AGENDA
President and Board of Trustees
Village of Arlington Heights
Board Room

Arlington Heights Village Hall
33 S. Arlington Heights Road
Arlington Heights, IL 60005
April 20, 2026
7:30 PM

I. CALL TO ORDER

II. PLEDGE OF ALLEGIANCE

III. ROLL CALL OF MEMBERS

IV. APPROVAL OF MINUTES

A. 4/6/26 Meeting Minutes

V. APPROVAL OF ACCOUNTS PAYABLE

A. 4/15/26 Warrant Register

VI. RECOGNITIONS AND COMMUNICATIONS

VII. PUBLIC HEARINGS

VIII. CITIZENS TO BE HEARD

Anyone wishing to speak on a subject not on the Agenda should fill out a card, located in the back of the room, and hand it to the Village Clerk. Please limit your comments to three minutes.

IX. CONSENT AGENDA

This Agenda consists of proposals and recommendations that, in the opinion of the Village Manager, will be acceptable to all members of the Board of Trustees. The purpose of this Agenda is to save time by taking only one roll call vote instead of separate votes on each item. Consideration of this Consent Agenda will be governed by the following rules and procedures prior to roll call vote:

1. Any Trustee who wishes to vote "no" or "pass" on any Consent Agenda items should so indicate.

2. Upon the request of any one Trustee, any item will be removed from the Consent Agenda and considered separately after adoption of the Consent Agenda.

3. Citizens in the audience may request that the Board remove any item from this Consent

Agenda for separate consideration after adoption of the Consent Agenda.

4. One roll call vote will be taken and will cover all remaining Consent Agenda items.

A. Boards and Commissions Reappointments

B. Resolution Approving the Award of a Contract for the Furnishing of LED Streetlight Fixtures

C. Resolution Approving a Contract for Regency Court Lift Station Reconstruction

D. Resolution Approving an Agreement for Professional Engineering Services for the Regency Court Lift Station Reconstruction

E. Resolution Approving a Contract Extension for Custodial Services of Municipal Buildings

F. Resolution Approving the Award of a Contract for Trenchless Rehabilitation and Maintenance of Pipeline Infrastructure

G. An Ordinance Granting A Special Use Permit for a Large Amusement Facility (81 W. Golf Road)

H. An Ordinance Rezoning Property to the R-3 One Family Dwelling District (1515 S. Douglas Avenue)

I. An Ordinance Granting Variations for a Residential Development (1515 S. Douplas Avenue)

J. A Resolution Approving a Preliminary Plat (1515 S. Douglas Avenue)

K. An Ordinance Granting Sign Variations (7 W. Dundee Road)

L. An Ordinance Amending the Annual Budget of the Village of Arlington Heights, County of Cook, State of Illinois, for the Fiscal Year Beginning January 1, 2025, and Ending December 31, 2025 - General Fund Surplus

M. An Ordinance Amending the Annual Budget of the Village of Arlington Heights, County of Cook, State of Illinois, for the Fiscal Year Beginning January 1, 2026 and Ending December 31, 2026 - United States' 250th Birthday Celebration Drone Light Show

X. NEW BUSINESS

A. Appointment of Robert Brodecki to the Housing Commission effective May 1, 2026, term ending April 30, 2029

B. Appointment of Richard Bondarowicz to the Design Commission effective May 1, 2026, term ending April 30, 2029

C. Appointment of Joe Footlik to the Zoning Board of Appeals effective May 1, 2026, term ending April 30, 2031

D. Appointment of David Hogaboom to the Zoning Board of Appeals effective May 1, 2026, term ending April 30, 2031

E. Presentation of the Village of Arlington Heights Sustainability Plan

XI. CLOSED SESSION

5 ILCS 120/2(c)(1): appointment, employment, compensation, discipline, performance or dismissal of specific employees of the public body or legal counsel

XII. ADJOURNMENT

The Village of Arlington Heights is committed to digital accessibility for all users. Persons with disabilities requiring auxiliary aids or services, such as an American Sign Language interpreter or written materials in accessible formats, should contact the Health & Human Services Department — located at 33 S. Arlington Heights Road, Arlington Heights, IL 60005 — at 847-368-5760 or ADA@vah.com.

MINUTES
President and Board of Trustees
Village of Arlington Heights
Board Room

Arlington Heights Village Hall
33 S. Arlington Heights Road
Arlington Heights, IL 60005
April 6, 2026
7:30 PM

I. CALL TO ORDER

II. PLEDGE OF ALLEGIANCE

III. ROLL CALL OF MEMBERS

President Tinaglia and the following Trustees responded to roll: James Bertucci, Colin Gilbert, Robin LaBedz, Bill Manganaro, Carina Santa Maria, Tom Schwingbeck, Greg Zyck. Trustee Wendy Dunnington was absent.
Also present were: Randy Recklaus, Emily Rodman, Rob Horne, Hart Passman, and Maggie Mattio.

IV. APPROVAL OF MINUTES

A. 3/16/26 Meeting Minutes

Trustee Schwingbeck moved to Approve. Trustee LaBedz Seconded the Motion.
The Motion: Passed
Ayes: Trustee Bertucci, Trustee Gilbert, Trustee LaBedz, Trustee Manganaro, Trustee Schwingbeck, President Tinaglia, Trustee Zyck
Nays: None
Abstain: Trustee Carina Santa Maria
Absent: Trustee Dunnington

B. 12/15/25 Closed Session Minutes

Trustee LaBedz moved to Approve. Trustee Zyck Seconded the Motion.
The Motion: Passed
Ayes: Trustee Bertucci, Trustee Gilbert, Trustee LaBedz, Trustee Manganaro, Trustee Santa Maria, Trustee Schwingbeck, President Tinaglia, Trustee Zyck
Nays: None
Absent: Trustee Dunnington

C. 1/20/26 Closed Session Minutes

Trustee LaBedz moved to Approve. Trustee Schwingbeck Seconded the Motion.
The Motion: Passed
Ayes: Trustee Bertucci, Trustee Gilbert, Trustee LaBedz, Trustee Manganaro, Trustee Santa Maria, Trustee Schwingbeck, President Tinaglia, Trustee Zyck
Nays: None
Absent: Trustee Dunnington

V. APPROVAL OF ACCOUNTS PAYABLE

A. 3/30/26 Warrant Register

Trustee Bertucci moved to Approve the Warrant Register dated 3/30/26 in the amount of $4,411,523.76. Trustee LaBedz Seconded the Motion.
The Motion: Passed
Ayes: Trustee Bertucci, Trustee Gilbert, Trustee LaBedz, Trustee Manganaro, Trustee Santa Maria, Trustee Schwingbeck, President Tinaglia, Trustee Zyck
Nays: None
Absent: Trustee Dunnington

VI. RECOGNITIONS AND COMMUNICATIONS

A. Community Consolidated School District 21 Health Center

Dr. Michael Connolly, Superintendent of Community Consolidated School District 21, announced the 2nd anniversary of their operating school-based health center. The center, which is staffed by medical personnel from Advocate Childrens Hospital, provides students and staff access to high quality medical and mental healthcare free of charge. Services offered include physical exams, immunizations, treatment of common illnesses, laboratory testing, and counseling sessions with a clinical therapist. The district also provides transportation from their schools to the center from 9AM to 2PM to help alleviate disruption during the school day. He provided some data on the number of patients treated and shared a successful impact story.

Dr. Connolly said the center was made possible in part by community support and grant funding from an anonymous family foundation and Congressman Brad Schneider. They plan to keep pursuing grant opportunities and organizing fundraising events. He encouraged everyone to take part in the golf outing fundraiser on June 17, 2026, at Chevy Chase Country Club, noting that they are looking for golfers, sponsors, and raffle item contributions.

Trustee LaBedz inquired whether the center bills insurance or receives any reimbursement from health insurers for its services. Dr. Connolly responded that all treatment offered by the center is entirely free, with no involvement from health insurance companies.

VII. PUBLIC HEARINGS

VIII. CITIZENS TO BE HEARD

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Resident Robert Schmidt suggested the installation of a traffic stop light at the intersection of Central and Dryden.

Resident Norbert Piotrowski questioned the outcome of the studies conducted thus far with regard to the redevelopment of the Arlington Park Racetrack. He suggested a referendum to allow the citizens of Arlington Heights to vote on whether they want the Chicago Bears in Arlington Heights.

Resident Richard Hamlin mentioned the flooding issues on Waterman between Michael Manor and Northwood Court. The water is supposed to flow from west to east but due to a low area, the water remains at a standstill. He made the Village aware of the issue last year and asked for assistance in fixing the problem.

Resident Ronald Stolberg suggested replacing lead pipes with stainless steel.

Resident Cheryl Brown offered to sit on the short-term rental task force should one be created.

Resident Andrij Sklierenko asked the Board to consider and approve a structured pilot program to regulate short-term rentals. He raised concern over the ordinance's thirty-day minimum stay, noting it may create greater risks due to tenant rights and potential disputes. Short-term rentals could increase local economic activity, support small businesses, generate tax revenue, and create local jobs. He proposed allowing a limited number of permits, annual registration, and occupant and parking limits and emphasized strong accountability measures such as no-party policies, quiet hours, local contact requirement, and enforcement through warnings, fines, and potential permit revocation.

Resident Devin Gray echoed Mr. Sklierenko's proposal and questioned the amount of crime occurring at short-term rentals compared to the hotels in town. He also mentioned the economic impact and the possibility of generating $200,000 in revenue should the Village implement the 5% hotel tax rate on short-term rentals.

Philip Atteberry brought attention to the sale of a substance called 7-OH in local gas stations and convenience stores. He said the substance is thirteen times more potent than morphine. He mentioned that he works with individuals trying to overcome opiod addiction and, through his line of work, has witnessed a 140% increase in the amount of patients seeking treatment for this substance. Mr. Atteberry urged the Village to ban the sale of 7-OH in local businesses.

IX. CONSENT AGENDA

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4. One roll call vote will be taken and will cover all remaining Consent Agenda items.

Trustee LaBedz moved to Approve Items A through L and N. Trustee Santa Maria Seconded the Motion.
The Motion: Passed
Ayes: Trustee Bertucci, Trustee Gilbert, Trustee LaBedz, Trustee Manganaro, Trustee Santa Maria, Trustee Schwingbeck, President Tinaglia, Trustee Zyck
Nays: None
Abstain: Trustee Zyck abstained from voting on item B
Absent: Trustee Dunnington

A. Bond Waiver — St Edna Parish

B. Appointment of Greg Zyck to the Building Code Review Board, term ending April 30, 2027

C. Approval for the Liquor Commissioner to issue one Class E license to SLICE II LLC dba GARIBALDI'S ARLINGTON HEIGHTS located at 1960 N. Arlington Heights Road, upon receipt of the executed lease and proof of ownership change

D. Resolution Concerning the Release of Certain Written Minutes and the Destruction of Verbatim Records of Certain Closed Meetings of the Village Board of Trustees

R2026-35

E. Ordinance Authorizing Reallocation of Unused Private Activity Bond Volume Cap Allocation

2026-08

F. Approval of an Ordinance Amending Article X — (Raffles) Bond Requirement

2026-09

G. Resolution to Approve Change Order 1 for the Purchase of 4 Braun Ambulances

R2026-36
A2026-24

H. Resolution Approving a Contract for 2026 Water Main Improvements

R2026-37
A2026-25

I. Resolution Approving an Agreement for the 2026 Water Main Project — Construction Observation Engineering

R2026-38
A2026-26

J. Resolution Approving a Contract for Asphalt Patching Services

R2026-39
A2026-27

K. Resolution Approving a Contract Extension for HVAC Preventative Maintenance

R2026-40
A2026-28

L. Resolution Approving a Contract for 2026 Street Resurfacing and Sidewalk Program

R2026-41
A2026-29

M. Resolution to Approve an Agreement ILETSB Camera Grant

Trustee Zyck removed this item from the consent agenda to highlight the Police Department's efforts and success in securing a grant in the amount of $317,092.51 to cover a portion of the cost for the body-worn camera and dash cam unfunded state mandate. He said it demonstrated the Village's fiscal responsibility and efforts to reduce taxpayer burden.

Trustee Zyck moved to Approve. Trustee Manganaro Seconded the Motion.
The Motion: Passed
Ayes: Trustee Bertucci, Trustee Gilbert, Trustee LaBedz, Trustee Manganaro, Trustee Santa Maria, Trustee Schwingbeck, President Tinaglia, Trustee Zyck
Nays: None
Absent: Trustee Dunnington

R2026-42
A2026-30

N. Appointment of Chairperson to the Arlington Economic Alliance

X. NEW BUSINESS

A. Appointment of Vaishak Mittur to the Arlington Economic Alliance, term ending April 30, 2029

Trustee LaBedz moved to Concur in the Mayor's Appointment. Trustee Bertucci Seconded the Motion.
The Motion: Passed
Ayes: Trustee Bertucci, Trustee Gilbert, Trustee LaBedz, Trustee Manganaro, Trustee Santa Maria, Trustee Schwingbeck, President Tinaglia, Trustee Zyck
Nays: None
Absent: Trustee Dunnington

President Tinaglia administered the Oath of Office to Mr. Mittur.

B. Appointment of Martin Bauer to the Housing Commission, term ending April 30, 2027

Trustee Bertucci moved to Concur in the Mayor's Appointment. Trustee LaBedz Seconded the Motion.
The Motion: Passed
Ayes: Trustee Bertucci, Trustee Gilbert, Trustee LaBedz, Trustee Schwingbeck, President Tinaglia, Trustee Zyck
Nays: Trustee Manganaro, Trustee Santa Maria
Absent: Trustee Dunnington

President Tinaglia administered the Oath of Office to Mr. Bauer.

C. 1515 S. Douglas Ave. - M. Serafin Subdivision - PC#25-002
Rezoning and Preliminary Plat with Variations

Ms. Rodman said the Petitioner, Marek Serafin, was seeking rezoning, approval of a preliminary plat of subdivision, and two variances for the M. Serafin Subdivision. Mr. Serafin proposed rezoning the property from R-1 One Family Dwelling District to R-3 One Family Dwelling District to divide the 38,500 square foot property into three separate lots. The northernmost lot would accommodate the construction of a new single-family home, the middle lot would retain the existing home, and the southernmost lot would be dedicated to an onsite stormwater detention lot. Rezoning the property to R-3 would require two variations; one from Chapter 28, 5.1-302 and the other from Chapter 29, Section 29-307(a)(3) to permit a 60 ft. lot width where 70 ft. is required. Mr. Serafin also proposed additions to the existing home, which would require a separate review through the Design Commission and building permits. The proposed development would be required to comply with all Village and Metropolitan Water Reclamation District (MWRD) stormwater regulations, pay a fee-in-lieu of the stormwater storage deficiency, and complete right-of-way improvements to include a sidewalk, curb, gutter, and parkway landscaping on the east side of Douglas Avenue.

The Staff Development Committee reviewed the proposed Preliminary Plat of Subdivision with variations and recommended approval of the application subject to the conditions noted in their report.

Several residents attended the Plan Commission meeting and commented on the proposed landscaping for the basin. It was suggested that the basin have a dry bottom with sod for easy maintenance versus natural plants. However, the design and landscaping is subject to MWRD requirements and regulations. The basin would be constructed by the developer, and maintained by the Village's Public Works Department.

Trustee LaBedz moved to Direct Staff and the Village Attorney to prepare final documents granting the zoning relief for consideration at a future Board meeting for PC25-002, a Preliminary Plat of Subdivision for two residential lots and one dedicated stormwater detention lot and the zoning variances requested, and subject to the recommended conditions, all as set forth in the agenda materials for tonight's Board Meeting. Trustee Schwingbeck Seconded the Motion.
The Motion: Passed
Ayes: Trustee Bertucci, Trustee Gilbert, Trustee LaBedz, Trustee Manganaro, Trustee Santa Maria, Trustee Schwingbeck, President Tinaglia, Trustee Zyck
Nays: None
Absent: Trustee Dunnington

D. 81 W. Golf Rd. - Bish House - PC #26-003
Special Use Permit

The petitioner was before the Board seeking a Special Use Permit to permit an Amusement Facility, Large in the B-2 General Business District. The proposed amusement facility, called Bish House, would offer computer gaming stations and billard tables for rent to customers aged eighteen and older. There would be no food and drinks served, except for the sale of pre-packaged snacks and non-alcoholic beverages. The Staff Development Committee reviewed the proposed Special Use Permit and recommended approval subject to the conditions set forth in their report.

Trustee Gilbert asked if younger children would be allowed to play pool if accompanied by a parent and if the computer area is separate from the billiard tables. He inquired about potential sensitive or illicit computer content if minors were present. The Petitioner clarified that the facility is geared towards those aged eighteen and older and while there are dividing walls between the computers and the billiard tables, computer content is restricted to games only.

Trustee LaBedz moved to Direct Staff and the Village Attorney to prepare final documents granting the zoning relief for consideration at a future Board meeting for PC26-003, a Special Use Permit for an Amusement Facility, Large in the B-2 General Business District, and subject to the recommended conditions, all as set forth in the agenda materials for tonight's Board Meeting. Trustee Zyck Seconded the Motion.
The Motion: Passed
Ayes: Trustee Bertucci, Trustee Gilbert, Trustee LaBedz, Trustee Manganaro, Trustee Santa Maria, Trustee Schwingbeck, President Tinaglia, Trustee Zyck
Nays: None
Absent: Trustee Dunnington

XI. CLOSED SESSION

5 ILCS 120/2(c)(11): litigation, when an action against, affecting or on behalf of the Village has been filed and is pending before a court or administrative tribunal, or when the Board finds that an action is probable or imminent

Trustee Zyck moved to enter into Closed Session at 9:14PM. Trustee Manganaro Seconded the Motion.
The Motion: Passed
Ayes: Trustee Bertucci, Trustee Gilbert, Trustee LaBedz, Trustee Manganaro, Trustee Santa Maria, Trustee Schwingbeck, President Tinaglia, Trustee Zyck
Nays: None
Absent: Trustee Dunnington

XII. ADJOURNMENT

Trustee LaBedz moved to Adjourn from Closed Session at 10:26PM. Trustee Schwingbeck Seconded the Motion.
The Motion: Passed
Ayes: Trustee Bertucci, Trustee Gilbert, Trustee LaBedz, Trustee Manganaro, Trustee Santa Maria, Trustee Schwingbeck, President Tinaglia, Trustee Zyck
Nays: None
Absent: Trustee Dunnington

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VILLAGE OF ARLINGTON HEIGHTS

WARRANT REGISTER FOR CHECK DATE: 4/15/2026

Fund	Fund Description	Total Transaction Amount
101	GENERAL FUND	$332,688.84
227	FOREIGN FIRE INS TAX FUND	$463.87
231	CRIMINAL INVESTIGATION FD	$8,044.44
235	MUNICIPAL PARKG OPR FUND	$20,332.52
264	TIF V	$1,000,000.00
267	SOUTH ARL HTS RD TIF	$4,803.12
401	CAPITAL PROJECTS FUND	$161,125.75
426	STORM WATER CONTROL FUND	$143,254.34
505	WATER AND SEWER FUND	$2,015,183.21
515	ARTS ENTERT & EVENTS FUND	$92,543.21
605	HEALTH INSURANCE FUND	$918,382.47
615	WORKERS COMPENSATION INS	$7,544.00
621	FLEET OPERATIONS FUND	$31,406.16
625	TECHNOLOGY FUND	$48,509.13
715	GUARANTY DEPOSITS FUND	$5,600.00
	TOTAL ALL FUNDS	**$4,789,881.06**

VILLAGE OF ARLINGTON HEIGHTS
WARRANT REGISTER
CHECK DATE: 4/15/2026

CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
Department 0000	**NON DEPARTMENTAL**				
316495	101-0000-140500-	MURNANE PAPER CO	OFFICE SUPPLIES PAPER	$465.00	**$465.00**
316506	101-0000-433140-	RMS	AMBULANCE REFUND	$1,500.00	**$1,500.00**
316507	715-0000-220930-	BRIAN LANDWEHR	BOND REFUND-REC-017492-2026	$200.00	**$200.00**
316508	715-0000-220930-	Danette Meyer	BOND REFUND-REC-018258-2026	$200.00	**$900.00**
316508	715-0000-220930-	Danette Meyer	BOND REFUND-REC-018258-2026	$200.00	
316508	715-0000-220930-	Danette Meyer	BOND REFUND-REC-018258-2026	$500.00	
316509	715-0000-220930-	DUBOIS PAVING CO	BOND REFUND-REC-018259-2026	$200.00	**$200.00**
316510	715-0000-220930-	DUBOIS PAVING CO	BOND REFUND-REC-018260-2026	$500.00	**$500.00**
316511	715-0000-220930-	DUBOIS PAVING CO	BOND REFUND-REC-018262-2026	$200.00	**$200.00**
316512	715-0000-220930-	DUBOIS PAVING CO	BOND REFUND-REC-018265-2026	$200.00	**$200.00**
316513	715-0000-220930-	DUBOIS PAVING CO	BOND REFUND-REC-018266-2026	$200.00	**$200.00**
316514	715-0000-220930-	DUBOIS PAVING CO	BOND REFUND-REC-018267-2026	$200.00	**$200.00**

VILLAGE OF ARLINGTON HEIGHTS
WARRANT REGISTER
CHECK DATE: 4/15/2026

CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
316515	715-0000-220930-	DUBOIS PAVING CO	BOND REFUND-REC-018269-2026	$200.00	
316516	715-0000-220930-	DUBOIS PAVING CO	BOND REFUND-REC-018270-2026	$200.00	**$200.00**
316517	715-0000-220930-	DUBOIS PAVING CO	BOND REFUND-REC-018271-2026	$200.00	**$200.00**
316518	715-0000-220930-	DUBOIS PAVING CO	BOND REFUND-REC-018272-2026	$200.00	**$200.00**
316519	715-0000-220930-	DUBOIS PAVING CO	BOND REFUND-REC-018273-2026	$200.00	**$200.00**
316520	715-0000-220930-	DUBOIS PAVING CO	BOND REFUND-REC-018274-2026	$200.00	**$200.00**
316521	715-0000-220930-	DUBOIS PAVING CO	BOND REFUND-REC-018275-2026	$200.00	**$200.00**
316522	715-0000-220930-	DUBOIS PAVING CO	BOND REFUND-REC-018276-2026	$200.00	**$200.00**
316523	715-0000-220930-	DUBOIS PAVING CO	BOND REFUND-REC-018277-2026	$200.00	**$200.00**
316524	715-0000-220930-	DUBOIS PAVING CO	BOND REFUND-REC-018278-2026	$200.00	**$200.00**
316525	715-0000-220930-	DUBOIS PAVING CO	BOND REFUND-REC-018279-2026	$200.00	**$200.00**
316526	715-0000-220930-	DUBOIS PAVING CO	BOND REFUND-REC-018280-2026	$200.00	**$200.00**
316527	715-0000-220930-	DUBOIS PAVING CO	BOND REFUND-REC-018281-2026	$200.00	**$200.00**

VILLAGE OF ARLINGTON HEIGHTS
WARRANT REGISTER
CHECK DATE: 4/15/2026

CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
316528	715-0000-220930-	DUBOIS PAVING CO	BOND REFUND-REC-018282-2026	$200.00	**$200.00**
316529	715-0000-220930-	DUBOIS PAVING CO	BOND REFUND-REC-018283-2026	$200.00	**$200.00**
316530	101-0000-200300-	CAMPBELL, CHRISTIAN	WATER REFUND	$123.28	**$123.28**
316531	505-0000-452420-	WOLF, RONA	WATER REFUND	$292.30	**$292.30**
902819	101-0000-211070-	METLIFE LEGAL PLANS, INC	LEGAL PLANS APRIL 2026	$39.00	
902819	101-0000-211070-	METLIFE LEGAL PLANS, INC	LEGAL PLANS APRIL 2026	$273.00	
902819	101-0000-211070-	METLIFE LEGAL PLANS, INC	LEGAL PLANS APRIL 2026	$1,326.00	**$1,638.00**
902821	101-0000-211060-	VISION SERVICE PLAN	VISION INSURANCE APRIL 2026	$1,816.60	
902821	101-0000-211060-	VISION SERVICE PLAN	VISION INSURANCE APRIL 2026	$5,230.84	**$7,047.44**
902822	101-0000-210910-	EMPLOYEE BENEFITS CORP	HEALTH/DEPENDENT CARE FSA	$1,234.77	
902822	101-0000-210910-	EMPLOYEE BENEFITS CORP	HEALTH/DEPENDENT CARE FSA	$6,705.07	
902822	101-0000-210930-	EMPLOYEE BENEFITS CORP	HEALTH/DEPENDENT CARE FSA	$1,355.99	**$9,295.83**
902824	101-0000-210910-	EMPLOYEE BENEFITS CORP	HEALTH/DEPENDENT CARE FSA	$8,717.70	**$8,717.70**
902829	101-0000-210910-	EMPLOYEE BENEFITS CORP	HEALTH/DEPENDENT CARE FSA	$7,795.45	
902829	101-0000-210930-	EMPLOYEE BENEFITS CORP	HEALTH/DEPENDENT CARE FSA	$1,286.55	**$9,082.00**
			DEPARTMENT 0000 TOTAL:	$43,761.55	

VILLAGE OF ARLINGTON HEIGHTS

WARRANT REGISTER

CHECK DATE: 4/15/2026

CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
Department 0101	**BOARD OF TRUSTEES ADMIN**				
316437	101-0101-521650-	CAPTION FIRST INC	PROFESSIONAL SERVICES	$318.00	**$318.00**
316494	101-0101-522020-	MORRISON ASSOCIATES LTD	PROFESSIONAL SERVICES	$1,500.00	**$1,500.00**
316569	101-0101-522700-	VERIZON WIRELESS	ACCT 88534852600001	$39.39	**$39.39**
			DEPARTMENT 0101 TOTAL:	$1,857.39	

VILLAGE OF ARLINGTON HEIGHTS
WARRANT REGISTER
CHECK DATE: 4/15/2026

CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
Department 0201	**INTEGRATED SERVICES ADMIN**				
316428	101-0201-522700-	AT & T MOBILITY	ACCT 232106787838	$100.00	**$100.00**
316480	401-0201-520050-	MAC STRATEGIES GROUP INC	PROFESSIONAL SERVICES	$10,000.00	**$10,000.00**
316569	101-0201-522700-	VERIZON WIRELESS	ACCT 88534852600001	$118.82	**$118.82**
			DEPARTMENT 0201 TOTAL:	$10,218.82	

VILLAGE OF ARLINGTON HEIGHTS

WARRANT REGISTER

CHECK DATE: 4/15/2026

CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
Department 0301	**HUMAN RESOURCES ADMIN**				
					$8,573.75
316442	101-0301-520200-	CLARK BAIRD SMITH LLP	PROFESSIONAL SERVICES	$8,573.75	
					$376,334.79
902820	605-0301-520600-	HMO ILLINOIS	APRIL 2026 PREMIUM	$376,334.79	
					$7,544.00
902825	615-0301-542750-	GALLAGHER BASSETT SERVICES INC	GENERAL LIAB INVOICE PREFUND	$7,544.00	
					$378,838.82
902827	605-0301-542750-	BLUE CROSS BLUE SHIELD OF ILLINOIS	MEDICAL/DENTAL 3/16-3/31	$343,871.01	
902827	605-0301-542770-	BLUE CROSS BLUE SHIELD OF ILLINOIS	MEDICAL/DENTAL 3/16-3/31	$34,967.81	
					$163,208.86
902828	605-0301-520550-	BLUE CROSS BLUE SHIELD OF ILLINOIS	ADMIN FEES	$163,208.86	
			DEPARTMENT 0301 TOTAL:	$934,500.22	

VILLAGE OF ARLINGTON HEIGHTS
WARRANT REGISTER
CHECK DATE: 4/15/2026

CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
Department 0501	**FINANCE ADMIN**				
316453	101-0501-522010-	DAILY HERALD MEDIA GROUP	ADVERTISING	$121.50	**$121.50**
316535	101-0501-530050-	PETTY CASH	KITCHEN SUPPLIES	$93.96	**$93.96**
316545	505-0501-522100-	SEBIS DIRECT INC	PRINTING SERVICES	$1,147.11	**$1,147.11**
316546	101-0501-520050-	SIKICH CPA LLC	PROFESSIONAL SERVICES	$15,000.00	**$15,000.00**
316565	101-0501-522700-	VERIZON WIRELESS	ACCT 38508581800001	$39.39	**$39.39**
			DEPARTMENT 0501 TOTAL:	$16,401.96	

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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
Department 0601	**INFORMATION TECHNOLOGY ADMIN**				
316421	625-0601-530050-	AMAZON COM CAPITAL SERVICES	OFFICE SUPPLIES	$32.94	**$32.94**
316450	625-0601-522700-	COMCAST PROCESSING CENTER	ACCT 907065060	$3,908.95	**$3,908.95**
316560	625-0601-520390-	VELOSIMO, INC	SOFTWARE	$25,992.04	**$25,992.04**
316562	625-0601-522700-	VERIZON WIRELESS	ACCT 6139353548	$1,952.85	**$1,952.85**
902826	625-0601-520050-	MUNICIPAL GIS PARTNERS INC	GIS SERVICES	$16,622.35	**$16,622.35**
			DEPARTMENT 0601 TOTAL:	$48,509.13	

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Department 1018	**BOARDS & COMM SPECIAL EVENTS**				
					$695.00
316463	515-1018-540550-	GLOWBY THE BUBBLER	SWING INTO SPRING SERVICES	$695.00	
					$449.85
316471	101-1018-540550-	JAMIESON, DIANE	HEARTS OF GOLD SUPPLIES	$449.85	
					$1,921.47
316474	101-1018-540550-	JIM COLEMAN LTD	HEARTS OF GOLD SUPPLIES	$1,921.47	
			DEPARTMENT 1018 TOTAL:	$3,066.32	

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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
Department 2005	**SPECIAL EVENTS METROPOLIS THTR**				
					$67,413.84
316439	515-2005-550550-	CDW GOVERNMENT INC	METROPOLIS EQUIPMENT	$67,413.84	
					$9,426.87
316488	515-2005-550550-	MG MECHANICAL CONTRACTING LLC	SERVICE BUILDING MAINTENANCE	$3,890.92	
316488	515-2005-550550-	MG MECHANICAL CONTRACTING LLC	SERVICE BUILDING MAINTENANCE	$5,535.95	
			DEPARTMENT 2005 TOTAL:	$76,840.71	

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Department 3001	**POLICE DEPT ADMIN**				
316420	101-3001-521650-	ACCURATE DOCUMENT DESTRUCTION	SHREDDING SERVICES	$833.82	**$833.82**
316421	101-3001-530050-	AMAZON COM CAPITAL SERVICES	OFFICE SUPPLIES	$45.90	**$93.40**
316421	101-3001-530050-	AMAZON COM CAPITAL SERVICES	OFFICE SUPPLIES	$47.50	
316426	101-3001-518030-	ARLINGTON HTS SCHOOL DIST 25	CROSSING GUARD REIMBURSEMENT	$20,512.80	**$20,512.80**
316429	101-3001-522700-	AT&T MOBILITY NATIONAL ACCOUNTS LLC	ACCT 287328367893	$5,850.33	**$5,850.33**
316430	101-3001-522700-	AT&T MOBILITY NATIONAL ACCOUNTS LLC	ACCT 287328367893	$5,333.70	**$5,333.70**
316433	101-3001-521651-	BRIGHTSIDE RECOVERY, LTD.	CARE GRANT	$9,440.00	**$9,440.00**
316438	101-3001-533050-	CDS OFFICE TECHNOLOGIES	EQUIPMENT	$3,425.00	**$3,425.00**
316451	101-3001-521650-	COMPASSION FUNERAL SERVICES INC	PROFESSIONAL SERVICES	$275.00	**$1,010.00**
316451	101-3001-521650-	COMPASSION FUNERAL SERVICES INC	PROFESSIONAL SERVICES	$320.00	
316451	101-3001-521650-	COMPASSION FUNERAL SERVICES INC	PROFESSIONAL SERVICES	$415.00	
316460	101-3001-520150-	ERNEST R BLOMQUIST PC	PROFESSIONAL SERVICES	$4,170.00	**$4,170.00**
					$921.50

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316464	101-3001-521650-	GOLF ROSE PET LODGE	PROFESSIONAL SERVICES	$921.50	
					$2,739.00
316467	101-3001-521655-	IDI	SOFTWARE	$125.00	
316467	101-3001-521655-	IDI	SOFTWARE	$125.00	
316467	101-3001-521655-	IDI	SOFTWARE	$125.00	
316467	101-3001-521655-	IDI	SOFTWARE	$125.00	
316467	101-3001-521655-	IDI	SOFTWARE	$250.00	
316467	101-3001-521655-	IDI	SOFTWARE	$390.50	
316467	101-3001-521655-	IDI	SOFTWARE	$397.00	
316467	101-3001-521655-	IDI	SOFTWARE	$397.50	
316467	101-3001-521655-	IDI	SOFTWARE	$398.50	
316467	101-3001-521655-	IDI	SOFTWARE	$405.50	
					$164.22
316470	101-3001-530350-	BRANDING TOUCHPOINT / IPROMOTE U	UNIFORMS	$164.22	
					$995.00
316473	101-3001-521651-	JG UNIFORMS	UNIFORMS	$497.50	
316473	101-3001-533250-	JG UNIFORMS	UNIFORMS	$497.50	
					$254.73
316475	101-3001-522150-	KONICA MINOLTA BUSINESS USA	OFFICE MACHINES & ACCESS	$38.72	
316475	101-3001-522150-	KONICA MINOLTA BUSINESS USA	OFFICE MACHINES & ACCESS	$72.54	
316475	101-3001-522150-	KONICA MINOLTA BUSINESS USA	OFFICE MACHINES & ACCESS	$143.47	
					$48,168.71
316501	101-3001-520370-	NORTHWEST CENTRAL DISPATCH SYSTEM	MEMBER ASSESSMENT	$48,168.71	
					$25.06

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316504	101-3001-530050-	ODP BUSINESS SOLUTIONS	OFFICE SUPPLIES	$25.06	
					$8,181.50
316539	101-3001-530350-	RAY O'HERRON	UNIFORMS	$306.96	
316539	101-3001-530350-	RAY O'HERRON	UNIFORMS	$322.97	
316539	101-3001-530350-	RAY O'HERRON	UNIFORMS	$523.83	
316539	101-3001-530350-	RAY O'HERRON	UNIFORMS	$1,066.60	
316539	101-3001-530350-	RAY O'HERRON	UNIFORMS	$1,172.59	
316539	101-3001-533250-	RAY O'HERRON	POLICE SUPPLIES	$4,788.55	
					$124.08
316547	101-3001-533250-	SIRCHIE ACQUISITION COMPANY LLC	POLICE SUPPLIES	$124.08	
					$450.00
316551	101-3001-522100-	SUMMIT PRINT SOLUTIONS	PRINTING SERVICES	$450.00	
					$576.80
316556	235-3001-522100-	TOTAL PRINT SOLUTIONS	PRINTING SERVICES	$576.80	
					$262.03
316571	101-3001-522700-	VERIZON WIRELESS	ACCT 68682493000001	$262.03	
			DEPARTMENT 3001 TOTAL:	$113,531.68	

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Department 3003	**POLICE DEPT CRIMINAL INVEST**				
316441	231-3003-540110-	CITIZEN OBSERVER LLC	SOFTWARE	$7,740.00	**$7,740.00**
316534	231-3003-540010-	PET PROS	K9 SUPPLIES	$168.44	**$168.44**
316555	231-3003-540010-	TOPS IN DOG TRAINING CORP	K9 SERVICES	$136.00	**$136.00**
			DEPARTMENT 3003 TOTAL:	$8,044.44	

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Department 3501	**FIRE ADMIN**				
					$178.86
316421	101-3501-521110-	AMAZON COM CAPITAL SERVICES	BUILDING MAINTENANCE SUPPLY	$78.00	
316421	101-3501-521110-	AMAZON COM CAPITAL SERVICES	JANITORIAL SUPPLIES	$100.86	
					$40.51
316436	101-3501-522150-	CANON U.S.A. INC	OFFICE MACHINES & ACCESS	$15.97	
316436	101-3501-522150-	CANON U.S.A. INC	OFFICE MACHINES & ACCESS	$24.54	
					$20,876.31
316455	401-3501-550150-	DIVE RESCE INTERNATIONAL	DIVING EQUIPMENT	$20,876.31	
					$95.00
316496	101-3501-522020-	NAEMSE	DUES	$95.00	
					$1,100.00
316500	101-3501-522030-	NORTHEASTERN IL PUBLIC SAFETY	TRAVEL AND TRAINING	$1,100.00	
					$16,056.23
316501	101-3501-520370-	NORTHWEST CENTRAL DISPATCH SYSTEM	MEMBER ASSESSMENT	$16,056.23	
					$6,765.00
316502	101-3501-521160-	NORTHWEST COMMUNITY HOSP	PROFESSIONAL SERVICES	$6,765.00	
					$1,530.35
316533	101-3501-533500-	PENNCARE	MEDICAL SUPPLIES	$1,530.35	
					$8,000.00
316541	101-3501-522030-	ROMEOVILLE FIRE DEPARTMENT	TRAINING	$8,000.00	
					$3,301.15
316554	101-3501-530350-	TODAY'S UNIFORMS	UNIFORMS AND RELATED ITEMS	$35.95	
316554	101-3501-530350-	TODAY'S UNIFORMS	UNIFORMS AND RELATED ITEMS	$56.95	

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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
316554	101-3501-530350-	TODAY'S UNIFORMS	UNIFORMS AND RELATED ITEMS	$56.95	
316554	101-3501-530350-	TODAY'S UNIFORMS	UNIFORMS AND RELATED ITEMS	$61.95	
316554	101-3501-530350-	TODAY'S UNIFORMS	UNIFORMS AND RELATED ITEMS	$62.95	
316554	101-3501-530350-	TODAY'S UNIFORMS	UNIFORMS AND RELATED ITEMS	$65.95	
316554	101-3501-530350-	TODAY'S UNIFORMS	UNIFORMS AND RELATED ITEMS	$74.95	
316554	101-3501-530350-	TODAY'S UNIFORMS	UNIFORMS AND RELATED ITEMS	$74.95	
316554	101-3501-530350-	TODAY'S UNIFORMS	UNIFORMS AND RELATED ITEMS	$74.95	
316554	101-3501-530350-	TODAY'S UNIFORMS	UNIFORMS AND RELATED ITEMS	$74.95	
316554	101-3501-530350-	TODAY'S UNIFORMS	UNIFORMS AND RELATED ITEMS	$84.95	
316554	101-3501-530350-	TODAY'S UNIFORMS	UNIFORMS AND RELATED ITEMS	$99.95	
316554	101-3501-530350-	TODAY'S UNIFORMS	UNIFORMS AND RELATED ITEMS	$99.95	
316554	101-3501-530350-	TODAY'S UNIFORMS	UNIFORMS AND RELATED ITEMS	$109.95	
316554	101-3501-530350-	TODAY'S UNIFORMS	UNIFORMS AND RELATED ITEMS	$119.95	
316554	101-3501-530350-	TODAY'S UNIFORMS	UNIFORMS AND RELATED ITEMS	$119.95	
316554	101-3501-530350-	TODAY'S UNIFORMS	UNIFORMS AND RELATED ITEMS	$119.95	
316554	101-3501-530350-	TODAY'S UNIFORMS	UNIFORMS AND RELATED ITEMS	$119.95	
316554	101-3501-530350-	TODAY'S UNIFORMS	UNIFORMS AND RELATED ITEMS	$119.95	
316554	101-3501-530350-	TODAY'S UNIFORMS	UNIFORMS AND RELATED ITEMS	$124.90	
316554	101-3501-530350-	TODAY'S UNIFORMS	UNIFORMS AND RELATED ITEMS	$145.90	
316554	101-3501-530350-	TODAY'S UNIFORMS	UNIFORMS AND RELATED ITEMS	$145.95	
316554	101-3501-530350-	TODAY'S UNIFORMS	UNIFORMS AND RELATED ITEMS	$149.90	
316554	101-3501-530350-	TODAY'S UNIFORMS	UNIFORMS AND RELATED ITEMS	$149.90	
316554	101-3501-530350-	TODAY'S UNIFORMS	UNIFORMS AND RELATED ITEMS	$164.90	
316554	101-3501-530350-	TODAY'S UNIFORMS	UNIFORMS AND RELATED ITEMS	$784.65	
					$1,063.51

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316568	101-3501-521160-	VERIZON WIRELESS	ACCT 44205897800001	$300.30	
316568	101-3501-522700-	VERIZON WIRELESS	ACCT 44205897800001	$763.21	
			DEPARTMENT 3501 TOTAL:	$59,006.92	

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Department 3701	**FOREIGN FIRE INSURANCE ADMIN**				
					$335.52
316421	227-3701-550150-	AMAZON COM CAPITAL SERVICES	KITCHEN SUPPLIES	$154.54	
316421	227-3701-550150-	AMAZON COM CAPITAL SERVICES	KITCHEN SUPPLIES	$180.98	
					$128.35
316486	227-3701-522030-	MERKAU, CHRISTIAN	TUITION REIMBURSEMENT	$128.35	
			DEPARTMENT 3701 TOTAL:	$463.87	

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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
Department 4001	**PLANNING PLANNING**				
316436	101-4001-522150-	CANON U.S.A. INC	OFFICE MACHINES & ACCESS	$17.69	**$17.69**
316453	101-4001-522010-	DAILY HERALD MEDIA GROUP	ADVERTISING	$1,263.60	**$1,263.60**
316476	101-4001-521650-	LEGRAND REPORTING & VIDEO SERVICES	PROFESSIONAL SERVICES	$251.50	**$251.50**
316489	101-4001-520050-	MICROSYSTEMS	PROFESSIONAL SERVICES	$901.53	**$901.53**
316494	101-4001-522030-	MORRISON ASSOCIATES LTD	TRAINING	$1,500.00	**$1,500.00**
316540	267-4001-550250-	RJN GROUP INC	PROFESSIONAL SERVICES	$4,803.12	**$4,803.12**
902818	264-4001-540865-	COOK COUNTY TREASURER	TIF 5 SURPLUS DISTRIBUTION	$1,000,000.00	**$1,000,000.00**
			DEPARTMENT 4001 TOTAL:	$1,008,737.44	

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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
Department 4501	**BUILDING ADMIN**				
					$221.15
316421	101-4501-522030-	AMAZON COM CAPITAL SERVICES	TRAINING	$171.81	
316421	101-4501-530050-	AMAZON COM CAPITAL SERVICES	OFFICE SUPPLIES	$49.34	
					$190.00
316459	101-4501-520050-	ELEVATOR INSPECTION SERVICE COMPANY LLC	PROFESSIONAL SERVICES	$40.00	
316459	101-4501-520050-	ELEVATOR INSPECTION SERVICE COMPANY LLC	PROFESSIONAL SERVICES	$150.00	
					$165.70
316566	101-4501-522700-	VERIZON WIRELESS	ACCT 54209747800002	$165.70	
					$512.07
316567	101-4501-522700-	VERIZON WIRELESS	ACCT 54209747800001	$512.07	
			DEPARTMENT 4501 TOTAL:	$1,088.92	

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Department 7001	**HEALTH ADMIN**				
					$30.99
316421	101-7001-530050-	AMAZON COM CAPITAL SERVICES	OFFICE SUPPLIES	$30.99	
					$918.00
316425	101-7001-520250-	ARLINGTON CENTER FOR RECOVERY	COUNSELING SUBSIDY	$120.00	
316425	101-7001-520250-	ARLINGTON CENTER FOR RECOVERY	COUNSELING SUBSIDY	$798.00	
					$98.55
316483	101-7001-533100-	MC KESSON MEDICAL SURGICAL	CLINIC SUPPLIES	$98.55	
					$158.52
316561	101-7001-522700-	VERIZON WIRELESS	ACCT 88556712200001	$158.52	
			DEPARTMENT 7001 TOTAL:	$1,206.06	

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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
Department 7007	**HEALTH SENIOR SERVICES**				
316422	101-7007-522400-	AMERICAN TAXI	TAXI SUBSIDY	$165.00	**$165.00**
316436	101-7007-522150-	CANON U.S.A. INC	OFFICE MACHINES & ACCESS	$58.98	**$58.98**
			DEPARTMENT 7007 TOTAL:	$223.98	

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Department 7101	**PUBLIC WORKS ADMIN**				
					$1,876.36
316419	101-7101-521020-	ABT ELECTRONICS	EQUIPMENT MAINTENANCE	$365.36	
316419	101-7101-531550-	ABT ELECTRONICS	BUILDING MAINTENANCE SUPPLY	$1,511.00	
					$1,981.30
316421	101-7101-530010-	AMAZON COM CAPITAL SERVICES	PUBLICATIONS	$54.57	
316421	101-7101-530050-	AMAZON COM CAPITAL SERVICES	MISCELLANEOUS SUPPLIES	$34.99	
316421	101-7101-531650-	AMAZON COM CAPITAL SERVICES	EQUIPMENT	$442.00	
316421	101-7101-531650-	AMAZON COM CAPITAL SERVICES	MISCELLANEOUS SUPPLIES	$1,090.00	
316421	101-7101-531850-	AMAZON COM CAPITAL SERVICES	SMALL TOOLS	$59.98	
316421	401-7101-550200-	AMAZON COM CAPITAL SERVICES	BUILDING MAINTENANCE SUPPLY	$59.95	
316421	401-7101-550200-	AMAZON COM CAPITAL SERVICES	BUILDING MAINTENANCE SUPPLY	$82.96	
316421	401-7101-550200-	AMAZON COM CAPITAL SERVICES	BUILDING MAINTENANCE SUPPLY	$156.85	
					$257.40
316423	101-7101-522030-	ANDREW LEWAND	TRAVEL AND TRAINING	$257.40	
					$2,151.00
316427	101-7101-522700-	AT & T	ACCT 217S667106106	$2,151.00	
					$24,000.00
316432	426-7101-550250-	BAXTER & WOODMAN	PROFESSIONAL SERVICES	$24,000.00	
					$7,529.25
316434	101-7101-531900-	BUILDERS ASPHALT LLC	STREET SUPPLIES	$7,529.25	
					$246.19
316436	101-7101-522150-	CANON U.S.A. INC	OFFICE MACHINES & ACCESS	$7.40	
316436	101-7101-522150-	CANON U.S.A. INC	OFFICE MACHINES & ACCESS	$11.36	
316436	101-7101-522150-	CANON U.S.A. INC	OFFICE MACHINES & ACCESS	$92.77	

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316436	101-7101-522150-	CANON U.S.A. INC	OFFICE MACHINES & ACCESS	$134.66	
316440	401-7101-550300-	CHRISTOPHER B BURKE LTD	PROFESSIONAL SERVICES	$6,389.38	**$6,389.38**
316443	101-7101-522700-	COMCAST CABLE	ACCT 8771100720049004	$42.80	**$42.80**
316445	101-7101-522700-	COMCAST CABLE	ACCT 8771100721360921	$208.65	**$208.65**
316447	101-7101-522700-	COMCAST CABLE	ACCT 8771100720901436	$77.16	**$77.16**
316449	101-7101-522700-	COMCAST CABLE	ACCT 8771100720048998	$32.10	**$32.10**
316452	426-7101-550250-	D'LAND CONSTRUCTION LLC	CONSTRUCTION SERVICES	$119,254.34	**$119,254.34**
316456	401-7101-550300-	DOLAND ENGINEERING, LLC	PROFESSIONAL SERVICES	$1,638.00	**$44,545.50**
316456	401-7101-550300-	DOLAND ENGINEERING, LLC	PROFESSIONAL SERVICES	$42,907.50	
316457	101-7101-531650-	EDUCATION & OUTREACH COMPANY	MISCELLANEOUS SUPPLIES	$783.00	**$783.00**
316461	401-7101-550200-	FUTURITY 19, INC	SERVICE BUILDING MAINTENANCE	$4,415.00	**$4,415.00**
316462	101-7101-521020-	GENCOMM	EQUIPMENT MAINTENANCE	$1,105.00	**$1,105.00**
316465	101-7101-531450-	GRAINGER W W INC	JANITORIAL SUPPLIES	$221.30	**$3,412.41**
316465	101-7101-531550-	GRAINGER W W INC	BUILDING MAINTENANCE SUPPLY	$240.68	

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316465	101-7101-531550-	GRAINGER W W INC	BUILDING MAINTENANCE SUPPLY	$1,631.15	
316465	101-7101-531650-	GRAINGER W W INC	MISCELLANEOUS SUPPLIES	$1,319.28	
					$1,197.00
316469	101-7101-521110-	INTL EXTERMINATORS INC	SERVICE BUILDING MAINTENANCE	$60.00	
316469	101-7101-521110-	INTL EXTERMINATORS INC	SERVICE BUILDING MAINTENANCE	$60.00	
316469	101-7101-521110-	INTL EXTERMINATORS INC	SERVICE BUILDING MAINTENANCE	$60.00	
316469	101-7101-521110-	INTL EXTERMINATORS INC	SERVICE BUILDING MAINTENANCE	$60.00	
316469	101-7101-521110-	INTL EXTERMINATORS INC	SERVICE BUILDING MAINTENANCE	$65.00	
316469	101-7101-521110-	INTL EXTERMINATORS INC	SERVICE BUILDING MAINTENANCE	$65.00	
316469	101-7101-521110-	INTL EXTERMINATORS INC	SERVICE BUILDING MAINTENANCE	$88.00	
316469	101-7101-521110-	INTL EXTERMINATORS INC	SERVICE BUILDING MAINTENANCE	$88.00	
316469	101-7101-521110-	INTL EXTERMINATORS INC	SERVICE BUILDING MAINTENANCE	$88.00	
316469	101-7101-521110-	INTL EXTERMINATORS INC	SERVICE BUILDING MAINTENANCE	$88.00	
316469	101-7101-521110-	INTL EXTERMINATORS INC	SERVICE BUILDING MAINTENANCE	$104.00	
316469	101-7101-521110-	INTL EXTERMINATORS INC	SERVICE BUILDING MAINTENANCE	$104.00	
316469	101-7101-521110-	INTL EXTERMINATORS INC	SERVICE BUILDING MAINTENANCE	$120.00	
316469	101-7101-521110-	INTL EXTERMINATORS INC	SERVICE BUILDING MAINTENANCE	$147.00	
					$313.30
316470	101-7101-530350-	BRANDING TOUCHPOINT / IPROMOTE U	CLOTHING	$313.30	
					$313.19
316478	101-7101-531850-	LOWES COMMERCIAL SERVICES	SMALL TOOLS & EQUIPMENT	$5.40	
316478	101-7101-531850-	LOWES COMMERCIAL SERVICES	SMALL TOOLS & EQUIPMENT	$53.49	
316478	101-7101-531850-	LOWES COMMERCIAL SERVICES	SMALL TOOLS & EQUIPMENT	$94.05	
316478	101-7101-531850-	LOWES COMMERCIAL SERVICES	SMALL TOOLS & EQUIPMENT	$160.25	

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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
316479	101-7101-521655-	M3V DATA MGMT LLC	SOFTWARE	$647.50	**$647.50**
316482	101-7101-531850-	MATTS ACE HARDWARE	SMALL TOOLS & EQUIPMENT	$30.97	**$99.94**
316482	101-7101-531850-	MATTS ACE HARDWARE	SMALL TOOLS & EQUIPMENT	$68.97	
316484	101-7101-531550-	MC MASTER CARR SUPPLY CO	BUILDING MAINTENANCE SUPPLY	$215.80	**$215.80**
316493	101-7101-520050-	MIOVISION TECHNOLOGIES	PROFESSIONAL SERVICES	$2,882.38	**$2,882.38**
316497	101-7101-522030-	NANCI JULIUS	TRAVEL AND TRAINING	$532.99	**$532.99**
316499	101-7101-522020-	NORBERT MROCZKOWSKI	REIMBURSEMENT	$50.00	**$50.00**
316503	101-7101-531550-	NORTHWEST ELECTRICAL SUPPLY CO	BUILDING MAINTENANCE SUPPLY	$18.25	**$288.80**
316503	101-7101-531550-	NORTHWEST ELECTRICAL SUPPLY CO	BUILDING MAINTENANCE SUPPLY	$270.55	
316504	101-7101-530050-	ODP BUSINESS SOLUTIONS	OFFICE SUPPLIES	$134.42	**$134.42**
316505	101-7101-530390-	OFFEN PETROLEUM LLC	FUEL	$28,351.66	**$28,351.66**
316535	101-7101-531650-	PETTY CASH	KITCHEN SUPPLIES	$60.97	**$168.14**
316535	101-7101-531650-	PETTY CASH	KITCHEN SUPPLIES	$89.95	
316535	101-7101-531650-	PETTY CASH	MEETING SUPPLIES	$17.22	

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					$646.00
316537	101-7101-522700-	PRECISE MRM LLC	GPS SERVICES	$646.00	
					$75.00
316538	101-7101-522700-	PTS COMMUNICATIONS INC	PHONE SERVICES	$75.00	
					$3,025.20
316542	101-7101-521110-	ROSCOE COMPANY	SERVICE BUILDING MAINTENANCE	$68.00	
316542	101-7101-521110-	ROSCOE COMPANY	SERVICE BUILDING MAINTENANCE	$93.54	
316542	101-7101-521110-	ROSCOE COMPANY	SERVICE BUILDING MAINTENANCE	$99.48	
316542	101-7101-521110-	ROSCOE COMPANY	SERVICE BUILDING MAINTENANCE	$99.48	
316542	101-7101-521110-	ROSCOE COMPANY	SERVICE BUILDING MAINTENANCE	$99.48	
316542	101-7101-521110-	ROSCOE COMPANY	SERVICE BUILDING MAINTENANCE	$99.48	
316542	101-7101-521110-	ROSCOE COMPANY	SERVICE BUILDING MAINTENANCE	$99.48	
316542	101-7101-521110-	ROSCOE COMPANY	SERVICE BUILDING MAINTENANCE	$99.57	
316542	101-7101-521110-	ROSCOE COMPANY	SERVICE BUILDING MAINTENANCE	$100.21	
316542	101-7101-521110-	ROSCOE COMPANY	SERVICE BUILDING MAINTENANCE	$102.62	
316542	101-7101-521110-	ROSCOE COMPANY	SERVICE BUILDING MAINTENANCE	$146.28	
316542	101-7101-521110-	ROSCOE COMPANY	SERVICE BUILDING MAINTENANCE	$148.56	
316542	101-7101-521110-	ROSCOE COMPANY	SERVICE BUILDING MAINTENANCE	$169.34	
316542	101-7101-521110-	ROSCOE COMPANY	SERVICE BUILDING MAINTENANCE	$219.30	
316542	101-7101-521110-	ROSCOE COMPANY	SERVICE BUILDING MAINTENANCE	$219.69	
316542	101-7101-521110-	ROSCOE COMPANY	SERVICE BUILDING MAINTENANCE	$253.44	
316542	101-7101-521110-	ROSCOE COMPANY	SERVICE BUILDING MAINTENANCE	$269.00	
316542	101-7101-521110-	ROSCOE COMPANY	SERVICE BUILDING MAINTENANCE	$276.79	
316542	101-7101-521110-	ROSCOE COMPANY	SERVICE BUILDING MAINTENANCE	$361.46	
					$20,079.80

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316549	401-7101-550300-	STRAND ASSOCIATES, INC.	PROFESSIONAL SERVICES	$20,079.80	
					$2,353.93
316557	101-7101-531450-	ULINE INC	JANITORIAL SUPPLIES	$2,353.93	
					$2,663.94
316563	101-7101-522700-	VERIZON WIRELESS	ACCT 58675303500001	$2,663.94	
					$126.48
316570	101-7101-522700-	VERIZON WIRELESS	ACCT 64202486400001	$126.48	
					$246.58
802582	101-7101-522700-	AT&T	ACCT 84779713213488	$60.16	
802582	101-7101-522700-	AT&T	ACCT 84739420624707	$60.16	
802582	101-7101-522700-	AT&T	ACCT 84739443682112	$60.16	
802582	101-7101-522700-	AT&T	ACCT 84759391411742	$66.10	
					$9,439.28
802583	101-7101-521500-	COMMONWEALTH EDISON COMPANY	ACCT 1158409000	$72.45	
802583	101-7101-521500-	COMMONWEALTH EDISON COMPANY	ACCT 6437571222	$397.82	
802583	101-7101-521500-	COMMONWEALTH EDISON COMPANY	ACCT 4410867000	$8,969.01	
					$14,056.93
802584	101-7101-521500-	CONSTELLATION NEW ENERGY INC	ACCT 8063218	$1,037.36	
802584	101-7101-521500-	CONSTELLATION NEW ENERGY INC	ACCT 8063214	$13,019.57	
					$21,773.37
802585	101-7101-521500-	NICOR	ACCT 06802945268	$62.23	
802585	101-7101-521500-	NICOR	ACCT 19426400008	$176.89	
802585	101-7101-521500-	NICOR	ACCT 72489260108	$351.08	
802585	101-7101-521500-	NICOR	ACCT 40178600009	$415.90	

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802585	101-7101-521500-	NICOR	ACCT 28178600004	$852.84	
802585	101-7101-521500-	NICOR	ACCT 38178600003	$940.50	
802585	101-7101-521500-	NICOR	ACCT 94830700004	$1,163.58	
802585	101-7101-521500-	NICOR	ACCT 15839647334	$1,440.33	
802585	101-7101-521500-	NICOR	ACCT 38096400007	$2,242.62	
802585	101-7101-521500-	NICOR	ACCT 97034457784	$3,573.23	
802585	101-7101-521500-	NICOR	ACCT 53278600001	$3,728.45	
802585	101-7101-521500-	NICOR	ACCT 25422686599	$6,825.72	
			DEPARTMENT 7101 TOTAL:	$327,988.47	

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Department 7201	**WATER AND SEWER ADMIN**				
					$1,302.97
316421	505-7201-531650-	AMAZON COM CAPITAL SERVICES	EQUIPMENT	$324.84	
316421	505-7201-531650-	AMAZON COM CAPITAL SERVICES	EQUIPMENT	$703.96	
316421	505-7201-531650-	AMAZON COM CAPITAL SERVICES	WATER SUPPLIES	$49.98	
316421	505-7201-531850-	AMAZON COM CAPITAL SERVICES	SMALL TOOLS	$94.99	
316421	505-7201-531850-	AMAZON COM CAPITAL SERVICES	SMALL TOOLS	$129.20	
					$971.25
316432	505-7201-520050-	BAXTER & WOODMAN	PROFESSIONAL SERVICES	$971.25	
					$3,520.00
316438	505-7201-550150-	CDS OFFICE TECHNOLOGIES	OFFICE EQUIPMENT	$3,520.00	
					$219.60
316444	505-7201-522700-	COMCAST CABLE	ACCT 8771100720175502	$219.60	
					$2.31
316448	505-7201-522700-	COMCAST CABLE	ACCT 8771100720048980	$2.31	
					$4,944.19
316454	505-7201-521500-	DIRECT ENERGY BUSINESS MARKETING LLC	ACCT 1806638	$4,944.19	
					$783.00
316457	505-7201-531850-	EDUCATION & OUTREACH COMPANY	MISCELLANEOUS SUPPLIES	$783.00	
					$28.00
316458	505-7201-531850-	EJ EQUIPMENT INCORPORATED	SMALL TOOLS & EQUIPMENT	$28.00	
					$290.00
316462	505-7201-531050-	GENCOMM	PUMPING & STORAGE SUPPLIES	$290.00	
					$3,035.00

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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
316465	505-7201-550150-	GRAINGER W W INC	MISCELLANEOUS SUPPLIES	$3,035.00	
					$13,063.01
316466	505-7201-521350-	HBK WATER METER SERVICE INC	METER SERVICES AND SUPPLIES	$355.15	
316466	505-7201-521350-	HBK WATER METER SERVICE INC	METER SERVICES AND SUPPLIES	$1,939.30	
316466	505-7201-521350-	HBK WATER METER SERVICE INC	METER SERVICES AND SUPPLIES	$10,609.81	
316466	505-7201-531020-	HBK WATER METER SERVICE INC	METER SUPPLIES	$158.75	
					$586.03
316478	505-7201-531550-	LOWES COMMERCIAL SERVICES	BUILDING MAINTENANCE SUPPLY	$30.40	
316478	505-7201-531550-	LOWES COMMERCIAL SERVICES	BUILDING MAINTENANCE SUPPLY	$40.79	
316478	505-7201-531550-	LOWES COMMERCIAL SERVICES	BUILDING MAINTENANCE SUPPLY	$51.70	
316478	505-7201-531550-	LOWES COMMERCIAL SERVICES	BUILDING MAINTENANCE SUPPLY	$64.07	
316478	505-7201-531550-	LOWES COMMERCIAL SERVICES	BUILDING MAINTENANCE SUPPLY	$119.01	
316478	505-7201-531550-	LOWES COMMERCIAL SERVICES	BUILDING MAINTENANCE SUPPLY	$280.06	
					$518.00
316479	505-7201-521655-	M3V DATA MGMT LLC	SOFTWARE	$518.00	
					$115.69
316482	505-7201-531020-	MATTS ACE HARDWARE	METER SUPPLIES	$75.71	
316482	505-7201-531550-	MATTS ACE HARDWARE	BUILDING MAINTENANCE SUPPLY	$28.02	
316482	505-7201-531600-	MATTS ACE HARDWARE	CHEMICALS	$11.96	
					$523.70
316485	505-7201-531010-	MENARDS-LONG GROVE	WATER SYSTEM SUPPLIES	$65.76	
316485	505-7201-531550-	MENARDS-LONG GROVE	BUILDING MAINTENANCE SUPPLY	$9.92	
316485	505-7201-531550-	MENARDS-LONG GROVE	BUILDING MAINTENANCE SUPPLY	$36.16	
316485	505-7201-531550-	MENARDS-LONG GROVE	BUILDING MAINTENANCE SUPPLY	$41.96	
316485	505-7201-531550-	MENARDS-LONG GROVE	BUILDING MAINTENANCE SUPPLY	$369.90	

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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
316490	505-7201-531010-	MID AMERICAN WATER OF WAUCONDA, INC.	WATER SYSTEM SUPPLIES	$1,617.60	**$1,617.60**
316492	505-7201-531020-	MIDWEST METER INC	METER SUPPLIES	$11,743.15	**$11,743.15**
316503	505-7201-531550-	NORTHWEST ELECTRICAL SUPPLY CO	BUILDING MAINTENANCE SUPPLY	$157.76	**$157.76**
316504	505-7201-530050-	ODP BUSINESS SOLUTIONS	OFFICE SUPPLIES	$24.79	**$24.79**
316535	505-7201-522020-	PETTY CASH	LICENSE RENEWAL FEE	$10.00	**$10.00**
316536	505-7201-520050-	PHENOVA INC	PROFESSIONAL SERVICES	$283.00	**$1,452.48**
316536	505-7201-520050-	PHENOVA INC	PROFESSIONAL SERVICES	$363.20	
316536	505-7201-520050-	PHENOVA INC	PROFESSIONAL SERVICES	$397.64	
316536	505-7201-520050-	PHENOVA INC	PROFESSIONAL SERVICES	$408.64	
316537	505-7201-522700-	PRECISE MRM LLC	GPS SERVICES	$646.00	**$646.00**
316548	505-7201-550150-	STANDARD EQUIPMENT CO	SMALL TOOLS & EQUIPMENT	$3,322.40	**$3,322.40**
316550	505-7201-520050-	SUBURBAN LABORATORIES INC	PROFESSIONAL SERVICES	$3,266.00	**$3,266.00**
316553	505-7201-531020-	TEST GAUGE INC	METER SUPPLIES	$2,467.13	**$8,338.50**
316553	505-7201-531020-	TEST GAUGE INC	METER SUPPLIES	$2,519.17	

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316553	505-7201-531020-	TEST GAUGE INC	METER SUPPLIES	$3,352.20	
					$103.31
316559	505-7201-531600-	USA BLUEBOOK	CHEMICALS	$103.31	
					$1,775.96
316563	505-7201-522700-	VERIZON WIRELESS	ACCT 58675303500001	$1,775.96	
					$376.13
316564	505-7201-522700-	VERIZON WIRELESS	ACCT 78635116200001	$376.13	
					$123.32
802582	505-7201-522700-	AT&T	ACCT 84759080850047	$123.32	
					$589.24
802583	505-7201-521500-	COMMONWEALTH EDISON COMPANY	ACCT 6949217000	$218.96	
802583	505-7201-521500-	COMMONWEALTH EDISON COMPANY	ACCT 9425223333	$370.28	
					$13,019.90
802584	505-7201-521500-	CONSTELLATION NEW ENERGY INC	ACCT 1050218	$3,893.96	
802584	505-7201-521500-	CONSTELLATION NEW ENERGY INC	ACCT 1050220	$9,125.94	
					$1,078.60
802585	505-7201-521500-	NICOR	ACCT 42567835683	$65.75	
802585	505-7201-521500-	NICOR	ACCT 05850400002	$137.41	
802585	505-7201-521500-	NICOR	ACCT 04055600003	$189.67	
802585	505-7201-521500-	NICOR	ACCT 16797600000	$199.90	
802585	505-7201-521500-	NICOR	ACCT 76830700001	$485.87	
					$1,429,063.80
902823	505-7201-521530-	NORTHWEST WATER COMMISSION	QUARTERLY PAYMENT	$1,429,063.80	
			DEPARTMENT 7201 TOTAL:	$1,506,611.69	

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Department 7301	**PARKING ADMIN**				
					$931.27
802583	235-7301-521500-	COMMONWEALTH EDISON COMPANY	ACCT 9934124000	$931.27	
			DEPARTMENT 7301 TOTAL:	$931.27	

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Department 7302	**PARKING VAIL ST. GARAGE OPER**				
					$184.65
316446	235-7302-521500-	COMCAST CABLE	ACCT 8771100721377909	$184.65	
			DEPARTMENT 7302 TOTAL:	$184.65	

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Department 7303	**PARKING NORTH GARAGE OPER**				
316544	235-7303-531900-	SCHOENBERG SALT INC	STREET SUPPLIES	$16,575.00	**$16,575.00**
802584	235-7303-521500-	CONSTELLATION NEW ENERGY INC	ACCT 1060231	$1,812.60	**$1,812.60**
802585	235-7303-521500-	NICOR	ACCT 12690400002	$63.81	**$63.81**
			DEPARTMENT 7303 TOTAL:	$18,451.41	

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Department 7304	**PARKING EVERGREEN ST GAR OPER**				
					$188.39
802585	235-7304-521500-	NICOR	ACCT 92296400002	$188.39	
			DEPARTMENT 7304 TOTAL:	$188.39	

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Department 7501	**MUNICIPAL FLEET SVCS ADMIN**				
					$42.59
316421	621-7501-531500-	AMAZON COM CAPITAL SERVICES	VEH MAINTENANCE SUPPLY	$42.59	
					$56,479.00
316424	401-7501-550150-	ARCLIGHT DYNAMICS, LLC	EQUIPMENT	$54,520.00	
316424	621-7501-531510-	ARCLIGHT DYNAMICS, LLC	VEH MAINTENANCE SUPPLY	$1,959.00	
					$1,300.00
316431	621-7501-531510-	AUTO TECH CENTERS INC	VEH MAINTENANCE SUPPLY	$1,300.00	
					$244.51
316435	621-7501-531510-	BUMPER TO BUMPER	VEH MAINTENANCE SUPPLY	$17.30	
316435	621-7501-531510-	BUMPER TO BUMPER	VEH MAINTENANCE SUPPLY	$64.70	
316435	621-7501-531510-	BUMPER TO BUMPER	VEH MAINTENANCE SUPPLY	$70.23	
316435	621-7501-531510-	BUMPER TO BUMPER	VEH MAINTENANCE SUPPLY	$92.28	
					$290.10
316465	621-7501-531510-	GRAINGER W W INC	VEH MAINTENANCE SUPPLY	$221.60	
316465	621-7501-531850-	GRAINGER W W INC	SMALL TOOLS & EQUIPMENT	$68.50	
					$19,626.71
316468	621-7501-521070-	INTERSTATE POWER SYSTEMS	EQUIPMENT MAINTENANCE	$19,626.71	
					$1,673.65
316477	621-7501-531510-	LORCHEM TECHNOLOGIES INC	VEH MAINTENANCE SUPPLY	$1,673.65	
					$129.50
316479	621-7501-521020-	M3V DATA MGMT LLC	SOFTWARE	$129.50	
					$147.24
316481	621-7501-531510-	MACQUEEN EMERGENCY GROUP	VEH MAINTENANCE SUPPLY	$147.24	

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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
					$28.50
316491	621-7501-531510-	MIDWEST LUBE INC	VEH MAINTENANCE SUPPLY	$28.50	
					$1,529.32
316498	621-7501-531510-	NAPA AUTO PARTS	VEH MAINTENANCE SUPPLY	$28.58	
316498	621-7501-531510-	NAPA AUTO PARTS	VEH MAINTENANCE SUPPLY	$54.88	
316498	621-7501-531510-	NAPA AUTO PARTS	VEH MAINTENANCE SUPPLY	$119.16	
316498	621-7501-531510-	NAPA AUTO PARTS	VEH MAINTENANCE SUPPLY	$187.00	
316498	621-7501-531510-	NAPA AUTO PARTS	VEH MAINTENANCE SUPPLY	$196.70	
316498	621-7501-531510-	NAPA AUTO PARTS	VEH MAINTENANCE SUPPLY	$943.00	
					$164.48
316532	621-7501-531510-	PATLIN INC	VEH MAINTENANCE SUPPLY	$164.48	
					$409.90
316543	621-7501-531510-	RUSH TRUCK CENTER-CAROL STREAM	VEH MAINTENANCE SUPPLY	$409.90	
					$435.37
316548	621-7501-531510-	STANDARD EQUIPMENT CO	VEH MAINTENANCE SUPPLY	$435.37	
					$427.76
316552	621-7501-521360-	TERRACE SUPPLY CO	EQUIPMENT RENTAL	$99.32	
316552	621-7501-531650-	TERRACE SUPPLY CO	MISCELLANEOUS SUPPLIES	$328.44	
					$238.75
316558	621-7501-530350-	UNIFIRST CORPORATION	CLOTHING	$118.75	
316558	621-7501-530350-	UNIFIRST CORPORATION	CLOTHING	$120.00	
					$1,511.88
316572	621-7501-531510-	WENTWORTH TIRE SERVICE	VEH MAINTENANCE SUPPLY	$1,511.88	
					$894.95

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CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
316573	621-7501-531510-	WEST SIDE TRACTOR SALES CO	VEH MAINTENANCE SUPPLY	$385.05	
316573	621-7501-531510-	WEST SIDE TRACTOR SALES CO	VEH MAINTENANCE SUPPLY	$509.90	
					$9.94
316574	621-7501-530500-	WEX BANK	FUEL	$9.94	
					$66.91
316575	621-7501-531510-	ZEIGLER OF SCHAUMBURG	VEH MAINTENANCE SUPPLY	($164.00)	
316575	621-7501-531510-	ZEIGLER OF SCHAUMBURG	VEH MAINTENANCE SUPPLY	($66.72)	
316575	621-7501-531510-	ZEIGLER OF SCHAUMBURG	VEH MAINTENANCE SUPPLY	$24.31	
316575	621-7501-531510-	ZEIGLER OF SCHAUMBURG	VEH MAINTENANCE SUPPLY	$57.00	
316575	621-7501-531510-	ZEIGLER OF SCHAUMBURG	VEH MAINTENANCE SUPPLY	$66.72	
316575	621-7501-531510-	ZEIGLER OF SCHAUMBURG	VEH MAINTENANCE SUPPLY	$149.60	
					$275.10
316576	621-7501-531510-	ZORO TOOLS INC	VEH MAINTENANCE SUPPLY	$73.90	
316576	621-7501-531650-	ZORO TOOLS INC	MISCELLANEOUS SUPPLIES	$201.20	
			DEPARTMENT 7501 TOTAL:	$85,926.16	

VILLAGE OF ARLINGTON HEIGHTS
WARRANT REGISTER
CHECK DATE: 4/15/2026

CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
Department 9001	**CAPITAL ADMIN**				
					$10,397.08
316466	505-9001-550250-	HBK WATER METER SERVICE INC	COMMERCIAL METER REPLACEMENT	$2,425.64	
316466	505-9001-550250-	HBK WATER METER SERVICE INC	COMMERCIAL METER REPLACEMENT	$3,985.72	
316466	505-9001-550250-	HBK WATER METER SERVICE INC	COMMERCIAL METER REPLACEMENT	$3,985.72	
					$491,931.90
316472	505-9001-550250-	JETCO LTD	EQUIPMENT MAINTENANCE	$491,931.90	
					$4,803.13
316540	505-9001-550250-	RJN GROUP INC	PROFESSIONAL SERVICES	$4,803.13	
			DEPARTMENT 9001 TOTAL:	$507,132.11	

VILLAGE OF ARLINGTON HEIGHTS

WARRANT REGISTER

CHECK DATE: 4/15/2026

CHECK #	ACCOUNT #	VENDOR NAME/#	DESCRIPTION	AMOUNT	TOTAL AMOUNT
Department 9901	**NON-OPERATING**				
					$15,007.50
316487	515-9901-540830-	METROPOLIS COMMERCIAL CONDO ASSN	CAM CHARGE	$4,423.00	
316487	515-9901-540910-	METROPOLIS COMMERCIAL CONDO ASSN	BUILDING RESERVE CHARGE	$10,584.50	
			DEPARTMENT 9901 TOTAL:	$15,007.50	
			WARRANT TOTAL:	**$4,789,881.06**	

VILLAGE OF ARLINGTON HEIGHTS
INC. 1887

Village Board of Trustees
4/20/2026

Item: Boards and Commissions Reappointments
Department: Integrated Services

Item Description:
Boards and Commissions Reappointments

ATTACHMENTS:
1. B & C appointments & reappointments 2026

Boards and Commissions Appointments/Reappointments

April 20, 2026

Board/Commission	Member Reappointment	Term Ending
Plan Commission	Jay Cherwin	4/30/2029
Plan Commission	Joseph Lorenzini	4/30/2029
Zoning Board of Appeals	Benjamin Jaffe	4/30/2031
Zoning Board of Appeals	Frank Portera	4/30/2031
Board of Health	Jerome T. Meservey	4/30/2029
Board of Health	Joseph J. Novak, Psy. D	4/30/2029
Design Commission	Jonathan Kubow	4/30/2029
Building Code Review Board	Carl F. Baldassarra	4/30/2029
Environmental Commission	Theresa Jordan	4/30/2029
Environmental Commission	Mark Porwit	4/30/2029
Environmental Commission	Steven C. Sawyer	4/30/2029
Housing Commission	Kenneth Kiefer	4/30/2029
Housing Commission	David LoSavio	4/30/2029
The Arlington Economic Alliance	Brian Roginski (Restauranteur)	4/30/2029
Senior Citizens Commission	Sharon Adams	4/30/2029
Senior Citizens Commission	Timothy Carter	4/30/2029
Senior Citizens Commission	Frederick Feldman	4/30/2029
Senior Citizens Commission	George Motto	4/30/2029
Senior Citizens Commission	Steve Raminiak	4/30/2029
Senior Citizens Commission	Gary Wood	4/30/2029
Youth Commission	Taryn Gombar	4/30/2029
Youth Commission	Sydney Galla (Youth)	4/30/2027
Youth Commission	Colin Smith (Youth)	4/30/2027
Youth Commission	Riley Philips (Youth)	4/30/2027
Youth Commission	Ava McQuaid (Youth)	4/30/2027
Youth Commission	Christopher Hong (Youth)	4/30/2027
Youth Commission	Maria Georgakopoulos (Youth)	4/30/2027
Commission for Citizens with Disabilities	Roxanne L. Calibraro	4/30/2029
Commission for Citizens with Disabilities	Beth Deiter	4/30/2029
Bicycle & Pedestrian Advisory Commission	David Easley	4/30/2029
Bicycle & Pedestrian Advisory Commission	Jürgen Juffa	4/30/2029
Bicycle & Pedestrian Advisory Commission	Charlotte Obodzinski	4/30/2029
Bicycle & Pedestrian Advisory Commission	Jay Virchow	4/30/2029
Special Events Commission	Diane Jamieson	4/30/2030
Special Events Commission	Keri Stanley	4/30/2030
Board of Trustees of the Firefighters' Pension Fund	Melissa Gallagher	4/30/2029
Fire & Police Commission	Luis Ramirez-Alonso	4/30/2029
Board of Trustees of the Police Pension Fund	Harry A. Malone (appointed)	5/12/2028

Chair appointments / reappointments

Board / Commission	Board / Commission Chair	Term Ending
Zoning Board of Appeals	Benjamin Jaffe	4/30/2027
Board of Health	Jerome Meservey, MD	4/30/2027
Plan Commission	Jay Cherwin	4/30/2027
Design Commission	Kirsten Kingsley	4/30/2027
Building Code Review Board	Patrick O'Gorman	4/30/2027
Environmental Commission	Theresa Jordan	4/30/2027
Housing Commission	Ken Kiefer	4/30/2027
The Arlington Economic Alliance	Michael Mulder	4/30/2027
Senior Citizens Commission	Fred Vogt	4/30/2027
Youth Commission	Alice Son	4/30/2027
Commission for Citizens with Disabilities	Jennifer Durkin	4/30/2027
Bicycle & Pedestrian Advisory Commission	Richard Lenski	4/30/2027
Special Events Commission	Brad Katz	4/30/2027
Arts Commission	Mary T. Seitz-Paguro	4/30/2027
Fire and Police Commission	Dean Walsh	4/30/2027

VILLAGE OF ARLINGTON HEIGHTS
INC. 1887

Village Board of Trustees
4/20/2026

Item: Resolution Approving the Award of a Contract for the Furnishing of LED Streetlight Fixtures
Department: Public Works & Engineering

Item Description:
The Village of Arlington Height's approved Village Budget includes $64,000 for the conversion of non-efficient lighting to Light Emitting Diodes (LED's) wherever possible. The Department proposed to replace all 3,433 streetlights over an 8-year term, which began in 2018. This is the last year of this part of the program.

To date, there are 150 remaining streetlights that need to be converted to LED's this year.

The Village developed and advertised plans and specifications for a public bid for this year's project. This bid was designed to provide competitive pricing for materials that Staff will install. The 150 streetlights proposed for replacement are rated at 250 watts each, including a transformer. The proposed lights are only 130 watts each. Additionally, staff submitted the necessary paperwork for ComEd's Efficiency Rebate Program and anticipate a rebate of approximately $48,500, covering about 68% of Village costs.

On April 1, 2026, four bids were publicly opened and read aloud, and the bid results are listed below:

BIDDER	TOTAL BID PRICE (For 250 Units)	UNIT PRICE (If additional purchases)
Graybar Electric Company	$61,947.50	$436.25
Active Electric Supply Co.	$115,055.50	$810.25
Dominion Lighting Inc.	$117,434	$846
Steiner Electric Company	$133,196	$938

The lowest bidder was Graybar Electric Company of Itasca, Illinois, with a total bid cost of $61,947.50. Staff has been satisfied with past purchases through Graybar Electric Company and their bid meets specifications.

Funding is available in Account No. 401-7101-550300 (ST1901) for this purchase.

RECOMMENDATION

It is recommended that the Village Board award the Furnishing of Streetlight LED Fixtures contract to Graybar Electric Company of Itasca, Illinois, per unit bid prices, and not-to-exceed amount of $61,947.50 as authorized in the attached Resolution and execute the necessary documents.

ATTACHMENTS:

1. 20260420_FurnishingStreetlightLED

VILLAGE OF ARLINGTON HEIGHTS

RESOLUTION NO. _____

A RESOLUTION APPROVING THE AWARD OF A CONTRACT FOR FURNISHING OF STREETLIGHT LED FIXTURES, TO GRAYBAR ELECTRIC COMPANY OF GLENDALE HEIGHTS, ILLINOIS

WHEREAS, the Village sought bids for the award of a contract for streetlight LED fixtures 2026(*"Contract"*); and

WHEREAS, Graybar Electric Company of Glendale Heights, Illinois (*"Contractor"*), was the lowest responsible and responsive bidder of the firms that submitted bid packages to the Village for the Contract; and

WHEREAS, the Village President and Board of Trustees have determined that entering into the Contract with Contractor will serve and be in the best interest of the Village and its residents;

NOW, THEREFORE, BE IT RESOLVED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF ARLINGTON HEIGHTS, COOK COUNTY, ILLINOIS, as follows:

SECTION 1. RECITALS. The facts and statements contained in the preamble to this Resolution are found to be true and correct and are hereby adopted as part of this Resolution.

SECTION 2. APPROVAL OF CONTRACT. The Board of Trustees hereby approves the Contract by and between the Village and Contractor, in substantially the form attached to this Resolution as Exhibit A, and in a final form and substance acceptable to the Village Administrator and Village Attorney.

SECTION 3. EXECUTION OF CONTRACT. The Village Manager and the Village Clerk are hereby authorized and directed to execute and attest, on behalf of the Village, the Contract upon receipt by the Village Clerk of at least one original copy of the Contract executed by Contractor; provided, however, that if the executed copy of the Contract is not received by the Village Clerk within 30 days after the effective date of this Resolution, then this authority to execute and attest will, at the option of the President and Board of Trustees, be null and void.

SECTION 4. EFFECTIVE DATE. This Resolution will be in full force and effect from and after its passage and approval as provided by law.

AYES:

NAYS:

PASSED AND APPROVED THIS ___ day of _____, 20__.

_____
Village President

ATTEST:

_____
Village Clerk

Village of Arlington Heights

33 South Arlington Heights Road
Arlington Heights, Illinois 60005
847-368-5000
www.vah.com

NOTICE OF AWARD

Graybar Electric Company
1 Pierce Place, Suite 800
Itasca, IL 60143

April 20, 2026

Project Description: Furnishing of Streetlight LED Fixtures

The Village of Arlington Heights has considered the proposal submitted by your Company for the above-described work in response to its INVITATION FOR BIDS opened April 1, 2026.

YOU ARE HEREBY NOTIFIED that your proposal/bid has been accepted by the Village Board on April 20, 2026 for items and services up to the amount of: **Sixty-One Thousand, Nine Hundred Forty-Seven Dollars and 50/100ths** ($61,947.50).

You are required to execute the Contract Documents and provide necessary Insurance documentation within Fifteen (15) days from the date of this Notice to you.

If you fail to execute said Contract within Fifteen (15) days from the date of this Notice, said Owner will be entitled to consider all your rights arising out of the Owner's acceptance of your proposal as abandoned and the Owner will be entitled to such other rights as may be granted by law. Please return signed contracts to Lisa Subrin.

You are required to return an acknowledged copy of this Notice of award to the Village, with two signed copies of the contract.

Dated this 20th day of April, 2026

Village of Arlington Heights

By: _____

Lisa Subrin, Purchasing Coordinator

Acceptance of Notice

Receipt of the above Notice of Award is acknowledged by Graybar Electric Company this _____ of _____ (month), 2026.

By: _____

Title: _____

VILLAGE OF ARLINGTON HEIGHTS
CONTRACT

This Agreement is made and entered into this 20th day of April, 2026, between the Village of Arlington Heights "Village" and Graybar Electric Company, "Vendor."

In consideration of the mutual benefits that will result to the parties in carrying out the terms of this Agreement, the parties agree as follows:

1. The Vendor agrees to do all the work, furnish all materials and all labor necessary to complete the work in full compliance with all of the terms of this agreement and the proposed specifications and the requirements of the Director under it;
2. The Village agrees to pay the Vendor based on unit prices for completion of the work in accordance with the bid documents;
3. It is understood and agreed that the Bid Documents, Specifications, Addenda, and the Bidder's response are all essential documents for the Furnishing of Streetlight LED Fixtures Project. They are attached and hereby made part of this agreement.

IN WITNESS WHEREOF, the Parties have executed this Agreement on the date indicated above.

Attest: Village of Arlington Heights

_____ By:_____
Clerk
(Seal) Title: _____

Date:_____

Attest:

Bidder:

By:_____

_____ Title:_____
Notary
(Seal) Date:_____

Subscribed & sworn before me this _____day of _____2026.

VILLAGE OF ARLINGTON HEIGHTS
FINANCE DEPARTMENT, PURCHASING DIVISION
33 S. ARLINGTON HEIGHTS ROAD

BID SPECIFICATIONS AND CONTRACT DOCUMENTS

Furnishing of Streetlight LED Fixtures

Required for Use by: Village of Arlington Heights- Public Works

Bid Deposit: N/A

Performance Bond: N/A

Pre-Bid Meeting: N/A

Date and Time Bids Due: Submit electronically by 10:00 AM Wednesday April 1, 2026

Date and Time of Bid Opening: Wednesday April 1, 2026 at 10:00 AM

Project Contact: Scott Bellanger, sbellanger@vah.com, 847-368-5800
Purchasing Coordinator: Lisa Subrin, lsubrin@vah.com, 847-368-5509

This bid is utilizing our Electronic Bid Management System:

* Please see the Bid Notice for the link to access the bid documents and instructions.

* **If you have ever done business with the Village of Arlington Heights or if your company has reviewed a bid electronically with us, you ALREADY have a vendor number assigned to you. Please follow the instructions to LINK to your vendor # and do NOT create a new vendor #.** Please contact Lisa Subrin if you do not know your vendor number. Your vendor number can also be found on our POs and checks.

* It is imperative that you register as a vendor and be logged in **PRIOR TO VIEWING** the Bid Documents. **This is the only way to connect you to the bid and allow us to send you updates, such as addendums.**

* Required documents to be submitted with this bid are: Vendor Application Form, Bid Proposal Page, including References, and signed addendum, if applicable

* Please allow yourself enough time to submit your bid before the bid closes.

In the event bidder cannot submit a bid on the requirements as set forth in the bid documents, he or she should return the bid documents with an explanation as to why he or she is unable to bid on these requirements. Because of the large number of firms listed on the Village's qualified bidder's list, it is necessary to delete from these lists the names of those persons, firms or corporations who fail to respond after having been invited to bid on a commodity or commodities.

BID NOTICE

Furnishing of Streetlight LED Fixtures
Bid # 260011

The Village of Arlington Heights will accept sealed bids electronically for the Furnishing of Streetlight LED Fixtures Bid until 10:00 AM local time on Wednesday April 1, 2026, at which time they will be publicly opened and read.

The LED type of roadway fixture unit supplied shall be a COOPER LIGHTING GROUP LED Street Luminaire – Streetworks Archeon Large Series fixture. NO substitutions will be acceptable. Fixture selection shall be at the sole discretion of the Village.

The Village of Arlington Heights reserves the right to reject any or all proposals, to waive informalities in bidding and to accept the proposal deemed by the Board of Trustees to be the most favorable to the interests of the Village.

This bid is utilizing our Electronic Bid Management System and specifications/bid documents may be obtained with the following link and instructions. This information and link can also be found at www.vah.com

https://vilofarlingtonheightsil.munisselfservice.com/vss/Vendors/VBids/Default.aspx

Type in the bid # and click search. Next click on the bid #, and then click on the attachments on the right-hand side to find instructions on How to Register and Submit a Bid.

* **If you have ever done business with the Village of Arlington Heights or if your company has reviewed a bid electronically with us, you ALREADY have a vendor number assigned to you. Please follow the instructions to LINK to your vendor # and do NOT create a new vendor #.** Please contact Lisa Subrin if you do not know your vendor number. Your vendor number can also be found on our POs and checks.

* It is imperative that you register as a vendor and be logged in **PRIOR TO VIEWING** the Bid Documents. **This is the only way to connect you to the bid and allow us to send you updates, such as addendums.**

Contact Lisa Subrin, Purchasing Coordinator, at lsubrin@vah.com, if you have issues accessing the bid.

For a list of our current bids, visit our website at www.vah.com.

VILLAGE OF ARLINGTON HEIGHTS
GENERAL CONDITIONS AND INSTRUCTION TO BIDDERS
PURCHASES

THE GENERAL TERMS AND CONDITIONS WHICH FOLLOW APPLY TO ALL PURCHASES AND BECOME A DEFINITE PART OF EACH FORMAL INVITATION TO BID, PURCHASE ORDER, OR CONTRACT ISSUED BY THE VILLAGE OF ARLINGTON HEIGHTS ("VILLAGE"), UNLESS OTHERWISE SPECIFIED. BY SUBMITTING A BID, THE BIDDER AGREES TO BE BOUND BY THESE TERMS AND CONDITIONS. BIDDERS OR THEIR AUTHORIZED REPRESENTATIVES ARE EXPECTED TO FULLY INFORM THEMSELVES OF THE CONDITIONS, REQUIREMENTS, AND SPECIFICATIONS BEFORE SUBMITTING BIDS, FAILURE TO DO SO WILL BE AT THE BIDDER'S OWN RISK AND THE BIDDER CANNOT SECURE RELIEF ON THE PLEA OF ERROR.

1.0 BIDDING PROCEDURES

1.01 PROPOSAL FORMS:

Proposals shall be submitted electronically through the Bid Management System. All information required by the bidding documents must be supplied to constitute a responsive bid.

1.02 BID DEPOSIT: N/A

Each bid will be accompanied by a bid guaranty in the form and amount as specified in the Notice to Bidders. When a bid bond is allowed as detailed in the Invitation to Bid, the bid bond will be signed by a surety company authorized to do business in the State of Illinois. Bid deposits shall not exceed 10% of total bid. Bids submitted without the required bid guaranty shall be considered informal and will be rejected. Bid deposits submitted by the successful contractor will be held as security until a contract is signed. Failure to provide goods as agreed, may result in the forfeiture of your bid deposit.

1.03 SUBMISSION OF BIDS:

All bid/proposals should be submitted electronically through the Bid Management System prior to the time specified for opening the bid. If a bid cannot be submitted electronically, please contact the Purchasing Coordinator. Bids received prior to the opening will be securely kept, unopened. The Purchasing Coordinator, or their designated agent, will decide when the specified time for the bid opening has arrived, and bids will be opened as soon as practical after the assigned time. Formal sealed bids, amendments thereto, or requests for withdrawal of bids after the time specified for the bid opening will not be considered. Formal bids received after the specified bid time will not be considered and will be returned unopened. No responsibility will attach to the Purchasing Coordinator or to the Village for the premature or non-opening of a bid not properly addressed and identified, except as otherwise provided by law.

1.04 ADDENDUM:

Bidders shall acknowledge the receipt of any addendum interpreting the

specifications on the proposal form.

1.05 SAMPLES:

Samples or drawings requested shall be delivered at no cost to the Village. The Village will not be responsible for damages to samples. Samples will be removed by the bidder within (30) thirty days after notification. Samples must be submitted prior to the time set for the opening of the bid.

1.06 NO BID RESPONSE:

In the event you cannot submit a bid, return the proposal document with an explanation as to why you are unable to submit a bid and clearly mark the proposal "No Bid". Failure to submit a bid or correspondence indicating why a bid is not being submitted may result in your company being removed from the Village Bid List.

1.07 QUESTIONS:

All questions concerning the bid shall be submitted to the Purchasing Division. Questions requiring a clarification or interpretation of the specifications shall be submitted to the Purchasing Division in writing at least five business days prior to the bid opening, if necessary, the Purchasing Division will issue a written response to all bidders in the form of an addendum. Whenever the answer to the question is contained in the bid documents, the bidder shall be directed to the provision within the general conditions which responds to the question. The Village will not be responsible for any other explanation of the specifications made prior to the receipt of bids.

1.08 BIDS BINDING FOR 90 DAYS:

Unless otherwise specified in the specifications, all formal bids submitted shall be binding for ninety (90) calendar days following date of opening.

1.09 BID PROPOSAL FOR ALL OR PART:

Unless otherwise specified, bids shall be submitted for all of the work or items for which the bids are requested.

1.10 ALTERNATE PROPOSALS:

The specifications are prepared to describe the goods and/or service which the Village deems to be in the best interests to meet its performance requirements. Bidders desiring to bid on items which deviate from the stated specifications, but which they believe to be equal, may do so but all specification deviations must be clearly noted on the form provided in the bid package. The Village reserves the right to rule upon specification deviation in a manner that best meets the needs of the Village. If a bidder wishes to submit more than one bid, each bid after the first is to be considered an ALTERNATE. These bids must be placed in SEPARATE envelopes. The envelopes and bid proposal page must be plainly marked, "ALTERNATE BID".

1.11 WITHDRAWAL OF BIDS:

A written request for withdrawal of a bid will be granted if the request is received by the Village prior to the specified time of the opening. After the opening, the bidder may not withdraw or cancel their bid for a period of ninety (90) calendar days, or such longer time as stated in the bid document.

1.12 BID OPENING:

At the time assigned for the opening of formal bids, the bids will be opened and read aloud. Bidders are encouraged to attend all openings and to offer constructive suggestions for improvements to bid format or any way in which greater savings can be realized.

2.00 AWARDING THE BID

2.01 CRITERIA FOR AWARDING BID/RESERVATION OF RIGHTS:

The contract will be awarded to the lowest responsible bidder, or any other bidder determined by the Village Board to be in the best interest of the Village, who complies with all the provisions of the invitation to bid. The Village reserves the right to reject any or all bids or to waive any non-conformity in bids received whenever such rejection or waiver is in the best interests of the Village. The Village also reserves the right to reject the bid of a bidder who has previously failed to satisfactorily perform a contract, has not completed contracts on time, or whom an investigation shows is not in a position to perform the contract. In determining responsibility, the following qualifications will be considered by the Village:

(a) The product or services offered meets stated specifications.

(b) The ability, capacity, and skill of the bidder to perform the contract or provide the service required.

(c) Whether the bidder can perform the contract or provide service promptly, or within the time specified, without delay or interference.

(d) The character, integrity, reputation, judgment, experience, and efficiency of the bidder.

(e) The quality of performance of previous contracts or services.
(f) The previous and existing compliance by the bidder with laws and ordinances relating to the contract or service.

(g) The sufficiency of the financial resources and ability of the bidder to perform the contract or provide the service.

(h) The quality, availability, and adaptability of the supplies or contractual services to the particular use required.

(i) The ability of the bidder to provide future maintenance and service for the use of the subject of the contract.

(j) Lowest bids received. Discounts for cash payments may be considered only if discount is clearly written on the proposal page.

2.02 NOTICE OF AWARD:

The Village will accept in writing one of the proposals, within ninety (90) days from the date of opening of bids, or the time specified within the specifications, unless the lowest responsible bidder extends the time of acceptance to the Village.

2.03 AWARD OF ALL OR PART:

Unless otherwise specified by the Village, the Village reserves the right to make an award on all items, or on any of the items according to the best interests of the Village. Bidder may restrict their bid to consideration in the aggregate by so stating, but must name a unit price on each item bid upon. The Village reserves the right to accept or reject any bid in which the bidder names a total price for all the articles without quoting a price on each and every item.

3.00 BOND REQUIREMENTS: N/A

3.01 EXECUTION OF PERFORMANCE BOND:

When noted in the specifications, the Village reserves the right to require the successful bidder to supply a performance bond within ten (10) calendar days of acceptance of the bidder's proposal by the Village. The performance bond, unless otherwise specified by the Purchasing Division, shall be 100% of the total contract price.

3.02 FAILURE TO FURNISH BOND:

In the event that the bidder fails to furnish the performance bond within ten (10) calendar days after acceptance of bid by the Village, then the bid deposit of the bidder shall be retained by the Village as liquidated damages, it being now agreed that this sum is a fair estimate of the amount of damages that the Village will sustain due to the bidder's failure to furnish the bond.

4.00 SPECIFICATIONS

4.01 NEW GOODS, FRESH STOCK:

Unless otherwise specifically stated, all contractors shall provide new commodities, fresh stock, latest model, design or package.

4.02 TRADE NAME USED BY VILLAGE:

Unless otherwise stated, any reference in the Village's specifications to a detailed manufacturer is for descriptive, not restrictive purposes, indicating articles that are satisfactory. Bids on other makes and catalogs will be considered, provided the bidder clearly states exactly what the bidder proposes to furnish; or forwards with the bid, a cut, illustration, or other descriptive matter which will clearly indicate the character of the article covered by the bid and that it meets the intended requirements.

4.03 TRADE NAME USED BY BIDDER:

Where the bidder identifies an item by manufacturer's name, trade name, catalog number, or reference, the bidder shall furnish the item so identified and shall not propose to furnish an "equal" unless the proposed "equal" is definitely indicated within the bid.

4.04 PROPOSED EQUIVALENTS:

The manufacturer and model specified is provided to indicate the quality minimums expected by the Village. Where specifications provide detailed information regarding

certain manufacturers and models, equivalent products shall be accepted for consideration. Equivalent products shall be equivalent as to quality, function, design, features and overall warranty of products proposed. It shall be the determination of the user department or designee to judge and conclude if a product is acceptable as an equivalent. All products proposed as part of this purchase shall be designed specifically for the intended use.

If no particular brand, model, or make is specified, and if no data are required to be submitted with the bid, the specifications may require the bidder to submit working drawings or detailed descriptive data sufficient for the Village to determine if each requirement of the specifications is being complied with prior to manufacture or shipment

5.00 PRICE

5.01 NET PRICES:

Bid prices, unless otherwise specified in the specifications, must be net, including transportation and handling charges fully prepaid by the contractor to delivery point.

5.02 PRICE REDUCTION:

If at any time after the date of the bid or offer the contractor makes a general price reduction in any material covered by the contract, an equivalent price reduction shall apply to the contract for the remaining contract period (or until the price is further reduced). Such price reduction shall be effective at the same time and in the same manner as the reduction in the price to customers generally. For purpose of this provision, a "general price reduction" shall mean any horizontal reduction in the price of an article or service offered (1) to contractor's customers generally, or (2) in the contractor's price schedule for the class of customers, i.e., wholesalers, jobbers, retailers, etc., which was used as the basis for bidding on this contract. An occasional sale at a lower price would not be considered a "general price reduction" under this provision. The contractor shall invoice the ordering offices at such reduced prices indicating on the invoice that the reduction is pursuant to the "Price Reduction" provision of the contract documents. The contractor, in addition, shall within ten calendar days of any general price reduction notify the Purchasing Coordinator of such reduction by letter. Failure to do so may result in termination of the contract.

5.03 TAX EXEMPTION:

Illinois Retailers Occupation Tax, Use Tax and Municipal Retailer’s Occupation Tax do not apply to materials or services purchased by the Village. The price quoted herein shall include all other Federal and/or State direct and/or indirect taxes which apply.

5.04 ERRORS IN BID PRICES:

When an error is made in extending total prices, the unit bid price will govern. Erasures or changes in bids must be initialed by the bidder.

6.00 QUANTITIES

6.01 SPECIFIC BID QUANTITIES:

Where quantities are specifically stated, acceptance will bind the Village to order and

pay for, at contract prices, all such supplies or services delivered that meet the specifications and conditions of the contract. Acceptance shall be in compliance with the Uniform Commercial Code S2-606.

6.02 REQUIREMENTS OR ESTIMATED BID QUANTITIES:

On "Requirements or Estimated Bid Quantities," acceptance will bind the Village to pay for, at unit bid prices, only quantities ordered and delivered. Any reference to forecasted or estimated quantities within the bidding documents is intended to inform the bidder of approximate annual requirements. The Village may purchase as little as zero percent (0%) or as much as one hundred percent (100%) of the forecasted or estimated quantities.

7.00 DELIVERY PROVISIONS

7.01 PLACING OF ORDER:

Orders against contracts will be placed with the contractor on a purchase order executed and released by the Purchasing Division. Telephone, facsimile or electronic orders placed directly with the contractor by the Purchasing Division may be authorized by the Purchasing Division only after execution of a blanket purchase order.

7.02 RESPONSIBILITY FOR MATERIALS SHIPPED:

The successful bidder shall be responsible for the materials or supplies covered by this contract until they are delivered at the designated point. Rejected materials or supplies must be removed by and at the expense of the Bidder promptly within (5) five calendar days after notification or rejection. The bidder shall be responsible for rejected goods after notice of rejection.

7.03 DELIVERY FAILURES:

Failures of a contractor to deliver within the time specified, or within a reasonable time as interpreted by the Purchasing Division, or failure to make replacement of rejected articles when so requested, immediately or as directed by the Purchasing Division, shall constitute authority for the Purchasing Division to purchase in the open market articles. With such purchases, either: (1) the contractor shall reimburse the Village, within a reasonable time specified by the Purchasing Division, for any expense incurred in excess of contract prices; or (2) the Village may deduct such amount from monies owed the defaulting contractor. Such purchases shall be deducted from contract quantities. Should public necessity demand it, the Village reserves the right to use or consume articles delivered which are substandard in quality, subject to an adjustment in price to be determined by the Purchasing Division.

7.04 PACKAGING AND CONTAINERS:

Unless otherwise specified, goods shall be delivered in commercial packages in standard commercial containers, so constructed as to insure acceptance by common or other carrier for safe transportation, at the lowest rate, to the point of delivery. Containers become the property of the Village unless otherwise specified by bidder in his bid. The shipment shall be properly marked and tagged, stating the contractor's name and purchase order number. All delivery arrangements will be made in advance with the Purchasing Division or designee as specified within the bid document.

7.05 INSPECTION OF GOODS:

Inspections and acceptance of materials or supplies will be made after delivery. Final inspection shall be conclusive except as regards latent defects, fraud, or such gross mistakes as to amount to fraud. Final inspection and acceptance or rejection of the materials or supplies will be made as promptly as practicable. All delivered materials shall be accepted subject to inspection and physical count.

7.06 PACKING SLIPS OR DELIVERY TICKETS:

All shipments or deliveries shall be accompanied by packing slips or delivery tickets and shall contain the following information for each item delivered:

(a) Purchase order number
(b) Name of the article and stock number
(c) Quantity ordered
(d) Quantity shipped
(e) Quantity back ordered
(f) Name of the contractor

8.00 GENERAL RESPONSIBILITY PROVISIONS

8.01 COMPLIANCE WITH ALL LAWS:

All work under the contract must be executed in accordance with all applicable federal, state and local laws, ordinances, rules and regulations.

8.02 CONTRACT ALTERATIONS:

No amendment of a contract shall be valid unless made in writing and signed by both parties.

8.03 GENERAL GUARANTY: Bidder agrees to:

(a) Save the Village, its agents, and employees harmless from liability of any nature or kind for the use of any copyrighted or un-copyrighted composition, secret process, patented or unpatented invention, article, or appliance furnished or used in the performance of the contract which the bidder is not the patentee, assignee, licensee, or owner; and

(b) Protect the Village against latent defects in materials or workmanship and to repair or replace any articles damaged or marred in transit or during delivery; and

(c) Pay for all permits, licenses, and fees and give all notices; and to comply with all laws, ordinances, and rules of the Village and the State of Illinois.

8.04 DEFAULT:

In the event of the Bidder's nonperformance or breach of the contract terms, the contract may be canceled, in whole or in part, upon the Village's written notice of default and the bidder's failure to cure such default within ten (10) calendar days of the notice. The bidder shall be liable to the Village for all costs incurred in completion of the contract.

The bidder may not be liable in damages for delay in performance when such delay

or failure is the result of fire, flood, strike, the transporting carrier, act of God, or by any other circumstances which are beyond the control of the bidder. Under such circumstances, however, the Village may, at its option, cancel the contract.

8.05 ASSIGNMENT:

Assignment of this contract or any part thereof, or any funds to be received there under by the contractor shall be subject to the written approval of the Village. Such assignment shall not relieve the bidder from their obligations or change the term of the contract.

8.06 WARRANTIES:

Unless otherwise specified, the bidder shall unconditionally guarantee the materials and workmanship on all equipment furnished by them FOR A MINIMUM PERIOD OF ONE YEAR from date of delivery and installation if required unless otherwise specified in the specifications. If within the guarantee period, any defects or signs of deterioration are noted which, in the opinion of the Village, are due to faulty design and installation, workmanship, or materials, the Village shall notify the bidder. At the bidder's expense, the bidder shall repair or adjust the equipment or parts to correct the condition, or replace the part or entire unit to the complete satisfaction of the Village.

8.07 INSURANCE:

At the bidder's expense, the bidder shall secure and maintain in effect throughout the duration of this contract, insurance in adequate limits to cover all locations of the bidder's operations. The bidder shall furnish certificates of insurance to the Village prior to proceeding with the obligation for services or purchases under this bid. All insurance policies shall be written with insurance companies licensed to do business in the State of Illinois and having a rating of not less than A VI, according to the latest edition of the A.M. Best Company. Additional insured status shall be provided by original endorsement as least as broad as CG 20 10 04 13 or CG 20 26 04 13.

The Bidder understands and agrees that any performance bond or insurance protection required by this contract or otherwise provided by bidder, shall in no way limit the responsibility to indemnify, keep and save harmless, and defend the Village as herein provided.

Unless otherwise specified, the limits of liability for the insurance required shall provide coverage for not less than the following amounts, or greater where required by law. Limits will be provided on a per project basis.

(a) Commercial General Liability:
(1) Coverage to include Premise/Operations, Products/Completed Operations, Independent Contractors, Broad Form Property Damage, Contractual and Personal Injury.
(2) Limits:

General Aggregate	$ 2,000,000.00
Products/Completed	$ 1,000,000.00
Each Occurrence	$ 1,000,000.00
Personal Injury	$ 1,000,000.00

(3) Coverage is to be written on an "occurrence" basis.
(4) Products/Completed Operations coverage is to remain in force for a period of two (2) years after the completion of the project.
(5) Cover all claims arising out of the contractor's operations or premises,

subcontractor's operations or premises, anyone directly or indirectly employed by the contractor or subcontractor, and the contractor's obligations of indemnification under this contract.

(b) Worker's Compensation and Employers Liability
(1) The insurance shall protect the Contractor against all claims under applicable State or Federal Worker's Compensation Laws. The Contractor shall also be protected against claims for injury, disease or death of employees which for any reason may not fall within the provisions of the Worker's Compensation Law. The policy shall include "broad form all states" endorsement coverage extended to cover all states except the monopolistic fund states.

(2) The liability limits shall not be less than:

Worker's Compensation……Statutory
Employer's Liability……..……$1,000,000 per occurrence

(c) Comprehensive Automobile Liability:
(1) Coverage to include all owned, hired, non-owned vehicles, and/or trailers and other equipment required to be licensed.
(2) Limits:
Bodily Injury and Property Damage, Combined Single Limit $1,000,000.00

8.08 INDEMNITY:

The contractor shall indemnify and save harmless the Village of Arlington Heights, its officers, agents and employees from any and all liability, losses or damages, including attorney's fees and costs of defense, the Village may suffer as a result of claims, demands, suits, actions or proceedings of any kind or nature, including worker's compensation claims, in any way resulting from or arising out of the operations of contractor under this contract, including operations of subcontractors; and the contractor shall, at his or her own expense, appear, defend and pay all fees of attorneys and all costs and other expenses arising there from or incurred in connection therewith; and, if any judgments shall be rendered against the Village in any such action, the contractor shall, at his or her own expense, satisfy and discharge same. Contractor expressly understands and agrees that any performance bond or insurance protection required by the contract, or otherwise provided by contractor, shall in no way limit the responsibility to indemnify, keep and save harmless, and defend the Village as herein provided.

8.09 CERCLA INDEMNIFICATION:

The contractor shall, to the maximum extent permitted by law, indemnify, defend, and hold harmless the Village, its officers, employees, agents, and attorneys from and against any and all liability, including without limitation, costs of response, removal, remediation, investigation, property damage, personal injury, damage to natural resources, health assessments, health settlements, attorneys' fees, and other related transaction costs arising under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, 42 U.S.C.A. Sec. 9601, et seq., as amended, and all other applicable statutes, regulations, ordinances, and under common law for any release or threatened release of the waste material collected by the contractor, both before and after its disposal.

8.10 MATERIAL SAFETY DATA SHEETS:

It is a federal law that chemical manufacturers and importers must develop an MSDS for each hazardous chemical they produce or import, and must provide the MSDS automatically at the time of the initial shipment of a hazardous chemical to a downstream distributor or user, or anytime the chemical makeup of the product is changed. Distributors must also ensure that downstream employers are similarly provided an MSDS.

Vendors who are awarded this contract, and if the above paragraph applies to this bid, must submit Material Data Sheets which include information regarding the specific chemical identity of the hazardous chemical(s) involved and the common names. In addition, information must be provided on the physical and chemical characteristics of the hazardous chemical; known acute and chronic health effects and related health information; exposure limits; whether the chemical is considered to be a carcinogen by NTP, IARC, or OSHA; precautionary measures; emergency and first-aid procedures; and the identification of the organization responsible for preparing the sheet.

8.11 EQUAL EMPLOYMENT OPPORTUNITY:

In the event of the contractor's noncompliance with the provisions of this Equal Employment Opportunity Clause, the Illinois Human Rights Act or the Illinois Department of Human Rights Rules and Regulations, the contractor may be declared ineligible for future contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations, and the contract may be canceled or voided in whole or in part, and such other sanctions or penalties may be imposed or remedies invoked as provided by statute or regulation. During the performance of this contract, the contractor agrees as follows:

(a) That it will not discriminate against any employee or applicant for employment because of race, color, religion, sex, marital status, national origin or ancestry, age, physical or mental disability unrelated to ability, or an unfavorable discharge from military service; and further that it will examine all job classifications to determine if minority persons or women are underutilized and will take appropriate affirmative action to rectify any such underutilization.

(b) That, if it hires additional employees in order to perform this contract or any portion hereof, it will determine the availability (in accordance with the Department's Rules and Regulations) of minorities and women in the area(s) from which it may reasonably recruit and it will hire for each job classification for which employees are hired in such a way that minorities and women are not underutilized.

(c) That, in all solicitations or advertisements for employees placed by it or on its behalf, it will state that all applicants will be afforded equal opportunity without discrimination because of race, color, religion, sex, marital status, national origin or ancestry, age, physical or mental disability unrelated to ability, or an unfavorable discharge from military service.

(d) That it will send to each labor organization or representative of workers with which it has or is bound by a collective bargaining or other agreement or understanding, a notice advising such labor organization or representative of the contractor's obligations under the Illinois Human Rights Act and the Department's Rules and Regulations. If any such labor organization or representative fails or refuses to cooperate with the contractor in its efforts to comply with such Act and Rules and Regulations, the contractor will promptly so notify the Illinois Department of Human Rights and the contracting agency and will recruit employees from other

sources when necessary to fulfill its obligations there under.

(e) That it will submit reports as required by the Illinois Department of Human Rights Rules and Regulations, furnish all relevant information as may from time to time be requested by the Department or the contracting agency, and in all respects comply with the Illinois Human Rights Act and the Department's Rules and Regulations.

(f) That it will have written sexual harassment policies that shall include, at a minimum, the following information: (i) the illegality of sexual harassment; (ii) the definition of sexual harassment under State law; (iii) a description of sexual harassment, utilizing examples; (iv) an internal complaint process including penalties; (v) legal recourse, investigative and process available through the Illinois Department of Human Rights and the Illinois Human Rights Commission; (vi) directions on how to contact the Department and Commission; (vii) protection against retaliation. A copy of the policies shall be provided to the Department upon request.

(g) That it will permit access to all relevant books, records, accounts and work sites by personnel of the contracting agency and the Illinois Department of Human Rights for purposes of investigation to ascertain compliance with the Illinois Human Rights Act and the Department's Rules and Regulations.

(h) That it will include verbatim or by reference the provisions of this clause in every subcontract it awards under which any portion of the contract obligations are undertaken or assumed, so that such provisions will be binding upon each subcontractor. In the same manner as with other provisions of the contract, the contractor will be liable for compliance with applicable provisions of this clause by such subcontractors; and further it will promptly notify the contracting agency and the Illinois Department of Human Rights in the event any subcontractor fails or refuses to comply therewith. In addition, the contractor will not utilize any subcontractor declared by the commission to be ineligible for contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations.

9.00 PAYMENT

9.01 INVOICES:

Unless otherwise authorized by the Finance Director, vendor must submit single invoice copies for each purchase order immediately upon completion of shipment, or services. Partial payments may be acceptable if previously approved. If shipment is made by freight or express, original bill of lading, properly receipted, must be attached to invoice. Mail all invoices to:

VILLAGE OF ARLINGTON HEIGHTS
Finance Department, Accounts Payable Division
33 S. Arlington Heights Road
Arlington Heights, Illinois 60005

The Village provides payment in compliance with the Illinois Prompt Payment Act (50 ILCS 505/1 - 505/6).

VILLAGE OF ARLINGTON HEIGHTS
AFFIDAVIT OF COMPLIANCE

Applicant

_____

Name

_____

Address

As a condition of entering into a contract with the Village of Arlington Heights, and under oath and penalty of perjury and possible termination of contract right and debarment, the undersigned, _____, being first duly sworn on oath, deposes and states that he or she is _____ (sole owner, partner, joint ventured, President, Secretary, etc..) of _____ and has the authority to
(Name of Company)
make all certifications required by this affidavit.

Section I

Non Collusion

The undersigned certifies that this bid is genuine and not collusive or sham, that said bidder has not colluded, conspired, connived or agreed, directly or indirectly, with any bidder or person, to put in a sham bid or to refrain from bidding, and has not in any manner, directly or indirectly, sought by agreement or collusion, or communication or conference with any person, to fix the bid price element of this bid, or of that of any other bidder, or to secure any advantage against any other bidder or any person interested in the proposed contract.

Section II

Bid Rigging and Rotating

The undersigned hereby certifies that it is not barred from bidding or contracting as a result of a conviction for violations of state laws prohibiting bid rigging or bid rotating or any similar offense of any state of the United States.

Section III

Illinois Drug Free Workplace Act

The undersigned further states that _____ provides
(Name of Company)
A drug free workplace pursuant to Illinois Statues, 30 ILCS 580/1, et seq and provides compliance with necessary requirements.

Section IV

Tax Payment

The undersigned further states that _____ is not
(Name of Company)
delinquent in payment of any taxes to the Illinois Department of Revenue, in accordance with Illinois Compiled Statues, 65 ILCS 5/11-42.1. The undersigned understands that making a false statement regarding delinquency in taxes is a Class A Misdemeanor and, in addition voids the contract and allows the municipality to recover all amounts paid to the individual or entity under the contract in civil action.

It is expressly understood the foregoing statements and representations and promises are made as a condition to the right of the bidder to receive payment under any award made under the terms and provisions of this bid.

The undersigned certifies that all the information contained in the Affidavit is true and correct.

Signed by: _____
(Name)
(Title)

Subscribed and sworn to before me this _____day of_____20___,AD.

By: _____
(Notary Public)

-Seal-

VILLAGE OF ARLINGTON HEIGHTS
INDEMNITY HOLD HARMLESS AGREEMENT

To the fullest extent permitted by law, the Contractor hereby agrees to defend, indemnify and hold harmless the Village of Arlington Heights, its Board of Trustees, officers, agents and employees from any and all liability, losses or damages the Village may suffer as a result of claims, demands, suits, actions or proceedings of any kind or nature in any way resulting from or arising out of any action on the part of the Contractor or any Subcontractor. The Contractor shall, at its own expense; appear, defend and pay all charges of attorneys and all costs and other expenses arising there from or incurred in connection therewith, and, if any judgment shall be rendered against the Village of Arlington Heights, its Board of Trustees, officers, agents and employees, in any such action, the contractor shall, at its own expense, satisfy and discharge the same. This indemnification does not apply to liability caused by the Village's own negligence.

The Contractor expressly understands and agrees that any insurance policies required by this contract, or otherwise provided by the Contractor, shall in no way limit the responsibility to indemnify, keep and save harmless and defend the Village of Arlington Heights, its Board of Trustees, officers, agents and employees as herein provided.

CONTRACTOR:_____

By: _____

VENDOR APPLICATION

A W-9 must be submitted with this application.

Company Name: _____

Remit To Address: Include if different than W-9 Address.
Company Name: _____
Street Address: _____
City: _____ State:_____ Zip:_____

Contact Information:
Name: _____ PH#: _____Email: _____

Vendor Classification:
In accordance with Illinois Public Act 102-0265, the Village of Arlington Heights is required to make a good faith effort to collect and publish certain demographic information provided by our vendors and subcontractors doing business with us. We are required to report whether they are a minority, woman or veteran-owned business as defined by Illinois Law. In addition, we are required to report whether the vendor is a small business under the Small Business Administration standards (SBA).

Please indicate any applicable classification below or check NA, and check if self-certified or if certified. **Submit the appropriate certification documentation with this form.**

- ☐ Small Business: Meets certification requirements as a small business under SBA standards (more information available at SBA.gov)
  Avg # of Employees: _____ Avg Annual Receipts less than $7.5M Yes No
  Self-Certified Holds Certification

- ☐ Minority-Owned Business Enterprise (MBE): A business that is at least 51 percent owned by one or more minorities. A person who is a U.S. citizen or lawful permanent resident of the United States and is African American, Hispanic American, Asian American, Native American or Native Hawaiian.
  Self-Certified Holds Certification

- ☐ Women-Owned Business Enterprise (WBE): A business that is at least 51 percent owned by a woman or women who are U. S. Citizens or lawful permanent residents of the U.S.
  Self-Certified Holds Certification

- ☐ Disability-Owned Business Enterprise (DOBE): A business that is at least 51 percent owned by a person or group of persons with a disability (per the definition in 30 ILCS 575) and who is a U.S. citizen or lawful permanent resident of the United States.
  Self-Certified Holds Certification

- ☐ Veteran-Owned Small Business (VOSB): A small business that is at least 51 percent owned, operated & controlled by a qualified veteran living in IL and its home office in IL.
  Self-Certified Holds Certification

- ☐ Not Applicable

Name of Person Completing this form:_____**Date**:_____

SPECIFICATIONS

VILLAGE OF ARLINGTON HEIGHTS

DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

Material Bid

FURNISHING OF STREETLIGHT

LIGHT EMITTING DIODE (LED) FIXTURES

GENERAL OBJECTIVE

The objective of these specifications is to define the criteria to be used in furnishing new Streetlight LED light fixtures to the Village of Arlington Heights.

SCOPE OF SERVICES

The bidder shall become fully acquainted with the nature of the materials to be furnished. The proposal shall include all costs associated with furnishing one hundred forty-two (142) Streetlight LED Lighting fixtures as specified herein. The Village reserves the right to purchase additional light fixtures at the unit prices bid herein. Said pricing shall be in effect for 30 days after the bid date. The bidder shall provide data or proof that the LED lighting fixtures proposed are as specified.

The LED streetlights must be supplied as new manufactured fixtures to fit onto existing street light arms. **Retro-fit kits will not be accepted. The existing light fixtures were not originally designed for LED lighting and the Village will not accept retrofitting of these fixtures under any circumstances.**

LOCATION

These fixtures will be installed on arterial roadway street lights in the Village of Arlington Heights. All existing high pressure sodium street lighting fixtures are to be replaced by Village staff. This bid is only for furnishing and delivery of the fixtures. There is no installation involved in this bid.

PART 1 - GENERAL CONDITIONS

The bidder shall comply with the attached "General Conditions - Purchasing" unless specifically modified in these specifications.

INSTRUCTION TO BIDDERS

The bidder shall comply with the attached "Instructions to Bidders" unless specifically modified in these specifications.

DELIVERY

Provisions will be made to deliver the specified products carted, crated, or packaged to mitigate material damage. Materials to be delivered to the Arlington Heights Public Works Department, 222 N Ridge Avenue, Arlington Heights, IL 60005, Attention Traffic Unit. Contact Public Works prior to delivery at (847)368-5800.

PAYMENT

Payment will be made at the total bid price or the applicable unit price for additional fixtures and shall include all costs of furnishing and delivering the LED light fixtures. No payment will be made for any material damaged in transit, or material malfunctioning. Provisions shall be made by the bidder to facilitate return or pick-up of any damaged materials at no cost to the Village, irrespective of any stated warranties.

PART 2 – DETAILED SPECIFICATIONS

STREET LIGHT FIXTURE

The LED roadway fixture unit supplied shall be a COOPER LIGHTING GROUP LED Street Luminaire – Streetworks Archeon Large Series fixture. NO substitutions will be acceptable.

LUMINAIRE SPECIFICATIONS

The luminaires shall have the following options:

ARCH-L-PA3-280-740-U-2TR-AP-20K-K-PR7

Product – ARCH
Optic – T2R Type II Roadway
Input Power – 280w
CCT – 740=70 CRI 4000k
Voltage – Universal 120 -277v
Color Option – Grey
Utility Label/Receptacle – 7 pin twistlock NEMA Photocell Receptacle
Options – Series 20k surge protection devise

LIGHT SOURCE

LED Correlated Color Temperature must be 4000K (+/-175k), and a minimum Color Rendering Index (CRI) of 70. The CRI shall be measured with LEDs installed in the fixture.

WARRANTY

The luminaires shall be free from all defects in materials and workmanship for a period of ten (10) years from the date of manufacture.

The luminaire's manufacturer shall warrant the LED boards/system, during the stated warranty period, against failure defined as one non-operating LED.

The driver as specified shall be warranted for ten (10) years.

A full sheet of product specifications must be submitted at the time of bid.

SUBMITTALS

The following information must be submitted with the bidder's proposal and required certifications.

1. Lighting Facts label
2. Verification of UL or ETL listing in United States for both luminaires and drivers.
3. Manufacturer's Lumen maintenance projections.
4. LM-80-08 report for specified light source(s).

5. Photometric test reports for each fixture type performed in accordance with LM-79-08. Including Goniophotometry testing reports for each fixture type and Integrated Sphere testing reports for each fixture type.
6. Calculations for fixture to document foot candles levels and uniformity.
7. Report or certification documenting the luminaire be supplied with line-ground, line-neutral and neutral-ground electrical surge protection in accordance with IEEE/ANSI C62.41.2 guidelines.
8. Written 10-year warranties for luminaires and drivers.
9. Reference List
10. Full set of cut sheets and product specifications of fixture.

BID AWARD

The Village shall award this bid based on the quality of the proposed fixtures, compliance with the specifications and submittal requirements, and the ability of the proposing company to support these fixtures for their intended life.

The Village reserves the right to waive technicalities and choose the fixtures that serve the best interest of the Village and its residents.

PROPOSAL

VILLAGE OF ARLINGTON HEIGHTS
PUBLIC WORKS AND ENGINEERING DEPARTMENT

FURNISHING OF COOPER LIGHTING GROUP
ARCHEON LED STREETLIGHT FIXTURES – LARGE

After becoming familiar with the General Conditions, Special Conditions, Instruction to Bidders, and the Specifications herein, the undersigned proposes to furnish to the Village of Arlington Heights as follows:

	TOTAL BID PRICE
Fixture ARCH-L-PA3-280-740-U-2TR-AP-20K-K-PR7	
Fixture price	$ _____
Quantity Total	142
TOTAL BID PRICE INCLUDING SHIPPING	**$ _____**
(Price for Single Fixture Purchase)	$ _____

Materials to be delivered within 60 days of award.

BIDDER'S COMPANY NAME: _____

ADDRESS: _____

AGENT'S SIGNATURE: _____ TITLE: _____

PHONE NUMBER: _____ DATE: _____

EMAIL: _____

References

List below the names of customers/clients where similar types of work have been completed within the last three (3) years:

NAME OF COMPANY _____

ADDRESS _____

PERSON IN CHARGE _____

PHONE NUMBER _____

TYPE OF WORK DONE _____

NAME OF COMPANY _____

ADDRESS _____

PERSON IN CHARGE _____

PHONE NUMBER _____

TYPE OF WORK DONE _____

NAME OF COMPANY _____

ADDRESS _____

PERSON IN CHARGE _____

PHONE NUMBER _____

TYPE OF WORK DONE _____

PROPOSAL

VILLAGE OF ARLINGTON HEIGHTS
PUBLIC WORKS AND ENGINEERING DEPARTMENT

FURNISHING OF COOPER LIGHTING GROUP
ARCHEON LED STREETLIGHT FIXTURES – LARGE

After becoming familiar with the General Conditions, Special Conditions, Instruction to Bidders, and the Specifications herein, the undersigned proposes to furnish to the Village of Arlington Heights as follows:

	TOTAL BID PRICE
Fixture ARCH-L-PA3-280-740-U-2TR-AP-20K-K-PR7	
Fixture price	$ $436.25
Quantity Total	142
TOTAL BID PRICE INCLUDING SHIPPING	**$** $61,947.5
(Price for Single Fixture Purchase)	$ $436.25

Materials to be delivered within 60 days of award.

BIDDER'S COMPANY NAME: Graybar

ADDRESS: 1 Pierce PL Suite 800, Itasca IL

AGENT'S SIGNATURE: MITCHELL MIGUEL TITLE: SALES

PHONE NUMBER: 847-287-576 DATE: 03/31/2026

EMAIL: MITCHELL.MIGUEL@GRAYBAR.COM

References

List below the names of customers/clients where similar types of work have been completed within the last three (3) years:

NAME OF COMPANY VILLAGE OF NORTHBROOK

ADDRESS 655 HUEHL RD, NORTHBROOK, IL

PERSON IN CHARGE JOE RIZZO

PHONE NUMBER 847-571-020

TYPE OF WORK DONE STREET LIGHTING

NAME OF COMPANY WILMETTE PUBLIC SCHOOL DISTRICT

ADDRESS 615 LOCUST RD WILMETTE, IL

PERSON IN CHARGE PATRICK HOSLER

PHONE NUMBER 847-716-073

TYPE OF WORK DONE INDOOR LIGHTING

NAME OF COMPANY CITY OF EVANSTON

ADDRESS 2020 ASBURY AVE EVANSTON, IL

PERSON IN CHARGE JOHN MCDONALD

PHONE NUMBER 847-448-829

TYPE OF WORK DONE STREET LIGHTING

VILLAGE OF ARLINGTON HEIGHTS
INC. 1887

Village Board of Trustees
4/20/2026

Item: Resolution Approving a Contract for Regency Court Lift Station Reconstruction

Department: Public Works & Engineering

Item Description:

The 2026 Capital budget includes $1,200,000 for the rehabilitation of the Regency Lift Station, located at Regency Court West. The Village currently maintains and operates twelve different system lift stations, (six for stormwater and six for sanitary/combined sewer).

In 2024, staff worked with a consulting engineer to evaluate the condition of some of the system lift stations in the greatest need of attention. This information was used to develop a comprehensive budget planning benchmark and a long-term multi-year (20 years) strategy to address these important components of the Village's utility system, systematically over time.

The Regent Lift Station was constructed in 1963 and serves the Regent Park residential area. This station services 230 individual parcels, consisting of single family, multi-family, and apartment-complex properties.

The station consists of both a wet and dry well, which means operators are required to climb down a 27-foot dry well shaft in order to maintain the necessary pumps and motors. Current designs have generally changed to utilize submersible pumping and motor components, which remain below ground, within the wet well. This allows for all maintenance activities to occur above ground. Pumps and motors are housed on tracks, which allow crews to raise and lower them for required maintenance and to more rapidly address failures. The new design would eliminate the 27-foot dry well and install the pumps and motors in a new wet well. The project would also update and improve the system control panel and will provide a back-up power supply for emergencies.

This project was duly advertised, and five different bid proposals were publicly opened on April 2, 2026. Martam Construction Inc. was the lowest responsible bidder.

The Village's consulting engineer and staff have reviewed the contractor's qualifications and references and have no concern with Martam Construction Inc. (Engineer's Letter of Recommendation attached).

The bid amount is under the engineer's estimate of $1,300,000, which was based upon awarded unit prices.

BIDDER	TOTAL BID
Martam Construction Inc.	$1,214,438.00
John Neri Construction Co.	$1,336,105.00
Performance Construction & Engineering	$1,470,732.00
Bolder Contractors, Inc.	$1,524,530.00
H. Linden & Sons Sewer & Water, Inc.	$1,729,782.00

Funding ($1,200,000) for these services is available in Account No. 505-9001-550250 (SW2502). The remaining portion, along with the required construction observation services, which is provided under a separate agenda item, is available in the Water and Sewer Fund, Account No. 505-9001-550250, from savings realized on other projects.

RECOMMENDATION

It is recommended that the Village Board approve a Resolution awarding a contract for the reconstruction project for the Regent Sanitary Lift Station Reconstruction to Martam Construction Inc., Elgin, Illinois, in the amount of $1,214,438.00 and authorize the execution of the necessary documents.

ATTACHMENTS:

1. 20260420_RegencyLiftStationReconstruction

VILLAGE OF ARLINGTON HEIGHTS

RESOLUTION NO. _____

A RESOLUTION APPROVING THE AWARD OF A CONTRACT
FOR REGENCY LIFT STATION RECONSTRUCION PROJECT
TO MARTAM CONSTRUCTION INC., OF ELGIN, ILLINOIS

WHEREAS, the Village sought bids for the award of a contract for the Regency Court Lift Station Reconstruction Project (*"Contract"*); and

WHEREAS, Martam Construction Inc., of Elgin, Illinois (*"Contractor"*), was the lowest responsible and responsive bidder of the firms that submitted bid packages to the Village for the Contract; and

WHEREAS, the Village President and Board of Trustees have determined that entering into the Contract with Contractor will serve and be in the best interest of the Village and its residents;

NOW, THEREFORE, BE IT RESOLVED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF ARLINGTON HEIGHTS, COOK COUNTY, ILLINOIS, as follows:

SECTION 1. RECITALS. The facts and statements contained in the preamble to this Resolution are found to be true and correct and are hereby adopted as part of this Resolution.

SECTION 2. APPROVAL OF CONTRACT. The Board of Trustees hereby approves the Contract by and between the Village and Contractor, in substantially the form attached to this Resolution as Exhibit A, and in a final form and substance acceptable to the Village Administrator and Village Attorney.

SECTION 3. EXECUTION OF CONTRACT. The Village Manager and the Village Clerk are hereby authorized and directed to execute and attest, on behalf of the Village, the Contract upon receipt by the Village Clerk of at least one original copy of the Contract executed by Contractor; provided, however, that if the executed copy of the Contract is not received by the Village Clerk within 30 days after the effective date of this Resolution, then this authority to execute and attest will, at the option of the President and Board of Trustees, be null and void.

SECTION 4. EFFECTIVE DATE. This Resolution will be in full force and effect from and after its passage and approval as provided by law.

AYES:

NAYS:

PASSED AND APPROVED THIS ___ day of _____, 20__.

_____
Village President

ATTEST:

_____
Village Clerk

EXHIBIT A

CONTRACT

Village of Arlington Heights

33 South Arlington Heights Road
Arlington Heights, Illinois 60005
847-368-5000
www.vah.com

NOTICE OF AWARD

Martam Construction, Inc.
1200 Gasket Drive
Elgin, IL, 60120

April 20, 2026

Project Description: Regency Court Lift Station Reconstruction

T**he Village of Arlington Heights has considered the proposal submitted by your Company for the above-desc**ribed work in response to its INVITATION FOR BIDS opened April 2, 2026.

YOU ARE HEREBY NOTIFIED that your proposal/bid has been accepted by the Village Board on April 20th, 2026 for items and services up to the amount of: **One Million, Two Hundred Fourteen Thousand, Four Hundred Thirty-Eigh**t **Dollars and 00/100ths** ($1,214,438.00).

You are required to execute the Contract Documents and provide necessary Insurance documentation within Fifteen (15) days from the date of this Notice to you.

If you fail to execute said Contract within Fifteen (15) days from the date of this Notice, said Owner will be entitled to consider all your rights arising out of the Owner's acceptance of your proposal as abandoned and the Owner will be entitled to such other rights as may be granted by law. Please return signed contracts to Lisa Subrin.

You are required to return an acknowledged copy of this Notice of award to the Village, with two signed copies of the contract.

Dated this 20th day of April, 2026

Village of Arlington Heights

By: _____

Lisa Subrin, Purchasing Coordinator

Acceptance of Notice

Receipt of the above Notice of Award is acknowledged by Martam Construction, Inc. this _____ of _____ (month), 2026.

By: _____

Title: _____

VILLAGE OF ARLINGTON HEIGHTS
CONTRACT

This Agreement is made and entered into this 20th day of April, 2026, between the Village of Arlington Heights "Village" and Martam Construction, Inc., "Vendor."

In consideration of the mutual benefits that will result to the parties in carrying out the terms of this Agreement, the parties agree as follows:

1. The Vendor agrees to do all the work, furnish all materials and all labor necessary to complete the work in full compliance with all of the terms of this agreement and the proposed specifications and the requirements of the Director under it;
2. The Village agrees to pay the Vendor based on unit prices for completion of the work in accordance with the bid documents;
3. It is understood and agreed that the Bid Documents, Specifications, Addenda, and the Bidder's response are all essential documents for the Regency Court Lift Station Reconstruction Project. They are attached and hereby made part of this agreement.

IN WITNESS WHEREOF, the Parties have executed this Agreement on the date indicated above.

Attest: Village of Arlington Heights

_____ By:_____
Clerk
(Seal) Title: _____

Date:_____

Attest:

Bidder:

By:_____

_____ Title:_____
Notary
(Seal) Date:_____

Subscribed & sworn before me this _____day of _____2026.

VILLAGE OF ARLINGTON HEIGHTS
FINANCE DEPARTMENT, PURCHASING DIVISION
33 S. ARLINGTON HEIGHTS ROAD

BID SPECIFICATIONS AND CONTRACT DOCUMENTS

REGENCY COURT LIFT STATION RECONSTRUCTION

Required for Use by:	Village of Arlington Heights- Public Works
Bid Deposit:	10% of bid
Performance Bond:	100% of bid
Pre-Bid Meeting:	Thursday, March 19, 2026, 10:00 a.m., Village of Arlington Heights – Public Works, 222 N. Ridge Avenue, Arlington Heights, IL 60005
Date and Time Bids Due:	Submit electronically by: Thursday, April 2, 2026, 1:00 p.m.
Date and Time of Bid Opening:	Thursday, April 2, 2026, 1:00 p.m., Village Hall, Village of Arlington Heights
Project Contact:	Scott Schweda, sschweda@vah.com, (847) 368-5800
Purchasing Coordinator:	Lisa Subrin, lsubrin@vah.com, 847-368-5509

This bid is utilizing our Electronic Bid Management System:

* Please see the Bid Notice for the link to access the bid documents and instructions.

* If you have ever done business with the Village of Arlington Heights or if your company has reviewed a bid electronically with us, you ALREADY have a vendor number assigned to you. Please follow the instructions to LINK to your vendor # and do NOT create **a new vendor #.** Please contact Lisa Subrin if you do not know your vendor number. Your vendor number can also be found on our POs and checks.

* It is imperative that you register as a vendor and be logged in PRIOR TO VIEWING the Bid Documents. This is the only way to connect you to the bid and allow us to send you updates, such as addendums.

* Required documents to be submitted with this bid are: Bid Bond, Bid Proposal Page, Vendor Application Form, and signed addendum, if applicable.

* Please allow yourself enough time to submit your bid before the bid closes.

In the event bidder cannot submit a bid on the requirements as set forth in the bid documents, he or she should return the bid documents with an explanation as to why he or she is unable to bid on these requirements. Because of the large number of firms listed on the Village's qualified bidder's list, it is necessary to delete from these lists the names of those persons, firms or corporations who fail to respond after having been invited to bid on a commodity or commodities.

SECTION 1 – PROPOSAL

TITLE

Bid Notice

Pre-Bid Conference
General Conditions and Instructions to Bidders
Special Conditions
Affidavit of Compliance
Indemnity Hold Harmless Agreement
Vendor Questionnaire
Proposal

SECTION 2 – SPECIAL PROVISIONS AND SPECIFICATIONS

TITLE

Index for Supplemental Specifications and Recurring Special Provisions
Recurring Special Provisions
BDE Special Provisions
Special Provisions

SECTION 3 – LIFT STATION TECHNICAL SPECIFICATIONS

TITLE

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Technical Specifications

APPENDIX A

TITLE

Cook County Prevailing Wage
Geotechnical Investigation
PH Test Result

VILLAGE OF ARLINGTON HEIGHTS
REGENCY COURT LIFT STATION

SECTION 1

PROPOSAL

BID NOTICE

REGENCY COURT LIFT STATION RECONSTRUCTION
Bid # 260008

The Village of Arlington Heights will accept sealed bids electronically for the Regency Court Lift Station Reconstruction until 1:00 p.m. local time on Thursday, April 2, 2026, at which time they will be publicly opened and read.

The above designated work and improvements referred to as REGENCY COURT LIFT STATION RECONSTRUCTION shall include selective demolition of existing can-type pump station; Construction of new wet well with duplex submersible pump operation including new wet well top with access hatch; Dewatering as required; Installation of new submersible solids handling pumps with constant speed drives and controls; Associated electrical and instrumentation work; New valve / meter / bypass vault; New electrical service; New traffic box control panel; New natural gas engine generator; Contractor bypass pumping as needed; Concrete generator and control panel pads; Concrete restoration; Site grading and landscape restoration. The locations for this work are shown in the Contract Documents. This work shall be to the requirements as indicated in the Contract Specifications.

A Non-Mandatory Pre-Bid Conference will be held on Thursday, March 19, 2026 at 10:00 a.m. at Village of Arlington Heights – Public Works, 222 N. Ridge Avenue, Arlington Heights, IL 60005.

The Affidavit of Availability must be submitted with the proposal, showing all uncompleted contracts awarded to them and all low bids pending award for Federal, State, County, Municipal and private work.

Bidders shall comply with the Prevailing Wage Rate Act (820 ILCS 130/), the IDOT Standard Specifications for Road and Bridge Construction, adopted January 1, 2022, the IDOT Supplemental Specifications and Recurring Special Provisions, adopted January 1, 2026, and the current edition of the Standard Specifications for Water and Sewer Construction in Illinois. Bidders will also be required to comply with the applicable equal employment opportunity provisions.

All proposals or bids offered must be accompanied by a bid security in the amount of 10% of the total bid in the form of a certified check, bid bond or cashier's check made payable to the Village of Arlington Heights. No bids shall be considered unless accompanied by such security.

Bidders shall comply with the Prevailing Wage Rate Act (820 ILCS 130). Bidders will also be required to comply with the applicable equal employment opportunity provisions.

The Village of Arlington Heights reserves the right to reject any or all proposals, to waive informalities in bidding and to accept the proposal deemed by the Board of Trustees to be the most favorable to the interests of the Village.

This bid is utilizing our Electronic Bid Management System and specifications/bid documents may be obtained with the following link and instructions. This information and link can also be found at www.vah.com

https://vilofarlingtonheightsil.munisselfservice.com/vss/Vendors/VBids/Default.aspx

Type in the bid # and click search. Next click on the bid #, and then click on the attachments on the right-hand side to find instructions on How to Register and Submit a Bid.

* If you have ever done business with the Village of Arlington Heights or if your company has reviewed a bid electronically with us, you ALREADY have a vendor number assigned to you. Please follow the instructions to LINK to your vendor # **and do NOT create a new vendor #.** Please contact Lisa Subrin if you do not know your vendor number. Your vendor number can also be found on our POs and checks.

* It is imperative that you register as a vendor and be logged in PRIOR TO VIEWING the Bid Documents. This is the only way to connect you to the bid and allow us to send you updates, such as addendums.

Contact Lisa Subrin, Purchasing Coordinator, at lsubrin@vah.com, if you have issues accessing the bid.

For a list of our current bids, visit our website at www.vah.com.

PRE-BID CONFERENCE

REGENCY COURT LIFT STATION RECONSTRUCTION

A Non-Mandatory Pre-Bid Conference will be held on Thursday, March 19, 2026 at 10:00 a.m. at Village of Arlington Heights – Public Works, 222 N. Ridge Avenue, Arlington Heights, IL 60005.

Bidder's questions will be responded to at that time only. It is suggested, but not required, that any questions regarding the bid documents be submitted to Scott Schweda, prior to the Pre-Bid Conference, in order to allow the Village sufficient time to adequately research and prepare a response for the conference.

Scott Schweda
Utility Superintendent
sschweda@vah.com
(847) 368-5800

VILLAGE OF ARLINGTON HEIGHTS
GENERAL CONDITIONS AND INSTRUCTIONS TO BIDDERS
PUBLIC IMPROVEMENTS/CONSTRUCTION

THE GENERAL TERMS AND CONDITIONS WHICH FOLLOW APPLY TO ALL PURCHASES AND SERVICES AND BECOME A DEFINITE PART OF EACH FORMAL INVITATION TO BID, PURCHASE ORDER, OR CONTRACT ISSUED BY THE VILLAGE OF ARLINGTON HEIGHTS ("VILLAGE"), UNLESS OTHERWISE SPECIFIED. BY SUBMITTING A BID, THE BIDDER AGREES TO BE BOUND BY THESE TERMS AND CONDITIONS. BIDDERS OR THEIR AUTHORIZED REPRESENTATIVES ARE EXPECTED TO FULLY INFORM THEMSELVES OF THE CONDITIONS, REQUIREMENTS, AND SPECIFICATIONS BEFORE SUBMITTING BIDS, FAILURE TO DO SO WILL BE AT THE BIDDER'S OWN RISK AND WILL NOT SECURE RELIEF ON THE PLEA OF ERROR.

1.01 PREPARATION OF PROPOSALS:

The bidder shall submit their sealed bid proposal on the proposal forms provided and shall be submitted electronically through the Bid Management System. The bidder shall specify in figures, in the places provided, a price for each of the separate items called for in the proposal forms. All information required by the bidding documents must be supplied to constitute a responsive bid.

All bid/proposals should be submitted electronically through the Bid Management System prior to the time specified for opening the bid. If a bid cannot be submitted electronically, please contact the Purchasing Coordinator.

If the bidder is a corporation, the legal name of the corporation, the state of incorporation and the business address shall be set forth together with signature of the officer or officers authorized to sign contracts on behalf of the corporation and attested by the secretary of the corporation. The corporate seal shall also be affixed. If the bidder is partnership, the true name and seals shall also be affixed. If the bidder is a partnership the true name and address of the firm shall be set forth together with the signatures of authorized partners. If the bidder is an individual, the signature and address shall be inscribed. If the signature is by an agent other than an officer of the corporation or member of the partnership, a power of attorney must be submitted with the bid, otherwise, the bid may be regarded as irregular. All names must be printed below the signature.

1.02 BID SECURITY:

No bid will be considered unless accompanied by a bid security as defined in the Invitation to Bid as a guarantee that if the bid is accepted the bidder will execute the agreement and file bonds and insurance's required by the contract documents. Bid securities shall be made payment to the Village of Arlington Heights. In the event that the bidder fails to furnish the required bonds and insurance within ten (10) calendar days after notice of acceptance of the bid by the Village, then the bid deposit of the bidder shall be retained by the Village as liquidated damages, it being now agreed that said sum is a fair estimate of the amount of damages that said Village will sustain due to the bidder's failure to furnish said bond.

1.03 BID SUBMITTAL:

Each sealed bid properly signed together with the bid security and all documents bound herewith shall submitted electronically through the Bid Management System prior to the time specified for opening the bid. If a bid cannot be submitted electronically, please contact the Purchasing Coordinator.

1.04 WITHDRAWAL OF BID:

No bid shall be withdrawn after the opening of any bid without the consent of the Village. Any bid may be withdrawn at any time prior to the hour fixed in the Invitation for Bids for the opening of bids provided that a request in writing executed by the bidder or duly authorized representative for the withdrawal of such bid is filed with the owner prior to the time specified for the opening of bids.

1.05 AWARDING THE BID:

The contract will be awarded to the lowest responsible bidder, or any other bidder determined by the Village Board to be in the best interest of the Village, who complies with all the provisions of the invitation to bid. The Village reserves the right to reject any or all bids or to waive any non-conformity in bids received whenever such rejection or waiver is in the best interests of the Village. The Village also reserves the right to reject the bid of a bidder who has previously failed to satisfactorily perform a contract, has not completed contracts on time, or whom an investigation shows is not in a position to perform the contract.

In determining responsibility, the following qualifications will be considered by the Village:

(a) The ability, capacity, and skill of the bidder to perform the contract or provide the service required;

(b) Whether the bidder can perform the contract or provide service promptly, or within the time specified, without delay or interference;

(c) The character, integrity, reputation, judgment, experience, and efficiency of the bidder;

(d) The quality of performance of previous contracts or services;

(e) The previous and existing compliance by the bidder with laws and ordinances relating to the contract or service;

(f) The sufficiency of the financial resources and ability of the bidder to perform the contract or provide the service;

(g) The quality, availability, and adaptability of the supplies or contractual services to the particular use required;

Except as otherwise provided by law, the Village Mayor and Board of Trustees reserves the right to reject any or all bids and to waive any informality in the bids received.

2.00 WORK COVERED BY CONTRACT DOCUMENTS:

The work comprises the completed Public Improvements/Construction required by

the contract documents and includes all labor necessary to produce such Public Improvements/Construction and all materials and equipment incorporated or to be incorporated in such Public Improvements/Construction.

3.00 CONTRACTOR:

The contractor is the person or entity identified as such in the owner-contractor agreement and is referred to throughout the contract documents as if singular in number. The term contractor means the contractor or an authorized representative.

4.00 DEFINITION OF TERMS:

Wherever used in these General Conditions, or in the other contract documents, the following terms have the meanings listed and include singular and plural; persons referred to throughout the contract documents are as if singular in number.

4.01 AWARD:

The decision of the Village to accept the proposal of a responsible bidder for the work, subject to the execution and approval of the contract and contract bond to secure performance, and such other conditions as may be specified or otherwise required by law.

4.02 BIDDER:

Any individual, firm or corporation submitting a proposal for the work, acting directly or through a duly authorized representative.

4.03 BID PROPOSAL SECURITY (PROPOSAL GUARANTEE):

The security furnished with the bid to guarantee that the bidder will enter into the contract for the work contemplated.

4.04 CONTRACT/AGREEMENT:

The contract represents the entire and integrated agreement between the Village and contractor and supersedes all prior negotiations, representations or agreements either written or oral. The contract may be amended, or modified in writing signed by both parties.

4.05 CONTRACT BOND:

The form of security approved by the Village and furnished by the contractor and the contractor's surety as a guarantee of good faith and ability on the part of the contractor to execute the work in accordance with the terms of the contract.

4.06 CONTRACT DOCUMENTS:

The contract documents consist of the Village/Contractor agreement, the conditions of the contract (general), supplementary or special and other conditions, the plans, specifications, addenda and all modifications (written amendments, change orders, written interpretations or other written orders), and the contract bond when required.

4.07 CORPORATION:

A corporate body authorized or licensed to do business in Illinois.

4.08 ENGINEER:

When the word "Engineer" appears in the specifications it shall mean the Village Engineer of the Village of Arlington Heights, Illinois or those designated by the Village Engineer.

4.09 OBSERVER:

The Village's authorized representative assigned to observe any or all portions of the work and materials being used for the project.

4.10 OWNER/VILLAGE:

When the word "Owner" or "Village" appears in the specifications they shall mean the Village of Arlington Heights, Illinois, a municipal corporation of the State of Illinois, 33 South Arlington Heights Road, Arlington Heights, Illinois 60005.

4.11 PLANS:

All official drawings or reproductions of drawings pertaining to the work provided for in the Contract.

4.12 PROJECT MANUAL:

The booklet (manual) which includes the bidding requirements, conditions of the contract, the proposal, specifications.

4.13 BID PROPOSAL:

The written offer of the bidder to perform the work proposed, presented to the Village.

4.14 SPECIAL CONDITIONS:

Special conditions, when included in these contract documents, shall act to supplement these general conditions, the attached specifications and the plans on particular portions of the project. They shall govern the contract documents wherever they conflict therewith; but shall not annul the portions of the contract documents with which they do not conflict.

4.15 SPECIFICATIONS:

The body of descriptions, conditions and requirements contained in the contract, together with written agreements and all documents of any description made or to be made pertaining to the method or manner of performing the work, the quantities, or the quality of materials to be furnished under the contract.

The specifications have abbreviated sections and may include incomplete sentences. Omissions of phrases such as "The Contractor Shall" or "Complying with the requirements of" are intentional. Omitted words or phrases shall be supplied by inference in the same manner as they are when a "note" occurs on the drawings, words in the singular shall include the plural wherever applicable, or as the context so indicates.

4.16 SURETY:

The corporate body, acceptable to the Village, bound with and for the contractor to insure acceptable performance of the contract and for payment of all obligations pertaining to the work.

4.17 MISCELLANEOUS DEFINITIONS:

(a) "Provide" means furnish, fabricate, complete, deliver, install, and erect, including all labor, materials, equipment, apparatus, appurtenances, and expenses necessary to complete in place, ready for operation or use.

(b) "Shall" means mandatory.

(c) "As Required" means as prescribed by the contract documents.

(d) "As Necessary" means essential to the completion of the work.

(e) "Or Equal" means a substitute meeting the exact specification of those items so stated on the drawings, details, and/or the specifications and approved by the Village before bids are submitted.

5.00 CONTRACT DOCUMENTS

5.01 OWNERSHIP OF PLANS AND SPECIFICATIONS:

All plans and specifications and copies thereof furnished by the Village are Village property. They are not to be used on other work and with the exception of one complete set, are to be returned to the Village on request, at the completion of the contract work.

5.02 EXAMINATION OF CONTRACT DOCUMENTS AND THE SITE OF PROPOSED WORK:

The bidder shall, before submitting a bid, carefully examine the contract, including the proposal, specifications, general and special conditions. The bidder shall inspect the site of the proposed work and become familiar with all the local conditions

affecting the contract and detailed requirements of Public Improvements/Construction. If the bidder's bid is accepted, the bidder will be responsible for any errors in the proposal resulting from failure or neglect to comply with these instructions. The Village will, in no case, be responsible for any change in anticipated profits resulting from such failure or neglect.

5.03 INTENTION OF CONTRACT DOCUMENTS:

The contract documents are complementary; what is called for by one is as binding as if called for by all. The contractor shall bring any conflict, errors, or discrepancies in the contract documents to the attention of the Village in writing before proceeding with the work affected thereby.

Any work that may reasonably to be inferred from the specifications or plans as being required to produce the intended result shall be provided by the contractor whether or not it is specifically mentioned or shown.

5.04 BID PROPOSAL SECURITY (PROPOSAL GUARANTEE):

Each proposal shall be accompanied by a bid proposal security (see Section 1.02). A bid proposal security shall be a properly certified check, bank draft, bank cashier's check or bid bond for ten percent (10%) of the amount of the bid as prescribed herein, made payable to the Village. The proposal guarantee will be returned within five (5) business days after the bid opening date to all but the successful bidder, and one alternate bidder to be designated by the Village. The proposal guarantee of the successful bidder and the alternate bidder will be returned as soon as the contract bond, insurance policies and certificates are in proper order, delivered to the Village and the contract has been fully executed by the bidder to whom the contract is awarded.

5.05 BONDING REQUIREMENTS:

(a) Performance and Payment Bond. All bonds must comply with all laws including, but not limited to 820 ILCS 130/4 (c). The Contractor will provide both a Performance and Payment Bond each for 100% of the contract price with a minimum "A" rating as defined in Best's Key Rating Guide and be conditioned on the faithful performance of the requirements of the contract, and will have as surety a corporate surety authorized to act as such in Illinois and that the Contractor will be responsible for all claims for injuries to persons or damages to property or premises arising out of or in connection with his or her operations prior to the acceptance of the finished work or supplies, and that he or she will promptly make payments to all persons supplying them with labor or materials in the prosecution of the work provided for in the Contract; and will guarantee to indemnify and hold harmless the Village and its officers and employees for all costs, damages and expenses arising out of or by reason of the contractor's failure to comply and perform the work and to complete the contract in accordance with the specifications.

(b) Failure on the part of the contractor to obtain and deliver a Surety, Performance, and Payment Bonds, acceptable to the Village, within fifteen (15) calendar days from the date of Notice of Award of contract will be considered just cause for the annulment of the Award and the forfeiture of the bid proposal security to the Village.

5.06 CONFLICTS BETWEEN DIRECTIVES:

Where conflict exists within or between parts of the contract documents and applicable standards, codes or ordinances, the more stringent or higher quality requirements shall apply. Large scale drawings take precedence over smaller scaled drawings, figured dimensions on the drawings over scaled dimensions, and noted materials over graphic representations.

5.06 BID PROPOSAL:

The bidder shall submit a sealed bid proposal on the attached proposal forms. Prices quoted must be valid for a minimum of sixty (60) days from the date of the bid opening.

Proposals that contain omissions, erasures, alterations, irregularities of any kind, or not accompanied by the proper proposal guaranty may be rejected. However, the owner reserves the right to reject or accept any and all proposals and to waive technical error as may be deemed in the best interest of the Village.

Late bids shall not be considered and will be returned unopened.

(a) Unit Price Bid:

(1) Bidders will be furnished with a unit price bid proposal form, attached to the project manual, stating the items of work contemplated and the approximate estimated quantities. It is the result of careful calculations and is believed to be correct, but it is given only as a basis for comparison of proposals and the award of the contract. The Village does not expressly or by implication agree that the actual quantities involved will correspond exactly therewith; nor shall the bidder plead misunderstanding or deception because of such estimates or of the character, location, or other conditions pertaining to the work. The contractor shall verify these quantities before bidding.

(2) Payment will be based on the actual quantities of work performed in accordance with the contract, at the contract unit prices specified. No allowance will be made for any change in anticipated profits due to an increase or decrease in the original estimate of quantities. The Village reserves the right to omit any item entirely, or to increase or decrease any or all items.

(3) The project manual states the date, time and place of filing and opening of bid proposals.

(4) The bidder shall submit a bid proposal on the forms attached hereto after he or she has made the examinations required as part of these general conditions.

(b) Lump Sum Bid: Bidders will be furnished with a lump sum bid proposal form, attached to the project manual, for the work to be performed.

6.00 LAWS, PERMITS AND REGULATIONS:

(a) The contractor shall at all times observe and comply with all federal, state and local laws, regulations, and ordinances. Any complaint, claim or action brought against the contractor for failing to observe or comply with any law, ordinance, or regulation shall be the sole responsibility of the contractor and shall in no way extend to or expose the owner to liability. The contractor shall indemnify and hold harmless the Village from any and all such complaints, claims or actions. In

addition, the contractor agrees to comply with all applicable statutes regarding prevailing wage laws.

(b) The contractor shall secure the construction permits and all other permits, licenses, and inspections necessary for the proper execution and completion of the work which are customarily secured after execution of the contract. The Village of Arlington Heights will waive all fees for permits required for proposed work. The contractor is responsible for securing and payment of an Arlington Heights Business License and any State Licensing required to complete the proposed work.

(c) It is not the responsibility of the contractor to make certain that the contract documents comply with applicable laws, statutes, building codes and regulations. However, if the contractor observes that any of the contract documents do not comply with applicable laws, shall promptly notify the Village in writing.

(d) If the contractor performs any work knowing it to be contrary to such laws, ordinances, rules and regulations, and without notice to the Village, the contractor shall assume full responsibility and shall bear all costs attributable thereto.

(e) All work done under the contract shall be done to the satisfaction of the Village who will in all cases determine the amount of work done which is to be paid for under the contract. The Village will decide all questions that may arise regarding the measurements of quantities and the fulfillments of this contract on the part of the contractor, and will determine all questions concerning the true intent or meaning of the plans and specifications and this determination and decision will be final and conclusive.

(f) The contractor and all subcontractors shall be licensed within the Village of Arlington Heights and the State of Illinois where applicable and shall provide indemnity bonds required by the Village Code.

6.01 PREVAILING WAGE:

Pursuant to the requirements of the State of Illinois Department of Labor, there have been established minimum scales of hourly wages to be paid in each classification of labor under this contract. The contractor and each subcontractor shall pay wages equal to or greater than the established minimum scales or hourly wages as determined by the State of Illinois Department of Labor. The wage rate set forth shall in no way be construed to prevent the contractor or subcontractors from paying a higher rate of wages. If any crafts establish a higher minimum wage in the district during the construction, the higher minimum wage established shall be considered as having also been established as the minimum wage scale under this contract. The contractor shall incorporate all applicable minimum wage rates published prior to the date of the bid opening into the contract documents. It shall be the responsibility of the successful contractor to monitor the prevailing wage rates as established with the Department of Labor for any increase in rates during the project and adjust wage rates accordingly. Prevailing wages rates are available via the internet at www.state.il.us/agency/idol. Contractors/subcontractors are responsible for checking on all rate revisions to the prevailing wage rate act for the contract duration.

Pursuant to 820 ILCS 130/5.1, as of September 1, 2020 all contractors are to submit signed certified payroll to the Illinois Department of Labor during those months when construction on a public works project has occurred for each project awarded. The certified payroll must list all information required by law.

6.02 EMPLOYMENT OF ILLINOIS WORKERS DURING PERIODS OF EXCESSIVE UNEMPLOYMENT (Finance 30 ILCS 570/) Employment of Illinois Workers on Public Works Act:

(a) Whenever there is a period of excessive unemployment in Illinois which is defined herein as any month immediately following two (2) consecutive calendar months during which the level of unemployment in the State of Illinois has exceeded five (5%) percent as measured in the United States Bureau of Labor Statistics in its monthly publication of employment and unemployment figures, the contractor shall employ only Illinois laborers. "Illinois laborers" means any person who has resided in Illinois for at least thirty (30) days and intends to become or remain an Illinois resident.

(b) Other laborers may be used when Illinois laborers, as defined herein, are not available, or are incapable of performing the particular type of work involved, if so certified by the contractor and approved by the landscape architect. The contractor may replace no more than three (3) of his regularly employed non-resident executive and technical experts, who do not qualify as Illinois laborers, to do work encompassed by this contract during periods of excessive unemployment.

(c) This provision applies to all labor whether skilled, semi-skilled, whether manual or non-manual.

6.03 EMPLOYMENT PREFERENCE:

The contractor shall comply with "AN ACT to give preference to the veterans of the United States military and naval service in appointments and employment upon public works, by, or for the use of, the State or its political subdivisions, passed by the 59th General Assembly and approved on June 12, 1935, (Chapter 126-1/2, Paragraph 23 of the Illinois Revised Statutes 1965)."

6.04 ILLINOIS HUMAN RIGHTS ACT:

The contractor shall comply with the Illinois Human Rights Act, 775 ILCS 5/1.101, et seq including establishment of sexual harassment policies and program.

6.05 EQUAL EMPLOYMENT OPPORTUNITY:

During the performance of this contract the contractor agrees as follows:

(a) That it will not discriminate against any employee or applicant for employment because of race, color, religion, sex national origin or ancestry and further that it will examine all job classifications to determine if minority persons or women are underutilized and will take appropriate affirmative action to rectify any such underutilization.

(b) That if it hires additional employees in order to perform this contract or any

portion hereof it will determine the availability (in accordance with the Fair Employment Practices Commission's Rules and Regulations for Public Contracts) of minorities and women in the area(s) from which it may reasonably recruit and it will hire for each job classification for which employees are hired in such a way that minorities and women are not underutilized.

(c) That in all solicitations or advertisements for employees placed by it or on its behalf it will state that all applicants will be afforded equal opportunity without discrimination because of race, color, religion, sex, national origin or ancestry.

(d) That it will send to each labor organization or representative of workers with which it has or is bound by a collective bargaining or other agreement or understanding a notice advising such labor organization or representative of the contractor's obligations under the Illinois Fair Employment Practices Act and the Commission's Rules and Regulations for Public Contracts. If any such labor organization or representative fails or refuses to cooperate with the contractor in its efforts to comply with such Act and Rules and Regulations the contractor will promptly so notify the Illinois Fair Employment Practices Commission and the contracting agency and will recruit employees from other sources when necessary to fulfill its obligations there under.

(e) That it will submit reports as required by the Illinois Fair Employment Practices Commission's Rules and Regulations for Public contracts. Furnish all relevant information as may from time to time be requested by the Commission or the contracting agency, and in all respects comply with the Illinois Fair Employment Practices Act and the Commission's Rules and Regulations for Public Contracts.

(f) That it will permit access to all relevant books, records, accounts and work sites by personnel of the contracting agency and the Illinois Fair Employment Practices Commission for purposes of investigation to ascertain compliance with the Illinois Fair Employment Practices Act and the Commission's Rules and Regulations for Public Contracts.

(g) That it will include verbatim or by reference the provisions of paragraphs 1 through 7 of this clause in every performance subcontract as defined in Section 2.10(b) of the Commission's Rules and Regulations for Public Contracts. So that such provision will be binding upon every such subcontractor and that it will also include the provisions of paragraphs 1, 5, 6 and 7. In every supply subcontract as defined in Section 2.10 (a) of the Commission's Rules and Regulations for Public Contracts so that such provisions will be binding upon every such subcontractor. In the same manner as with other provisions of this contract, the contractor will be liable for compliance with applicable provisions of this clause by all its subcontractors: and further it will promptly notify the contracting agency and the Illinois Fair Employment Practices Commission in the event any subcontractor fails or refuses to comply therewith. In addition no contractor will utilize any subcontractor declared by the Commission to be non-responsible and therefore ineligible for contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations.

The Village of Arlington Heights does not discriminate on the basis of handicapped

status in admission or access to, or treatment or employment in its programs and activities.

6.06 THE AMERICAN WITH DISABILITIES ACT:

The Americans with Disabilities Act. (42 USC 121-1 et seq.) and its accompanying regulations (28 CFR 35.130) prohibit discrimination against qualified individuals with disabilities by a local government, whether directly or through contractual arrangements, in the provision of any benefit, service, program or activity of the public entity. As a condition of receiving this contract, the contractor certifies by signing the bid proposal form, that any services, programs and activities provided under this contract are now and will continue to be in compliance with the Americans with Disabilities Act.

6.07 SUBSTANCE ABUSE PREVENTION ON PUBLIC WORKS PROJECTS ACT, (820 ILCS 265/1 et seq):

All contractors and subcontractors must be in compliance with the Substance Abuse Prevention on Public Works Projects At, 820 IL CS 265/1 et seq. Before beginning work on a public works project, contractors and subcontractors shall have in place a written substance abuse prevention program which meets or exceeds the program requirements in the Act and shall file a copy of the program with the Village which will also be made available to the general public. The required testing must be performed by a laboratory that is certified for Federal Workplace Drug Testing Programs by the Substance Abuse and Mental Health Service Administration of the U.S. Department of Health and Human Services.

7.00 CONTRACTOR

7.01 COMPETENCY OF CONTRACTOR:

The contractor shall, when requested by Village, furnish signed statements evidencing responsibility and showing financial ability, experience, amount and condition of equipment and the value of all uncompleted work under contract pertaining to the proper execution of the specified work.

7.02 SUBCONTRACTORS:

A list of anticipated subcontractors, including their firm names, addresses, and telephone numbers, shall be furnished to the Village. A list of subcontractors shall be included with each bid proposal. All subcontractors to be used shall be approved by the Village. Subcontracting any part of the work to be done under this contract shall not under any circumstance relieve the contractor of responsibility for this contract.

7.03 COOPERATION BETWEEN CONTRACTORS:

(a) If separate contracts are let for work comprising an entire project each contractor shall conduct the work so as not to interfere with or hinder the progress or completion of the work being performed by other contractors. In case of dispute, the Village shall be the arbitrator and the Village's decision shall be final and binding.

(b) Each contractor shall assume all liability, financial or otherwise, in connection

with the contract and shall protect and save harmless the Village from any and all damages or claims that may arise because of inconvenience, delay, or loss experienced because of the presence and operations of other contractors working within the limits of the same improvement.

(c) The contractor shall, as far as possible, arrange the work and the placement and disposition of the materials being used, so as not to interfere with the operations of the other contractors within the limits of the same improvement. The contractor shall join his or her work with that of the others in an acceptable manner and shall perform it in proper sequence to that of the others, all as directed by the Village.

7.04 COMMENCEMENT OF WORK/USE OF SITE:

The contractor shall confine all equipment, the storage of materials and the operations of workers to limits indicated by law, ordinances, permits or directions of the Village and shall not reasonably encumber the site with materials. The contractor shall enforce the Village's instructions regarding the conduct and use of the site by employees. The contractor shall commence performance of the work on the date indicated on the notice to proceed which date shall be within ten (10) calendar days of the effective date of the contract. Within ten (10) calendar days of the effective date of the contract, contractor shall submit to the Village for review an estimated progress schedule indicating the starting and completion dates of the various stages of the work.

7.05 SUPERINTENDENT:

(a) The contractor shall employ a competent superintendent and necessary assistants who shall be in attendance at the project site during the progress of the work. The superintendent shall represent the contractor and all communications given to the superintendent shall be as binding as if given to the contractor. Important communications shall be confirmed in writing. Other communications shall be so confirmed on written request in each case.

(b) The contractor shall supervise and direct the work efficiently using his or her best skill and attention. The contractor shall be solely responsible for the negligence of others in the design or selection of a specific means, method, techniques, sequence or procedure of Public Improvements / Construction which is indicated in and required by the contract documents. Contractor shall be responsible to see that the finished work complies accurately with the contract documents.

7.06 WORKMANSHIP:

The contractor shall be responsible for high quality workmanship on all items of work. Where workmanship of any job or portion thereof is not acceptable, it shall be removed and replaced at the contractor's expense.

7.07 RESPONSIBILITY:

Responsibility for the maintenance of safe equipment and the use of proper construction methods and procedures shall rest solely with the contractor and subcontractors performing the work and the Village shall not have any responsibility therefore. The Village has the right to ascertain and require that the work product of the contractor and subcontractors complies with the contract.

7.08 CONTRACTOR RESPONSIBILITY TO VILLAGE:

The contractor shall notify the Village representative one (1) calendar day in advance of all grading, drainage, paving operations, shade and ornamental tree staking, and other major items of construction for field checking and approvals to proceed. All questions pertaining to the plans, specifications and details of the work shall be directed to the Village representative and cleared prior to construction.

7.09 HOLD HARMLESS AND INDEMNIFICATION:

To the fullest extent permitted by law, the contractor shall assume all liability for, and shall protect, defend, indemnify and hold harmless the Village, it's officers, employees, servants, and agents, from and against all claims, actions, suits, judgments, costs, losses, expenses, including but not limited to, fees and charges of attorneys, engineers and architects, court and arbitration costs, and liabilities of whatsoever kind or nature arising out of:

(a) Any infringement (actual or claimed) on any patents, copyrights or trade names by reason of any work performed by the contractor under this contract or by reason of anything to be supplied by the contractor pursuant to this contract.

(b) Bodily injury, including death, sickness or disease, to any person or persons (including contractor's officers, employees, agents, and servants) or damage to or destruction of any property including the loss of use thereof:

(1) caused in whole or in part by any act, error or omission by the contractor or any subcontractor or anyone directly or indirectly employed by any of them;

(2) arising directly or indirectly out of the presence of any person in or about any part of the project site or the streets, sidewalks, and property adjacent hereto;

(3) arising directly or indirectly out of the use, misuse or failure of any machinery or equipment used directly or indirectly in the performance of the contract.

(c) In any and all claims against the Village or any of their agents or employees by any employee of the contractor, any subcontractor, anyone directly or indirectly employed by any of them or anyone whose acts may be liable, the indemnification obligation under this section shall not be limited in any way by any limitation on the amount or type of damages, compensation or benefits payable by or for the contractor or any subcontractor under worker's or workmen's compensation acts, disability benefit acts or other employee benefit acts. This indemnification does not apply to any liability caused by the Village's negligence.

7.10 ABANDOMENT:

Should the contractor abandon or neglect the work or if the Village at any time is convinced that the work is unreasonably delayed, or that the conditions of the Contract are being willfully violated, executed carelessly, or in bad faith, the Village may notify the Contractor in writing, and if this notification is without effect twenty-four (24) hours after delivery, then the contractor shall discontinue all work under the contract and the owner shall have full authority to make arrangements for the completion of the contract at the expense of the contractor.

7.11 CLEAN UP AND SITE MAINTENANCE:

The contractor shall at all times keep the site and adjoining premises free from accumulation of waste material or rubbish caused by its employees or work, and at the completion of the work, shall remove all rubbish, tools, and surplus materials from the site and adjoining premises, leaving the area in a neat and workmanlike condition. In case of dispute, the Village may remove the rubbish and charge the cost to the contractor as the Village shall determine to be just.

8.00 EXISTING CONDITIONS

(a) Existing conditions including surface features, soil boring data and any underground utilities shown on the plans and/or referred to in the specifications are for informational purposes only and shall not be deemed as part of the plans and specifications. It shall be the contractor's obligation to verify and augment such information and data to fully satisfy as to the conditions under which the work will be done. The contractor shall maintain in operating condition all active utilities encountered in this Public Improvements/Construction.

(b) The contractor shall contact all public utilities involved and have their representative locate pipes, conduits, cables or other facilities before Public Improvements/Construction is started. The Village does not assume responsibility for location or disturbance of utilities or other existing features or conditions encountered on this project. Any replacement or relocation costs shall be the contractor's responsibility, unless otherwise specified.

(c) Contractor shall promptly notify owner in writing of any subsurface or latent physical conditions at the site differing materially from those indicated in the contract documents.

9.00 CHANGES/ALTERATIONS OF CONTRACT WORK AND EXTRA WORK

(a) The Village reserves the right to alter the plans through change orders by adding or deducting from the original quantities as bid without invalidating the contract. All such work shall be executed under the same conditions as the original contract, except for an extension in time when any such change/alteration results in additional work.

(b) All changes shall be made only when ordered in writing from the owner as follows:

(1) Approval to increase the contract price by not more than $20,000.00 may be exercised by written change order of the Village Manager.

(2) Approval to increase the contract price in all other instances or to extend the contract completion time may only be exercised by written change order signed by the Village President and authorized by a due and proper vote of the Village Board of Trustees.

(c) The value of any change shall be determined by one or more of the following methods:

(1) By an approved lump sum.

(2) By unit prices given in the contract or subsequently agreed upon.
(3) Time and material plus percentage. This method of cost shall be based on the contractor's actual costs for time and material plus an agreed percentage for the contractor's overhead and profit not to exceed 20%. Contractor's actual costs shall be the direct costs for labor, payroll, insurance, payroll taxes, materials, and use of equipment based upon the current "nationally averaged rental rates of construction equipment" as published by the ASSOCIATED EQUIPMENT DISTRIBUTORS.

10.00 PROTECTION OF PERSONS AND PROPERTY

10.01 SAFETY PRECAUTIONS AND PROGRAMS:

The contractor shall be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the work.

10.02 SAFETY OF PERSONS AND PROPERTY:

(a) The contractor shall take all reasonable precautions for the safety of, and shall provide all reasonable protection to prevent damage, injury or loss to:
(1) all employees on the site and all other persons who may be affected thereby;
(2) all the work and all materials and equipment, whether in storage on or off site, under the care, custody, or control of the contractor or any of the subcontractors; and
(3) other property at the site or adjacent to the site, including trees, shrubs, lawns, walks, pavements, roadways, structures and utilities not designated for removal, relocation, or replacement in the course of Public Improvements/Construction.

(b) The contractor shall give all notices and comply with all applicable laws, ordinances, rules and regulation and lawful orders of any public authority bearing on the safety of persons or property or their protection from damage, injury or loss.

(c) The contractor shall erect and maintain, as required by existing conditions and progress of the work, all reasonable safeguards for safety and protection, including posting danger signs and other warnings against hazards, promulgating safety regulations and notifying owners and users of adjacent utilities.

(d) The contractor shall use proper warning guards and safety devices in the construction area and particularly with respect to open trenches and the storage of construction materials.

(e) No trees, fire hydrants, utility poles, shrubs or hedges, traffic signs, or other public structure shall be removed, replaced, damaged or destroyed unless the Village has given approval in writing.

(f) The contractor shall conduct construction activities so as not to interfere with, break, cut or otherwise damage any public curb, or public road, pavement or any utility services located alongside of or under or within any public road or public right-of-way area, without a letter of approval from the Village.

(g) Notwithstanding the foregoing requirements, the contractor shall be responsible for taking immediate steps to correct any damage or injury to public structures, utility services, roadways or public buildings as well as any damage or injury to private property as a result of the contractor's activities.

(h) The contractor shall keep a daily record with respect to all injuries, incidents or damage occurring in, on or near the construction site as a result of the construction activities. The contractor shall give this information to the Village within twenty-four (24) hours after the day of occurrence.

(i) The contractor shall keep first aid supplies on the site.

11.00 INSURANCE REQUIREMENTS:

(a) The Contractor shall not commence work until the Contractor has obtained all insurance required in these documents. The Contractor shall purchase and maintain, throughout the duration of the contract, insurance as is appropriate for the work being performed and furnished and shall provide protection from claims which may arise out of or result from the Contractor's performance and furnishing of the work and Contractor's other obligations under the contract documents, whether it is to be performed or furnished by the Contractor, by any Subcontractor, by anyone directly or indirectly employed by them or by anyone for whose acts any of them may be liable.

(b) Insurance required by this Section shall be written with a company having at least an "A" Property-Casualty Rating, and financial size of at least Class 7 as listed in the most recent published A. M. Best's Insurance Guide.

(c) The Village shall be named as additional insured on all policies required by the contract except for Workmen's Compensation insurance. The coverage afforded shall be primary and non-contributory for the additional insured with respect to claims arising out of operations performed by or on behalf on the Contractor. Additional insured: Village Of Arlington Heights, its Officials, Employees, Agents and Volunteers. If the additional insured has other insurance which is applicable to the loss, such as other insurance shall be on an excess or contingent basis. The amount of the Contractor's insurance company's liability under this insurance policy shall not be reduced by the existence of such other insurance. Additional insured status shall be provided by original endorsement as least as broad as CG 20 10 04 13 or CG 20 26 04 13.

(d) As a minimum, the contractor shall secure and maintain the types of insurance as specified, and shall submit evidence to the Village on an annual basis that the insurance coverage's are in force. The form and limits of such insurance, together with the underwriter thereof in each case, shall be acceptable to the Village, but regardless of such acceptance it shall be the responsibility of the Contractor to main adequate insurance coverage until final payment and at all times thereafter when the Contractor may be correcting, removing, or replacing defective work in accordance with the General Conditions and Instruction to Bidders. Failure of the Contractor to maintain adequate coverage shall not relieve him of any contractual responsibility or obligation.

(e) The Contractor shall forward original copies of the Certificates of Insurance with the coverage's and limits specified annually during the contract period to the Purchasing Division, Finance Department, 33 S. Arlington Heights Road, Arlington Heights, IL 60005.

(f) Insurance Certificates and Policies delivered to the Village shall recite that 30 days prior written notice will be given to the Village by certified mail before any policy is materially changed, canceled, or not renewed.

11.01 **WORKER'S COMPENSATION AND EMPLOYERS LIABILITY:**

The insurance shall protect the Contractor against all claims under applicable State or Federal Worker's Compensation Laws. The Contractor shall also be protected against claims for injury, disease or death of employees which for any reason may not fall within the provisions of the Worker's Compensation Law. The policy shall include "broad form all states" endorsement coverage extended to cover all states except the monopolistic fund states.

The liability limits shall not be less than:

1. Worker's Compensation……Statutory
2. Employer's Liability……..……..$1,000,000 per occurrence

11.02 BUSINESS AUTO LIABILITY:

The insurance shall be written in automobile liability form and shall protect the Contractor against all claims for injuries to persons and damages to property arising from the ownership, maintenance or use of any motor vehicles and shall cover operation on or off the site of all motor vehicles, whether they are owned, non-owned or hired.

The liability limits shall not be less than:

1. Bodily Injury and Property Damage Combined……$1,000,000 per occurrence

11.03 COMMERCIAL GENERAL LIABILITY, INCLUDING PREMISES AND OPERATIONS, CONTRACTUAL, PERSONAL INJURY, PRODUCT LIABILITY, COMPLETED OPERATIONS, AND BROAD FORM PROPERTY COVERAGES:

(a) This insurance shall be written in Commercial General Liability form and shall protect the Contractor against all claims arising from injuries to persons or damages to property caused by any act or omission of the Contractor or his agents, employees or Subcontractors. The Contractors General Aggregate shall apply on a per Project basis. The Broad Form General Liability Endorsement shall be included.

(b) In addition, this policy shall contain a Contractual Liability Endorsement covering any Contractual Liability assumed in the Contract and all changes and modifications thereto, whether in writing or oral.

(c) The scope of the coverage shall also include the Personal Injury Hazards including "a", "b", and "c". "a" includes false arrest, malicious prosecution, and unwillful detention or imprisonment. "b" includes libel, slander, and defamation of character. "c" includes wrongful eviction, invasion of privacy, and wrongful entry. Fellow Employee exclusion shall be removed.

(d) The Policy shall also include Broad Form Property Damage Protection.

(e) The Contractor shall include all the Contractor's employees as additional insured's under the policy.

(f) Commercial General Liability Coverage shall contain no exclusions for explosion, collapse or underground work (X, C, U).

(g) The liability limits shall not be less than:

1. Bodily Injury and Property Damage, Combined single limit, per occurrence including, Contractual Liability – Broad Form Products and Completed Operations.....$2,000,000

2. Premises/Operations
   Personal Injury.....$1,000,000

3. General Aggregate.....$4,000,000

Products/Completed Operations coverage is to remain in force for a period of two (2) years after the completion of the project.

11.04 UMBRELLA EXCESS LIABILITY:

Special coverage shall be as follows.....$2,000,000 over primary insurance

The required coverages may be in combination of primary, excess and umbrella policies. Any excess or umbrella policy must provide excess coverage over underlying insurance on a following-form basis such that when any loss covered by the primary policy excess the limits under the primary policy, the excess or umbrella policy becomes effective to cover such loss.

Policy should be written on an occurrence basis.

All underlying coverage needs to be included in the Umbrella or Excess Liability policy. Any exclusions or exceptions must be noted on the certificate of insurance.

11.05 **BUILDER'S RISK INSURANCE:**

(a) Builder's Risk insurance shall insure against "All Risk" of physical damage, including earthquake and water damage (flood and hydrostatic pressure not excluded), on a Completed Value Basis. The insurance shall include the interests of the Village, Contractor, and Subcontractors in the Work and will be provided by the Contractor. This policy shall be written or endorsed to allow the Village to occupy or use a portion or portions of the Work prior to completion of all the Work.

(b) If not covered under the "All Risk" insurance or otherwise provided in the bid documents, the Contractor shall effect and maintain similar property insurance on portions of the Work stored on or off site or in transit, when such portions of the

Work are to be included in an Application for Payment.

11.06 OWNERS PROTECTIVE LIABILITY INSURANCE:

Owners Protective Liability Policy shall be a stand-alone policy or an endorsement to the liability policy that covers claims for negligence by a contractor or a subcontractor hired by the insured. The policy limit shall be not less than $1,000,000 per occurrence and the named insured on the policy shall be the Village of Arlington Heights.

12.00 PAYMENTS AND COMPLETION

12.01 PROGRESS PAYMENTS:

The contractor may request progress payments, based on estimates of work on the first of each month. The estimate shall be a sworn statement (similar to Practical Business Form #589 by Frank R. Walker Co., Chicago) of the work completed to date. The form of the estimate for progress payment requests shall be as follows:

(a) Unit Price: When the contract work has been awarded on a unit price bid basis, the forms of each estimate shall follow the bid proposal form, listing each item number, the total quantity of units completed to date, the unit price and subtotal. The sub-total column shall be added to show the total cost of work completed to date, less ten (10) percent to be withheld giving the total amount requested for payment. Previous requests for payment paid by the Village shall be shown on each subsequent request and subtracted after the ten (10) percent has been withheld.

(b) Lump Sum: When the contract work has been awarded on lump sum bid basis, the form of each estimate will include the contractor's breakdown of job items with a total value given to each item. The estimate for the items of work completed to date shall be expressed as a percent of the total with the corresponding cost of work, the work completed to date, less ten (10) percent to be withheld, giving the amount requested for payment. Previous requests for payment paid by the Village shall be shown on each subsequent request and subtracted after the ten (10) percent has been withheld.

12.02 PAYMENTS WITHHELD:

The Village may refuse payment or, because of subsequently discovered evidence or subsequent observations, may nullify the whole or any part of any payment, to such extent as may be necessary to protect the Village from loss because of:

(a) defective work not remedied.

(b) third party claims filed or reasonable evidence indicating probable filing of such claims.

(c) failure of the contractor to make payments properly to subcontractors for labor, materials, or equipment.

(d) reasonable evidence that the work cannot be completed for the unpaid balance of the contract sum.

(e) damage to the Village or another contractor.

(f) reasonable evidence that the work cannot be completed within the contract time, for failure to realize that "time is of the essence".

(g) persistent failure to carry out the work in accordance with the contract documents.

12.03 WAIVER OF LIEN:

The contractor shall promptly pay each subcontractor the amount entitled. The contractor shall by an appropriate agreement with each subcontractor also require each subcontractor to make payments promptly to subcontractors. Partial waivers of lien shall accompany each payment request to cover the full amount of the previous payment request except for the final payment which shall contain final waivers of lien from the contractor and all subcontractors. The contractor shall get from every subcontractor and supplier of materials or labor a partial waiver of lien to release the Village of any claim for a lien, which they or any of them may have under the Illinois Lien Laws and Public Construction Bond Act. Any payments made by the Village without requiring strict compliance of the terms of this paragraph shall not be construed as a waiver by the Village of the right to insist upon strict compliance of the terms of this paragraph as a condition of later payments. The contractor shall indemnify and hold the Village harmless from all claims of subcontractors, laborers, workmen, mechanics, materialmen and furnishers or material and parts thereof, equipment, tools and all supplies incurred in the furtherance of the performance of the work. Failure to supply waivers of lien or acceptable evidence of payment of all current accounts incurred by this contract work shall be grounds for withholding payment.

12.04 PAYMENTS BY THE OWNER:

Thirty (30) days after issuance and delivery of a request for payment to the Village, the Village will approve or disapprove the request. The amount approved will become due and will be paid by the Village to the Contractor within thirty (30) days after the date of approval.

12.05 TAXES:

No charges will be allowed for taxes from which the Village is exempt. The Village is not liable for the Illinois Retailer's Occupation Tax, the Service Occupation Tax nor the Service Use Tax. The Village is also exempt from Federal Excise Transportation Tax.

12.06 FINAL PAYMENT:

(a) Upon written notice by the contractor that the work is completed and ready for final inspection and acceptance, the Village will make the required inspection and determine final completion. Any remedies to the work shall be noted and submitted in writing by the Village to the contractor. After making any required remedies, the

contractor will submit a request for final payment.

(b) As a condition of final payment, the contractor shall submit affidavits and final waivers of lien from itself and each subcontractor indicating that all bills for payrolls, materials, equipment or other indebtedness have been satisfied.

(c) The final payment, as well as the completed work, will be reviewed by the Village for final approval and release of retention.

12.07 CORRECTION OF WORK AFTER FINAL PAYMENT:

The final payment or any provision in the contract documents shall not relieve the contractor of the responsibility for the correction of any and all defects in the work performed. The contractor warrants and guarantees to the Village that all work will be in accordance with the contract documents and will be free from defects in materials and workmanship for a period of one (1) year after the date of final payment.

13.00 LIQUIDATED DAMAGES

13.01 LIQUIDATED DAMAGES:

Time is of the essence of this contract. Liquidated damages will be assessed against the contractor for failure to complete the work within the time(s) specified in these contract documents. If the contractor fails to complete the work in whole or in part in the time stipulated in the contract or within such extra time as may have been allowed for unavoidable delays or extensions granted for changes in the work, the contractor shall reimburse the Village for the additional expense and damage in the amount of $500.00 for each calendar day, Sundays and legal holidays included. It is expressly understood and agreed that this amount is not to be considered in the nature of a penalty but as liquidated damages which have accrued against the contractor. The Village shall have the right to deduct such damages from any amount due or that may become due to the contractor or the amount of such damages shall be due and collectible from the contractor or his contractors.

13.02 SUSPENSION OF THE WORK:

The Village may at any time without cause suspend the work or any portion thereof for a period of not more than ninety (90) days by notice in writing to the contractor. The contractor shall resume the work on the date fixed in the notice. The contractor may be allowed an increase in the contract price or an extension of the contract time or both directly attributable to any suspension if the contractor makes a claim as provided in Section 9.00. The Village may also suspend the work for cause upon the occurrence of any one or more of the following events:

(a) If the contractor fails to supply a qualified superintendent, sufficient skilled workers, subcontractors or suitable materials or equipment.

(b) If the contractor repeatedly fails to make prompt payments to subcontractors or for labor, materials or equipment.

(c) If the contractor disregards laws and regulations of any public body having jurisdiction of the work.

No additional compensation will be paid to the contractor nor shall the contract completion time be extended if the Village suspends work for cause. If it becomes necessary to suspend the work for an indefinite period of time, the contractor shall store all materials in a manner that will not obstruct or impede the traveling public unnecessarily or damaged the material in any way. The contractor will prevent damage or deterioration of the work performed, provide suitable drainage of the roadway and erect temporary structures where necessary. The contractor shall not suspend work without authority from the Village

13.03 TERMINATION OF THE CONTRACT:

The Village may terminate the contract if any of the following events occur:

(a) The contractor commences a voluntary case under any chapter of the Bankruptcy Code or the contractor takes any equivalent or similar action by filing a petition or otherwise under any federal or state law in effect at such time relating to bankruptcy or insolvency.

(b) If a petition is filed against the contractor under any chapter of the Bankruptcy Code or if a petition is filed seeking any such equivalent or similar relief against the contractor under any other federal or state law in effect at the time relating to bankruptcy or insolvency.

(c) If the contractor makes a general assignment for the benefit of creditors.

(d) If a trustee, receiver, custodian or agent of the contractor is appointed to enforce a lien against the contractor's property or for the purpose of general administration of the property for the benefit of the contractor's creditors.

(e) If the contractor admits in writing an inability to pay its debts generally as they become due.

(f) If the contractor persistently fails to perform the work in accordance with the contract documents, including, but not limited, to failure to supply sufficient skilled workers or suitable materials or equipment or failure to adhere to the progress schedule established herein.

(g) If the contractor disregards laws and regulations of any public body having jurisdiction over the work.

(h) If the contractor disregards the authority of the Village.

(i) If the contractor otherwise violates in any substantial way any provisions of the contract documents.

The Village may, after giving contractor and its sureties seven (7) calendar days written notice and to the extent permitted by laws and regulations, terminate the services of the contractor, exclude the contractor from the site and take possession of the work and all the contractor's tools, appliances, construction equipment and machinery at the site and use the same to the full extent as they could be used by the contractor without liability to the contractor for trespass or conversion.

The contractor shall not be entitled to receive any further payment until the work is finished. If the unpaid balance of the contract amount exceeds the direct, indirect and consequential cost of completing the work, including but not limited to fees and charges of engineers, architect, attorneys and other professionals, the excess shall be paid to the contractor. If such costs exceed the unpaid balance, the contractor shall pay the difference to the owner. When exercising any rights or remedies under this paragraph, Village shall not be required to obtain the lowest figure for the work performed. If the Village terminates the contractor's services the termination will not affect the Village's right or remedies against the contractor. Any retention or payment due contractor by Village will not release the contractor from liability.

(i) Upon seven (7) calendar days written notice to the contractor, the Village may, without cause and without prejudice to any other right or remedy elect to abandon the work and terminate the agreement. In such case, the contractor shall be paid for all work executed and all expense sustained plus reasonable termination expenses.

"REGENCY COURT LIFT STATION
RECONSTRUCTION**"**

1. Specifications

The following, except as modified, herein are incorporated by reference into the specifications and shall govern the work specified.

A. For general conditions, earthwork, base courses, pavement, storm sewers, curb and gutter and miscellaneous concrete, sidewalks, catch basins, manholes, etc.:

The "Standard Specifications for Road and Bridge Construction", adopted January 1, 2022. This will be referred to as "Standard Specifications" throughout these bid documents.

The "Supplemental Specifications and Recurring Special Provisions", adopted January 1, 2026.

B. For Traffic Control:

"Illinois Manual on Uniform Traffic Control Devices for Streets and Highways", adopted November 2021, the latest edition in effect as of the date of bid opening.

C. For Water Main and Sanitary Sewer Construction:

The "Standard Specifications for Water and Sewer Main Construction in Illinois", the latest edition in effect as of the date of bid opening.

2. Order of Precedence

In the event of an inconsistency between provisions of this solicitation, the inconsistency shall be resolved by giving precedence in the following order:

a) Lift Station Technical Specifications
b) Special Provisions
c) Plans and Notes
d) Recurring Special Provisions
e) Supplemental Specifications
f) Instructions to Bidders & General Conditions

g) Standard Specifications

Any inconsistencies the Contractor finds shall immediately be brought to the Engineers attention.

3. Commencement of Work

Construction shall commence no later than 14 days after award of contract.

4. Owner

When the word "Owner" or "Village" appears in the specifications they shall mean the Village of Arlington Heights, Illinois, a municipal corporation of the State of Illinois,
33 South Arlington Heights Road, Arlington Heights, Illinois 60005.

5. Engineer

When the word "Engineer" appears in the specifications it shall mean the Village Engineer of the Village of Arlington Heights, Illinois or those designated by the Village Engineer.

6. Start Dates & Completion Dates

All work under this bid shall be completed by January 11, 2027.

Failure to complete the work on time or to comply with the scheduling restrictions described above will result in deductions for each day of overrun in contract time in accordance with Section 108 of the Standard Specifications. No extensions will be given except as follows:

Should the Contractor be delayed by the Village for any cause, there shall be added to the time of completion a time equal to the period of such delay caused by the Village. In the event such delay in completion is greater than thirty (30) days, a written determination of the circumstances shall be attached to the change order as required by law.

The Contractor may not be liable in damages for delay in performance when such delay or failure is the result of fire, flood, strike, the transporting carrier, act of God, or by any other circumstances which are beyond the control of the Contractor. Under such circumstances, however, the Village may, at its option, cancel the contract.

7. Hours of Construction

The Contractor is authorized to work 7:00 a.m. to dusk, Monday through Friday. If necessary, the Contractor may complete work on Saturday with approval from the Engineer, 8:00 a.m. to dusk.

8. Schedule of Work

The Contractor shall submit a written sequence and timetable for completion of the work within 14 calendar days after award of contract.

9. Scope of Contract

The Owner reserves the right to extend or shorten the improvement or otherwise alter it by extras or deductions including the elimination of one or more items. Should this situation arise, the Engineer may adjust the completion date to compensate for additional work. Any adjustment necessary shall be at the discretion of the Engineer and is not intended to allow the project to be delayed. In the event that the Scope of the contract is changed so that the cost of the contract is altered by $25,000 or more or the time of completion is altered by 30 days or more, a written determination of the circumstances shall be attached to the change order as required by law.

VILLAGE OF ARLINGTON HEIGHTS

AFFIDAVIT OF COMPLIANCE

Applicant _____
Name

_____
Address

As a condition of entering into a contract with the Village of Arlington Heights, and under oath and penalty of perjury and possible termination of contract right and debarment, the undersigned, _____, being first duly sworn on oath, deposes and states that he or she is _____ (sole owner, partner, joint ventured, President, Secretary, etc..) of _____ and has the authority to
(Name of Company)
make all certifications required by this affidavit.

Section I

Non Collusion

The undersigned certifies that this bid, that such bid is genuine and not collusive or sham, that said bidder has not colluded, conspired, connived or agreed, directly or indirectly, with any bidder or person, to put in a sham bid or to refrain from bidding, and has not in any manner, directly or indirectly, sought by agreement or collusion, or communication or conference with any person, to fix the bid price element of this bid, or of that of any other bidder, or to secure any advantage against any other bidder or any person interested in the proposed contract.

Section II

Bid Rigging and Rotating

The undersigned hereby certifies that it is not barred from bidding or contracting as a result of a conviction for violations of state laws prohibiting bid rigging or bid rotating or any similar offense of any state of the United States.

Section III

Illinois Drug Free Workplace Act

The undersigned further states that _____ provides
(Name of Company)
A drug free workplace pursuant to Illinois Statues, 30 ILCS 580/1, et seq and provides compliance with necessary requirements.

Section IV

Tax Payment

The undersigned further states that _____ is not
(Name of Company)
delinquent in payment of any taxes to the Illinois Department of Revenue, in accordance with Illinois Compiled Statues, 65 ILCS 5/11-42.1. The undersigned understands that making a false statement regarding delinquency in taxes is a Class A Misdemeanor and, in addition voids the contract and allows the municipality to recover all amounts paid to the individual or entity under the contract in civil action.

It is expressly understood the foregoing statements and representations and promises are made as a condition to the right of the bidder to receive payment under any award made under the terms and provisions of this bid.

The undersigned certifies that all the information contained in the Affidavit is true and correct.

Signed by: _____
(Name)
(Title)

Subscribed and sworn to before me this _____day of _____20___,AD.

By: _____
(Notary Public)

-Seal-

VILLAGE OF ARLINGTON HEIGHTS

INDEMNITY HOLD HARMLESS AGREEMENT

To the fullest extent permitted by law, the Contractor hereby agrees to defend, indemnify and hold harmless the Village of Arlington Heights, its Board of Trustees, officers, agents and employees from any and all liability, losses or damages the Village may suffer as a result of claims, demands, suits, actions or proceedings of any kind or nature in any way resulting from or arising out of any action on the part of the Contractor or any Subcontractor. The Contractor shall, at its own expense; appear, defend and pay all charges of attorneys and all costs and other expenses arising therefrom or incurred in connection therewith, and, if any judgment shall be rendered against the Village of Arlington Heights, its Board of Trustees, officers, agents and employees, in any such action, the contractor shall, at its own expense, satisfy and discharge the same. This indemnification does not apply to liability caused by the Village's own negligence.

The Contractor expressly understands and agrees that any insurance policies required by this contract, or otherwise provided by the Contractor, shall in no way limit the responsibility to indemnify, keep and save harmless and defend the Village of Arlington Heights, its Board of Trustees, officers, agents and employees as herein provided.

CONTRACTOR:_____

By: _____

VENDOR APPLICATION

A W-9 must be submitted with this application.

Company Name: _____

Remit To Address: Include if different than W-9 Address.
Company Name: _____
Street Address: _____
City: _____ State:_____ Zip:_____
Contact Information:
Name: _____ PH#: _____Email: _____
Vendor Classification:

In accordance with Illinois Public Act 102-0265, the Village of Arlington Heights is required to make a good faith effort to collect and publish certain demographic information provided by our vendors and subcontractors doing business with us. We are required to report whether they are a minority, woman or veteran-owned business as defined by Illinois Law. In addition, we are required to report whether the vendor is a small business under the Small Business Administration standards (SBA).

Please indicate any applicable classification below or check NA, and check if self-certified or if certified. Submit the appropriate certification documentation with this form.

- ☐ Small Business: Meets certification requirements as a small business under SBA standards (more information available at SBA.gov)
  Avg # of Employees: _____ Avg Annual Receipts less than $7.5M Yes No
  Self-Certified Holds Certification

- ☐ Minority-Owned Business Enterprise (MBE): A business that is at least 51 percent owned by one or more minorities. A person who is a U.S. citizen or lawful permanent resident of the United States and is African American, Hispanic American, Asian American, Native American or Native Hawaiian.
  Self-Certified Holds Certification

- ☐ Women-Owned Business Enterprise (WBE): A business that is at least 51 percent owned by a woman or women who are U. S. Citizens or lawful permanent residents of the U.S.
  Self-Certified Holds Certification

- ☐ Disability-Owned Business Enterprise (DOBE): A business that is at least 51 percent owned by a person or group of persons with a disability (per the definition in 30 ILCS 575) and who is a U.S. citizen or lawful permanent resident of the United States.
  Self-Certified Holds Certification

- ☐ Veteran-Owned Small Business (VOSB): A small business that is at least 51 percent owned, operated & controlled by a qualified veteran living in IL and its home office in IL.
  Self-Certified Holds Certification

- ☐ Not Applicable

Name of Person Completing this form:_____Date:___

VILLAGE OF ARLINGTON HEIGHTS

PROPOSAL

NAME OF BIDDER: _____

ADDRESS OF BIDDER: _____

_____

TO: VILLAGE ENGINEER
VILLAGE OF ARLINGTON HEIGHTS
33 SOUTH ARLINGTON HEIGHTS ROAD
ARLINGTON HEIGHTS, IL 60005

PROJECT: "Regency Court Lift Station Reconstruction"

The undersigned Bidder submits herewith a Proposal Guaranty in the amount of _____ in accordance with the terms set forth in the Bid Specifications.

The undersigned Bidder, having examined the site of the work and determined the scope of the Plans & Bid Specifications, for the above named project, hereby proposes to provide the required labor, services, and equipment and to perform the work as described in documents referenced above, including Addenda Nos _____, and to do all the work at the schedule of unit prices attached.

The undersigned hereby certifies that the bidder is not barred from contracting as a result of a conviction for violations of state laws prohibiting bid rigging or bid rotating or any similar offense of any state or the United States.

Title: _____
(Print)

By: _____
(Print name)

Signature: _____

Date: _____

Attest:

_____
Notary

VILLAGE OF ARLINGTON HEIGHTS

PROPOSAL SHEET

				BASE BID	
ITEM NO.	***ITEM***	***UNIT***	***CONTRACT QUANTITY***	***UNIT PRICE***	***ITEM TOTAL***
SP-1	TRAFFIC CONTROL AND PROTECTION	L SUM	1		
SP-2	CONSTRUCTION LAYOUT	L SUM	1		
01 33 00	VIDEO DOCUMENTATION OF EXISTING CONDITIONS	L SUM	1		
01 50 00	TEMPORARY FACILITIES AND CONTROLS	L SUM	1		
01 51 00	TEMPORARY BYPASS PUMPING	L SUM	1		
01 57 00	EROSION AND SEDIMENT CONTROL	L SUM	1		
01 57 13	MOBILIZATION AND DEMOBILIZATION	L SUM	1		
02 01 00	TREE REMOVAL	UNIT	13		
02 41 00	DEMOLITION	L SUM	1		
03 00 00-1	WET WELL TOP SLAB	L SUM	1		
03 00 00-2	WET WELL	L SUM	1		
03 00 00-3	METER VAULT/VALVE/BYPASS VAULT	L SUM	1		
03 00 00-4	CONCRETE TRAFFIC BOX ENCLOSURE PAD	L SUM	1		
03 00 00-5	CONCRETE GENERATOR PAD	L SUM	1		
22 13 19	PROCESS VALVES AND APPURTENANCES	L SUM	1		
22 13 13	PROCESS PIPING AND APPURTENANCES	L SUM	1		
22 13 29	SUBMERSIBLE SOLIDS HANDLING PUMPS AND APPURTENANCES	L SUM	1		
22 14 19	SUMP PUMP SYSTEMS	L SUM	1		
26 05 00	ELECTRICAL WIRES AND CABLES	L SUM	1		
26 05 26	GROUNDING	L SUM	1		

26 05 33	ELECTRICAL CONDUIT	L SUM	1		
26 20 00-1	ELECTRIC SERVICE AND DISTRIBUTION	L SUM	1		
26 20 00-2	ELECTRIC SERVICE UTILITY FEE	ALLOWANCE	1	$10,000	$10,000
26 36 20	NATURAL GAS ENGINE GENERATOR	L SUM	1		
31 23 16-1	EARTHWORK	L SUM	1		
31 41 00	TEMPORARY SOIL RETENTION SYSTEMS	L SUM	1		
32 13 13-1	CLASS B PATCHES, 8 INCH	SQ YD	40		
32 13 13-2	CONCRETE SIDWALK, 5"	SQ FT	394		
32 13 13-3	CURB AND GUTTER REPLACEMENT	FOOT	172		
32 92 00-1	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	300		
32 92 00-2	SEEDING CLASS 1A	ACRE	0.1		
32 92 00-3	MULCH, METHOD 3	ACRE	0.1		
33 05 19	DUCTILE IRON FORCE MAIN, 6-INCH	FOOT	19		
33 09 30	PUMP CONTROL PANEL FOR LIFT STATION	L SUM	1		
33 31 11	8" PVC C900 (DR18) SANITARY SEWER	FOOT	27		
			TOTAL BASE BID		

ALTERNATIVE BID 1: *Includes the connection of the force main 40' south of the plan location. The additional quantities are estimated in the Alternative 1 Bid Schedule the following page.*

				ALTERNATIVE BID	
ITEM NO.	***ITEM***	***UNIT***	***CONTRACT QUANTITY***	***UNIT PRICE***	***ITEM TOTAL***
32 13 13-1	CLASS B PATCHES, 8 INCH	SQ YD	44		
32 13 13-2	CONCRETE SIDWALK, 5"	SQ FT	75		
32 13 13-3	CURB AND GUTTER REPLACEMENT	FOOT	10		
33 05 19	DUCTILE IRON FORCE MAIN, 6-INCH	FOOT	40		
ALTERNATIVE ITEMS SUBTOTAL					
BASE BID					
ALTERNATIVE BID = ALTERNATIVES ITEMS SUBTOTAL + BASE BID					

VILLAGE OF ARLINGTON HEIGHTS
REGENCY COURT LIFT STATION

SECTION 2

SPECIAL PROVISIONS

INDEX
FOR
SUPPLEMENTAL SPECIFICATIONS
AND RECURRING SPECIAL PROVISIONS

Adopted January 1, 2026

This index contains a listing of SUPPLEMENTAL SPECIFICATIONS, frequently used RECURRING SPECIAL PROVISIONS, and LOCAL ROADS AND STREETS RECURRING SPECIAL PROVISIONS.

ERRATA Standard Specifications for Road and Bridge Construction
(Adopted 1-1-22) (Revised 1-1-26)

SUPPLEMENTAL SPECIFICATIONS

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214	Grading and Shaping Ditches	6
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407	Hot-Mix Asphalt Pavement (Full-Depth)	9
420	Portland Cement Concrete Pavement	10
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504	Precast Concrete Structures	12
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522	Retaining Walls	14
540	Box Culverts	15
542	Pipe Culverts	35
550	Storm Sewers	44
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RECURRING SPECIAL PROVISIONS

The following RECURRING SPECIAL PROVISIONS indicated by an "X" are applicable to this contract and are included by reference:

CHECK SHEET #			PAGE NO.
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BDE SPECIAL PROVISIONS
For the April 24 and June 12, 2026 Lettings

The following special provisions indicated by a "check mark" are applicable to this contract and will be included by the Project Coordination and Implementation Section of the Bureau of Design & Environment (BDE).

File Name	#		Special Provision Title	Effective	Revised
80099	1	☐	Accessible Pedestrian Signals (APS)	April 1, 2003	Jan. 1, 2022
80274	2	☐	Aggregate Subgrade Improvement	April 1, 2012	April 1, 2022
80192	3	☐	Automated Flagger Assistance Devices	Jan. 1, 2008	April 1, 2023
80173	4	☐	Bituminous Materials Cost Adjustments	Nov. 2, 2006	Aug. 1, 2017
80426	5	☐	Bituminous Surface Treatment with Fog Seal	Jan. 1, 2020	April 1, 2026
80475	6	☐	Bridge Deck Concrete Overlays	Jan. 1, 2026	
* 80241	7	☐	Bridge Demolition Debris	July 1, 2009	
* 5053I	8	☐	Building Removal	Sept. 1, 1990	Aug. 1, 2022
* 5026I	9	☐	Building Removal with Asbestos Abatement	Sept. 1, 1990	Aug. 1, 2022
80460	10	☐	Cement, Finely Divided Minerals, Admixtures, Concrete, and Mortar	Jan. 1, 2025	Jan. 1, 2026
80384	11	☑	Compensable Delay Costs	June 2, 2017	April 1, 2019
* 80198	12	☐	Completion Date (via calendar days)	April 1, 2008	
* 80199	13	☐	Completion Date (via calendar days) Plus Working Days	April 1, 2008	
80461	14	☐	Concrete Barrier	Jan. 1, 2025	
80453	15	☐	Concrete Sealer	Nov. 1, 2023	
80261	16	☑	Construction Air Quality – Diesel Retrofit	June 1, 2010	Jan. 1, 2025
80476	17	☐	Deck Slab Repair	Jan. 1, 2026	
* 80029	18	☐	Disadvantaged Business Enterprise Participation	Sept. 1, 2000	Jan. 2, 2025
80467	19	☐	Erosion Control Blanket	Aug. 1, 2025	
80229	20	☐	Fuel Cost Adjustment	April 1, 2009	Aug. 1, 2017
80452	21	☐	Full Lane Sealant Waterproofing System	Nov. 1, 2023	
80433	22	☐	Green Preformed Thermoplastic Pavement Markings	Jan. 1, 2021	Jan. 1, 2022
80471	23	☐	Guardrail	Nov. 1, 2025	
80472	24	☐	High Friction Surface Treatment	Nov. 1, 2025	
80456	25	☐	Hot-Mix Asphalt	Jan. 1, 2024	April 1, 2026
80446	26	☐	Hot-Mix Asphalt - Longitudinal Joint Sealant	Nov. 1, 2022	Aug. 1, 2023
80438	27	☐	Illinois Works Apprenticeship Initiative – State Funded Contracts	June 2, 2021	April 2, 2024
80483	28	☐	Inlet Filters	April 1, 2026	
80477	29	☐	Longitudinal Tining	Jan. 1, 2026	
80450	30	☐	Mechanically Stabilized Earth Retaining Walls	Aug. 1, 2023	Aug. 1, 2025
80478	31	☐	Modified Longitudinal Construction Joint	Jan. 1, 2026	
80464	32	☐	Pavement Marking	April. 1, 2025	Nov. 1, 2025
80468	33	☑	Pavement Patching	Aug. 1, 2025	
80441	34	☐	Performance Graded Asphalt Binder	Jan. 1, 2023	April 1, 2026
80459	35	☐	Preformed Plastic Pavement Marking	June 2, 2024	
* 3426I	36	☐	Railroad Protective Liability Insurance	Dec. 1, 1986	Jan. 1, 2022
80473	37	☐	Raised Reflective Pavement Markers	Nov. 1, 2025	
80455	38	☐	Removal and Disposal of Regulated Substances	Jan. 1, 2024	April 1, 2026
80474	39	☐	Residential Driveway Temporary Signal	Nov. 1, 2025	
80445	40	☐	Seeding	Nov. 1, 2022	
80457	41	☐	Short Term and Temporary Pavement Markings	April 1, 2024	April 2, 2024
80462	42	☐	Sign Panels and Appurtenances	Jan. 1, 2025	Jan. 1, 2026
80479	43	☐	Sinusoidal Rumble Strips	Jan. 1, 2026	
80469	44	☐	Slope Wall	Aug. 1, 2025	
80448	45	☐	Source of Supply and Quality Requirements	Jan. 2, 2023	Jan. 1, 2026
80340	46	☐	Speed Display Trailer	April 2, 2014	Jan. 1, 2022
80127	47	☐	Steel Cost Adjustment	April 2, 2004	Nov 1, 2025
80480	48	☐	Structural Repair of Concrete	Jan. 1, 2026	
80397	49	☐	Subcontractor and DBE Payment Reporting	April 2, 2018	
80391	50	☑	Subcontractor Mobilization Payments	Nov. 2, 2017	April 1, 2019
80463	51	☐	Submission of Bidders List Information	Jan. 2, 2025	Mar. 2, 2025

	80482	52	☐	Submission of Payroll Records – Federal Aid Contract	April 1, 2026	
	80437	53	☐	Submission of Payroll Records – State Contract	April 1, 2021	April 1, 2026
	80435	54	☐	Surface Testing of Pavements – IRI	Jan. 1, 2021	Jan. 1, 2023
	80465	55	☐	Surveying Services	April 1, 2025	
	80481	56	☐	Temporary Concrete Barrier	Jan. 1, 2026	
	80466	57	☐	Temporary Rumble Strips	April 1, 2025	
	80470	58	☐	Traffic Signal Backplate	Aug. 1, 2025	
*	20338	59	☐	Training Special Provisions	Oct. 15, 1975	Sept. 2, 2021
	80429	60	☐	Ultra-Thin Bonded Wearing Course	April 1, 2020	Jan. 1, 2022
	80439	61	☑	Vehicle and Equipment Warning Lights	Nov. 1, 2021	Nov. 1, 2022
	80458	62	☐	Waterproofing Membrane System	Aug. 1, 2024	
	80302	63	☐	Weekly DBE Trucking Reports	June 2, 2012	Jan. 2, 2025
	80454	64	☐	Wood Sign Support	Nov. 1, 2023	
	80427	65	☑	Work Zone Traffic Control Devices	Mar. 2, 2020	Jan. 1, 2026
*	80071	66	☐	Working Days	Jan. 1, 2002	

Highlighted items indicate a new or revised special provision for the letting.

An * indicates the special provision requires additional information from the designer, which needs to be submitted separately The Project Coordination and Implementation Section will then include the information in the applicable special provision.

The following special provisions are in the 2026 Supplemental Specifications and Recurring Special Provisions.

File Name	Special Provision Title	New Location(s)	Effective	Revised
80447	Grading and Shaping Ditches	Articles 214.03 & 214.04	Jan. 1, 2023	

VILLAGE OF ARLINGTON HEIGHTS
"REGENCY COURT LIFT STATION RECONSTRUCTION"

SPECIAL PROVISIONS

The following Special Provisions supplement the "Standard Specifications for Road and Bridge Construction", adopted January 1, 2022 (herein referred to as the Standard Specifications), the "Supplemental Specifications and Recurring Special Provisions" adopted January 1, 2026, the latest edition of the "Illinois Manual on Uniform Traffic Control Devices for Streets and Highways", the latest edition of the "Standard Specifications For Water & Sewer Main Construction in Illinois", and the "Manual of Test Procedures for Materials" in effect on the date of invitation for bids herein which apply to and govern the construction of the **REGENCY COURT LIFT STATION RECONSTRUCTION** and in case of conflict with any part or parts of said Specifications, the said Special Provisions shall take precedence and shall govern.

MAINTENANCE OF ROADWAYS

Beginning on the date that work begins on this project, the Contractor shall assume responsibility for normal maintenance of all existing roadways within the limits of the improvement. This normal maintenance shall include all repair work deemed necessary by the Engineer, but shall not include snow removal operations. Traffic control and protection for maintenance of roadways will be provided by the Contractor as required by the Engineer.

Basis of Payment: This item of work shall not be paid for separately but shall be considered included in the cost of the various bid items of the contract.

PUBLIC CONVENIENCE AND SAFETY (D1)

Effective: May 1, 2012
Revised: July 15, 2012

Add the following to the end of the fourth paragraph of Article 107.09:

"If the holiday is on a Saturday or Sunday, and is legally observed on a Friday or Monday, the length of Holiday Period for Monday or Friday shall apply."

Add the following sentence after the Holiday Period table in the fourth paragraph of Article 107.09:

"The Length of Holiday Period for Thanksgiving shall be from 5:00 AM the Wednesday prior to 11:59 PM the Sunday After"

Delete the fifth paragraph of Article 107.09 of the Standard Specifications:

"On weekends, excluding holidays, roadways with Average Daily Traffic of 25,000 or greater, all

lanes shall be open to traffic from 3:00 P.M. Friday to midnight Sunday except where structure construction or major rehabilitation makes it impractical."

TRAFFIC CONTROL PLAN

Description: Traffic Control shall be according to the applicable sections of the Standard Specifications, the Supplemental Specifications, the "Illinois Manual on Uniform Traffic Control Devices for Streets and Highways", any special details and Highway Standards contained in the plans, and the Special Provisions contained herein.

Special attention is called to Article 107.09 of the Standard Specifications and the following Highway Standards, Details, Quality Standard for Work Zone Traffic Control Devices, Recurring Special Provisions and Special Provisions contained herein, relating to traffic control.

The Contractor shall contact the District One Bureau of Traffic at least 72 hours in advance of beginning work.

STANDARDS: 701006 701301 701501 701801 701901

SPECIAL PROVISIONS:

MAINTENANCE OF ROADWAYS (D1)
PUBLIC CONVENIENCE AND SAFETY (D1)

Basis of Payment: This work will be paid for at the contract lump sum price for TRAFFIC CONTROL AND PROTECTION.

CONSTRUCTION LAYOUT

Description: The Contractor shall furnish and place construction layout stakes for the proposed work. The Engineer will provide adequate reference points to the centerline of survey and benchmarks as shown in the plans. Any additional control points set by the Engineer will be identified in the field to the Contractor and all field notes will be kept by the Engineer.

The Contractor shall provide field forces, equipment, and material to set all additional stakes for the portions of this project as described above, which are needed to establish offset stakes, reference points, and any other horizontal or vertical controls, including supplementary benchmarks, necessary to secure a correct layout of the work.

Stakes for line and grade of pavement and/or curb shall be set at sufficient station intervals (not to exceed 50 ft) to assure substantial conformance to plan line and grade. The Contractor will not be required to set additional stakes to locate a utility line which is not included as a pay item in the contract nor to determine property lines between private properties.

The Contractor shall be responsible for having the finished work conform to the lines, grades, elevations, and dimensions called for in the plans. Any inspection or checking of the Contractor's layout by the Engineer and the acceptance of all or any part of it shall not relieve the Contractor of his/her responsibility to secure the proper dimensions, grades and elevations of the several parts of the work. The Contractor shall exercise care in the preservation of stakes and benchmarks and shall have them reset when any are damaged, lost, displaced, removed, or otherwise obliterated.

Responsibility of the Engineer: The Engineer will make random checks of the Contractor's staking to determine if the work is in conformance with the plans. Where the Contractor's work will tie into work that is being or will be done by others, checks will be made to determine if the work is in conformance with the proposed overall grade and horizontal alignment.

Where the Contractor, in setting construction stakes, discovers discrepancies, the Engineer will check to determine their nature and make whatever revisions are necessary in the plans.

It is not the responsibility of the Engineer, except as provided herein, to check the correctness of the Contractor's stakes; any errors apparent will be immediately called to the Contractor's attention and s(he) shall make the necessary correction before the stakes are used for construction purposes.

Where the plan quantities for excavation are to be used as the final pay quantities, the Engineer will make sufficient checks to determine if the work has been completed in conformance with the plan cross sections.

Responsibility of the Contractor: The Contractor shall establish from the given survey points and bench marks all the control points necessary to construct the individual project elements. S(he) shall provide the Engineer adequate control in close proximity to each individual element to allow adequate checking of construction operations. This includes, but is not limited to, line and grade stakes, line and grade nails in form work, and/or filed or etched marks in substantially completed construction work. It is the Contractor's responsibility to tie in centerline control points in order to preserve them during construction operations.

At the completion of the grading operations, the Contractor shall set stakes at 100 ft Station intervals along each profile grade line. These stakes will be used for final cross sectioning by the Engineer.

All work shall be according to normally accepted self-checking surveying practices. Field notes shall be kept in standard survey field notebooks and those books shall become the property of the Village at the completion of the project. All notes shall be neat, orderly and in accepted form.

Measurement and Payment: This work will be paid for at the contract lump sum price for CONSTRUCTION LAYOUT.

DUST CONTROL

The Contractor shall take appropriate measures to control dust at all times along the entire project by means such as mechanical sweeping or as directed by the Engineer.

Basis of Payment: This item of work shall not be paid for separately, but be incidental to the contract.

SAWCUTTING

Sawcutting shall be included with the pay item being removed. All sawcuts shall be full depth. The use of water from residential homes through the use of garden hoses, etc. is strictly forbidden. All water to be used for sawcutting shall be obtained from the Village Public Works Department located at 222 North Ridge Avenue, Arlington Heights, IL. All arrangements for use must be made through the Village Superintendent of Utilities, phone (847) 368-5800.

Basis of Payment: This item of work shall not be paid for separately, but be incidental to the contract.

CONSTRUCTION DEBRIS

Add the following to the third paragraph of Article 202.03 of the Standard Specifications:

"The Contractor shall not conduct any generation, transportation, or recycling of construction or demolition debris, clean or general or uncontaminated soil generated during construction, remodeling, repair, and demolition of utilities, structures, and roads that is not commingled with any waste, without the maintenance of documentation identifying the hauler, generator, place of origin of the debris or soil, the weight or volume of the debris or soil, and the location, owner, and operator of the facility where the debris or soil was transferred, disposed, recycled or treated. This documentation must be maintained by the Contractor for 3 years."

The IEPA "Source Site Certification by Owner or Operator" form LPC-662 shall be utilized by the contractor for all work included in this contract.

PERMIT REQUIREMENTS

The Contractor will meet the requirements of all permits necessary for construction, including but not limited to those noted below. It is the Contractor's responsibility to obtain all required permits not noted herein.

- MWRD WMO Permit – Being acquired by Owner.
- IEPA Water Pollution Control Permit – Being acquired by Owner.

VILLAGE OF ARLINGTON HEIGHTS
REGENCY COURT LIFT STATION

SECTION 3

LIFT STATION TECHNICAL SPECIFICATIONS

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DIVISION 33 – UTILITIES

SEC.	TITLE	PAGE
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33 09 30	Wastewater Pumping Control System	33 09 30:1-15
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APPENDICES

APPENDIX A	Cook County Prevailing Wage
APPENDIX B	Geotechnical Investigation
APPENDIX C	pH Test Result

SUBMITTALS
SECTION 01 33 00

PART 1 – GENERAL

1.01 SCOPE

A. This Section establishes minimum requirements and procedures for Submittals by the Contractor for materials and equipment provided for under the Work of this Contract. Specific details for additional drawings, data and information to be submitted shall be in accordance with the applicable requirements of other Sections of these Specifications.

B. Acceptable Manufacturers and Equipment Suppliers for various items of equipment are specified in respective Sections of these Contract Documents. For convenience of designation in the Contract Documents, certain equipment, articles, materials, and processes are designated by manufacturer trade name or catalog name and number. Such designation shall be deemed to be followed by the words “or approved equal” whether such words are shown or not. The Contractor may offer material or processes which are equal to that so indicated or specified at the time of Bid. The burden of proof as to comparative quality and suitability of alternatives shall be upon the Contractor. After acceptance of Bid, no substitutions will be allowed, except as stated in the Bid. (Exception: Where Specifications indicate “No Substitutions Allowed” the Contractor shall provide the designated manufacturers equipment without exception.)

1.02 SUBMITTAL PROCEDURES

A. The Contractor shall, within 10 calendar days after receiving the Notice to Proceed, prepare and submit for review a construction schedule together with a detailed list of all the submittals which the Contractor proposes to make to meet the requirements of this and other Sections, including the dates on which the Contractor proposes to make such submittals.

B. The Contractor shall submit submittals in electronic format.

C. The Engineer will make internal distribution to the Owner and other interested parties.

D. Submittals shall be in the English language.

E. Weights, measures, and units shall be English units.

F. Symbols and drawings shall conform to ANSI Y32.2 / IEEE 315/SCA Z99.

1.03 CONTRACTOR RESPONSIBILITIES

A. Review submittals prior to submission.

B. Determine and verify:

1. Field measurements.

2. Field construction criteria.

3. Catalog numbers and similar data.

4. Conformance to specifications.

C. Coordinate each submittal with other submittals and with requirements of Work and of Contract Documents.

D. Notify Engineer in writing, at time of submission, of any deviations in submittals from requirements of Contract Documents. Any such deviations permitted by Engineer will require modifications of Contract Documents.

E. Provide space on Shop Drawings for Contractor and Engineer stamps.

F. When Shop Drawings are revised for resubmission, identify all changes made since previous submission.

G. Submittals containing language imposing duties on others (such as verification of dimensions or supply of related information) inconsistent with contract language shall be null and void.

H. Submittals shall not be used as media for inquiries for information or for verification of information that must be supplied by others to Contractor. Inquiries or verification of information shall be made by separate Contractor submittal using Request for Information (RFI) process.

I. Begin no fabrication or Work which requires submittal review until return of submittals by Engineer with stamp, as either "Furnish as Submitted", or “Furnish as Corrected.”

J. Distribute copies of reviewed submittals that carry Engineer stamp as either "Furnish as Submitted" or “Furnish as Corrected” as appropriate. Instruct parties to promptly report any inability to comply with requirements.

K. Submittals not requested will not be recognized or processed.

1.04 ENGINEER DUTIES

A. Review required submittals within 15 calendar days and in accordance with schedule, only for general conformance to design concept of Project and compliance with information given in Contract Documents. Review shall not extend to means, methods, sequences, techniques, or procedures of construction or to safety precautions or program incident thereto. Review of a separate item as such will not indicated approval of assembly in which item functions.

B. Affix stamp and initials or signature, and indicate requirements for resubmittal, or review of submittal. Engineer's action on submittals is classified as follows:

1. Furnish as Submitted: Submittal has been reviewed and appears to be in conformance to design concept of Project and Contract Documents. Contractor may proceed with fabrication of work in submittal.

2. Furnish as Corrected: Submittal has been reviewed and appears to be in conformance to design concept of Project and Contract Documents, except as noted by reviewer. Contractor may proceed with fabrication of work in submittal with modifications and corrections as indicated by reviewer.

3. Revise and Resubmit: Submittal has been reviewed and appears not to be in conformance to design concept of Project or with Contract Documents. Contractor shall not proceed with fabrication of work in submittal, but instead shall make any corrections required by reviewer and resubmit for review.

4. Rejected: Submittal is being returned without having been reviewed because: 1) not required by Contract Documents; 2) grossly incomplete; 3) indicates no attempt at conformance to Contract Documents; 4) cannot be reproduced; 5) lacks Contractor's completed approval stamp; or 6) lacks design professional's seal when required by law or Contract Documents. If submittal is required by Contract Documents, Contractor shall not proceed with Work as detailed in submittal, but instead shall correct defects and resubmit for review.

C. Return one copy of submittals to Contractor. Contractor shall make additional distribution as required.

D. Submittals which do not contain markup, or which have minor markup that can be adequately described without referencing submittal, will not be returned. Reviewer will return signed submittal stamp with written description of Review’s comments.

E. Review of submittals shall not relieve Contractor from responsibility for any variation from Contract Documents unless Contractor has, in writing, called Engineer's attention to such variation at time of submission, and Engineer has given written concurrence pursuant to Contract Documents to specific variation, nor shall any concurrence by Engineer or other reviewer relieve Contractor from responsibility for errors or omissions in submittals.

1.05 SHOP DRAWINGS SUBMITTALS

A. Submit for review for limited purpose of checking for conformance to information given and design concept expressed in Contract Documents. Produce copies and distribute in accordance with article “Submittal Procedures” and for record documents purposes as described in Section 01 33 00.

B. Designate in construction schedule, or in separate coordinated submittal schedule, dates for submission and dates that reviewed submittals will be needed.

C. Make submittals promptly in accordance with approved schedule, and in such sequence as to cause no delay in Work or in work of other contractors.

D. Present in clear and thorough manner, complete with respect to dimensions, design criteria, materials of construction, and like information to enable review of information as required.

E. Details shall be identified by reference to sheet and detail, schedule or room numbers shown on Drawings.

F. Indicate special utility and electrical characteristics, utility connection requirements, and location of utility outlets for service for functional equipment and appliances.

G. Equipment which is identified on Contract Documents with tag number or name shall be identified on Shop Drawing with same tag.

H. Schedule submittals to expedite Project. Coordinate submission of related items.

I. For each submittal for review, allow 10 calendar days to complete review process.

J. Identify variations from Contract Documents and product or system limitations which may be detrimental to successful performance of completed Work.

K. Shop Drawings shall be submitted in electronic format.

1. Submit electronic copy to Engineer at project site.
2. Text documents shall be submitted in .pdf format.
3. Drawings shall be submitted in .pdf format.
4. Electronic submittal shall be suitable for reproduction in black and white.
5. Samples may be submitted to Engineer at address given in these documents.

L. Submittals shall contain:

1. Date of submission and dates of any previous submissions.
2. Project title and number.
3. Contract identification.
4. Names of:
    a. Contractor.
    b. Supplier.
    c. Manufacturer
5. Identification of product, with Specification section number and article number.
6. Field dimensions, clearly identified as such.
7. Relation to adjacent or critical features of Work or materials.
8. Applicable standards, such as ASTM or Federal Specification numbers.
9. Identification of deviations from Contract Documents.
10. Identification of revisions on resubmittals.
11. An 8" x 3" blank space for Contractor and reviewer stamps.
12. Indication of Contractor's approval, initialed or signed, with wording substantially as follows:

    "Contractor represents to Owner and Engineer that Contractor has either determined and verified all quantities, dimensions, field construction criteria, materials, catalog numbers, and similar data, or assumes full responsibility for doing so and has reviewed or coordinated each submittal with requirements of Work and Contract Documents."

13. If Contract Documents include performance specifications stating required results which can be verified as meeting stipulated criteria, so that further design by Contractor prior to fabrication is necessary, Submittal depicting such design must be prepared under seal of professional engineer registered licensed in appropriate state and Submittal shall be signed and sealed in accordance with applicable regulations and with following certification statement:

    "I hereby certify that this engineering document was prepared by me or under my direct personal supervision, that I am a duly registered licensed professional engineer under laws of state of Illinois and I

accept responsibility for adequacy of this document to meet criteria stipulated in Contract Documents."

M. Product Data:

1. Mark each copy to identify applicable products, models, options, and other data. Supplement manufacturers' standard data to provide information specific to this Project.
2. Indicate product utility and electrical characteristics, utility connection requirements, and location of utility outlets for service for functional equipment and appliances.

N. Design Data:

1. Submit for Engineer's knowledge as contract administrator or for Owner.
2. Submit for information for limited purpose of assessing conformance with information given and design concept expressed in Contract Documents.

O. Data sheets:

1. Data sheets may require information not known until Contractor’s engineering is complete. Furnish estimated values based on good engineering judgment. Estimated values shall be identified by placement of “(est.)” next to value.
2. Data Sheets shall be updated and resubmitted by Contractor once final values are known.
3. Do not leave items blank or labeled “To Be Determined” or “Later.”
4. Do not submit manufacturer Product Data instead of completed data sheets.

P. Test reports:

1. Submit for Engineer's knowledge as contract administrator or for Owner.
2. Submit test reports for information for limited purpose of assessing conformance with information given and design concept expressed in Contract Documents.

Q. Certificates:

1. When specified in individual specification sections, submit certification by manufacturer, installation/application subcontractor.
2. Indicate material or product conforms to or exceeds specified requirements. Submit supporting reference data, affidavits, and certifications as appropriate.
3. Certificates may be recent or previous test results on material or product, but must be acceptable to reviewer.

R. Manufacturer's instructions:

1. When specified in individual specification sections, submit printed instructions for delivery, storage, assembly, installation, start-up, adjusting, and finishing, to Engineer for delivery to Owner in quantities specified for Product Data.
2. Indicate special procedures, perimeter conditions requiring special attention, and special environmental criteria required for application or installation.

S. Manufacturer's field reports:

1. Submit report in duplicate within 30 days of observation for information.
2. Submit for information for limited purpose of assessing conformance with information given and design concept expressed in Contract Documents.

T. Erection drawings:

1. Submit for information for limited purpose of assessing conformance with information given and design concept expressed in Contract Documents.
2. Data indicating inappropriate or unacceptable Work may be subject to action by Engineer or Owner.

U. Samples:

1. Samples for selection as specified in product sections:
    a. Submit for aesthetic, color, or finish selection.
    b. Submit samples of finishes from full range of manufacturers' standard colors, textures, and patterns for selection.

2. Submit to illustrate functional and aesthetic characteristics of product, with integral parts and attachment devices. Coordinate sample submittals for interfacing work.
3. Include identification on each sample, with full Project information.
4. Submit number specified in individual Specification Sections; 1 of which will be retained by Engineer.
5. Reviewed Samples which may be used in Work are indicated in individual Specification Sections.
6. Samples will not be used for testing purposes unless specifically stated in specification section.
7. Field Samples and mock-ups:
    a. Erect at Project Site, at location acceptable to Engineer.
    b. Size or area: That specified in respective Specification Section.
    c. Fabricate each Sample and mock-up complete and finished.

d. Remove mock-ups upon acceptance of Work or when acceptable to Engineer.

V. Proposed products list:

1. Within 15 days after date of Notice to Proceed, submit list of major products proposed to Engineer for use, with name of manufacturer, trade name, and model number of each product.
2. For products specified only by reference standards, give manufacturer, trade name, model or catalog designation, and reference standards.

W. Operations and maintenance manuals:

1. Designate in construction schedule, or in separate coordinated schedule, dates for submission and dates that reviewed operations and maintenance manuals will be needed.
2. Operations and maintenance manuals shall be presented in clear and thorough manner, complete with respect to dimensions, design criteria, materials of construction, and like information to enable reviewer to review information as required. Details shall be identified by reference to sheet and detail, schedule or room numbers shown on Drawings.

1.06 RESUBMISSION REQUIREMENTS

A. Make any corrections or changes in submittals required by Engineer and resubmit until stamped as either "Furnish and Submitted" or “Furnish as Corrected.”

B. Text and depictions changed on Submittal shall be back-circled (clouded).

C. Engineer will assume that portions of Submittal not back-circled have not been changed by Contractor from previous submission.

D. Indicate revision number and date in document revision block.

1.07 DISTRIBUTION

A. Distribute reproductions of Shop Drawings which carry Engineer stamp as either "Furnish and Submitted” or “Furnish as Corrected” to:

1. Job site file.
2. Record Documents file.
3. Other affected contractors.
4. Subcontractors.
5. Supplier or fabricator.

B. Distribute Samples which carry Engineer stamp as either "Furnish and Submitted" or "Furnish as Corrected" as directed by Engineer.

1.08 VIDEO DOCUMENTATION OF EXISTING CONDITIONS

A. Prior to construction, perform video recording in all areas to be disturbed by construction. Recording shall document significant features that may be affected by construction activity. Payment for Video Documentation of Existing Conditions shall only occur if video documentation is provided prior to Contractor Mobilization / Start of Construction.

B. Provide labor, equipment, and materials for televising and complete video documentation of construction areas.

C. Personnel and equipment:

1. Furnish equipment, supplies, and materials necessary to complete Work as specified.
2. Equipment not giving proper results shall be replaced.

D. Camera and other components shall provide clean, clear, and sharp color picture.

E. Video/photographic recording:

1. Provide complete color video recording of construction areas. Video recording media produced shall be compatible with Owner's video equipment.
2. Produce video recordings of sufficient quality to allow proper in-house viewing with minimum of distortion; no image tearing.
3. Provide voice narration on video recording to document following information:
4. Name of city, street, and date upon which video inspection was made.
5. Description of special features, i.e. cracked pavements, special landscaping, etc.
6. Stop camera at special features for minimum of 10 seconds to allow for photographic documentation.
7. Deliver video recording to Engineer who, after review, will deliver recording to Owner for permanent records.
8. Label each recording to identify sewer and limits of coverage.

F. Recording procedure:

1. Camera shall be moved at uniform rate consistent with amount of detail being recorded.

2. Take necessary steps and adopt procedures to ensure optimum viewing conditions.

1.09 SAFETY PROCEDURES MANUAL

A. Prepare and submit to Owner safety procedures manual defining Contractor's safety program for work on site. Manual shall include:

1. Safety responsibilities of Contractor's personnel.
2. Description of Contractor's safety program.
3. Requirements of use of personal protective equipment.
4. General safety-related rules of conduct.
5. Fire prevention measures.
6. Accident reporting procedures.

PART 2 – PRODUCTS

As specified in applicable sections of the Contract Documents.

PART 3 – EXECUTION

As specified in applicable sections of the Contract Documents.

PART 4 – MEASUREMENT AND PAYMENT

4.01 MEASUREMENT:

A. Measurement will not be made for the Work specified in this Section

4.02 PAYMENT

A. Payment for the Work specified under Part 1.08 of this section will be made at the lump sum price for VIDEO DOCUMENTATION OF EXISTING CONDITIONS. Payment for Video Documentation of Existing Conditions shall only occur if video documentation is provided prior to Contractor Mobilization / Start of Construction.

B. Payment will not be made for any other Items except as listed above. All other costs associated with such Work shall be included in the prices bid for the various items to which they pertain.

--- END OF SECTION ---

QUALITY ASSURANCE
SECTION 01 43 00

PART 1 – GENERAL

1.01 DESCRIPTION

A. This Section covers Quality Assurance and Control requirements for this contract, which include but are not limited to the following:

1. Perform the inspections and test required by the Specifications.
2. Provide product certifications as required by the Specifications.
3. Test, adjust, balance, and operate mechanical and electrical equipment to demonstrate that they have been properly assembled, aligned, adjusted, wired, and connected. Make any adjustments or replacements found necessary.
4. Neither observations by Engineer, Owner's Representative, nor inspections, tests, or approvals by other than Contractors, shall relieve Contractor from his/her obligation to perform the Work in accordance with the requirements of the Contract Documents.

B. The Contractor is responsible for controlling the quality of work, including work of its subcontractors, suppliers, and manufacturers and for assuring the quality specified in the Technical Specifications is achieved.

1.02 CONTRACTOR FURNISHED TESTING LABORATORY SERVICES

A. An independent commercial testing laboratory acceptable to the Engineer shall perform all tests that require the services of a laboratory to determine compliance with the Contract Documents. The laboratory shall be staffed with experienced technicians, properly equipped, and fully qualified to perform the tests in accordance with the specified standards.

B. Preliminary Testing Services: The Contractor shall be responsible for all testing laboratory services in connection with concrete materials and mix designs, the design of asphalt mixtures, gradation tests for structural and embankment fills, backfill materials, and all other tests and engineering data required for the Engineer's review of materials and equipment proposed to be used in the Work. The Contractor shall obtain the Engineer's acceptance of the testing laboratory before having services performed, and shall pay all costs for services.

C. The Contractor shall not retain any testing laboratory against which the Owner or the Engineer have reasonable objection, and if at any time during the construction process the services become unacceptable to the Owner, or the Engineer, either the Owner or the Engineer may direct in writing that such services be terminated. The request must be supported with evidence of

improper testing or unreasonable delay. If the Engineer determines that sufficient cause exists, the Contractor shall terminate the services and engage a different testing laboratory.

D. Transmittal of Test Reports: Written reports of testing and engineering data furnished by the Contractor for the Engineer's review of materials and equipment proposed to be used in the Work shall be submitted as specified for Shop Drawings.

E. The Contractor's testing laboratory shall furnish four copies of a written report of each test performed by laboratory personnel within three days after each test is completed. Distribution shall be two copies of each test report to the Engineer's Representative, one copy to the Owner, and one copy for the Contractor.

1.03 CONTRACTOR FURNISHED TESTING AND INSPECTION SERVICES

A. The Contractor will employ the services of an independent testing agency to conduct concrete testing.

B. The Contractor shall furnish a construction schedule and a minimum of 48-hour notice of readiness for testing and inspection of the work. The Engineer shall determine the exact time and location of field sampling and testing and may require such additional sampling and testing as necessary to determine that materials and equipment conform with data previously furnished by Contractor and with the Contract Documents.

C. The Contractor shall schedule the work to permit adequate time for testing and re-testing should test results not conform to the contract documents.

D. The Contractor shall furnish material samples and cooperate in the field sampling and testing activities, interrupting the work when necessary. The Contractor shall furnish personnel, facilities and access to assist in the sampling and testing activities.

1.04 QUALITY ASSURANCE

A. Copies of applicable referenced standards are not included in the Contract Documents. Where copies of standards are needed by the Contractor for superintendence and quality control of the work, the Contractor shall obtain a copy or copies directly from the publication source and maintain at the jobsite, available to the Contractor's personnel, subcontractors, and Engineer.

B. Quality of Materials: Unless otherwise specified, all materials and equipment furnished for permanent installation in the Work shall conform to applicable standards and specifications and shall be new, unused, and free from defects

and imperfections, when installed or otherwise incorporated in the Work. The Contractor shall not use material and equipment for any purpose other than that intended or specified unless the Engineer authorizes such use.

C. Where so specified, products or workmanship shall also conform to the additional performance requirements included within the Contract Documents to establish a higher or more stringent standard or quality than that required by the referenced standard.

1.05 MATERIALS AND EQUIPMENT

A. The Contractor shall maintain control over procurement sources to ensure that materials and equipment conform to specified requirements in the Contract Documents.

B. The Contractor shall comply with manufacturer's printed instructions regarding all facets of materials and/or equipment movement, storage, installation, testing, startup, and operation. Should circumstances occur where the contract documents are more stringent than the manufacturer's printed instructions, the Contractor shall comply with the specifications. In cases where the manufacturer's printed instructions are more stringent than the contract documents, the Contractor shall advise the Engineer of the disparity and conform to the manufacturer's printed instructions. In either case, the Contractor is to apply the more stringent specification or recommendation, unless approved otherwise by the Engineer.

1.06 MANUFACTURER'S FIELD SERVICES

A. When specified in the technical specifications sections, the Contractor shall arrange for and provide technical representation from manufacturer's of respective equipment, items or components. The manufacturer's representative shall be a factory trained service engineer/technician with the type and length of experience specified in the technical specifications.

B. Services Furnished Under This Contract: An experienced, competent, and authorized factory trained service engineer/technician representative of the manufacturer of each item of equipment for which field services are indicated in the specifications shall visit the site of the Work and inspect, operate, test, check, adjust if necessary, and approve the equipment installation. In each case, the manufacturer's service representative shall be present when the equipment is placed in operation. The manufacturer's service representative shall revisit the jobsite as often as necessary until all problems are corrected and the equipment installation and operation are satisfactory to the Engineer.

C. Refer to specific Technical Specification sections for additional requirements.

1.07 CERTIFICATION FORMS AND CERTIFICATES

A. The Contractor shall be responsible for submitting the certification forms and certificates in conformance with the requirements specified in Section 01 33 00 – Submittals.

PART 2 – PRODUCTS

All materials and equipment shall be provided as required by the Contractor for any specified testing.

PART 3 – EXECUTION

3.01 QUALITY CONTROL

A. Quality control is the responsibility of the Contractor, and the Contractor shall maintain control over construction and installation processes to assure compliance with specified requirements.

B. Certifications for personnel, procedures, and equipment associated with special processes (e.g., welding, cable splicing, instrument calibration, surveying) shall be maintained in the Contractor's field office, available for inspection by the Engineer. Copies shall be made available to the Engineer upon request.

C. Means and methods of construction and installation processes are the responsibility of the Contractor, and at no time is it the intent of the Engineer to supersede or void that responsibility.

PART 4 – MEASUREMENT AND PAYMENT

Work specified in this Section will not be measured or paid for as a separate item, but shall be considered as included in the prices bid for the various pay items of work involved.

--- END OF SECTION ---

TEMPORARY FACILITIES AND CONTROLS
SECTION 01 50 00

PART 1 – GENERAL

1.01 SCOPE OF WORK

A. Furnish and install temporary facilities as hereunder specified, plus other unspecified temporary facilities, including labor, materials, services, utilities, and equipment, as may be required for proper performance of Contract, except as otherwise provided. Temporary facilities shall be approved by the Owner and other authorities having legal jurisdiction. Locate facilities where and as directed, and maintain in safe and sanitary condition at all times until completion of Work.

B. At completion of work, or sooner when no longer needed, remove all temporary facilities, except where certain facilities are specified to remain or to be relocated for use under future contracts.

1.02 CONSTRUCTION EQUIPMENT

A. Erect, equip, operate, and maintain construction equipment in strict accordance with applicable statues, laws, ordinances, rules, and regulations of authorities having jurisdiction.

1.03 SAFETY PRECAUTIONS

A. Provide and maintain barricades, fencing, shoring, pedestrian walkways including attached lights, other lights, and other safety precautions to properly guard against personal injury and property damage as prescribed by authority having jurisdiction.

B. Maintain such items for duration of Work, and repair, replace, and relocate them as necessary for safe protection.

C. Provide such additional safety precautions as may be prescribed by authorities having jurisdiction.

1.04 ROADS AND ACCESSWAYS

A. Entrance to Work Site: The Contractor and subcontractors shall use only those access points or entrance ways as directed by the Owner.

1. Maintain access roads and parking areas in satisfactory condition during the Contract, and repair damages attributable to Work of this Project at intervals as needed. At completion of the Contract, roads, parking areas and entrance ways shall be left in condition at least equal to that existing

at start of the Contract, except as may be otherwise be required by the Contract documents.

1.05 TRAFFIC CONTROL, PUBLIC SAFETY AND CONVENIENCE

A. The CONTRACTOR shall at all times conduct his work so as to assure the least possible obstruction to traffic and inconvenience to the general public and provide adequate protection of persons and property in the vicinity of the work.

B. The work zone shall be maintained in accordance with Special Provisions of this Contract.

C. No roads shall be closed without prior written approval from the Engineer. Prior to any road closure the Contractor must present to the Engineer a detour plan with description on how resident access will be maintained and signage for the closure. Submittal of a road closure request to the Engineer does not guarantee approval by the Engineer. All additional traffic control required for road closures per the Contractors request shall be included in the cost of the applicable contract pay items.

1.06 USE OF VILLAGE PROPERTY

A. On-Site Storage and Work Areas: The work area is approximated on the plans by the construction fence around the site. If available, the Village may allocate available on-site storage and work areas to the Contractor, subject to change as may be necessary by job progress, such as site development or intervening work. This work area shall be considered any open area within the construction fence limits shown on the plans.

B. Village Property and Right-of-Way: Operations shall be confined to Village property and right-of-way to greatest extent, and shall not encroach on areas other than those designated or approved for such use by the Village.

    1. Ascertain, observe, and comply with rules and regulations in effect, including but not restricted to, parking and traffic regulations, hours of allowable ingress and egress to main arteries, and the like.

C. Existing Improvements in Streets and Parking Area: Existing signs, fire hydrants, underground valves and meter boxes, manholes, and other items occurring adjacent to the site shall be left undisturbed, unobstructed, and easily accessible at all times during construction, except as otherwise indicated or agreed to between Contractor and Village authorities.

D. Covering, moving, trimming, or altering which may become necessary shall be done only with consent of and in cooperation with Village authorities having jurisdiction. Contractor shall pay costs that may be incurred.

E. Make detailed examination of such Village property at start of work and conditions shall be noted by Contractor and confirmed by Village.

1. Village streets and other existing improvements therein adjacent to site, if damaged by this work, shall be repaired by the Contractor at intervals as needed. At the completion of the project, all such items not included in the Contract shall be left in condition at least equal to that at the start of operations.
2. Repair work shall conform to requirements of the Village. This includes, but is not restricted to, temporary walks for pedestrians, cleaning of mud and debris, air pollution control, and traffic control.

F. Protection of Trees and Shrubs: Existing trees and shrubs to remain shall not be injured during the course of this work. Trim tree only to the extent required for construction. Coordinate with Village and Property Owner for any tree trimming required.

1. If any tree or shrub during the course of, or as a result of construction operations is injured to extent of causing its permanent disfigurement or death, the Contractor shall pay the cost of damages to the Village fore each tree or shrub so injured, amount to be agreed upon by the Village and Contractor.

G. Protection of Existing Utilities: Protect from damage, existing utility lines not specified to be altered by Work of this Contract; any such features damaged shall be repaired or replaced to condition equal to that existing prior to commencing work of this Contract. Unless otherwise specified, maintain existing utility service at all times during construction. Utility service lines found entering site and not indicated to remain or to be incorporated in new Work, shall be plugged, capped, or otherwise abandoned by Contractor in manner satisfactory to Utility Companies whose services are involved, except as otherwise required.

1.07 CLEAN UP OF WORK AND DISPOSAL OF TRASH

A. Keep work and storage areas clean and free of rubbish and perform protective and cleanup work within one day of being so notified by the Owner.

B. Dispose of trash resulting from work. Recycle materials to the extent practicable.

1.08 SANITARY FACILITIES

A. Provide and maintain required facilities and enclosures at each construction location. Existing facility use is not permitted. Provide at time of project mobilization.

1.09 TEMPORARY WATER

A. Make arrangements for water required for construction purposes; furnish and install temporary piping or hose to carry water to every part of construction.

1.10 TEMPORARY ELECTRICITY

A. The site currently has a dedicated electric service for the existing lift station which may remain active until the service transfer is made between the old and new service (scheduled by the Contractor). The existing service shall not be modified in any way that impacts the operation of the existing lift station while still in service.

B. The Contractor shall make all necessary applications and arrangements and pay all fees and charges for electrical energy for power and light necessary for the proper completion of the Work and during its entire progress. The Contractor shall provide and pay for all temporary wiring, switches, connections, panelboards, outlets, lamps, fuses, controls, meters and accessories.

C. The electric service shall be of sufficient capacity and characteristics to supply the proper current for the various types of construction tools, motors, welding machines, lights, heating plant, pumps, and other work required.

D. The Contractor shall pay charges and fees by power company for providing the electrical service and for power used at no additional cost to the Owner.

   1. Perform all work in accordance with the power company's requirements and in manner approved by power company.

   2. Notify power company prior to work.

E. The Contractor shall provide sufficient electric lighting so that all work may be done in a workmanlike manner when there is not sufficient daylight.

1.11 DEWATERING FACILITIES

A. Provide and maintain dewatering and pumping facilities to keep site reasonably dry, and to protect materials and installed work from water damage until dewatering is no longer required. Remove dewatering facilities from site when no longer needed. The Contractor shall refer to 31 23 19 for additional dewatering specifics.

1.12 SECURITY

A. Contractor shall be responsible for security of Work involved in this Project, during entire time of Contract. Make good all damages to work and loss of materials due to vandalism or theft, within this responsibility.

1.13 TEMPORARY FENCING

A. Provide commercial grade chain link fence to prevent trespass by workmen and suppliers onto private property and the public from the construction site.

B. Provide 6-foot high fence around construction site. Equip fence with vehicular and pedestrian gates with locks.

C. Coordinate location of temporary fencing with Owner's Representative.

PART 2 – PRODUCTS

As specified in applicable sections of the Contract Documents.

PART 3 – EXECUTION

As specified in applicable sections of the Contract Documents.

PART 4 – MEASUREMENT AND PAYMENT

4.01 MEASUREMENT:

A. Measurement will not be made for the Work specified in this Section

4.02 PAYMENT

A. Payment for the Work specified under this section will be made at the lump sum price for TEMPORARY FACILITIES AND CONTROLS.

--- END OF SECTION ---

TEMPORARY BYPASS PUMPING SYSTEMS
SECTION 01 51 00

PART 1 – GENERAL

1.01 SUMMARY

A. Section Includes: Furnishing all materials, labor, equipment, power, maintenance, etc. to implement a temporary pumping system for the purpose of diverting the existing raw wastewater flow around the work area at each lift station for the durations specified and disassembly of the bypass pumping system as specified herein.

B. Be responsible for the design, installation and operation of the temporary pumping system. The bypass system shall meet the requirements of all codes and regulatory agencies having jurisdiction.

C. The Contractor is responsible to maintain flow into and out of the station throughout the contract period of construction. Once the Contractor mobilizes, the Village cedes responsibilities of station operations to the Contractor until Substantial Completion is reached.

1.02 SYSTEM DESCRIPTION

A. Bypass Pumping Layout

1. The existing lift station is arranged with a single 5-foot diameter wet well upstream of the dry well. This wet well has multiple incoming sewer flows with an estimated average daily flow of 72,000 GPD. manhole upstream of the wet-well from three gravity lines. 95% of the average daily flow comes from the 8” sewer entering the wet well from the north. The upstream gravity system has an estimated maximum 10,000 gallons of wet well, manhole, and in pipe storage before bypass pumping must be active or roughly 3-hours. There is no bypass pumping valving and pipe currently on site. It shall be the responsibility to review the site layout for the preparation and submittal of a bypass pumping plan.

B. Design Requirements:

1. Provide bypass pumping systems with firm capacity to pump down the flows listed in 1.02.A above.

2. Provide all pumps of adequate size to handle peak flow, and temporary discharge piping to ensure that the total flow of the main can be safely diverted around the pumping station. Bypass pumping system will be

required to operate 24 hours per day. Pump size shall match the duty point of the proposed pumps specified in Section 22 13 29.

3. Provide control system for the bypass pumping system which will run the pump(s) between preset levels. Additional controls are required to for high-high level and low-low Level alarms, and any pump faults.

4. Provide adequate standby equipment available and ready for immediate operation and use in the event of an emergency or breakdown. One standby pump for each size pump utilized shall be installed at the mainline flow bypassing locations, ready for use in the event of primary pump failure.

5. The bypass pumping system shall be capable of bypassing the flow around the work area as necessary for satisfactory performances of work.

6. Make all arrangements for bypass pumping during the time when the pumping station is shut down for any reason. System must overcome any existing force main pressure on discharge.

C. It is essential to the operations of the existing wastewater system that there be no interruption in the flow of sewage throughout the duration of the project. To this end, provide, maintain and operate all temporary facilities such as, pumping equipment (both primary and back-up units as required), conduits, all necessary power, and all other labor and equipment necessary to intercept the wastewater flow before it reaches the point where it would interfere with the work, carry it past the work and return it to the existing wastewater downstream of the work.

D. Provide all necessary means to safely convey the raw wastewater past the work area. Do not stop or impede the main flows under any circumstances.

E. Maintain wastewater flow around the work area in a manner that will not cause surcharging of wastewater, damage to existing pipe line and that will protect public and private property from damage and flooding.

F. Fluid Character: Provide pumping units to pump raw wastewater.

G. Furnish pumps which meet rating capacity and head indicated on Process Pump Schedule.

H. Pumps shall be capable of passing a minimum of a 3-inch non-deformable sphere.

1.03 SUBMITTALS

A. Provide all submittals, including the following, in accordance with Section 01 33 00, SUBMITTALS.

B. Data:

1. Pump Data:

a. Pump performance curves. Draw curves for the specified conditions. Include head, brake horsepower, efficiency and required NPSH, all plotted as a function of capacity, from zero to maximum capacity.
b. Calculations of static lift, friction losses, and flow velocity.
c. Submit a specific, detailed description of the proposed pumping system.
d. Submit operating descriptions, component descriptions, control schematics, electrical connection diagrams and general arrangement drawings, for control equipment.

D. Drawings:

1. Shop Drawings:

a. Submit shop drawings, including arrangement and erection drawings of the equipment and equipment operating characteristics. Include the following:

i. Submit detailed plans and descriptions outlining all provisions and precautions to be taken regarding the handling of existing wastewater flows. The plan shall include schedules, locations elevations, capacities of equipment, materials and all other incidental items necessary and/or required to insure proper protections of the facilities, including protection of the access and bypass pumping locations from damage due to the discharge flows, and compliance with the requirements and all permit conditions.
ii. The plan shall include but not be limited to details of the following:
(a) Staging areas for pumps;
(b) Number, size, material, location and method of installation of suction piping;
(c) Number, size, material, location of installation of discharge piping;
(d) Bypass pump sizes, capacity, number of each size to be on site and motor power of fuel requirements;
(e) Standby power generator size, location;

(f) Downstream discharge plan;
(g) Thrust and restraint block sizes and locations;
(h) Sections showing suction and discharge pipe depth, embedment, select fill and special backfill;
(i) Method of noise control for each pump and/or generator;
(j) Any temporary pipe supports and anchoring required;
(k) Design plans and computation for access to bypass pumping locations indicated on the drawings;
(l) Calculations for selection of bypass pumping pipe size;
(m) Schedule for installation of and maintenance of bypass pumping lines;
(n) Plan indicated selection location of bypass pumping line locations.

PART 2 – PRODUCTS

2.01 EQUIPMENT

A. All pumps used shall be centrifugal self-priming units that do not require the use of foot valves or Compressor in the priming system. The pumps shall be diesel or electric powered. Pumps shall have sound attenuation enclosure designed for operation at sound levels of 70 decibels and below. The Contractor is fully responsible for coordinating and obtaining temporary electrical service. All pumps used must be constructed to allow dry running for long periods of time to accommodate the cyclical nature of influent flows. The pumps shall not be hydraulic submersible type.

B. The Contractor shall include one stand-by temporary bypass pump to be maintained on site. Stand-by temporary bypass pumps shall be on-line and shall be piped into the inflow and to the bypass piping so that upon starting the stand-by pump shall take over and pick up the flow. Stand-by temporary bypass pumps shall be isolated from the primary bypass system by valving as required.

C. Provide the necessary stop/start control system for each pump. The control system shall remotely contact the contractor and the Village with notification of any problem. The contractor is responsible for responding within one (1) hour to the alarm and correcting the problem.

D. Discharge Piping – in order to prevent the accidental spillage of flows, all discharge systems shall be temporarily constructed of rigid pipe with positive, restrained joints.

E. Under no circumstances will aluminum “Irrigation” type piping and glued PVC pipe be allowed. Discharge hose will only be allowed in short sections and by

specific permission from the ENGINEER. Provide piping materials of steel pipe, ductile iron pipe, or fused, high density polyethylene pipe.

PART 3 – EXECUTION

3.01 PRECAUTIONS

A. Be responsible for locating any existing utilities in the area selected for installing the bypass pipelines. Locate bypass pipelines to minimize any disturbance to existing utilities and obtain approval of the pipeline locations from the ENGINEER. All costs associated with relocating utilities and obtaining all approvals shall be included in the Contract Price.

3.02 INSTALLATION AND REMOVAL

A. Make connections to the existing wastewater pipelines and construct temporary bypass pumping structures only at the access location indicated on the drawings and as may be required to provide adequate suction conduit.

B. Plugging or blocking of wastewater flows shall incorporate a primary and secondary plugging device. When plugging or blocking is no longer needed for performance and acceptance or work, it is to be removed in a manner that permits the wastewater flow to slowly return to normal without surge, to prevent surcharging or causing other major disturbances downstream.

C. The installation of the bypass pipelines is prohibited in all wetland areas. The pipeline must be located off streets and sidewalks and on shoulder of the roads. When the bypass pipeline crosses local streets and private driveways, place the bypass pipelines in trenches and cover with temporary pavement. Upon completion of the bypass pumping operations, and after the receipt of written permission from the ENGINEER, remove all the piping, restore all property to pre-construction condition and restore all pavement. Be responsible for obtaining any approvals for placement of the temporary pipeline within public ways from the city.

3.03 FIELD QUALITY CONTROL AND MAINTENANCE

A. Testing: Perform leakage and pressure tests of the bypass pumping discharge piping using clean water prior to actual operation. Test the piping at a test pressure of 50 psi. Provide 24 hours notice to the ENGINEER prior to testing.

B. Inspection: Inspect bypass pumping system as needed to ensure that the system is working correctly.

C. Maintenance Service: Ensure that the temporary pumping system is properly maintained and a responsible operator is on hand at all times when pumps are operating.

D. Extra Materials:

1. Spare parts for pumps and piping shall be kept on site as required.

2. Adequate hoisting equipment for each pump and accessories shall be maintained on the site.

PART 4 – MEASUREMENT AND PAYMENT

4.01 MEASUREMENT:

A. Measurement will not be made for the Work specified in this Section.

4.02 PAYMENT

A. Payment for the Work specified in this Section will be made at the lump sum price for TEMPORARY BYPASS PUMPING.

--- END OF SECTION ---

EROSION AND SEDIMENT CONTROL
SECTION 01 57 13

PART 1 – GENERAL

1.01 DESCRIPTION

A. General:
   1. Furnish all work and take all measures necessary to control soil erosion resulting from construction operations, prevent flow of sediment from construction site, and contain construction materials (including excavation and backfill) within protected working area.

B. Concrete Washout Basin:
   1. Concrete washout basin consists of installation, maintenance and subsequent removal and disposal of a concrete washout basin and shall be done in accordance with Sections 280 of the Standard Specifications and as shown on the plans. The washout basin shall be removed after concrete items have been installed. A concrete washout basin shall be supplied as necessary to accommodate concrete delivery operations. No more than one (1) washout basin will be permitted without approval from the Engineer. The washout basin location(s) must be approved by the Engineer prior to installation.

1.02 REFERENCE

A. Perform all Work of this Section in accordance with the applicable requirements of the latest edition of IEPA Standards and Specifications for Soil Erosion and Sediment Control and Article 280 of the Illinois State Standards for Road and Bridge Construction, latest edition.

1.03 SUBMITTALS

A. Two weeks prior to the start of the work, submit to Engineer, for review, a plan with detailed sketches showing the proposed methods to be used for controlling erosion during construction.

1.04 QUALITY ASSURANCE

A. Use acceptable procedures, including use of silt fence, inlet filters, and temporary concrete washout facilities.

B. Operations restricted to areas of work indicated on drawings and area which must be entered for construction of temporary or permanent facilities.

C. If construction materials are washed away during construction, remove materials from fouled areas.

D. Stabilize diversion outlets by means acceptable to Engineer.

PART 2 – PRODUCTS

A. All products and materials shall meet or exceed the requirements of IEPA Standard Specifications for Soil Erosion and Sediment Control.

B. Products shall comply with the details “Concrete Washout Area”, “Silt Fence Detail”, and “Inlet Protection – Paved Areas Drop-In Protection”.

PART 3 – EXECUTION

3.01 PROTECTION OF STREAMS, WETLANDS, AND SURFACE WATER:

A. Do not discharge chemicals, fuels, lubricants, bitumen, raw sewage and other harmful waste into or alongside any body of water or into natural or man-made channels.

B. The Contractor shall provide adequate means of erosion and sediment control all in accordance with the herein referenced IEPA and SSRBC Standard Specifications. The Contractor shall maintain continuous surveillance and shall continuously maintain, realign, repair or replace all erosion devices required for construction activities and/or as shown on the Drawings or requested by the Owner's Representative, that are displaced or damaged by wind, water, traffic, Contractor operations or any other cause. The maintenance of the erosion control plan shall be for the full length of the Contract unless otherwise specifically agreed upon in writing by the Owner.

PART 4 – MEASUREMENT AND PAYMENT

4.01 MEASUREMENT:

A. Measurement will not be made for the Work specified in this Section.

4.02 PAYMENT

A. Payment for the Work specified in this Section will be made at the lump sum price for EROSION AND SEDIMENT CONTROL.

--- END OF SECTION ---

MATERIAL AND EQUIPMENT
SECTION 01 60 00

PART 1 – GENERAL

1.01 DESCRIPTION

A. Furnish Proposed Manufacturers List: Within 15 calendar days of the date of the Notice to Proceed, submit to the ENGINEER a list of the names of proposed manufacturers, material men, suppliers, dealers and subcontractors. Obtain approval of this list by OWNER prior to submission of any shop drawings. Upon request submit evidence to ENGINEER that each proposed manufacturer has manufactured a similar product to the one specified and that it has previously been used for a like purpose for a sufficient length of time to demonstrate its satisfactory performance.

B. Provide material and equipment essential to the installation of the equipment and materials, and otherwise shown to be provided under this contract, which meet the following:

1. Standards: Design equipment and appurtenances in conformity with ANSI, ASME, IEEE, NEMA, OSHA, NACE, AGMA, AISC, AWWA, and other generally accepted standards. Equipment and appurtenances shall be of rugged construction and of sufficient strength to withstand all stresses which may occur during fabrication, testing, transportation, installation, and all conditions of operation.

2. Electrical Requirements: Electrical devices, motors, equipment, control panels, electrical equipment enclosures, and other electrical equipment appurtenances shall be labeled by UL or other approved testing agency. Shop drawings for electrical equipment shall denote that the represented material has the approved testing agency label. Nonlisted materials and special equipment devices not normally listed by the approved testing agency and labeled shall equal or exceed the latest standards for such types of equipment. The Contractor shall be responsible for providing the services of an electrical inspection firm to certify compliance of all nonlisted materials to the approved testing agency standards and for providing materials with an inspection label in accordance with the approved testing agency standards.

3. Complies with size, make, type, and quality specified or as specifically approved, in writing, by ENGINEER.

4. Will fit into the space provided with sufficient room for operation and maintenance access and to properly connect to piping, ducts and services as applicable.

5. Manufacture and fabricate in accordance with the following:

    a. Design, fabricate, and assemble in accordance with the standards referenced and the requirements given in the pertinent sections, clauses, paragraphs, and sentences, both directly and indirectly applicable thereto, in that part of the Contract Documents.

    b. Provide equipment which is new, unused, and correctly designed. It shall be of standard first-grade quality, produced by expert workmen.

    c. Details shall be designed for appearance as well as utility. Protruding members, joints, corners, and the like, shall be finished in appearance. All exposed welds shall be ground smooth and the corners of structural shapes shall be mitered.

    d. Manufacture like parts of duplicate units to standard sizes and gauges, to be interchangeable.

    e. Provide two or more items of same kind identical, by same manufacturer.

    f. Provide materials and equipment suitable for service conditions.

    g. Adhere to equipment capabilities, sizes, and dimensions shown or specified unless variations are specifically approved, in writing, in accordance with the Contract Documents.

6. Use material or equipment only for the purpose for which it is designed or specified.

1.02 SUBSTITUTIONS

A. Substitutions:

    1. CONTRACTOR'S requests for changes in equipment and materials from those required by the Contract Documents are considered requests for substitutions and are subject to CONTRACTOR'S representations and review provisions of the Contract Documents when one of following conditions are satisfied:

        a. Where required equipment or material cannot be provided within Contract Time, but not as result of CONTRACTOR'S failure to pursue Work promptly or to coordinate various activities properly.

b. Where required equipment or material cannot be provided in manner compatible with other materials of Work, or cannot be properly coordinated therewith.

2. CONTRACTOR'S Options:

a. Where more than one choice is available as options for CONTRACTOR'S selection of equipment or material, select option compatible with other equipment and materials already selected (which may have been from among options for other equipment and materials).

b. Where compliance with specified standard, code or regulation is required, select from among products which comply with requirements of those standards, codes, and regulations.

B. Conditions Which are Not Substitution:

1. Requirements for substitutions do not apply to CONTRACTOR options on materials and equipment provided for in the Specifications.

2. Revisions to Contract Documents, where requested by OWNER or ENGINEER, are "changes" not "substitutions".

3. CONTRACTOR'S determination of and compliance with governing regulations and orders issued by governing authorities do not constitute substitutions and do not constitute basis for a Change Order, except as provided for in Contract Documents.

1.03 MANUFACTURER’S WRITTEN INSTRUCTIONS

A. Instruction Distribution: When the Contract Documents require that installation, storage, maintenance and handling of equipment and materials comply with manufacturer's written instructions, obtain and distribute printed copies of such instructions to parties involved in installation, including three copies to ENGINEER. Maintain one set of complete instructions at job site during storage and installation, and until completion of work.

B. Manufacturer's Requirements: Store, maintain, handle, install, connect, clean, condition, and adjust products, equipment, and materials in accordance with manufacturer's written instructions and in conformity with Specifications.

1. Should job conditions or specified requirements conflict with manufacturer's instructions, consult ENGINEER for further instructions.

2. Do not proceed with work without written instructions.

C. Performance Procedures: Perform work in accordance with manufacturer's written instructions. Do not omit preparatory steps or installation procedures, unless specifically modified or exempted by Contract Documents.

D. Documentation: The CONTRACTOR shall document that CONTRACTOR has conformed to Manufacturer's Requirements and submit written documentation to OWNER.

1.04 TRANSPORTATION AND HANDLING

A. Coordination with Schedule: Arrange deliveries of products, materials, and equipment in accordance with Construction Progress Schedules. Coordinate to avoid conflict with work and conditions at site.

1. Deliver products and move from storage materials and equipment in undamaged condition, in manufacturer's original containers or packaging, with identifying labels intact and legible.

2. Protect bright-machined surfaces, such as shafts and valve faces, with a heavy coat of grease prior to shipment.

3. Immediately upon delivery, inspect shipments of products, materials, and equipment to determine compliance with requirements of Contract Documents and approved submittals and that material and equipment are protected and undamaged.

B. Handling: Provide equipment and personnel to handle products, materials, and equipment by methods recommended by manufacturer to prevent soiling or damage to materials and equipment or packaging.

1.05 STORAGE, PROTECTION, AND MAINTENANCE

A. General: Store and maintain equipment and materials from the time of delivery until the time the CONTRACTOR moves the equipment from storage for installation. Provide all storage facilities and storage maintenance in accordance with these requirements.

B. Exterior storage areas:

1. Coordinate location of storage areas with ENGINEER and OWNER.

2. Arrange on-site storage areas for proper protection and segregation of stored materials and equipment with proper drainage. Provide for safe travel around storage areas and safe access to stored materials and equipment.

3. Storage site shall be located within the boundaries of the 6-foot tall security fencing specified in Section 01 50 00, and as shown on the plans.

4. Store loose granular materials in a well-drained area on solid surfaces to prevent mixing with foreign matter.

5. Store materials such as pipe, reinforcing and structural steel, and equipment on pallets, blocks or racks, off ground.

6. Store fabricated materials and equipment above ground, on blocking or skids, to prevent soiling or staining. Cover materials and equipment which are subject to deterioration with impervious sheet coverings; provide adequate ventilation to avoid condensation.

C. Interior Storage:

1. Store materials and equipment in accordance with manufacturer's instructions, with seals and labels intact and legible.

2. Store materials and equipment, subject to damage by elements, in weather tight enclosures.

4. Maintain temperature and humidity within ranges required by manufacturer's instructions.

C. Accessible Storage: Arrange storage in a manner to provide easy access for inspection and inventory. Make periodic inspections of stored materials or equipment to assure that materials or equipment are maintained under specified conditions and free from damage or deterioration.

1. Perform maintenance on stored materials of equipment in accordance with manufacturer's instructions, in presence of OWNER or ENGINEER.

2. Submit a report of completed maintenance to ENGINEER with each Application for Payment.

3. Failure to perform maintenance, to notify ENGINEER of intent to perform maintenance or to submit maintenance report may result in rejection of material or equipment.

D. OWNER'S Responsibility: OWNER assumes no responsibility for materials or equipment stored in buildings or on-site.

E. CONTRACTOR'S Responsibility:

1. CONTRACTOR assumes full responsibility for protection of the equipment.

2. CONTRACTOR assumes full responsibility for protection of completed construction and installation. Repair and restore damage to completed Work equal to its original condition.

D. Special Equipment: Use only rubber tired wheelbarrows, buggies, trucks, or dollies to wheel loads over finished floors, regardless if the floor has been protected or not. This applies to finished floors and to exposed concrete floors as well as those covered with composition tile or other applied surfacing.

E. Surface Damage: Where structural concrete is also the finished surface, take care to avoid marking or damaging surface.

1.06 SPECIAL TOOLS AND LUBRICATING EQUIPMENT

A. General: Contractor shall provide for his own use, as per manufacturer's recommendations, any and all special tools required for installation, checking, alignment, balancing, testing, parts replacement, and maintenance. (Special tools are those which have been specially designed or adapted for use on parts of the equipment, and which are not customarily and routinely carried by maintenance mechanics.)

PART 2 – PRODUCTS

As specified in applicable sections of the Contract Documents.

PART 3 – EXECUTION

As specified in applicable sections of the Contract Documents.

PART 4 – MEASUREMENT AND PAYMENT

Work specified in this Section will not be measured or paid for as a separate item, but shall be considered as included in the prices bid for the various pay items of work involved.

--- END OF SECTION ---

MOBILIZATION AND DEMOBILIZATION
SECTION 01 71 13

PART 1 – GENERAL

1.01 SCOPE:

A. The work consists of the mobilization and demobilization of the contractor's forces and equipment necessary for performing the work required under the contract. Mobilization will not be considered as work in fulfilling the contract requirements for commencement of work.

1.02 MOBILIZATION:

A. Mobilization shall include all activities and associated costs for transportation of contractor's personnel, equipment, and operating supplies to the site; establishment of offices, buildings, and other necessary general facilities for the contractor's operations at the site; premiums paid for performance and payment bonds including coinsurance and reinsurance agreements as applicable; and other items specified in this specification.

1.03 DEMOBILIZATION:

A. Demobilization shall include all activities and costs for transportation of personnel, equipment, and supplies not required or included in the contract from the site; including the disassembly, removal, and site cleanup of offices, buildings, and other facilities assembled on the site specifically for this contract.

PART 2 – PRODUCTS

As specified in applicable sections of the Contract Documents.

PART 3 – EXECUTION

Mobilization schedule shall be presented at the Preconstruction Meeting. Notification of changes in mobilization and demobilization schedules shall be submitted to the Owner 48 hours in advance of mobilization / demobilization activities.

PART 4 – MEASUREMENT AND PAYMENT

4.01 MEASUREMENT:

A. MOBILIZATION AND DEMOBILIZATION will not be measured for payment.

4.02 PAYMENT

A. This work will be paid for at the lump sum price for MOBILIZATION AND DEMOBILIZATION.

B. The amount of which the Contractor will receive payment for, according to the following schedule, will be limited to one percent of the original contract amount. Should the bid for MOBILIZATION AND DEMOBILIZATION exceed one percent, the amount over one percent will not be paid until 90 percent of the adjusted contract value is earned.

    1. Upon execution of the contract, 75 percent of the pay item will be paid.

    2. Upon completion of 90 percent of the adjusted contract value, the remaining 25 percent of the pay item will be paid along with any amount in excess of one percent of the original contract amount.

--- END OF SECTION ---

CLOSEOUT PROCEDURES
SECTION 01 77 00

PART 1 – GENERAL

1.01 CLOSEOUT PROCEDURES

A. Submit written certification that Contract Documents have been reviewed, Work has been inspected, and that Work is complete in accordance with Contract Documents and ready for Engineer's review.

B. Provide submittals to Engineer that are required by governing or other authorities.

C. Submit final Application for Payment identifying total adjusted Contract Sum, previous payments, and sum remaining due.

1.02 FINAL CLEANING

A. Provide final cleaning prior to final acceptance.

B. Clean interior and exterior, surfaces exposed to view; remove temporary labels, stains and foreign substances, polish transparent and glossy surfaces.

C. Clean equipment and fixtures to a sanitary condition with cleaning materials appropriate to the surface and material being cleaned.

D. Replace filters of operating equipment.

E. Clean all sanitary manholes and storm sewer manholes, catch basins, and inlets.

F. Clean site; sweep paved areas, rake clean landscaped surfaces.

G. Remove waste and surplus materials, rubbish, and construction facilities from the site.

1.03 STARTING OF SYSTEMS

A. Coordinate schedule for start-up of various equipment and systems.

B. Notify Engineer seven days prior to start-up of each item.

C. Verify that each piece of equipment or system has been checked for proper lubrication, drive rotation, belt tension, control sequence, and for conditions which may cause damage.

D. Verify tests, meter readings, and specified electrical characteristics agree with those required by the equipment or system manufacturer.

E. Verify that wiring and support components for equipment are complete and tested.

F. Execute start-up under supervision of applicable manufacturer's representative in accordance with manufacturers' instructions.

G. When specified in individual specification Sections, require manufacturer to provide authorized representative to be present at site to inspect, check, and approve equipment or system installation prior to start-up, and to supervise placing equipment or system in operation.

H. Submit a written report in accordance with Section 01 33 00 that equipment or system has been properly installed and is functioning correctly.

1.04 DEMONSTRATION AND INSTRUCTIONS

A. Demonstrate operation and maintenance of products to Owner's personnel 2 weeks prior to date of Substantial Completion.

B. Demonstrate Project equipment and instruct in a classroom environment located at the project site and instructed by a qualified manufacturer's representative who is knowledgeable about the Project.

C. Utilize operation and maintenance manuals as basis for instruction. Review contents of manual with Owner's personnel in detail to explain all aspects of operation and maintenance.

D. Demonstrate start-up, operation, control, adjustment, trouble-shooting, servicing, maintenance, and shutdown of each item of equipment at each location.

E. Prepare and insert additional data in operations and maintenance manuals when need for additional data becomes apparent during instruction.

F. Amount of time required for instruction on each item of equipment and system is that specified in individual sections.

1.05 PROTECTING INSTALLED CONSTRUCTION

A. Protect installed Work and provide special protection where specified in individual specification sections.

B. Provide temporary and removable protection for installed products. Control activity in immediate work area to prevent damage.

C. Protect finished floors, stairs, and other surfaces from traffic, dirt, wear, damage, or movement of heavy objects, by protecting with durable sheet materials.

D. Prohibit traffic from landscaped areas.

1.06 PROJECT RECORD DOCUMENTS

A. Maintain on site one set of the following record documents; record actual revisions to the Work:

1. Drawings.

2. Specifications.

3. Addenda

4. Change Orders and other modifications to the Contract.

5. Reviewed Shop Drawings, Product Data, and Samples.

6. Manufacturer's instruction for assembly, installation, and adjusting.

B. Ensure entries are complete and accurate, enabling future reference by Owner.

C. Store record documents separate from documents used for construction.

D. Record information concurrent with construction progress, not less than weekly.

E. Specifications: Legibly mark and record at each product section description of actual products installed, including the following:

1. Manufacturer's name and product model and number.

2. Product substitutions or alternates utilized.

3. Changes made by Addenda and modifications.

F. Record Drawings: Legibly mark each item to record actual construction including:

1. Measured depths of foundations in relation to finished floor datum.

2. Measured horizontal and vertical locations of underground utilities and appurtenances, referenced to permanent surface improvements.

3. Measured locations of internal utilities and appurtenances concealed in construction, referenced to visible and accessible features of the Work.

4. Field changes of dimension and detail.

5. Details not on original Contract Drawings.

6. All elevations shall be recorded on the NAVD 88 datum, consistent with the plans.

7. As-builts with insufficient recorded information will be rejected. In particular the contractor shall note where all elevation adjustments and alignment adjustments have been installed.

8. As-builts must be turned in with the Contractors notice of completion. Failure to submit as-builts with the notice of completion will begin to trigger liquidated damages after the project completion date or when working days have been exhausted.

G. Submit documents to Engineer with claim for final Application for Payment.

1.07 OPERATION AND MAINTENANCE DATA

A. Operation and maintenance data shall be in English language.

B. Submit data bound in 8-1/2" x 11" text pages, 3-D side ring binders with durable plastic covers.

C. Prepare binder cover with printed title "OPERATION AND MAINTENANCE INSTRUCTIONS," title of project, and subject matter of binder when multiple binders are required.

D. Internally subdivide the binder contents with permanent page dividers, logically organized as described below; with tab titling clearly printed under reinforced laminated plastic tabs.

E. Drawings: Provide with reinforced punched binder tab. Bind in with text; fold larger drawings to size of text pages.

F. Contents: Prepare a Table of Contents for each volume, with each product or system description identified, typed on white paper, in three parts as follows:

1. Part 1: Directory, listing names, addresses, and telephone numbers of Engineer, Contractor, Subcontractors, and major equipment suppliers.

2. Part 2: Operation and maintenance instructions, arranged by system and subdivided by specification section. For each category, identify names, addresses, and telephone numbers of Subcontractors and suppliers. Identify the following:

    a. Significant design criteria.
    b. List of equipment.
    c. Parts list for each component.
    d. Operating instructions.
    e. Maintenance instructions for equipment and systems.

    f. Maintenance instructions for finishes, including recommended cleaning methods and materials, and special precautions identifying detrimental agents.

3. Part 3: Project documents and certificates, including the following:

    a. Shop drawings and product data.
    b. Air and water balance reports.
    c. Certificates.
    d. Originals or Photocopies of warranties and bonds.

G. Submit draft copy of completed volumes 15 calendar days prior to final inspection. Draft copy will be reviewed and returned after final inspection, with Engineer comments. Revise content of all document sets as required prior to final submission.

H. Submit 3 sets of revised final volumes, within 10 calendar days after final inspection.

I. Submit digital format of manuals in PDF format in addition to hardcopies described above.

1.08 SPARE PARTS AND MAINTENANCE PRODUCTS

A. Provide spare parts, maintenance, and extra products in quantities specified in individual specification sections.

B. Deliver to Project site and place in location as directed; obtain receipt prior to final payment.

1.09 PRODUCT WARRANTIES AND PRODUCT BONDS

A. Obtain warranties and bonds executed in duplicate by responsible subcontractors, suppliers, and manufacturers, within ten calendar days after completion of the applicable item of work.

B. Execute and assemble transferable warranty documents and bonds from subcontractors, suppliers, and manufacturers.

C. Verify that documents are in proper form, contain full information, and are notarized.

D. Co-execute submittals when required.

C. Provide Table of Contents and assemble in 3-D side ring binder with durable plastic cover.

D. Submit prior to final Application for Payment.

E. Time of Submittals:

1. For equipment or component parts of equipment put into service during construction with Owner's permission, submit documents within 10 days after acceptance.

2. Make other submittals within 10 calendar days after Date of Substantial Completion, prior to final Application for Payment.

3. For items of Work for which acceptance is delayed beyond Date of Substantial Completion, submit within 10 calendar days after acceptance, listing the date of acceptance as the beginning of the warranty or bond period.

1.10 MAINTENANCE SERVICE

A. Furnish service and maintenance of components indicated in specification sections for 2 years from date of Substantial Completion.

B. Examine system components at a frequency consistent with reliable operation. Clean, adjust, and lubricate as required.

C. Include systematic examination, adjustment, and lubrication of components. Repair or replace parts whenever required. Use parts produced by the manufacturer of the original component.

D. Maintenance service shall not be assigned or transferred to any agent or Subcontractor without prior written consent of the Owner.

PART 2 – PRODUCTS

As specified in applicable sections of the Contract Documents.

PART 3 – EXECUTION

PART 4 – MEASUREMENT AND PAYMENT

Work specified in this Section will not be measured or paid for as a separate item, but shall be considered as included in the prices bid for the various pay items of work involved.

--- END OF SECTION ---

SITE PREPARATION
SECTION 02 10 00

PART 1 – GENERAL

1.01 DESCRIPTION

A. Provide labor, material, tools and equipment to prepare site as indicated and specified.

PART 2 – PRODUCTS

As specified in applicable sections of the Contract Documents.

PART 3 – EXECUTION

3.01 EXISTING TREES AND VEGETATION

A. Avoid cutting or injuring trees and vegetation outside easement line and outside areas to be cleared as indicated, without Engineer's permission.

B. Accept responsibility for damages outside these lines.

C. Remove trees within permanent and temporary easement as shown on the plans in accordance with IDOT SSRBC, Section 201.

D. All damage to existing hardscape from tracked equipment shall be replaced at the Contractor's expense. It is recommended rubber tired or rubber tracked equipment is used. Any unwarranted disturbance to the existing hardscape to remain will warrant repairs made joint to joint and in conformance with the bid documents. All work shall be done to the satisfaction of the Engineer. The Engineer shall determine with the Village limits of removals and replacements due to the Contractor's negligence.

3.02 CLEARING

A. Cut or remove trees, brush, and other vegetative matter such as snags, bark and refuse, from areas to be cleared. Clear ground to width of permanent easement unless otherwise directed.

B. Cut trees, stumps, and stubs to be cleared, except where clearing done by machinery, as close to ground surface as practicable, but no more than 6 in. above ground surface for small trees and 12 in. for larger trees.

3.03 GRUBBING, STRIPPING, DISPOSAL

A. Remove stumps and roots larger than 3 in. in diameter to a depth of 12 in., and roots larger than ½ in. in diameter to a depth of 6 in. Measure depths to cut from existing ground surface or proposed finished grade, whichever is lower.

B. Strip stumps, roots, foreign matter, topsoil and unsuitable earth from ground surface. Utilize topsoil insofar as possible for finished surfacing.

C. Promptly dispose off site material from clearing and grubbing not reused or stockpiled. In doing so, observe all applicable laws, ordinances, rules and regulations. Do not consider work completed until final cleaning, unless otherwise directed.

PART 4 – MEASUREMENT AND PAYMENT

4.01 MEASUREMENT:

A. TREE REMOVAL will be measured for payment in Units as specified in Section 201.10.b of the IDOT SSRBC.

4.02 PAYMENT:

A. Payment for the Work specified in this Section will be made at the contract unit price per unit diameter for TREE REMOVAL which includes all work in this specification including stump removal of the tree being removed.

--- END OF SECTION ---

DEMOLITION
SECTION 02 41 00

PART 1 – GENERAL

1.01 SCOPE

A. This work shall consist of the complete demolition of all items shown on the Existing Conditions and Demolition Plan, further outlined in 1.01.B – G.

B. Wet Well Demolition:

1. Equipment, piping and other materials to be removed from the wet and disposed of include, but are not limited to:

    a. Float system.
    b. Pressure transducer.
    c. Sump pump discharge pipe.

2. Abandon existing suction lines by installing 2’ non-shrink concrete / mortar plug.

3. Pull all abandoned cables, and remove all abandoned conduit to be flush with the wet well wall. Plug conduit penetrations with 2’ non-shrink concrete mortar plug.

4. Holes left at the bottom and the sides of the wet well walls shall be sealed with a high performance, non-metallic, non-shrink cementitious grout such as SikaGrout 212 or approved equal.

5. Fill bottom 3.77’ of existing wet well with concrete and form new bench with 5% sloped floor to new outlet.

C. Dry Well Demolition:

1. Equipment and piping to be removed from the dry well and disposed of include, but are not limited to:

    a. Access hatch, ladder and tube.
    b. Pumps.
    c. Existing dry well equipment (blower, electrical panel, sump pump, dehumidifier, lighting, conduit, etc.)

2. Backfill existing dry well and access riser with flowable fill after removals.

D. SCADA / Emergency Power Panel

1. Remove and return to the Village, existing SCADA panel components requested by the Village for salvaging.
2. Demolish and remove concrete foundation including cutting conduit down to 30” below grade.

E. Other Demolition

1. Remove existing roadway pavement, curb and gutter, and sidewalk as shown on the plans and specified elsewhere in the Village special provisions.

2. Abandon existing electrical service including removal of existing electric meter and transformers, including coordination with ComEd. Conductors feeding meter shall also be removed after new ComEd service is energized by ComEd.

3. Abandon existing force main between dry well and new force main point of connection. Remove ±5’ of existing force main at new connection point and plug abandoned end with 2’ non-shrink concrete / mortar plug.

4. Remove existing 8” VCP sanitary sewer as needed to install proposed sewer and wet well (approximately 35 LF).

F. Basic Procedures and Schedule: Carry out demolition so that adjacent structures, which are to remain, are not endangered. Schedule the work so as not to interfere with the day to day operation of the existing facilities. Do not block doorways or passageways in existing facilities.

G. Additional Requirements: Provide dust control for existing and new equipment protection and make provisions for safety.

1.02 SCHEDULING

A. Perform Work in manner which will provide least interference and most protection to public and existing construction. Contractor's operations subject to approval by Owner prior to commencement of Work.

B. Carefully coordinate time and manner of demolition work with Engineer to assure continued operation of existing facilities and to maintain construction schedule requirements.

C. Owner's use of premises shall have priority over work in all Contract(s).

D. Minimize outages of electrical systems.

E. Coordinate electrical system outages with Owner and service utility. Notify Owner in writing at least 24 hours prior to electrical outage. Indicate system to be disabled, areas affected, proposed date and time of outage, duration, and work to be performed.

F. Outages of following electrical systems shall be performed only with written permission of Owner.

1. Power distribution.

2. Fire alarm.

3. Telephone or Radios SCADA communication.

1.03 SUBMITTALS

A. The Contractor shall submit to the Owner for review a description of demolition operations and procedures, data and information pertaining to the demolition Work and as herein specified. Submittals shall include product specifications and descriptions, and drawings (when necessary) showing details together with related accessories. All submittals shall comply with the applicable requirements of Section 01 33 00.

B. The Contractor shall submit a schedule in compliance with Part 1.02 of this Section.

C. The Contractor shall submit material test reports on samples of all fill and backfill.

D. The Contractor shall submit a material in-situ compaction test report for backfill required by the demolition operations.

E. Provide submittals as required during utility identification, relocates and protection. Provide submittals as required by the utility involved and / or having jurisdiction. Submittals shall be directly to the utility involved with copy to the Engineer.

1.04 QUALITY ASSURANCE

A. Utility Identification, Relocate and Protection

1. Perform all Work of this Section in accordance with the applicable requirements of codes and standards of the agency / utilities involved. Comply with IDOT Standard Specifications (Sections 105.07 and 107.31) for Cooperation with Utilities and Contractor Responsibility.

B. Retain services of a qualified professional soils consultant and testing laboratory. Responsibilities of soils consultant will include:

1. Sampling, testing, and approval of fill or backfill materials prior to and during placement.

2. Sampling and testing to determine moisture-density, maximum density and relative density characteristics of materials.

3. Observation of placement, selection of test locations and testing of material during placement to determine that specified compaction requirements are met.

4. Provide reports to Owner giving information on materials and testing performed.

5. Bind all reports and recommendations in one report at end of Project and submit to Owner.

6. Soils consultant shall provide evidence of professional registration in state where Work is performed and Professional Liability Insurance covering its activities in investigation, evaluation and production of reports dealing with subsurface soils investigations.

C. Temporary electrical construction necessary to maintain existing system during construction shall comply with NEC Article 590.

D. Regulatory requirements:

1. Comply with governing EPA notification regulations before starting demolition. Comply with hauling and disposal regulations of authorities having jurisdiction. Obtain and pay for all permits required.

2. Conform to applicable requirements of state, and other governmental agencies for demolition work.

1.05 SITE CONDITIONS

A. Known underground piping, foundations, and other underground obstructions in vicinity of new construction are shown on Drawings.

B. Protect underground facilities encountered during excavation until it is determined whether they are active or inactive. Repair, without compensation, existing active facilities shown on Drawings damaged during operations.

C. Notify Engineer and Owner of unexpected subsurface conditions and discontinue Work in area until Owner provides notification to resume Work.

PART 2 – PRODUCTS

2.01 MATERIALS OWNERSHIP

A. Except for items or materials indicated to be reused, salvaged, reinstalled, or otherwise indicated to remain property of Owner, demolished materials shall become Contractor's property and shall be removed, recycled, or disposed from Project Site in appropriate and legal manner.

2.02 Structures Fill

A. Stone Aggregate: CA-7 per SSRBC, Section 1004.

B. Controlled Low Strength Material: Section 1019.

PART 3 – EXECUTION

3.01 VERIFICATION OF CONDITIONS

A. Inspect structures where demolition is required. Inspect existing Drawings of buildings and structures; Drawings are available from Owner.

B. Perform excavation and dewatering necessary to accomplish Work.

C. Determine actual Site conditions, extent to which demolition is required, and method of demolition.

D. Schedule work with Owner and work in other parts of these Contract Documents.

E. Perform surveys as required prior to demolition and as Work progresses to detect hazards resulting from demolition activities.

3.02 PREPARATION

A. Conduct demolition operations and remove C&D materials to ensure minimum interference with roads, streets, walks, and other adjacent occupied and utilized facilities.

B. Do not close or obstruct streets, walks, or other adjacent occupied or utilized facilities without permission from authorities having jurisdiction. Provide alternate routes around closed or obstructed traffic ways if required by governing regulations.

C. Conduct demolition operations to prevent injury to people and damage to adjacent buildings and facilities to remain. Ensure safe passage of people around demolition area.

D. Protect existing Site improvements, appurtenances, and landscaping that are designated to remain in place.

3.03 UTILITY IDENTIFICATION, RELOCATES AND PROTECTION

A. Active utilities which do not interfere with the Work shall be supported and protected from damage. After Engineer review and obtaining the utility's approval, relocate or remove active utilities which will interfere with Work. The Contractor shall pay for all damage to active utilities and for relocation or removal of all interfering utilities which are ascertainable from Drawings, surveys or site inspection, including J.U.L.I.E meet to be scheduled by the Contractor.

B. Inactive or abandoned utilities and appurtenant structures encountered shall be filled or removed to avoid interference as directed by the Owner's Representative and/or the Utility. Exposed ends of abandoned lines shall be plugged or capped in a water-tight manner.

3.04 EXPOLOSIVES

A. Explosives: Use of explosives not permitted.

3.05 DEMOLITION – GENERAL

A. Below-grade construction: Demolish foundation walls and other below-grade construction, as follows:

1. Pipes abandoned in place shall be cut and capped as indicated on drawings.

2. Any below-grade valves demolished shall be removed, and remaining pipe cut and capped.

3. Below-grade areas: Completely fill below-grade areas and voids resulting from demolition operations to street level with satisfactory soil materials.

B. Damages: Promptly repair damages to adjacent facilities caused by demolition operations.

C. Remove existing construction as specified and shown and as required to permit new construction.

D. Perform removal in manner that will minimize dust, noise, and other nuisance. Maintain haul routes for disposal of material clean and free of debris.

C. Remove existing construction carefully providing for neat and orderly junctions at construction to remain in place. Final appearance of exposed surfaces shall be similar and equal to that of adjacent existing work. Grind off rough surfaces to remove sharp projections.

D. Any portion of existing construction whether structural, or accessory which has become unstable through removal of other parts of construction shall be removed as soon as practicable, and no such unstable part shall be left free-standing or inadequately braced against causes of collapse at end of each day's work.

E. No demolition shall be performed on piping, electrical circuits, or equipment until system has been isolated by owner of the utility. Contractor shall verify isolation of system.

F. Contractor shall relocate existing active miscellaneous piping, conduit, and electrical circuits and devices not detailed on Drawings but required for installation of equipment and items installed by this Contract.

3.06 DEMOLITION OF MECHANICAL ITEMS

A. Remove mechanical equipment and materials as shown on Drawings and as specified.

B. Removal shall include but not limited to piping, valves, equipment, hangers, and associated accessories.

3.07 DEMOLITION OF ELECTRICAL ITEMS

A. Examination:

1. Verify that abandoned wiring and equipment serve only abandoned facilities.

2. Demolition drawings are based on cursory field observation and existing record documents. Report discrepancies to Owner before disturbing existing installation.

B. Preparation:

1. Before beginning underground demolition, contact Owner, and local utilities locating service JULIE at least 24 hours before digging.

2. Contact Owner to determine equipment items are to be salvaged and delivered to storage area. Other equipment shall become property of Contractor and shall be removed from job site.

3. Coordinate utility service outages with utility company.

4. Provide temporary wiring and connections to maintain existing systems in service during construction.

5. Existing electrical service: maintain existing system in service until new system is complete and ready for service. Disable system only to make switchovers and connections. Obtain permission from Owner at least 24 hours before partially or completely disabling system.

C. Demolition and extension of existing electrical work:

1. Remove, relocate, and extend existing installations to remain to accommodate new construction.

2. Remove abandoned wiring to source of supply.

3. Disconnect abandoned outlets and remove devices. Remove abandoned outlets if conduit servicing them is abandoned and removed. Provide blank cover for abandoned outlets which are not removed.

4. Disconnect and remove following:

    a. Abandoned panelboards and distribution equipment.
    b. Devices and equipment serving utilization equipment that has been removed.
    c. Abandoned light fixtures, including brackets, stems, hangers, and other accessories.

5. Repair adjacent construction and finishes damaged during demolition and extension work.

6. Maintain safe access to existing electrical installations which remain active.

3.08 HANDLING OF DEMOLISHED MATERIALS

A. Salvageable materials, except items specified to remain property of Owner, shall become property of Contractor and shall be removed from Site as Work progresses.

B. Promptly re-use, salvage, recycle, or dispose of demolished materials. Do not allow demolished materials to accumulate or be stored on-site for more than 5 days.

C. Certain equipment and material shall be removed and reinstalled as indicated on Drawings and specified herein. Contractor shall remove such items, store if required, and reinstall as indicated. In event of loss or damage to such material or equipment, Contractor shall replace items without additional cost to Owner.

D. Storage of materials to be removed not permitted to accumulate on site. Promptly remove and dispose of unsalvageable equipment and materials.

E. Burning: Do not burn demolished materials.

F. Debris shall not be allowed to accumulate on roofs, floors, or in areas outside of and around any buildings being removed. Waste materials and debris resulting from Work shall be removed and disposed of daily by Contractor in disposal area obtained by Contractor.

G. No material, obstructions, or debris shall be placed or allowed to accumulate within 15' of any fire hydrant. Fire hydrants shall be accessible at all times.

3.09 DISPOSAL OF MATERIALS

A. Transport demolished materials from construction sites and legally recycle or dispose of materials.

B. Special Waste and Hazardous Materials: If special waste and/or hazardous materials are encountered in areas other than those indicated on the Drawings during demolition operations, comply with applicable regulations, laws, and ordinances concerning removal, handling and protection against exposure or environmental pollution.

3.10 REPAIR AND RESTORATION

A. Contractor shall be responsible for damage to personnel, public, roadways, streets, structures, utilities, facilities, and equipment caused by operations and shall repair any damage at its own expense or replace items damaged beyond repair.

B. Do not operate vehicles or equipment on existing construction or roadways that could be damaged.

C. Backfill applicable excavated areas, open pits, and other depressions as work progresses. Backfill materials shall conform to requirements of Drawings and other specification sections.

D. Grade areas disturbed by construction to smooth, uniform surfaces sloped to drain.

E. Replace construction removed to facilitate operations with construction of equal quality to that removed.

3.11 CLEAN-UP

A. Maintain public streets, alleys, or other thoroughfares used in carrying out disposal free of litter or soil attributable to this operation. Equip and load trucks or other vehicles to prevent leakage, blowing off, or other escape of any portion of whatsoever is being hauled. Cost incurred by Owner in cleaning up such litter will be charged to Contractor and deducted from monies due or to become due it under this contract.

B. Upon completion of demolition work in each area, thoroughly clean area of materials not to remain.

C. Remove materials (except paint) adhered to construction to remain.

D. Leave areas in broom clean and vacuumed condition.

PART 4 – MEASUREMENT AND PAYMENT

4.01 MEASUREMENT:

A. Measurement will not be made for the Work specified in this Section.

4.02 PAYMENT

A. Payment for the Work specified in this Section will be made at the lump sum price for DEMOLITION and shall include all items listed in Part 1.01 and shown on the Existing Conditions and Demolition Plan.

--- END OF SECTION ---

CONCRETE WORK
SECTION 03 00 00

PART 1 – GENERAL

1.01 SUMMARY

This Section specifies precast and cast-in-place concrete including formwork, reinforcing steel, and miscellaneous materials. Specific items related to the project include:

A. Wet well top slab with integrally cast access hatch.

B. Wet well.

C. Valve / meter / bypass vault with integrally cast porta-con emergency coupling hatch, and access hatches (2).

D. Concrete traffic box enclosure pad.

E. Concrete generator pad.

1.02 SUBMITTALS

A. Precast Items:

1. Provide cut sheets for wet well flat top slab and wet well conforming generally to standard ASTM C478 manholes. Slab shall be 10” thick and of suitable diameter to match the proposed wet well.

2. Provide other cut sheets for any other items listed in Section 1.01 that will be constructed as a precast item.

B. Quality assurance data:

1. Tests, or certificates of compliance with standards specified in this Section at least 14 days prior to commencing concrete placement for:

    a. Cement: From each car from which cement will be used.
    b. Fly ash: From each separate shipment from which fly ash is being used.
    c. Aggregates: For each size aggregate from each source of aggregate, for grading, deleterious substances and soundness.

2. List of admixtures, joint fillers, sealants, curing compounds, and other manufactured materials proposed identifying manufacturer and type. Provide data on specific items when requested by Engineer.

3. Testing laboratory reports required at least 14 days prior to commencing concrete placement for each class of concrete and each size aggregate:

    a. Proposed concrete design mix.

    b. Tests on concrete cylinders from trial batch of proposed mix.

4. Testing laboratory reports for tests on concrete cylinders taken in field.

1.03 QUALITY ASSURANCE

A. Contractor shall retain services of qualified independent testing laboratory.

B. Responsibility of testing laboratory will include:

1. Obtaining, making samples and trial batches and performing laboratory and field testing specified.

2. Provide reports to Engineer giving information on materials, concrete design mixes and testing performed.

3. Reports shall indicate whether or not materials meet specifications.

C. Perform Work in accordance with ACI 117 and 301.

D. Tests:

1. Establish proposed concrete design mix proportions on basis of either field experience and/or trial mixtures in accordance with ACI 318, Chapter 5, except specific requirements shall conform to requirement of these specifications. Determine and submit supporting data, standard deviation, trial batch tests, required average strength, proportions, air content, and slump range for each mix.

2. Concrete strength tests:

    a. Comply with ASTM C39 for testing and ASTM C31 or C192 for preparation of cylinders.

    b. Field tests: Sample in accordance with ASTM C172; make and test 3 cylinders from each sample on basis of not less

than one sample from each day's placement for each class of concrete.

c. Cylinders shall be laboratory cured. Test one laboratory cured cylinder at 7 days and other two at 28 days for average strength.

d. If tests indicate deficient strength as defined by ACI 318, immediately adjust mix to increase average of subsequent test results and, when directed, perform drilled core testing, ASTM C42. Testing and remedial work shall be at no additional cost to Owner.

3. Slump tests:

a. Test each batch as delivered; comply with ASTM C172 and C143.

b. If slump exceeds Specifications, promptly remove batch from Work and dispose of off-site at location selected by Contractor. Do not add water in excess of specified water-cement ratio to batch to achieve desired slump.

4. Air content tests:

a. Sample on basis specified above for field strength tests.

b. Obtain samples from concrete after it has been placed and consolidated.

d. Determine air content by pressure method; comply with ASTM C231.

c. If air content does not meet Specifications, remove deficient concrete from Work.

1.04 DELIVERY, STORAGE AND HANDLING

A. Cement: Keep clean, dry, and free from weather damage.

B. Aggregates: Stockpile each gradation separately on clean, noncontaminating surface.

PART 2 – PRODUCTS

2.01 WET WELL PRECAST CONCRETE FLAT TOP

A. The pump station wet well flat top shall be a new precast concrete flat top conforming to standard ASTM C478 manholes. Diameter shall be a suitable match for the diameter of the proposed wet well with an overcast diameter if necessary to accommodate new embedded hatch. New flat top shall have the access frame and hatch cast into the top and frame shall be flush with the top of the concrete.

2.02 WET WELL

A. The wet well base and riser shall conform to Standard ASTM C478 manholes. Base slab thickness shall be a minimum of 12” with a 12” flange extension. Minimum wall thickness of the barrel section shall be 8”. Outside surface shall be waterproofed with 2 coats of asphalt emulsion.

B. Bottom chamfer shall be poured on site and allowed to cure prior to placing into service.

2.03 CEMENT

A. Portland cement: ASTM C150, Type I.

B. High-early-strength Portland cement: ASTM C150, Type III. May be used instead of Type I cement at Contractor's option, unless specified otherwise, to achieve 28-day strength at 7 days. Do not use in concrete where least dimension of concrete section exceeds 3'-0" (900 mm).

C. White cement: Nonstaining, ASTM C150, Type I.

D. Use only one brand of each type of cement.

2.04 AGGREGATE

A. Regular aggregate: Strong, durable, well-graded minerals conforming to ASTM C33 requirements for grading, deleterious substances and soundness.

B. Aggregates not conforming exactly to above specifications may be used provided special tests or actual service establish that such aggregates will produce concrete of quality specified.

C. Coarse aggregate nominal size:

1. 1-1/2" to No. 4: Use for all concrete unless specified otherwise.

2. 3/4" to No. 4: Use for slabs and thin sections and areas where clear spacing between reinforcing bars is less than 3".

2.05 FLY ASH

A. Conform to ASTM C618.

B. Fly ash for total Project shall be obtained from single source.

C. Design concrete mixes to include fly ash in amount of approximately 15% to 20% of cement by weight.

D. May be used at Contractor's option for all concrete.

2.06 WATER

A. Clean, fresh, free from injurious amounts of oil, alkali, acid, salts, organic materials, or other substances that may be deleterious to concrete or steel. Mix water shall comply with ASTM C1602.

2.07 ADMIXTURES

A. Water-reducing and set-controlling admixture, ASTM C494, type as required. Use for all concrete.

B. Air entraining agent, ASTM C260. Use in accordance with manufacturer's recommendations.

2.08 REINIFORCING

A. Bars: ASTM A615, Grade 60 (420) deformed bars.

B. Bend bars cold to conform to required details.

C. Welded wire fabric: ASTM A185 plain wire in coiled rolls.

2.09 FORMS

A. Acceptable materials:

1. Douglas fir, exterior type, concrete form plywood, 5/8" thick minimum, conforming to DOC PS 1, Grade B-B, Class I or II.

2. Removable metal forms with surfaces equal to Douglas fir, exterior type, concrete form plywood.

3. Fiber tube forms: Cylindrical fiber reinforced forms.

B. Form ties: Type leaving no metal within 1" of finished surface after removal of forms.

C. Form coating:

1. Wood forms: Nonstaining mineral oil or commercially produced form-release agent that will not bond with, stain, or adversely affect concrete surfaces and curing, and will not impair bond or adhesion of subsequent treatment of concrete surfaces, "Nox-Crete Form Coating," by Nox-Crete Chemicals, or equal.

2. Metal forms: Treat surfaces as recommended by manufacturer before placing reinforcing.

3. Fiber tube forms: Treat surfaces as specified for wood forms or as recommended by manufacturer.

2.10 CURING MATERIALS

A. Liquid membrane-forming compound:

1. ASTM C309, Type 1 with fugitive dye, except Type 2 with white pigment for surfaces exposed to direct rays of sun.

2. Do not use compounds containing wax, oil, resin, varnish, or other bases that will prevent bonding of finishes such as floor coverings, tile, additional concrete, paint, and similar applied finishes.

3. Use for curing at Contractor's option except where other products are specified for particular application.

B. Plastic film:

1. Polyethylene plastic film, white, nonstaining, conforming to ASTM D2103.

2. Minimum 4-mil thickness.

3. Use for curing at Contractor's option except where other products are specified for particular application.

C. Absorptive mat:

1. Cotton fabric, burlap fabric, or burlap-polyethylene material woven or bonded to prevent separation.

2. Material shall be clean and nondetrimental to concrete or finish.

3. Use for curing at Contractor's option except where other products are specified for particular application.

2.11 GROUT

A. Regular grout:

1. One part Portland cement to three parts fine aggregate with sufficient water to maintain adequate workability. Substitute white cement for normal Portland cement to match color of adjacent concrete.

2. Minimum strength: 4,000 psi at 28 days.

3. Use for patching.

B. Nonshrink grout:

1. Nonmetallic and free of chloride, gypsum or corrosive-type materials; ASTM C1107, Grade A; formulation suitable for application.

2. Minimum strength: 5,000 psi at 28 days.

3. Use for grouting beneath baseplates.

2.12 CONCRETE DESIGN AND USE

A. Each concrete design mix shall be established in strict accordance with ACI 318 by proportioning on basis of either experience and/or trial mixtures.

B. Strength classifications:

1. Class A:

a. Compressive Strength (f'c) = 4,000 psi.

b. Required Average Compressive Strength (f'cr) = 5,200 psi.

C. Required average compressive strengths: Produce concrete of average strengths noted above unless test results substantiate a lower permissible average strength based on standard deviation criteria set forth in ACI 318. Strengths listed above are 7-day strengths for concrete using high-early-strength cement and 28-day strengths for concrete using other type cements.

D. Maximum water-cement ratio: 0.48% by weight. Where pozzolan fly ash is used, water-cement plus pozzolan ratio shall not exceed specified ratio.

E. Air entrainment: Concrete shall contain entrained air within following limits.

1. Nominal Maximum Size of Coarse Aggregate = ¾”

    a. Total Air Content, Percent By Volume = 4 – 8%

2. Nominal Maximum Size of Coarse Aggregate = 1-1/2”

    a. Total Air Content, Percent By Volume = 3 – 6%

F. Workability:

1. Proportions of concrete shall produce a mixture, suited to placement methods, which will work readily into corners and angles of forms and around reinforcement and embedded items. Segregation of materials or presence of free water will not be permitted.

2. Slump of concrete: Use minimum practical; vary within limits given to suit placement conditions; in no case is slump to be increased by addition of water in excess of design mix quantity:

    a. Type of Construction

        i. All concrete unless otherwise noted: Slump = 2 in Min, 5 in Max.

        ii. Building Columns: Slump = 3 in Min, 5 in Max.

G. Class A concrete: Use for all concrete unless specified otherwise.

2.13 READY MIX CONCRETE

A. Provide concrete from an established, approved ready-mix plant. Ready-mix plant equipment and facilities shall be certified in accordance with NRMCA QC-3.

B. Equipment and methods: Conform to ASTM C94.

2.14 PIPE CONNECTIONS

A. Provide resilient rubber connector complying with ASTM Standard C-923 for all pipe penetrations to existing and proposed concrete structures.

2.15 DROP CONNECTIONS

B. Provide concrete encasement and multi-pipe connection into structure per detail “Typical Drop Manhole Connection”.

PART 3 – EXECUTION

3.01 PREPARATION

A. Construct forms strong, straight, adequately braced and securely fastened.

B. Remove laitance from previously placed or existing concrete; thoroughly clean surface before placing additional concrete.

C. Apply form coating on formwork in accordance with manufacturer's instructions. Apply prior to placing reinforcing steel, anchoring devices, and embedded items.

3.02 PLACING CONCRETE

A. Clean transporting equipment, reinforcing, and embedded items before placing concrete. Remove water and debris from places to be occupied by concrete.

B. Place no concrete until forms, reinforcing, and embedded items have been verified as adequately supported and accurately placed. Place no concrete over water-covered, muddy, or frozen soil.

C. Immediately remove concrete where water, soils, or other deleterious substances are permitted to mix with concrete, form or embedded item movement occurs, or inadequate consolidation is obtained.

D. Hot weather concreting:

1. Applies to concrete placed when ambient temperature exceeds 90º F.

2. Conform to ACI 305R recommendations and requirements.

E. Cold weather concreting:

1. Applies to concrete placed when ambient temperature is below 40º F.

2. Conform to ACI 306R recommendations and requirements.

3. If temporary heating facilities used are of type which produce an atmospheric condition of high carbon dioxide content, seal off concrete in such manner that no damage will result to concrete surface.

F. Employ best industry practices to prevent segregation during placing. Do not drop concrete more than 5' (1500 mm). Use tremied or pumped concrete to provide proper placement. Place in layers approximately 18" (450 mm) deep.

G. Place concrete continuously in each section until completed. Permit not more than 30 minutes between depositing adjacent layers of concrete within each section, unless an acceptable set retarder is used in concrete mix.

H. Thoroughly compact, puddle, and vibrate concrete into corners and around reinforcing and embedded items. Use internal vibration where size of section permits.

I. Maintain concrete placing temperature between 50ºF and 90ºF except as specified for hot and cold weather concreting.

J. Place sections of concrete in sequence that eliminates shrinkage effects to greatest extent practicable.

K. Protect concrete from injury due to sun, cold weather, running water, construction operations, and other causes until properly cured.

3.03 REINFORCEMENT PLACEMENT

A. Remove scale, loose flaky rust, dirt, grease, curing compound, and other coatings that would impair bond.

B. Install slab-reinforcing bars in correct position by use of preformed bolsters and spacers, except concrete blocks may be used to position bars in concrete placed on grade. Concrete block shall have compressive strength equal to that of surrounding concrete.

C. Space bars properly, and tie securely in position before placing concrete. Tack welding to keep reinforcing in place is not permitted.

D. Lap wire fabric not less than 8".

E. Welding of reinforcing bars: Conform to AWS D1.4.

3.04 CONSTRUCTION JOINTS

A. Install only where shown or where specifically permitted.

B. Provide keyway 1-1/2" deep covering approximately 1/3 area of construction joint, unless shown otherwise.

D. A delay, until concrete is no longer plastic, shall occur after placing concrete for columns or walls before placing concrete for slabs, beams, or girders supported thereon.

C. Slabs-on-grade: Place concrete in continuous side-by-side strips. Saw-cut control joints as soon as practicable after concrete hardens. Allow initial shrinkage of concrete to take place (ideally 90-120 days) before applying sealant.

3.05 EMBEDDED ITEMS

A. Install items required under this contract to be embedded in concrete including structure steps at 16” centers. Install items required by others for embedding in concrete, if so instructed before placing concrete.

B. Fasten embedded items securely in proper position before placing concrete.

C. Conduit or pipe embedded in slabs or walls.

1. Locate in center of slab or wall and space not closer than 3 diameters on center; locate to avoid impairing strength of concrete.

2. Coordinate placing of reinforcing with conduit or pipe location. Do not cut reinforcing to clear conduit or pipe.

D. Valve Vault and Wet Well Ventilation Pipes

1. Final location shall be determined during the submittal process.

2. Pipes shall be 3” threaded galvanized steel with long radius 90º fitting for gooseneck downward turning outlet and stainless-steel insect screen 2-feet above finished grade. Sand, clean, and apply primer and topcoat of rust prevention black paint.

E. Aluminum pipe shall not be embedded in concrete. Where aluminum projects into or rests against surface of concrete, coat surfaces of aluminum to prevent direct contact with concrete.

F. Pipe Connections

1. Connect pipes to existing structures per plan details “Pipe Connection to Structure Detail” and “Manhole Connection Detail”.

3.06 GROUTING

A. Roughen concrete surfaces by light chipping to remove laitance to approximately 1/2". Do not expose reinforcing steel.

B. Remove materials which might interfere with bond; prepare surfaces in strict conformance to manufacturer's instructions.

C. Mix, place, and cure grout in strict accordance to manufacturer's instructions.

D. Remove shims after grout is placed. Fill shim voids with grout.

3.07 FINISHING

A. Flatwork:

1. Tamp concrete to force coarse aggregate down from surface.

2. Screed with straightedge, eliminate high and low places, bring surface to required finish elevations; slope uniformly to drains.

3. Dusting of surface with dry cement or sand during finishing operations is not permitted.

4. Apply curing compounds and similar materials in accordance with manufacturer's instructions during or after finishing.

5. Finish surfaces within following tolerances as measured with a 10' straightedge:

    a. Slabs: 3/16".

    b. Top surfaces of structures other than slabs: In accordance with ACI 117.

6. Float finish:

    a. Float surface to true, even plane.

    b. Float second time to uniform finish with wood or cork float; use edger on exposed edges.

B. Formed surfaces:

1. Remove fins, projections, and loose material.

2. Clean surfaces of form oil.

3. Patch honeycomb, aggregate pockets, voids, and holes as follows:

a. Chip out until sound concrete is exposed to minimum depth of 1".

b. Prepare patching mortar with approximately 2 parts normal portland cement, one part white cement, 9 parts fine aggregate; vary proportions of cement as necessary to match color of adjacent concrete.

c. Saturate surfaces with water and fill cavities with patching mortar.

3. Fill holes left by form ties with patching mortar.

4. Cure patches as specified for concrete.

3.08 FORM REMOVAL

A. Minimum time before removal after placing concrete, unless permitted otherwise:

1. Footings: 24 hours.

2. Walls, piers, and columns: 48 hours (24 hours for metal-lined forms).

3. Self-supported beams and slabs: 14 days.

4. Time specified above represents cumulative time during which temperature of concrete is maintained above 50ºF and for concrete without set-controlling admixtures.

B. Reduce removal time by half for high-early-strength cement concrete.

C. In any event, do not remove supporting forms and shoring until concrete has acquired sufficient strength to safely support own weight plus construction loads.

D. Take care when removing forms that concrete is not marred or gouged and that corners are true, sharp and unbroken.

3.09 CURING

A. Cure all concrete; begin curing as soon as possible after placement of concrete.

B. Use of liquid membrane-forming curing compound permitted for all concrete except where product would impair bond of other applied materials to surface or where other method of curing is specified for particular use.

C. Plastic film curing:

1. Dampen surface of concrete and lay plastic film with minimum 6" side laps and free of wrinkles; tape side laps.

2. Hold film in place with lumber or use similar provisions to prevent exposure of concrete for 7 days after placing.

3. Immediately repair tears in film.

D. Water curing:

1. Keep concrete continuously wet for seven days after placing.

2. Use on concrete surfaces not receiving compound or plastic film curing.

3. Clean, nonstaining absorptive mat may be used with water curing.

4. Do not use for curing cold weather concrete.

3.10 MANHOLE TESTING

A. All manholes shall be inspected and leakage tested in accordance with ASTM C1244-93 or C969-94. This work shall be included in the price of the manhole.

PART 4 – MEASUREMENT AND PAYMENT

4.01 MEASUREMENT:

A. Measurement will not be made for the WET WELL TOP SLAB, WET WELL, METER / VALVE / BYPASS VAULT, CONCRETE TRAFFIC BOX ENCLOSURE PAD or CONCRETE GENERATOR PAD.

4.02 PAYMENT

A. Payment for the Work specified in this Section will be made at the lump sum prices for:

1. WET WELL TOP SLAB

a. Includes all work in this specification as well as the spring assist access hatches specified in Section 08 10 00.

2. WET WELL

a. Includes all work in this specification as well as pouring of concrete fillets in wet well bottom, 12” of CA-6 compacted

stone base course as shown on the plans, pipe connections, and drop connection.

3. METER / VALVE / BYPASS VAULT

    a. Includes all work in this specification as well as the spring assist access hatches and bypass connection specified in Section 08 10 00, the filling of the bottom 1' of the vault with Class A Concrete, 12" of CA-6 compacted stone base course as shown on the plans, and pipe connections.

4. CONCRETE TRAFFIC BOX ENCLOSURE PAD

    a. Includes all work in this specification as well as earthwork and 12" of CA-6 compacted stone base course as shown on the plans.

5. CONCRETE GENERATOR PAD

    a. Includes all work in this specification as well as earthwork and 18" of CA-6 compacted stone base course as shown on the plans.

--- END OF SECTION ---

ACCESS HATCHES
SECTION 08 10 10

PART 1 – GENERAL

1.01 SUMMARY

A. This Section specifies factory fabricated aluminum access hatches for the Cambridge on the Lake Lift Station.

1.02 SUBMITTALS

A. Provide submittals in accordance with Section 01 33 00.

B. Product technical data: Manufacturer's data.

C. Shop Drawings: Include profiles, accessories, location, and dimensions.

PART 2 - PRODUCTS

2.01 MAINTENANCE ACCESS HATCHES

A. Acceptable Manufacturers

1. EJ
2. U.S.F Fabrication
3. Or approved equal.

B. PERFORMANCE REQUIREMENTS – REGENCY COURT LIFT STATION

1. Wet well vault shall be double leaf. Valve and meter vaults shall be double leaf. Sizes shall be as indicated in the Drawings.

   a) Hatches shall be lockable to prevent outside entry.

   b) Wet well hatch shall have odor gaskets and debris gaskets.

   c) Vault hatch does not require the odor gaskets or debris gaskets.

2. Performance characteristics:

   a) Units designed 300 pounds per square foot, pedestrian loading.

b) Operation shall be smooth and easy with controlled operation throughout the entire arc of opening and closing.

c) Operation shall not be affected by temperature.

d) Entire access hatch, including all hardware components, shall be corrosion resistant.

3. Cover: Minimum 1/4-inch thick 5086 aluminum diamond pattern.

4. Frame:

a) Material shall be 6061-T6 Aluminum with a continuous 1-1/4" anchor flange.

b) Dovetail groove shall be extruded into the seat of the frame for a 1/8" silicone gasket.

5. Hinges:

a) Hinges shall be of heavy duty design. Material shall be Grade 316 Stainless steel. Each hinge shall have a grade 316 stainless steel 3/8" diameter hinge pin.

b) Hinge shall be fastened to the channel frame and diamond plate with Grade 316 stainless steel bolts and NY-Lock Nuts.

6. Fall Protection:

a) Wet Well:

i. The access opening shall have a permanently installed fall through protection grate system that provides continuous safety assurance in both its closed and open position. Single or double grate system shall be aluminum with an OSHA safety orange finish. Grates shall smoothly pivot on hinges 90 degrees upward and lock into place by hold open rods.

b) Valve Vault: Shall not require fall protection.

7. Gaskets:

c) Debris gasket: continuous EPDM gasket mechanically fastened to the perimeter of the frame to reduce the amount of dirt and debris that enters the frame.

8. Lifting mechanisms:

    a) Unit shall be supplied with a heavy-duty pneumatic spring, for ease of operation when opening safety grate. Grate shall be counterbalanced, so one person can easily open the safety grate.

9. Hardware:

    a) Each hatch shall be equipped with a stainless steel hold open arm. Door shall lock open in the 90-degree position. Hold open arm shall be fastened to the frame with a ½" grade 316 stainless steel bolt.

    b) Each hatch shall be supplied with a stainless steel slam lock, with the key way protected by a threaded aluminum plug. The plug shall be flush with the top of the ¼" diamond plate. The slam lock shall be fastened with Grade 316 stainless steel bolts and washers.

    c) Each hatch shall be equipped with a recessed padlock clip (padlock provided by others).

    d) Each hatch shall be equipped with a stainless steel lift handle. Lift handle shall be flush with top of ¼" diamond plate.

    e) Each hatch shall be supplied with a 1-1/2" threaded drain coupler on the underside of channel frame, for pipe connection.

10. Finishes:

    a) Factory finish: mill finish aluminum

    b) Bituminous coating: apply to the exterior of the frame.

11. Hatch doors shall mount flush to the frame when in the closed and locked position.

12. Locks shall be provided for all hatches and shall be keyed alike. Four (4) sets of keys shall be provided. Locks provided shall be of the hasp type and keyed alike to the Village's existing code.

13. Signage shall be provided and securely fastened to the interior side of the access hatch advising that proper ventilation must be provided prior to entering; and that the area is considered to be a "confined space" and as such proper precautions must be taken prior to entry. Signage shall be of a corrosion resistant material and shall be held in place by stainless steel fasteners. Signage shall be positioned such

that when the hatch is opened the sign shall be in full view and easily legible.

PART 3 - EXECUTION

3.01 INSTALLATION

A. Comply with the construction documents, shop drawings, and manufacturer's installation instructions.

PART 4 – MEASUREMENT AND PAYMENT

Work specified in this Section for Regency Court Lift Station will not be measured or paid for as a separate item. Access hatch for the wet well shall be included in SUBMERSIBLE SOLIDS HANDLING PUMPS AND APPURTENANCES as described in Section 22 13 29. Access hatches for the valve vault, including the bypass coupling connection and access hatch, shall be included in METER / VALVE / BYPASS VAULT as described in Section 03 00 00.

--- END OF SECTION ---

PROCESS PIPING AND APPURTENANCES
SECTION 22 13 13

PART 1 - GENERAL

1.1 DESCRIPTION:

A. Provide and test process pipe, fittings, and appurtenances as indicated and specified, between the pumps and the force-main. The force-main shall be defined as buried main commencing after the meter vault downstream wall.

1.2 RELATED WORK:

A. Section 33 05 19: Ductile-Iron Pipe and Fittings

B. Section 22 13 29: Submersible Solids Handling Pumps and Appurtenances

C. Section 22 13 19: Process Valves and Appurtenances

1.3 REFERENCES:

A. American Welding Society: AWS B3.0

B. Manufacturer's Standardization Society: MSS SP-69

C. American Society for Testing and Materials:

1. ASTM A216: Standard Specification for Steel Castings, Carbon, Suitable for Fusion Welding, for High Temperature Service

2. ASTM A307: Standard Specification for Carbon Steel Externally Threaded Standard Fasteners

3. ASTM D1330: Standard Specification for Rubber-Sheet Gaskets

D. American National Standards Institute:

1. ANSI B16.1: AN Standard for Cast Iron Pipe Flanges and Flanged Fittings, Class 25, 125, 250 and 800

E. Fluid Sealing Association - Technical Handbook.

1.4 SUBMITTALS:

A. Submit the following in accordance with Section 01 33 00:

1. Submit manufacturer's certificates of conformance.

2. Submit certified copies of test reports.

3. Piping layouts in full detail.

4. Location of pipe hangers and supports.

5. Location and type of backup block or device to prevent joint separation.

6. Large scale details of wall penetrations and fabricated fittings.

7. Schedules of all pipe, fittings, special castings, flexible connectors, adapters, couplings, expansion joints, and other appurtenances.

8. Reports as required for welding certifications per ANSI B31.1 Paragraph 127.6.

9. Catalog cuts of joints, couplings, harnesses, expansion joints, gaskets, fasteners and other accessories.

10. Brochures and technical data on coatings and linings and proposed method for application and repair.

11. Manufacturer's descriptive literature and technical data on insulation and proposed method of installation.

12. Shop drawing data for accessory items.

13. Manufacturer’s literature as needed to supplement certified data.

14. Operating and maintenance instructions and parts lists.

15. Schematic control and power wiring diagrams.

16. Shop and Field inspections reports.

17. List of recommended spare parts other than those specified.

18. Recommendations for short and long term storage.

19. Special tools.

20. Shop and field testing procedures and equipment to be used.

21. Provide a listing of the materials recommended for each service specified and indicated. Provide documentation showing compatibility with process fluid and service specified and as indicated.

22. The most recent ISO 9000 series certification or quality system plan.

23. Material Certification:

a. Provide certification from the equipment manufacturer that the materials of construction specified are recommended and suitable for the service conditions specified and as indicated. If materials other than those specified are proposed based on incompatibility with the service conditions, provide technical data and certification that the proposed materials are recommended and suitable for the service conditions specified. And indicated including an installation list of a minimum of five (5) installations in operation for a minimum of five (5) years. Provide proposed materials at no additional cost to the Authority.

b. Where materials are not specified, provide technical data and certification that the proposed materials are recommended and suitable for the service conditions specified and indicated.

B. A copy of the contract mechanical process, electrical, and instrumentation drawings, with addenda that are applicable to the equipment specified in this section, marked to show all changes necessary for the equipment proposed for this specification section. If no changes are required, mark all drawings with "No changes required".

1. Failure to include all drawings applicable to the equipment specified in this section will result in submittal return without review.

C. A copy of this specification section with addenda and all referenced specification sections with addenda, with each paragraph check-marked to indicate specification compliance or marked to indicate requested deviations and clarifications from the specified requirements.

1. If deviations and clarifications from the specifications are indicated, therefore requested by the Contractor, provide a detailed written justification for each deviation and clarification.

2. Failure to include a copy of the marked-up specification sections and or the detailed justifications for any requested deviation or clarification will result in submittal return without review until marked up specification and justification are resubmitted with the entire package.

1.5 QUALITY ASSURANCE:

A. Provide in accordance with Section 01 43 00 and as specified.

B. Replace all materials contaminated with gasoline, lubricating oil, liquid or gaseous

fuel, aromatic compounds, paint solvent, paint thinner, and acid solder at no additional cost to the Owner.

C. Coordinate dimensions and drilling of flanges with flanges for valves, pumps and other equipment to be installed in piping systems. Bolt holes in flanges to straddle vertical centerline.

D. Qualification for Pipe Support Structural Attachment Welders: Provide certification that welders to be employed in work have satisfactorily passed AWS qualification tests. If recertification of welders is required, retesting is the Contractor's responsibility at no additional cost to the Owner.

E. Protect piping from dirt, dust, oil, grease, and other foreign matter during installation to prevent debris from being left in piping.

1.6 DELIVERY, STORAGE AND HANDLING:

A. Provide in accordance with Section 01 60 00 and as specified.

B. Shipping:

1. Ship equipment, material and spare parts complete except where partial disassembly is required by transportation regulations or for protection of components.

2. Pack spare parts in containers bearing labels clearly designating contents and pieces of equipment for which intended.

3. The Contractor shall obtain spare parts from the manufacturer at the same time as pertaining equipment. The Contractor shall maintain possession of spare parts until Substantial Completion at which time, all spare parts shall be turned over to the Owner.

C. Receiving:

1. Inspect and inventory items upon delivery to site.

2. Store and safeguard equipment, material and spare parts in accordance with manufacturer's written recommendations and instructions.

PART 2 - PRODUCTS

2.1 DUCTILE IRON PIPE AND FITTINGS:

A. Provide in accordance with Section 33 05 19.

2.2 PRESSURE AND FLOW INSTRUMENTATION:

A. Provide in accordance with Section 33 09 01 and 33 09 30.

2.3 BYPASS COUPLING SYSTEM:

A. Acceptable Manufacturers

1. Precision Systems without exception.

B. Description

1. Bypass coupling connection and hatch shall include a 6” Camlock fitting manufactured for an NPT connection to valve vault riser pipe. Camlock fitting shall be integral to a rectangular stainless steel and aluminum assembly for casting in valve vault lid. Hatch shall be aluminum checkplate, with lockable lid and waterproof lock.

2.4 PIPE SUPPORTS:

A. Saddle Stands: Used adjustable saddle stands.

1. Provide each stand with a length of steel pipe fitted at the base with standard threaded cast-iron flange or steel base plat and at the top with an adjustable saddle or roll. Bolt the base flange or plate to the floor, foundation or concrete base.

2. Use stanchions of construction similar to the saddle stand, except fit them at the top with cast-iron pipe saddle supports or with pipe stanchion saddles with yokes and nuts.

2.5 COUPLINGS-SLEEVE TYPE:

B. Manufacturers:

1. Romac

2. Smith Blair

3. Viking Johnson

4. Dresser

5. Or acceptable equivalent product.

C. Provide couplings meeting AWWA C219

D. Couplings 12-in and smaller:

1. End rings and center rings: ASTM A536 ductile iron, fusion bonded epoxy coated

2. Gaskets: Buna-N, NSF 61 approved

3. Hardware: Type 316 stainless steel

E. Bridles and tierods: Minimum ¾-in diameter, except where tierods replace flange bolts of smaller size, in which case fit with nut on each side of pair of flanges.

1. Provide as indicated

2.7 CONCRETE WALL SLEEVES:

A. Materials:

1. Wall Sleeves Between Dry Area or Between Dry Area and Ground

a. Flexible boots meeting ASTM C923 Clamp-On Type or “A-Lock” Type. Clamp to pipe using minimum of 2 stainless steel clamps.

B. Hardware: Type 316 stainless steel.

2.8 STEEL WALL SLEEVES:

A. Weld patch plate and pipe sleeve (Rotex RS Seal or approved equal) to steel wall to accommodate new pipe penetration alignment, or submit alternative method for gas tight penetration for piping between wet well and valve vault.

PART 3 – EXECUTION

3.1 INSTALLATION:

A. Install items in accordance with manufacturer's printed instructions and as indicated and specified.

B. Ensure interior lines parallel to building walls wherever possible. Install piping to accurate lines and grades, and support. Provide pipe supports as specified under Part 2.3 of this section. Where temporary supports are used, ensure rigidity, to prevent shifting or distortion of pipe. Provide for expansion.

C. Before assembly, remove all dirt and chips from inside pipe and fittings.

D. Use dielectric bushings or unions when ferrous pipes join nonferrous pipes carrying liquid either underground or elsewhere.

E. Welding in accordance with AN Standard B31 and AWS B3.0.

3.2 CONCRETE WALL SLEEVE SEALS:

A. Pack annular spaces with extrudible preformed plastic gasket material to prevent debris from entering space between pipe and flexible boot.

3.3 TEMPORARY PLUGS:

A. Close open ends of pipe with temporary plugs or caps when pipe installation is not in progress. Use watertight plugs for exterior, buried piping and if water or debris is in trench when work is resumed, do not remove until adequate provision has been made to prevent any water or debris entering pipe even if it necessitates dewatering trench.

3.4 TESTING:

A. Process piping shall undergo pressure and leakage testing in accordance with Part 3.5 of Section 33 05 19.

3.5 TOUCH-UP FIELD PAINTING:

A. Repair or replace damaged or defective coating areas.

B. Remove damaged or defective coatings by sand-blast cleaning in accordance with SSPC-SP-6, Commercial Grade, immediately prior to priming.

C. Before priming, provide surfaces dry and free of dust, oil, grease and other foreign material.

D. Apply approved coating in accordance with valve manufacturer's printed recommendations.

E. When small areas of coating need touch up, surface preparation may be done with suitable power needle gun to match specified blast cleaning.

3.6 CONTRACT CLOSEOUT:

A. Provide in accordance with Section 01 77 00.

PART 4 – MEASUREMENT AND PAYMENT

4.01 MEASUREMENT:

A. Measurement will not be made for the Work specified in this Section.

4.02 PAYMENT

A. Payment for the Work specified in this Section will be made at the lump sum prices for PROCESS PIPING AND APPURTENANCES.

1. Price shall exclude the flow meter, which is included in the cost of FLOW METER per Section 33 09 01.

--- END OF SECTION ---

PROCESS VALVES AND APPURTENANCES
SECTION 22 13 19

PART 1 - GENERAL

1.1 DESCRIPTION:

A. Provide and test valves and appurtenances as indicated and specified.

1. Provide sizes and capacities as indicated or specified.

1.2 RELATED WORK:

A. Section 22 13 13: Process Piping and Appurtenances

B. Section 33 05 19: Ductile Iron Pipe and Fittings

1.3 REFERENCES:

A. American Society for Testing and Materials (ASTM):

1. ASTM A48: Specification for Gray Iron Castings.

2. ASTM A126: Standard Specification for Gray Iron Castings for Valves, Flanges and Pipe Fittings.

3. ASTM A536: Specification for Ductile-Iron Castings.

B. American National Standards Institute (ANSI):

1. ANSI B2.4: Hose Coupling Screw Threads.

2. ANSI B16.1: Cast-Iron Pipe Flanges and Flanged Fittings, Class 25, 125, 250, and 800.

3. ANSI B16.4: Cast-Iron Threaded Fittings, Class 125 and 250.

4. ANSI B16.10: Face-to-Face and End-to-End Dimensions of Ferrous Valves.

1.4 SUBMITTALS:

A. Shop Drawings: Submit the following in accordance with Section 01 33 00 - SUBMITTALS:

1. Certified shop and erection drawings.

a. Electronic files shall conform to the following minimum requirements:

(1) Electronic Files: AutoCad R2010 or higher, drawn to scale.

(2) Submit electronic files as part of the Shop Drawing submittal.

(3) Submit electronic files on CD or DVD

(4) Drawings shall include plan views, sectional views, title block, Tag Numbers, serial numbers, Parts List (identifying each component), dimensions, connection sizes and types and all details of all related items. In cases where certain information is proprietary and is omitted, provided a statement indicating that the information is proprietary and is being omitted.

b. Drawings shall be in conformance with all other requirements as specified in this specification.

2. Data, regarding valve characteristics and performance.

3. Shop drawing data for accessory items.

4. Manufacturer's literature as needed to supplement certified data.

5. Operating and maintenance instructions and parts lists.

6. Listing of reference installations as specified with contact names and telephone numbers.

7. Valve shop test results.

8. Qualifications of field service technician.

9. Shop and Field inspections reports.

10. List of recommended spare parts other than those specified.

11. Recommendations for short and long term storage.

12. Special tools.

13. Shop and field testing procedures and equipment to be used.

14. Number of service technician days provided and per diem field service rate.

15. Manufacturer’s product data and specifications for shop painting.

16. Provide layout drawing showing orientation of plug, gate, check and ball valves and actuator and nearest obstruction.

17. Manufacturer's product data and specifications for shop painting.

18. Provide a listing of the materials recommended for each service specified and indicated. Provide documentation showing compatibility with process fluid and service specified and indicated.

19. The most recent ISO 9000 series certification or quality system plan.

20. Material Certification:

    a. Provide certification from the equipment manufacturer that the materials of construction specified are recommended and suitable for the service conditions specified and indicated. If materials other than those specified are proposed based on incompatibility with the service conditions, provide technical data and certification that the proposed materials are recommended and suitable for the service conditions specified and indicated including an installation list of a minimum of five (5) installations in operation for a minimum of five (5) years. Provide proposed materials at no additional cost to the Owner.

    b. Where materials are not specified, provide technical data and certification that the proposed materials are recommended and suitable for the service conditions specified and indicated.

B. A copy of this specification section with addenda and all referenced specification sections with addenda, with each paragraph check-marked to indicate specification compliance or marked to indicate requested deviations and clarifications from the specified requirements.

    1. If deviations and clarifications from the specifications are indicated, therefore requested by the Contractor, provide a detailed written justification for each deviation and clarification.

    2. Failure to include a copy of the marked-up specification sections and or the detailed justifications for any requested deviation or clarification will result in submittal return without review until marked up specification and justification are resubmitted with the entire package.

1.5 QUALITY ASSURANCE:

A. Provide in accordance with Section 01 43 00 and as specified herein.

B. Provide enclosures for atmospheres specified and indicated.

C. Contractor responsible for verifying outside diameter of pipe to be tapped.

1.6 DELIVERY, STORAGE AND HANDLING:

A. Provide in accordance with Section 01 60 00 and as specified herein.

B. Shipping:

1. Ship equipment, material and spare parts complete except where partial disassembly is required by transportation regulations or for protection of components.

2. Pack spare parts in containers bearing labels clearly designating contents and pieces of equipment for which intended.

3. The Contractor shall obtain spare parts from the manufacturer at the same time as pertaining equipment. The Contractor shall maintain possession of spare parts until Substantial Completion, at which time all spare parts shall be turned over to the Owner.

C. Receiving:

1. Inspect and inventory items upon delivery to site.

2. Store and safeguard equipment, material and spare parts in accordance with manufacturers written instructions.

PART 2 - PRODUCTS

2.1 ECCENTRIC PLUG VALVES:

D. Manufacturers:

1. Mueller

2. DeZurik.

3. Or approved equal.

E. Type: Non-lubricated, eccentric.

F. Body Working Pressure:

1. Cast Iron, ASTM A126 Class B or Ductile Iron, ASTM A536, Grade 64-45-12.

a. Valves 4-in. through 12-in: 175 psi.

G. Ends:

1. Grooved: ANSI/AWWA C606 for ductile iron valves.

2. Flanged: ANSI B16.1 125-lb for cast iron valves.

3. Flanged: B16.5 150-lb for carbon steel and stainless steel valves.

4. Buried Valves: Mechanical joint.

H. Valve Ports:

1. Provide rectangular or circular except for pigging services.

2. Valves 20-in and smaller: Not less than 80 percent of pipe area.

F. Valve Seats:

1. Coat plug with seat material or hold by means of Type 316 stainless steel seat ring and attach to the valve with self-locking Type 316 stainless steel screws.

a. Seat Material:

(1) Neoprene or Buna-N synthetic rubber.

2. Provide valves with coated plugs with mating seats of 90 percent, minimum, pure nickel welded into the body of valves.

3. Provide valves with seats clamped to valve with mating seat of 90 percent, minimum, pure nickel welded to the valve body.

G. Upper and Lower Plug Journal Bearings:

1. Removable, permanently lubricated stainless steel bushings for valves 20-in and smaller.

2. Provide grit seals for upper and lower plug shafts for all valves.

H. Stem Seals:

1. Adjustable multiple V-packing or multiple point contact rubber rings.

2. Replaceable without valve disassembly.

3. Provide valves with two sets of packing rated for vacuum service for all pump suction isolation service and for services where a vacuum is specified and indicated.

I. Operators for Valves 4-in and larger:

1. Manual Operators:

a. Gear shall be operated with handwheels or nuts as shown on plans.

b. Operators shall be mounted as shown on the plans.

c. Provide gear operators rated for bi-directional shutoff at the valve working pressure rating as specified herein.

d. Gear operators: Totally enclosed worm gear, traveling nut type is not acceptable. Provide permanently lubrication, watertight and dustproof, with adjustable open and closed stops and plug position indicator.

e. Provide all work gears designed and certified to withstand input loads up to 300-ft-lbs minimum at the stops without damage.

f. Where indicated provide Type 316 stainless steel stem extension to operating floor elevation as indicated and provide the bevel gear operator with a fabricated steel floorstand and handwheel.

J. Shop Testing:

1. Provide all plug valves tested and certified bubble tight in both directions at the full rated working pressure as specified herein.

K. Shop Painting:

1. Provide fusion bonded epoxy, 12 mils inside and out.

2. For valves installed in glass lined and ceramic epoxy lined piping systems, provide glass lined valves with epoxy paint coating as specified herein.

2.2 RUBBER FLAPPER CHECK VALVES:

A. Manufacturers:

1. Mueller

2. DeZurik

3. APCO

4. Val-Matic

5. Or approved equal.

B. Materials:

1. Body and Cover: Ductile Iron ASTM A536 Grade 65-42-12

2. Removable Body Seat: ASTM A276, Type 304 stainless steel

3. Rubber Flapper: Buna N 70 Durometer ASTM 2000-BG encapsulating an ASTM A36 steel plate.

4. Hinge Pin: AISI 1018

C. Provide valves with a full pipe size flow area.

D. Provide valves 4-in and larger capable of passing a 3 inch sphere.

E. Provide a threaded connection with bronze plug on cover and on the bottom of the valve

F. Working Pressure:

1. 2-in thru 24-in: 250 psi

G. Ends: Flanged ANSI B16.1, 150-lb

H. Provide seating surface at a 45 degree angle such that the flapper travels a maximum of 35 degrees from full closed to full open position.

I. Provide valve with cover designed for removal of the valve internals without removing the valve from the pipeline.

J. External Backflow Device: Valve shall include a bottom mounted screw type external backflow actuator to manually open disc.

K. Position Indicator:

1. Provide a mechanical indicator to provide disc position for valves 4-in and larger.

2. Provide the indication with continuous contact with the disc

L. Limit Switch: A pre-wired limit switch shall be provided to indicate open/closed position to a remote location. The mechanical type limit switch shall be activated by the external arm and rated for NEMA 4 and shall have U.L. rated 5 amp, 125 VAC contacts.

2.3 BALL VALVES – GENERAL SERVICE:

A. Manufacturers:

1. Jamesbury

2. KF

3. Inline

4. Kitz

5. Or acceptable equivalent product.

B. Valves ½-in thru 4-in

1. Materials:

a. Body and End Cap: Three piece, ASTM A351 Grade CF8M.

b. Body Seal: PTFE.

c. Seat: RTFE.

d. Ball: Type 316 stainless steel.

e. Stem: Type 316 stainless steel.

2. Pressure Rating:

a. ½-in thru 2-in: 1000 psi at 100 deg F

3. Ends:

a. 2-in and Smaller: Screwed or flanged.

C. Actuators:

1. Manual: Provide lever operator

2.4 PAINTING:

A. Coat internal and external ferrous surfaces of valve with NSF Certified Epoxy in accordance with ANSI/NSF Std. 61, and in conformance to AWWA D102 Inside System No. 1 for all valves not specified to have a fusion bonded epoxy coating.

PART 3 - EXECUTION

3.1 GENERAL:

A. Prior to installation, protect stored valves and appurtenances from damage due to exposure to sunlight, heat, dirt, debris, freezing and thawing, vandalism, etc.

B. Clean all debris, dirt, gravel, etc, from inside of piping before placing valves in place.

C. Erect and support valves in respective positions free from distortion and strain on appurtenances during handling and installation. Inspect material for defects in workmanship and material. Clean out debris and foreign material from valve openings and seats, test operating mechanisms to check functioning, and check nuts and bolts for tightness. Repair, valves and other equipment which do not operate easily or are otherwise defective at no additional cost to the Owner.

D. Set plumb and support valves in conformance with instructions of manufacturer. Shim valves mounted on face of concrete vertically and grout in place. Install valves in control piping for access.

E. Provide bolted split sleeve coupling or flexible type grooved coupling on downstream side of buried valves to assist in valve removal.

3.2 CHECK VALVES:

A. Install swing check valves horizontally in pipelines.

3.3 PLUG VALVES:

A. Install valves in horizontal piping with shaft horizontal such that in open position, plug is located in upper part of valve body. Orient valves so that in closed position, flow is against the face of the plug.

3.4 VALVE BOXES:

A. Provide valve box for each buried valve and where indicated.

B. Set box so top is flush with finished surface and so box does not bear on valve, or pipe.

3.5 TOUCH-UP FIELD PAINTING:

A. Repair or replace damaged or defective coating areas.

B. Remove damaged or defective coatings by sand-blast cleaning in accordance with SSPC-SP-6, Commercial Grade, immediately prior to priming.

C. Before priming, provide surfaces dry and free of dust, oil, grease and other foreign material.

D. Apply approved coating in accordance with valve manufacturer's printed recommendations.

E. When small areas of coating need touch up, surface preparation may be done with suitable power needle gun to match specified blast cleaning.

PART 4 – MEASUREMENT AND PAYMENT

4.1 MEASUREMENT

A. Measurement will not be made for the Work specified in this Section.

4.2 PAYMENT

A. Payment for the Work specified in this Section will be made at the lump sum price for PROCESS VALVES AND APPURTENANCES.

--- END OF SECTION ---

SUBMERSIBLE SOLIDS HANDLING PUMPS AND APPURTENANCES
SECTION 22 13 29

PART 1 – GENERAL

1.1 DESCRIPTION

A. Supply, test, and place into operation quantity (2) submersible pumps, guide rail assemblies, lifting chains, and sensor monitors as indicated and in compliance with the Contract Documents.

B. Supply (1) spare pump of the same model and cable length and deliver to the Village.

C. Supply wet well access frame and hatch.

1.2 RELATED WORK

A. Section 08 10 00: Access Hatches.

B. Section 33 09 30: Wastewater Pumping Control System.

1.3 REFERENCES

A. Current Specifications and Standards:
1. American National Standards Institute (ANSI)

2. American Society for Testing and Materials (ASTM)

3. National Electrical Manufacturers Associations (NEMA)

4. American Bearing Manufacturers Association (AFBMA)

5. Hydraulic Institute (HI)

6. International Standards Organization(ISO) - ISO9001

7. National Electric Code(NEC)

8. Factory Mutual (FM)

9. National Fire Protection Agency (NFPA)

1.4 ACTION SUBMITTALS

A. Certification of Coordination:

1. A certification shall be provided stating that the pumps will fit through the submitted access hatch clear opening.

B. Product Data:

1. Manufacturer's literature, illustrations, specifications, engineering data, fabrication, assembly, installation and wiring diagrams.

2. Manufacturer's warranty.

C. Shop Drawings: Show arrangement, dimensions, and materials including guide rails and accessories.

D. Test and evaluation reports:

1. Characteristic performance curves for pumps, showing total dynamic head, efficiency, and brake horsepower plotted against capacity in gpm for conditions of head and capacity with required impeller.

2. Motor test data and shop test results.

3. Certified shop test curves.

E. Submit copy of this Section with addenda and referenced sections with addenda, with each paragraph check-marked to indicate specification compliance or marked to indicate requested deviations and clarifications from specified requirements.

1. If deviations and clarifications from Specifications are indicated and requested by Contractor, provide detailed written justification for each deviation and clarification.

2. Failure to include copy of marked-up specification sections and or detailed justifications for requested deviation or clarification will result in rejection of submittal with no further review and consideration.

1.5 CLOSEOUT SUBMITTALS

A. Operation and maintenance manuals:

1. Operation manuals:

a. Detail step-by-step procedures required for system startup, operation, and

shutdown.

b. Include manufacturer's name, model number, parts list, and brief description of equipment and basic operating features.

2. Maintenance manuals:

a. List routine maintenance procedures, possible breakdowns and repairs, and troubleshooting guides.

b. Include piping and equipment layout and simplified wiring and control diagrams of system as installed.

3. Comply with requirements of Section 01 77 00.

1.6 QUALITY ASSURANCE

A. Manufacturer's qualifications:

1. Pumps shall be product of single manufacturer.

2. Manufacturer shall have 5 years' experience producing substantially similar equipment and evidence of at least 5 installations in satisfactory operation for at least 5 years.

B. Regulatory requirements: Comply with applicable provisions and recommendations of NFPA 70 including Village of Arlington Heights amendments, IEEE, ANSI, NEMA except as otherwise shown or specified.

1.7 WARRANTY

A. The pump manufacturer shall warrant the pump, motor, and all other components to the Owner against defects in workmanship and materials for a period of 12 months (1 year) from date of the start-up date and first beneficial use. The manufacturer's warranty shall be in published form, and shall apply to all similar units. A copy of the warranty shall be provided to the Owner at startup.

1.8 MAINTENANCE MATERIALS

A. Spare parts:

1. 1 spare pump for Village storage, of same make, model, and cable length as installed pumps.

2. Each pump shall be furnished with a manufacturers repair kit that shall include as a minimum, one set of mechanical seals for each pump.

3. Pack spare parts in sturdy containers with clear indelible identification markings.

4. Store in a dry, warm location until transferred to Owner at conclusion of Project.

5. Comply with requirements of Section 01 77 00.

PART 2 – PRODUCTS

2.1 MANUFACTURERS

A. Model XFP 80C CB1 as manufactured by Sulzer ABS, without exception.

B. Pumps shall be capable of handling unscreened sewage, wastewater, or storm water in accordance with the design conditions defined in this specification.

2.1 SYSTEM REQUIREMENTS

A. Pumping units shall consist of submersible pumps and motors, guide rails, lifting chains, discharge elbow and mounting plate, anchor bolts, access frame and cover, electric cables, controls, and accessories for a complete, operable system suitable for installation in Class 1, Division 1 Group D conditions.

B. Pumps shall be suitable for pumping municipal wastewater and shall be capable of passing 3.00” spheres without clogging.

C. Pumps shall be suitable for continuous operation at flow conditions stated herein without excessive noise, vibration, heating, cavitation, or damage to pump.

D. Head characteristics for pumps:

1. Each pump shall be capable of delivering the following performance points:

Point	U.S. GPM	TDH
1	55	39
2	250	29
3	480	16

2. Continuously rising as flow is decreased.

E. Size pumps to allow increase in rated pump head by as much as 10% by replacement of impellers.

F. Fit each pump with centered lifting loop and Type 316 stainless steel lifting chain of adequate strength to raise and lower pumping unit. Chain shall be of length required for installation depth shown on Drawings.

G. Discharge connections shall be permanently installed in wet well with discharge piping. Pump shall automatically connect to discharge connection elbow when lowered into place and shall disengage easily and automatically without removal of fasteners or piping when pump is raised.

H. Attach sliding guide bracket to pump units which will slide between a minimum of 1 guide rails to properly position pump discharge on discharge connection elbow.

I. Pump, appurtenances, and cable shall be capable of continuous submergence underwater to depth of 40’ (12 m)***** without loss of watertight integrity.

J. Pump cable shall be a minimum of 80’ per pump.

K. Design pump motors to operate continuously at design conditions with 50% of motor unsubmerged without overheating.

L. Pump shall be capable of handling solids, fibrous materials, heavy sludge and other matter found in waste water.

2.2 PUMP DESIGN AND CONSTRUCTION

A. Type: Submersible, nonclog, sewage handling, bottom suction, single vane impeller, integral discharge mating with discharge connection elbow, rail guided.

B. Quantity: See Pump Schedule.

C. Operating conditions: See Pump Schedule.

D. Materials:

1. Casing: Cast iron, ASTM A48 Class 35B.

2. Impeller: Cast iron, ASTM A48 Class 35B.

3. Shaft: Type 420 stainless steel.

4. Exposed nuts and bolts: Type 316 stainless steel.

5. Adjustable bottom wear plate: ASTM A48 Class 35B

6. Anchor bolts: Type 316 stainless steel.

E. Casing:

1. Volute: Single-piece design with smooth fluid passages.

2. Pump casing shall be of sufficient thickness to withstand a minimum hydrostatic test pressure of 150 psig (1,030 kPa).

3. Provide with adjustable bottom wear plate.

4. Mating surfaces requiring watertight sealing shall be machined and fitted with nitrile rubber O- rings. Sealing shall be accomplished by metal-to-metal contact and controlled compression of O- ring without specific torque requirement.

5. Cable entry design:

a. Ensure a watertight and submersible seal without specific torque requirement.

b. Provide close tolerance fit against cable outside diameter and cable entry inside diameter and shall produce compression seal when installed.

c. Entry body shall provide strain relief separate from sealing function to prevent strain in cable from damaging seal and allowing entry of water.

d. Cable entry junction chamber and motor shall be separated by stator lead sealing gland or terminal board which shall prevent foreign material from coming in contact with motor interior.

e. Junction chamber, containing terminal board with permanently affixed connectors between cable conductors and stator leads, shall provide completely leakproof seal from motor.

F. Impeller:

1. One-piece, semi-open, single vane, nonclog-type capable of handling solids normally present in sewage.

2. Manufactured from gray cast iron, Class 35B.

3. Capable of passing minimum of 3.00” solid.

4. Statically and dynamically balanced, securely positioned and locked to shaft using key and cap screw. Provide means for impeller clearance adjustment.

5. Impellers shall have smooth contours.

G. Shaft:

1. Machine and polish over entire length.

2. Dynamically balanced with impeller at all operating speeds.

3. Shaft shall provide rigid support of impeller and prevent critical vibration at all operating speeds.

H. Bearings:

1. Anti-friction ball and/or roller bearings, ABMA L10 life rating of 100,000 hours, designed to carry thrust and radial loads.

2. Lubrication: Permanently lubricated with grease or oil specifically suited for high temperature applications.

I. Thermal protection:

1. Provide thermal sensors to monitor stator temperatures. Three thermal switches, 1 in each stator phase, shall be embedded in end coils.

J. Moisture protection: Provide an electrical probe in the sensing chamber positioned between the primary and secondary mechanical seals for detecting the presence of water contamination within the chamber. A solid-state relay shall be mounted in the pump control panel shall send a low voltage, low amperage signal to the probe.

K. Seals:

1. Provide pump with shaft sealing system utilizing oil chamber.

a. Oil chamber shall provide means to compensate for changes in oil pressure.

b. Provide oil chamber with easily accessible drain and inspection plug equipped with positive, antileak seal. Access to plug shall not require any

disassembly of pump.

2. Dual independent mechanical rotating shaft seal system running in oil reservoir.

   a. Lower seal unit, between pump and oil chamber: 1 stationary and 1 positively driven rotating silicon carbide or carbon ceramic ring. Impeller pump-out vane shall be used in conjunction with carbon ceramic.

   b. Upper seal unit, between oil chamber and motor housing: 1 stationary silicon carbide and 1 positively driven rotating Silicon Carbide ring.

   c. Seal faces: Hold in contact by integral springs and hydrodynamically lubricate at constant rate.

3. Seals shall require neither maintenance nor adjustment and shall be easily inspected and replaceable.

4. Cable entry seal design shall preclude specific torque requirements to insure a watertight and submersible seal.

2.3 ACCESS FRAME AND HATCH

A. Provide double leaf corrosion resistant access frame and hatch for pumps per Section 08 10 10.

2.4 PRECAST CONCRETE FLAT TOP SLAB

A. Pump installation shall be coordinated with the manufacture of the new wet well top slab as specified in Section 03 00 00.

2.5 GUIDE RAILS AND BRACKETS

A. Guide rails: Minimum Schedule 40, Type 316 stainless steel pipe of sufficient size to remain rigid and unbending under intended loading conditions.

B. Guide bars shall not support any portion of weight of pump.

C. Secure lower end of guide bars to discharge connection. Secure upper ends to frame of access cover.

D. Provide intermediate guide bar spacer supports when clear span distances between supports will exceed 12' (3.6 m).

E. Sliding guide brackets: Cast iron or fabricated steel, galvanized after fabrication.

2.6 MOTORS

A. Standards: Applicable parts of NEMA MG1.

B. Type: Squirrel cage induction, shell-type design, housed in air-filled, watertight chamber. Oil-filled ball bearing motor acceptable alternate.

C. Enclosure: Completely submersible, watertight.

D. Ratings: Continuous duty 240-volt, 3-phase, 60 Hz, 1.3 service factor; capable of sustaining minimum of 15 evenly spaced starts per hour.

E. Insulation and temperature rating: Class H insulation rated at 180°C (356°F).

F. Starting: Full-voltage, across-the-line, for constant-speed pumps;.

G. Nameplate horsepower shall be not less than maximum required pump input for all conditions of head and capacity for full range of impeller furnished, but shall not exceed 3 hp.

H. Equip air-filled type motors with water jacket cooling system encircling stator housing designed to circulate pumped liquid and sized to be nonclogging.

I. Monitor stator temperature for pumps using thermal sensors embedded in each stator winding. Sensors shall be used in conjunction with and supplemental to external motor overload protection.

J. Motors shall be furnished with preassembled power and control cables.

2.7 CONTROLS

A. System controls shall conform to Section 33 09 30 – Wastewater Pumping Control System.

2.8 SHOP FINISHING

A. Sandblast submerged ferrous surfaces to SSPC SP10 finish and give one shop coat of Tnemec "46H- 413 Hi-Build Tneme-Tar," or equal coal tar epoxy, 8 mdft.

B. Coat machine finished surfaces with suitable corrosion preventative compound.

2.9 IDENTIFICATION

A. Permanently attach stainless steel nameplate to pump. Nameplate shall contain

following information:

1. Equipment number (see Drawings).
2. Serial number of pump.
3. Capacity in gpm.
4. Pumping head in feet.
5. Speed, rpm.
6. Manufacturer's name.
7. Size and type of pump.
8. Motor horsepower.
9. Design pressure and temperature.

B. Each pump shall be provided with a cast-in or permanently attached direction-of-rotation arrow.

2.10 SOURCE QUALITY CONTROL

A. Hydraulic performance shop test:

1. Submersible pumps shall be factory-tested at pump manufacturer's plant. Tests shall be in accordance with Test Code of Hydraulic Institute Standards.
2. Test curves shall cover full range of operation from shutoff to maximum capacity, and have capacity plotted as abscissas, and operating head, brake horsepower, net positive suction head required (NPSHrq) and efficiency plotted as ordinates. Each test shall be witnessed by a registered professional engineer, who may be an employee of manufacturer. Registered engineer will sign and seal all copies of pump curves and shall certify that hydrostatic tests were performed.
3. Test points:
    a. Shut off.
    b. Maximum run out.
    c. Design operating condition.

d. Two additional points, 1 on each side of design operating condition.

4. Test tolerances:

a. Pumps shall be within 1 or other of following tolerance:

1) At rated head: +10% of rated capacity.

2) At rated capacity: +5% of rated head.

b. No minus tolerance or margin shall be allowed with respect to capacity or total head at rated or specified condition.

c. Pump manufacturer shall provide shop space, tools, equipment, instruments, personnel, and all else required for satisfactory completion of tests. Payment for tests shall be included in Contract amount.

d. Certified test curves shall be submitted and reviewed prior to pumps being released for shipment.

B. Pump tests:

1. Pump manufacturer shall perform following inspections and tests on pumps prior to shipment:

a. Inspect for conformance to Contract Documents with respect to correct model number, motor rating, and electrical connections.

b. Test motor and seal housing chambers for moisture content or insulation defects.

c. Prior to submergence, allow pump to run dry to establish correct rotation and mechanical integrity.

d. Discharge piping attached to pump shall operate submerged under a minimum of 6' (1.8 m) of water for a minimum of 30 minutes.

e. After operational test, motor and cable shall be tested again for moisture content or insulation defects.

PART 3 – EXECUTION

3.1 INSTALLATION

A. Install in accordance with manufacturer's recommendations.

B. Install access frame and cover in wet well concrete cover.

3.2 MANUFACTURER'S FIELD SERVICES

A. Provide qualified service representative to perform functions described in Section 01 43 00.

B. Test removal and replacement of pumps to prove the pumps and guiderail systems are properly installed and aligned.

C. After installation of pumping equipment, and after inspection, operation, testing and adjustment have been completed by manufacturer's field service technician, conduct running test for each pump in presence of the Engineer to determine its ability to deliver its rated capacity under specified conditions.

1. Field testing will not be conducted without an approved procedure and calibration certificates for all testing equipment, gauges and flow meters.

2. During tests, observe and record head, capacity and motor inputs.
3. Immediately correct or replace all defects or defective equipment revealed by or noted during tests at no additional cost to the Owner.

4. Repeat tests until specified results are obtained.

5. Contractor to provide all labor, piping, equipment, portable flow meters, calibrated gauges or calibrated test gauges, and materials for conducting tests. Tests will not be acceptable if equipment calibration is not within 60 days of the field testing.

D. Calibrate transmitters and receivers to imposed input values representing 0 percent, 50 percent, 80 percent and 100 percent of full scale. Calibrate all process sensing variables and control signals using test equipment, (such as manometers for process pressure sensing and digital voltmeters for electronic control signals) which is at least five times more accurate than instrument to be calibrated.

E. Adjust secondary functions such as alarm actuations during initial calibration, and demonstrated after system is placed in service.

F. Conduct process calibration on all measuring systems. Document for records and submit to Engineer.

3.3 PUMP SCHEDULE

Service	Regency Court Lift Station: municipal wastewater, continuous duty
Type	Submersible Non-Clog
No. Req'd	3 (2 installed + 1 spare)
Rated Operating Capacity TDH	199 GPM @ 26.59 TDH
Full Load Synchronous Motor Speed Maximum	1750 RPM
Min. Hydraulic Efficiency at Max. Pump Speed	59%
Motor HP	3.75

PART 4 – MEASUREMENT AND PAYMENT

4.1 MEASUREMENT

A. Measurement will not be made for the Work specified in this Section.

4.2 PAYMENT

Payment for the Work specified in this Section will be made at the lump sum price for SUBMERSIBLE SOLIDS HANDLING PUMPS AND APPURTENANCES.

SUMP PUMP SYSTEM
SECTION 22 14 29

PART 1 – GENERAL

1.01 SUMMARY

A. Furnish and install one (1) dry submersible sump pumps.

B. Work includes: Pumps, motors, discharge piping to outfall, and piping / electrical appurtenances as required.

1.02 RELATED WORK:

A. Section 01 33 00: Submittals

B. Section 26 05 00: Electrical Work – General

C. Section 26 05 33: Electrical Conduit

D. Section 26 05 16: Electrical Wires and Cables

1.03 SUBMITTALS

A. Provide submittals in accordance with Section 01 33 00.

B. Submittals to include pump technical information, materials of construction, head curves, solids handling capabilities, motor data, and data on proposed accessory equipment as specified herein. Submittals also to include operation and maintenance manuals as specified in Division 1.

C. Additional submittals shall include discharge PVC piping, check valve, ball valves, couplings, fittings and other discharge accessories.

PART 2 - PRODUCTS

2.01 PUMPS

A. Each sump pump shall be of cast iron construction with anti-clog vortex impeller capable of passing ½ inch solids, 1/3 horsepower motor for 115 V, single phase, 60 HZ service with a 20 foot long power cord and piggyback mounted diaphragm pressure switch.

B. Model shall be SD33A as manufactured by Hydromatic or approved equal.

2.02 DISCHARGE PIPING AND ACCESSORIES

A. Discharge piping shall be 1-1/2 inch PVC SDR 26 with fusion welded joints.
B. Fittings, check valves, ball valves, couplings, and other discharge piping accessories shall be provided by a single supplier.

PART 3 - EXECUTION

3.01 INSTALLATION

A. Install pump units in accordance with the manufacturer's recommendations and approved shop drawings.

1. Clean before pump installation.

2. Complete all piping and wiring, make adjustments to equipment to provide complete operating system.

3. Within two feet of the pump discharge, provide and install a flexible connection to reduce transfer of vibration to the piping, one 1-1/2 inch PVC check valve, and one 1-1/2 inch PVC ball valve.

4. Confirm that the sump pump will operate within the manufacturer's recommended operating range without closing the ball valve more than 25% and provide additional vertical piping if needed to meet this requirement.

5. Piping shall extend and discharge to the manhole upstream and adjacent to the lift station wet well.

6. Discharge piping from the two sump pumps shall not combine, but shall discharge independently into the discharge manhole.

7. Outfall into the discharge manhole shall include a turn down 90º bend fitting followed by 2-feet of pvc piping.

PART 4 – MEASUREMENT AND PAYMENT

4.01 MEASUREMENT:

A. Measurement will not be made for the Work specified in this Section.

4.02 PAYMENT

A. Payment for the Work specified in this Section will be made at the lump sum price for SUMP PUMP SYSTEM.

--- END OF SECTION ---

ELECTRICAL WORK - GENERAL
SECTION 26 05 00

PART 1 – GENERAL

1.01 SCOPE

A. Provide complete and operational power systems, grounding systems and other specified systems, including the installation and wiring of miscellaneous equipment and devices. Perform all work and testing as indicated and specified.

1. Provide conduit, wiring and connections for power, control, instrumentation and alarms for equipment furnished by others unless otherwise specified and indicated.

2. Provide temporary electrical service, power to temporary pumps as required, and circuits, overcurrent devices, conduit and wiring, and other equipment required during construction and change-over from existing to proposed electric system. Perform work at the convenience of the Owner.

3. Raceways supports and equipment anchoring shall be provided as specified in the Division 26 sections which form a part of the Contract Documents.

4. Electrically powered equipment and devices provided under other divisions and sections of the specifications.

B. Earth and rock excavation, backfill, concrete masonry, concrete reinforcement, and construction joints required for Electrical work shall be provided under other Divisions of Work specified under this contract.

1.02 RELATED WORK:

A. Division 1: General Requirements

B. Division 2: Site Work

C. Division 3: Concrete

D. Division 22: Plumbing

E. Division 33: Utilities

F. Disconnecting, removing, and relocating existing electrical equipment is a part of this Contract and is specified under Section 02 41 00.

1.03 SUBMITTALS:

A. Submit the following in accordance with Section 01 33 00 - Submittals:

1. Shop Drawings and Data: Include manufacturer's drawings, bills of material, panel and equipment layouts, catalog data, schematics diagrams, interconnection diagrams, wiring diagrams and other documentary or descriptive information as required for each assembly submitted in one package insofar as possible.

i. Bills of material: Include a numbered list of all components, with manufacturer's name, catalog number, rating, and other identification. Place item number or similar identification on all other drawings where item appears.

ii. Where additions and modifications are made to existing equipment, provide drawings which include both retained existing equipment and new work.

iii. For informational purposes only, submit equipment installation instructions in separate submittals from other shop drawings.

iv. Shop drawings and data are required for the following list:

1. Circuit Breakers
2. Conduit and Fittings
3. Wire and Cable
4. Wiring Devices
5. Grounding Equipment and Devices
6. Control Stations
7. Enclosures
8. Control Panels
9. Double throw fused Safety Switch – service entrance rated
10. Field Acceptance Test Reports

11. Record Drawings

v. Mark shop drawings and data submitted to indicate items applicable to this specific contract.

vi. Include one-line diagrams, schematic diagrams, wiring diagrams, control sequence diagrams, relay diagrams, and metering. Submit only completed drawings showing all local and remote devices associated with each item. Submit one complete package of shop drawings. Partial submittals will be returned without action.

vii. Install permanent nameplates on all devices or pieces of equipment such as starters, relays, contactors, pushbuttons, indicating lights, switches, enclosures, control panel, and pull/terminal boxes. Ensure position of nameplates readable after equipment installation.

viii. Submit arc flash calculation for the lift station and provide plastic coated label on control panel with the results of the study.

1.04 QUALITY ASSURANCE:

A. Provide in accordance with Section 01 43 00 and as specified.

B. Install electrical work in conformance with latest rules and requirements of National Fire Protection Association Standard No. 70 (National Electrical Code), and the Village of Arlington Heights, IL.

1.05 INTERFERENCE AND ERRONEOUS LOCATIONS:

A. Locations of electrical equipment, devices, outlets, and similar items, as indicated, are approximate only. Exact locations shall be determined during construction.

B. Verify in field, all data and final locations of work installed under other sections of specifications, required for placing of electrical work.

C. In case of interference with other work or erroneous locations with respect to equipment or structures, furnish all labor and materials to complete the work.

1.06 APPROVAL AND MARKING EQUIPMENT:

A. Ensure that devices and materials are listed and/or labeled by Underwriters Laboratories, Inc., wherever standards have been established by that agency. Where Underwriters Laboratories listing is not available for equipment, submit certified test reports of Nationally Recognized Testing Laboratory, approved by the local inspecting authority, indicating that equipment is in conformance with local

code requirements or any other applicable requirements. Tests and inspections for approval of equipment shall be performed at no additional cost to Owner.

B. Clearly mark equipment, devices and material with name or trademark of manufacturer and rating in volts and amperes and other pertinent information on a nameplate.

1.07 ELECTRIC SERVICE:

A. The existing electrical power system for the Regency Court Lift Station is 120/240V, 3- phase, 4-wire.

1.08 EQUIPMENT SPECIFIED ELSEWHERE:

A. Certain items of control equipment and other equipment are indicated on electrical drawings for connection, but are specified in other sections pertaining to plumbing, mechanical process, instrumentation, etc. Such items are not furnished as part of electrical work.

1.09 ALTERATIONS:

A. All modifications or alteration to existing electrical facilities required shall be made to successfully install and integrate the new electrical equipment as shown. All modifications to existing manholes, equipment, panels or cabinets shall be made in a professional manner with all coatings repaired to match existing.

B. Provide temporary wiring as needed for equipment intended to operate during alterations.

C. Where existing equipment including wiring is in the way of new Work and is required to be relocated, disconnect electrical circuits, relocate equipment as directed, and reestablish circuits.

1.10 ELECTRICAL SHUTDOWN:

A. When an electrical shutdown is necessary, notify the Owner stating when shutdown is wanted, work planned during shutdown, and estimated shutdown time.

B. Plan work to minimize shutdown. Before starting, have equipment to be used unpacked, checked for damage, and checked dimensionally to ensure proper fit.

1.11 INCOMING SERVICE:

A. Contact the following organization for coordinating electric service requirements:

ComEd
New Business Engineering
1500 Franklin Blvd.
Libertyville, IL 60048
(224) 501-8821

B. The organization identified above will furnish:

1. Meter

C. The Contractor shall provide the following in accordance with the contract documents:

1. Meter enclosure including bypass device with 100% bypass capacity.

2. Secondary cables of sufficient length for termination at the pole mounted transformer.

D. Charges and fees by Power Company for providing the permanent electrical service is a contingency item paid by Owner, and is included in the contract as an allowance. All other charges and fees including but not limited to temporary service and power used will be at no additional cost to the Owner. These other charges shall include provision for temporary service during construction and costs associated with by-pass pumping.

1. Perform all work in accordance with power company's requirements and in manner approved by Power Company.

2. Notify Power Company, in writing, within two weeks after the contract award date concerning incoming service requirements.

E. The final, complete installation shall comply with all state and local statutory requirements having jurisdiction. The Contractor shall arrange for all necessary permits, pay all fees and arrange for all required inspections by local authorities. All work shall comply with the requirements of the National Electrical Code, all state codes and the codes and ordinances of the city or town in which the work is to be done.

PART 2 – PRODUCTS

2.01 MATERIALS

A. Standard Products

The equipment furnished shall be standard products in production by reputable companies regularly engaged in the manufacture of high-quality equipment of the

type specified. Similar equipment shall have been in satisfactory and successful operation for a period of at least two years. All parts of the specified equipment shall be so designed as to be especially adapted for the service required and shall be proportioned, enclosed, or guarded as to have ample and liberal strength and stability to withstand, without damage, the stresses to which they may be subjected during erection or operation. The component parts of duplicate items shall be fabricated on a principle of interchangeability to facilitate ready replacement.

B. Materials

All material incorporated in the equipment shall be new and of first-class quality, free from injurious defects and imperfections, and of the classifications and grades designated. Materials not specifically designated herein shall be subject to the review of the Owner's Representative and shall be suitable for the purpose intended.

C. Identification Symbols and Nomenclature

Identification symbols and nomenclature where used throughout these Specifications are the same as those shown on the Drawings. Paragraphs of the Specifications describing the requirements of a single item of equipment shall apply equally to all identical items of equipment to be furnished.

D. Power Company: Secondary metering equipment furnished by power company as follows:

1. Meter

E. Electrical Contractor: Secondary metering equipment installed by Electrical contractor as follows:

1. Meter (furnished by Power Company)

2. Meter enclosure (furnished by Electrical Contractor from Power Company approved metering equipment enclosure list.)

2.02 RATINGS

A. The sizes, ratings, capacities, and performance characteristics of various specified items of equipment and devices are based on currently available standard products, which are available through United States manufacturers. In no case shall the size, rating, capacity or performance characteristic be less than that specified unless approved in writing by the Owner's Representative. Ratings and performance characteristics, where applicable, of various devices and items of equipment are specified in respective Sections of these Specifications. All electrical equipment shall be UL rated.

2.03 DETAILS OF CONSTRUCTION

A. Electrical work shall meet requirements of these Specification, product manufacturer's instructions, recommended tolerances and recommended procedures, and as indicated by final reviewed submittals for the Work.

B. Materials shall be of size and thickness indicated. If not indicated, size and thickness shall be selected to provide strength and durability in finished Work for intended application. Work to dimensions indicated, using proven fabrication details.

C. Product finishes, surfaces and edges shall be smooth and free of marks, burrs, seams, roughness and like defects or conditions.

D. Other electrical-mechanical product construction details shall be in accordance with the best engineering practices, applicable code requirements and as specified in other Sections of these Specifications.

PART 3 – EXECUTION

3.01 GENERAL

A. The Contract Drawings indicate the general details necessary for the complete electrical installation. It shall be the Contractor's responsibility to install all electrical work in a neat and workmanlike manner. The Contractor shall cooperate with others to permit the installation of all of the Work without interferences. If changes become necessary to avoid interference between the Work installed under various Sections, the Contractor shall submit to the Owner's Representative, for review, the proposed changes and upon review by the Owner's Representative, proceed with the installation of such changes without additional cost to the Owners.

B. The Contractor shall maintain at the site a set of black-line prints on which shall be accurately shown the actual installation of all Work done under Division 16 and any variation from the Contract Drawings as reviewed by the Owner's Representative including changes in sizes, locations, and dimensions shall be indicated thereon. At the conclusion of the Work, the Contractor shall furnish record drawings in accordance with the General Conditions and as specified herein.

3.02 FACTORY TEST AND INSPECTION

A. All equipment shall be shop-assembled and tested in the manufacturer's shop in accordance with recognized standard practices. Factory tests and inspections

shall be conducted to verify that the equipment is operating satisfactorily and in compliance with the Specifications.

3.03 INSTALLATION AND TESTING

A. General: Examine the areas and conditions under which electrical work is to be installed or performed and remedy any conditions detrimental to the proper and timely completion of the Work. Do not proceed with the Work until unsatisfactory conditions have been corrected.

B. Existing Facilities: Verify existence, location, and operation of existing electrical facilities to be abandoned, removed, altered, modified and/or temporarily relocated to allow activities during construction of the Work.

C. Install electrical work. Meet requirements of these Specifications, product manufacturer's instructions, recommended tolerances, and recommended procedures and as indicated by final reviewed submittals for the Work.

D. Trenching and Backfilling. Unless otherwise specified, trenching and backfilling for conduit, cable, etc. shall be in accordance with IDOT Standard Specifications.

E. Tests: Comply with the requirements of Section 26 05 00 as a minimum, and as specified in other Sections of these Specifications.

3.04 METERING EQUIPMENT:

A. Install metering equipment as follows:

1. Ensure that metering equipment installation shall be in accordance with requirements of Power Company by submitting drawings, sketches, catalog information and other appropriate material for power company approval.

3.05 REMOVAL AND RELOCATION OF MATERIAL AND EQUIPMENT:

A. Carefully dismantle and salvage electrical equipment, switches, fixtures, conduits, cables, wiring, boxes, as necessary to carry out proposed changes.

1. The Owner shall mark any additional equipment that is to be delivered to the Village.

B. Remove from site and dispose of material and equipment not indicated for reuse.

3.06 WORK AT EXISTING LIFT STATION SITE:

A. Each bidder or his authorized representative shall, before preparing his proposal, visit all areas in which work under this bid is to be performed and inspect carefully

the present installation. The submission of the proposal by this bidder shall be considered evidence that he or his representative has visited the site and noted the location and conditions under which the work will be performed and that he takes full responsibility for a complete knowledge of all factors governing his work.

B. In the area of the work, disconnect and carefully remove the existing electrical equipment and devices so noted. With the exception of items indicated as having to be re-used, items specifically noted by the Owner before start of work shall be turned over to the Owner. If not required by the Owner, remove them from the premises and site. All existing electrical equipment and devices indicated as not removed or abandoned are to be maintained in operation and any circuits disturbed by the construction shall be restored.

C. Maintain existing electrical services and systems to the lift station throughout the project and all “down-time” shall be scheduled at least two weeks in advance with the permission of the Engineer and such scheduling shall be rigidly adhered to.

3.07 DEMOLITION:

A. Survey the existing electrical systems and equipment identified for removal with representative from the other trades prior to performing any demolition work. Identify all conduit and equipment to be removed with tags or paint. The Owner will indicate any equipment to be removed and given to the Owner.

B. Where a piece of equipment is to be removed all associated ancillary components (e.g. solenoid valves, pressure switches, etc.) and associated wiring and conduit shall also be removed.

C. Equipment, building or structures scheduled for complete demolition shall be made safe from electrical shock hazard prior to demolition. Disconnect all electrical power, communications, alarm and signal system.

D. Equipment scheduled to be turned over to the Owner shall be carefully disconnected, removed and delivered to the Owner where indicated. Provide labor, hoisting and transportation of the equipment. All other miscellaneous electrical materials, devices, etc., associated with the equipment being turned over shall be demolished and removed from the site.

E. Unless otherwise specifically noted, remove unused exposed conduit and support systems back to point of concealment. Remove unused wiring back to source (or nearest point of usage).

F. Disconnect and remove abandoned panelboards, disconnect switches, control stations, distribution equipment, etc.

G. Disconnect and remove abandoned luminaries. Remove brackets, stems, hangers and other accessories.

H. Repair adjacent construction and finishes damaged during demolition and extension work.

I. Coordinate electrical power outages to the electrical systems and equipment with the Owner. Where duration of proposed outage cannot be allowed by the Owner, phase the retrofit work to allow the system or equipment to be re-connected to the electrical power system within the time frame allowed by the Owner or provide temporary power connections as required to maintain service to the systems or equipment. The temporary power can be from a generator or another part of the facility not affected by the outage provided there is sufficient spare capacity.

J. Continuous service is required on all circuits and outlets affected by these changes, except where the Owner will permit an outage for a specific time. Obtain Owner's consent before removing any circuit from continuous service.

K. The electrical and process equipment to be removed or relocated under this contract has been identified on the Drawings. Survey the affected equipment and lift station areas before submitting bid proposal.

L. Trace out existing wiring that is to be relocated, or removed and perform the relocation or removal work as required for a complete operating and safe system.

M. All equipment, materials, controls, motor starters, branch and feeder breakers, panelboards, transformers, wiring, raceways, etc. furnished and installed to temporarily bypass the lift stations shall be removed when the permanent installation is fully operational.

3.08 PROTECTION OF ELECTRICAL EQUIPMENT:

A. Protect electrical equipment from the weather, especially from water dripping or splashing upon it, at all times during shipment, storage, and construction. Do not store equipment outdoors. Where equipment is installed or stored in moist areas, or unheated buildings, provide acceptable means to prevent moisture damage. Provide uniformly distributed source of heat in electrical equipment to prevent condensation and damage to electrical insulation systems.

3.09 DEFECTIVE OR DAMAGED EQUIPMENT:

A. Do not install equipment or material that was subjected to possible water damage.

3.11 DRAWINGS AND SPECIFICATIONS:

A. Drawings and specifications are typical of work to be done and of the arrangement desired. Provide accessories and appurtenances which the Engineer deems functionally necessary for a complete installation, whether or not explicitly indicated or described.

1. A set of red-lined “as-built” electrical drawings shall be carefully maintained at the job site. Actual condition are to be put on the Drawings in red on a daily basis so the drawings will continuously show location and routing of conduits, pull boxes, circuit numbers, and other information as required.

2. At the completion of the project, provide two sets of drawings that are marked to show the as-installed equipment, devices, duct locations and wiring. These sets are to be provided to the Owner. The markings on the drawings are to be neat, clean and legible.

PART 4 – MEASUREMENT AND PAYMENT

Work specified in this Section will not be measured or paid for as a separate item, but shall be considered as included in the prices bid for the various pay items of work involved.

--- END OF SECTION ---

ELECTRICAL WIRES AND CABLES
SECTION 26 05 16

PART 1 – GENERAL

1.01 SCOPE

A. Provide wires and cables for complete electrical systems as indicated and specified.

1.02 RELATED WORK:

A. Section 26 05 00: Electrical Work – General

1.03 REFERENCES:

A. American Society for Testing and Materials (ASTM):

B3: Soft or Annealed Copper Wire.

B8: Concentric-Lay-Stranded Copper Conductors, Hard, Medium-Hard, or Soft.

B33: Tinned Soft or Annealed Copper Wire for Electrical Purposes.

B. National Fire Protection Association (NFPA):

NFPA-70: National Electrical Code (NEC).

C. Underwriters Laboratories, Inc. (UL):

U.L. 44: Thermoset-Insulated Wires and Cables

U.L. 83: Thermoplastic-Insulated Wires and Cables

U.L. 854: Service Entrance Cables

D. D. Insulated Cables Engineers Association, Inc. (ICEA)/National Electrical Manufacturers Association (NEMA):

ICEA S-61-4021/WC 5: Thermoplastic Insulated Wire & Cable.

ICEA S-66-524/NEMA WC7; Cross-Linked-Thermosetting-Polyethylene Insulated Wire and Cable

ICEA S-68-516/WC 8: Ethylene-Propylene-Rubber-Insulated Wire & Cable.

1.04 SUBMITTALS:

A. Submit the following in accordance with Section 01 33 00 - Submittals: Submit shop drawings and manufacturer's product data in accordance with the requirements of Section 26 05 00.

PART 2 - PRODUCTS

2.01 MANUFACTURERS:

A. 600V Cable:

Nehring Electrical Works Company.

Okonite Company.

Southwire Company, LLC.

USA Wire & Cable, Inc.

Or acceptable equivalent product.

B. Control and Metering Wire:

Belden Wire and Cable

Alpha Wire

2.02 MATERIALS AND COMPONENTS:

A. Furnish copper conductors. Material and stranding of conductors to conform to ASTM B3, ASTM B33, and to ASTM B8, for the appropriate class.

B. All wire shall be brought to the job in unbroken packages and shall bear the date of manufacturing not older than 12 months.

C. Wires and Cables for Maximum 600-Volt Power Circuits: For #8 and smaller provide type XHHW-2. Where used in lighting or receptacle branch circuits provide No. 12 and No. 10. Provide wire with Class C stranding. Provide No. 6 AWG and larger as XHHW-2 with Class B stranding. Provide wires and cable conforming to UL 83.

D. Shielded Cable for Instrumentation Wiring: 7 –strand copper conductors, size No. 16 AWG. Insulate conductors individually with color coded polyethylene or polyvinylchloride. Twist pairs with varying lay (if more than one pair) and cover with cable tape and copper or aluminum coated Mylar shielding tape and tinned

copper drain wire. Jacket: polyvinylchloride. Cables: rated 600 volts and 90 degrees C and listed for installation in wet location.

PART 3 - EXECUTION

3.01 GENERAL:

A. Perform work in accordance with the National Electrical Code.

B. Provide power cable identification as follows:

System Voltage	Neutral	Phase A	Phase B	Phase C
208/120V	White	Black	Red	Blue
240/120V	White-Gray Stripe	Black-Blue Stripe	Red-Blue Stripe	None
120/240V 3 phase	White Gray Stripe	Black Blue Stripe	Orange Blue Stripe	Red
480/277V	Gray	Brown	Orange	Yellow

C. Use green to identify insulated ground conductors.

NOTE: Colored insulation, tapes or sleeves may be used to provide color coding. Insulated ground conductors must have green covering.

D. Permanently identify each grounded and ungrounded conductor for each nominal voltage system at each Pump Control Panel. For 120/240V 3 phase system, the high leg to ground (208V) conductor shall be ORANGE.

3.02 INSTALLATION OF WIRING:

A. Unless otherwise indicated, use no conductor smaller than No. 12 AWG for power, No. 14 AWG for control, and No. 16 AWG for shielded applications.

B. Number and sizes of wires and conduits indicated are a guide only and are not necessarily correct for the actual equipment installed. Install as many wires and conduits as necessary for complete electrical system and provide adequately for the equipment installed.

C. Install conductors continuous from outlet to outlet and make no splices except within outlet or junction boxes.

D. Install cable in underground raceway system without splices. There shall be no splices between connection points unless otherwise indicated.

E. Draw all conductors contained within a single conduit at the same time.

F. Apply wire pulling compound to conductors being drawn through conduits. Use a pulling compound compatible with the conductors being installed.

G. Use no cable bend with radius of less than eight times its diameter.

H. Wires and cables installed without prior submittal review are subject to removal at no additional expense.

3.03 CONDUCTOR IDENTIFICATION:

A. Label each wire at both termination points. Carry individual conductor or circuit identification throughout, with circuit numbers or other identification clearly stamped on terminal boards and printed on directory cards in distribution cabinets and panelboards.

B. Identify each wire in junction boxes, cabinets, and terminal boxes where total number of control, indicating, and metering wires is three or more and no terminal board is provided, including all power wire. Where no termination is made use a plastic-coated, self-adhesive, wire marker and where termination is made use a, plastic, pre-printed sleeve wire marker.

C. In cases similar to above where terminal boards are provided for the control, indicating, and metering wires, identify all wires including motor leads and other power wires too large for connection to terminal boards, by sleeve wire markers as specified above.

D. In manholes and handholes, identify each power wire by laminated plastic tag located so it is easily seen. Control wires to be bundled and marked as listed in conduit and wire schedule.

3.04 CONNECTORS, TERMINAL LUGS AND BOARDS:

A. For wiring of circuits consisting of No. 10 or No. 12 AWG, such as for lighting branch circuits, use self-insulated pressure type connectors for all splices or joints.

B. Terminate all wires connected to terminal boards, terminal blocks, or to other similar terminals by means of ring and tongue, nylon self-insulated, tin-plated copper pressure terminals.

C. Terminal boards shall be 600 volts and rated for 125% of the ampacity of the connected circuit. They shall have screw terminals, with white marking strips for wire identification. Terminate only one wire on a terminal, including ground wires, unless rated for more.

D. Wire connections for which terminals are not supplied, for example, at solenoids or motor terminal junction boxes:

10AWG and smaller: Use self-insulated pressure-type connectors.

8AWG and larger: Use insulated, mechanical type with set screw or follower bearing directly on the wire. Split bolt connectors are not acceptable.

E. Clearly and permanently mark terminal strips with ink or indelible pencil. Mark each wire consistently throughout entire system. Use the notation given on manufacturer's wiring diagrams wherever possible.

3.05 TESTING:

A. Perform tests of all cables prior to energizing in accordance with Section 01 43 00.

B. Submit results of all cable tests on forms indicating cable size, voltage, time, date, name of tester and witness.

3.06 CONTRACT CLOSEOUT:

A. Provide in accordance with Section 01 77 00.

PART 4 – MEASUREMENT AND PAYMENT

4.01 MEASUREMENT:

A. Measurement will not be made for the Work specified in this Section.

4.02 PAYMENT

A. Payment for the Work specified in this Section will be made at the lump sum prices for ELECTRICAL WIRES AND CABLES.

--- END OF SECTION ---

GROUNDING
SECTION 26 05 26

PART 1 – GENERAL

1.01 SCOPE

A. Provide a single, complete, integrated grounding system, including conductors, raceways, and connections, indicated and specified, and in accordance with the National Electrical Code Article 250 and the National Electrical Safety Code.

B. Include grounding of electric equipment enclosures etc., ground electrode systems with ground rod.

C. Include grounding conductors completely inter-connecting water supply pipe, ground rods, ground grid, other distribution equipment, and other groundable equipment.

1.02 RELATED WORK:

A. Section 26 05 00: Electrical Work – General

B. Section 26 05 33: Electrical Conduit

1.03 REFERENCES:

A. American National Standards Institute (ANSI)/Institute of Electrical and Electronics Engineers (IEEE):

1. ANSI-C2-/IEEE: National Electrical Safety Code.

B. National Fire Protection Association (NFPA):

1. NFPA-70: National Electric Code.

1.04 SUBMITTALS:

A. Submit the following in accordance with Section 01 33 00 - Submittals:

1. Submit shop drawings and manufacturers' product data in accordance with requirements of Section 26 05 00.

2. Submit information on:

i. Ground rods

ii. Exothermic welding

iii. Connecting hardware

PART 2 – PRODUCTS

2.01 MANUFACTURER'S COMPLIANCE:

A. Manufacturer's acceptance contingent upon products' compliance with the specifications.

2.02 MANUFACTURERS:

A. Ground Rods:

1. ERICO Products Inc.

B. Exothermic Welding:

1. ERICO Products, Inc.

2. Or an acceptable equivalent product.

C. Connecting Hardware:

1. ERICO Products Inc.

2. Thomas and Betts

3. Or an acceptable equivalent product.

2.03 MATERIALS AND COMPONENTS:

A. Conductors:

1. Provide copper grounding conductors bare or insulated, sized as indicated or as required by the NEC. Minimum bare conductor size shall be No. 2 AWG. Provide protection of conductors if physical damage would result from direct exposure.

2. Provide bare conductors where conductors are buried in the earth or where they are embedded in the concrete.

B. Ground Rods: Provide 3/4-inch diameter, 10-foot long copper-clad steel ground rods where indicated. Where rock is encountered, grounding plates may be used in lieu of grounding rods.

C. Connections:

1. Provide silicon bronze ground clamps for use on copper or brass pipes which are U.L. listed.

2. Provide ground clamps, for use on iron pipes, of galvanized or malleable iron, or of standard noncorrosive material.

3. Furnish ground clamps, for use on pipes, with rigid metal base providing good contact by proper seating on the pipe. Do not use strap type clamps.

4. Provide copper-clad steel ground rods; Make cable to ground rod connection without passing over end of ground rod.

PART 3 - EXECUTION

3.01 EXOTHERMIC WELDING:

A. Welding shall be by the exothermic process.

B. Within the welding procedure, include the proper mold and powder charge and conform to the manufacturer's recommendations.

C. Welding processes shall be the exothermic fusion type that will make a connection without corroding or loosening.

D. The welding process shall join all strands and not cause the parts to be damaged or weakened.

E. Completed connection or joint shall be equal or larger in size than the conductors joined and have the same current-carrying capacity as the largest conductor.

F. Paint buried ground connection with a bitumastic paint.

3.02 INSTALLATION OF GROUNDING CONDUCTORS:

A. Install grounding conductors so that they will not be exposed to physical damage. Install connections firm and tight. Arrange conductors and connectors so no strain on connections. Grounding conductors for support structures, antenna, pressure transmitter, and light pole shall be installed in PVC conduit passing through the concrete base or slab for each of these pieces of equipment. Conduit shall pass through and extend 6 inches from the side of the concrete to allow for future maintenance and replacement as required.

B. Run grounding conductors associated with concrete ductbank in common trenches.

C. Bury equipment grounding conductors 30 inches deep. Bring loops or taps up for connection to equipment or other items to be grounded.

D. Where raceways are used to contain and protect grounding conductors, install in accordance with Sections 26 05 33.

E. Where bare grounding conductors are contained within metallic raceways, bond ends of raceways to conductors.

F. Install loop type, low impedance, grounding system interconnecting all components so at least two grounding connections are provided for each major item of electrical equipment. Ensure that severing of any single grounding conductor in this system does not remove grounding protection on any major item.

G. Buried and concealed ground connections shall use exothermic welding.

H. Make accessible connections to structural members by exothermic welding process or by bolted connector. Connections to equipment or ground bus by bolted connectors.

3.02 INSTALLATION OF GROUND RODS:

A. Install ground rods near equipment as indicated on schematic. Install the top of the rod 12-in. below the ground surface.

B. Make connection to overall grounding system as indicated.

C. Ensure that final resistance of interconnected ground system is 5 ohms, or less. Measure ground resistance in normally dry conditions, and not less than 48 hours after rainfall.

3.03 EQUIPMENT GROUNDING:

A. Ground each piece of electrical equipment by means of a grounding conductor installed in raceway feeding that piece of equipment. Grounding conductors installed in conduit with insulated conductors to be furnished with green, 600-volt insulation. Ground conductors are in addition to and not to be considered as the neutral wire of the system.

B. Connect power transformer cases and neutrals to grounding system. Connect neutral ground connection at transformer terminal. Provide two separate,

independent, diagonally opposite, connections for power transformers so removal of one connection will not impair continuity of other.

C. Connect a grounding conductor between panelboard and grounding system. Where a grounding bar is furnished with panelboard, connect grounding conductor to bar.

D. Where conduits are not effectively grounded by firm contact with a grounded enclosure, apply grounding bushings on at least one end of conduit run.

E. Ground wire fences when used to enclose electrical equipment or when overhead electrical lines cross fence. Unless otherwise indicated, provide grounding by buried outside peripheral ground loop; connections to each corner fence post and nearby ground rod; flexible connections to each gate; and at least two connections to grounding system from approximately opposite positions on fence.

3.04 SIGNAL GROUNDING:

A. Ground signal surge protection and shields of twisted, shielded cable using a signal bonding conductor. The signal bonding conductor shall be a continuous path from the instrument surge protection or shield to the grounding electrode conductor. The signal bonding conductor shall be isolated from the equipment grounding conductor for its entire path.

B. Where convenient several signal bonding conductors may be combined, providing that all the following conditions are met:

1. The combined signal bonding conductor shall have the equivalent cross section of the conductors that it was combined from or three times the cross section of the largest conductor that it was combined from, whichever is less.

2. The combined signal bonding conductor shall be isolated from the equipment grounding conductor.

3. Where two signal bonding conductors are combined use a three-port insulated splice.

4. Where three or more signal bonding conductors are combined, use a copper bus mounted on 600V insulators. Attach each conductor to the bus using an insulated ring tongue lug and screw terminal.

3.05 TESTS AND CHECKOUTS:

A. Testing shall not be performed within 48 hours of rainfall. Dry season resistance of each electrode(s) shall not exceed 5 ohms. If such resistance cannot be obtained with the system as installed, additional grounding rods shall be provided as required.

B. Furnish copies of test reports on ground system.

3.06 CONTRACT CLOSEOUT:

A. Provide in accordance with Section 01 77 00.

PART 4 – MEASUREMENT AND PAYMENT

4.01 MEASUREMENT:

A. Measurement will not be made for the Work specified in this Section.

4.02 PAYMENT

A. Payment for the Work specified in this Section will be made at the lump sum prices for GROUNDING.

--- END OF SECTION ---

ELECTRICAL CONDUIT
SECTION 26 05 33

PART 1 – GENERAL

1.01 SCOPE

This Section covers the general provision for furnishing and installing all conduits, related boxes and fittings, and associated accessories as required for the electrical power, control, annunciation, instrumentation, communication, and lighting systems as shown on the Drawings and as specified herein. All necessary hardware including, but not limited to screws, bolts, hangers, concrete inserts, clamps, locknuts, bushings, sealing bushings, couplings, pulling-in irons, identification tags, etc. shall be included.

1.02 QUALITY ASSURANCE

A. Acceptable Manufacturers

Shall include but not be limited to Allied Tube & Conduit, Republic Conduit and Wheatland Tube Company.

B. Applicable Standards

All Work shall conform to the applicable provisions of the codes, standards, and Specifications, as specified herein, and the following:

Name	Abbreviation
Specifications for Rigid Steel Conduit, Zinc Coated	ANSI C80.1
Specifications for Fittings for Rigid Metal Conduit and Electrical Metallic Tubing	ANSI C80.6
Conduit Fittings and Accessories	NEMA FB-1
Outlet Boxes and Fittings	UL-514
National Electrical Code	NEC

1.03 SUBMITTALS

A. The Contractor shall submit to the Owner's Representative for review drawings, product specifications and descriptions, together with operating and maintenance instructions, specified in Section 01 33 00 of all equipment furnished.

B. As part of the Record Drawings submitted, the Contractor shall submit a conduit schedule at the completion of the Project.

The conduit schedule shall contain, as a minimum, the following information for each run of conduit.

1. Conduit designation.

2. Conduit type and size.

3. Routing: the routing shall identify the equipment (from-to) connected at the conduit termination.

4. Description of cables installed in the conduit including function of cables.

PART 2 - PRODUCTS

2.01 GENERAL

Electrical conduit and related fittings shall be U.L. listed. The conduit inside diameter shall have a smooth finish to facilitate fishing and/or pulling of wires and cables. Where flexible conduits are used, they shall be of the liquid tight type.

2.02 SIZE REQUIREMENTS

Conduit smaller than 3/4-inch in diameter shall not be allowed. Conduit sizes shall be as shown on the Drawings. In cases where conduit sizes are not shown on the Drawings, the minimum size shall be in accordance with the applicable provisions of NEC.

2.03 DETAILS OF CONSTRUCTION

A. Rigid Metal Conduit and Fittings

1. Rigid metal conduit shall be heavy wall, hot-dip galvanized steel. Thin wall conduits and metallic tubing are not acceptable unless specifically shown on the Drawing or specified for use in other Sections of these Specifications.

2. Metal conduit fittings and covers shall be galvanized or sherardized iron or malleable iron castings with gaskets as required. Composition or rubber gaskets shall be provided where required to prevent entrance of moisture.

3. Rigid metal conduit expansion joint fittings shall consist of standard manufactured products, designed so as to prevent damage to the cables

and equipped with approved means of providing electrical continuity of the conduit run. Expansion joint fittings shall permit a small amount of transverse movement as well as longitudinal movement. All couplings and fitting joints shall be of the threaded type.

4. Aluminum shall not be used either for conduits, fittings, pullboxes, junction boxes, or any other electrical device, unless otherwise specifically shown on the Drawings.

B. Flexible Liquid-Tight Conduit

1. Flexible liquid-tight conduit shall be "Sealtite Type UA".

2. The conduit shall consist of an interlocked galvanized steel core and a liquid tight cover made of polyvinyl chloride synthetic resin. A ground bonding conductor shall be included.

C. Electrical Metallic Tubing (EMT) and Related Fittings Electrical metallic tubing shall comply with FS WW-C-563 and ANSI C80.3. EMT fittings shall comply with FS W-F-408. EMT shall be provided only as shown on the Drawings or as otherwise specified in other Sections of these Specifications. Couplings, connectors and other fittings for EMT shall be cadmium or zinc plated steel, or cadmium plated malleable iron and shall be rain tight, compression type.

D. Rigid Nonmetallic Conduit

1. Rigid nonmetallic conduit shall be of the polyvinyl chloride (PVC) type, schedule 80 as shown on the Drawings, and shall be in accordance with the applicable requirements of NEC.

2. The conduit, fittings and accessories shall be manufactured from polyvinyl chloride complying with ASTM D1784 and shall comply with all the applicable requirements of NEMA Publication No. TC2, UL 651 for EPC-80-PVC and N.E.C. Article 347.

3. Fittings and accessories for the electrical plastic conduit shall comply with all applicable requirements of NEMA Publication No. TC3.

4. The solvent cement used to join the conduit and fittings shall meet the requirements of ASTM D2564.

E. Outlet, Terminal, and Pullboxes and Covers

Outlet, and pullboxes and covers shall be made of stainless steel. Covers shall be secured with screws. Gaskets shall be provided for all boxes. Terminal boxes

shall be furnished with terminal blocks as required and as indicated on the Drawings.

F. Stainless Steel Junction Boxes

1. Junction boxes shall be mounted on the surface of a structure or embedded in a structure as shown on the plans. The junction box shall be furnished with a cover, gasket, and hardware. Hardware furnished for the cover shall be stainless steel.

2. A grounding lug shall be provided in every junction box. A stainless-steel conduit fitting shall be used to connect conduit to a stainless steel junction box.

3. Box covers shall have a continuous formed, seamless, urethane, oil-resistant gasket. The gasket shall be placed directly onto the junction box cover. The gasket shall adhere to the cover without the use of adhesives.

4. Junction box covers shall be attached to the box with un-slotted hex head screws unless otherwise specified.

5. The box shall be made of Type 304 stainless steel, not less than 14 gauge, with all seams continuously welded with stainless steel weld wire and ground smooth. Exterior surfaces shall have a smooth polished finish. The box shall be according to NEMA Type 4X and be UL 50 "Junction and Pull Box", "Junction Box", or "Pull Box".

6. When specified for attachment to a structure, the box shall be suitable for surface mounting, complete with external stainless steel mounting lugs or brackets welded to the box. The box shall have an overlapping stainless steel cover that is secured to the box with a continuous stainless steel hinge and a minimum of four captive stainless steel clamps utilizing captive stainless steel hex-head bolts or deep slotted stainless steel screws.

7. When specified for embedment in structure, the box shall be constructed with the cover arranged to fit flush with the structure surface. The cover shall be attached with stainless steel unslotted hex-head screws.

PART 3 - EXECUTION

3.01 FACTORY TEST AND INSPECTION

Routine factory testing and inspection shall be performed in accordance with the requirements of the applicable standard.

3.02 INSTALLATION AND TESTING

A. General

Any and all excavation, trenching, coring, backfilling, incidental concreting (not part of a structure in which conduits are embedded) and/or concreting required for duct banks, etc. as required for the installation of Electrical Conduit shall be performed by the Contractor at the Contractor's expense. Installation of all raceway conduits and fittings shall be in accordance with these Specifications, manufacturers' recommendations, applicable standards, codes and regulations, and best engineering practices.

B. Installation of Rigid Steel Conduit

1. Installation of all conduits, boxed fittings, and accessories shall conform to the requirements of the "National Electrical Code", insofar as this is applicable. During installation, precaution shall be taken to protect the conduits and conduit threads from mechanical injury. The ends of conduits shall be sealed in an approved manner during installation whenever the work is interrupted. Runs shall be sealed upon completion by the use of caps and discs or plugs. The seals shall be maintained, except during inspection and tests, until the conductors are pulled in. Conduits shall be inspected before conductors are installed and thoroughly cleaned of water and dirt by means of compressed air, swabs or other approved methods. Conduits shall be checked for freedom from obstructions by pulling a wooded mandrel of the proper size through the conduit. All boxes and fittings shall be kept closed and free from dirt, moisture, and debris.

2. Each run of conduit between boxes or equipment shall be electrically continuous. Threads shall conform to ANSI-B2.1 standards for taper pipe threads. Conduits shall be cut square, ends reamed and threads cut with approved dies. Running or non-tapered threads will not be permitted. Conduits entering slip holes in boxes shall be secured with a locknut on each side at the box wall and terminated with bushings.

3. Threaded conduit joints shall be made watertight by use of red lead and oil, white lead and oil, or other approved compounds. Threaded joint compound shall be electrically conductive.

4. Exposed conduit shall be 3/4-inch IPS or larger and shall run in straight lines parallel to walls, beams or columns. Required offsets shall be accomplished by use of uniform offsets, bends, conduit fittings, or standard boxes. Where conduits are grouped, the offsets shall be made in a manner which will present a uniform and symmetrical appearance.

5. Conduits shall be supported as required by NEC. Capped conduit and conduit terminating in boxes or fittings shall be supported as close to the terminal as possible but in no case farther than 3 feet from the terminal. Galvanized clamps, U-bolts, and J-bolts shall be used to fasten conduits. Boxes and equipment housings shall be supported independently of the conduits. Conduits and boxes shall not be fastened directly to concrete but shall be spaced away by means of one-inch galvanized metal channels or spacers. Machine screws or bolts set in concrete inserts or cinch anchors shall be used for securing clamps and boxes to concrete or to steel supporting channels. The use of explosive-driven anchors for securing clamps, supports, and boxes to concrete will not be permitted, except in such cases where special permission has been obtained in writing from the Owner.

6. Exposed conduits inside building shall run supported on walls or on trapezes away from wall.

7. Conduit embedded in concrete shall be one inch or larger, unless otherwise shown on the Drawings. Embedded conduit shall be sloped towards drain points and shall be rigidly supported and braced to avoid shifting during placement of concrete. Embedded conduit runs parallel to concrete surfaces shall be located behind the reinforcing steel except at terminal connections to outlets or junction boxes. Conduit extending out of concrete walls, floors, or beams shall be at right angles to the surface.

8. Minimum spacing of conduits embedded in concrete shall be as required by N.E.C. for proper conductor heat dissipation. The minimum spacing shall be maintained except where approaching and entering a box or panel. Conduit spacing shall also permit the flow of concrete between them.

9. Conduits embedded in concrete and terminating at motors or other equipment mounted on concrete bases shall be brought up to the equipment within the concrete base wherever possible.

10. All conduit boxes shall be so located that covers and openings are easily accessible. They shall be installed parallel with building lines, and where embedded shall be flush with the surface of the finished floor, wall, or ceiling. The Contractor shall remove and reset all boxes not properly installed or shifted out of line during concreting, whenever required or directed.

11. Conduits shall have long-sweep field bends wherever possible but shall in no case have smaller radii bends than are allowed by NEC or as recommended by the manufacturer whichever is the most stringent. All field bends shall be manufactured bends or made with a bending machine

or other approved device. Field bends shall not reduce the internal diameter of the conduit or injure the protective coatings. The bend shall be free of kinks, indentations, or flattened surfaces. Heat shall not be applied. Standard bends shall be used where conduits turn out of the concrete, at the conduit terminations, and at electrical equipment. Where conduits enter switchgear cubicles or other enclosures, they shall be located by template.

12. Where conduits cross expansion joints or contraction joints, they shall be installed perpendicular to the plane of the joint and shall have expansion fittings.

    Expansion fittings shall be as follows:

    i. Expansion fittings for exposed conduit shall have external bonding jumpers for ground continuity and shall be O.Z. Electrical Mfg. Co. Type Ex, Crouse-Hinds Type XJ, or equal.

    ii. Expansion fittings embedded in concrete shall be expansion deflection type consisting of molded neoprene sleeves with bonding jumpers passing through separate waterproof compartments, and two silicon bronze couplings. They shall permit a 3/4-inch expansion and contraction and a 3/4-inch deflection without deformation.

13. All conduits shall be installed as shown on the Drawings, with the exact location and routing to be determined in the field as required.

14. Cable runs shall be segregated so that no two of the following types of cable occupy the same conduit:

    i. 120/240/277V service cable.

    ii. 120V or 120/240V AC branch circuits, miscellaneous lighting and receptacle circuit cable; plug-in type.

    iii. Low voltage or current, DC, control cable.

    iv. Instrumentation cable.

15. Conduits penetrating walls, ceilings and floors of buildings and/or structures shall be sealed as shown on the Drawings. Sealing of conduit ID shall be by combination seal/drain fittings where shown on the Drawings. Sealing of conduit OD shall be by means of conduit sleeve and sealing compound. Sealing compound shall be of a type approved for the conditions and use.

C. Installation of Flexible Liquid-Tight Conduits

1. Flexible liquid-tight conduits shall be used for connection to motors and to any other equipment subject to vibration. Liquid-tight fittings and connectors shall be used in conjunction with the liquid-tight flexible conduit installation.

2. Flexible liquid-tight conduit lengths shall not exceed 6 feet.

D. Installation of EMT Conduits and Fittings

1. Installation of EMT shall conform to the applicable requirements of rigid steel conduits as previously specified.

2. EMT conduits shall be connected to the outlet boxes and panelboards by means of "gland" type connectors. Couplings between conduits shall be "gland" couplings. Conduits shall enter all couplings and connectors the full distance required and shall be securely held in place by a tightening of a "Locking Nut".

3. EMT shall not be embedded in concrete, used in hazardous locations where explosion-proof equipment is required, or buried in earth. Indentor or set screw type fittings shall not be used.

E. Installation of Rigid Nonmetallic (PVC) Conduits

1. Installation of rigid nonmetallic (PVC) conduit shall conform to applicable requirements of installation of rigid steel conduits as previously specified. Installation of rigid nonmetallic (PVC) conduit shall be as shown on the Drawings and shall be in accordance with the manufacturer's recommended procedures.

2. Installation shall meet the requirements of N.E.C. Article 347 Part A.

3. The conduit shall be cut square. All burrs shall be removed from the inside and outside of the conduit.

4. Bending:

    i. Bending of the conduit shall be made so that the conduit will not be damaged and the internal diameter of the conduit will not be effectively reduced. Bends shall be made with a standard PVC pipe bending equipment.

ii. The conduit section shall be heated evenly over the entire length of the bend. The use of torches or other flame-type devices will not be allowed. Sections showing evidence of scorching or discoloration shall not be acceptable for use on the project.

iii. The radius of the bend shall not be less than that shown in Table 346-10 of the National Electric Code.

5. Joints:

i. All joints shall be test mated without forcing. The socket depth of the fitting shall be marked on the outside of the conduit without scratching or damaging the surface. The conduit should enter the fitting for the full depth of the socket depth.

ii. Before applying cement, the surfaces to be joined shall be wiped clean and free of dirt, oil, grease or moisture. The solvent cement shall be applied to the conduit and fittings quickly, consistent with good workmanship. Under conditions of high humidity, a second full coating of cement shall be applied to the conduit before insertion.

iii. Immediately after applying the coat of cement to the conduit and fittings, the conduit shall be inserted into the fitting socket until it bottoms at the fitting shoulder. The conduit shall be turned 1/4 turn during insertion to distribute the cement evenly. Excess cement shall be wiped away from the outside of the joint.

iv. Newly assembled joints shall be handled carefully until the cement has gone through the set period. The recommended set periods are related to temperature as follows:

60 to 100 degrees F:	30 minutes
40 to 60 degrees F:	1 hour
20 to 40 degrees F:	2 hours
0 to 20 degrees F:	4 hours

6. Conduit Encased in Concrete:

i. Underground concrete-encased conduit shall be supported on plastic spacers specifically designed for the purpose spaced along the length of the run as recommended by the manufacturer. Spacing between raceways within a common duct dank shall be not less than 2 inches. Concrete cover overall shall not be less than 3 inches all around the encased run. Care shall be exercised during concrete placement to assure that there are no voids, so that spacers are undisturbed, and so that conduit joints stay secure and

unbroken. When pouring concrete, the concrete shall be deflected or diverted during placement to minimize the possible damage to or movement of the conduits.

ii. Conduit encased in concrete shall have steel reinforcing where installed below roadway or other paved vehicle areas (including shoulder) and the reinforcement shall extend not less than 5 feet additional from the edge of pavement unless otherwise indicated. Steel reinforcement shall not be less than No. 4 bars at corners and otherwise spaced on 12-inch centers, tied with No. 4 bars on 12-inch centers.

7. Expansion Fittings

i. Expansion fittings shall be provided for all runs crossing structural expansion joints.

ii. Expansion fittings, as specified herein, shall be installed in all raceway runs crossing structural expansion joints. Unless otherwise indicated or approved by the Owner's Representative expansion fittings shall include an 8-inch expansion fitting plus a deflection fitting allowing not less than a 3/4-inch deflection in any direction. The drawings shall be examined to determine complete extent of expansion joints.

iii. Concrete shall be formed around the expansion fittings in a manner to permit their movement as specified.

F. Stainless Steel Junction Boxes

1. Exposed junction boxes on structures shall be installed on 1/2 in. (13 mm) long stainless steel or brass spacers with the hinge on the side of the box and the cover lying in the vertical plane when closed. The exact orientation shall be as shown on the plans or as directed by the Engineer. Care shall be taken to assure proper orientation of mounting lugs.

   Field cut conduit openings shall be uniform and smooth. All burrs and rough edges shall be filed smooth prior to the installation of conduit(s) into the junction box. Field cut conduit openings shall be fitted with the appropriate conduit fittings and accessories.

3.03 PAINTING

(Not applicable in this Section).

PART 4 – MEASUREMENT AND PAYMENT

4.01 MEASUREMENT:

A. Measurement will not be made for the Work specified in this Section.

4.02 PAYMENT

A. Payment for the Work specified in this Section will be made at the lump sum prices for ELECTRICAL CONDUIT.

--- END OF SECTION ---

ELECTRIC SERVICE AND DISTRIBUTION
SECTION 26 20 00

PART 1 – GENERAL

1.01 SCOPE

This Section covers the requirements for the installation of the new service installation, disconnection of the existing electric service, and removal of the existing service installation, as specified in detail in other parts of this Section, other related Sections and/or as shown on the Drawings. The Contractor shall coordinate the requirements of the various parts of this Section of the Specifications with the Drawings when ordering materials or performing Work in conformance with the applicable provisions of this Section.

1.02 RELATED WORK

A. Section 26 05 00: Electrical Work

PART 2 – PRODUCTS

2.01 ELECTRICAL SERVICES

The Contractor's responsibility shall be to provide a new 120/240 volt, three (3) phase, four (4) wires, 60 Hertz service connection between the service pole and the new Master Control Panel (MCP) as specified in Part 3 of this Section and as shown on the Drawings. Commonwealth Edison will connect the service upon completion and inspection of this work. Upon commissioning of the new MCP and pumps, Commonwealth Edison Company will disconnect existing electrical power at the existing service.

2.02 UTILITY METERS

Furnished by Utility Company.

2.03 UTILITY METER BASE

Furnished by Contractor.

PART 3 - EXECUTION

3.01 GENERAL

A. The intent of these Specifications is to provide underground electrical service for the lift station. The underground electrical service shall be installed in accordance with the Drawings and Commonwealth Edison requirements.

B. The final, complete installation shall comply with all state and local statutory requirements having jurisdiction. The Contractor shall arrange for all necessary permits, pay all fees and arrange for all required inspections by local authorities. All work shall comply with the requirements of the National Electrical Code, all state codes and the codes and ordinances of the city or town in which the work is to be done.

C. Contact ComEd Customer Service (800-334-7661). Use meter serial number (230-188-563) to identify this location. The address on file with ComEd is 51 S Regency Drive, Arlington Heights, IL 60005. The Account number on file with ComEd is 247102222. This call should be made be at least 5 months in advance of the desired connection date. Notify ComEd of the intent to add a second meter to the existing account. The Contractor will need to provide a contact name and phone number. In addition, the Contractor will have to confirm that the location is accessible.

D. The ComEd service crew will contact the Contractor to schedule the connection. They typically call 5 days before the work will be performed. ComEd works between 8am to 2pm, Monday through Friday.

E. Once the work is complete, the Contractor should contact ComEd Customer Service again to schedule the disconnect the existing service.

PART 4 – MEASUREMENT AND PAYMENT

4.01 MEASUREMENT:

A. Measurement will not be made for the Work specified in this Section.

4.02 PAYMENT

A. Payment for the Work specified in this Section will be made at the lump sum prices for:

1. ELECTRIC SERVICE INSTALLATION

2. ELECTRIC SERVICE UTILITY FEE

a. Includes an allowance of $10,000 for the cost of work by Commonwealth Edison Company to provide the electrical service disconnect and reconnect. The final contract amount will be adjusted up or down in direct relation to the complete

and final billing from Commonwealth Edison Company for their work. At the discretion of the Owner, this fee may be paid directly to the utility company by the Owner in which case the Allowance shall be rebated to the Owner.

--- END OF SECTION ---

WIRING DEVICES AND LIGHTING FIXTURES
SECTION 26 27 26

PART 1 – GENERAL

1.01 DESCRIPTION

A. This section specifies the furnishing, installation and connection of wiring devices and lighting fixtures.

1.02 RELATED WORK:

A. Section 26 05 00: Electrical Work – General

B. Section 26 05 16: Electrical Wires and Cables

C. Section 26 05 26: Grounding

D. Section 26 05 33: Electrical Conduit

E. Section 33 09 30: Wastewater Pumping Control System

PART 2 - PRODUCTS

2.01 RECEPTACLES:

A. General: All receptacles shall be listed by Underwriters Laboratories, Inc.

1. Mounting straps shall be plated steel, with break-off plaster ears and shall include a self-grounding feature (this feature does not substitute for a grounding conductor terminated on grounding strap of device). Terminal screws shall be brass, brass plated or a copper alloy metal.

2. Receptacles shall be of a screw terminal type, “pressure type quick wire” terminations are not allowed.

B. Duplex receptacles shall be single phase, 20 ampere, 120 volts, 2-pole, 3-wire, and conform to the NEMA 5-20R configuration in NEMA WD 6. The duplex type shall have bussing break-off feature for two-circuit operation. The ungrounded pole of each receptacle shall be provided with a separate terminal.

1. Bodies shall be gray in color or as directed by Owner.

2. Ground Fault Interrupter Duplex Receptacles: Shall be an integral unit suitable for mounting in a standard outlet box.

a. Ground fault interrupter shall be commercial grade and consist of a differential current transformer, solid state sensing circuitry and a circuit interrupter switch. It shall be rated for operation on a 60 Hz, 120 volt, 20-ampere branch circuit. Device shall meet NEC requirements. Device shall have a minimum nominal tripping time of 1/30th of a second. Devices shall meet UL 943.

C. Weatherproof Receptacles: Shall consist of a duplex receptacle, mounted in box with a gasketed, weatherproof, cast metal cover plate and cap over each receptacle opening. The cap shall be permanently attached to the cover plate by a spring-hinged flap. The weatherproof integrity shall not be affected when heavy duty specification or plug caps are inserted. Cover plates on outlet boxes mounted flush in the wall shall be gasketed to the wall in a watertight manner.

2.02 TOGGLE SWITCHES

A. Toggle switches shall be totally enclosed tumbler type with bodies of phenolic compound. Toggle handles shall be gray in color or as directed by Owner.

1. Switches installed in hazardous areas shall be explosion proof type in accordance with the NEC and as shown on the drawings.

2. Shall be single unit toggle, butt contact, quiet AC type, heavy-duty general-purpose use with an integral self grounding mounting strap with break-off plasters ears and be of a screw terminal type.

3. Shall be color coded for current rating, listed by Underwriters Laboratories, Inc., and meet the requirements of NEMA WD 1, Heavy-Duty and UL 20.

4. Ratings:

    a. 120 volt circuits: 20 amperes at 120-277 volts AC.

5. The switches shall be mounted on the strike plate side of doors or as shown on plans.

6. Incorporate barriers between switches with multi-gang outlet boxes where required by the NEC.

7. All toggle switches shall be of the same manufacturer.

2.03 WALL PLATES:

A. Wall plates for switches and receptacles shall be type 302 stainless steel or as directed by Owner.

B. Standard NEMA design, so that products of different manufacturers will be interchangeable. Dimensions for openings in wall plates shall be accordance with NEMA WD1.

C. For receptacles or switches mounted adjacent to each other, wall plates shall be common for each group of receptacles or switches.

D. Wall plates for data, telephone or other communication outlets shall be as specified in the associated specification.

E. Surface mounted boxes, NEMA1, shall be industrial grade raised galvanized steel covers. In shop areas all receptacles shall be dust proof and or waterproof where applicable.

F. Waterproof device covers shall be cast iron, 4-corner screw type, for FS and FD type mounting. Device covers shall be zinc galvanized finish. Weatherproof covers shall be lockable.

2.04 LIGHT FIXTURES

A. Valve vault light fixture shall be of LED type, classified for hazardous locations.

B. The LED unit shall be corrosion-resistant.

C. The fixture shall be an enclosed and gasketed type designed to exclude dirt, moisture and corrosive vapors from the interior of the luminaires and conduit system. A fluted globe and guard assembly shall be designed for installation or removal as a unit for ease of relamping.

D. The finish shall be epoxy powder coated bodies and guards.

E. The LED lighting engine and driver shall be high output LEDs, 45 watts, 50k hours to 70% initial lumens, 5000K color temperature, CRI 69 or greater, power factor greater than 0.90, THD <20% at full load, FCC 47CFR Part 15 Class B Compliant, thermal range 40ºC to 55ºC.

F. Input voltage shall be 120 V.

G. Fixture shall be ceiling or wall mounted with cast junction box and globe guard.

H. Manufacturer shall be Hubbell HLEML series, or approved equal.

PART 3 - EXECUTION

3.01 WIRING DEVICES INSTALLATION

A. Ground terminal of each receptacle shall be bonded to the outlet box with an approved green bonding jumper, and also connected to the green equipment grounding conductor.

B. General: Devices shall be of the type specified herein. All devices shall be installed with “pigtailed” leads from the outlet box. No device shall be used in the “feed through” application. Screw terminals shall be used to connect all devices to the circuit and shall be grounded by means of a ground wire where grounding terminals are provided in the device.

C. Installation: Devices and plates shall be installed in a “plumb” condition and must be flush with the finish surface of the wall where boxes are recessed.

D. Mounting heights: All control and convenience devices shall be mounted between 36 and 48 inches above finish floor; mounting heights indicated on plans shall have precedence.

3.02 LIGHTING FIXTURES INSTALLATION

A. Installation shall be in accordance with the NEC and as shown as on the drawings.

B. Plan and layout work to avoid interferences with other Contract work. If unavoidable conflict, notify the Owners Representative.

C. Conduit and wire from the fixtures, switches, and receptacles to the lighting panel shall be in accordance with the NEC.

D. Connect fixture to junction box using conduit with a temperature rating equal to that of the fixture.

E. Remove labels and marks, except the UL label, from exposed parts of the fixtures.

F. Clean fixtures.

G. Align and direct fixture to illuminate entire valve vault floor.

H. Directly and rigidly mount on support structures.

I. Unless otherwise noted, do not use fixtures to support conduit system.

J. Treat weld area with rust-resistant primer and finish paint where brackets or supports for lighting fixtures are welded to steel members.

PART 4 – MEASUREMENT AND PAYMENT

Work specified in this Section will not be measured or paid for as a separate item, but shall be considered as included in the lump sum unit price for ELECTRICAL WIRES AND CABLES.

--- END OF SECTION ---

NATURAL GAS GENERATOR
SECTION 26 36 20

PART 1 – GENERAL

1.01 SCOPE

A. Description

This Section covers the engine generator set to be furnished, installed and tested as shown in the Drawings and as specified herein. All related accessories where required, but not specifically provided for in these Specifications, shall be included under this Section of Work.

1.02 RELATED WORK

A. Section 26 05 00: Electrical Work – General
B. Section 26 05 16: Electric Wires and Cables
C. Section 26 05 26: Grounding
D. Section 26 05 33: Electrical Conduit
E. Section 26 20 00: Electric Service Installation
F. Section 26 36 23: Automatic Transfer Switch
G. Section 33 09 30: Wastewater Pumping Control System

1.03 QUALITY ASSURANCE

A. The power system shall be furnished by a single manufacturer who shall be responsible for the design, coordination, and testing of the complete system. The entire system shall be installed as shown on the plans, drawings, and specifications herein.

B. Acceptable Manufacturers

Generator and ATS is to be supplied by the same manufacturer. Acceptable generator manufacturers are:

1. Kohler
2. Approved Equal

C. Qualifications

1. The equipment shall be produced by a manufacturer who is ISO 9001 certified for the design, development, production and service of its complete product line.

2. The power system shall be produced by a manufacturer who has produced this type of equipment for a period of at least 10 years and who maintains a service organization available twenty-four hours a day throughout the year.

D. Applicable Standards

The generator set shall conform to the requirements of the following codes and standards:

1. IEEE446 Recommended Practice for Emergency and Standby Power Systems for Commercial and Industrial Applications.

2. NFPA 37 (Standard for the Installation and Use of Stationary Combustion Engines and Gas Turbines).

3. NFPA 70, National Electrical Code, Equipment shall be suitable for use in systems in compliance to Article 700, 701, and 702.

4. NFPA 110, Emergency and Standby Power Systems. The generator set shall meet all requirements for Level 1 systems. Level 1 prototype tests required by this standard shall have been performed on a complete and functional unit. Component level type tests will not substitute for this requirement.

1.04 SITE CONDITIONS

A. Ambient Conditions:

1. Engine- generator set shall operate in the following conditions without any damage to the unit or its loads.

i. Ambient Temperature: 77 °F
ii. Altitude: 675 ft
iii. Relative Humidity: 0-95%

1.05 SUBMITTALS

The Contractor shall submit to the Owner's Representative for review drawings, product specifications and descriptions including control schematic diagrams, wiring connection diagrams, complete ratings, short circuit ratings together with certified test performed on similar equipment; installation instructions, operating and maintenance manuals, and field check-out, start-up and testing procedures specified in 01 33 00 for all equipment furnished.

PART 2 - PRODUCT

2.01 MANUFACTURERS

A. Manufacturers: The basis for this specification is Kohler Power Systems, approved equals may be considered if equipment performance is shown to meet the requirements herein.

2.02 ENGINE-GENERATOR SET

A. Factory-assembled and tested, natural gas engine-generator set, Kohler model 25CCL with a 4D8.3 alternator.

B. Mounting Frame: Maintain alignment of mounted components without depending on concrete foundation; and have lifting attachments.

1. Rigging Information: Indicate location of each lifting attachment, generator-set center of gravity, and total package weight in submittal drawings.

C. Capacities and Characteristics:

1. Power Output Ratings: Electrical output power rating for Standby operation of not less than 31.25 kVA and 25 kW when operating at 120/240 volts, 60 Hz, 0.8 power factor. The generator set shall be capable of a 130°C Standby rating while operating in an ambient condition of less than or equal to 77 °F and a maximum elevation of 675 ft above sea level. The standby rating shall be available for the duration of the outage.

2. Nameplates: For each major system component to identify manufacturer's name and address, and model and serial number of component. The engine-generator nameplate shall include information of the power output rating of the equipment.

D. Generator-Set Performance:

1. Steady-State Voltage Operational Bandwidth: 1.0 percent of rated output voltage from no load to full load.

2. Transient Voltage Performance: Not more than 8 percent variation for 50 percent step-load increase or decrease. Voltage shall recover and remain within the steady-state operating band within 3 seconds. On application of a 100% load step the generator set shall recover to stable voltage within 10 seconds.

3. Steady-State Frequency Operational Bandwidth: 0.5 percent of rated frequency from no load to full load.

4. Steady-State Frequency Stability: When system is operating at any constant load within the rated load, there shall be no random speed variations outside the steady-state operational band and no hunting or surging of speed.

5. Transient Frequency Performance: Not more than 4 percent variation for 50 percent step-load increase or decrease. Frequency shall recover and remain within the steady-state operating band within 5 seconds. On application of a 100% load step the generator set shall recover to stable frequency within 10 seconds.

6. Output Waveform: At full load, harmonic content measured line to line or line to neutral shall not exceed 5 percent total and 3 percent for any single harmonic. Telephone influence factor, determined according to NEMA MG 1, shall not exceed 50.

7. Sustained Short-Circuit Current: For a 3-phase, bolted short circuit at system output terminals, system shall supply a minimum of 300 percent of rated full-load current for not less than 8 seconds without damage to generator system components. For a 1-phase, bolted short circuit at system output terminals, system shall regulate both voltage and current to prevent over-voltage conditions on the non-faulted phases.

8. Start Time: Comply with NFPA 110, Level 1, Type 10, system requirements.

9. Ambient Condition Performance: Engine generator shall be designed to allow operation at full rated load in an ambient temperature under site conditions, based on highest ambient condition. Ambient temperature shall be as measured at the air inlet to the engine generator for enclosed units, and at the control of the engine generator for machines installed in equipment rooms.

2.03 ENGINE

A. Fuel: Natural Gas

B. Rated Engine Speed: 1800RPM.

C. Lubrication System: The following items are mounted on engine or skid:

1. Lube oil pump: shall be positive displacement, mechanical, full pressure pump.

2. Filter and Strainer: Provided by the engine manufacturer of record to provide adequate filtration for the prime mover to be used.

3. Crankcase Drain: Arranged for complete gravity drainage to an easily removable container with no disassembly and without use of pumps, siphons, special tools, or appliances.

D. Engine Fuel System: The engine fuel system shall be installed in strict compliance to the engine manufacturer's instructions

E. Governor: Adjustable isochronous, with speed sensing. The governing system dynamic capabilities shall be controlled as a function of engine coolant temperature to provide fast, stable operation at varying engine operating temperature conditions. The control system shall actively control the fuel rate as appropriate to the state of the engine generator. Fuel rate shall be regulated as a function of starting, accelerating to start disconnect speed, accelerating to rated speed, and operating in various isochronous states.

F. Cooling System: Closed loop, liquid cooled

1. The generator set manufacturer shall provide prototype test data for the specific hardware proposed demonstrating that the machine will operate at rated standby load in an outdoor ambient condition of 40 deg C.

2. Coolant: Solution of 50 percent ethylene-glycol-based antifreeze and 50 percent water, with anticorrosion additives as recommended by engine manufacturer.

3. Size of Radiator overflow tank: Adequate to contain expansion of total system coolant from cold start to 110 percent load condition.

4. Expansion Tank: Constructed of welded steel plate and rated to withstand maximum closed-loop coolant system pressure for engine used. Equip with gage glass and petcock.

5. Temperature Control: Self-contained, thermostatic-control valve modulates coolant flow automatically to maintain optimum constant coolant temperature as recommended by engine manufacturer.

6. Duct Flange: Generator sets installed indoors shall be provided with a flexible radiator duct adapter flange.

G. Muffler/Silencer: Selected with performance as required to meet sound requirements of the application, sized as recommended by engine manufacturer and selected with exhaust piping system to not exceed engine manufacturer's engine backpressure requirements. For generator sets with outdoor enclosures the silencer shall be inside the enclosure.

H. Air-Intake Filter: Engine-mounted air cleaner with replaceable dry-filter element and restriction indicator.

I. Starting System: 12 or 24V, as recommended by the engine manufacturer; electric, with negative ground.

1. Components: Sized so they will not be damaged during a full engine-cranking cycle with ambient temperature at maximum specified in Part 1 "Project Conditions" Article.

2. Cranking Cycle: As required by NFPA 110 for level 1 systems.

3. Battery Cable: Size as recommended by engine manufacturer for cable length as required. Include required interconnecting conductors and connection accessories.

4. Battery Compartment: Factory fabricated of metal with acid-resistant finish.

5. Battery-Charging Alternator: Factory mounted on engine with solid-state voltage regulation. The battery charging alternator shall have sufficient capacity to recharge the batteries with all parasitic loads connected within 4 hours after a normal engine starting sequence.

6. Battery Chargers: Unit shall comply with UL 1236, provide fully regulated, constant voltage, current limited, battery charger for each battery bank. It will include the following features:

a. Operation: Equalizing-charging rate based on generator set manufacturer’s recommendations shall be initiated automatically after battery has lost charge until an adjustable equalizing voltage is achieved at battery terminals. Unit shall then be automatically switched to a lower float-charging mode and shall continue to operate in that mode until battery is discharged again.

b. Automatic Temperature Compensation: Adjust float and equalize voltages for variations in ambient temperature from minus 20 deg C to plus 40 deg C to prevent overcharging at high temperatures and undercharging at low temperatures.

c. Automatic Voltage Regulation: Maintain constant output voltage regardless of input voltage variations up to plus or minus 10 percent.

d. Safety Functions: Sense abnormally low battery voltage and close contacts providing low battery voltage indication on control and monitoring panel. Sense high battery voltage and loss of ac input or dc output of battery charger. Either condition shall close contacts that provide a battery-charger malfunction indication at system control and monitoring panel.

e. Provide LED indication of general charger condition, including charging, faults, and modes. Provide a LCD display to indicate charge rate and battery voltage. Charger shall provide relay contacts for fault conditions as required by NFPA110.

f. Enclosure and Mounting: NEMA, Type 1, wall-mounted cabinet.

2.04 CONTROL AND MONITORING

A. Engine generator control shall be microprocessor based and provide automatic starting, monitoring, protection and control functions for the unit.

B. Automatic Starting System Sequence of Operation: When mode-selector switch on the control and monitoring panel is in the automatic position, remote-control contacts in one or more separate automatic transfer switches initiate starting and stopping of generator set. When mode-selector switch is switched to the on position, generator set starts. The off position of same switch initiates generator-set shutdown. (Switches with different configurations but equal functions are acceptable.) When generator set is running, specified system or equipment failures or derangements automatically shut down generator set and initiate alarms. Operation of the local (generator set-mounted) and/or remote emergency-stop switch also shuts down generator set.

C. Manual Starting System Sequence of Operation: Switching on-off switch on the generator control panel to the on position starts generator set. The off position of same switch initiates generator-set shutdown. When generator set is running, specified system or equipment failures or derangements automatically shut down generator set and initiate alarms. Operation of the local (generator set-mounted) and/or remote emergency-stop switch also shuts down generator set.

D. Configuration: Operating and safety indications, protective devices, system controls, engine gages and associated equipment shall be grouped in a

common control and monitoring panel. Mounting method shall isolate the control panel from generator-set vibration. AC output power circuit breakers and other output power equipment shall not be mounted in the control enclosure.

E. Indicating and Protective Devices and Controls: As required by NFPA 110 for Level 1 system, and the following:

1. AC voltmeter (3-phase, line to line and line to neutral values).
2. AC ammeter (3-phases).
3. AC frequency meter.
4. AC kVA output (total and for each phase). Display shall indicate power flow direction.
5. Ammeter-voltmeter displays shall simultaneously display conditions for all three phases.
6. Emergency Stop Switch: Switch shall be a red “mushroom head” pushbutton device complete with lock-out/tag-out provisions. Depressing switch shall cause the generator set to immediately stop the generator set and prevent it from operating.
7. Fault Reset Switch: Supply a dedicated control switch to reset/clear fault conditions.
8. DC voltmeter (alternator battery charging).
9. Engine-coolant temperature gage.
10. Engine lubricating-oil pressure gage.
11. Running-time meter.
12. Generator-voltage and frequency digital raise/lower switches. Rheostats for these functions are not acceptable. The control shall adjustment of these parameters in a range of plus or minus 5% of the voltage and frequency operating set point (not nominal voltage and frequency values.)
13. AC Protective Equipment: The control system shall include over/under voltage, over current, short circuit, loss of voltage reference, and over excitation shut down protection. There shall be an overload warning, and overcurrent warning alarm.

14. Status LED indicating lamps to indicate remote start signal present at the control, existing alarm condition, not in auto, and generator set running.

15. A graphical display panel with appropriate navigation devices shall be provided to view all information noted above, as well as all engine status and alarm/shutdown conditions (including those from an integrated engine emission control system). The display shall also include integrated provisions for adjustment of the gain and stability settings for the governing and voltage regulation systems.

16. Panel lighting system to allow viewing and operation of the control when the generator room or enclosure is not lighted.

17. DC control Power Monitoring: The control system shall continuously monitor DC power supply to the control, and annunciate low or high voltage conditions. It shall also provide an alarm indicating imminent failure of the battery bank based on degraded voltage recover on loading (engine cranking).

F. Remote Emergency-Stop Switch: Flush; wall mounted, unless otherwise indicated; and labeled. Push button shall be protected from accidental operation.

G. Common Remote Audible Alarm: Comply with NFPA 110 requirements for Level 1 systems. Include necessary contacts and terminals in control and monitoring panel.

1. Overcrank shutdown.

2. Coolant low-temperature alarm.

3. Control switch not in auto position.

4. Battery-charger malfunction alarm.

5. Battery low-voltage alarm.

H. Remote Alarm Annunciator: Comply with NFPA 110. An LED labeled with proper alarm conditions shall identify each alarm event and a common audible signal shall sound for each alarm condition.

2.05 GENERATOR, EXCITER, AND VOLTAGE REGULATOR

A. The alternator shall be salient-pole, brushless, 2/3-pitch, with 4 bus bar provision for external connections, self-ventilated, with drip-proof construction and

amortisseur rotor windings, and skewed for smooth voltage waveform. The ratings shall meet the NEMA standard (MG1-32.40) temperature rise limits. The insulation shall be class H per UL1446 and the varnish shall be a vacuum pressure impregnated, fungus resistant epoxy. Temperature rise of the rotor and stator shall be limited to 130°C Standby @40C. The PMG based excitation system shall be of brushless construction controlled by a digital, three phase sensing, solid- state, voltage regulator. The AVR shall be capable of proper operation under severe nonlinear loads and provide individual adjustments for voltage range, stability and volts-per-hertz operations. The AVR shall be protected from the environment by conformal coating. The waveform harmonic distortion shall not exceed 5% total RMS measured line-to-line at full rated load. The TIF factor shall not exceed 50.

B. The alternator shall have a maintenance-free bearing, designed for 40,000 hour B10 life. The alternator shall be directly connected to the flywheel housing with a semi-flexible coupling between the rotor and the flywheel.

C. The generator shall be inherently capable of sustaining at least 300% of rated current for at least 10 seconds under a 3-phase symmetrical short circuit without the addition of separate current-support devices.

D. Motor starting performance and voltage dip determinations shall be based on the complete generator set. The generator set shall be capable of supplying 90.00 LRKVA for starting motor loads with a maximum instantaneous voltage dip of 35%, as measured by a digital RMS transient recorder in accordance with IEEE Standard 115. Motor starting performance and voltage dip determination that does not account for all components affecting total voltage dip, i.e., engine, alternator, voltage regulator, and governor will not be acceptable. As such, the generator set shall be prototype tested to optimize and determine performance as a generator set system.

2.06 OUTDOOR GENERATOR-SET ENCLOSURE

A. Description: Weather Steel housing. Multiple panels shall be lockable and provide adequate access to components requiring maintenance. Instruments, control, and battery system shall be mounted within enclosure.

B. Construction:

1. Hinged Doors: With padlocking provisions. Restraint/Hold back hardware to prevent door to keep door open at 180 degrees during maintenance. Rain lips over all doors.

2. Exhaust System:

a. Muffler Location: Within enclosure.

3. Hardware: All hardware and hinges shall be stainless steel.

4. Mounting Base: Suitable for mounting on sub-base fuel tank.

5. A weather protective enclosure shall be provided which allows the generator set to operate at full rated load with a static pressure drop equal to or less than 0.5 inches of water.

C. Engine Cooling Airflow through Enclosure: Housing shall provide ample airflow for engine generator operation at rated load in an ambient temperature of 40 deg C.

1. Louvers: Fixed-engine, cooling-air inlet and discharge.

D. Sound Performance: Reduce the sound level of the engine generator while operating at full rated load to a maximum of 72 dBA measured at any location 23 ft from the engine generator in a free field environment.

E. Site Provisions:

1. Lifting: Complete assembly of engine generator, enclosure, and sub base fuel tank (when used) shall be designed to be lifted into place as a single unit, using spreader bars.

2.07 VIBRATION ISOLATION DEVICES

A. Vibration Isolation: Generators installed on grade shall be provided with elastomeric isolator pads integral to the generator, unless the engine manufacturer requires use of spring isolation.

2.08 FINISHES

A. Components: Powder-coated and baked over corrosion-resistant pretreatment and compatible primer. Manufacturer’s standard color or as directed on the drawings.

2.09 NATURAL GAS SERVICE

A. Provide service per detail “Natural Gas Fuel Piping Detail.”

B. Provide fuel lockout solenoid and fuel regulator, based on manufacturers operating pressure, between 7”-14” H2O.

C. Provide flexible supply and return line fittings and all connections for connecting fuel system to the engine in compliance with applicable codes and regulations.

All fuel piping shall be pressure tested for minimum 2 hours. Primary regulator and flexible fuel hose with stainless steel over-braid shall be provided by the generator supplier.

D. The Contractor shall coordinate with the local utility gas provider for new gas service and associated regulator. Piping shall be compliant with utility company installation requirements and NFPA 110. Provide a gas meter and regulator for the generator service. Meter and regulator serving generator be connected on the supply side of the main gas shutoff valve to allow for emergency response team to shut gas service.

PART 3 - EXECUTION

3.01 FACTORY TEST AND INSPECTION

A. Each item of equipment shall be shop-assembled and tested in accordance with the manufacturer's standard procedure. Monitor and control devices shall be functionally tested to verify correct operation and that all parts function properly.

3.02 INSTALLATION AND TESTING

A. The Contractor shall install the equipment as shown on the Drawings in accordance with the manufacturer's recommendations. The Contractor shall adjust and calibrate the equipment after all connections are made.

B. All equipment and components shall be tested by operating them a reasonable number of times to demonstrate their proper and safe installation and operation. To determine what constitutes a safe and proper installation, these Specifications, manufacturer's recommendations, guidelines set by NEC, IEEE, ANSI, OSHA, etc. shall be the norm.

C. Operational tests shall be performed to verify correctness of operation, connections, and interconnections with other equipment.

D. After the equipment has been made ready for operation, the Contractor shall perform field test of the engine generator. The Contractor shall furnish the services of a factory representative who shall provide final checkout of the entire installation covered by these Contract Documents and supervise the initial start-up and test of the engine generator. The tests shall include load, phase sequence, and utility power tests. Field testing shall include a simulated power failure and load transfer.

E. The loads shall be operated continuously for a period of not less than 30 minutes or as otherwise mutually agreed upon between Owner, Owner’s Representative and Contractor.

PART 4 - MEASUREMENT AND PAYMENT

4.01 MEASUREMENT:

A. Measurement will not be made for the Work specified in this Section.

4.02 PAYMENT

A. Payment for the Work specified in this Section will be made at the lump sum prices for NATURAL GAS ENGINE GENERATOR.

--- END OF SECTION ---

AUTOMATIC TRANSFER SWITCH
SECTION 26 36 23

PART 1 – GENERAL

1.01 SCOPE

A. Description

This Section covers the automatic transfer switches (ATS) to be furnished, installed and tested as shown in the Drawings and as specified herein. All related accessories where required, but not specifically provided for in these Specifications, shall be included under this Section of Work.

1.02 RELATED WORK

A. Section 26 05 00: Electrical Work – General
B. Section 26 05 16: Electric Wires and Cables
C. Section 26 05 26: Grounding
D. Section 26 05 33: Electrical Conduit
E. Section 26 20 00: Service and Distribution
F. Section 33 09 30: Wastewater Pumping Control System

1.03 QUALITY ASSURANCE

A. Acceptable Manufacturers

ATS is to be supplied by the manufacturer of the proposed on-site generator. Acceptable generator manufacturers are:

1. Kohler
2. Approved Equal

B. Applicable Standards

All Work shall conform to the applicable provision of the codes, standards and Specifications, as specified herein and the following:

Name	Abbreviation
National Electrical Code	NEC
National Electrical Manufacturers Assoc.	NEMA
Underwriters Laboratories	UL

1.04 SUBMITTALS

The Contractor shall submit to the Owner's Representative for review drawings, product specifications and descriptions including control schematic diagrams, wiring connection diagrams, complete ratings, short circuit ratings together with certified test performed on similar equipment; installation instructions, operating and maintenance manuals, and field check-out, start-up and testing procedures specified in 01 33 00 for all equipment furnished.

PART 2 - PRODUCT

2.01 GENERAL

A. The automatic transfer switch shall be furnished complete with all necessary sensing relays for each phase of the normal power sources and the standby power source plus all necessary control relays and contacts to transfer the load from the normal power source to the emergency standby power source. Sensing and control logic shall be solid state and mounted on plug-in printed circuit boards. Printed circuit boards shall be keyed to prevent incorrect installation. Interfacing relays shall be industrial control grade plug in type with dust covers. The ATS shall be provided with normal and emergency switch position contacts for use in signaling "normal" or "emergency" status.

B. The automatic transfer switch shall be listed by Underwriters Laboratory, Standard 1008.

C. The ATS shall be of open construction, suitable for mounting by the Wastewater Pumping Control System supplier in the Wastewater Pumping Control System specified in Section 33 09 30 and as shown on the Drawings.

2.02 RATING AND OPERATION

The automatic transfer switch designated ATS shall be rated for normal and emergency sources and shall have full 600V insulation on all main contacts and current carrying parts. The automatic transfer switch shall be a 3-pole, 4-wire type with solid neutral and shall be rated 100A continuous current for use on a 120/240V, 60Hz system, and shall be capable of withstanding 22,000A, interrupting/fault close RMS, symmetrical three phase short circuit current for 3 cycles without contact damage or contact separation.

2.03 DETAILS OF CONSTRUCTION

A. Construction

Automatic transfer switch shall be 3-pole, 4-wire unit with solid neutral. Normal and emergency contacts shall be mechanically interlocked by the operating linkage when in the open or closed position. All parts of the mechanical driving system and mechanical interlocks shall be electrically isolated and at ground potential.

B. Load Transfer

There shall be three normal line voltage sensing relays and sequencing controls such that a loss of power in the normal incoming power line below 75% of rated voltage, loss of phase, or voltage imbalance condition of the normal feed will initiate change over to the alternative (secondary) power source, after an adjustable time delay to ignore momentary outages. Upon proper voltage level from the alternative (secondary) power source, the load shall be transferred to the secondary power source. Upon restoration of normal voltage on the utility incoming power line, the transfer panel, after an adjustable time delay, shall transfer load back to Normal Line.

C. Current Carrying Contacts, Coils and Relays

Current carrying contacts, coils and relays shall be readily accessible from the front for maintenance and inspection as individual units. Replacement of any part shall not require removal of the switch panel from the enclosure, or disconnecting the operating linkage or power conductors.

D. Indicating Lights

Indicating lights shall be identified with nameplates mounted on the front of the cabinet door.

E. Test Switch

Test switch shall be provided to simulate normal power failure.

F. Inphase Monitoring

Bidirectional Inphase Transfer System to control transfer operation between live sources. Shall provide variable transfer initiation which limits motor inrush current to magnitude or normal starting current ignoring unequal source voltages and wave shape distortion from solid state controlled loads. Operation shall be over a frequency difference range of +/-2.0 Hz. If voltage of the source carrying load drops below 70%, the inphase function shall be automatically bypassed.

G. Accessories

Accessories shall be provided as follows:

1. Mounted green and red pilot lights for indicating switch in normal and emergency positions, including fuses and auxiliary contacts, rated 10 amps 250 VAC.

2. Individually mounted amber pilot lights for indicating when normal and emergency source voltages are available, including fuses and auxiliary contacts.

3. One normally open auxiliary contact which closes when an abnormal condition is detected on the normal source feed and/or the normal source is de-energized.

4. Ground Bus.

5. Two position test switch. Maintained contact for auto and momentary contact for test.

6. Adjustable close differential relays.

7. Adjustable time delay to emergency to delay transfer to emergency for 0-5 minutes.

8. Adjustable time delay on restoration to delay retransfer to normal for 0-30 minutes.

9. Adjustable time delay to override momentary normal source outages to delay all transfer switch signals for 0.5 to 10 seconds.

10. Normally open auxiliary contact for initiating change over to alternative (secondary) power source. Contact shall close upon loss of normal power. The contact shall remain closed until such time as normal power is restored and the automatic transfer switch has transferred back to the normal position.

11. Terminal boards for control wiring connection.

12. Exercise timer with minimum 30 minutes (adjustable) once per week.

PART 3 - EXECUTION

3.01 FACTORY TEST AND INSPECTION

Each item of equipment shall be shop-assembled and tested in accordance with the manufacturer's standard procedure. Monitor and control devices shall be functionally tested to verify correct operation and that all parts function properly.

3.02 INSTALLATION AND TESTING

A. The Contractor shall install the equipment as shown on the Drawings in accordance with the manufacturer's recommendations. The Contractor shall adjust and calibrate the equipment after all connections are made.

B. All equipment and components shall be tested by operating them a reasonable number of times to demonstrate their proper and safe installation and operation. To determine what constitutes a safe and proper installation, these Specifications, manufacturer's recommendations, guidelines set by NEC, IEEE, ANSI, OSHA, etc. shall be the norm.

C. Operational tests shall be performed to verify correctness of operation, connections, and interconnections with other equipment.

D. After the equipment has been made ready for operation, the Contractor shall perform field test on the automatic transfer switch. The Contractor shall furnish the services of a factory representative who shall provide final checkout of the entire installation covered by these Contract Documents and supervise the initial start-up and test of the automatic transfer switch. The tests shall include load, phase sequence, and utility power tests. Field testing shall include a simulated power failure and load transfer.

E. The loads shall be operated continuously for a period of not less than 30 minutes or as otherwise mutually agreed upon between Owner, Owner’s Representative and Contractor.

3.03 PAINTING

A. All equipment specified in this Section shall be shop-painted with the manufacturer's standard finish. All equipment specified in this Section shall be field-painted as directed by the Owner.

B. The Contractor shall be responsible for coordination of the compatibility between the manufacturer's standard finish and the field-paint specified.

PART 4 - MEASUREMENT AND PAYMENT

4.01 MEASUREMENT:

A. Measurement will not be made for the Work specified in this Section.

4.02 PAYMENT

A. Work specified in this Section will not be paid for as a separate item, but shall be considered as included in lump sum unit price for WASTEWATER PUMPING CONTROL SYSTEM in Section 33 09 30.

--- END OF SECTION ---

EARTH EXCAVATION, BACKFILL, FILL AND GRADING
SECTION 31 23 16

PART 1 – GENERAL

1.01 DESCRIPTION

A. Perform the following earth excavation, backfill, fill and grading as indicated or specified:

1. Make excavations to accommodate piping, conduits, foundations and other structures.

2. Provide materials for backfilling excavations and constructing embankments and fills as indicated and specified.

3. Construct embankments of compacted materials.

4. Grade surfaces to meet finished grades indicated.

5. Immediately notify the Engineer if suspected hazardous materials are encountered and cease operations in that part of work.

6. Remove boulders within the excavation limits.

1.02 REFERENCES

A. American Society for Testing and Materials (ASTM) Publications:

1. C33: Specification for Concrete Aggregates.
2. C136: Sieve Analysis of Fine and Coarse Aggregates.
3. D421: Practice for Dry Preparation of Soil Samples for Particle Size Analysis and Determination of Soil Constants.
4. D422: Test Method for Particle-Size Analysis of Soils.
5. D1140: Test Method for Amount of Material in Soils Finer than the No. 200 (75 Fm) Sieve.
6. D1556: Test Method for Density and Unit Weight of Soil in Place by the Sand-Cone Method.
7. D1557: Test Method for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lb/ft3 (600 kN-m/m3)).
8. D2167: Test Method for Density and Unit Weight of Soil in Place by the Rubber Balloon Method.)).
9. D2922: Test Method for Density of Soil and Soil-Aggregate in Place by Nuclear Methods. (Shallow Depth).
10. D3017: Test Method for Water Content of Soil and Rock in Place by Nuclear Methods (Shallow Depth).

11. D4318: Test Method for Liquid Limit, Plastic Limit and Plasticity Index of Soils.
12. D4718: Practice for Correction of Unit Weight and Water Content for Soils Containing Oversized Particles.
13. D4944: Test Method for Field Determination of Water (Moisture) Content of Soil by the Calcium Carbide Pressure Tester Method.
14. D4959: Test Method for Field Determination of Water (Moisture) Content of Soil by Direct Heating Method.
15. Test Method for Rapid Determination of Percent Compaction.

B. Occupational Safety and Health Administration (OSHA) Standards and Regulations contained in Title 29: Subpart P - Excavations, Trenching and Shoring.

1.03 DEFINITIONS

A. Percentage of compaction is defined as the ratio of the field dry density, as determined by ASTM D1556 to the maximum dry density determined by ASTM D1557 Procedure C, multiplied by 100.

B. Proof Roll: Compaction with a minimum of 4 passes of a vibratory steel drum or rubber tire roller. Vibratory plate compactors shall be used in small areas where vibratory steel drum or rubber tire roller cannot be used.

C. Acceptable Material: Material which does not contain organic silt or organic clay, peat, vegetation, wood or roots, stones or rock fragments over 6-inch [15 cm] in diameter, porous biodegradable matter, loose or soft fill, excavated pavement, construction debris, or refuse. Stones or rock fragments shall not exceed 40 percent by weight of the backfill material.

D. Unacceptable Materials: Materials does not comply with the requirements for the acceptable material or which cannot be compacted to the specified or indicated density.

1.04 SUBMITTALS

A. Submit the following in accordance with Section 01 33 00 - Submittals:

1. Qualifications of the Contractor’s Independent Testing Laboratory as specified in Paragraph 1.05 I, four (4) weeks prior to the execution of any earth excavation, backfilling, filling, or compaction process.

2. Submit an excavation, backfilling, and filling plan at least two weeks prior to start of any earth moving activities. The review will be only for the information of the Owner and third parties for an overall understanding of the project relating to access, maintenance of existing facilities and proper

utilization of the site. The Contractor shall remain responsible for the adequacy and safety of the means, methods and sequencing of construction. The plan shall include, but not be limited to the following items:

a. Detailed sequence of work.
b. General description of construction methods.
c. Numbers, types, and sizes of equipment proposed to perform excavation and compaction.
d. Details of dust control measures.
e. Proposed locations of stockpiled excavation and/or backfill materials.
f. Proposed surplus excavated material off-site disposal areas and required permits.
g. Details of erosion and sedimentation control measures which will prevent erosion and sedimentation during the earth moving activities.

3. Laboratory testing results of gradation and moisture-density relationship. Submittal shall include specific location of the source and the date when sample was taken.

4. During Construction, submit written confirmation of fill lift thickness, in-place soil moisture content, and percentage of compaction to the Engineer before placing the next lift or constructing foundations.

1.05 QUALITY ASSURANCE AND CONTROL

A. Provide in accordance with Section 01 43 00 and as specified.

B. The Contractor shall be solely responsible for making all excavations in a safe manner. All excavation, trenching, and related sheeting, bracing, etc. shall comply with the requirements of OSHA excavation safety standards (29 CFR Part 1926 Subpart P) and State requirements. Where conflict between OSHA and State regulations exists, the more stringent requirements shall apply.

C. Do not excavate, construct embankments, or fill until all the required submittals have been reviewed by the Engineer.

D. Formulate excavation, backfilling, and filling schedule and procedures to eliminate possibility of undermining or disturbing foundations of partially and completed structures, pipelines and embankments or existing structures and pipelines.

E. Field Testing and Inspections:

1. By Contractor’s independent testing laboratory, acceptable to the Engineer, at Contractor's expense as specified in Paragraph 1.06 G.

2. Location of tests mutually acceptable to testing laboratory and the Engineer or as directed by the Engineer.

3. In the event compacted material does not meet specified in-place density, re-compact material and retest this area until specified results are obtained at no additional to the Owner.

4. Contractor’s testing laboratory to perform inspection at least once daily to confirm lift thickness and compaction effort for entire fill area.

5. Owner will retain the services of an independent testing laboratory to conduct confirmatory testing and inspection.

F. Methods of Field Testing:

1. In-Place Density: ASTM D1556, ASTM D2167, or ASTM D2922.

2. In-Place Moisture Content: ASTM D3017, ASTM D4944, or ASTM D4959.

G. Material Testing Frequency: The following testing frequencies are minimum required or all structural and non-structural fill, grading and embankment.

1. Field In-Place Density and Moisture Content - Aggregate shall be compacted as specified and indicated. For other backfill and fill materials, minimum test frequency shall be as follows, and no less than one test per:

a. Trenches under structures foundation preparation or roadways subbase: Every 1000 lin. ft. [300 m.] per lift.

b. Trenches in areas without structures or roadways: Every 1000 lin. ft. [300 m.] per alternate lift.

c. Paved Roadways: Every 200 lin. ft. [60 m.] per lift.

d. Paved Areas: 3,500 sq. ft. [350 sq. m.] per lift.

e. Under Structure: 1,000 sq. ft. [100 sq. m.] per lift.

f. Around Structures: 1,500 sq. ft. [150 sq. m.] per lift.

h. Embankment Fills: 10,000 sq. ft. [1000 sq. m.] per lift.

2. Moisture Density - One per source, except for aggregate. Repeat the moisture density test for every 5,000 cubic yard of material use, and whenever visual inspection indicates a change in material gradation as determined by the Engineer.

3. Gradation Analysis - A minimum of one per source and for each moisture density test and whenever visual inspection indicates a change in material gradation.

4. Owner's testing laboratory to conduct confirmatory testing at a minimum frequency of 25% of the specified frequencies in paragraph 1.06.H, or as directed by Owner's Engineer.

H. Construction Tolerances:

1. Construct finished surfaces to plus or minus 1 inch [2.5 cm] of the elevations indicated.

2. Grade cut and fill areas to plus or minus 0.20 foot [6.0 cm] of the grades indicated.

3. Complete embankment edges to plus or minus 6 inches [15 cm] of the slope lines indicated.

4. Provide the Engineer with adequate survey information to verify compliance with above tolerances.

I. Cut pavement with a saw or pneumatic tools to prevent damage to remaining pavement without extra compensation. Where pavement is removed in large pieces, dispose of pieces before proceeding with excavation.

J. Pipes, drains, and other utilities may exist in certain locations not indicated on drawings. No attempt has been made to show all services. Completeness or accuracy of information given is not guaranteed.

K. Dig test pits considered as incidental to the normal excavation as indicated and specified in this Section, at no additional compensation.

L. Carefully support and protect from damage, existing pipes, poles, wires, fences, curbings, property line markers, and other structures, which the Engineer determines must be preserved in place without being temporarily or permanently relocated. Should such items be damaged, restore without compensation therefore, to at least as good condition as that in which they were found immediately before the work was begun.

M. Whenever certain existing structures, as described below, are encountered, and the Engineer so directs, change the location, remove and later restore, or replace such structures, or assist the Owner in doing so.

N. In removing existing pipes or other structures, include for payment only those new materials which are necessary to replace those unavoidably damaged as determined by the Engineer.

O. The preceding two paragraphs apply to pipes, wires, and other structures which meet the following: (a) are not indicated on the drawings or otherwise provided for, (b) encroach upon or are encountered near and substantially parallel to the edge of the excavation, and (c) in the opinion of the Engineer, will impede progress to such an extent that satisfactory construction cannot proceed until they have been changed in location, removed (to be later restored), or replaced.

P. Restore existing property or structures as promptly as practicable.

Q. If material unacceptable for foundation (in the opinion of the Engineer) is found at or below the grade to which excavation would normally be carried in accordance with the drawings and/or specifications, remove such material to the required width and depth as directed by the Engineer and replace it with aggregate, select borrow, or concrete.

R. Do not remove excavation materials from the site of the work or dispose of except as directed or permitted by the Engineer.

S. Haul away and dispose of surplus excavated materials at locations directed by the Engineer at no additional cost to the Owner.

T. During progress of work, conduct earth moving operations and maintain work site so as to minimize the creation and dispersion of dust. Furnish and spread calcium chloride if the Engineer decides that it is necessary for more effective dust control.

U. Provide suitable and safe bridges and other crossings where required for accommodation of travel, and to provide access to private property during construction, and remove said structures thereafter.

PART 2 – PRODUCTS

2.01 GENERAL

A. Use only acceptable materials from excavations or borrows.

B. Provide 1,500 psi [10 MPa] concrete.

C. Aggregate Base Course: CA-6 per SSRBC, Section 1004.

D. Bridging Base Course: CA-1 per SSRBC Section 1001.

E. Geotextile Fabric: Woven or nonwoven filaments of polypropylene, polyester, or polyethylene per SSRBC Section 1080.02.

2.02 EQUIPMENT

A. The compaction equipment shall be selected by the Contractor, and shall be capable of consistently achieving the specified compaction requirements. The selected compaction equipment shall meet the following minimum requirements:

1. Manually operated vibratory plate compactors weighing no less than 200 pounds [90 kg] with vibration frequency no less than 1600 cycles per minute.

2. Vibratory steel drum or rubber tire roller weighing at least 12,000 pounds [5450 kg].

PART 3 – EXECUTION

3.01 SITE MAINTENANCE

A. Site Leveling: Grade site as to maintain it in a level unrutted condition and to eliminate puddling of surface and subsurface water.

3.02 EXCAVATION

A. Execution of any earth excavation shall not commence until the related excavation support systems, and backfill and fill materials submittals are reviewed by the Engineer and all Engineer's comments satisfactorily addressed.

B. Carry out program of excavation, and excavation support systems to eliminate possibility of undermining or disturbing foundations of existing structures or of work previously completed under this contract.

C. Excavate to widths that give suitable room for building structures or laying and jointing piping.

D. Do not plow, scrape or dig by machinery near to finished subgrade in a manner that would result in disturbance of subgrade.

E. Excavate to lines and grades indicated in an orderly and continuous program.

F. Establish limits of excavation to allow adequate working space for installing forms and for safety of personnel.

G. Excavate to elevations indicated, or deeper, as directed by the Engineer, to remove unacceptable bottom material.

H. Exercise care to preserve material below and beyond the lines of excavations.

I. Place excavated material at the approved stockpile locations and in no case closer than 3 feet [90 cm] from edge of excavations to prevent cave-ins of bank slides.

J. Regard small, less than one cubic yard, boulders, rock fragments, and concrete encountered during excavation as a normal part of in-place soils and not included for payment as rock.

3.03 SEPARATION OF EXCAVATED MATERIALS FOR REUSE:

A. Remove only existing pavement that is necessary for prosecution of work.

B. Carefully remove loam and topsoil from excavated areas. Store separately for further use or furnish equivalent loam and topsoil as directed.

C. Carefully remove acceptable material from excavated areas and store separately for further use as backfill material.

3.04 TRENCH EXCAVATION

A. When pipe is to be laid in gravel bedding or concrete cradle, excavate trench by machinery to, or just below designated subgrade. If material remaining at bottom of trench is disturbed, recompaction shall be required.

B. When pipe is to be laid directly on bottom of trench, do not excavate lower part of trenches by machinery to subgrade. Remove remainder of material to be excavated just before placing of pipe by use of hand tools. Form a flat or shaped bottom, true to grade, so pipe will have a uniform and continuous bearing. Support on firm and undisturbed material between joints, except for limited areas where use of pipe slings have disturbed bottom.

3.05 DEPTH OF TRENCH

A. Excavate trenches to depths so as to permit pipe to be laid at elevations, slopes, or depths of cover indicated on drawings, and at uniform slopes between indicated elevations.

3.06 WIDTH OF TRENCH

A. Make pipe trenches as narrow as practicable and do not widen by scraping or loosening materials from the sides. Make every effort to maintain sides of trenches firm and undisturbed until backfilling has been placed and compacted.

B. Excavate trenches with approximately vertical sides between springline of pipe and elevation 1 ft. [30 cm] above top of pipe.

3.07 TRENCH EXCAVATION IN FILL

A. Place and compact material to top of fill or to a minimum height of 1 ft. [30 cm] above top of pipe, whichever is less, when pipe is to be laid in embankment or other recently filled material. Take particular care to ensure maximum consolidation of material under pipe location. Excavate pipe trench as though in undisturbed material.

3.08 EXCAVATION NEAR EXISTING STRUCTURES

A. Discontinue digging by machinery when excavation approaches pipes, conduits, or other underground structures. Continue excavation by use of hand tools. Include such manual excavation in work to be done when incidental to normal excavation and under items involving normal excavation.

B. Excavate test pits when determination of exact location of pipe or other underground structure is necessary for doing work properly.

3.09 REMOVAL OF SUBSURFACE OBSTRUCTIONS

A. Discontinue digging by machinery when excavation approaches pipes, conduits, or other underground structures. Continue excavation by use of hand tools. Include such manual excavation in work to be done when incidental to normal excavation and under items involving normal excavation.

B. Excavate test pits when determination of exact location of pipe or other underground structure is necessary for doing work properly.

3.10 UNAUTHORIZED EXCAVATION

A. When the bottom of any excavation for structures is taken out beyond limits indicated or specified, backfill, with Aggregate Base Course compacted to 95% maximum dry density.

3.11 REUSE AND DISPOSAL OF SURPLUS EXCAVATED MATERIALS

A. Reuse surplus acceptable excavated materials for backfill; deposit neatly and grade so as to make or widen fills, flatten side slopes, or fill depressions; or legally dispose off-site; all as directed or permitted and without additional compensation.

3.12 SUBGRADE PREPARATION AND PROTECTION

A. Remove loam and topsoil, loose vegetative matter, stumps and large roots from areas upon which embankments will be built or material will be placed for grading. Shape subgrade as indicated on drawings, and prepare by forking, furrowing, or plowing so that the first layer of new material placed thereon will be well bonded to it.

B. As directed by the Engineer, overexcavate unacceptable materials below the foundation subgrade. Backfill the overexcavation with compacted Aggregate Base Course.

C. Proof roll the foundation subgrade prior to backfilling and filling operation, or placing foundation concrete.

D. Proof roll the pipe trench foundation subgrade prior to backfilling and filling operation, or placing soil-supported pipeline.

E. Utilize excavating equipment equipped with a toothless or smooth edged, excavating bucket to expose the pipe trench foundation subgrade to avoid disturbance of the bearing surface. Tamp the exposed subgrade with the excavating bucket prior to backfilling and filling operation, or placing soil-supported pipeline.

3.13 CARE AND RESTORATION OF PROPERTY

A. Enclose uncut tree trunks adjacent to work in wooden boxes of such height as may be necessary for protection from injury from piled material, equipment, operations, or otherwise due to work. Operate excavating machinery and cranes of suitable type with care to prevent injury to trees not to be cut and particularly to overhanging branches and limbs.

B. Cut all branches, limbs, and roots smoothly and neatly without splitting or crushing. Neatly trim, cut the injured portions and cover with an application of grafting wax or tree healing paint as directed.

C. Protect cultivated hedges, shrubs, and plants which might be injured by the Contractor's operations by suitable means or dig up and temporarily replant and maintain. After construction operations have been substantially completed, replant in original positions and care for until growth is reestablished. If cultivated

hedges, shrubs, and plants are injured to such a degree as to effect their growth or diminish in their beauty or usefulness, replace by items of equal kind and quality existing at the start of the work.

D. Do not use or operate tractors, bulldozers, or other power-operated equipment on paved surfaces when their treads or wheels of which are so shaped as to cut or otherwise damage such surfaces.

E. Restore surfaces damaged by the Contractor's operations to a condition at least equal to that in which they were found immediately before work commenced. Use suitable materials and methods for such restoration.

3.14 BACKFILLING - GENERAL

A. Do not place, spread, roll or compact fill material during unfavorable weather conditions. If interrupted by heavy rain or other unfavorable conditions, do not resume until ascertaining that the moisture content and density of the previously placed soil are as specified.

B. Do not use water jetting or flooding as a means of compaction.

3.15 MATERIAL PLACEMENT AND COMPACTION REQUIREMENTS

A. Select Borrow, and Fine Aggregate:

1. Dump and spread in layers not to exceed 8-in. [20 cm] uncompacted thickness.

2. Compact, fill and backfill under structure and bedding for pipes (from below pipe to spring line) as indicated but to not less than 95 percent. Compact to not less than 90 percent in other areas unless otherwise indicated.

B. Aggregate Base Course:

1. Dump and spread in layers not to exceed 8-in. [20 cm] uncompacted thickness.

2. Compact using self propelled vibratory steel drum or rubber tire rollers with a minimum of 4 passes in directions perpendicular to one another in open areas. In small areas, use manually operated vibratory plate compactors with a minimum of 4 passes.

3. Compact to 95% maximum dry density.

C. Bank-run Gravel and Acceptable materials for use as non-structural fill:

1. Dump and spread in layers not to exceed 12-in. [30 cm] uncompacted thickness.

2. Compact to not less than 90 percent unless otherwise indicated.

D. Backfilling and filling operation shall be suspended in areas where tests are being made until tests are completed and the testing laboratory has advised the Engineer that adequate densities are obtained.

3.16 STRUCTURAL FILL AND BACKFILL UNDER STRUCTURES

A. Compact fill and backfill under structures and pavements with Aggregate Base Course.

3.17 NON-STRUCTURAL BACKFILL AROUND STRUCTURES

A. Use acceptable materials for non-structural backfill around structures and compacted as specified and indicated.

B. Conduct hydraulic testing as soon as practicable after structures are constructed and other necessary work has been done. Start backfilling promptly after completion of tests.

C. Deposit material evenly around structure to avoid unequal soil pressure.

D. Do not place backfill against or on structures until they have attained sufficient strength to support the loads (including construction loads) to which they will be subjected, without distortion, cracking, or other damage.

3.18 BACKFILLING PIPE TRENCHES

A. General:

1. Begin backfilling and proceed until completed after: the pipes and conduits have been laid, joints have acquired maximum degree of hardness, pipelines and conduits have successfully passed tests and inspections as required in the Specifications, and concrete or masonry structures within the trench have reached their design strength to support all loads.

2. Backfill and compact indicated material under, around, and above pipes, conduits, and other structures to the indicated or specified compaction density requirement. Utilize compaction devices which will not damage the pipe, conduit, or structure within the trench.

3. Do not drop backfill material into trench from a height of more than 5 ft. [150 cm], or in a manner which will damage the pipe, conduit, or other structure within trench.

B. Pipe Trenches:

1. Materials:

a. From below pipe to 1 ft. [30 cm] above top of pipe: Use screened gravel, or crushed stone, unless otherwise indicated.

b. One foot [30 cm] above top of pipe to finished grade or to pavement subbase: Use bank-run gravel or acceptable materials, unless otherwise indicated.

2. Compacting Around Pipes: Compact material around circumference of pipe and the area between the trench wall and the pipe by hand tamping in 6 inches [15 cm] layers.

3. Compacting Above Pipe: Compact material by hand tamping. If trench width is wide enough to accommodate power tools and the compacted material over the pipe will support the load of the power tools without damage to the pipe, use rollers or other powered compaction equipment able to more readily achieve compaction requirements.

3.19 MATERIAL FOR FILLING AND EMBANKMENTS

A. Use acceptable materials for filling and building embankments unless otherwise indicated.

3.20 PLACING AND COMPACTING EMBANKMENT MATERIAL

A. Compact fill material as specified and indicated.

B. Perform fill operation in an orderly and systematic manner using equipment in proper sequence to meet the specified compaction requirements.

C. Place fill on surfaces which are free of unacceptable materials.

D. Begin filling in lowest section of work area. Grade surface of fill approximately horizontal but provide with sufficient longitudinal and transverse slope to allow for runoff of surface water from every point.

E. Conduct filling so that no obstruction to drainage from other sections of fill area is created at any time.

F. Reduce moisture content of fill material, if necessary, in source area by working it over under warm and dry atmospheric conditions. A large disc harrow with two to three foot diameter disks may be required for working soil in a drying operation.

G. Compact uniformly throughout. Keep surfaces of fill reasonably smooth and free from humps and hollows which would prevent proper and uniform compaction. Do not permit hauling equipment to follow a single track on the same layer but direct equipment to spread out to prevent overcompaction in localized areas. Take care in obtaining thorough compaction at edges of fill.

H. Slightly slope surface of fill to ensure drainage during periods of wet weather. Do not place fill while rain is falling or after a rain-storm until the Engineer considers conditions satisfactory. During such periods and upon suspension of filling operations for any period in excess of 12 hours, roll smooth the surface of fill using a smooth wheel static roller to prevent excessive absorption of rainfall and surface moisture. Prior to resuming compaction operations, remove muddy material off surface to expose firm, compacted material, as determined by the Engineer.

I. When fill is placed against an earlier fill or against in-situ material under and around structures, including around piping beneath structures or embankments, slope junction between two sections of fill, 1 vertical to 1.5 horizontal. Bench edge of existing fill 24- in. [60 cm] to form a serrated edge of compact stable material against which to place the new fill. Ensure that rolling extends over junction between fills.

J. When fill is placed directly upon another older fill, clean surface thoroughly of debris and remove any loose material. Then proof roll the entire old surface.

K. After spreading each loose lift to the required thickness and adjusting its moisture content as necessary, roll with sufficient number of passes to obtain the required compaction. One pass is defined as the required number of successive trips which by means of sufficient overlap will insure complete coverage and uniform compaction of an entire lift. Do not make additional passes until previous pass has been completed.

L. In case material of any fill sinks and weaves under roller or under hauling units and other equipment, required degree of compaction is not being obtained. Reduce the moisture content. If such sinking and weaving produces surface cracks, suspend operations on that part of the embankment until it becomes sufficiently stabilized. Ideal condition in fill is that attained when the entire fill below the surface being rolled is so firm and hard as to show only the slightest weaving and deflection as roller passes. Spread out rolling operations over the maximum practicable area to minimize condition of sinking and weaving.

M. If because of defective workmanship, compaction obtained over any area is less than that required, remedy condition at no cost to Owner. If additional rolling or other means fail to produce satisfactory results, remove material in that area down to a level of satisfactory density. Perform removal, replacement, and rerolling without additional compensation.

3.21 COMPACTION CONTROL OF BACKFILL, FILL, AND EMBANKMENT

A. Compact to density specified and indicated for various types of material. Control moisture content of material being placed as specified or if not specified, at a level slightly lower than optimum.

B. The soil testing laboratory shall provide inspection during filling or backfilling operations to ensure compaction of aggregate and record compaction equipment in use.

C. Moisture control may be required either at the stockpile area, pits, or on embankment or backfill. Increase moisture content when material is too dry by sprinkling or other means of wetting uniformly. Reduce moisture content when material is too wet by using ditches, pumps, drainage wells, or other devices and by exposing the greatest possible area to sun and air in conjunction with harrowing, plowing, spreading of material or any other effective methods.

3.22 ALLOWANCE FOR SHRINKAGE

A. Build embankments or backfill to a height above finished grade which will, in the opinion of the Engineer, allow for the shrinkage or consolidation of material. Initially, provide at all points, an excess of at least one percent of total height of backfill measured from stripped surface to top of finished surface.

B. Supply specified materials and build up low places as directed, without additional cost if embankment or backfilling settles so as to be below the indicated level for proposed finished surface at any time before final acceptance of the work.

PART 4 – MEASUREMENT AND PAYMENT

4.01 MEASUREMENT:

A. Measurement will not be made for the Work specified in this Section.

4.02 PAYMENT

A. Payment for the Work specified in this Section will be made at the lump sum prices for EARTHWORK.

--- END OF SECTION ---

DEWATERING
SECTION 31 23 19

PART 1 – GENERAL

1.01 DESCRIPTION

A. Section includes specifications for temporary dewatering systems.

1.02 SYSTEM DESCRIPTION

A. Remove water which accumulates in excavations during the progress of work so that all work can be done in the dry, unless otherwise approved by the Engineer. Keep excavated areas free from water while underground utilities or structures are constructed, while concrete is setting and until backfill or elements of the structure have been placed to a sufficient height to anchor the work against possible leakage or buoyant uplift forces. A height to anchor the work against buoyant uplift forces shall be considered sufficient when the dead load weight of the backfill or elements of the structure exceeds the uplift forces by a minimum factor-of-safety of 1.5.

B. In addition to the other requirements specified herein, design the dewatering systems to perform as follows:

    1. Prevent damage to adjacent properties, buildings, structures, utilities, and other work as a result of settlement or other groundwater-related effects.

    2. At all times, maintain groundwater levels over the entire excavation a minimum of 2 feet below the excavation grade.

C. At all times, have on the work site sufficient pumping equipment for immediate use, including standby pumps for use in case other pumps become inoperable. Dispose of water in accordance with the detailed requirements specified herein and so as to cause no injury to personnel or the public, damage to public or private property, nor menace to the public health.

D. Design dewatering system to prevent pumping fines from below grade or disturbing materials exposed at the excavation bottom. Wells shall be cased, and filter(s) shall be provided to prevent such pumping of fines.

E. Provide a sufficient number of monitoring wells to confirm the following:

    1. The dewatering system is performing as intended and is achieving the specified reduction in groundwater levels.

2. Construction site groundwater levels inside and outside dewatered excavations to determine the acceptability of removing the dewatering system from operation.

F. Provide filter bags of sufficient size for dewatering.

G. If the approved methods include displacing groundwater as concrete or other work is placed in excavations, the dewatering system shall capture groundwater as it is displaced and follow the procedures herein for its containment, analysis, and discharge.

H. Obtain jurisdictional authority's specific discharge requirements prior to commencement of dewatering.

1.03 SUBMITTALS

A. Submit dewatering plan including shop drawings and design data including the following elements:

1. The proposed type of dewatering system.

2. Arrangement, location, and depths of system components.

3. Complete description of equipment and instrumentation to be used, with installation, operation and maintenance procedures.

4. Types and sizes of filters.

5. Design calculations demonstrating adequacy of the proposed system and equipment.

6. Methods of disposal of pumped water.

7. Method of water quality monitoring.

8. Type of filtration and chemical treatment of contaminated water, as applicable.

9. Well point system design, if proposed: Submit design complete with calculations and shop drawings.

10. Method for establishing and monitoring construction site groundwater levels.

11. Criteria for determining the acceptability of removing the dewatering system from operation.

B. Prior to removing the dewatering system from operation, submit documentation and calculations verifying that the approved criteria for determining the acceptability of removing the system from operation have been met.

1.04 DELIVERABLES

A. Submit copies of permits required for work of this Section.

1.05 QUALITY ASSURANCE

A. Well point design, if applicable, shall be prepared, signed, and sealed by a geotechnical engineer registered by the State of Illinois and qualified and experienced to perform such design.

PART 3 – EXECUTION

3.01 DEWATERING

A. Except as otherwise indicated in the Contract Documents, perform dewatering to accomplish a lowering of measured static ground water level to an elevation which is suitable for the construction of structures below grade.

B. When pumping is required to reduce groundwater levels, accomplish pumping in a manner that will not disrupt the surrounding environment.

C. The Contractor may, during the daylight hours of 8:30 AM to 4:30 PM, use generators to operate the dewatering pumps. During all other hours, power to run the pumps shall be electric and obtained from the electric power utility in accordance with Section 01 50 00, Construction Facilities, unless otherwise authorized by the Engineer and jurisdictional authorities.

D. If any dewatering well pumps fines, terminate pumping and construct new well at a different location with a revised design which eliminates the pumping of fines.

E. Do not turn off the dewatering system in a manner that the upsurge in water weakens the subgrade for completed excavation and structure foundation work.

F. Remove storage containers, including those cleaned, and other dewatering facilities from the site at the completion of dewatering operations.

PART 4 – MEASUREMENT AND PAYMENT

Work specified in this Section will not be measured or paid for as a separate item, but shall be considered as included in the prices bid for the various pay items of work involved.

--- END OF SECTION ---

SHORING, SHEETING, AND BRACING
SECTION 31 41 00

PART 1 – GENERAL

1.01 SUMMARY

A. Section Includes: Work required for protection of an excavation or structure through shoring, sheeting, and bracing.

1.02 SUBMITTALS

A. General: Provide all submittals, including the following, as specified in Section 01 33 00.

B. Contractor's Submittals: Unless otherwise agreed upon with the Engineer, submit a Certificate only, signed and sealed by a Licensed Professional Engineer experienced in Structural Engineering and registered in the State of Illinois, that certifies that the Licensed Professional Engineer has evaluated and approved the Contractor's excavation plan and has prepared complete design calculations and working drawings for the shoring, sheeting and bracing, not specifically shown on the Contract Drawings, which will be used for excavation support.

1.03 REFERENCES

A. Codes and standards referred to in this Section are:
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1. All Federal, State and local laws and regulations applying to the design and construction of shoring, sheeting and bracing.

2. National Bureau of Standards Building Science Series 127 "Recommended Technical Provisions for Construction Practice in Shoring and Sloping Trenches and Excavations."

PART 2 – PRODUCTS

2.01 MANUFACTURERS AND MATERIALS

A. Use manufacturers and materials for shoring, sheet and bracing as recommended by the Contractor's Licensed Professional Engineer who designed the shoring, sheeting, and bracing. Products shall be subject to the review of the Owner's Representative.

B. Fabrication of sheeting / shoring / bracing shall be in accordance with applicable requirements of IDOT Standard Specification Article 505.04.

PART 3 – EXECUTION

3.01 SHORING, SHEETING AND BRACING INSTALLATION

A. General: Provide safe working conditions, prevent shifting of material, prevent damage to structures or other work, and avoid delay to the work, all in accordance with applicable laws and regulations. Properly shore, sheet, and brace all excavations that are not cut back to the proper slope, as determined by the Contractor's Licensed Professional Engineer.

    1. Take sole responsibility for the design and adequacy of shoring, sheeting and bracing not shown on the Contract Drawings.

    2. Take sole responsibility for the methods of installation of the shoring, sheeting and bracing.

B. Arrange shoring, sheeting and bracing so as not to place any strain on portions of completed work until the general construction has proceeded far enough to provide ample strength.

C. If the Contractor or its Licensed Professional Engineer is of the opinion that at any time the Contractor's excavation plan, shoring, sheeting or bracing is inadequate or unsuited for the purpose, take immediate and appropriate action. Provide a new Certificate if the Contractor's excavation plans, shoring, sheeting or bracing require modifications.

D. Monitoring: Periodically monitor horizontal and vertical deflections of sheeting, shoring and bracing.

E. Accurately locate all underground utilities and take the required measures necessary to protect them from damage. All underground utilities shall be kept in service at all times as specified in Division 1.

F. Remove shoring, sheeting and bracing as the excavation is refilled in a manner to avoid the caving in of the bank or disturbance to adjacent areas or structures or pipe bedding.

    1. Carefully fill voids left by the withdrawal of the shore, sheeting and bracing. No separate payment will be made for the filling of such voids.

    2. If pipe bedding is disturbed, re-compact it to meet specified density requirements.

G. Permission for Removal: Obtain permission from the Contractor's Licensed Professional Engineer before the removal of any shoring, sheeting or bracing.

Retain the responsibility for injury to structures or to other property or persons for failure to leave such shoring, sheeting and bracing in place even though permission for removal has been obtained.

PART 4 – MEASUREMENT AND PAYMENT

4.01 MEASUREMENT:

A. Measurement will not be made for the Work specified in this Section.

4.02 PAYMENT:

A. Payment for the Work specified in this Section will be made at the lump sum prices for TEMPORARY SOIL RETENTION SYSTEMS.

--- END OF SECTION ---

AGGREGATE BASE COURSES
SECTION 32 11 23

PART 1 GENERAL

1.1 SUMMARY

A. Section includes: Aggregate materials, subgrade preparation, test rolling equipment and procedures, aggregate installation requirements, and base course schedule for:
   1. CLASS C PATCHES, 8”.
   2. CONCRETE SIDEWALK, 5”.
   3. CURB AND GUTTER REPLACEMENT.
   4. WET WELL
   5. METER / VALVE / BYPASS VAULT
   6. CONCRETE TRAFFIC BOX ENCLOSURE PAD.
   7. CONCRETE GENERATOR PAD.

1.2 SUBMITTALS

A. Provide certified analysis of material(s) to Engineer prior to any use on Work.

PART 2 PRODUCTS

2.1 AGGREGATE FOR BASE COURSE

A. Aggregate Material: Crushed gravel or recycled crushed concrete, free of organic material and debris and in accordance with Section 1004 of the IDOT Standard Specifications, Gradation CA-6.

2.2 AGGREGATE FOR EXCAVATION BELOW SUBGRADE

A. Aggregate Material: Crushed gravel or recycled crushed concrete, free of organic material and debris and in accordance with Section 1004 of the IDOT Standard Specifications, Gradation CA-1 or CA-6, as directed.

2.3 AGGREGATE FOR TEMPORARY ACCESS

A. Aggregate Material: Crushed gravel or recycled crushed concrete, free of organic material and debris and in accordance with Section 1004 of the IDOT Standard Specifications, Gradation CA-6.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify substrate is dry and has been inspected, and gradient and elevation are correct.

3.2 SUBGRADE PREPARATION

A. Correct irregularities in substrate gradient and elevation by scarifying, reshaping, and recompacting.

B. Do not place fill on soft, muddy, or frozen surfaces.

3.3 TEST ROLLING SUBGRADE

A. Test rolling shall be used to verify stability and uniformity of subgrade. Perform this Work in presence of Owner's Representative.

B. Use test rolling equipment conforming to following description:
   1. Tandem axle, dual wheel dump truck.
   2. Tire pressure shall be no less than 90 percent of manufacturer's recommended maximum inflation.
   3. Minimum gross weight of loaded truck shall be 60,000 pounds.
   4. Provide weigh slip to Owner's Representative.

C. Perform test rolling procedure as follows:
   1. Operate equipment at a rate not to exceed 3 to 5 mph or a comfortable walking pace. Adjust speed to allow Owner's to measure any deflections and areas of rutting.
   2. Operate test rolling equipment in a pattern so that affected areas are loaded with at least one pass.
   3. After test rolling, check subgrade for conformance to drawings, and correct any surface irregularities. Re-shape subgrade within tolerances specified.

D. Test Rolling Evaluation:
   1. Rutting up to 1-inch is acceptable. Rutting more than 1-inch but not more than 6 inches, shall be considered a failure and requires reworking soil and compaction to required density.
   2. Deflection (pumping) up to 1-inch is acceptable. Deflection more than 1-inch but not more than 2 inches shall be acceptable if there is not substantial cracking or lateral movement of soil.
   3. Deflection more than 2 inches but not more than 6 inches shall be considered a failure, and requires reworking soil and compaction to required density.
   4. Rutting and deflection more than 6 inches will require review and recommendation for corrective action by Testing Agency and approved by Owner.
   5. After remedial work is performed, a final test roll shall be performed upon completion of work.
   6. If remedial work fails to correct the subgrade conditions, the unsuitable material shall be removed and replaced with granular material as directed by the Owner's Representative.
   7. If remedial work is performed as directed, second test roll may be waived at discretion of Owner's Representative.

3.4 AGGREGATE INSTALLATION REQUIREMENTS

A. Aggregate for temporary access may be incorporated into aggregate base course provided is free of organic materials and debris.

B. Spread aggregate over prepared substrate to a total compacted thickness as indicated on Drawings.

C. Place aggregate in maximum 8-inch loose lifts and compact to specified density.

D. Level and contour surfaces to elevations and gradients indicated.

E. Add small quantities of fine aggregate to coarse aggregate as appropriate to assist compaction.

F. Add water to assist compaction. If excess water is apparent, remove aggregate and aerate to reduce moisture content.

G. Use mechanical tamping equipment in areas inaccessible to compaction equipment.

H. Compact aggregate base course to 95 percent modified proctor density.

3.5 TOLERANCES

A. Flatness: Maximum variation of 1/2-inch measured with 10-foot straight edge.

B. Scheduled Compacted Thickness: Within 1/4-inch.

C. Variation from Design Elevation: Within 1/4-inch.

3.6 FIELD QUALITY CONTROL

A. Field inspection and testing will be performed under provisions of Division 1 and particularly Parts 1.06 and 3.02 of Section 01 40 00.

B. Testing and analysis of fill material will be performed in accordance with ASTM D1557 and Division 1.

C. Compaction and moisture testing will be performed in accordance with ASTM D6938 and Division 1.

D. If tests indicate Work does not meet specified requirements, remove Work, replace, and retest at no cost to Owner.

E. Frequency of Tests: As determined by Testing Agency and approved by Owner.

F. Verify compacted granular base is acceptable and ready to support paving and imposed loads.

G. Verify gradients and elevations of base are correct.

PART 4 MEASUREMENT AND PAYMENT

Work specified in this Section will not be measured or paid for as a separate item but shall be considered as included in the prices bid for the various pay items of work involved which include CLASS C PATCHES, 8”, CONCRETE SIDEWALK, 5”, CURB AND GUTTER REPLACEMENT, WET WELL, METER / VALVE / BYPASS VAULT, CONCRETE TRAFFIC BOX ENCLOSURE PAD, and CONCRETE GENERATOR PAD.

--- END OF SECTION ---

CONCRETE PAVING
SECTION 32 13 13

PART 1 GENERAL

1.1 SUMMARY

A. Section includes:
   1. Materials and installation requirements for exterior concrete components as follows:
      a. Class B Patches, 8”.
      b. Concrete Sidewalk, 5”.
      c. Curb and Gutter Replacement.

1.2 SUBMITTALS

A. General: Provide all submittals, including the following, as specified in the Standard General Conditions.

B. Mix Design: For each class of concrete.

C. Product Data: Data on joint filler, reinforcement, admixtures, and curing and sealing compound, and detectable warning tiles

1.3 QUALITY ASSURANCE

A. Perform Work in accordance with Illinois Department of Transportation standards indicated in Check Sheet 23 of the Supplemental Specifications and Recurring Special Provisions.

B. Obtain cementitious materials from same source throughout.

1.4 ENVIRONMENTAL REQUIREMENTS

A. Do not place concrete when base surface temperature is less than 40 degrees F or surface is wet or frozen.

PART 2 PRODUCTS

2.1 FORM MATERIALS

A. In accordance with Article 1103.05 of the IDOT Standard Specifications.

2.2 REINFORCEMENT

A. Reinforcing Steel: Epoxy coated finish, Article 1006.10 of the IDOT Standard Specifications.

B. Dowel Bars: Epoxy coated finish, Article 1006.11 of the IDOT Standard Specifications.

C. Reinforcement Supports: Bolsters, chairs, spacers, and other devices for spacing, supporting, and fastening reinforcement bars, and dowels in place shall be in accordance with Article 1006.11 of the IDOT Standard Specifications.

2.3 CONCRETE MATERIALS

A. In accordance with Section 1020 of the IDOT Standard Specifications.

2.4 CHEMICAL ADMIXTURES

A. In accordance with Section 1021 of the IDOT Standard Specifications.

2.5 ACCESSORIES

A. Joint Filler: In accordance with Section 1051 of the IDOT Standard Specifications.

B. Form Release Agent: Colorless material which will not stain concrete, absorb moisture or impair natural bonding or color characteristics of coating, intended for use on concrete.

2.6 CURING AND TREATMENT MATERIALS

A. Water: Potable and clean.

B. Membrane Curing Compound: Type III in accordance with Article 1022.01 Paragraph (C) of the IDOT Standard Specifications.

C. Protective Coat: In accordance with Article 1023.01 of the IDOT Standard Specifications.

D. Hot-Applied Joint Sealants: In accordance with Article 1050.02 of the IDOT Standard Specifications.

2.7 CONCRETE MIX

A. Use mix proportions for the appropriate Class of concrete as set forth in Section 1020 of the IDOT Standard Specifications.

B. Hight-early strength concrete mix shall be used at commercial entrances.

C. A qualified agency acceptable to Engineer shall prepare mix designs. Submit copies of mix designs for Engineer’s review prior to placing any concrete.

D. Mix design shall indicate brands, types, and quantities of admixtures included, compressive strength, slump, sieve analysis for fine and coarse aggregate, quantities of all ingredients, type and brand of cement, source of aggregate, and whether fine aggregate is natural or manufactured.

E. Use accelerating admixtures in cold weather only when approved by Engineer in writing. Use of admixtures will not relax cold weather placement requirements.

F. Use calcium chloride only when approved by Engineer in writing.

G. Use set retarding admixtures during hot weather only when approved by Engineer in writing.

2.8 DETECTABLE WARNINGS

A. Detectable warnings shall measure two (2) feet long by the entire width of the sidewalk in accordance with latest PROWAG guidelines. The detectable warning plates shall be polymer composite material Federal Standard brick red color cast in place replaceable design and meet the Village of Arlington Height standards. The tiles shall be installed such that at least one inch of concrete surrounds the outer edges of the tiles. The contractor is responsible for the installation of the detectable warnings according to the manufacturer's specifications.

PART 3 EXECUTION

3.1 GENERAL

A. CLASS B PATCHES, 8"
   1. Construct at the locations shown on the Existing Conditions and Demolition Plan, Proposed Lift Station Plan and Details, IDOT Standard 442101-09, and this Specification.

B. CONCRETE SIDEWALK, 5"
   1. Construct at the locations shown on the Existing Conditions and Demolition Plan, Proposed Lift Station Plan and Details, PCC Sidewalk detail in the plans, and this Specification.

C. CURB AND GUTTER REPLACEMENT
   1. Construct at the locations shown on the Existing Conditions and Demolition Plan, Proposed Lift Station Plan and Details, PCC Curb and Gutter detail in the plans, and this Specification.
   2. Existing integral curb shall be sawcut to create a construction joint for new curb.

3.2 TEMPORARY ACCESS

A. Provide aggregate for temporary access at entrances per 32 11 23 – Aggregate Base Courses. Private entrance minimum width shall be 12 feet with a maximum grade of eight percent. Commercial entrance minimum width shall be 24 feet with a maximum grade shall be six percent.

3.3 EXAMINATION

A. Verify compacted granular base is acceptable and ready to support paving and imposed loads.

B. Verify gradients and elevations of base are correct.

3.4 SUBBASE

A. Section 32 11 23 Aggregate Base Course, forms base construction for Work in this section.

3.5 PREPARATION

A. Moisten base to minimize absorption of water from fresh concrete.

B. Coat surfaces of utility frames with oil to prevent bond with concrete.

C. Notify Engineer a minimum 24 hours prior to commencing concrete operations.

3.6 FORMING

A. Place and secure forms to correct location, dimension, profile, and gradient.

B. Assemble formwork to permit easy stripping and dismantling without damaging concrete operations.

C. Place joint filler vertical in position, in straight lines. Secure to formwork during concrete placement

3.7 PLACING REINFORCEMENT

A. Place reinforcement as indicated

B. Interrupt reinforcement at expansion joints.

C. Place tie bars to achieve pavement and curb alignment as detailed.

3.8 PLACING CONCRETE

A. Place concrete in accordance with Section 420, 423, 424 and 606 of the IDOT Standard Specifications.

B. Commercial entrances shall require high-early strength concrete mix.

C. Concrete may be placed using slip form technique.

D. Ensure reinforcement, inserts, embedded parts, and formed joints are not disturbed during concrete placement.

E. Place concrete continuously over full width or panel and between predetermined construction joints. Do not break or interrupt successive pours such that cold joints occur.

3.9 JOINTS

A. Place expansion joints using joint filler in accordance with IDOT Standards. Place joint filler between paving components and building or other appurtenances.

B. Align curb, gutter, and pavement joints.

C. Install tie bars and dowel bars in accordance with Section 420 and 606 of the IDOT Standard Specifications.

D. Jointing shall be performed by hand tools or saw-cutting. Jointing tools and equipment must provide minimum joint depth as specified by ACI requirements.

E. If method of jointing is saw-cutting, Contractor shall perform saw-cutting operations as soon as possible following curing process, without damaging new concrete.

3.10 INSTALLING DETECTABLE WARNINGS

A. Set panels into wet concrete at locations as shown on the drawings. Press panels into concrete to match top of concrete elevation. Do not over depress.

B. Clean any wet concrete off panel surface.

3.11 FINISHING

A. Sidewalk Paving: Broom finish. Edge sidewalk to 1/2-inch radius. Trowel joint edges.

B. Curbs and Gutters: Broom finish.

C. Direction of Texturing: Transverse to pavement direction.

D. Place curing compound on exposed concrete surfaces immediately after finishing.

3.12 JOINT SEALING

A. Separate pavement from vertical surfaces with 1/2-inch thick joint filler.

B. Place joint filler in pavement pattern placement sequence. Set top to required elevations. Secure to resist movement by wet concrete.

C. Extend joint filler from bottom of pavement to within 1/8-inch of finished surface unless otherwise indicated on the plans.

D. Comply with joint sealant manufacturer's written installation instructions applicable to products and applications indicated, unless requirements that are more stringent apply.

E. Comply with recommendations of ASTM C1193 for use of joint sealants as applicable to materials, applications, and conditions indicated.

F. Provide backer materials of type indicated to support sealants during application and at position required to produce cross-sectional shapes and depths of installed sealants relative to joint widths that allow optimum sealant movement capability.
   1. Do not leave gaps between ends of backer materials.
   2. Do not stretch, twist, puncture, or tear backer materials.
   3. Remove absorbent backer materials that become wet before sealant application and replace them with dry materials.

G. Install sealants by the following techniques at same time backer material is installed:
   1. Place sealants so they directly contact and fully wet joint substrates.
   2. Completely fill recesses provided for each joint configuration.
   3. Produce uniform, cross-sectional shapes and depths relative to joint widths that allow optimum sealant movement capability.

H. Tooling of Non-Sag Sealants: Immediately after sealant application and before skinning or curing begins, tool sealants according to requirements specified below forming smooth, uniform beads; eliminating air pockets; and ensuring contact and adhesion of sealant with sides of joint.
   1. Remove excess sealants from surfaces adjacent to joint.
   2. Use tooling agents approved in writing by sealant manufacturer and that do not discolor sealants or adjacent surfaces.

I. Provide joint sealant configuration complying with sealant manufacturer requirements and of depth and at locations indicated.

3.13 TOLERANCES

A. Maximum Variation of Surface Flatness: 1/4-inch in 10 feet.

B. Maximum Variation from True Position: 1/4-inch.

3.14 FIELD QUALITY CONTROL

A. Field inspection and testing will be performed under Provisions of Section 01 43 00. Frequency of test cylinders, slump test, air tests, and documentation shall be as determined by the Engineer.

3.15 PROTECTION

A. Immediately after placement, protect pavement from premature drying, excessive hot or cold temperatures, and mechanical injury.

B. Do not permit pedestrian traffic over pavement for 2 days minimum after finishing and vehicular traffic over pavement for 7 days minimum after finishing.

PART 4 – MEASUREMENT AND PAYMENT

4.01 MEASUREMENT:

A. CLASS B PATCHES, 8” will be measured for payment in place, and the area computed in square yards.

B. CONCRETE SIDEWALK, 5” will be measured for payment in place and the area computed in square foot. Detectable warnings will not be measured for separately.

C. CURB AND GUTTER REPLACEMENT will be measured for payment in place and the area computed in linear foot.

4.02 PAYMENT:

A. CLASS B PATCHES, 8”

1. Payment for the Work specified for this item will be made at unit price per square yard measured in place.

2. Work includes all work in this specification as well as full depth saw cuts for the patch, pavement removal, and subgrade preparation.

B. CONCRETE SIDEWALK, 5”

1. Payment for the Work specified for this item will be made at unit price per square foot measured in place.

2. Work includes all work in this specification as well as earthwork, 2” of CA-6 compacted stone base course as shown on the plans, and detectable warnings.

C. CURB AND GUTTER REPLACEMENT

1. Payment for the Work specified for this item will be made at unit price per linear foot measured in place.

2. Work includes all work in this specification as well as earthwork and 2” of CA-6 compacted stone base course as shown on the plans.

--- END OF SECTION ---

TOPSOIL, SEEDING & RESTORATION
SECTION 32 92 00

PART 1 – GENERAL

1.01 SCOPE

A. This Section covers the Work required for the restoration of plain grassy areas impacted by all related infrastructure improvements scheduled for the area involved, and all things necessary for preparing, placing, and maintaining topsoil, seed and mulch in accordance with these Specifications and as shown on the Drawings. All disturbed areas shall be restored with topsoil, seed and mulch. The Work of this Section includes, but is not limited to the following:

1. Preparation of sub-grade to receive topsoil.

2. Placing, raking and leveling of topsoil as required to prepare for seed and mulch.

3. Placing of seed and mulch.

4. Maintenance of seed and mulch.

1.02 QUALITY ASSURANCE

A. Work of this Section shall conform to the applicable requirements of the IDOT Standard Specifications Sections 250, 251, and 253 modified as herein specified.

B. As a measure of the quality of Work to be performed, the Contractor shall be responsible for restoring all disturbed areas to original conditions (as a minimum).

1.03 SUBMITTALS

A. Contractor shall submit to the Owner's Representative for review prior to procurement of the materials, the brand name and mixture of the seed, the brand name and chemical composition of the fertilizer, and landscape screening plantings information.

PART 2 – PRODUCTS

2.01 TOPSOIL

A. Topsoil for seeded areas shall be 4 inches in thickness as a minimum.

B. No spreading of topsoil will be permitted until subgrade is approved by the Owner's Representative.

C. Topsoil shall be a finely pulverized, fertile, friable, rich, black dirt free of lump/clots and without admixture of sub-soil, or any material toxic to plant growth.

D. Topsoil shall be of uniform quality and free of large roots, stick, hard clay, weeds, brush, stones or other litter or waste products and shall have demonstrate, in its original location, the ability to grow healthy grass.

E. Topsoil shall not be delivered or spread in muddy or frozen condition.

2.02 SEED

A. Seed shall be native to the area and shall be in accordance with the applicable requirements of IDOT Standard Specification, Article 250.02.

B. Seeding Mixture shall be equivalent to IDOT Class 1A, Salt Tolerant Lawn Mixture.

2.03 MULCH

A. Mulch shall be native to the area and shall be in accordance with the applicable requirements of IDOT Standard Specification, Article 251.02.

B. Mulch shall be applied in accordance with Method 1, hand or machine application of straw mulch, in accordance with Article 251.03(c) of the IDOT Standard Specifications.

2.04 FERTILIZER

A. All fertilizer used shall be a commercial mixture providing a complete plant food and containing nitrogen, phosphorous and potash in the proportions of 5 percent water soluble nitrogen, 3 percent available phosphorous and 2 percent water soluble potash or in other similar proportions approved by the Owner's Representative. The Contractor shall obtain approval from the Owner's Representative of the fertilizer proposed to be used before delivery of the fertilizer to the Work Site.

B. Fertilizer shall be provided at 180 pounds of fertilizer nutrients per acre applied at a 5:3:2 ratio as follows:

Nitrogen Fertilizer Nutrient 90 lbs/acre
Phosphorus Fertilizer Nutrient 54 lbs/acre
Potassium Fertilizer Nutrient 36 lbs/acre

C. All commercial fertilizer (5-3-2) shall be delivered in standard size bags of the manufacturer, showing weight, analysis and name of manufacturer. The fertilizer shall be stored in such a manner that its effectiveness shall not be impaired, and as directed by the Owner's Representative.

2.05 LANDSCAPE PLANTINGS

A. Materials shall be selected by the Village.

PART 3 – EXECUTION

3.01 GENERAL

A. Restoration of the plain grassy areas shall consist of removing all surplus excavated material; and after suitable settlement time (where settlement may be expected due to other excavation work of these Specifications) then installing (as a minimum) four inch (4") layer of topsoil raked into place and seeding the area to be restored. For all seeded areas, straw mulch shall be placed to retain the seed and water. The Contractor shall be responsible for the maintenance of seeded areas as specified herein.

3.02 PLACING TOPSOIL

A. Place topsoil in all areas where seeding and planting will be performed. Place to the required depths, up to finished grade elevations.

B. Use topsoil in relatively dry state. Place during dry weather.

C. Fine grade topsoil, eliminating rough and low areas to ensure positive drainage. Maintain levels, profiles and contours of subgrades.

D. Remove stone, roots, grass, weeds, debris and other foreign material while spreading.

E. Manually spread topsoil around trees, plants, equipment and building(s) to prevent damage which may be caused by grading equipment.

F. Lightly compact placed topsoil.

3.03 MAINTENANCE

A. The Contractor shall furnish all watering equipment for planting and maintenance until Final Payment.

B. All seeded areas shall be maintained by the Contractor until the Work is accepted with a minimum maintenance period of 30 days commencing with the completion of seed installation.

B. Maintenance shall consist of watering, mowing, fertilizing and repair of damaged areas as directed by the Owner's Representative.

C. Erosion, damage or other irregularity requiring repair during the maintenance period shall be made as directed by the Owner's Representative.

D. When directed by the Owner's Representative, any defective or unsatisfactory Work shall be removed and replaced by the Contractor at the Contractor's expense, if such defective or unsatisfactory Work is determined by the Owner's Representative to be the fault of the Contractor.

PART 4 – MEASUREMENT AND PAYMENT

4.01 TOPSOIL, SEED, AND MULCH

A. Measurement and payment shall be in accordance with the IDOT Standard Specifications for Road and Bridge Construction for:

TOPSOIL FURNISH AND PLACE, 4” – Section 211
SEEDING CLASS 1A – Section 250
MULCH, METHOD 3 – Section 251

--- END OF SECTION ---

DUCTILE-IRON PIPE AND FITTINGS
SECTION 33 05 19

PART 1 - GENERAL

1.1 DESCRIPTION:

A. Provide and test ductile-iron pipe and fittings, as indicated and specified.

B. Options:

1. For buried exterior pipelines provide push-on joint pipe.

a. Provide restrained push-on pipe as indicated and specified.

b. Provide either restrained push-on joint fittings as specified and indicated or provide mechanical joint fittings with restraint system as specified herein.

c. Wrap pipe with polyethylene sheets complying with ASTM D1248.

2. For piping exposed as in buildings and galleries, provide flanged or rigid-joint, grooved-coupled pipe and fittings.

3. Cast iron pipe and fittings are not acceptable.

1.2 RELATED WORK:

A. Section 31 23 16: Earth Excavation, Backfill, Fill and Grading

B. Section 22 13 13: Process Valves and Appurtenances

C. Section 22 13 19: Process Piping and Appurtenances

1.3 REFERENCES:

A. American National Standards Institute, Inc. (ANSI) Standards:

1. A21.4: Cement-Mortar Lining for Ductile-Iron Pipe and Fittings for Water.

2. A21.10: Ductile-Iron and Gray-Iron Fittings, 3 in. through 48 in., for Water and Other Liquids.

3. A21.11: Rubber-Gasket Joints for Ductile-Iron and Gray-Iron Pressure Pipe Fittings.

4. A21.15: Flanged Ductile-Iron Pipe with Threaded Flanges.

5. A21.50: Thickness Design of Ductile-Iron Pipe.

6. A21.51: Ductile-Iron Pipe, Centrifugally Cast in Metal Molds, or Sand-Lined Molds, for Water or Other Liquids.

7. A21.53: Ductile-Iron Compact Fittings, 3-in through 16-in. for Water and Other Liquids.

8. B16.1: Cast-Iron Pipe Flanges and Flanged Fittings, Class 25, 125, 250, and 800.

9. B16.21: Nonmetallic Flat Gaskets for Pipe Flanges.

10. B16.42: Ductile Iron Pipe Flanges and Flanged Fittings.

B. American Society for Testing and Materials (ASTM) Publications:

1. A307: Carbon Steel Bolts and Studs, 60,000 psi Tensile.

C. American Water Works Association (AWWA) Standards:

1. C606: Grooved and Shoulder Joints.

1.4 SUBMITTALS:

A. Submit the following in accordance with Section 01 33 00:

1. Piping layouts in full detail.

2. Location of pipe hangers and supports.

3. Location and type of thrust blocks.

4. Large scale details of wall penetrations and special castings.

5. Schedules of all pipe, fittings, special castings, couplings, expansion joints, and other appurtenances.

B. Certificates: Sworn and notarized certificates in duplicate of shop tests showing compliance with appropriate standard.

C. Manufacturer's Literature:

1. Catalog cuts of joints, couplings, harnesses, expansion joints, gaskets, fasteners and other accessories.

2. Brochures and technical data on coatings and lining's and proposed method of application.

1.5 QUALITY ASSURANCE:

A. Provide in accordance with Section 01 43 00 and as specified.

B. Inspect and test at foundry according to applicable standard specifications.

C. Owner reserves right to inspect and test by independent service at manufacturer's plant or elsewhere at his own expense.

D. Visually inspect before installation.

1.6 DELIVERY, STORAGE AND HANDLING:

A. Provide in accordance with Section 01 60 00 and as specified.

PART 2 - PRODUCTS

2.1 PIPE:

A. Ductile Iron:

1. Design conforming to ANSI A21.50.

2. Manufacture conforming to ANSI A21.15 or ANSI A21.51.

3. Thickness class, unless otherwise indicated or specified:

a. Minimum Thickness Class 52.

b. Minimum thickness Class 53 for use with threaded flanges.

c. Minimum thickness Class 53 for use with flanged pipe.

d. Minimum thickness for use with grooved couplings conforming to AWWA C606.

2.2 PIPE FOR USE WITH COUPLINGS:

A. As specified above except ends shall be plain.

B. With bolted split sleeve couplings, ends cast or machined at right angles to axis.

C. With grooved type coupling:

1. Ductile-Iron of thickness class specified above.

2. Grooved End dimensions conforming to AWWA C606 for flexible or rigid joints to suit joint requirements.

2.3 FITTINGS:

A. Provide fittings conforming to ANSI A21.10 or ANSI A21.53, at least Class 150.

B. Provide all bell push-on or mechanical-joint fittings unless otherwise indicated or specified.

C. Face and drill flanged fittings conforming to ANSI A21.10 except special drilling or tapping as necessary for correct alignment and bolting.

D. If flanged fittings are not available under ANSI A21.10 provide fittings conforming to ANSI B16.1 in 125 lb. pressure class.

E. Provide standard base fittings where indicated.

F. Provide grooved-end fittings ductile-iron conforming to ANSI A21.10 (AWWA C110) for center-to-face dimensions.

1. End preparation for grooved-ends conforming to AWWA C606 for flexible or rigid joints as required by type of joint.

2.4 NONSTANDARD FITTINGS:

A. Acceptable design.

B. Same diameter and thickness as standard fittings.

C. Manufactured to meet requirements of same specifications as standard fittings except for laying length and types of ends.

2.5 ADAPTERS:

A. Furnish and install for joining pipe of different types, unless solid sleeves indicated.

1. Provide ends conforming to above specifications for appropriate type of joint, to receive adjoining pipe.

2. Joining two classes of pipe may be of lighter class provided annular space in bell- and-spigot type joints sufficient for jointing.

2.6 JOINTS:

A. Provide push-on joint and mechanical joint pipe as indicated with necessary accessories, conforming to ANSI A21.11.

1. Provide gasket composition suitable for exposure to liquid within pipe.

B. Provide pipe flanges and accessories conforming to ANSI A21.15.

1. Provide flat faced flanges.

2. Provide 1/8 in. thick, full faced gaskets suitable for exposure to liquid within pipe.

C. Provide restrained joint on pipe and fittings where indicated. Provide restrained joint which is:

1. Boltless

2. Capable of being deflected after assembly

3. Designs using set screws or requiring field welding are not acceptable.

4. Manufacturers:

a. American Cast Iron Pipe Co. Flex-Ring.

b. U.S. Pipe TR FLEX.

c. Clow Super-Lock.

d. Or acceptable equivalent.

2.7 MECHANICAL JOINT FITTINGS – RESTRAINT SYSTEM

A. Provide restraint devices for pipe consisting of multiple gripping wedges incorporated into a follower gland meeting requirements of ANSI/AWWA C110/A21.10.

1. Mechanical joint restraint shall require conventional tools and installation procedures per AWWA C600, retaining full mechanical joint deflection during assembly and allowing joint deflection after assembly.

2. Provide actuation of the gripping wedges ensured with torque limiting twist off nuts.

3. Provide restraint devices Listed by Underwriters Laboratories (3” through 24” inch size) and Approved by Factory Mutual (3” through 12” inch size).

B. Working Pressure Rating:

1. 16-in and Smaller: 350 psi

2. 18-in and Larger: 250 psi

3. Minimum safety factor of 2 to 1.

C. Materials:

1. Gland body, wedges and wedge actuating components: Grade 65-45-12 ductile iron in accordance with ASTM A536.

2. Ductile iron gripping wedges: Heat treated, 370 to 470 BHN.

3. Provide three (3) test bars incrementally poured per production shift as per Underwriter's Laboratory (U.L.) specifications and ASTM A536. Testing for tensile, yield and elongation in accordance with ASTM E8.

4. Provide chemical and nodularity tests performed as recommended by the Ductile Iron Society, on a per ladle basis.

5. Provide an identification number consisting of year, day, plant and shift (YYDDD)(plant designation)(Shift number) cast into each gland body.

6. Record all physical and chemical test results such that they can be accessed via the identification number on the casting. Provide the Material Traceability Records (MTR's) available, in hard copy.

D. Manufacturer:

1. EBAA Iron MegaLug Series 1100 or acceptable equivalent product

2.8 FLANGE ADAPTERS:

A. Provide restrained flange adaptors for pipe consisting of multiple individual gripping wedges incorporated into a follower gland meeting requirements of ANSI/AWWA C110/A21.10.

1. Provide actuation of the gripping wedges ensured with torque limiting twist off nuts.

2. Provide restraint devices Listed by Underwriters Laboratories (3-in through 12 in size) and Approved by Factory Mutual (4-in through 12-in size).

B. Joint Deflection capability:

1. 3-in thru 8-in: 5 degrees

2. 10-in and 12-in: 3 degrees

3. 14-in and 16-in: 2 degrees

C. Provide flange adaptor to maintain seal with and 0.6 inch gap between end of pipe and mating flange

D. Working Pressure Rating:

1. 16-in and Smaller: 350 psi

2. 18-in: 300 psi

3. Minimum safety factor of 2 to 1.

E. Materials:

1. Gland body, wedges and wedge actuating components: Grade 65-45-12 ductile iron in accordance with ASTM A536.

2. Ductile iron gripping wedges: Heat treated, 370 to 470 BHN.

3. Provide three (3) test bars incrementally poured per production shift as per Underwriter's Laboratory (U.L.) specifications and ASTM A536. Testing for tensile, yield and elongation in accordance with ASTM E8.

4. Provide chemical and nodularity tests performed as recommended by the Ductile Iron Society, on a per ladle basis.

5. Provide an identification number consisting of year, day, plant and shift (YYDDD)(plant designation)(Shift number) cast into each gland body.

6. Record all physical and chemical test results such that they can be accessed via the identification number on the casting. Provide the Material Traceability Records (MTR's) available, in hard copy.

F. Manufacturer:

1. EBAA Iron MegaFlange Series 2100 or acceptable equivalent product

2.9 FLEXIBLE CONNECTIONS:

A. Provide double-ball flexible expansion joint.

1. Flexible expansion joints shall be manufactured of ductile iron in accordance with ASTM A536 Grade 65-45-12.

2. Each flexible expansion joint shall be capable of deflecting and expanding at the same time.

3. Each ball joint shall possess an external rubber boot to prevent penetration of outside debris.

4. All hardware nuts, bolts and straps shall be type 304 stainless steel.

5. All ductile iron components shall be coated internally and externally with 15 mils of fusion bonded epoxy and shall be holiday testes with a 1500 volt spark test, both of which conform to the requirements of ANSI/AWWA C213.

6. Every flexible joint unit shall be cycled and pressure tested at 350 PSI for 3”-24” and 250 PSI for 30” and above prior to shipment. Flexible expansion joints shall be Star Pipe Products, Starflex Series 5000 or approved equal.

2.10 BOLTED SPLIT SLEEVE COUPLINGS:

A. Provide in accordance with Section 22 13 19.

B. Pressure rating at least equal to that of related pipeline.

C. Provide with gaskets of composition suitable for exposure to liquid within pipe.

2.11 GROOVED COUPLINGS:

A. Conform to AWWA C606.

B. Minimum pipe wall thickness specified under "Pipe For Use With Couplings."

C. Where grooved couplings are indicated to provide for expansion or flexibility, cut pipe grooves to provide necessary expansion or flexibility.

D. Where grooved couplings are used instead of flanged joints, joint to be of rigid type with pipe grooves cut to bring pipe ends together. Beam strength of joint shall be equal to or greater than that of flanged joint.

E. Hardware: Type 316 Stainless Steel

F. Manufacturer:

1. Victaulic Company or acceptable equivalent product.

2.12 FILLING RINGS:

A. Provide where necessary.

B. Materials, workmanship, facing, and drilling, conforming to 125-lb. ANSI Standard.

C. Suitable length with nonparallel faces and corresponding drilling, if necessary, for correct assembly of adjoining piping or equipment.

2.13 CONNECTIONS - TAPPED:

A. Provide service saddles for all taps for lines 24-inch and smaller.

1. Body: Ductile iron ASTM A395 or Bronze.

2. Straps and Hardware: Type 316 stainless steel.

2.14 GASKETS, BOLTS, AND NUTS:

A. Provide ring or full face synthetic rubber gaskets for flanged joints and neoprene faced phenolic for insulating gaskets.

1. 1/8 in. thick.

B. Make flanged joints with:

1. Bolts.

2. Bolt studs with nut on each end.

3. Studs with nuts where flange is tapped.

4. Plastic bolt sleeves and washers for insulating joints.

C. Number and size of bolts conform to same ANS as flanges.

D. Provide bolts and nuts, except as specified or indicated, Grade B, ASTM A307.

E. Provide bolt studs and studs of same quality as machine bolts.

F. Provide Type 316 stainless steel bolts, washers and nuts in the following areas:

1. Submerged

2. Wet Wells

3. Chemical Area

2.15 COATINGS:

A. Flanged Pipe and Fittings:

1. Flanged pipe in the wet well and valve vault shall have an exterior Polyamidoamine Epoxy Coating.

2. Coating shall be Tnemec Pota-Pox Plus, Series N140T, or approved equal.

B. Valves:

1. Valves in wet well and valve vault shall have a high solids epoxy coating, similar to that stated in 2.15.A.

C. Non-Flanged Pipe and Fittings:

1. Non-flange pipe in the wet well and valve vault shall be coated in the field with a high solids epoxy coating similar to that stated in 2.15.A.

2.16 POLYETHYLENE WRAP:

A. Polyethylene sheet shall comply with A.S.T.M. D1248, with a thickness of not less than eight mils.

PART 3 - EXECUTION

3.1 INSPECTION BEFORE INSTALLATION:

A. Visually inspect.

3.2 HANDLING AND CUTTING:

A. Mark pipe and fittings "Rejected" and remove from site when cracked or has received a severe blow.

B. If permitted, cut on sound barrel at a point at least 12 in. from visible limit of crack, at Contractor's expense.

C. Machine cut with milling type cutters, knives, or saws. Snap cutters, torch, or hammer and chisel NOT ALLOWED. Examine for possible cracks.

D. Chamfer cut ends if used for push-on joints.

E. Do not cut polyethelene lined pipes.

F. Do not cut glass lined pipes.

3.3 INSTALLATION:

A. Piping Support: Provide in accordance with Section 22 13 13.

B. Pipe and Fittings:

1. Remove and replace defective pieces.

2. Clear of all debris and dirt before installing and keep clean until accepted.

3. Lay accurately to lines and grades indicated or required. Provide accurate alignment, both horizontally and vertically.

4. Provide firm bearing along entire length of buried pipelines.

5. Pipe and fittings shall be protected by loosely wrapping with polyethylene sheets installed per AWWA C105/ANSI A21.5-93.

C. No deflection of pipe will be allowed unless specified on the plans or approved by the Engineer.

3.4 JOINTS AND COUPLINGS:

A. Push-on Joints:

1. Insert gasket into groove bell. Apply thin film of nontoxic gasket lubricant over inner surface of gasket in contact with spigot end.

2. Insert chamfered end into gasket. Force pipe past it until it seats against socket bottom.

B. Flanged Joint:

1. Make up tight.

2. Do not put strain on nozzles, valves, and other equipment.

C. Mechanical Joints:

1. Wire brush surfaces in contact with gasket and clean gasket.

2. Lubricate gasket, bell, and spigot with soapy water.

3. Slip gland and gasket over spigot, and insert spigot into bell until seated.

4. Seat gasket and press gland firmly against gasket.

5. After bolts inserted and nuts made finger-tight, tighten diametrically opposite nuts progressively and uniformly around joint by torque wrench. Torque bolts to values specified above.

D. Flexible Connections:

1. Flexible connections shall not be used to correct mis-alignments made during construction, but shall be installed with minimal alignment change between flanged ends..

E. Grooved Couplings:

1. Clean grooves and other parts.

2. Coat ends of pipe and outside of gasket with soft soap or silicone and slip gasket over one pipe end.

3. Bring pipes to correct position and center gasket over pipe ends with lips against pipe.

4. Place housing sections, insert bolts and tighten nuts until housing sections in metal- to-metal contact.

5. After assembly and inspection and before backfilling, coat exterior surfaces of buried couplings, including bolts and nuts, with heavy-bodied bituminous mastic.

F. Tapped Connection:

1. Drill and tap normal to longitudinal axis.

2. Drilled by skilled mechanics using proper tools.

3. Use only tapered threads.

3.5 TESTING:

A. Clean of all dirt, dust, oil, grease and other foreign material, before conducting pressure and leakage tests.

B. Pressure and Leakage Tests:

1. Conduct combined pressure and leakage test in pipelines in accordance with Section 41-2.14 of the Standard Specification for Water and Sewer Main Construction in Illnois.

2. Furnish and install temporary testing plugs or caps; pressure

pumps, pipe connections, meters, gages, equipment, and labor.

3. Test when desired and comply with specifications.

4. Test pipelines in excavation or embedded in concrete before backfill or placing of concrete and test exposed piping before field painting.

5. Fill section of pipe with water and expel air. If hydrants or blowoffs are not available at high points for releasing air, make necessary taps and plug after test completion.

6. Maintain section full of water for 24 hours before conducting combined pressure and leakage test.

7. Conduct pressure and leakage test consisting of first raising water pressure (based on elevation of lowest point of section under test and corrected to gage location) to pressure in psi numerically equal to pipe pressure rating, but not more than 150 psi.

8. If unable to achieve and maintain specified pressure for two hours with no additional pumping, section fails test. If specified pressure is maintained, the Contractor shall proceed immediately with the leakage test.

9. If section fails pressure and leakage test, locate, uncover, and repair or replace defective pipe, fitting, or joint, at no additional expense. Conduct additional tests and repairs until section passes test.

10. Modify test procedure only if permitted by Engineer.

3.6 TOUCH-UP FIELD PAINTING:

A. Repair or replace damaged or defective coating areas.

B. Remove damaged or defective coatings by sand-blast cleaning in accordance with SSPC-SP-6, Commercial Grade, immediately prior to priming.

C. Before priming, provide surfaces dry and free of dust, oil, grease and other foreign material. Apply approved coating in accordance with valve manufacturer's printed recommendations.

D. When small areas of coating need touch up, surface preparation may be done with suitable power needle gun to match specified blast cleaning.

PART 4 – MEASUREMENT AND PAYMENT

4.01 MEASUREMENT:

A. Measurement will not be made for the Work specified in this Section.

4.02 PAYMENT

A. Payment for the Work specified in this Section will be made at the price per foot for DUCTILE IRON FORCE MAIN, 6-INCH.

--- END OF SECTION ---

WASTEWATER PUMPING CONTROL SYSTEM
SECTION 33 09 30

PART 1 – GENERAL

1.01 GENERAL SPECIFICATIONS

A. The intent of this specification is to provide a complete, integrated Pump Control System as described herein. It shall be factory assembled, wired and tested. The manufacturer shall supply AutoCAD schematic drawings complete with a bill-of-materials and catalog cut sheets for submittal purposes. AutoCAD as-wired drawings shall be supplied upon completion of construction. Two (2) copies of these drawings shall be provided inside the pump control panel for installation assistance. An equipment data tag shall be permanently affixed on the inside of the exterior door with the station designation, power source, pump horsepower, pump full load amps and the sizes of all fuses utilized in the system. In addition to the label requirements of UL 508A, an engraved legend plate shall be permanently affixed on the inside of the exterior door with the name, address and telephone number of the service representative for the control panel.

The wet well is classified as a Class I, Division 1, and Group D hazardous location per NFPA Article 820. All applicable installation procedures per NEC, ANSI, EPA, and all other codes and laws for this installation requirement shall be followed. Intrinsically safe barriers shall be provided for the level sensors located in the wet well. All pump and control conduits entering or exiting the pump control panel shall terminate in a vented termination enclosure.

The pump power and level sensor cables will run through conduit and shall terminate in a junction box mounted adjacent to the pump control panel. The conduit between the junction box and control panel will be sealed. The conduit between the wet well and junction box will be sealing with “re-enterable” conduit seal. In this way the control panel and junction box are protected by conduit seal and the pump can be removed and electrically disconnected (at the junction box) without disturbing the control panel seal.

1.02 QUALITY ASSURANCE

A. The pump control panel shall be supplied and fabricated by a current UL508A listed industrial control panel manufacturer. The panel manufacturer shall show its UL follow-up service procedure file number on submittals. All devices within the panel shall be UL listed and/or recognized where applicable and shall be mounted and wired in accordance with the most current edition of UL508, UL698A and NFPA.

The panel manufacturer shall have a minimum of ten (10) years of experience manufacturing systems specifically for water and wastewater applications. The

Pump Control System shall be fully tested by the factory prior to shipment. It shall include testing of both power and control devices as well as for all control functions. A final inspection shall be performed prior to shipment and a copy of this form shall be provided with the panel.

The Pump Control System described is manufactured by Wunderlich Malec Environmental, Inc., 937 National Avenue, Addison, IL 60101 without substitution.

1.03 SUBMITTALS

A. Compliance Submittals:

1. Submit as specified in Section 01 33 00.

2. Includes, but not limited to, the following:

a. Fabrication drawings, front elevation, wiring diagrams, and bills of material for pump control panel.

b. Engraving schedule and physical dimensions for nameplates and phenolic overlays.

c. Electrical and mechanical connection diagrams for all separately mounted instruments.

d. Individual specification or descriptive sheets for instruments and similar major system components to conform to ISA S20.

e. Instruction Books:

1) For all instruments, transducers, and similar major system equipment.

2) In addition to the requirements as specified in Section 01 33 00, submit single-page specification sheets for each instrument which lists the type, model number, function, scale, input, actuation, output and other specific features of that instrument.

f. Programming and Configuration Records

1) The contractor shall provide complete and thoroughly documented records of the programming and configuration of the PLC and the OIT. PLC documentation shall include a searchable label and a plain-English description of the function of each bit or word of logic used and a description of each

ladder logic rung or equivalent unit of the program. These records shall be furnished in both PDF document format and in the application files used by the software package used to program and configure these PLC and OIT. The software product name, revision number, and vendor shall be specified for each PLC and OIT.

2) Records of the adjustable hardware settings such as selector and DIP switches shall be provided. Records of field configurable software settings for instrumentation shall also be provided, which shall include all settings which differ from the factory default settings. These records may consist of PDF images of the instrumentation manual pages that describe these hardware and software settings with the switch positions and software settings clearly marked.

3. The panel layout shall be approved by the Owner.

1.04 Basic Operation

A. The pumps shall be operated automatically or manually as a pump down, lead, off system. Each pump shall be controlled primarily through a “Hand-Off-Auto” three position selector switch. Control function requirements are further defined in the control section of these specifications.

1. Position Commands

a. OFF - In this position the applicable pump will not run under any circumstance.
b. HAND - In this position the applicable pump shall run without regard for the level sensing commands and will rely on operator discipline to run and stop. The over temperature lock out will be active in this mode.
c. AUTO - In this position both pumps shall be controlled by level sensing commands. The level sensing equipment will sense the appropriate level in the wet well and initiate start and stop commands to the pump. The over temperature lock out will be active in this mode.

2. Pump Sequence

a. LEVEL 4 - High Level Alarm
b. LEVEL 3 - Start lead pump; pumps shall alternate on each call
c. LEVEL 2 - Off; all pumps stop
d. LEVEL 1 – Low Level Alarm

3. Pump Operation

    a. On sump level rise, the switches shall energize and start lead pump. With lead pump operating sump level shall lower until the off level is reached, thereby de-energizing the lead pump.
    b. Alternating relay shall index on stopping of pump so that lag pump will start on next operation.
    c. If level continues to rise when the lead pump is operating, and the high level is reached, the high-level alarm shall be activated.
    d. If one pump should fail for any reason, the second pump shall operate on the override control.
    e. Both pumps may not be operating at the same time per the requirement of the Metropolitan Water Reclamation District of Greater Chicago (MWRDGC).

4. Utility Power

    a. Utility power to the panel shall be 120V/240 volts, 4-wire, 3 phase, 60 Hz.

5. Wet Well

    a. The wet well is classified as a Class I, Division 1, and Group D hazardous location as per NFPA Article 820.

PART 2 - PRODUCTS

2.01 CONTROL PANEL

A. Enclosure

A U.L. Listed and NEMA Type 3R rated enclosure properly sized to contain the required components of the control system(s) shall be applied as per the following specifications:

1. The enclosure shall be constructed of 14 gauge 304 stainless steel body and door(s) with continuous stainless steel piano hinge. A drip shield shall be welded on the top of the enclosure; screws to secure the drip shield shall not be allowed. The enclosure shall be suitable for pad mounting as shown on the drawings and shall consist of three separate compartments. Electrical service entrance equipment shall be located in one compartment, high voltage power and control equipment in the second and low voltage control in the third. All hardware shall be corrosion resistant. A 3-point latch with nylon rollers and padlock provisions on handle shall be provided on each compartment. Oil-resistant door gasketing around all four sides of each opening shall be applied. Painted

white enamel steel mounting panel(s) shall be provided for mounting of components.

2. Voltage identification labels and comprehensive Arc Flash Hazard warning labels shall be provided. To maintain the environmental rating of the specified equipment and enclosure, install in the openings only certified or recognized devices with the same integrity as the enclosure, in compliance with the installation instructions of the device.

B. Enclosure Accessories

The enclosure shall also provide for and include the following mechanical and electrical facilities.

1. Inner Swing Panel - Provision of a “dead front” feature shall be provided using a full size hinged inner door to mount all operator devices. Material shall be painted steel with turned down flanges on all four sides for added rigidity. The inner door(s) shall be large enough to fill the entire opening of the enclosure, the screw used to secure the inner swing door mounting hardware to the enclosure shall be UL and NEMA Type 4X rated/listed and shall not violate the environmental integrity of the enclosure. Mounting hardware which penetrates the enclosure and violates the environmental rating of the enclosure shall not be allowed. Quarter-turn latches shall be provided for securing the inner door in the closed position; captive screws are not acceptable. In addition, an inner door handle shall be provided for operator convenience.

2. Condensation Heater - A 200 watt (minimum), 120VAC heater shall be provided to protect the enclosure from the harmful effects of condensation corrosion and low temperatures. The heater shall be complete with an adjustable thermostat. Branch protection shall be provided.

C. High Voltage Section

1. Main Circuit Breaker - A service entrance rated main circuit breaker sized for the incoming power conductors shall be provided for the main power connection. Breaker shall be a molder case, thermal magnetic design with fixed trip and 25kA interrupting rating at 240VAC. Main breaker shall be Square D.

2. Surge Protector - The system shall be protected by a surge protector for the electrical service and shall be capable of handling up to 40kA (8/20us) transient amps per phase. It shall be parallel MOV design and provide protection for transient surges as defined in ANS/IEEE C62.41 and UL1449 without degradation of components. The enclosure shall be molded UV resistant polycarbonate or equal material. All electrical

connections shall be sealed in a UL component recognized epoxy to exclude moisture, dirt and corrosion. Leads shall be color coded and a minimum of 18 inches long. Surge protector shall be Erico International Corporation TDX series.

3. Lugs - Lugs shall be provided for both incoming service neutral and ground. Lugs shall be suitable for copper and/or aluminum wire.

4. Manual Transfer Switch - A manual transfer switch sized for the incoming service shall be provided. The switch shall consist of two molded case circuit breakers and a mechanical interlock to prevent both breakers from being simultaneously closed. The normal breaker shall be connected to the load side of the automatic transfer switch. The emergency breaker shall be connected to the portable generator receptacle. Manual transfer switch shall be Square D.

5. Generator Receptacle - A portable generator receptacle shall be provided to allow emergency connection of the Owner's portable generator. The units shall be a heavy duty circuit breaking receptacle assembly suitable for three phase, four wire service. Receptacle shall be Crouse Hinds AR2041-S22 with AJ78 back box for compatibility with Owner's existing generator.

6. Automatic Transfer Switch - Provide space in the control panel to install an automatic transfer switch provided by the Generator Manufacturer. See Section 26 36 23 – Automatic Transfer Switch for more information.

D. Motor Control Section

1. Branch Disconnect and Short Circuit Protection - Each pump shall have a thermal magnetic circuit breaker and starter sized for the pump motor to be supplied. The starter shall be single speed, NEMA rated and UL Listed, full voltage non-reversing type complete with a solid state overload relay providing Class 10 overload and ground fault protection. The relay shall be set based on the actual pump full load amps and service factor, and not NEC Table 430-150. Auxiliary contacts shall be provided as required by the system.

2. Power Distribution System - Associated with this installation will require the individual branch disconnect and short-circuit protection to have a U.L. interrupting rating of 25 kA at 240 VAC.

3. Control Power - The 120 VAC, single-phase power shall be derived from one leg of the power to neutral.

a. Control power shall have an overcurrent protection device suitable for the interrupting requirements of the system. Fuses and branch circuit breakers shall be provided in accordance with NEC and the system requirements. UL489 applications shall be met utilizing circuit breakers. Fuses are acceptable as supplementary protection.

b. Provide branch protection for the sump pump receptacle, a cabinet mounted GFCI receptacle and lights, power for the controls, generator block heater power, generator battery charger power, flow transmitter power, valve vault lights, valve vault receptacle power, meter vault receptacle power, and two spare breakers.

4. Three Phase Power Monitor – A U.L. recognized three-phase power monitor shall interrupt the control power in the event of phase loss, phase reversal, low voltage and phase unbalance. It shall have primary fuse protection. Contacts shall be rated for 15A resistive at 120VAC. The three-phase power monitor shall automatically reset when proper power is re-applied.

E. Control Section

1. Components - Operator control devices shall be 30mm, NEMA and U.L. listed for Types 12, 3R, 4 and 4X. Contact blocks shall be self-wiping and color coded bridge type rated at 10A and must have a rated insulation of 600V. Pilot lights shall be full voltage, push-to-test type with LED lamps. Terminal connections shall be suitable for two 14 AWG control wires. All control and time delay relays shall be DPDT minimum, rated 10A @ 120VAC, socket mount type. Sockets shall have pressure plate terminals that accept two 14AWG wires and shall be rated a minimum of 300V. All terminal blocks supplied shall be box lug type rated at the proper voltage/amperage and shall accept two 14AWG wires.

   All control wiring shall be minimum 16 AWG, MTW and shall be color coded in accordance with all applicable codes and laws, spiral wrap, tie wrap, fasteners and wire duct shall be provided as required for aesthetics and safety.

   All components mounted on the door shall be wired with insulated connectors (where "finger proof' terminals are not provided) to prevent accidental shock hazards. All components on the back panel shall be mounted on DIN rail or fastened via drilled and tapped screws to facilitate easy component replacement. Pop rivets shall not be allowed. Ammeter loops shall be provided between the disconnect switch and combination starter for better heat dissipation and an easy means of meter readings.

2. Mode Select - Method of operation shall be by a three position maintained "Hand-Off-Auto" selector switch for each pump which shall provide for mode selection. A running and overload trip pilot light shall be provided for each pump.

3. Pump Thermal Trip and Seal Leak Detection - Seal leak and over temperature monitoring relays specifically designed to interface with the pump monitoring system shall be supplied by the pump manufacturer for mounting in the control panel. One relay shall be provided for each pump. The relays shall monitor the shaft seal and stator temperature of the pump motor. Over temperature shall be detected by a low temperature switch mounted on the stator. An over temperature condition will cause immediate shutdown and the pump shall remain locked out until manually reset. The over temperature function shall incorporate a bistable relay that retains its position during power failures. Detection of a seal leak occurring within the motor chamber shall not shutdown or lockout the pump. Pilot lights (two each pump) shall indicate a thermal trip or seal leak condition.

4. Elapsed Time Meter - Digital non-resettable type hour meters shall be provided for each pump to record hours of operation and labeled accordingly. These shall be wired with insulated connectors to prevent accidental shock hazards.

5. Pump Current - The wiring circuits for each pump shall include a module to indicate the ampere draw of the pump, NK Technologies AT Series, AT0-420. The current transmitter shall provide a 4-20 mAdc output to the PLC that will indicate the pump ampere draw. The PLC logic shall compare the pump ampere draws with an operator adjustable set point and provide an alarm if the current is outside normal conditions. It is the intention of the current monitoring to alarm a pump problem prior to failure of the pump.

6. Intrinsically Safe Barrier - Intrinsically Safe Barriers will be provided per Article 504 of the N.E.C. and ANSI/ISA-RP12.6. Barriers shall be interfaced with each float switch and the submersible level transmitter. Intrinsically safe relays for each wet well float shall be PR Electronics, Part No. 5202B2. Intrinsic Safety Barriers for the wet well level transducer shall be PR Electronics Part No. 5104BB2A to match Owner’s existing equipment.

7. Convenience Outlet - A 15A GFI duplex outlet shall be provided. It shall be mounted on the inner swing door. A dedicated 15A circuit breaker shall be provided for this outlet.

8. Level Controls

a. Controller - The pump controller shall consist of a Programmable Logic Controller (PLC) and Operator Interface Terminal (OIT) to control normal operation of the lift station. Acceptable products for the PLC processor, power supply, input / output modules, and communication modules are Allen Bradley CompactLogix 5380-L310 5069-L310ER.

b. Series and related accessories, no substitutions allowed. The PLC shall be furnished fully programmed by the controls supplier. Programming shall utilize the designated software, Version V21 or higher. The programming and configuration files specific to the pump station shall be furnished, fully documented to the satisfaction of the Owner. Acceptable manufacturer for the OIT are Automation Direct C-more EA9-T8CL with compatible power supply, no substitutions allowed.

   The operator interface shall display wet well level, operating status of the pumps, lift station discharge flow rate, and all active alarm conditions. The OIT shall also be able to support the following:

   1) Display trends of level, flow, and on/off status for each pump on a single screen.

   2) Display history of run time for each pump and total flow for most recent 7-day period

   3) Have a first screen PIN-number entry screen to disable lift station entry alarms with 1-minute time delay.

c. Float Backup Controller - A float backup controller shall be provided to control the pumps in event of failure of the primary level controller. The control system shall be relay/timer based to allow ease of maintenance. A selector switch shall be provided to enable the operator to select float or transducer control. Float-based automatic pump control shall be activated when the high alarm float is tripped or the "heartbeat" pulse output from the PLC is lost for more than 1 minute. When backup control is active, a pilot light shall indicate the condition.

   The float controller shall include a selector switch which will allow the operator to select either pump as the lead pump or allow automatic alternation of the pumps each pumping cycle. An override circuit to start the second pump should the first pump fail shall be provided.

1) Alarms - A weatherproof red flashing incandescent alarm light and a horn rated 90dB at ten feet shall be provided to indicate a high level alarm condition. Alarm power shall be derived from the 120V control power. They shall be mounted on the exterior of the Pump Control Panel and shall be UL recognized for NEMA 4 to maintain the environmental rating of the enclosure. The horn shall be furnished with a disconnecting means.

9. Ethernet switch, Hirschmann Spyder 5 port.

10. Alarms – The following alarm conditions shall be indicated on the OIT and transmitted to the SCADA system. Other station alarms are transmitted to the SCADA system independent of the pump control panel.

    a. Pump 1 fail (motor starter overload and pump protection relay overload and seal failure conditions)

    b. Pump 1 fail (motor starter overload and pump protection relay overload and seal failure conditions)

    c. High wet well level alarm

    d. Low wet well level alarm

    e. Float control system activated

    f. Power failure

    g. Pump chamber lid opened - Hard-wired sensing switch shall be installed

    h. TBE panel door(s) opened, Hard-wired sensing switches shall be installed

    i. Valve vault chamber lid(s) opened – Hard-wired sensing switch shall be installed

    j. Meter vault chamber lid opened – Hard-wired sensing switch shall be installed

    k. Valve vault flooding, float to be installed

    l. Meter vault flooding, float to be installed

    m. On-off status of all pumps

n. Check valve flow confirmation by counterweight arm movement – Hard- wired switches shall be installed.

o. Generator alarms: The control panel shall be designed and the OIT shall be capable of indicating the following alarm conditions of the possible existing, or potential future generator:

1) Generator enclosure opened, Hard-wired sensing switch shall be installed

2) Generator running

3) Generator general failure

4) Generator ready to run

5) Generator fuel level (as a 4-20mA signal)

6) Generator fuel tank containment failure

11. SCADA and Modem. Local controls shall be set up to provide SCADA communication and data set equivalent to the existing SCADA link, plus transmitting the wet well level and discharge flow rate real-time data. Integration of the pump station local controls and supply of the cable modem shall be by the Village's system integrator under a separate contract. The following list of integer value data shall be calculated by the PLC for reading by the public works master SCADA system:

a. Scale Station Flow 0-1000 GPM

b. Gen Runtime

c. Pump 1 Run time Divide value by 12 to get Minutes

d. Pump 2 Run time Divide value by 12 to get Minutes

e. Scaled Wet Well Level 0-30' (0-300)

f. Pump 1 ampere draw

g. Pump 2 ampere draw

h. Scaled Fuel Level 0-15"

i. Scaled Station Temperature 0-120 F

j. Total Flow Scaled in 1000's of Gallons

k. From HMI: High Level Alarm Setpoint

l. Trend Value for Level

m. Trend Value for Pump 1 Run

n. Trend Value for Pump 2 Run

o. Pump 1 Vibration Warning

p. Pump 1 Vibration Excessive

q. Pump 2 Vibration Warning

r. Pump 2 Vibration Excessive

F. Instrumentation

1. Submersible Level Transmitter - The level transmitter shall be a hydrostatic pressure unit immersed in the wet well. The housing and the diaphragm shall be of 316 stainless steel. The transmitter shall be supplied with 40 feet of oil resistant steel-reinforced PVC cable. The transmitter shall be 12-30 V DC loop powered providing a 4-20 mA output proportional to level. The transmitter shall be barometrically compensated via a rigid breather tube connected to a panel mounted sealed breather system. Measuring range shall be 0-30 ft. Accuracy shall be 0.5% of full scale. The level transmitter shall be Measurement Specialties 750 to match Owner's existing equipment. The support wire shall be 304 stainless steel aircraft cable and a 15# PVC coated weight shall be attached to cable to hold the switches in place in sump.

2. Float Switches - Sealed non-mercury float switches shall be provided and installed. Floats shall be installed as shown on the plans. The float switches shall be sealed in a corrosion-resistant, Teflon coated, stainless steel housing having a minimum 5" diameter. The support wire shall be 304 stainless steel aircraft cable and a 15# PVC coated weight shall be attached to cable to hold the switches in place in sump. The assembly shall be designed so that levels can be changed without entering the wet well. The float switches shall hang in the sump supported only by the cord that is held to the NEMA 4 junction box or the control panel pedestal.

Three float switches shall be used to control level. Two for pump turn-on and one for pump turn-off. Two float switches shall be provided for alarm.

3. Electromagnetic Flow Meter - Electromagnetic flow meter shall be installed on the discharge piping in the meter pit as shown on the drawings.

    a. Flow meter shall be 6-inch diameter to match the size of the discharge piping. The flow meter sensor shall be mounted to the meter tube. Flow meter shall be Siemens Sitrans FM MAG 5100 W 7ME6520. Meter shall be suitable for operation under continuous submergence conditions. Flow meter transmitter shall be Siemens Sitrans FM MAG 5000 and shall be mounted in the Traffic Box Enclosure in the same TEE compartment as the Pump Control Panel. Accuracy shall be 0. 4%. Transmitter shall have alphanumeric display in English and shall indicate station flow rate in gallons per minute and totalized flow in 1000 gallons. Transmitter shall provide a 4-20mA output signal to the PLC for station flow rate and totalized flow. Provide sufficient length of meter manufacturer recommended cable to connect meter sensor to the pump control panel and potting kit for terminal box.

    b. Furnish space flanged end spool (length to match length of flow meter) to be installed when meter is removed for service. Contractor shall set pipe spool in place to verify fit, then replace with the flow meter as the final installation.

G. Accessories

1. Terminal Box and Cable Protector - A terminal box shall be provided adjacent to the control panel for connection of the level sensors and pumps. It shall contain tubular screw type terminal blocks for level sensor, float switches, pump power and control leads. In addition, it shall include a barrier to separate the power and intrinsically safe circuit provisions per NEC Article 504 of and ANS/ISA-RP12.6. The terminal box shall be sized for the application, fabricated of 304 stainless steel, rated NEMA 4X and include a padlockable handle.

    The terminal box shall be mounted atop a cable protector. The cable protector shall be fabricated of 304 stainless steel and shall be a minimum of 20” height with width and depth matching the terminal box. The door and sides of the cable protector shall be diamond pattern, expanded 304 stainless steel with 75% open area. The door shall include a padlockable handle. Contractor shall provide Kellums type cord grips to support all cables entering the terminal box.

2. Cable Modem - Each panel shall be supplied with a power supply for remote SCADA communications and space for installation of a cable modem supplied by the Owner's SCADA supplier. All SCADA work remote from the pump station will be supplied by the Owner's SCADA supplier under a separate contract with the Owner. Contractor shall coordinate with SCADA supplier to allow access into panel and confirmation of lift station monitoring with central SCADA at Village Public Works.

PART 3 - EXECUTION

A. Installation

1. Cleaning - The control panel shall be cleaned of accumulated debris or foreign matter of any kind, and shall be free from such accumulations at the time of final inspection.

B. Testing - Submit a complete testing protocol for the control of the lift station. Protocol shall include:

1. Verification of all I/O points

2. Calibration of all transmitters

3. Demonstration of transducer based control.

4. Demonstration of float backup control.

5. Validation of all SCADA communications

C. As Installed Drawings - Two (2) sets of as-installed drawings of all system components shall be submitted to the Engineer after startup and acceptance of the system. One set of drawings shall be included in the O&M instructions described below. One set shall be placed inside the control panel. Digital copies shall be e-mailed to the Village.

D. Supervisory Services - The equipment manufacturer shall provide supervisory personnel as follows: one 8 hour day during installation of the pumps, one eight hour day for equipment start-up and operator training, one 8 hour day for validation of SCADA communications and one 4 hour period after pumps have been operating approximately 30 days for equipment adjustment and additional operator training. The field supervisor shall be a trained employee of the controls integrator.

Personnel shall make the necessary test and adjustments to place the equipment into proper operation. The instructions shall include demonstrations, assistance, and review of the operation and maintenance manual.

E. Operation and Maintenance Instructions The manufacturer shall provide a digital copy of “Operation and Maintenance Instructions” which shall be transferred to the Owner. The instructions shall define the sequence and timing of the necessary controls, valves, pumps, and meters.

F. Guarantee - All equipment shall be guaranteed for a period of one year from the date of acceptance of the project by the Engineer. During this period of time the pump station shall pump at or above the design flow rate and function in accordance with these plans and specifications.

All adjustments necessary to comply with this guarantee shall be made at the Contractor’s expense.

PART 4 – MEASUREMENT AND PAYMENT

4.01 MEASUREMENT:

A. Measurement will not be made for the Work specified in this Section.

4.02 PAYMENT

A. Payment for the Work specified in this Section will be made at the lump sum prices for:

1. WASTEWATER PUMPING CONTROL SYSTEM COMPLETE

a. Includes all work in this Section including the Automatic Transfer Switch specified in Section 26 36 23.

--- END OF SECTION ---

PUBLIC SANITARY GRAVITY PIPING
SECTION 33 31 11

PART 1 - GENERAL

1.1 DESCRIPTION:

A. This work shall be done in accordance with Section 30 of the Standard Specifications for Water and Sewer Construction in Illinois, Current Edition, except as herein modified.

1.2 SUBMITTALS:

A. Submit the following in accordance with Section 01 33 00:

1. Piping and couplings.

B. Manufacturer's Literature:

1. Catalog cuts of joints, couplings, harnesses, expansion joints, gaskets, fasteners and other accessories.

2. Brochures and technical data on coatings and lining's and proposed method of application.

1.3 QUALITY ASSURANCE:

A. Inspect and test at manufacturer’s facility according to applicable standard specifications.

B. Owner reserves right to inspect and test by independent service at manufacturer's plant or elsewhere at his own expense.

C. Visually inspect before installation.

1.4 DELIVERY, STORAGE AND HANDLING:

A. Provide in accordance with Section 01 60 00 and as per manufacturer’s requirements.

PART 2 - PRODUCTS

2.1 PIPE:

A. PVC C-900

1. All pipe shall meet the requirements of AWWA C-900, UL 1285, CAN/CSA-B137.3 and BNQ3624-250 Standards, as indicated, for potable water transmission mains and for fire protection systems.

2. The gasketed joint shall meet the requirements of ASTM D-3139, and the joint gasket shall conform to ASTM F-477.

B. GRAVITY PIPE COUPLINGS

1. Couplings shall be non-shear Band Seal Couplings or approved equal.

PART 3 - EXECUTION

3.1 INSTALLATION:

A. This work shall be done in accordance with Section 30 of the Standard Specifications for Water and Sewer Construction in Illinois, Current Edition, except as herein modified. Pipe bedding, initial backfill and final backfill shall be in accordance with the detail “Trench Details” as shown non the plans. Pipe shall be placed in accordance with Section 30. Testing for acceptance of sanitary sewers shall be done in accordance with Article 31-1.12 of the Standard Specifications for Water and Sewer Construction in Illinois, Current Edition, Method A (Exfiltration of air under pressure) and Method D (Deflection) shall be used.

PART 4 – MEASUREMENT AND PAYMENT

4.01 MEASUREMENT:

A. This work will be measured in place in feet regardless of depth. When a sanitary sewer enters a manhole, the measurement will end at the inside of the manhole.

4.02 PAYMENT

A. This work will be paid for at the contract unit price per Foot for 8” PVC C900 (DR 18) SANITARY SEWER. Trench backfill (where required on the plans) and the testing for acceptance shall not be paid for separately but shall be considered included in the cost of the sanitary sewer.

--- END OF SECTION ---

VILLAGE OF ARLINGTON HEIGHTS
REGENCY COURT LIFT STATION

APPENDIX A

COOK COUNTY PREVAILING WAGE

Cook County Prevailing Wage Rates posted on 1/15/2026

						Overtime										
Trade Title	Rg	Type	C	Base	Foreman	M-F	Sa	Su	Hol	H/W	Pension	Vac	Trng	Other Ins	Add OT 1.5x owed	Add OT 2.0x owed
ASBESTOS ABT-GEN	All	ALL		51.40	52.40	1.5	1.5	2.0	2.0	18.32	17.71	0.00	0.91	0.00	0.00	0.00
ASBESTOS ABT-MEC	All	BLD		42.02	45.38	1.5	1.5	2.0	2.0	16.44	16.64	0.00	0.92		3.37	6.73
BOILERMAKER	All	BLD		58.91	64.21	2.0	2.0	2.0	2.0	7.07	27.02	0.00	3.69	2.31	0.00	39.30
BRICK MASON	All	BLD		53.06	58.37	1.5	1.5	2.0	2.0	12.95	26.26	0.00	1.57	0.00	4.23	8.45
CARPENTER	All	ALL		56.71	58.71	1.5	1.5	2.0	2.0	13.64	27.26	2.61	1.04		0.00	0.00
CEMENT MASON	All	ALL		53.10	55.10	2.0	1.5	2.0	2.0	18.43	24.00	0.00	1.25		2.50	5.00
CERAMIC TILE FINISHER	All	BLD		49.09	49.09	1.5	1.5	2.0	2.0	13.25	17.61	0.00	1.37	0.00	5.57	11.14
CERAMIC TILE LAYER	All	BLD		57.04	62.04	1.5	1.5	2.0	2.0	13.25	21.60	0.00	1.50	0.00	7.63	15.26
COMMUNICATION ELECTRICIAN	All	BLD		51.14	56.25	1.5	1.5	2.0	2.0	16.70	14.48	1.40	1.27	0.10	0.00	0.00
CONCRETE SPECIALIST	All	BLD		51.81	58.21	1.5	1.5	2.0	2.0	12.95	27.56	0.00	1.57	0.00	4.88	9.75
CONCRETE SPECIALIST WELDER	All	BLD		54.40	58.21	1.5	1.5	2.0	2.0	12.95	27.56	0.00	1.57	0.00	4.88	9.75
ELECTRIC PWR EQMT OP	All	ALL		64.58	70.87	1.5	1.5	2.0	2.0	12.99	22.45	0.00	3.66	0.00	0.00	0.00
ELECTRIC PWR GRNDMAN	All	ALL		50.37	70.87	1.5	1.5	2.0	2.0	10.13	17.51	0.00	2.85	0.00	0.00	0.00
ELECTRIC PWR LINEMAN	All	ALL		64.58	70.87	1.5	1.5	2.0	2.0	12.99	22.45	0.00	3.66	0.00	0.00	0.00
ELECTRICIAN	All	ALL		57.75	63.53	1.5	1.5	2.0	2.0	19.34	21.13	1.60	1.87	0.30	0.00	0.00
ELEVATOR CONSTRUCTOR	All	BLD		70.68	79.52	2.0	2.0	2.0	2.0	16.28	21.36	5.65	0.80		0.00	0.00
FENCE ERECTOR	All	ALL		52.25	54.75	1.5	1.5	2.0	2.0	14.29	19.02	0.00	1.00	0.00	0.00	0.00
GLAZIER	All	BLD		53.55	55.05	1.5	2.0	2.0	2.0	16.04	26.64	0.00	2.30	0.00	0.00	0.00
HEAT/FROST INSULATOR	All	BLD		56.02	59.38	1.5	1.5	2.0	2.0	16.44	19.88	0.00	0.92		4.99	9.97
IRON WORKER	All	ALL		62.46	65.96	2.0	2.0	2.0	2.0	19.05	27.04	0.00	0.49	0.00	0.00	0.00
LABORER	All	ALL		51.40	52.15	1.5	1.5	2.0	2.0	18.32	17.71	0.00	0.91	0.00	0.00	0.00
LATHER	All	ALL		56.71	58.71	1.5	1.5	2.0	2.0	13.64	27.26	2.61	1.04		0.00	0.00
MACHINIST	All	BLD		60.39	64.39	1.5	1.5	2.0	2.0	11.43	9.95	1.85	1.47	0.00	0.00	0.00
MARBLE FINISHER	All	ALL		40.21	54.60	1.5	1.5	2.0	2.0	12.95	23.81	0.00	0.98	0.00	3.00	6.00
MARBLE SETTER	All	BLD		52.00	57.20	1.5	1.5	2.0	2.0	12.95	25.57	0.00	1.25	0.00	3.88	7.76
MATERIAL TESTER I	All	ALL		41.40		1.5	1.5	2.0	2.0	18.32	17.71	0.00	0.91	0.00	0.00	0.00

Cook County Prevailing Wage Rates posted on 1/15/2026

MATERIALS TESTER II	All	ALL		46.40		1.5	1.5	2.0	2.0	18.32	17.71	0.00	0.91	0.00	0.00	0.00
MILLWRIGHT	All	ALL		56.71	58.71	1.5	1.5	2.0	2.0	13.64	27.26	2.61	1.04		0.00	0.00
OPERATING ENGINEER	All	BLD	1	64.80	68.80	2.0	2.0	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	BLD	2	63.50	68.80	2.0	2.0	2.0	2.0	24.70	21.55	2.00	2.75	0.00	0.00	0.00
OPERATING ENGINEER	All	BLD	3	60.95	68.80	2.0	2.0	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	BLD	4	59.20	68.80	2.0	2.0	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	BLD	5	68.55	68.80	2.0	2.0	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	BLD	6	65.80	68.80	2.0	2.0	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	BLD	7	67.80	68.80	2.0	2.0	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	FLT	1	73.95	73.95	1.5	1.5	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	FLT	2	72.45	73.95	1.5	1.5	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	FLT	3	67.95	73.95	1.5	1.5	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	FLT	4	63.45	73.95	1.5	1.5	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	FLT	5	75.45	73.95	1.5	1.5	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	FLT	6	63.45	73.95	1.5	1.5	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	HWY	1	63.00	67.00	1.5	1.5	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	HWY	2	62.45	67.00	1.5	1.5	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	HWY	3	60.40	67.00	1.5	1.5	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	HWY	4	59.00	67.00	1.5	1.5	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	HWY	5	57.80	67.00	1.5	1.5	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	HWY	6	66.00	67.00	1.5	1.5	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
OPERATING ENGINEER	All	HWY	7	64.00	67.00	1.5	1.5	2.0	2.0	24.70	21.55	2.00	2.75		0.00	0.00
ORNAMENTAL IRON WORKER	All	ALL		59.26	62.76	2.0	2.0	2.0	2.0	14.86	27.70	0.00	2.25	0.00	0.00	0.00
PAINTER	All	ALL		54.30	61.09	1.5	1.5	1.5	2.0	16.26	17.59	0.00	1.86	0.00	0.00	0.00
PAINTER - SIGNS	All	BLD		48.16	54.11	1.5	1.5	2.0	2.0	8.20	16.81	0.00	0.00	0.00	0.00	0.00
PILEDRIVER	All	ALL		56.71	58.71	1.5	1.5	2.0	2.0	13.64	27.26	2.61	1.04		0.00	0.00
PIPEFITTER	All	BLD		58.50	61.50	1.5	1.5	2.0	2.0	15.15	22.85	0.00	3.12	0.00	0.00	0.00
PLASTERER	All	BLD		51.10	54.17	1.5	1.5	2.0	2.0	18.43	22.10	0.00	1.25	0.00	0.00	0.00
PLUMBER	All	BLD		60.50	64.15	1.5	1.5	2.0	2.0	19.10	17.94	0.00	1.98		0.00	0.00

Cook County Prevailing Wage Rates posted on 1/15/2026

ROOFER	All	BLD		52.00	57.00	1.5	1.5	2.0	2.0	12.80	18.19	0.00	1.14	0.00	0.00	0.00
SHEETMETAL WORKER	All	BLD		54.58	58.95	1.5	1.5	2.0	2.0	15.88	28.92	0.00	1.20	0.00	0.00	0.00
SIGN HANGER	All	BLD		37.62	40.63	1.5	1.5	2.0	2.0	7.85	4.90	0.00	0.00	0.00	0.00	0.00
SPRINKLER FITTER	All	BLD		63.20	65.95	1.5	1.5	2.0	2.0	15.45	19.95	0.00	1.15	0.00	0.00	0.00
STEEL ERECTOR	All	ALL		62.46	65.96	2.0	2.0	2.0	2.0	19.05	27.04	0.00	0.49	0.00	0.00	0.00
STONE MASON	All	BLD		53.06	58.37	1.5	1.5	2.0	2.0	12.95	26.26	0.00	1.57	0.00	4.23	8.45
SURVEY WORKER	All	BLD		58.45	59.45	1.5	1.5	2.0	2.0	19.10	14.40	0.00	1.59		0.00	0.00
SURVEY WORKER	All	HWY		58.45	59.45	1.5	1.5	2.0	2.0	19.10	14.40	0.00	1.59		0.00	0.00
TERRAZZO FINISHER	All	BLD		51.44	51.44	1.5	1.5	2.0	2.0	13.25	18.87	0.00	1.41	0.00	4.45	8.89
TERRAZZO MECHANIC	All	BLD		55.35	58.85	1.5	1.5	2.0	2.0	13.25	20.26	0.00	1.46	0.00	4.70	9.39
TRAFFIC SAFETY WORKER I	All	HWY		43.40	45.40	1.5	1.5	2.0	2.0	10.08	10.08	0.00	1.05	0.00	0.00	0.00
TRAFFIC SAFETY WORKER II	ALL	HWY		44.40	46.40	1.5	1.5	2.0	2.0	10.08	10.08	0.00	1.05	0.00	0.00	0.00
TRUCK DRIVER	E	ALL	1	45.55	46.20	1.5	1.5	2.0	2.0	13.35	16.09	0.00	0.30	0.00	0.00	0.00
TRUCK DRIVER	E	ALL	2	45.80	46.20	1.5	1.5	2.0	2.0	13.35	16.09	0.00	0.30	0.00	0.00	0.00
TRUCK DRIVER	E	ALL	3	46.00	46.20	1.5	1.5	2.0	2.0	13.35	16.09	0.00	0.30	0.00	0.00	0.00
TRUCK DRIVER	E	ALL	4	46.20	46.20	1.5	1.5	2.0	2.0	13.35	16.09	0.00	0.30	0.00	0.00	0.00
TRUCK DRIVER	W	ALL	1	44.83	45.38	1.5	1.5	2.0	2.0	12.20	16.61	0.00	0.30	0.00	0.00	0.00
TRUCK DRIVER	W	ALL	2	44.98	45.38	1.5	1.5	2.0	2.0	12.20	16.61	0.00	0.30	0.00	0.00	0.00
TRUCK DRIVER	W	ALL	3	45.18	45.38	1.5	1.5	2.0	2.0	12.20	16.61	0.00	0.30	0.00	0.00	0.00
TRUCK DRIVER	W	ALL	4	45.38	45.38	1.5	1.5	2.0	2.0	12.20	16.61	0.00	0.30	0.00	0.00	0.00
TUCKPOINTER	All	BLD		52.53	53.53	1.5	1.5	2.0	2.0	11.05	23.16	0.00	1.46	0.00	0.00	0.00

Legend
Rg Region
Type Trade Type - All,Highway,Building,Floating,Oil & Chip,Rivers
C Class
Base Base Wage Rate
OT M-F Unless otherwise noted, OT pay is required for any hour greater than 8 worked each day, Mon through Fri. The number listed is the multiple of the base wage.
OT Sa Overtime pay required for every hour worked on Saturdays
OT Su Overtime pay required for every hour worked on Sundays
OT Hol Overtime pay required for every hour worked on Holidays

Cook County Prevailing Wage Rates posted on 1/15/2026

H/W Health/Welfare benefit
Vac Vacation
Trng Training
Other Ins Employer hourly cost for any other type(s) of insurance provided for benefit of worker.

Explanations COOK COUNTY

The following list is considered as those days for which holiday rates of wages for work performed apply: New Years Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day, Christmas Day and Veterans Day in some classifications/counties. Generally, any of these holidays which fall on a Sunday is celebrated on the following Monday. This then makes work performed on that Monday payable at the appropriate overtime rate for holiday pay. Common practice in a given local may alter certain days of celebration. If in doubt, please check with IDOL.

TRUCK DRIVERS (WEST) - That part of the county West of Barrington Road.

EXPLANATION OF CLASSES

ASBESTOS - GENERAL - removal of asbestos material/mold and hazardous materials from any place in a building, including mechanical systems where those mechanical systems are to be removed. This includes the removal of asbestos materials/mold and hazardous materials from ductwork or pipes in a building when the building is to be demolished at the time or at some close future date. ASBESTOS - MECHANICAL - removal of asbestos material from mechanical systems, such as pipes, ducts, and boilers, where the mechanical systems are to remain.

CERAMIC TILE FINISHER

The grouting, cleaning, and polishing of all classes of tile, whether for interior or exterior purposes, all burned, glazed or unglazed products; all composition materials, granite tiles, warning detectable tiles, cement tiles, epoxy composite materials, pavers, glass, mosaics, fiberglass, and all substitute materials, for tile made in tile-like units; all mixtures in tile like form of cement, metals, and other materials that are for and intended for use as a finished floor surface, stair treads, promenade roofs, walks, walls, ceilings, swimming pools, and all other places where tile is to form a finished interior or exterior. The mixing of all setting mortars including but not limited to thin-set mortars, epoxies, wall mud, and any other sand and cement mixtures or adhesives when used in the preparation, installation, repair, or maintenance of tile and/or similar materials. The handling and unloading of all sand, cement, lime, tile, fixtures, equipment, adhesives, or any other materials to be used in the preparation, installation, repair, or maintenance of tile and/or similar materials. Ceramic Tile Finishers shall fill all joints and voids regardless of method on all tile work, particularly and especially after installation of said tile work. Application of any and all protective coverings to all types of tile installations including, but not be limited to, all soap compounds, paper products, tapes, and all polyethylene coverings, plywood, masonite, cardboard, and any new type of products that may be used to protect tile installations, Blastrac equipment, and all floor scarifying equipment used in preparing floors to receive tile. The clean up and removal of all waste and materials. All demolition of existing tile floors and walls to be re-tiled.

COMMUNICATIONS ELECTRICIAN

Installation, operation, inspection, maintenance, repair and service of radio, television, recording, voice sound vision production and reproduction, telephone and telephone interconnect, facsimile, data apparatus, coaxial, fibre optic and wireless equipment, appliances and systems used for the transmission and reception of signals of any nature, business, domestic, commercial, education, entertainment, and residential purposes, including but not limited to, communication and telephone, electronic and sound equipment, fibre optic and data communication systems, and the performance of any task directly related to such installation or service whether at new or existing sites, such tasks to include the placing of wire and cable and electrical power conduit or other raceway work within the equipment room and pulling wire and/or cable through conduit and the installation of any incidental conduit, such that the employees covered hereby can complete any job in full.

MARBLE FINISHER

Loading and unloading trucks, distribution of all materials (all stone, sand, etc.), stocking of floors with material, performing all rigging for heavy work, the handling of all material that may be needed for the installation of such materials, building of scaffolding, polishing if needed, patching, waxing of material if damaged, pointing up, caulking, grouting and cleaning of marble, holding water on diamond or Carborundum blade or saw for setters cutting, use of tub saw or any other saw needed for preparation of material, drilling of holes for wires that anchor material set by setters, mixing up of molding plaster for installation of material, mixing up thin set for the installation of material, mixing up of sand to cement for the installation of material and such other work as may be required in helping a Marble Setter in the handling of all material in the erection or installation of interior marble, slate, travertine, art marble, serpentine, alberene stone, blue stone, granite and other stones (meaning as to stone any foreign or domestic materials as are specified and used in building interiors and exteriors and customarily known as stone in the trade), carrara, sanionyx, vitrolite and similar opaque glass and the laying of all marble tile, terrazzo tile, slate tile and precast tile, steps, risers treads, base, or any other materials that may be used as substitutes for any of the aforementioned materials and which are used on interior and exterior which are installed in a similar manner.

MATERIAL TESTER I: Hand coring and drilling for testing of materials; field inspection of uncured concrete and asphalt.

MATERIAL TESTER II: Field inspection of welds, structural steel, fireproofing, masonry, soil, facade, reinforcing steel, formwork, cured concrete, and concrete and asphalt batch plants; adjusting proportions of bituminous mixtures.

OPERATING ENGINEER - BUILDING

Class 1. Asphalt Plant; Asphalt Spreader; Autograde; Backhoes with Caisson Attachment; Batch Plant; Benoto (requires Two Engineers); Boiler and Throttle Valve; Caisson Rigs; Central Redi-Mix Plant; Combination Back Hoe Front End-loader Machine; Compressor and Throttle Valve; Concrete Breaker (Truck Mounted); Concrete Conveyor; Concrete Conveyor (Truck Mounted); Concrete Paver Over 27E cu. ft; Concrete Paver 27E cu. ft. and Under: Concrete Placer; Concrete Placing Boom; Concrete Pump (Truck Mounted); Concrete Tower; Cranes, All; Cranes, Hammerhead; Cranes, (GCI and similar Type); Creter Crane; Spider Crane; Crusher, Stone, etc.; Derricks, All; Derricks, Traveling; Formless Curb and Gutter Machine; Grader, Elevating; Grouting Machines; Heavy Duty Self-Propelled Transporter or Prime Mover; Highlift Shovels or Front Endloader 2-1/4 yd. and over; Hoists, Elevators, outside type rack and pinion and similar machines; Hoists, One, Two and Three Drum; Hoists, Two Tugger One Floor; Hydraulic Backhoes; Hydraulic Boom Trucks; Hydro Vac (and similar equipment); Locomotives, All; Motor Patrol; Lubrication Technician; Manipulators; Pile Drivers and Skid Rig; Post Hole Digger; Pre-Stress Machine; Pump Cretes Dual Ram; Pump Cretes: Squeeze Cretes-Screw Type Pumps; Gypsum Bulker and Pump; Raised and Blind Hole Drill; Roto Mill Grinder; Scoops - Tractor Drawn; Slip-

Form Paver; Straddle Buggies; Operation of Tie Back Machine; Tournapull; Tractor with Boom and Side Boom; Trenching Machines.

Class 2. Boilers; Broom, All Power Propelled; Bulldozers; Concrete Mixer (Two Bag and Over); Conveyor, Portable; Forklift Trucks; Highlift Shovels or Front Endloaders under 2-1/4 yd.; Hoists, Automatic; Hoists, Inside Elevators; Hoists, Sewer Dragging Machine; Hoists, Tugger Single Drum; Laser Screed; Rock Drill (Self-Propelled); Rock Drill (Truck Mounted); Rollers, All; Steam Generators; Tractors, All; Tractor Drawn Vibratory Roller; Winch Trucks with "A" Frame.

Class 3. Air Compressor; Combination Small Equipment Operator; Generators; Heaters, Mechanical; Hoists, Inside Elevators (remodeling or renovation work); Hydraulic Power Units (Pile Driving, Extracting, and Drilling); Pumps, over 3" (1 to 3 not to exceed a total of 300 ft.); Low Boys; Pumps, Well Points; Welding Machines (2 through 5); Winches, 4 Small Electric Drill Winches.

Class 4. Bobcats and/or other Skid Steer Loaders; Oilers; and Brick Forklift.

Class 5. Assistant Craft Foreman.

Class 6. Gradall.

Class 7. Mechanics; Welders.

OPERATING ENGINEERS - HIGHWAY CONSTRUCTION

Class 1. Asphalt Plant; Asphalt Heater and Planer Combination; Asphalt Heater Scarfire; Asphalt Spreader; Autograder/GOMACO or other similar type machines: ABG Paver; Backhoes with Caisson Attachment; Ballast Regulator; Belt Loader; Caisson Rigs; Car Dumper; Central Redi-Mix Plant; Combination Backhoe Front Endloader Machine, (1 cu. yd. Backhoe Bucket or over or with attachments); Concrete Breaker (Truck Mounted); Concrete Conveyor; Concrete Paver over 27E cu. ft.; Concrete Placer; Concrete Tube Float; Cranes, all attachments; Cranes, Tower Cranes of all types: Creter Crane: Spider Crane; Crusher, Stone, etc.; Derricks, All; Derrick Boats; Derricks, Traveling; Dredges; Elevators, Outside type Rack & Pinion and Similar Machines; Formless Curb and Gutter Machine; Grader, Elevating; Grader, Motor Grader, Motor Patrol, Auto Patrol, Form Grader, Pull Grader, Subgrader; Guard Rail Post Driver Truck Mounted; Hoists, One, Two and Three Drum; Heavy Duty Self-Propelled Transporter or Prime Mover; Hydraulic Backhoes; Backhoes with shear attachments up to 40' of boom reach; Lubrication Technician; Manipulators; Mucking Machine; Pile Drivers and Skid Rig; Pre-Stress Machine; Pump Cretes Dual Ram; Rock Drill - Crawler or Skid Rig; Rock Drill - Truck Mounted; Rock/Track Tamper; Roto Mill Grinder; Slip-Form Paver; Snow Melters; Soil Test Drill Rig (Truck Mounted); Straddle Buggies; Hydraulic Telescoping Form (Tunnel); Operation of Tieback Machine; Tractor Drawn Belt Loader; Tractor Drawn Belt Loader (with attached pusher - two engineers); Tractor with Boom; Tractaire with Attachments; Traffic Barrier Transfer Machine; Trenching; Truck Mounted Concrete Pump with Boom; Raised or Blind Hole Drills (Tunnel Shaft); Underground Boring and/or Mining Machines 5 ft. in diameter and over tunnel, etc; Underground Boring and/or Mining Machines under 5 ft. in diameter; Wheel Excavator; Widener (APSCO).

Class 2. Batch Plant; Bituminous Mixer; Boiler and Throttle Valve; Bulldozers; Car Loader Trailing Conveyors; Combination Backhoe Front Endloader Machine (Less than 1 cu. yd. Backhoe Bucket or over or with attachments); Compressor and Throttle Valve; Compressor, Common Receiver (3); Concrete Breaker or Hydro Hammer; Concrete Grinding Machine; Concrete Mixer or Paver 7S

Series to and including 27 cu. ft.; Concrete Spreader; Concrete Curing Machine, Burlap Machine, Belting Machine and Sealing Machine; Concrete Wheel Saw; Conveyor Muck Cars (Haglund or Similar Type); Drills, All; Finishing Machine - Concrete; Highlift Shovels or Front Endloader; Hoist - Sewer Dragging Machine; Hydraulic Boom Trucks (All Attachments); Hydro-Blaster; Hydro Excavating (excluding hose work); Laser Screed; All Locomotives, Dinky; Off-Road Hauling Units (including articulating) Non Self-Loading Ejection Dump; Pump Cretes: Squeeze Cretes - Screw Type Pumps, Gypsum Bulker and Pump; Roller, Asphalt; Rotary Snow Plows; Rototiller, Seaman, etc., self-propelled; Self-Propelled Compactor; Spreader - Chip - Stone, etc.; Scraper - Single/Twin Engine/Push and Pull; Scraper - Prime Mover in Tandem (Regardless of Size); Tractors pulling attachments, Sheeps Foot, Disc, Compactor, etc.; Tug Boats.

Class 3. Boilers; Brooms, All Power Propelled; Cement Supply Tender; Compressor, Common Receiver (2); Concrete Mixer (Two Bag and Over); Conveyor, Portable; Farm-Type Tractors Used for Mowing, Seeding, etc.; Forklift Trucks; Grouting Machine; Hoists, Automatic; Hoists, All Elevators; Hoists, Tugger Single Drum; Jeep Diggers; Low Boys; Pipe Jacking Machines; Post-Hole Digger; Power Saw, Concrete Power Driven; Pug Mills; Rollers, other than Asphalt; Seed and Straw Blower; Steam Generators; Stump Machine; Winch Trucks with "A" Frame; Work Boats; Tamper-Form-Motor Driven.

Class 4. Air Compressor; Combination - Small Equipment Operator; Directional Boring Machine; Generators; Heaters, Mechanical; Hydraulic Power Unit (Pile Driving, Extracting, or Drilling); Light Plants, All (1 through 5); Pumps, over 3" (1 to 3 not to exceed a total of 300 ft.); Pumps, Well Points; Vacuum Trucks (excluding hose work); Welding Machines (2 through 5); Winches, 4 Small Electric Drill Winches.

Class 5. SkidSteer Loader (all); Brick Forklifts; Oilers.

Class 6. Field Mechanics and Field Welders

Class 7. Dowell Machine with Air Compressor; Gradall and machines of like nature.

OPERATING ENGINEER - FLOATING

Class 1. Craft Foreman; Master Mechanic; Diver/Wet Tender; Engineer; Engineer (Hydraulic Dredge).

Class 2. Crane/Backhoe Operator; Boat Operator with towing endorsement; Mechanic/Welder; Assistant Engineer (Hydraulic Dredge); Leverman (Hydraulic Dredge); Diver Tender.

Class 3. Deck Equipment Operator, Machineryman, Maintenance of Crane (over 50 ton capacity) or Backhoe (115,000 lbs. or more); Tug/Launch Operator; Loader/Dozer and like equipment on Barge, Breakwater Wall, Slip/Dock, or Scow, Deck Machinery, etc.

Class 4. Deck Equipment Operator, Machineryman/Fireman (4 Equipment Units or More); Off Road Trucks; Deck Hand, Tug Engineer, Crane Maintenance (50 Ton Capacity and Under) or Backhoe Weighing (115,000 pounds or less); Assistant Tug Operator.

Class 5. Friction or Lattice Boom Cranes.

Class 6. ROV Pilot, ROV Tender

SURVEY WORKER

Operates survey equipment (such as levels, transits, data collectors, GPS and robotic total stations) for the purpose of performing construction layout and/or grade checking.

SURVEY FOREMAN

Operates survey equipment (such as levels, transits, data collectors, GPS and robotic total stations) for the purpose of performing construction layout and/or grade checking; oversees survey crew operations; and/or coordinates work of survey crews.

TERRAZZO FINISHER

The handling of sand, cement, marble chips, and all other materials that may be used by the Mosaic Terrazzo Mechanic, and the mixing, grinding, grouting, cleaning and sealing of all Marble, Mosaic, and Terrazzo work, floors, base, stairs, and wainscoting by hand or machine, and in addition, assisting and aiding Marble, Masonic, and Terrazzo Mechanics.

TRAFFIC SAFETY Worker I

Traffic Safety Worker I - work associated with the delivery, installation, pick-up and servicing of safety devices during periods of roadway construction, including such work as set-up and maintenance of barricades, barrier wall reflectors, drums, cones, delineators, signs, crash attenuators, glare screen and other such items, and the layout and application or removal of conflicting and/or temporary roadway markings utilized to control traffic in construction zones, as well as flagging for these operations.

TRAFFIC SAFETY WORKER II

Work associated with the installation and removal of permanent pavement markings and/or pavement markers including both installations performed by hand and installations performed by truck.

TRUCK DRIVER - BUILDING, HEAVY AND HIGHWAY CONSTRUCTION - EAST & WEST

Class 1. Two or three Axle Trucks. A-frame Truck when used for transportation purposes; Air Compressors and Welding Machines, including those pulled by cars, pick-up trucks and tractors; Ambulances; Batch Gate Lockers; Batch Hopperman; Car and Truck Washers; Carry-alls; Fork Lifts and Hoisters; Helpers; Mechanics Helpers and Greasers; Oil Distributors 2-man operation; Pavement Breakers; Pole Trailer, up to 40 feet; Power Mower Tractors; Self-propelled Chip Spreader; Skipman; Slurry Trucks, 2-man operation; Slurry Truck Conveyor Operation, 2 or 3 man; Teamsters; Unskilled Dumpman; and Truck Drivers hauling warning lights, barricades, and portable toilets on the job site.

Class 2. Four axle trucks; Dump Crets and Adgetors under 7 yards; Dumpsters, Track Trucks, Euclids, Hug Bottom Dump Turnapulls or Turnatrailers when pulling other than self-loading equipment or similar equipment under 16 cubic yards; Mixer Trucks under 7 yards; Ready-mix Plant Hopper Operator, and Winch Trucks, 2 Axles.

Class 3. Five axle trucks; Dump Crets and Adgetors 7 yards and over; Dumpsters, Track Trucks, Euclids, Hug Bottom Dump

Turnatrailers or turnapulls when pulling other than self-loading equipment or similar equipment over 16 cubic yards; Explosives and/or Fission Material Trucks; Mixer Trucks 7 yards or over; Mobile Cranes while in transit; Oil Distributors, 1-man operation; Pole Trailer, over 40 feet; Pole and Expandable Trailers hauling material over 50 feet long; Slurry trucks, 1-man operation; Winch trucks, 3 axles or more; Mechanic--Truck Welder and Truck Painter.

Class 4. Six axle trucks; Dual-purpose vehicles, such as mounted crane trucks with hoist and accessories; Foreman; Master Mechanic; Self-loading equipment like P.B. and trucks with scoops on the front.

Other Classifications of Work:

For definitions of classifications not otherwise set out, the Department generally has on file such definitions which are available. If a task to be performed is not subject to one of the classifications of pay set out, the Department will upon being contacted state which neighboring county has such a classification and provide such rate, such rate being deemed to exist by reference in this document. If no neighboring county rate applies to the task, the Department shall undertake a special determination, such special determination being then deemed to have existed under this determination. If a project requires these, or any classification not listed, please contact IDOL at 217-782-1710 for wage rates or clarifications.

LANDSCAPING

Landscaping work falls under the existing classifications for laborer, operating engineer and truck driver. The work performed by landscape plantsman and landscape laborer is covered by the existing classification of laborer. The work performed by landscape operators (regardless of equipment used or its size) is covered by the classifications of operating engineer. The work performed by landscape truck drivers (regardless of size of truck driven) is covered by the classifications of truck driver.

MATERIAL TESTER & MATERIAL TESTER/INSPECTOR I AND II

Notwithstanding the difference in the classification title, the classification entitled "Material Tester I" involves the same job duties as the classification entitled "Material Tester/Inspector I". Likewise, the classification entitled "Material Tester II" involves the same job duties as the classification entitled "Material Tester/Inspector II".

--END OF SECTION--

VILLAGE OF ARLINGTON HEIGHTS
REGENCY COURT LIFT STATION

APPENDIX B
GEOTECHNICAL REPORT

SOIL AND MATERIAL CONSULTANTS, INC.

Office: 847-870-0544
Fax: 847-870-0661
us@soilandmaterialconsultants.com
www.soilandmaterialconsultants.com

September 9, 2025
File No. 28952

Mr. Luke A. Mattson, P.E.
Ciorba Group
8725 W. Higgins Road, Suite 600
Chicago, IL 60631

Re: Geotechnical Investigation
Regent Lift Station
Arlington Heights, Illinois

Dear Mr. Mattson:

The following is our report of findings for the geotechnical investigation completed for the Regent Lift Station in the Village of Arlington Heights, Illinois.

The investigation was requested to determine current subsurface soil and water conditions at a select boring location. The findings of the field investigation and the results of laboratory testing are intended to assist in the planning, design and construction of proposed lift station.

SCOPE OF THE INVESTIGATION

The field investigation included obtaining 1 boring at the location requested and as indicated on the enclosed location sketch. The boring location was established using field taping methods and accuracy with a surface elevation determined using the temporary benchmark indicated on the location sketch.

We auger drilled the boring to a depth of 35.0 feet below existing surface elevations. Soil samples were obtained using a split barrel sampler advanced utilizing an automatic SPT hammer. Soil profiles were determined in the field and soil samples returned to our laboratory for additional testing including determination of moisture content. Cohesive soils obtained by split barrel sampling were tested further to determine dry unit weight and unconfined compressive strength.

The results of all field determinations and laboratory testing are included in summary with this report.

RESULTS OF THE INVESTIGATION

Enclosed is the boring log indicating soil conditions encountered. Site surface conditions include vegetation and topsoil conditions.

Underlying soil conditions include the presence of non-cohesive soils. These include loose to medium dense silt/clay, silt/sand, and silt/clay/sand mixtures. The non-cohesive soils are often in a damp to very damp condition.

Cohesive soils were also encountered as indicated. These are classified as very tough to hard clay/silt mixtures with lesser portions of sand and gravel. Cobbles and boulders may be present within the site soils at any elevation, although none were encountered while drilling.

The following table summarizes depth ranges below existing grade, the magnitude of soil strength within these ranges and other information:

Boring	Surface Elevation (feet)	Depth Range Below Existing Surface (feet)	Soil Strength (lbs./sq.ft.)	Recorded Water Levels, W.D./A.D. (feet)
1	100.5	1.5 to 26.5	3,000	dry/dry
		26.5 to 32.0	4,000	

The boring log and the above table indicate subsurface water was not encountered in the bore hole at the time of the drilling operations and during the period of these readings. It is expected that fluctuations from the water levels recorded will occur over a period of time due to variations in rainfall, temperature, subsurface soil conditions, soil permeability and other factors not evident at the time of the water level measurements.

FOUNDATIONS

Based on the results of this investigation it is our opinion that continuous and isolated footing foundations may be considered for support of new structure loads. These foundations can be supported on undisturbed natural soils located below all fill soils, low-strength soils, and other unsuitable conditions which may be encountered. Soil strength values and the depths at which they are expected to be encountered at these boring locations are indicated in the above table. A net allowable bearing value of 3,000 lbs./sq.ft. is available for design. This value can be used to size foundations for support of structure dead and live loads.

All exterior foundations should extend at least 48.0 inches below exposed surface elevations to provide adequate protection against uplift due to freezing of the supporting soils. We recommend providing adequate reinforcing steel in foundation walls and piers to minimize the effects of long-term differential settlement.

DEWATERING

Excavations may require dewatering due to subsurface water seepage and/or surface precipitation. This water can be removed to depths of several feet by standard sump and pump operations. Soils exposed at foundation, slab or undercut elevations should not be permitted to become saturated. Loss of bearing strength and stability may occur, requiring additional soil excavation.

Fill soils, non-cohesive soils and others can be unstable when saturated. These soils tend to cave or run when submerged or disturbed. The stability of exposed embankments is minimal to non-existent as confining soil pressures are removed. Proper drainage within excavations is

necessary at all times, particularly when excavations extend below anticipated water levels and below saturated soils.

The contractor should be made responsible for designing and constructing stable temporary excavations. Also, the contractor should shore, slope, bench or restrain the sides of the excavations as required to maintain stability of both the excavation sides and bottom. In no case, should the slope, slope heights, or excavation depth exceed those in the local, state, and federal safety regulations.

SUBGRADE SOIL PREPARATION

The procedure in all areas of subgrade supported improvements should include the removal of unsuitable surface conditions including vegetation, topsoil, significant debris, weak or unstable soils, and other deleterious conditions which may be encountered. Above grade areas should be cut to design subgrade elevations. Exposed subgrade soils should be leveled, compacted and proof-rolled in the presence of the Soil Engineer.

Proof-rolling may reveal areas of unstable soil conditions, requiring additional removal. Soft or unstable soil conditions in pavement areas can often be bridged by use of an effective depth of crushed granular material. The placement of the crushed granular bridging material, possibly in conjunction with the use of an appropriate geotextile fabric, should only proceed after review of the proof-roll conditions by the Soil Engineer. Long-term settlement of pavement surfaces may occur locally as the bridged soils desiccate.

Structural fill can be placed on soils prepared to the satisfaction of the Soil Engineer. The fill should be placed in lifts not to exceed 8.0 inches when uncompacted. Each lift should exceed minimum compaction requirements prior to placement of the next lift. We recommend a minimum of 95% compaction based on the modified Proctor test, ASTM D-1557, be achieved within building areas. A minimum of 90% compaction should be achieved beneath exterior improvements such as pavements and sidewalks. Compaction requirements also apply to backfill placement around foundations and within trench excavations located below subgrade supported improvements.

CONCLUSION

The information within this report is intended to provide initial information concerning subsurface soil and water conditions on the site. Variations in subsurface conditions are expected to be present due to naturally changing and disturbed soil conditions.

Our understanding of the proposed improvements is based on limited information available to us at the writing of this report. The findings of the investigation and the recommendations presented are not considered applicable to significant changes in the scope of the improvements or applicable to alternate site uses.

We recommend that proposed foundation, pavement and grading plans be reviewed by our office to determine if additional considerations are necessary to address anticipated subsurface

conditions. Soil conditions encountered at foundation elevations are recommended to be tested to verify the presence of design soil strength prior to concrete placement.

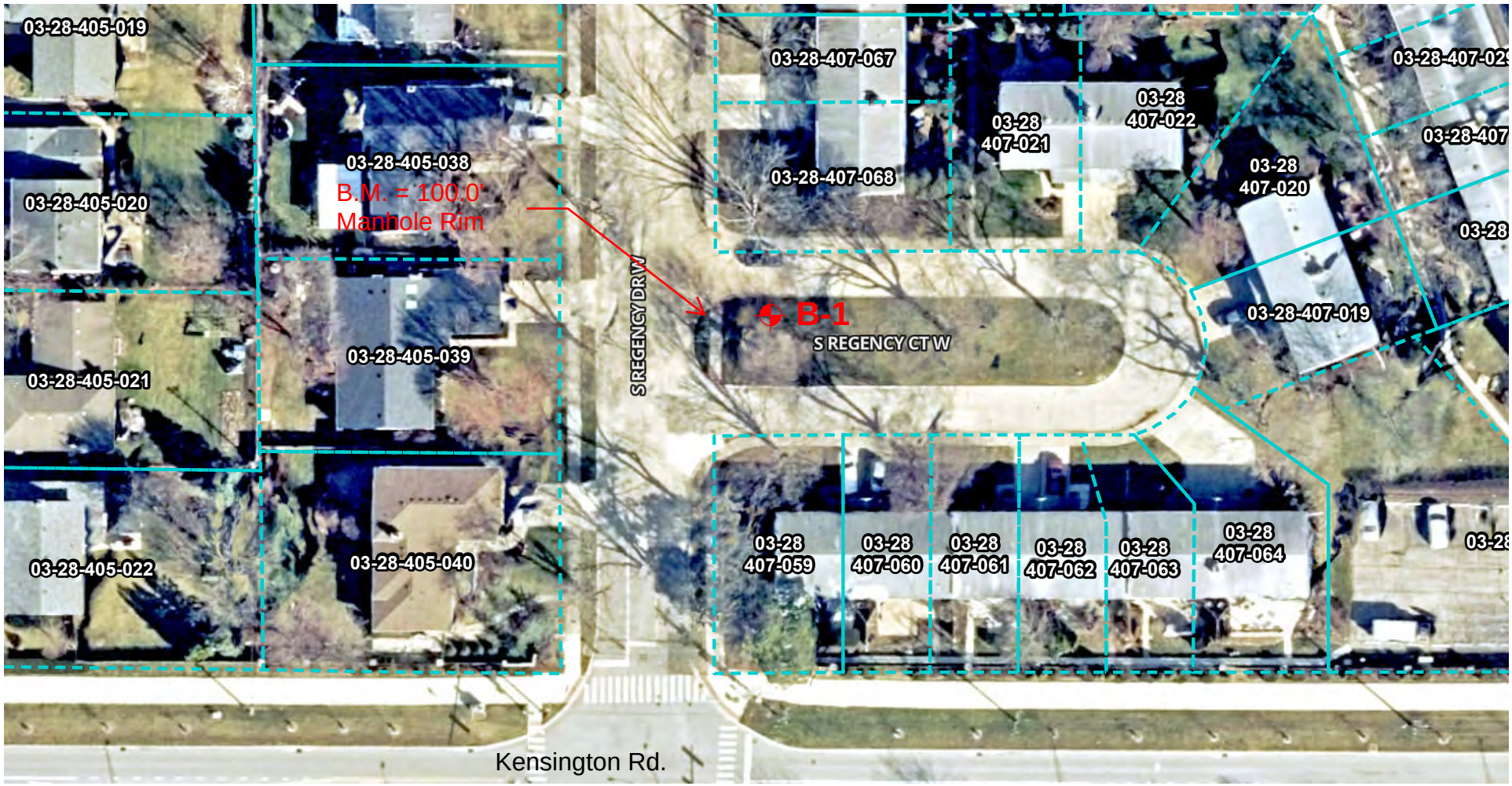
If you have any questions concerning the findings or recommendations presented in this report, please let us know.

Very truly yours,

SOIL AND MATERIAL CONSULTANTS, INC.

Thomas P. Johnson, P.E.
President

TPJ:ek
Enc.



N

SMC	SOIL AND MATERIAL CONSULTANTS, INC.	LOCATION SKETCH
Client:	CIORBA GROUP, INC.	
Project:	REGENT LIFT STATION	
Location:	ARLINGTON HEIGHTS, ILLINOIS	
File No. 28952	Date: 9-8-25	Scale: NONE

SOIL AND MATERIAL CONSULTANTS, INC.

8 W. COLLEGE DR. • SUITE C • ARLINGTON HEIGHTS, IL 60004

SOIL BORING LOG 1

Logged By: CS **Page:** 1 of 1

Client: Ciorba Group, Inc.

File No. 28952 **Date Drilled:** 9/8/25

Reference: Regent Lift Station
Arlington Heights, IL

Comments:

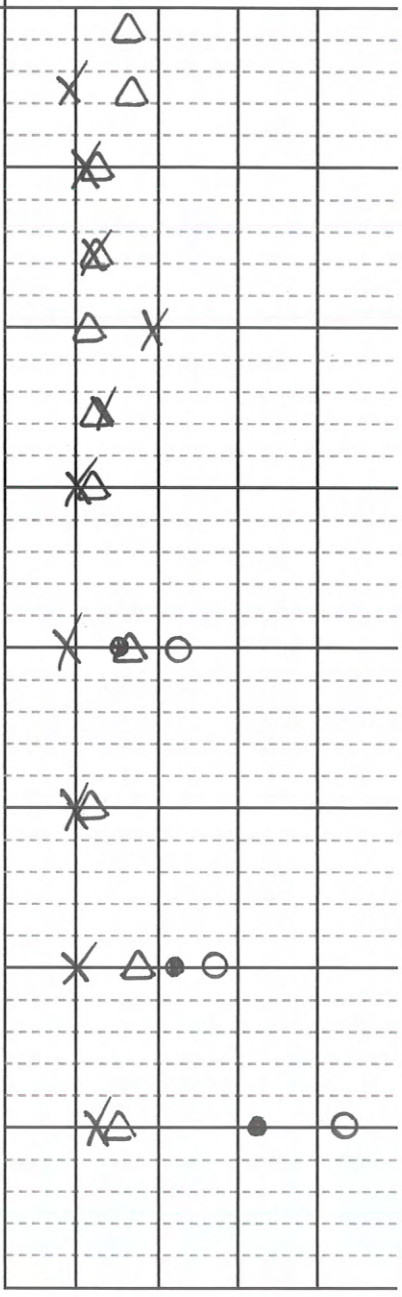
Equipment: ☒D - 25 ☐ D - 50 ☐Hand Auger ☐Other

Elevation 100.5' **Existing Surface**

depth, ft.	CLASSIFICATION	standard penetration ×	moisture content Δ	dry unit weight lbs./cu.ft. ɣ	unconfined compressive strengh ○
	(a) see below		17.3		
	Brown-gray silt,some clay,trace sand & gravel,damp,loose to medium dense	9	16.9		
5		11	12.8		
	Brown silt,some sand,trace clay & gravel damp,medium dense	12	12.0		
10		19	10.7		
	Gray silt,some clay & sand,trace gravel damp,medium dense	13	11.5		
15		10	12.4		
	Gray clay,some silt,trace sand & gravel damp,very tough	8	17.1	119.7	2.3
25	Gray silt,some sand & clay,trace gravel, damp-very damp,loose	9	11.1		
	Gray clay,some silt,trace sand & gravel damp,very tough to hard	10	19.2	113.2	2.8
35		13	15.0	120.6	4.3
	End of Boring				
	(a) Black silt,some clay,trace sand & roots,damp (topsoil)				
40					

○ unconfined compressive strength, tons/sq. ft.
● penetrometer reading, tons/sq. ft.
1.0 2.0 3.0 4.0

× standard penetration "N", blows/ft.
Δ moisture content, %
10 20 30 40



Water encountered at dry feet during drilling operations (W.D.)
Water recorded at dry feet on completion of drilling operations (A.D.)
Water recorded at feet hours after completion of drilling operations (A.D.)

G-303

SOIL AND MATERIAL CONSULTANTS, INC.

8 W. COLLEGE DR. • SUITE C • ARLINGTON HEIGHTS, IL 60004

GENERAL NOTES

SAMPLE CLASSIFICATION

Soil sample classification is based on the Unified Soil Classification System, the Standard Practice for Description and Identification Soils (Visual-Manual Procedure), ASTM D-2488, the Standard Test Method for Classification of Soils for Engineering Purposes, ASTM D-2487 (when applicable), and the modifiers noted below.

CONSISTENCY OF COHESIVE SOILS

Term	Qu-tons.sq.ft.	N (unreliable)
Very soft	0.00 – 0.25	0 – 2
Soft	0.26 – 0.49	3 – 4
Stiff	0.50 – 0.99	5 – 8
Tough	1.00 – 1.99	9 –15
Very Tough	2.00 – 3.99	16 – 30
Hard	4.00 – 7.99	30 +
Very Hard	8.00 +	

RELATIVE DENSITY OF GRANULAR SOILS

Term	N – blows/foot
Very Loose	0 – 4
Loose	5 – 9
Medium Dense	10 – 29
Dense	30 – 49
Very Dense	50 +

IDENTIFICATION AND TERMINOLOGY

Term	Size Range
Boulder	over 8 in.
Cobble	3 in. to 8 in.
Gravel - coarse	1 in. to 3 in.
- medium	3/8 in. to 1 in.
- fine	#4 sieve to 3/8 in.
Sand - coarse	#10 sieve to #4 sieve
- medium	#40 sieve to #10 sieve
- fine	#200 sieve to #40 sieve
Silt	0.002 mm to #200 sieve
Clay	smaller than 0.002mm

Modifying Term	Percent by Weight
Trace	1 – 10
Little	11 – 20
Some	21 – 35
And	36 – 50

Moisture Content

Dry
Damp
Very Damp
Saturated

DRILLING, SAMPLING & SOIL PROPERY SYMBOLS

- CF - Continuous Flight Auger
- HS - Hollow Stem Auger
- HA - Hand Auger
- RD - Rotary Drilling
- AX - Rock Core, 1-3/16 in. diameter
- BX - Rock Core, 1-5/8 in. diameter
- NX - Rock Core, 2-1/8 in. diameter
- S - Sample Number
- T - Type of Sample
- J - Jar
- AS - Auger Sample
- SS - Split Spoon (2 in. O.D. with 1-3/8 in. I.D.)
- ST - Shelby Tube (2 in. O.D. w/ith1-7/8 in. I. D.)
- R - Recovery Length, in.
- B - Blows/6 in. interval, Standard Penetration Test (SPT)
- N - Blows/foot to drive 2 in. O.D. split-spoon sampler with 140 lb. hammer falling 30 in., (STP)
- Pen. - Pocket Penetrometer readings, tons/sq.ft.
- W - Water Content, % dry weight
- Uw - Dry Unit Weight of soil, lbs./cu.ft.
- Qu - Unconfined Compressive Strength, tons/sq.ft.
- Str - % Strain at Qu.
- WL - Water Level
- WD - While Drilling
- AD - After Drilling
- DCI - Dry Cave-in.
- WCI - Wet Cave-in.
- LL - Liquid Limit, %
- PL - Plastic Limit, %
- PI - Plasticity Index (LL-PL)
- LI - Liquidity Index [(W-PL)/PI]

VILLAGE OF ARLINGTON HEIGHTS
REGENCY COURT LIFT STATION

APPENDIX C

pH Test Results

SOIL AND MATERIAL CONSULTANTS, INC.

Office: 847-870-0544
Fax: 847-870-0661
us@soilandmaterialconsultants.com
www.soilandmaterialconsultants.com

September 9, 2025
File No. 28952

Mr. Luke A. Mattson, P.E.
Ciorba Group
8725 W. Higgins Road, Suite 600
Chicago, IL 60631

Re: pH Test Result
Regent Lift Station
Arlington Heights, Illinois

Dear Mr. Mattson:

A selected soil sample collected between a depth of 6.0 feet and 7.5 feet from boring B-1, shown on the attached sketch, was tested in accordance with ASTM D 4972-01 and had a pH level 8.9.

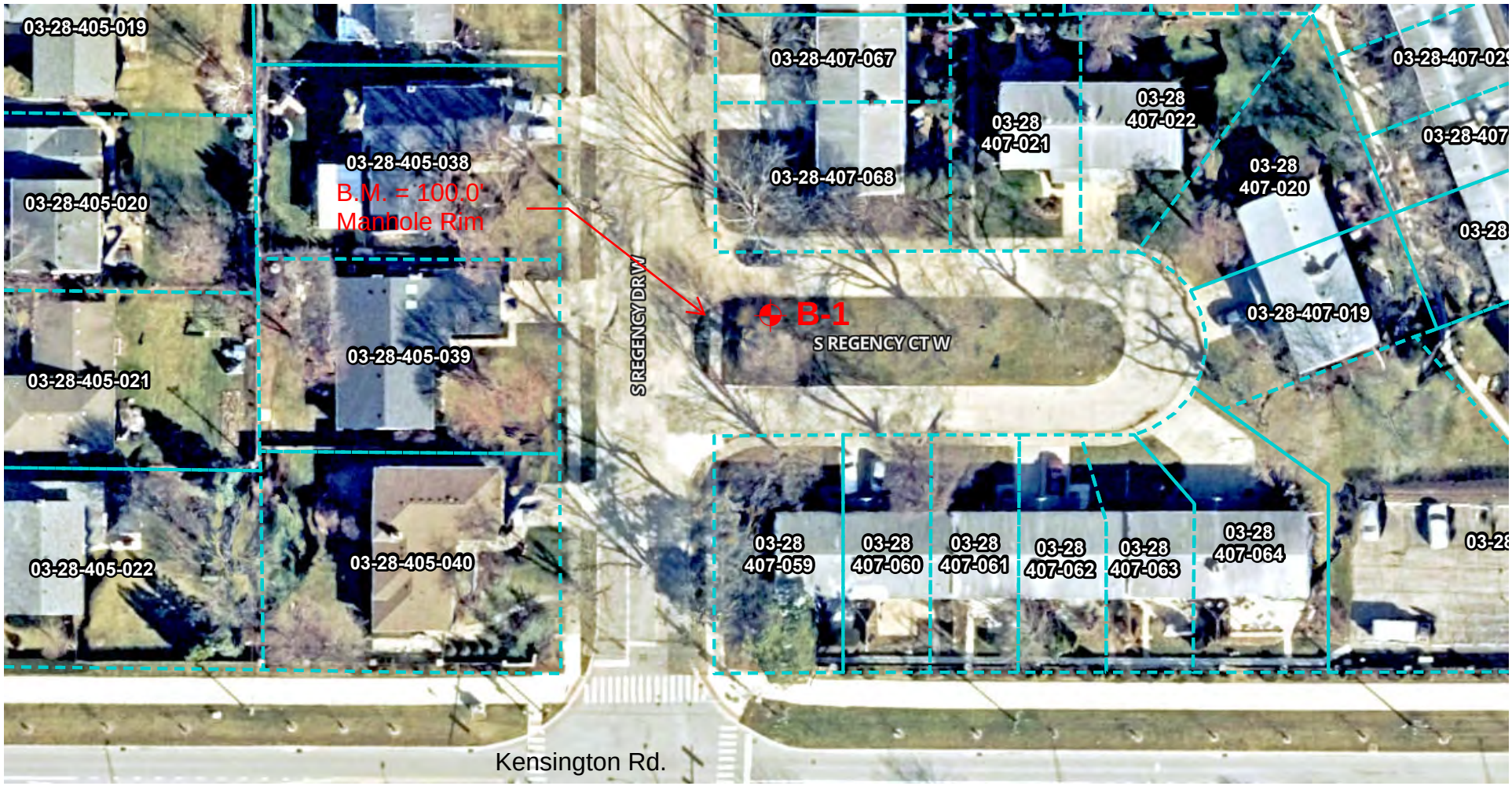
If you have any questions do not hesitate to contact me.

Very truly yours,

SOIL AND MATERIAL CONSULTANTS, INC.

Thomas P. Johnson, P.E.
President

TPJ:ek
Enc.



N

SMC	SOIL AND MATERIAL CONSULTANTS, INC.	LOCATION SKETCH
Client:	CIORBA GROUP, INC.	
Project:	REGENT LIFT STATION	
Location:	ARLINGTON HEIGHTS, ILLINOIS	
File No. 28952	Date: 9-8-25	Scale: NONE

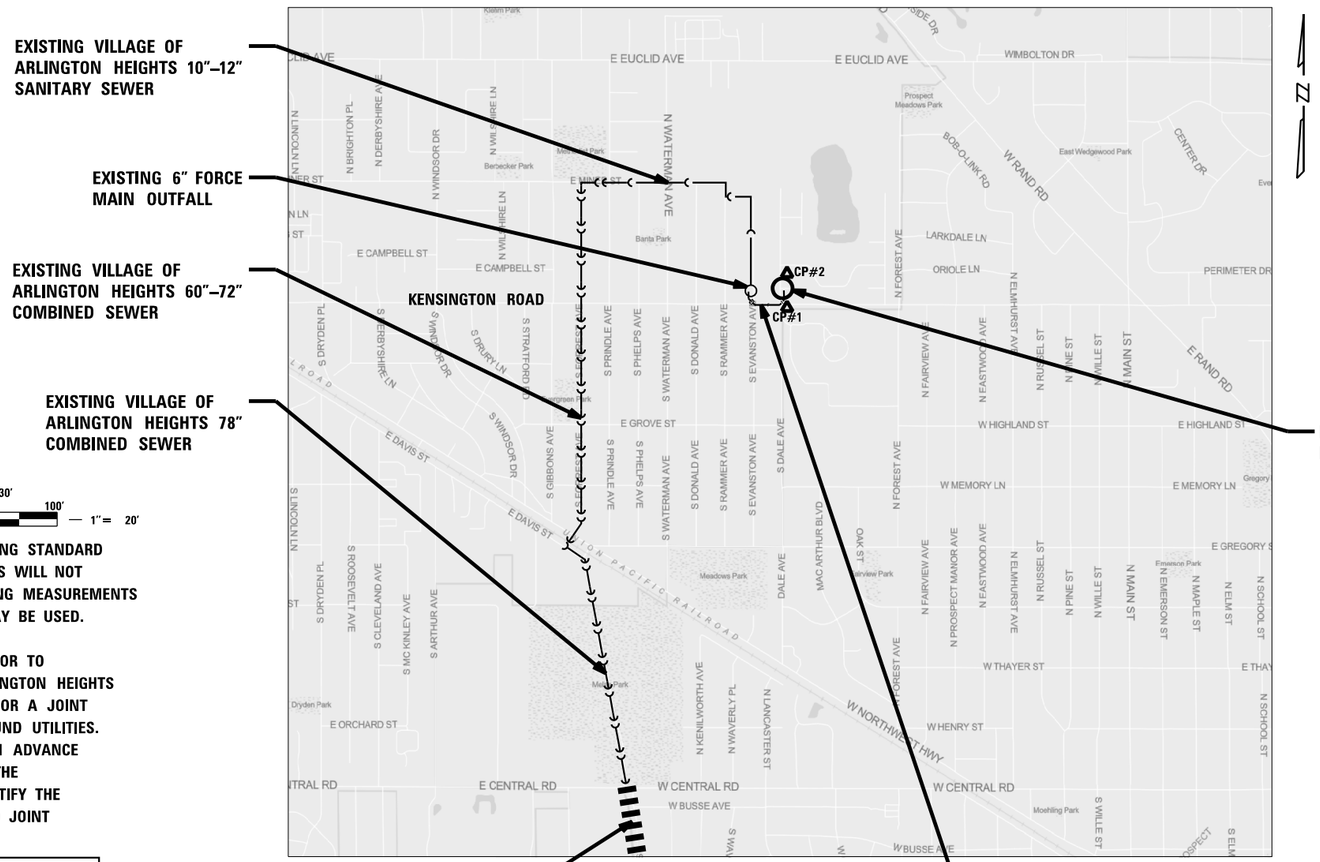
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	14	1
	ILLINOIS	CONTRACT NO. 22034.01		

VILLAGE OF ARLINGTON HIEGHTS
REGENCY COURT
LIFT STATION RECONSTRUCTION

INDEX OF SHEETS

1	COVER SHEET
2	LEGEND AND GENERAL NOTES
3	MWRD GENERAL NOTES AND MAINTENANCE NOTES
4	EXISTING CONDITIONS AND DEMOLITION PLAN
5	PROPOSED LIFT STATION PLAN AND DETAILS
6	ELECTRICAL SITE PLAN AND SCHEDULE
7	ONE LINE DIAGRAM
8	ELECTRICAL DETAILS
9 – 11	MISCELLANEOUS DETAILS
12 – 14	IDOT DETAILS

PROJECT LOCATION MAP



100′ 200′ 300′ — 1″ = 100′
0 10′ 20′ 30′ — 1″ = 10′
0 50′ 100′ — 1″ = 50′
0 50′ 100′ — 1″ = 40′
0 50′ 100′ — 1″ = 30′
0 50′ 100′ — 1″ = 20′

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT J.U.L.I.E. AND THE VILLAGE OF ARLINGTON HEIGHTS PUBLIC WORKS DEPARTMENT TO ARRANGE FOR A JOINT MEET IN ORDER TO LOCATE ALL UNDERGROUND UTILITIES. THIS MUST BE DONE AT LEAST 48 HOURS IN ADVANCE OF ANY PLANNED EXCAVATION. IT IS ALSO THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER OF THE TIME AND PLACE OF SAID JOINT UTILITY MEET.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1–800–892–0123 or 811
VILLAGE OF ARLINGTON HEIGHTS ENGINEERING DIVISION
847–368–5250

Contact the Metropolitan Water Reclamation District of Greater Chicago 2 days before starting work.
P (708) 588-4055
E WMOJobStart@mwrd.org

LOCATION OF SECTION INDICATED THUS: -

LUKE MATTSON
062-059493
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

DATE: 2/6/2026
SEAL EXPIRES: 11/30/2027

To the best of my knowledge and belief, the drainage of surface waters will not be changed by the proposed development. If any drainage patterns will be changed, reasonable provisions have been made for the collection and diversion of such surface waters in to the public area, or drains approved for the use by the municipal engineer, and that such surface waters are planned for in accordance with generally accepted engineering practices so as to reduce the likelihood of damages to adjoining properties. It is my opinion, based on current FEMA Flood Insurance Rate Maps, and a site investigation that there are no flood protection areas within the area of the work or 100–feet beyond the project limits, including floodplains, riparian areas, or wetlands.

BENCHMARK (NAVD 88)

CP1
CHSLD "X" LOCATED IN PCC WALK
NE CORNER OF E. KENSINGTON RD
& S. REGENCY DR.
EL = 676.99

CP2
CHSLD "X" LOCATED IN PCC WALK
E. SIDE OF S. REGENCY DRIVE ±65'
N. OF NE CORNER OF S. REGENCY DR.
& REGENCY CT. W
EL = 676.98

CiorbaGroup
CONSULTING ENGINEERS
DESIGN FIRM REGISTRATION NUMBER: 184-001016
8725 W. Higgins Road, Suite 600 | Chicago, IL 60631
P 773.775.4009 | www.ciorba.com

GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (ADOPTED JANUARY 1, 2022); THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" (ADOPTED JANUARY 1, 2024); THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS; STANDARD STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS (CURRENT EDITION), THE DETAILS" ON THE PLANS AND THE "SPECIAL PROVISIONS" INCLUDED IN THE CONTRACT DOCUMENTS. ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED AS THE LATEST STANDARD OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

2. ITEMS OF WORK LISTED IN THE SUMMARY OF QUANTITIES WHICH ARE NOT SPECIFICALLY INDICATED IN THE PLANS SHALL BE PERFORMED AT LOCATIONS AS DIRECTED BY THE ENGINEER.

3. THE TOP OF ALL STRUCTURES SHALL BE FLUSH WITH THE ADJACENT SURFACE OR AT THE INDICATED ELEVATIONS SHOWN ON THE PLANS.

4. FRAME ELEVATIONS ARE GIVEN ONLY TO ASSIST IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF THE STRUCTURE. FRAMES ON ALL NEW STRUCTURES WILL BE ADJUSTED TO THE FINAL ELEVATION OF THE AREA IN WHICH THEY ARE LOCATED AS PART OF THE STRUCTURE COST.

5. WHEN, IN THE CONSTRUCTION OPERATION, ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DITCHES, GUTTERS OR OTHER DRAINAGE STRUCTURES SO THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, IT SHALL BE REMOVED AT THE CLOSE OF EACH DAY BY THE CONTRACTOR AT HIS EXPENSE. AT THE CONCLUSION OF THE CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES SHALL BE FREE FROM ALL DIRT AND DEBRIS. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT.

6. THE APPROXIMATE LOCATION OF KNOWN PUBLIC UTILITIES ARE SHOWN ON THE PLANS. HOWEVER, THE VILLAGE DOES NOT GUARANTEE ITS ACCURACY. PRIOR TO COMMENCING OPERATIONS ON THE PROJECT WHICH MAY IN ANY WAY CREATE THE POSSIBILITY OF INVOLVEMENT WITH EXISTING UTILITIES, THE CONTRACTOR SHALL CONTACT THE UTILITY INVOLVED. ADJUSTMENT OF ALL PUBLIC UTILITIES WITHIN THE LIMITS OF IMPROVEMENT WILL BE DONE BY THE RESPECTIVE OWNERS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED DUE TO DELAYS OR INCONVENIENCE CAUSED BY THESE ADJUSTMENTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF UNDERGROUND INSTALLATION BEFORE STARTING CONSTRUCTION OPERATIONS.

7. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED)

8. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES. THE CONTRACTOR SHALL PROTECT ALL TREES WITHIN AND ADJACENT TO THE CONSTRUCTION SITE DURING THE CLEARING AND SUBSEQUENT CONSTRUCTION OPERATIONS IN ACCORDANCE WITH THE VILLAGE OF ARLINGTON HEIGHTS SPECIAL PROVISION FOR TREE PROTECTION. THOSE TREES TO BE REMOVED AS SHOWN IN THE PLANS SHALL BE DONE IN ACCORDANCE WITH SECTION 201 AND 202 OF THE STANDARD SPECIFICATIONS.

9. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON VILLAGE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE VILLAGE.

10. BARRICADES: THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SAND BAGS ON EACH TYPE I OR TYPE II BARRICADE USED. (ONE (1) WEIGHTED SAND BAG ACROSS EACH BOTTOM RAIL WITH FLASHING LIGHTS).

11. ALL HMA PAVING SHALL FOLLOW DESIGNATED DRIVING LANES. NO LONGITUDINAL PAVING JOINT OR SEAMS ARE ALLOWED WITHIN THE DRIVING LANES. ALL LONGITUDINAL PAVING JOINTS OR SEAMS WILL BE BETWEEN THE DRIVING LANES.

12. ALL PAVEMENT, CURB AND SIDEWALK REMOVALS SHALL BE MADE BY MEANS OF STRAIGHT SAW CUT JOINT. THE COST FOR SAW CUTTING SHALL BE INCLUDED IN REMOVAL ITEMS.

13. 10' TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER TO EXISTING CURB AND GUTTER, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE VARIOUS CURB AND GUTTER PAY ITEMS.

14. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS THROUGHOUT THE REHABILITATION LIMITS AT ALL TIMES. IF DRIVEWAY ACCESS MUST BE RESTRICTED, THE CONTRACTOR SHALL NOTIFY THE VILLAGE AND OWNER IN WRITING 72 HOURS IN ADVANCE.

15. HMA AND PCC DRIVEWAYS SHALL BE CONSTRUCTED WITH A 3' FLARE ACCORDING TO THE ARLINGTON HEIGHTS TYPICAL DRIVEWAY DETAIL. BRICK DRIVES SHALL BE CONSTRUCTED TO MATCH THE EXISTING LAYOUT.

16. THE CONTRACTOR SHALL BE REQUIRED TO MOVE ANY DECORATIVE ROCKS, PAVER BRICKS, OR LANDSCAPE ITEMS THAT INTERFERE WITH CONSTRUCTION. UPON COMPLETION OF THE CONSTRUCTION, THE CONTRACTOR SHALL MOVE THESE ITEMS BACK TO THEIR ORIGINAL LOCATION AND IN THEIR ORIGINAL CONDITION. THIS WORK WILL BE CONSIDERED INCLUDED IN THE CONTRACT.

17. THE CONTRACTOR/DEVELOPER ASSUMES ALL RESPONSIBILITY AND LIABILITY FOR ANY ACTION RESULTING FROM THEIR WORK WITHIN THE PUBLIC RIGHT-OF-WAY.

18. ALL COORDINATES SHOWN ARE BASED UPON THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE, MAP COORDINATES REFLECT NAD 83 (2011 ADJUSTMENT)

19. EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.

20. THE CONTRACTOR SHALL MAINTAIN THE SITE IN A CLEAN AND ORDERLY MANNER. DEBRIS AND ANY SURPLUS MATERIAL SHALL BE REMOVED AND RESTORATION SHALL PROCEED AS WORK PROCEEDS. IF THE ENGINEER SO DIRECTS, THE CONTRACTOR SHALL STOP ALL OTHER WORK AND CONCENTRATE ON CLEAN-UP AND RESTORATION. DEBRIS AND SURPLUS MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR OFF-SITE. ANY DAMAGE CAUSED BY THE CONTRACTOR TO EXISTING PAVEMENT, CURB & GUTTER, AND SIDEWALK NOT SHOWN AS REMOVED OR WORKED ON DURING CONSTRUCTION SHALL BE REPAIRED AND REPLACED.

21. THE FINAL TOP FOUR INCHES OF SOIL IN DISTURBED RIGHT-OF-WAY AREA BY THE CONTRACTOR MUST BE A COHESIVE SOIL CAPABLE OF SUPPORTING VEGETATION.

22. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS, PROPERTY CORNERS, AND REFERENCE MARKERS UNTIL THE OWNER, HIS AGENT, OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.

23. THE CONTRACTOR SHALL PROVIDE ENOUGH TYPE III BARRICADES TO PROVIDE FOR A COMPLETE ROAD CLOSURE AND AS DIRECTED BY THE ENGINEER. ONE BARRICADE AT EACH SIDE OF CLOSURE SHALL HAVE A "ROAD CLOSED" SIGN AFFIXED TO THE TYPE III BARRICADE AS DIRECTED BY THE ENGINEER.

24. THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL RESIDENTS ON STREETS THAT ARE NOT COMPLETELY CLOSED AND AS DIRECTED BY THE ENGINEER.

25. THE CONTRACTOR SHALL ONLY REMOVE PAVEMENT ON CHICAGO AVE THAT CAN BE FILLED AND COMPACTED TO THE TOP OF EXISTING PAVEMENT OR BE PLATED AT THE END OF THE DAY TO ALLOW FOR TWO-WAY TRAFFIC WHEN NO WORKERS ARE PRESENT.

26. THE CONTRACTOR SHALL PROVIDE "ROAD CONSTRUCTION AHEAD" AND "ROAD CLOSED AHEAD" SIGNS AT LOCATIONS DIRECTED BY THE ENGINNER.

27. ALL MAINTENANCE OF TRAFFIC NOTES LISTED ABOVE, SIGNS, AND BARRICADES SHALL BE INCLUDED IN THE COST OF "TRAFFIC CONTROL AND PROTECTION, (SPECIAL)".

LEGEND:

EXISTING

- BUILDINGS
- RIGHT-OF-WAY
- ROADWAY PLAN-PAVED
- ROADWAY PLAN-UNPAVED
- CENTERLINE
- EASEMENT
- EDGE OF EXISTING PAVEMENT
- FENCE
- TELEPHONE LINE
- GAS MAIN
- WATER MAIN
- ELECTRIC LINE
- EXISTING FORCE MAIN
- COMBINED SEWER
- SANITARY SEWER
- STORM SEWER
- SUMMIT
- DIRECTION OF DRAINAGE
- TREELINE
- VAULT (Electric Utilities)
- TELEPHONE POLE
- SIGN (S)
- FIRE HYDRANT
- POWER POLE
- CATCH BASIN
- LIGHT POLE
- MANHOLE
- INLET
- MISCELLANEOUS POST
- BITUMINOUS PAVEMENT
- CONCRETE PAVEMENT
- BENCHMARK
- BORINGS
- MONITORING WELL
- DECIDUOUS TREE
- BUSH
- VALVE VAULT
- VALVE BOX, B-BOX

PROPOSED

- CONSTRUCTION LIMITS
- FENCE
- SILT FENCE
- FORCE MAIN
- COMBINED SEWER
- SANITARY SEWER
- STORM SEWER
- WATER MAIN
- GAS SERVICE
- RESTRAINED PUSH-ON JOINT
- ABANDON AND REMOVE UTILITY
- LINE STOP
- MANHOLE
- VALVE VAULT
- VALVE BOX, B-BOX
- TREE REMOVAL
- INLET FILTER
- HYDRANT
- TREE PROTECTION

PLAN — SURVEYED ____ BY ____ / NOTED ____ BY ____ / ALIGNMENT CHECKED ____ / RT. OF WAY CHECKED ____ / CLASS I ALE MARK ____ / NOTE BOOK ____ NO. ____ / BY ____ / DATE

PROFILE — SURVEYED ____ BY ____ / NOTED ____ BY ____ / GRADES CHECKED ____ / B.M. NOTED ____ / STRUCTURE NUMBERS CKD ____ / NOTE BOOK ____ NO. ____ / BY ____ / DATE

DATE PLOTTED = 2/6/2026 - 12:06:26 PM
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CiorbaGroup 8725 W. Higgins Rd, Ste 600, Chicago, IL 60631 P 773.775.4009 | www.ciorba.com	USER NAME =	DESIGNED - LAM	REVISED -	VILLAGE OF ARLINGTON HEIGHTS
		DRAWN - NFM	REVISED -	
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REGENCY COURT LIFT STATION RECONSTRUCTION
LEGEND AND GENERAL NOTES

SCALE: NTS | SHEET 1 OF 1 SHEETS | STA. - | TO STA. -

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	14	2
		CONTRACT NO. 22034.01		
	ILLINOIS	FED. AID PROJECT		

PLAN | SURVEYED | NOTES | ALIGNMENT CHECKED | RT. OF WAY CHECKED | CLASS I ALL SAME | NOTE BOOK | NO._____ | BY | DATE

PROFILE | SURVEYED | NOTES | GRADES CHECKED | B.M. NOTED | STRUCTURE NOTES CHKD | NOTE BOOK | NO._____ | BY | DATE

A. REFERENCED SPECIFICATIONS

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE FOLLOWING, EXCEPT AS MODIFIED HEREIN OR ON THE PLANS:
   * STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT SS) FOR ALL IMPROVEMENTS EXCEPT SANITARY SEWER AND WATER MAIN CONSTRUCTION;
   * STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION (SSWS) FOR SANITARY SEWER AND WATER MAIN CONSTRUCTION;
   * VILLAGE OF ARLINGTON HEIGHTS MUNICIPAL CODE;
   * THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO (MWRD) WATERSHED MANAGEMENT ORDINANCE AND TECHNICAL GUIDANCE MANUAL;
   * IN CASE OF CONFLICT BETWEEN THE APPLICABLE ORDINANCES NOTED, THE MORE STRINGENT SHALL TAKE PRECEDENCE AND SHALL CONTROL ALL CONSTRUCTION.

B. NOTIFICATIONS

1. THE MWRD LOCAL SEWER SYSTEMS SECTION FIELD OFFICE MUST BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF ANY WORK (CALL 708-588-4055 OR SEND EMAIL NOTIFICATION WITH PROJECT NAME, LOCATION AND PERMIT NUMBER TO WMOJOBSTART@MWRD.ORG).

2. THE VILLAGE OF ARLINGTON HEIGHTS ENGINEERING DEPARTMENT AND PUBLIC MUST BE NOTIFIED AT LEAST 24 HOURS PRIOR TO THE START OF CONSTRUCTION AND PRIOR TO EACH PHASE OF WORK. CONTRACTOR SHALL DETERMINE ITEMS REQUIRING INSPECTION PRIOR TO START OF CONSTRUCTION OR EACH WORK PHASE.

3. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION FOR THE EXACT LOCATIONS OF UTILITIES AND FOR THEIR PROTECTION DURING CONSTRUCTION. IF EXISTING UTILITIES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION, IMMEDIATELY NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED. CALL J.U.L.I.E. AT 1-800-892-0123.

C. GENERAL NOTES

1. ALL ELEVATIONS SHOWN ON PLANS REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). CONVERSION FACTOR IS 579.19 FT.

2. MWRD, THE MUNICIPALITY AND THE OWNER OR OWNER'S REPRESENTATIVE SHALL HAVE THE AUTHORITY TO INSPECT, APPROVE, AND REJECT THE CONSTRUCTION IMPROVEMENTS.

3. THE CONTRACTOR(S) SHALL INDEMNIFY THE OWNER, ENGINEER, MUNICIPALITY, MWRD, AND THEIR AGENTS, ETC., FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION, OR TESTING OF THIS WORK ON THE PROJECT.

4. THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE ENGINEERING PLANS AS APPROVED BY MWRD AND THE MUNICIPALITY UNLESS CHANGES ARE APPROVED BY MWRD, THE MUNICIPALITY, OR AUTHORIZED AGENT. THE CONSTRUCTION DETAILS, AS PRESENTED ON THE PLANS, MUST BE FOLLOWED. PROPER CONSTRUCTION TECHNIQUES MUST BE FOLLOWED ON THE IMPROVEMENTS INDICATED ON THE PLANS.

5. THE LOCATION OF VARIOUS UNDERGROUND UTILITIES WHICH ARE SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND REPRESENT THE BEST KNOWLEDGE OF THE ENGINEER. VERIFY LOCATIONS AND ELEVATIONS PRIOR TO BEGINNING THE CONSTRUCTION OPERATIONS.

6. ANY EXISTING PAVEMENT, SIDEWALK, DRIVEWAY, ETC., DAMAGED DURING CONSTRUCTION OPERATIONS AND NOT CALLED FOR TO BE REMOVED SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.

7. MATERIAL AND COMPACTION TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MUNICIPALITY, MWRD, AND OWNER.

8. THE UNDERGROUND CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS TO NOTIFY ALL INSPECTION AGENCIES.

9. ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS DISTURBED DURING CONSTRUCTION SHALL BE ADJUSTED TO FINISH GRADE PRIOR TO FINAL INSPECTION.

10. RECORD DRAWINGS SHALL BE KEPT BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER AS SOON AS UNDERGROUND IMPROVEMENTS ARE COMPLETED. FINAL PAYMENTS TO THE CONTRACTOR SHALL BE HELD UNTIL THEY ARE RECEIVED. ANY CHANGES IN LENGTH, LOCATION OR ALIGNMENT SHALL BE SHOWN IN RED. ALL WYES OR BENDS SHALL BE LOCATED FROM THE DOWNSTREAM MANHOLE. ALL VALVES, B-BOXES, TEES OR BENDS SHALL BE TIED TO A FIRE HYDRANT.

D. SANITARY SEWER

1. THE CONTRACTOR SHALL TAKE MEASURES TO PREVENT ANY POLLUTED WATER, SUCH AS GROUND AND SURFACE WATER, FROM ENTERING THE EXISTING SANITARY SEWERS.

2. A WATER-TIGHT PLUG SHALL BE INSTALLED IN THE DOWNSTREAM SEWER PIPE AT THE POINT OF SEWER CONNECTION PRIOR TO COMMENCING ANY SEWER CONSTRUCTION. THE PLUG SHALL REMAIN IN PLACE UNTIL REMOVAL IS AUTHORIZED BY THE MUNICIPALITY AND/OR MWRD AFTER THE SEWERS HAVE BEEN TESTED AND ACCEPTED.

3. DISCHARGING ANY UNPOLLUTED WATER INTO THE SANITARY SEWER SYSTEM FOR THE PURPOSE OF SEWER FLUSHING OF LINES FOR THE DEFLECTION TEST SHALL BE PROHIBITED WITHOUT PRIOR APPROVAL FROM THE MUNICIPALITY OR MWRD.

4. ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS (LATEST EDITION).

5. ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER SYSTEM.

6. ALL DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE TO THE STORM SEWER SYSTEM.

7. ALL SANITARY SEWER PIPE MATERIALS AND JOINTS (AND STORM SEWER PIPE MATERIALS AND JOINTS IN A COMBINED SEWER AREA) SHALL CONFORM TO THE FOLLOWING:

PIPE MATERIAL	PIPE SPECIFICATIONS	JOINT SPECIFICATIONS
VITRIFIED CLAY PIPE	ASTM C-700	ASTM C-425
REINFORCED CONCRETE SEWER PIPE	ASTM C-76	ASTM C-443
CAST IRON SOIL PIPE	ASTM A-74	ASTM C-564
DUCTILE IRON PIPE	ANSI A21.51	ANSI A21.11
POLYVINYL CHLORIDE (PVC) PIPE		
6-INCH TO 15-INCH DIAMETER SDR 26	ASTM D-3034	ASTM D-3212
18-INCH TO 27-INCH DIAMETER F/DY=46	ASTM F-679	ASTM D-3212
HIGH DENSITY POLYETHYLENE (HDPE)	ASTM D-3350 ASTM D-3035	ASTM D-3261,F-2620 (HEAT FUSION) ASTM D-3212,F-477 (GASKETED)
WATER MAIN QUALITY PVC		
4-INCH TO 36-INCH	ASTM D-2241	ASTM D-3139
4-INCH TO 12-INCH	AWWA C900	ASTM D-3139
14-INCH TO 48-INCH	AWWA C905	ASTM D-3139

THE FOLLOWING MATERIALS ARE ALLOWED ON A QUALIFIED BASIS SUBJECT TO DISTRICT REVIEW AND APPROVAL PRIOR TO PERMIT ISSUANCE. A SPECIAL CONDITION WILL BE ADDED TO THE PERMIT WHEN THE PIPE MATERIAL BELOW IS USED FOR SEWER CONSTRUCTION OR A CONNECTION IS MADE.

PIPE MATERIAL	PIPE SPECIFICATIONS	JOINT SPECIFICATIONS
POLYPROPYLENE (PP) PIPE		
12-INCH TO 24-INCH DOUBLE WALL	ASTM F-2736	D-3212, F-477
30-INCH TO 60-INCH TRIPLE WALL	ASTM F-2764	D3212, F-477

8. ALL SANITARY SEWER CONSTRUCTION (AND STORM SEWER CONSTRUCTION IN COMBINED SEWER AREAS), REQUIRES STONE BEDDING WITH STONE ¼ " TO 1" IN SIZE, WITH MINIMUM BEDDING THICKNESS EQUAL TO ¼ THE OUTSIDE DIAMETER OF THE SEWER PIPE, BUT NOT LESS THAN FOUR (4) INCHES NOR MORE THAN EIGHT (8) INCHES. MATERIAL SHALL BE CA-7, CA-11 OR CA-13 AND SHALL BE EXTENDED AT LEAST 12" ABOVE THE TOP OF THE PIPE WHEN USING PVC.

9. NON-SHEAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPES OF DISSIMILAR PIPE MATERIALS.

10. ALL MANHOLES SHALL BE PROVIDED WITH BOLTED, WATERTIGHT COVERS. SANITARY LIDS SHALL BE CONSTRUCTED WITH A CONCEALED PICKHOLE AND WATERTIGHT GASKET WITH THE WORD "SANITARY" CAST INTO THE LID.

11. WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR AN EXISTING MANHOLE, ONE OF THE FOLLOWING METHODS SHALL BE USED:
    a) A CIRCULAR SAW-CUT OF SEWER MAIN BY PROPER TOOLS ("SHEWER-TAP" MACHINE OR SIMILAR) AND PROPER INSTALLATION OF HUBWYE SADDLE OR HUB-TEE SADDLE.
    b) REMOVE AN ENTIRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH SECTION.
    c) WITH PIPE CUTTER, NEATLY AND ACCURATELY CUT OUT DESIRED LENGTH OF PIPE FOR INSERTION OF PROPER FITTING, USING "BAND SEAL" OR SIMILAR COUPLINGS TO HOLD IT FIRMLY IN PLACE.

12. WHENEVER A SANITARY/COMBINED SEWER CROSSES UNDER A WATERMAIN, THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATERMAIN SHALL BE 18 INCHES. FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN SANITARY/COMBINED SEWERS AND WATERMAINS SHALL BE MAINTAINED UNLESS: THE SEWER IS LAID IN A SEPARATE TRENCH, KEEPING A MINIMUM 18" VERTICAL SEPARATION; OR THE SEWER IS LAID IN THE SAME TRENCH WITH THE WATERMAIN LOCATED AT THE OPPOSITE SIDE ON A BENCH OF UNDISTURBED EARTH, KEEPING A MINIMUM 18" VERTICAL SEPARATION. IF EITHER THE VERTICAL OR HORIZONTAL DISTANCES DESCRIBED CANNOT BE MAINTAINED, OR THE SEWER CROSSES ABOVE THE WATER MAIN, THE SEWER SHALL BE CONSTRUCTED TO WATER MAIN STANDARDS OR IT SHALL BE ENCASED WITH A WATER MAIN QUALITY CARRIER PIPE WITH THE ENDS SEALED.

13. ALL EXISTING SEPTIC SYSTEMS SHALL BE ABANDONED. ABANDONED TANKS SHALL BE FILLED WITH GRANULAR MATERIAL OR REMOVED.

14. ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES, AND SHALL BE CAST IN PLACE OR PRE-CAST REINFORCED CONCRETE.

15. ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE PRECAST "RUBBER BOOTS" THAT CONFORM TO ASTM C-923 FOR ALL PIPE CONNECTIONS. PRECAST SECTIONS SHALL CONSIST OF MODIFIED GROOVE TONGUE AND RUBBER GASKET TYPE JOINTS.

16. ALL ABANDONED SANITARY SEWERS SHALL BE PLUGGED AT BOTH ENDS WITH AT LEAST 2 FEET LONG NON-SHRINK CONCRETE OR MORTAR PLUG.

17. EXCEPT FOR FOUNDATION/FOOTING DRAINS PROVIDED TO PROTECT BUILDINGS, OR PERFORATED PIPES ASSOCIATED WITH VOLUME CONTROL FACILITIES, DRAIN TILES/FIELD TILES/UNDERDRAINS/PERFORATED PIPES ARE NOT ALLOWED TO BE CONNECTED TO OR TRIBUTARY TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS IN COMBINED SEWER AREAS. CONSTRUCTION OF NEW FACILITIES OF THIS TYPE IS PROHIBITED; AND ALL EXISTING DRAIN TILES AND PERFORATED PIPES ENCOUNTERED WITHIN THE PROJECT AREA SHALL BE PLUGGED OR REMOVED, AND SHALL NOT BE CONNECTED TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS.

18. A BACKFLOW PREVENTER IS REQUIRED FOR ALL DETENTION BASINS TRIBUTARY TO COMBINED SEWERS. REQUIRED BACKFLOW PREVENTERS SHALL BE INSPECTED AND EXERCISED ANNUALLY BY THE PROPERTY OWNER TO ENSURE PROPER OPERATION, AND ANY NECESSARY MAINTENANCES SHALL BE PERFORMED TO ENSURE FUNCTIONALITY. IN THE EVENT OF A SEWER SURCHARGE INTO AN OPEN DETENTION BASIN TRIBUTARY TO COMBINED SEWERS, THE PERMITTEE SHALL ENSURE THAT CLEAN UP AND WASH OUT OF SEWAGE TAKES PLACE WITHIN 48 HOURS OF THE STORM EVENT.

E. EROSION AND SEDIMENT CONTROL

1. THE CONTRACTOR SHALL INSTALL THE EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.

2. EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE FUNCTIONAL PRIOR TO HYDROLOGIC DISTURBANCE OF THE SITE.

3. ALL DESIGN CRITERIA, SPECIFICATIONS, AND INSTALLATION OF EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL.

4. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.

5. INSPECTIONS AND DOCUMENTATION SHALL BE PERFORMED, AT A MINIMUM:
   a) UPON COMPLETION OF INITIAL EROSION AND SEDIMENT CONTROL MEASURES, PRIOR TO ANY SOIL DISTURBANCE.
   b) ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT WITH GREATER THAN 0.5 INCH OF RAINFALL OR LIQUID EQUIVALENT PRECIPITATION.

6. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. IF STRIPPING, CLEARING, GRADING, OR LANDSCAPING ARE TO BE DONE IN PHASES, THE CO-PERMITTEE SHALL PLAN FOR APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL MEASURES.

7. A STABILIZED MAT OF CRUSHED STONE MEETING THE STANDARDS OF THE ILLINOIS URBAN MANUAL SHALL BE INSTALLED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE. SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.

8. CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL AND SHALL BE INSTALLED PRIOR TO ANY ON SITE CONSTRUCTION ACTIVITIES INVOLVING CONCRETE.

9. MORTAR WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ADDITION TO CONCRETE WASHOUT FACILITIES FOR ANY BRICK AND MORTAR BUILDING ENVELOPE CONSTRUCTION ACTIVITIES.

10. TEMPORARY DIVERSIONS SHALL BE CONSTRUCTED AS NECESSARY TO DIRECT ALL RUNOFF FROM HYDROLOGICALLY DISTURBED AREAS TO AN APPROPRIATE SEDIMENT TRAP OR BASIN. VOLUME CONTROL FACILITIES SHALL NOT BE USED AS TEMPORARY SEDIMENT BASINS.

11. DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) DAYS.

12. ALL FLOOD PROTECTION AREAS AND VOLUME CONTROL FACILITIES SHALL, AT A MINIMUM, BE PROTECTED WITH A DOUBLE-ROW OF SILT FENCE (OR EQUIVALENT).

13. VOLUME CONTROL FACILITIES SHALL NOT BE CONSTRUCTED UNTIL ALL OF THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.

14. SOIL STOCKPILES SHALL, AT A MINIMUM, BE PROTECTED WITH PERIMETER SEDIMENT CONTROLS. SOIL STOCKPILES SHALL NOT BE PLACED IN FLOOD PROTECTION AREAS OR THEIR BUFFERS.

15. EARTHEN EMBANKMENT SIDE SLOPES SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL BLANKET.

16. STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY APPROPRIATE SEDIMENT CONTROL MEASURES.

17. THE CONTRACTOR SHALL EITHER REMOVE OR REPLACE ANY EXISTING DRAIN TILES AND INCORPORATE THEM INTO THE DRAINAGE PLAN FOR THE DEVELOPMENT. DRAIN TILES CANNOT BE TRIBUTARY TO A SANITARY OR COMBINED SEWER. DRAIN TILES ALLOWED IN COMBINED SEWER AREA FOR GREEN INFRASTRUCTURE PRACTICES.

18. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. DEWATERING SYSTEMS SHOULD BE INSPECTED DAILY DURING OPERATIONAL PERIODS. THE SITE INSPECTOR MUST BE PRESENT AT THE COMMENCEMENT OF DEWATERING ACTIVITIES.

19. THE CONTRCTOR SHALL BE RESPONSIBLE FOR TRENCH DEWATERING AND EXCAVATION FOR THE INSTALLATION OF SANITARY SEWERS, STORM SEWERS, WATERMAINS AS WELL AS THEIR SERVICES AND OTHER APPURTENANCES. ANY TRENCH DEWATERING, WHICH CONTAINS SEDIMENT SHALL PASS THROUGH A SEDIMENT SETTLING POND OR EQUALLY EFFECTIVE SEDIMENT CONTROL DEVICE. ALTERNATIVES MAY INCLUDE DEWATERING INTO A SUMP PIT, FILTER BAG OR EXISTING VEGETATED UPSLOPE AREA. SEDIMENT LADEN WATERS SHALL NOT BE DISCHARGE TO WATERWAYS, FLOOD PROTECTION AREAS OR THE COMBINED SEWER SYSTEM.

20. ALL PERMANENT EROSION CONTROL PRACTICES SHALL BE INITIATED WITHIN SEVEN (7) DAYS FOLLOWING THE COMPLETION OF SOIL DISTURBING ACTIVITIES.

21. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AND REPAIRED AS NEEDED ON A YEAR-ROUND BASIS DURING CONSTRUCTION AND ANY PERIODS OF CONSTRUCTION SHUTDOWN UNTIL PERMANENT STABILIZATION IS ACHIEVED.

22. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER PERMANENT SITE STABILIZATION.

23. THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER, SITE INSPECTOR, OR MWRD.

PERPETUAL MAINTENANCE NOTES

Planned annual lift station routine maintenance should include the following upon completion of construction:

A. WEEKLY

1. Visually Inspect the station for vandalism and security.
2. Record pump hours for each pump.
3. Review control panel alarm history.
4. Run each pump in hand mode and observe level control for proper operation.
5. Visually inspect standby generator for fuel level and operation readiness.

B. MONTHLY

1. Open up wet well and visually inspect the pumping of each pump.
2. Completely pump down the wet well to its lowest point and make a visual inspection.
3. Check wet well floats and transducer for debris build up, clean as needed.
4. Exercise generator.

C. QUARTERLY

1. Clean grit and grease from the wet well using a vac truck.
2. Operate generator under load for 15 minutes by tripping station power.
3. Observe for successful transfer to generator power.
4. Operate emergency portable generator.

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VILLAGE OF ARLINGTON HEIGHTS

REGENCY COURT LIFT STATION RECONSTRUCTION
MWRD GENERAL NOTES AND MAINTENANCE NOTES

SCALE: NTS | SHEET 1 OF 1 SHEETS | STA. - | TO STA. -

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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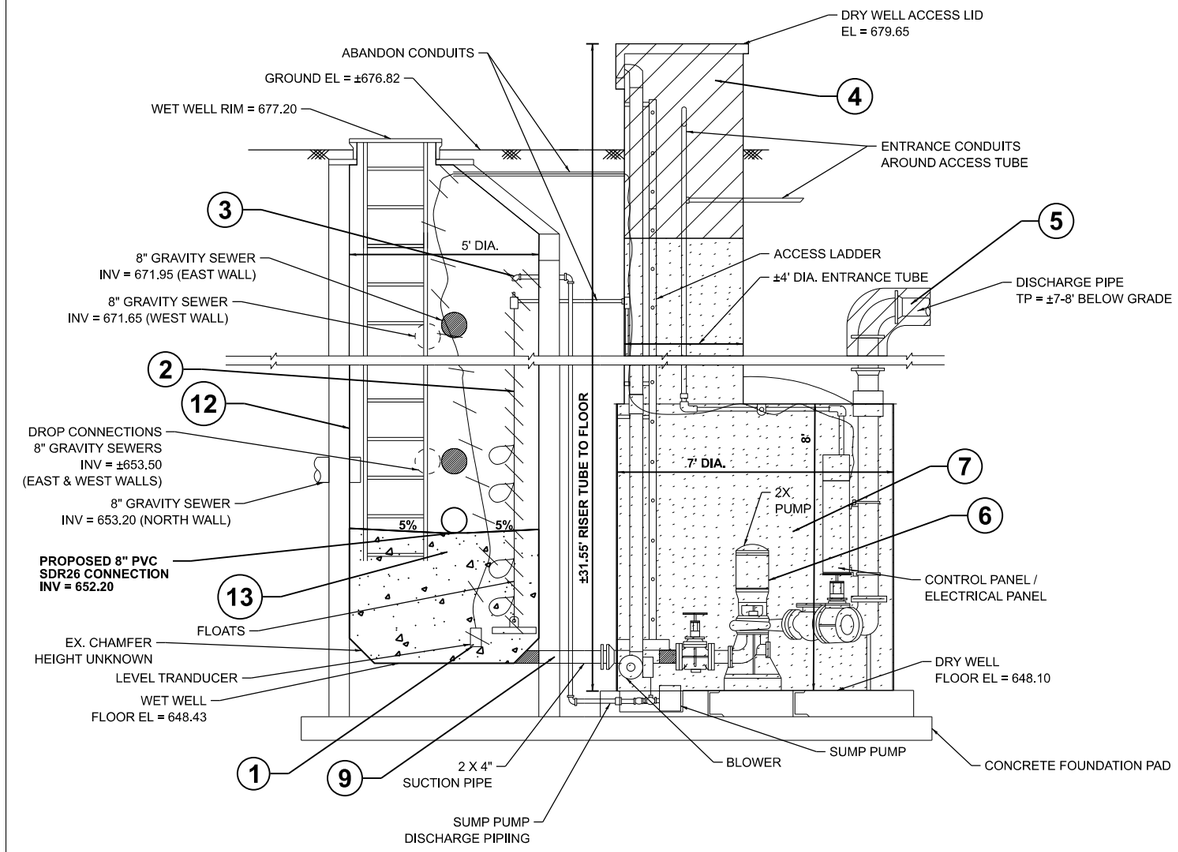
		CONTRACT NO. 22034.01		
		ILLINOIS	FED. AID PROJECT	

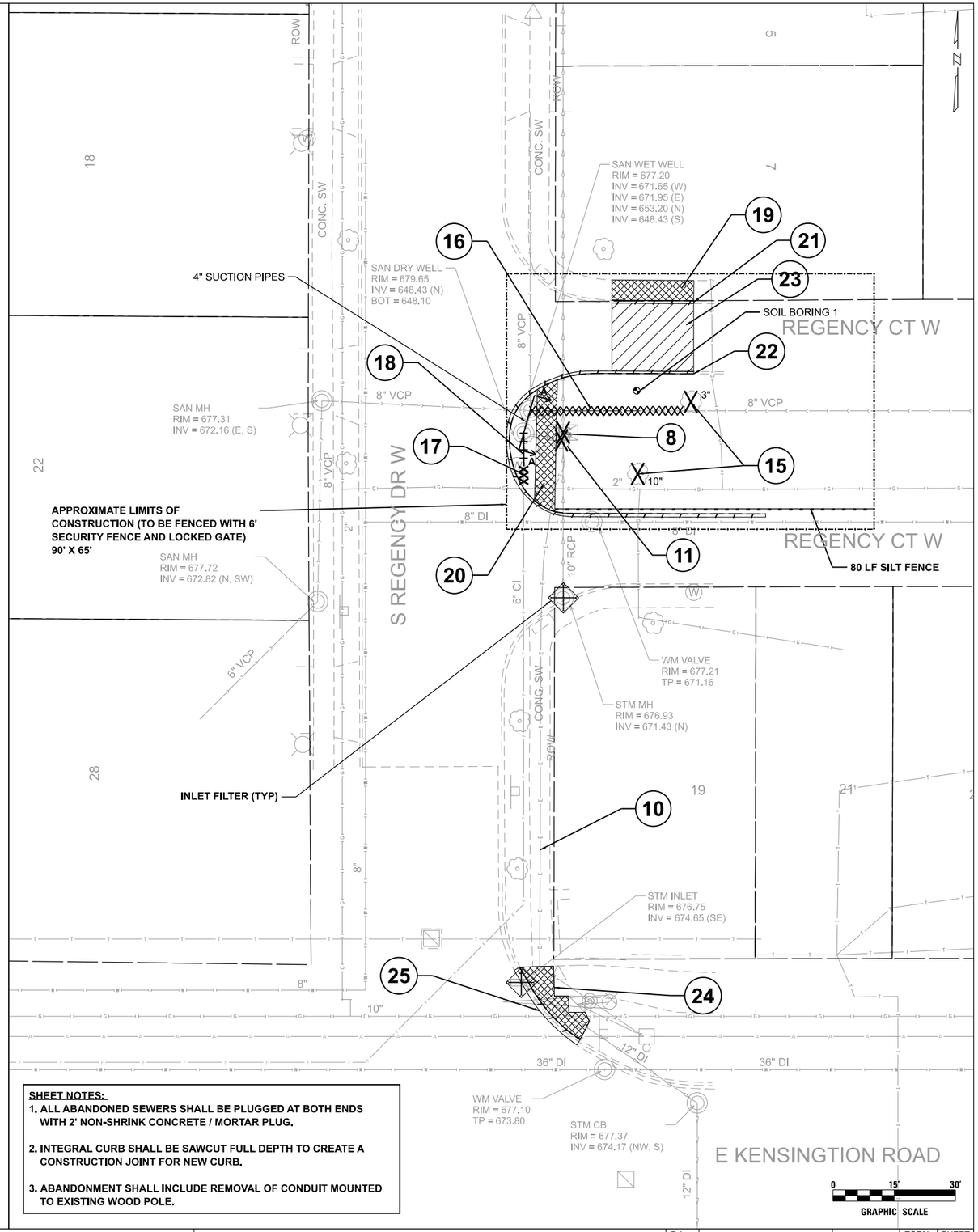


EXISTING WET & DRY WELLS SECTION A–A

N.T.S.

DEMOLITION SCHEDULE

1	REMOVE PRESSURE TRANSDUCER COMPONENTS. PLUG WET WELL PENETRATIONS WITH NON-SHRINK GROUT.
2	REMOVE FLOAT SYSTEM. PLUG WET WELL PENETRATIONS WITH NON-SHRINK GROUT.
3	REMOVE SUMP DISCHARGE PIPE WITHIN WET WELL. PLUG WET WELL PENETRATIONS WITH NON-SHRINK GROUT.
4	REMOVE EXISTING STEEL DRY WELL ACCESS TUBE, LADDER, AND HATCH TO A MINIMUM DEPTH OF 5-FEET BELOW GRADE.
5	APPROX. 30 LF OF 6" DUCTILE IRON FORCE MAIN BETWEEN DRY WELL AND PROPOSED FORCE MAIN CONNECTION POINT. PLUG DOWNSTREAM END WITH 2' NON-SHRINK CONCRETE/MORTAR PLUG.
6	REMOVE EXISTING DRY WELL EQUIPMENT (PUMPS, BLOWER, ELECTRICAL PANEL, SUMP PUMP, DEHUMIDIFIER, LIGHTING, CONDUIT, ETC.).
7	BACKFILL EXISTING DRY WELL AND ACCESS RISER WITH FLOWABLE FILL.
8	REMOVE EXISTING SCADA / EMERGENCY POWER PANEL AND CONCRETE FOUNDATION.
9	ABANDON EXISTING SUCTION LINES, INSTALL 2' NON-SHRINK CONCRETE / MORTAR PLUG.
10	ABANDON EXISTING ELECTRICAL SERVICE. (SEE SHEET NOTE 3)
11	REMOVE ELECTRICAL SERVICE METER AND ENCLOSURE. CONDUCTORS FEEDING METER SHALL ALSO BE REMOVED AFTER NEW COMED SERVICE IS ENERGIZED BY COMED.
12	PULL ABANDONED CABLES AND REMOVE ABANDONED CONDUIT TO BE FLUSH WITH WALL. PLUG CONDUIT PENETRATIONS WITH NON-SHRINK GROUT. SEAL ANY REMAINING HOLE, SPALLING, AND CRACKS WITH HIGH PERFORMANCE, NON-METALLIC, NON-SHRINK CEMENTITIOUS GROUT.
13	FILL BOTTOM 3.77' OF EXISTING WET WELL WITH CONCRETE AND FORM NEW BENCH WITH 5% SLOPED FLOOR.
14	NOT USED
15	TREE REMOVAL (3" AND 10").
16	REMOVE EXISTING 8" VCP SANITARY SEWER AS NEED TO INSTALL IMPROVEMENTS. APPROX. 35 LF.
17	REMOVE EXISTING 6" CI SANITARY FORCE MAIN AS NEED TO INSTALL IMPROVEMENTS. APPROX. 5 LF.
18	ABANDON 9 LF OF EXISTING 6" CI SANITARY FORCE MAIN.
19	100 SF SIDEWALK REMOVAL
20	148 SF SIDEWALK REMOVAL
21	20 LF CURB AND GUTTER REMOVAL (SEE SHEET NOTE 2).
22	128 LF CURB AND GUTTER REMOVAL (SEE SHEET NOTE 2).
23	37 SY CONCRETE PAVEMENT REMOVAL
24	108 SF SIDEWALK REMOVAL
25	24 LF CURB AND GUTTER REMOVAL.



SHEET NOTES:

1. ALL ABANDONED SEWERS SHALL BE PLUGGED AT BOTH ENDS WITH 2' NON-SHRINK CONCRETE / MORTAR PLUG.
2. INTEGRAL CURB SHALL BE SAWCUT FULL DEPTH TO CREATE A CONSTRUCTION JOINT FOR NEW CURB.
3. ABANDONMENT SHALL INCLUDE REMOVAL OF CONDUIT MOUNTED TO EXISTING WOOD POLE.

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VILLAGE OF ARLINGTON HEIGHTS

REGENCY COURT LIFT STATION RECONSTRUCTION
EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1" = 15' | SHEET 1 OF 1 SHEETS | STA. - TO STA. -

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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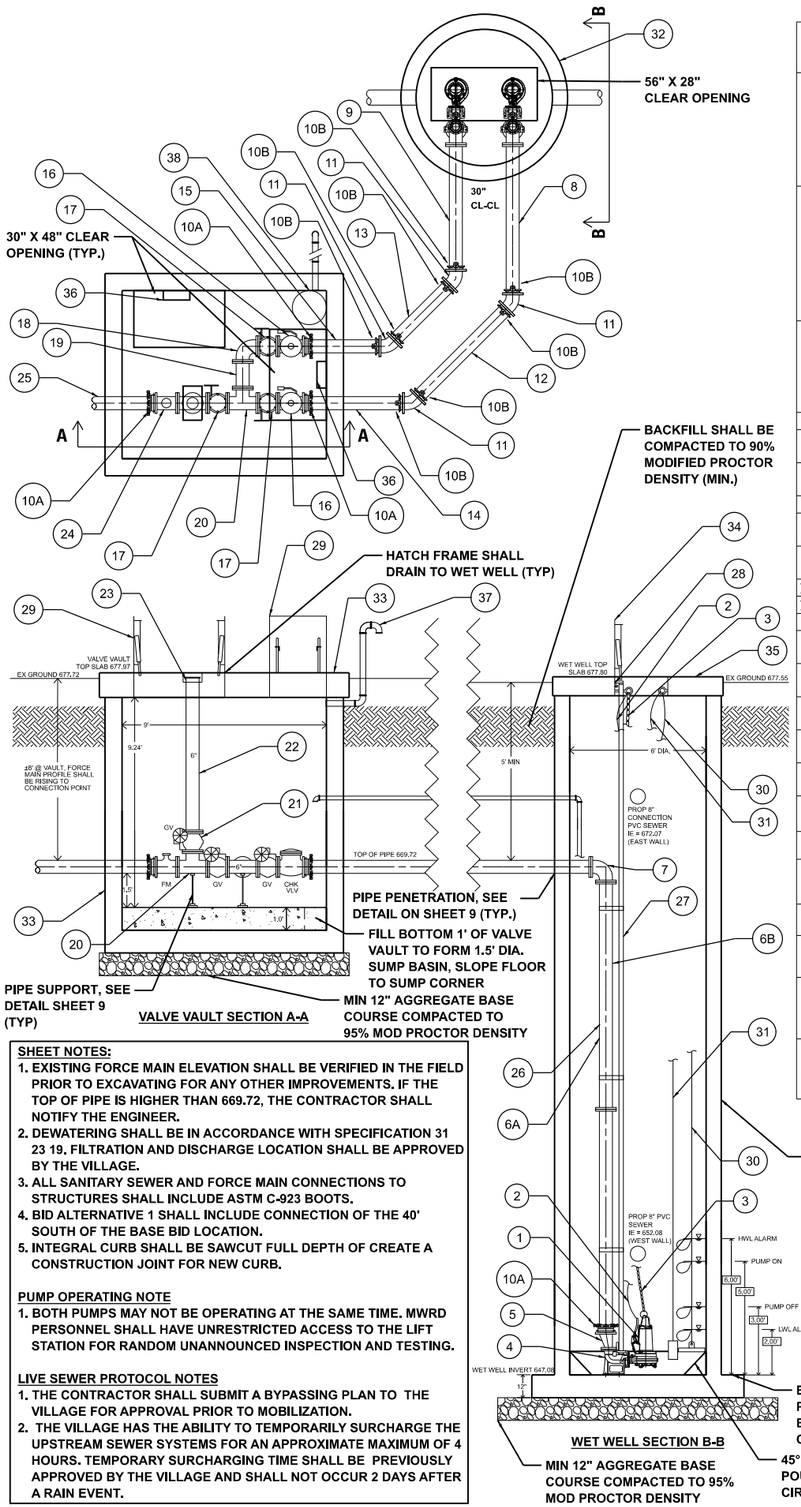


SHEET NOTES:

1. EXISTING FORCE MAIN ELEVATION SHALL BE VERIFIED IN THE FIELD PRIOR TO EXCAVATING FOR ANY OTHER IMPROVEMENTS. IF THE TOP OF PIPE IS HIGHER THAN 669.72, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.
2. DEWATERING SHALL BE IN ACCORDANCE WITH SPECIFICATION 31 23 19. FILTRATION AND DISCHARGE LOCATION SHALL BE APPROVED BY THE VILLAGE.
3. ALL SANITARY SEWER AND FORCE MAIN CONNECTIONS TO STRUCTURES SHALL INCLUDE ASTM C-923 BOOTS.
4. BID ALTERNATIVE 1 SHALL INCLUDE CONNECTION OF THE 40' SOUTH OF THE BASE BID LOCATION.
5. INTEGRAL CURB SHALL BE SAWCUT FULL DEPTH OF CREATE A CONSTRUCTION JOINT FOR NEW CURB.

PUMP OPERATING NOTE

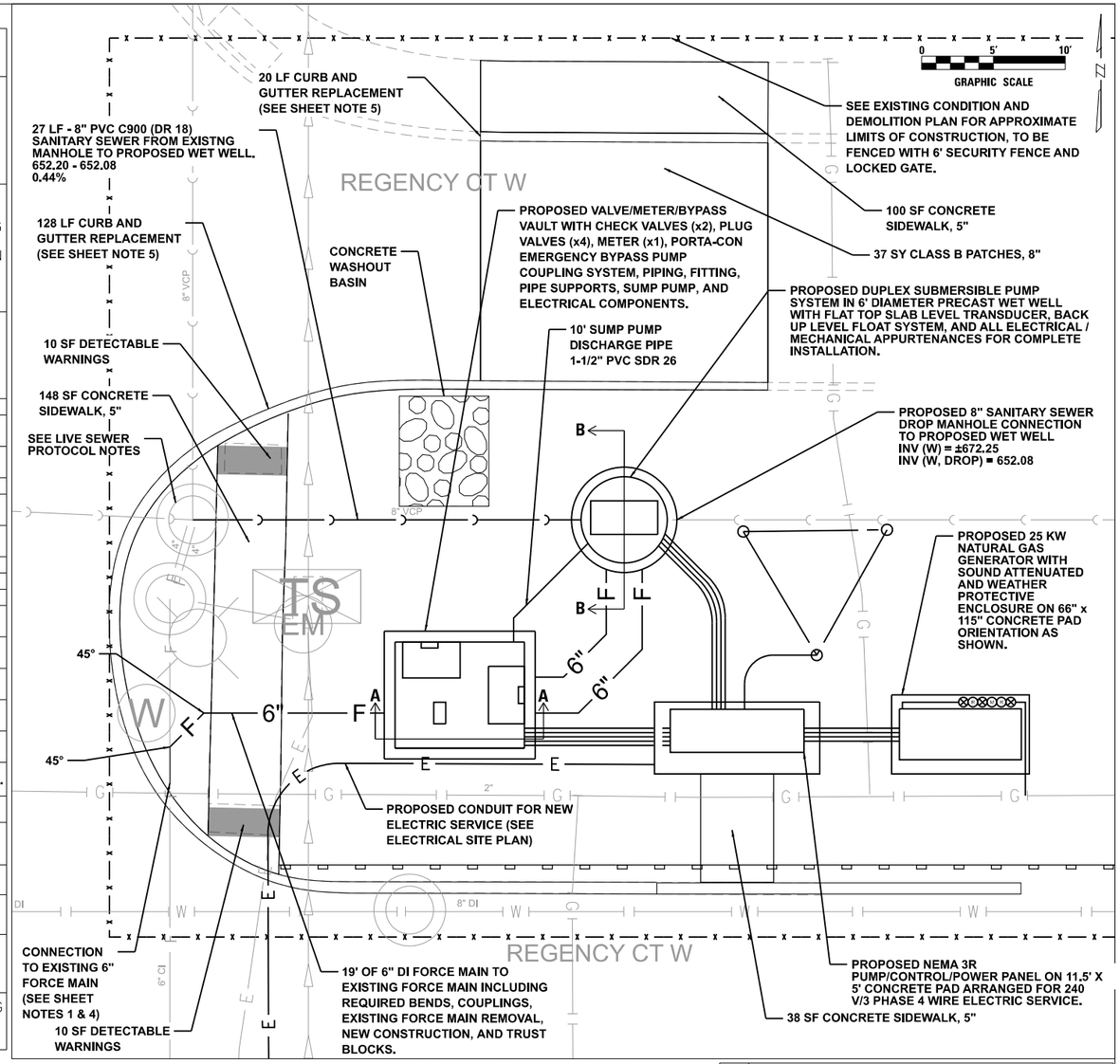
1. BOTH PUMPS MAY NOT BE OPERATING AT THE SAME TIME. MWRD PERSONNEL SHALL HAVE UNRESTRICTED ACCESS TO THE LIFT STATION FOR RANDOM UNANNOUNCED INSPECTION AND TESTING.

LIVE SEWER PROTOCOL NOTES

1. THE CONTRACTOR SHALL SUBMIT A BYPASSING PLAN TO THE VILLAGE FOR APPROVAL PRIOR TO MOBILIZATION.
2. THE VILLAGE HAS THE ABILITY TO TEMPORARILY SURCHARGE THE UPSTREAM SEWER SYSTEMS FOR AN APPROXIMATE MAXIMUM OF 4 HOURS. TEMPORARY SURCHARGING TIME SHALL BE PREVIOUSLY APPROVED BY THE VILLAGE AND SHALL NOT OCCUR 2 DAYS AFTER A RAIN EVENT.

IMPROVEMENTS SCHEDULE

1	2X SUBMERSIBLE RAW SEWAGE PUMP WITH CENTER DISCHARGE, 4" ABS XFP 80C CB1 OR APPROVED EQUAL.
2	POWER AND CONTROL CABLES TO PUMPING UNIT. SUPPORT CABLES WITH STAINLESS STEEL KELLEMS GRIPS HUNG FROM SUPPORT. LOOP EXCESS PUMP CABLE (3' MIN TO 6' MAX LENGTH) OVER SUPPORT. TIE POWER AND CONTROL CABLES TOGETHER PER MANUFACTURERS RECOMMENDATIONS.
3	316 STAINLESS STEEL LIFTING CHAIN LOOPED THROUGH PUMP LIFTING ASSEMBLY AND SECURED WITH 316 STAINLESS STEEL LOCKING CLEVIS. PROVIDE CONNECTOR AT END OF CHAIN TO CREATE LOOP AND HANG FROM CHAIN SUPPORT. CHAIN SHALL HAVE A MINIMUM RATED CAPACITY OF 3 TIMES PUMPING UNIT WEIGHT.
4	PUMP DISCHARGE ELBOW FURNISHED BY PUMP MANUFACTURER. ANCHOR ELBOW WITH STAINLESS STEEL ANCHOR BOLTS (CAST-IN-PLACE OR DRILL AND EPOXY). ANCHOR BOLT SIZE, NUMBER, AND EMBEDMENT PER PUMP MANUFACTURER.
5	6" X 3" FLANGED ECCENTRIC REDUCER.
6A	6" PE X FLG DI SPOOL, 9' 9" (LENGTH TO BE VERIFIED IN FIELD).
6B	6" FLG X FLG DI SPOOL, 10' 0" (LENGTH TO BE VERIFIED IN FIELD)
7	6" DI 90° FLANGED ELBOW.
8	6" FLG X PE DI SPOOL, 6' 7" (LENGTH TO BE VERIFIED IN FIELD).
9	6" FLG X PE DI SPOOL, 5' 6" (LENGTH TO BE VERIFIED IN FIELD).
10A	6" RESTRAINED MJ X FLG ADAPTER.
10B	6" MECHANICAL JOINT RESTRAINT
11	6" DI 45° MJ ELBOW.
12	6" PE X PE DI SPOOL, 5' 5" (LENGTH TO BE VERIFIED IN FIELD).
13	6" PE X PE DI SPOOL, 3' 4" (LENGTH TO BE VERIFIED IN FIELD).
14	6" PE X PE DI SPOOL, 4' 4" (LENGTH TO BE VERIFIED IN FIELD).
15	6" PE X PE DI SPOOL, 3' 4" (LENGTH TO BE VERIFIED IN FIELD).
16	6" SWING CHECK VALVE WITH OUTSIDE LEVEL AND SPRING.
17	6" PLUG VALVE WITH 2" HANDWHEEL ACTUATOR.
18	6" DI 45° FLANGED ELBOW ON PIPE SUPPORT.
19	6" FLG X FLG DI SPOOL, 1' 2" (LENGTH TO BE VERIFIED IN FIELD) ON PIPE SUPPORT.
20	6" DI FLANGED EQUAL TEE ON PIPE SUPPORT.
21	6" PLUG VALVE WITH HANDWHEEL ACTUATOR.
22	6" DI BYPASS PIPE SPOOL, 6' 10" (LENGTH TO BE VERIFIED IN FIELD) WITH FLANGED END AND PORTA-CON BYPASS CONNECTION.
23	PORT-CON EMERGENCY BYPASS PUMP COUPLING SYSTEM, PART #PC106, AS MANUFACTURED BY PRECISION SYSTEMS.



IMPROVEMENTS SCHEDULE CONT.

24	6" MAGNETIC FLOW METER. FURNISH FLANGED END SPOOL (LENGTH TO MATCH LENGTH OF FLOW METER) TO BE INSTALLED WHEN METER IS REMOVED FOR SERVICE. CONTRACTOR TO SET PIPE SPOOL IN PLACE TO VERIFY FIT, THEN REPLACE WITH FLOW METER.
25	6" PE X MJ DI SPOOL TO FORCE MAIN 45° FITTING. SEE PLAN VIEW.
26	INTERMEDIATE GUIDE RAIL SUPPORT, 316 SS, SPACED VERTICALLY BETWEEN TOP AND BOTTOM ELBOWS, ATTACH TO PIPE PER MANUFACTURERS SPECIFICATION.
27	SCHEDULE 40 316 STAINLESS STEEL PIPE GUIDE RAILS FOR SUBMERSIBLE PUMP, PER MANUFACTURERS SPECIFICATIONS.
28	UPPER GUIDE RAIL SUPPORT ALL 316 STAINLESS STEEL. ATTACH TO ACCESS HATCH FRAME BELOW HATCH AND GRATE CLEARANCE.
29	SPRING ASSIST DOUBLE LEAF ACCESS HATCH, STAINLESS STEEL WITH ALUMINUM DIAMOND PLATE PER PROJECT SPECIFICATIONS. MINIMUM CLEAR OPENING SHALL BE 30" X 48". OPENING SHALL BE COORDINATED WITH PUMP SUPPLIER PRIOR TO CASTING.
30	1/4" DIAMETER, 304 STAINLESS STEEL WIRE ROPE ATTACHED TO 15 LB PVC COATED WEIGHT. LOCATE APPROXIMATELY 12" FROM BOTTOM OF WET WELL. ATTACH BACKUP FLOAT SWITCH CABLES TO WIRE ROPE AT LEVELS SPECIFIED WITH NYLON TIES. PROVIDE CLOSED LOOP AT TOP OF WIRE ROPE FOR SUPPORT HOOK.
31	WATER LEVEL PRESSURE TRANSDUCER, 304 STAINLESS STEEL WIRE ROPE ATTACHED TO 15 LB PVC COATED WEIGHT. PROVIDE CLOSED LOOP AT TOP OF WIRE ROPE FOR SUPPORT HOOK.
32	NEW 6' DIAMETER WET WELL WITH EXTERIOR ASPHALT EMULSION COATING.
33	NEW VALVE VAULT PER DETAIL, SHEET 11.
34	SPRING ASSIST ACCESS HATCH, STAINLESS STEEL WITH ALUMINUM DIAMOND PLATE PER PROJECT SPECIFICATIONS. MINIMUM CLEAR OPENING SHALL BE 56" X 28". OPENING SHALL BE COORDINATED WITH PUMP SUPPLIER PRIOR TO CASTING.
35	NEW HS-20 LOAD RATED 10" PRECAST WET WELL FLAT TOP SLAB. CASTING SHALL BE COORDINATED WITH PUMP SUPPLIER.
36	14" WIDE COPOLYMER PLASTIC STEPS WITH CONTINUOUS 1/2 INCH STEEL REINFORCEMENT, SPACED VERTICAL AT 16" FROM HATCH VAULT TO FLOOR.
37	3" THREADED GALVANIZED STEEL VENT WITH LONG RADIUS 90 DEGREE FITTINGS FOR GOOSENECK DOWNWARD TURNING OUTLET AND STAINLESS STEEL INSECT SCREEN 2-FEET ABOVE FINISHED GRADE. SAND, CLEAN, AND APPLY PRIMER AND TOP COAT OF BLACK RUST PREVENTION PAINT. ORIENTATION SHALL BE DETERMINED IN THE FIELD.
38	CAST IRON, ANTI CLOG VORTEX IMPELLER SUMP PUMP WITH 1-1/2" DISCHARGE PIPING TO WET WELL.

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VILLAGE OF ARLINGTON HEIGHTS

REGENCY COURT LIFT STATION RECONSTRUCTION
PROPOSED LIFT STATION PLAN AND DETAILS

SCALE: 1' = 5" | SHEET 1 OF 1 SHEETS | STA. - | TO STA. -

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	14	5
		CONTRACT NO. 22034.01		
		ILLINOIS	FED. AID PROJECT	

SCHEDULE OF CONDUIT AND CABLE

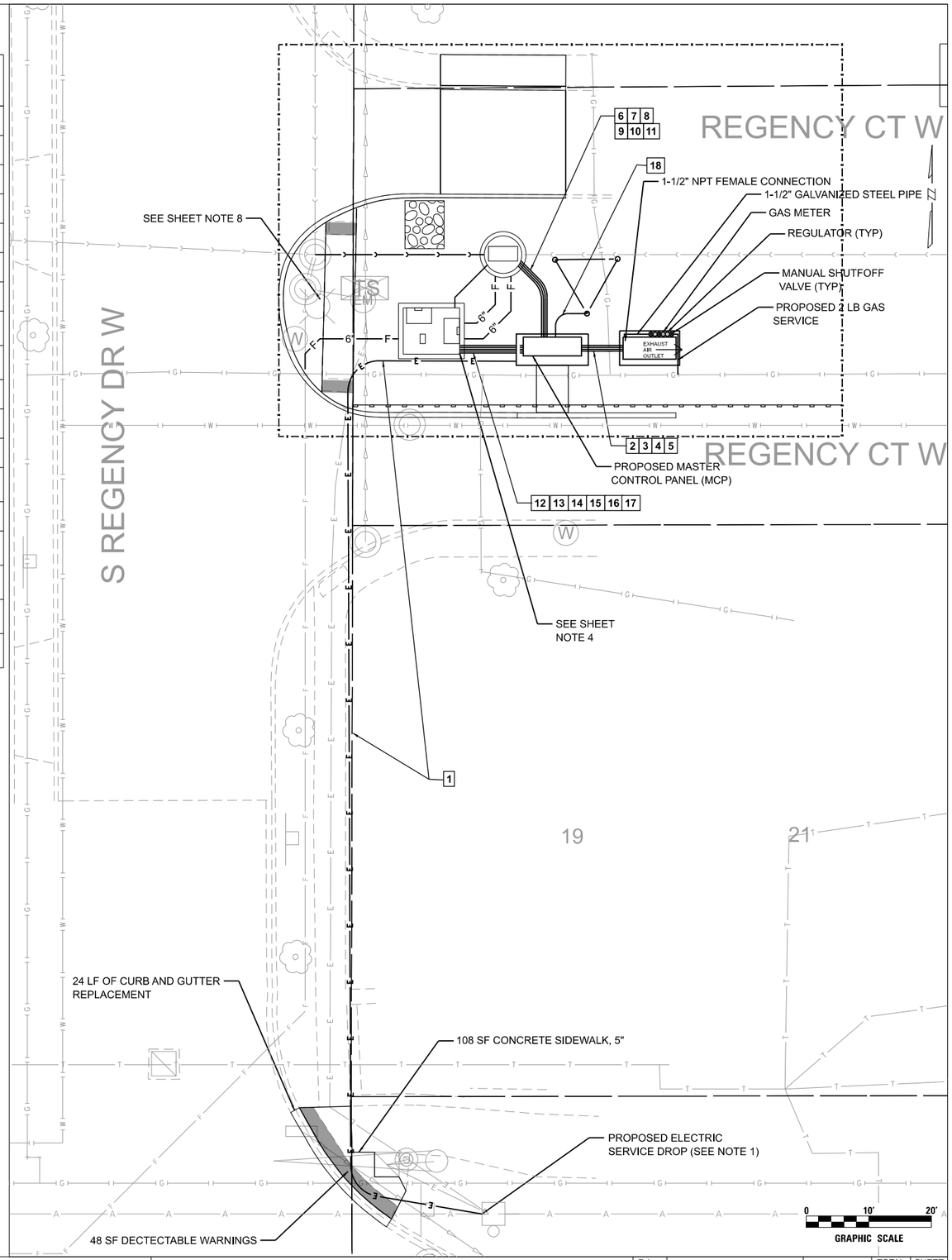
TAG	FROM	TO	CONDUIT QTY.	CONDUIT SIZE	CONDUIT MATL.	POWER (P) / CONTROLS (C)	CABLE	NOTES
1	COMED POLE MOUNTED TRANSFORMER	NEW METER	1	3"	RGS	P	4-1/C #2	2
2	STANDBY GENERATOR	MCP	1	3"	RGS	P	4-1/C #2 & 1/C #8 GROUND	
3	STANDBY GENERATOR - BATTERY CHARGER	MCP	1	1"	RGS	P	2-1/C #10 & 1/C #10 GROUND (BATTERY CHARGER)	
4	STANDBY GENERATOR - BLOCK HEATER	MCP	1	1"	RGS	P	2-1/C #10 & 1/C #10 GROUND (BLOCK HEATER)	
5	STANDBY GENERATOR - CONTROLS	MCP	1	2"	RGS	C	8-1/C #14 & CAT5 CABLE	
6	MCP	PUMP 1	1	2"	RGS	P/C	MANUFACTURER POWER AND CONTROL CORD	6
7	MCP	PUMP 2	1	2"	RGS	P/C	MANUFACTURER POWER AND CONTROL CORD	6
8	MCP	LEVEL TRANSDUCER	1	1"	RGS	C	MANUFACTURER CORD CABLE	6
9	MCP	FLOATS	1	2"	RGS	C	MANUFACTURER CORD CABLES	6
10	MCP	SPARE WET WELL	1	2"	RGS	SPARE	1/2" POLYESTER FIBER PULL TAPE	6
11	MCP	WET WELL GROUND	1	1"	RGS	GROUND	1/C #6 GROUND (SOLID)	6
12	MCP	FLOW METER TRANSMITTER	1	1"	RGS	P	MANUFACTURER CORD CABLE	
13	MCP	FLOW METER TRANSMITTER	1	1"	RGS	C	MANUFACTURER CORD CABLE	
14	MCP	FLOOD SWITCH	1	1"	RGS	C	MANUFACTURER CORD CABLE	
15	MCP	RECEPTACLE	1	1"	RGS	P	3-1/C #10 & 1/C #10 GROUND	3
16	MCP	LIGHT	1	1"	RGS	P	2-1/C #12 & 1/C #12 GROUND	
17	MCP	SPARE VALVE VAULT	1	1"	RGS	SPARE	1/2" PLYESTER FIBER PULL TAPE	
18	MCP	SITE GROUND ELECTRODE SYSTEM	1	1"	PVC	GROUND	1/C #6 GROUND (SOLID)	

ELECTRICAL NOTES:

1. CONTRACTOR SHALL COORDINATE REPLACING THE EXISTING POLE MOUNTED TRANSFORMERS WITH COMED. THE EXISTING 120/240V, 3-PHASE OPEN DELTA ELECTRIC SERVICE SHALL BE REPLACED WITH A 120/240V, 3-PHASE CLOSED DELTA ELECTRIC SERVICE.
2. SERVICE CONDUIT SHALL HAVE A MINIMUM 36" COVER AND SHALL BE DIRECTIONALLY DRILLED FOR STRAIGHT RUNS.
3. PROVIDE A DUPLEX RECEPTACLE WITHIN THE VALVE VAULT. EACH RECEPTACLE SHALL BE ON A SEPARATE CIRCUIT. RECEPTACLES SHALL BE MOUNTED IN A BOX WITH A GASKETED, WEATHERPROOF, CAST METAL COVER, RATED FOR IN-USE. MOUNTING SHALL BE WITHIN CORD DISTANCE OF SUMP PUMP.
4. PROVIDE MASTER VALVE VAULT JUNCTION BOX. JUNCTION BOX SHALL BE 316 STAINLESS STEEL WATERTIGHT, 16" X 16" X 8", N.E.M.A. 4X.
5. CONDUIT ENTRIES INTO JUNCTION BOX SHALL BE FILLED WITH DUCT PUTTY.
6. SEAL TIGHT FITTINGS, RATED FOR CLASS I, DIV. 2 LOCATIONS SHALL BE INSTALLED ON CONDUITS FROM WET WELL PRIOR TO ENTERING ENCLOSURES.
7. CABLE SHALL BE XLP-TYPE USE.
8. LIGHT POLE SHALL BE BRACED DURING CONSTRUCTION.

GAS PIPING NOTES

1. ALL NATURAL GAS FUEL PIPING REQUIRED FOR THE INSTALLATION OF THE WORK SHALL BE IN ACCORDANCE WITH APPLICABLE PROVISIONS OF NFPA 58.
2. ALL PIPING, TUBING, FITTING AND VALVES USED IN THE PIPING INSTALLATION SHALL BE SUITABLE FOR 125 PSIG WORKING PRESSURE,
3. GAS PIPING SHALL BE STEEL, ALL ABOVE GRADE PIPING/FITTINGS/VALVES SHALL BE PRIMED & PAINTED GREY USING A RUST RESISTANT INDUSTRIAL GRADE ACRYLIC PAINT OR AS DIRECTED BY ENGINEER.
4. FLEXIBLE CONNECTORS SHALL BE USED TO ISOLATE HARMFUL VIBRATIONS FROM THE PIPING INSTALLATION.
5. THE PIPING INSTALLATION SHALL BE TESTED AFTER ASSEMBLY AND PROVEN FREE FROM LEAKS, FLAME TESTING FOR LEAKS IS NOT PERMITTED.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL COORDINATION, MATERIAL & INSTALLATION OF ALL EQUIPMENT REQUIRED TO CONNECT TO THE PROPOSED GENERATOR TO THE GAS MAIN INCLUDING ASSOCIATED METERING DEVICES, ADDITIONAL REGULATORS, FITTINGS, PIPING, ETC.
7. CONTRACTOR SHALL COORDINATE REMOVAL AND REPLACEMENT OF EXISTING GAS METER WITH NICOR. SEE PROJECT CONTACT LIST FOR REPRESENTATIVE'S INFORMATION.



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VILLAGE OF ARLINGTON HEIGHTS

REGENCY COURT LIFT STATION RECONSTRUCTION
ELECTRICAL SITE PLAN AND SCHEDULE

SCALE: 1" = 10' | SHEET 1 OF 1 SHEETS | STA. - TO STA. -

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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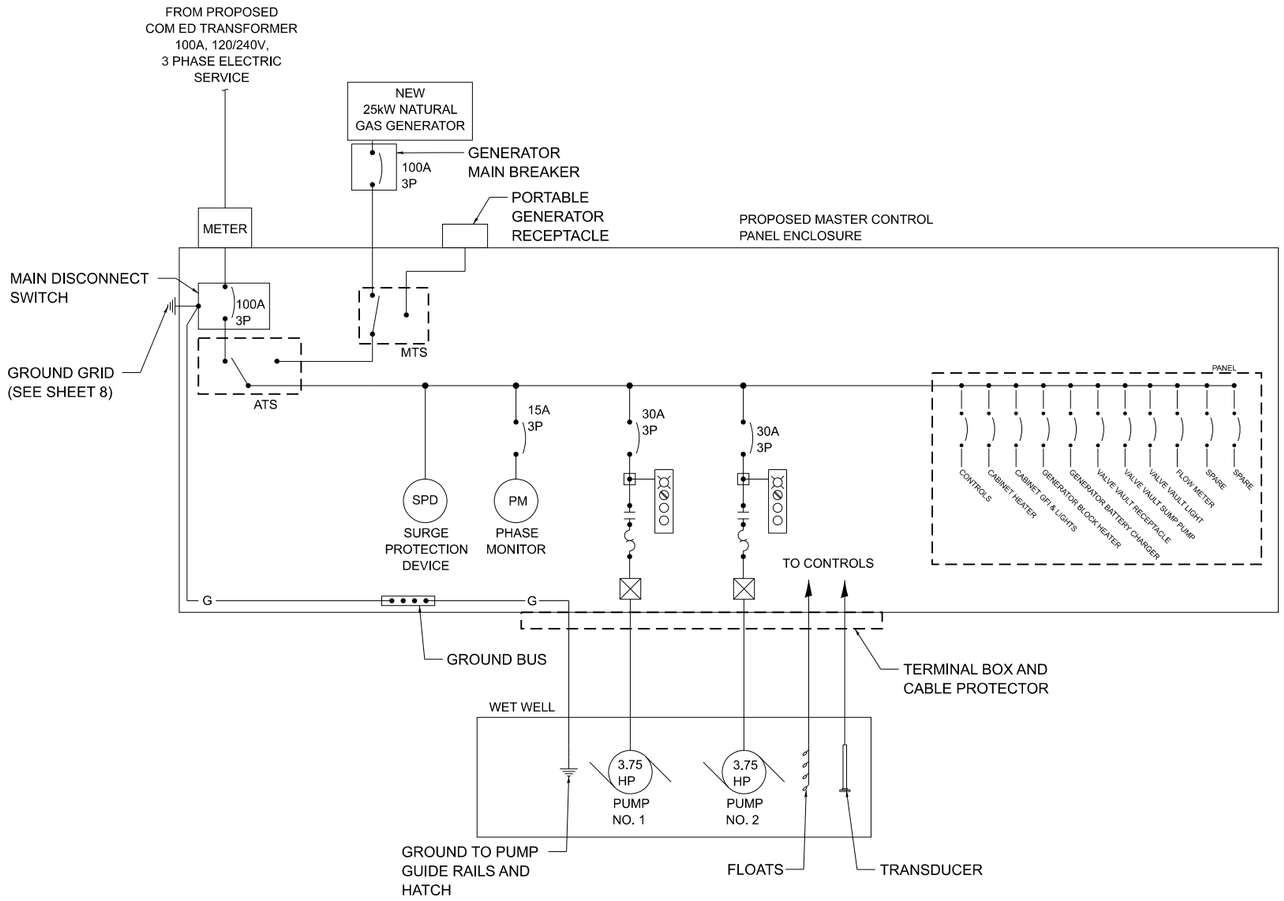
		CONTRACT NO. 22034.01		
		ILLINOIS	FED. AID PROJECT	



ONE-LINE DIAGRAM
NO SCALE

SEQUENCE OF ELECTRICAL WORK

THE FOLLOWING IS THE RECOMMENDED SEQUENCE OF WORK FOR THE ELECTRICAL IMPROVEMENTS TO MINIMIZE BY-PASS PUMPING REQUIREMENTS.

1. INSTALL NEW UTILITY METER, MAIN DISCONNECT, CONTROL PANEL, ELECTRIC SERVICE CONDUIT/CABLE (BETWEEN CONTROL PANEL AND UTILITY POLE), AND CONDUIT/CABLE BETWEEN MAIN DISCONNECT AND ATS. THE NEW ELECTRIC SERVICE CABLES SHALL NOT BE CONNECTED TO ATS UNTIL COM ED IS ONSITE TO INSTALL NEW POLE MOUNTED TRANSFORMERS.
2. THE CONTRACTOR SHALL SCHEDULE AN ELECTRICAL INSPECTION WITH THE VILLAGE AND COORDINATE NEW ELECTRIC SERVICE CONNECTION WITH COM ED.
3. THE CONTRACTOR SHALL COORDINATE TEMPORARY STATION SHUT-DOWN AND/OR BY-PASS PUMPING WHILE COM ED INSTALLS NEW TRANSFORMER(S) AND CONNECTS THE NEW ELECTRIC SERVICE. BY-PASS PUMPING SHALL BE ACTIVE WITHIN 1-HOUR (SEE SPECIFICATION 01 51 00, SECTION 1.02A).
4. PRIOR TO ENERGIZING THE NEW ELECTRIC SERVICE A TEMPORARY CONNECTION BETWEEN THE ATS AND MAIN DISTRIBUTION PANEL SHALL BE INSTALLED TO ALLOW THE STATION TO OPERATE WHILE THE UTILITY CIRCUIT BREAKER IS REMOVED.
5. ALL ELECTRICAL EQUIPMENT SHALL BE ONSITE PRIOR TO PERFORMING ANY WORK. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE OWNER AND ENGINEER.

NOTES

1. ALL ELECTRICAL EQUIPMENT, CABLE AND CONDUITS ARE PROPOSED.
2. CONTRACTOR TO COORDINATE WITH COMED PRIOR TO ANY WORK ON EXISTING ELECTRICAL SERVICE.
3. ALL ELECTRICAL COMPONENTS SHALL BE NEMA 4X RATED OUTSIDE.
4. ALL CONDUIT PENETRATIONS IN STRUCTURES SHALL BE SEALED COMPLETELY.
5. INSTALLATION OF ELECTRICAL SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS OF THE ADOPTED EDITIONS OF THE NATIONAL ELECTRICAL CODE, NATIONAL ELECTRICAL SAFETY CODE, OCCUPATIONAL SAFETY AND HEALTH ACT, AND LOCAL CODES.
6. EQUIPMENT SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE.
7. EACH CONDUIT RUN SHALL BE GROUNDED TO THE COMMON GROUNDING BUS IN THE PANEL WHERE IT ORIGINATES. THE MINIMUM SIZE OF THE GROUNDING CONDUCTOR SHALL BE SIZED PER NEC SECTION 250.122 OR AS OTHERWISE SHOWN ON THE DRAWINGS.
8. AN EQUIPMENT GROUND CONDUCTOR SHALL BE ROUTED WITH THE CIRCUIT CONDUCTORS INSTALLED IN A CONDUIT AS SHOWN ON THE CONDUIT AND CABLE PLAN.
9. BOTH PUMPS MAY NOT BE OPERATING AT THE SAME TIME. MWRD PERSONNEL SHALL HAVE UNRESTRICTED ACCESS TO THE LIFT STATION FOR RANDOM UNANNOUNCED INSPECTION AND TESTING.
10. ONE-LINE DIAGRAM IS SHOWN CONNECTED TO UTILITY POWER.

ELECTRICAL SYMBOL LIST

SYMBOL	DESCRIPTION
PB	PUSH BUTTON
V/D	VARIABLE FREQUENCY DRIVE
	MOTOR STARTER
	TRANSFORMER (POWER)
A	INDICATING LIGHT (WITH COLOR INDICATED, A-AMBER G-GREEN, R-RED)
	MOLDED CASE CIRCUIT BREAKER
	THERMAL MAGNETIC OVERLOAD DEVICE
HP	MOTOR WITH HP INDICATED
	GROUND
	NORMALLY OPEN CONTACTOR
	NORMALLY CLOSED CONTACTOR
	FUSED DISCONNECT SWITCH
	FUSE
	DISCONNECT SWITCH
	MECHANICAL INTERLOCK
	PHASE MONITORING
HRS	ELAPSED TIME METER
	PUMP CONTROL AND HOA SWITCH
M	METER
	SURGE PROTECTION DEVICE
Ø OR PH	PHASE
	FLOATS
	SUBMERSIBLE TRANSDUCER
TB	CURRENT TRANSFORMER, CT (RATING SHOWN ON PLANS) TB- TEST BLOCK
	CIRCUIT BREAKER WITH THERMAL MAGNETIC PROTECTION
	MOTOR PROTECTIVE SWITCH WITH THERMAL OVERLOAD

PLAN — SURVEYED — BY — DATE; DRAWN — BY — DATE; ALIGNMENT CHECKED — BY — DATE; RT. OF WAY CHECKED — BY — DATE; CLASS I ALE MARK — BY — DATE; NOTE BOOK NO. ____

PROFILE — SURVEYED — BY — DATE; DRAWN — BY — DATE; GRADES CHECKED — BY — DATE; S.I.A. NOTED — BY — DATE; STRUCTURE NOTATIONS CHKD — BY — DATE; NOTE BOOK NO. ____

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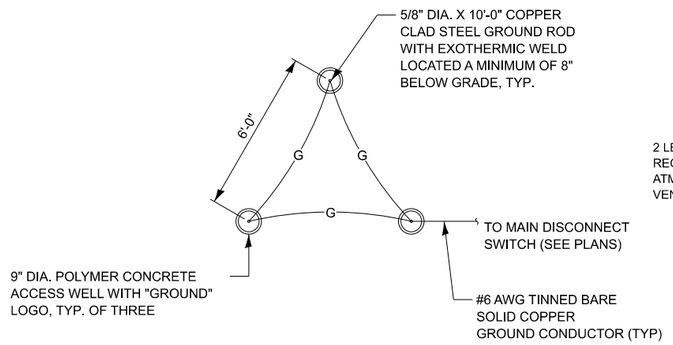
VILLAGE OF ARLINGTON HEIGHTS

REGENCY COURT LIFT STATION RECONSTRUCTION
ONE LINE DIAGRAM

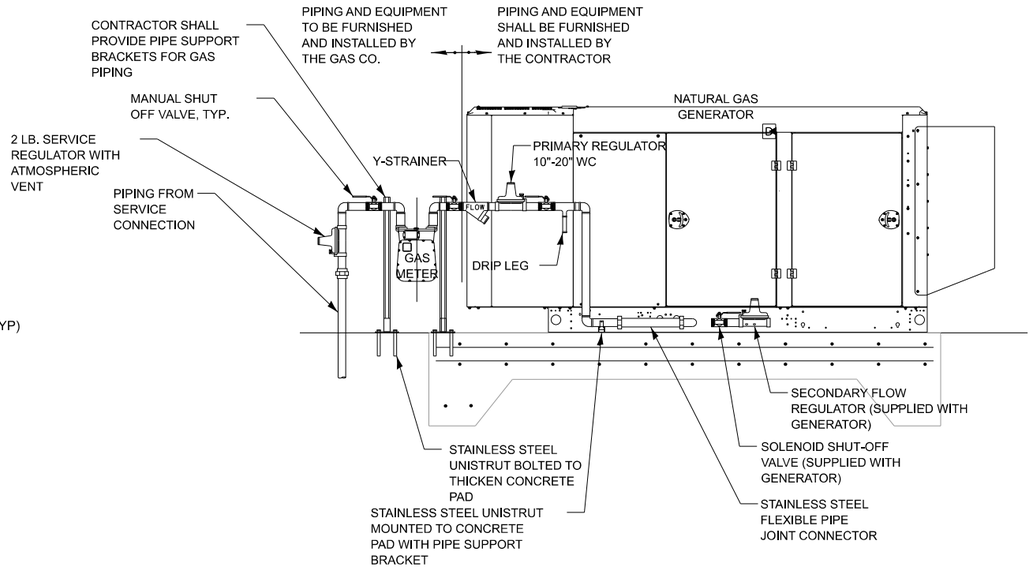
SCALE: NTS | SHEET 1 OF 1 SHEETS | STA. - | TO STA. -

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	14	7
		CONTRACT NO. 22034.01		
	ILLINOIS FED. AID PROJECT			



GROUND GRID DETAIL

N.T.S.



NATURAL GAS FUEL PIPING DETAIL

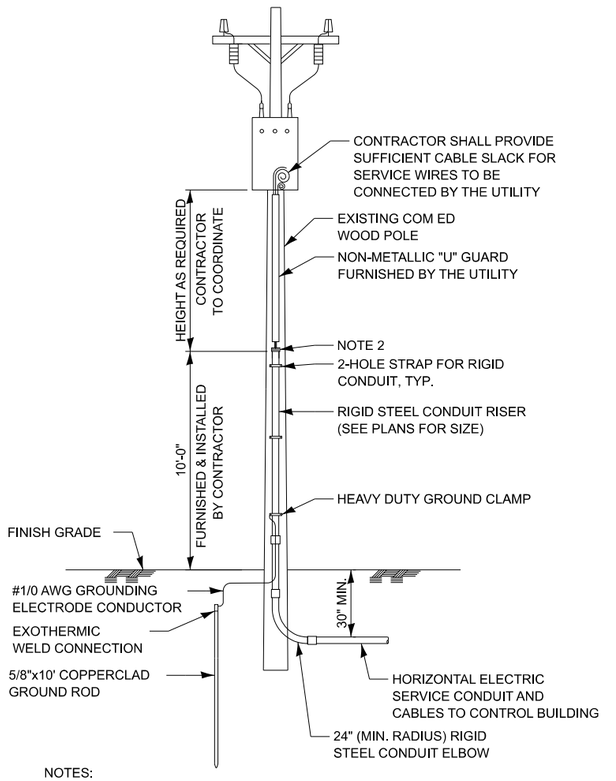
N.T.S.

GENERATOR AND ENCLOSURE NOTES

1. NATURAL GAS ENGINE GENERATOR(S) SHALL BE FULLY WINTERIZED, PROVIDED WITH ALL ACCESSORIES REQUIRED FOR COLD WEATHER STARTING, RATED AS SHOWN FOR CONTINUOUS STAND-BY DUTY WHILE OPERATING AT AN AMBIENT TEMPERATURE RANGE BETWEEN -20 DEG. F AND 104 DEG. F. SEE SPECIFICATIONS FOR ADDITIONAL DETAILS.
2. CONTRACTOR SHALL INSTALL CLOSURE PLATES ALL AROUND UNIT FRAME/BASE TO PREVENT RODENT ENTRY.
3. DIMENSIONS SHOWN ARE MAXIMUM ANTICIPATED FOR STAND-BY GENERATOR UNIT ENCLOSURE AND RELATED EQUIPMENT PAD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CHANGES TO THE SIZE OF THE EQUIPMENT PAD AND ALL COORDINATION IF A DIFFERENT MANUFACTURER IS INSTALLED. ALL PROPOSED DIMENSIONS SHALL BE SUBMITTED FOR REVIEW PRIOR TO CONSTRUCTION.

GAS PIPING NOTES

1. ALL NATURAL GAS FUEL PIPING REQUIRED FOR THE INSTALLATION OF THE WORK SHALL BE IN ACCORDANCE WITH APPLICABLE PROVISIONS OF NFPA 58.
2. ALL PIPING, TUBING, FITTING AND VALVES USED IN THE PIPING INSTALLATION SHALL BE SUITABLE FOR 125 PSIG WORKING PRESSURE.
3. GAS PIPING SHALL BE STEEL. ALL ABOVE GRADE PIPING/FITTINGS/VALVES SHALL BE PRIMED & PAINTED GREY USING A RUST RESISTANT INDUSTRIAL GRADE ACRYLIC PAINT OR AS DIRECTED BY ENGINEER.
4. FLEXIBLE CONNECTORS SHALL BE USED TO ISOLATE HARMFUL VIBRATIONS FROM THE PIPING INSTALLATION.
5. THE PIPING INSTALLATION SHALL BE TESTED AFTER ASSEMBLY AND PROVEN FREE FROM LEAKS. FLAME TESTING FOR LEAKS IS NOT PERMITTED.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL COORDINATION, MATERIAL & INSTALLATION OF ALL EQUIPMENT REQUIRED TO CONNECT TO THE PROPOSED GENERATOR TO THE GAS MAIN INCLUDING ASSOCIATED METERING DEVICES, ADDITIONAL REGULATORS, FITTINGS, PIPING, ETC.

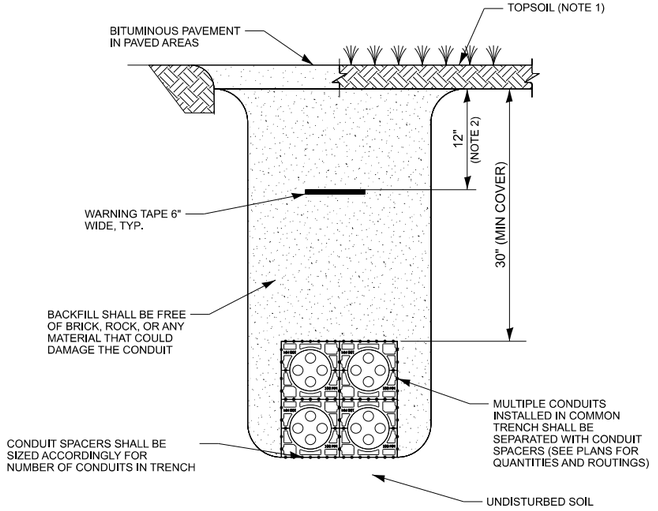


NOTES:

1. ALL WORK SHALL CONFORM TO COM ED'S BOOK OF "INFORMATION AND REQUIREMENTS FOR THE SUPPLY OF ELECTRIC SERVICE."
2. CONTRACTOR SHALL PROVIDE STAINLESS STEEL SEALING BUSHING, WITH LOCKING COLLAR, AT THE TOP OF THE RISER.
3. ALL MATERIAL ABOVE (EXCEPT FOR POLE) SHALL BE INCLUDED IN THE PRICE BID FOR "ELECTRIC SERVICE AND DISTRIBUTION."

OVERHEAD ELECTRIC SERVICE INSTALLATION DETAIL

N.T.S.

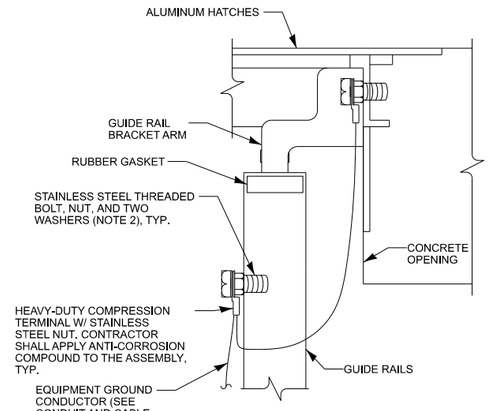


NOTES:

1. TOPSOIL IN LANDSCAPE AREA AND CONCRETE WHERE INSTALLED UNDER PROPOSED CONCRETE BOARDWALK.
2. COMPACTED GRANULAR STRUCTURAL BACKFILL (IDOT CA-6) IN PAVED AREAS, CLEAN, NATIVE OR BORROW BACKFILL COMPACTED W/ PNEUMATIC HAND TAMPER IN GRASS AREAS.
3. CONTRACTOR SHALL BE ALLOWED TO USE HOT-DIPPED GALVANIZED STEEL UNISTRUT TO SUPPORT CONDUITS IN LIEU OF SPACERS.

TYPICAL WIRING IN TRENCH DETAIL

N.T.S.



NOTES:

1. EQUIPMENT GROUNDING CONDUCTOR SHALL NOT BE CUT.
2. BOLT SHALL BE LOCATED SO THAT IT DOES NOT OBSTRUCT PUMP REMOVAL.

BONDING HATCHES AND PUMP GUIDE RAILS

N.T.S.

PLAN / PROFILE — SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CLASS I ALL SHARE — NOTE BOOK NO. — BY — DATE

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CiorbaGroup 8725 W. Higgins Rd, Ste 600, Chicago, IL 60631 P 773.775.4009 | www.ciorba.com	USER NAME =	DESIGNED - LAM	REVISED -
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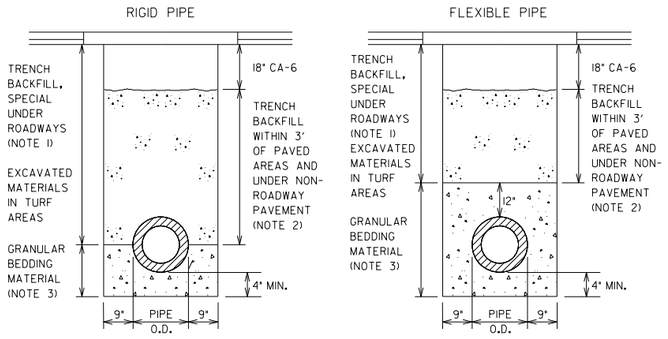
VILLAGE OF ARLINGTON HEIGHTS

REGENCY COURT LIFT STATION RECONSTRUCTION
ELECTRICAL DETAILS

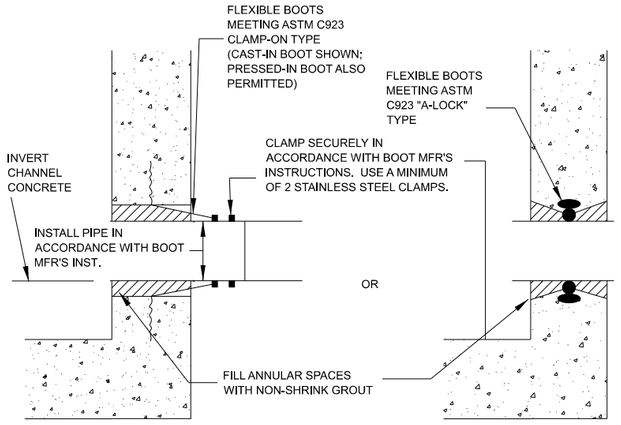
SCALE: NTS | SHEET 1 OF 1 SHEETS | STA. - | TO STA. -

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	14	8
		CONTRACT NO. 22034.01		
		ILLINOIS	FED. AID PROJECT	

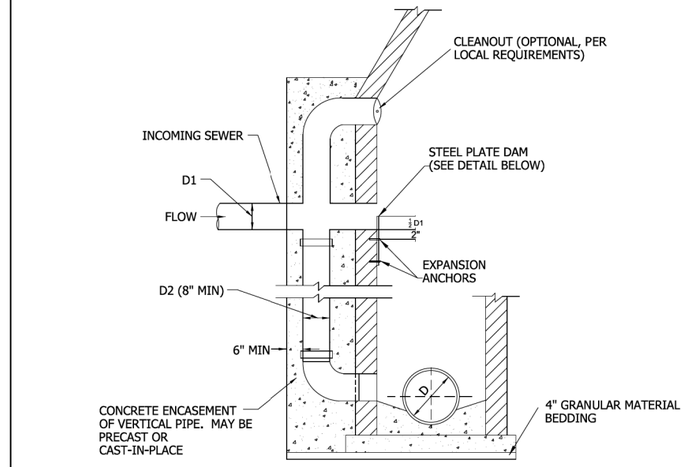
TRENCH DETAILS



NOTES:
1. TRENCH BACKFILL, SPECIAL SHALL BE CA-6 CRUSHED STONE OR CRUSHED GRAVEL COMPLYING WITH SECTION 1004 OF THE SSRB AND SHALL BE PLACED UNDER ALL ROADWAYS. TRENCH BACKFILL, SPECIAL SHALL BE COMPACTED BY METHOD I ONLY.
2. TRENCH BACKFILL SHALL BE FA-6 SAND OR LIMESTONE SCREENINGS COMPLYING WITH SECTION 1003 OF THE SSRB AND SHALL BE PLACED UNDER NON-ROADWAY PAVEMENT AND WITHIN 3 FEET OF ANY PAVEMENT. THE TOP 18" SHALL BE CA-6 CRUSHED STONE OR CRUSHED GRAVEL WHEN UNDER NON-ROADWAY PAVEMENT.
3. BEDDING MATERIAL SHALL BE CA-11 OR CA-13 AGGREGATE COMPLYING WITH SECTION 1004 OF THE SSRB

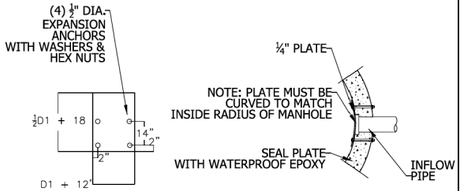


MANHOLE CONNECTION DETAIL



NOTES:
1. REQUIRED FOR 2FT. OR GREATER DROP TO SANITARY OR COMBINED SEWER.
2. MINIMUM WALL THICKNESS IS 6" FOR CAST IN PLACE CONCRETE STRUCTURES AND 1/12 MANHOLE DIAMETER FOR PRECAST CONCRETE STRUCTURES.
3. CONCRETE FOR ENCASEMENT SHALL BE 4,000 PSI @ 28 DAYS.
4. FORCEMAIN FLOW NOT ALLOWED AS INCOMING SEWER, SEE FORCEMAIN DISCHARGE DETAIL.

DIAMETER (INCHES)	
D1	D2
6	8
8	8
10	8
12	8
15	10
18	12
21	15
24	18

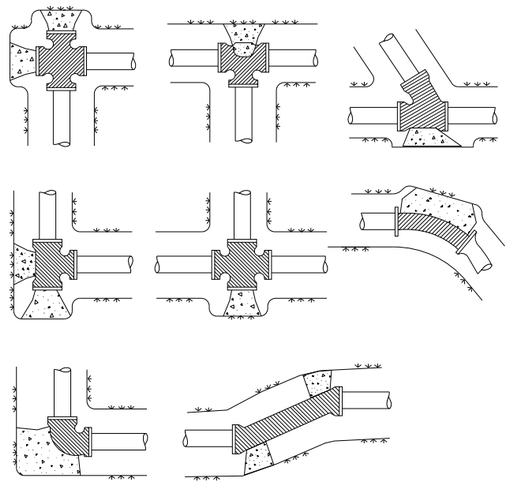


STEEL PLATE DAM

NOTES:
1. PLATE AND FASTENERS MUST BE FABRICATED IN STAINLESS STEEL, DUCTILE IRON, OR EQUIVALENT WATERPROOF/WEATHER PROOF MATERIALS.
2. BOLTS TACK WELDED TO PLATE.
3. ANCHOR EMBEDMENT: 3" MIN.

NOT TO SCALE

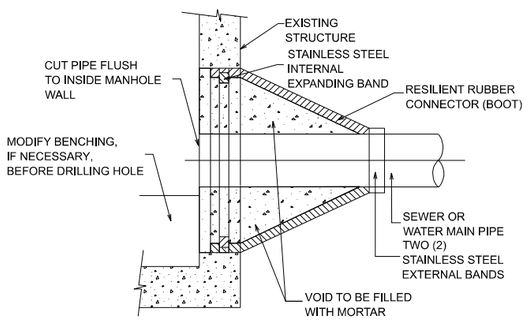
	TECHNICAL GUIDANCE MANUAL	7/1/15
	TYPICAL DROP MANHOLE CONNECTION	STD. DWG. NO.33
		PAGE NO. 34



NOTE:
1. ALL BENDS OF 10° AND LARGER SHALL BE BLOCKED WITH AT LEAST 10" THICK POURED IN PLACE CONCRETE BLOCKS AGAINST UNDISTURBED VERTICAL EARTH FACE.
2. ALL CONCRETE TO BE MIN. 3,000 PSI.
3. IN ADDITION TO THE ABOVE THRUST BLOCKING: ALL MECHANICAL JOINTS, (BENDS OVER 10, TEES, CROSSES, VALVES AND FIRE HYDRANTS) SHALL HAVE A "MEGALUG" RESTRAINT, OR AS APPROVED BY VILLAGE ENGINEERING. BOLTS SHALL BE "COR-TEN".

THRUST BLOCK DETAIL

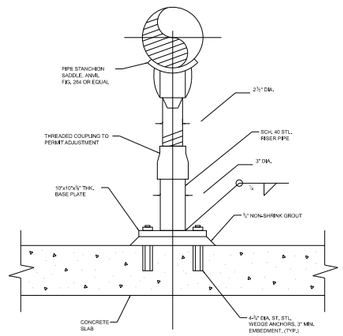
NOT TO SCALE



NOTES: SECTION

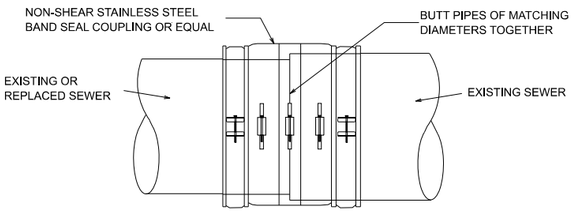
1. RESILIENT RUBBER CONNECTOR COMPLYING WITH ASTM STANDARD C-923 (MOST RECENT EDITION) SHALL BE USED.
2. CORE-DRILL CIRCULAR OPENING IN STRUCTURE WALL OF DIAMETER NECESSARY TO FIT THE REQUIRED BOOT SIZE.
3. KOR-N SEAL FLEXIBLE RUBBER BOOT (MANUFACTURED BY NATIONAL POLLUTION CONTROL SYSTEMS, INC.) MAY BE USED IF APPROVED BY VILLAGE ENGINEERING DEPARTMENT.
4. CUT, SHAPE AND SLOPE NEW INVERT CHANNEL IN THE EXISTING CONCRETE BENCH FOR SMOOTH FLOW FROM NEW CONNECTION.
5. CLEAN EXISTING STRUCTURE AND SEWER PIPE OF ANY DIRT, CONCRETE OR DEBRIS WHICH MAY ACCUMULATE DURING THE CONSTRUCTION PROCESS.

PIPE CONNECTION TO STRUCTURE DETAIL



NOTE:
1. PIPE SUPPORT SHALL BE HOT DIPPED GALVANIZED.

PIPE SUPPORT DETAIL



PIPE COUPLING DETAIL

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USER NAME =	DESIGNED - LAM	REVISED -	
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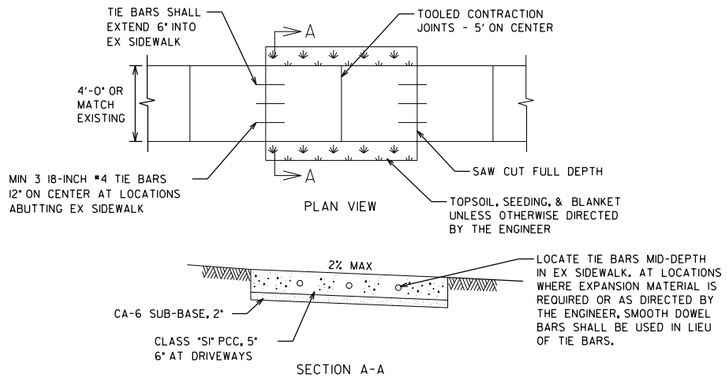
VILLAGE OF ARLINGTON HEIGHTS

REGENCY COURT LIFT STATION RECONSTRUCTION
MISCELLANEOUS DETAILS

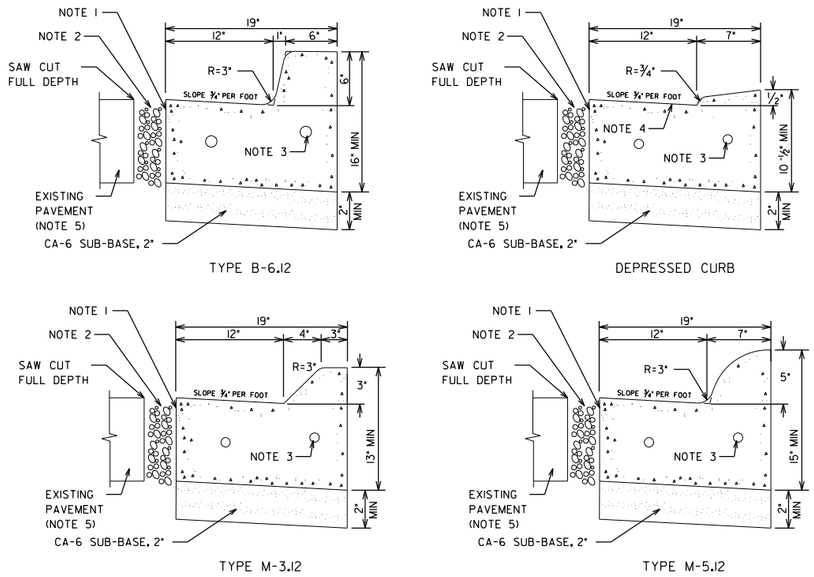
SCALE: NTS | SHEET 1 OF 3 SHEETS | STA. - | TO STA. -

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	14	9
		CONTRACT NO. 22034.01		
		ILLINOIS	FED. AID PROJECT	

PCC SIDEWALK



PCC CURB & GUTTER



NOTE 1 - THE MINIMUM THICKNESS OF CONCRETE AT THE FACE OF THE GUTTER SHALL BE 10"

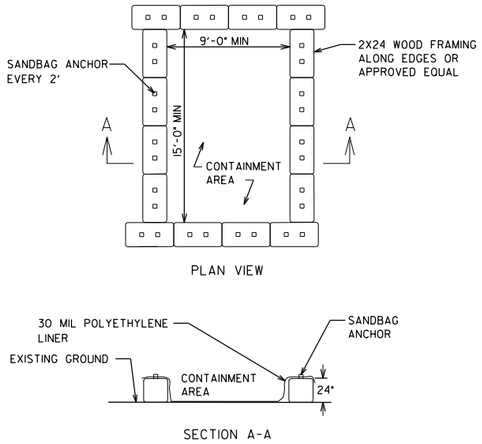
NOTE 2 - FOR ALL LOCATIONS WHERE THE EXISTING PAVEMENT IS FULL-DEPTH AND FINAL AS DIRECTED BY THE ENGINEER, THE GAP SHALL BE BACKFILLED WITH PCC BASE COURSE TO A DEPTH OF 8 INCHES AND TEMPORARY STONE FROM THE TOP OF THE PCC BASE COURSE TO THE PAVEMENT SURFACE. FOR ALL LOCATIONS WHERE THE EXISTING PAVEMENT REQUIRES A FULL-DEPTH PATCH OR OTHERWISE IS NOT FINAL AS DIRECTED BY THE ENGINEER, THE ENTIRE GAP SHALL BE BACKFILLED WITH TEMPORARY STONE.

NOTE 3 - TIE BARS OR SMOOTH DOWEL BARS SHALL BE PROVIDED AT VERTICAL FACES OF EXISTING CURB & GUTTER

NOTE 4 - FOR DEPRESSED CURB LOCATED THROUGH SIDEWALK CROSSINGS, GUTTER SLOPE SHALL BE A MAXIMUM OF 5%

NOTE 5 - WHERE EXISTING PAVEMENT IS CONCRETE, NEW CURB SHALL BE POURED WITH DOWEL BARS WITH EPOXY COATED TIE BARS 24" LONG AT 24" CENTERS.

CONCRETE WASHOUT AREA

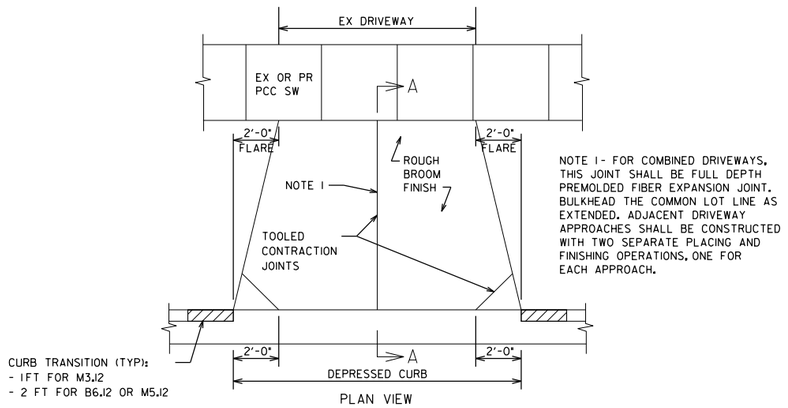


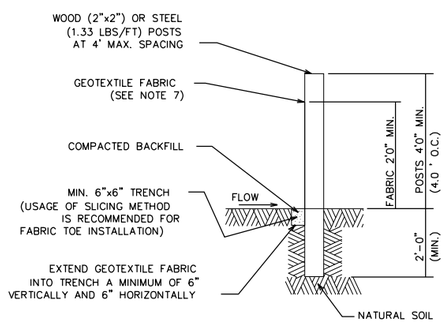
NOTES:

MAINTAINING WASHOUT FACILITY SHALL INCLUDE REMOVING AND DISPOSING OF HARDENED CONCRETE AND SLURRY AND RETURNING THE FACILITY TO A FUNCTIONAL CONDITION

WASHOUT FACILITY SHALL BE CLEANED OR RECONSTRUCTED IN A NEW AREA ONCE WASHOUT BECOMES TWO-THIRDS FULL

PCC DRIVEWAY, RESIDENTIAL



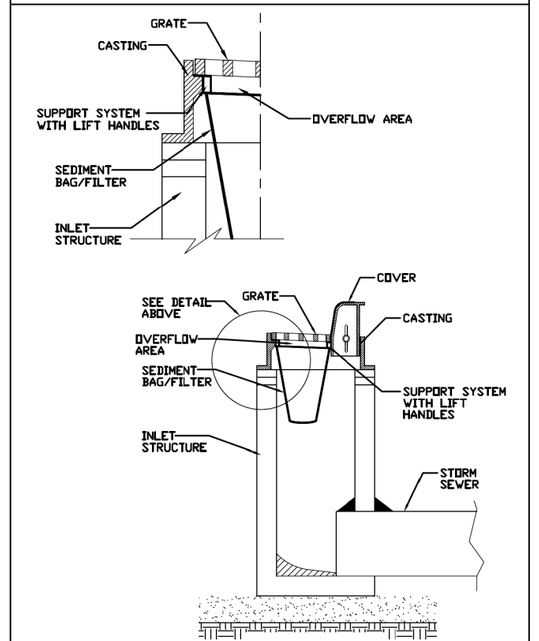


NOTES:

1. SILT FENCE SHALL BE PLACED AT LOCATIONS SHOWN ON THE PLANS AND WHERE INDICATED BY VILLAGE ENGINEERING.
2. ATTACH GEOTEXTILE FABRIC TO WIRE MESH WITH HOG RINGS, TO WOOD POSTS WITH NAILS, AND TO STEEL POSTS WITH TIE-WIRES AT TOP AND MID-SECTION.
3. OVERLAP GEOTEXTILE FABRIC BY 6" AND FOLD WHERE 2 SECTIONS ADJOIN.
4. INSPECTION OF SILT FENCES SHALL BE AT LEAST ONCE PER WEEK AND AFTER RAIN EVENTS IN EXCESS OF HALF INCH (½") PER DAY OR EQUAL SNOW MELT. REPAIR OR REPLACEMENT OF SILT FENCE SHALL BE MADE PROMPTLY AS NEEDED.
5. SEDIMENT TRAPPED BY THE SILT FENCE SHALL BE REMOVED (AND PROMPTLY DISPOSED OF) WHENEVER SEDIMENT ACCUMULATION DEPTH AT THE SILT FENCE IS APPROXIMATELY EQUAL TO TWELVE (12) INCHES (ONE-HALF OF SILT FENCE HEIGHT).
6. MATERIAL (GEOTEXTILE & POST) INSTALLATION, MAINTENANCE, AND SILT FENCE REMOVAL SHALL COMPLY WITH AASHTO, M 288 REQUIREMENTS.
7. THE FABRIC FOR SILT FENCE SHALL BE A WOVEN FABRIC MEETING THE REQUIREMENTS OF AASHTO M 288 (TABLE 7) FOR UNSUPPORTED SILT FENCE WITH LESS THAN 50 PERCENT GEOTEXTILE ELONGATION.
8. SILT FENCE SHALL BE MAINTAINED IN PLACE UNTIL COMPLETION OF CONSTRUCTION AND THE UPSLOPE AREA HAS BEEN STABILIZED, AND SHALL BE REMOVED ONLY WHEN DIRECTED BY VILLAGE ENGINEERING.

SILT FENCE DETAIL

INLET PROTECTION - PAVED AREAS
DROP-IN PROTECTION



REFERENCE
Project
Designed Date
Checked Date
Approved Date

STANDARD DWG. NO. IUM-561D
SHEET 1 OF 1
DATE 01-11-11

PLAN / PROFILE
SURVEYED BY
DRAWN BY
GRADES CHECKED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CLASS I A/E NAME
NOTE BOOK NO.
BJAL NOTED
STRUCTURE NUMBERS CKD

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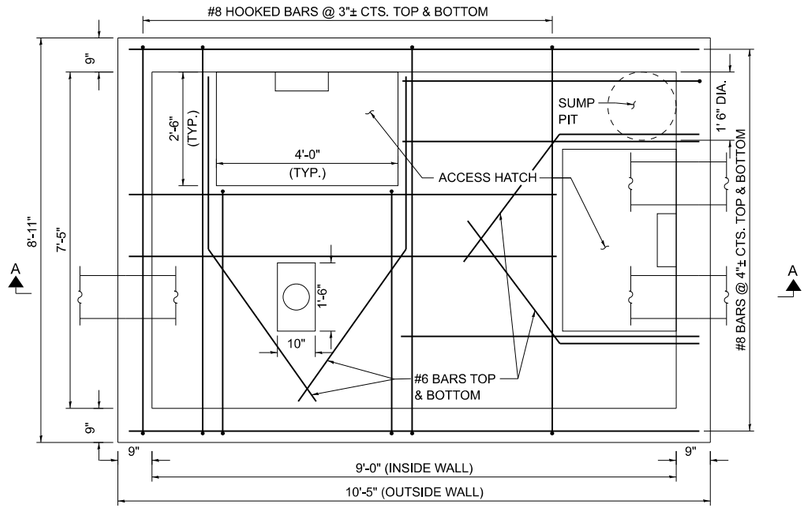
VILLAGE OF ARLINGTON HEIGHTS

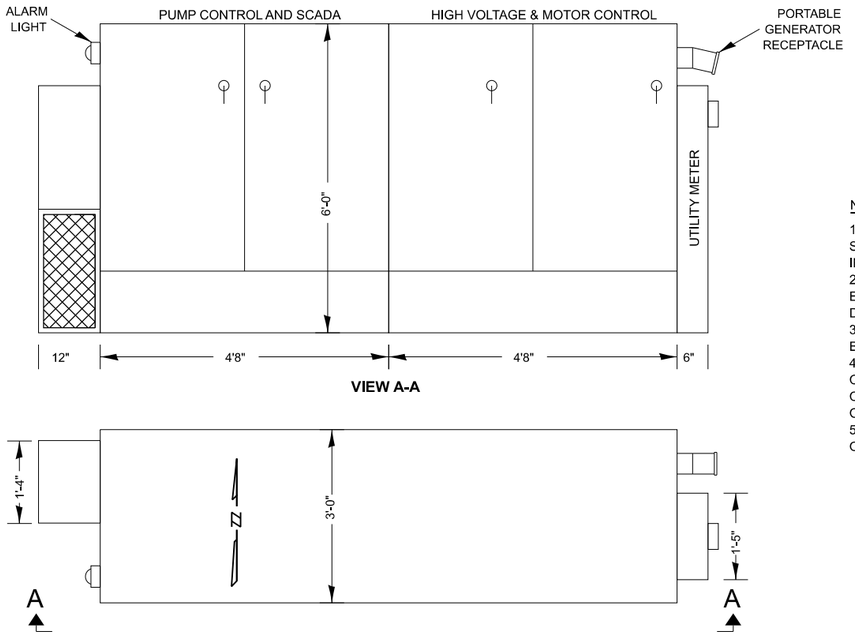
REGENCY COURT LIFT STATION RECONSTRUCTION
MISCELLANEOUS DETAILS

SCALE: NTS | SHEET 2 OF 3 SHEETS | STA. - | TO STA. -

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	14	10
		CONTRACT NO. 22034.01		
		ILLINOIS	FED. AID PROJECT	



VALVE VAULT TOP PLAN

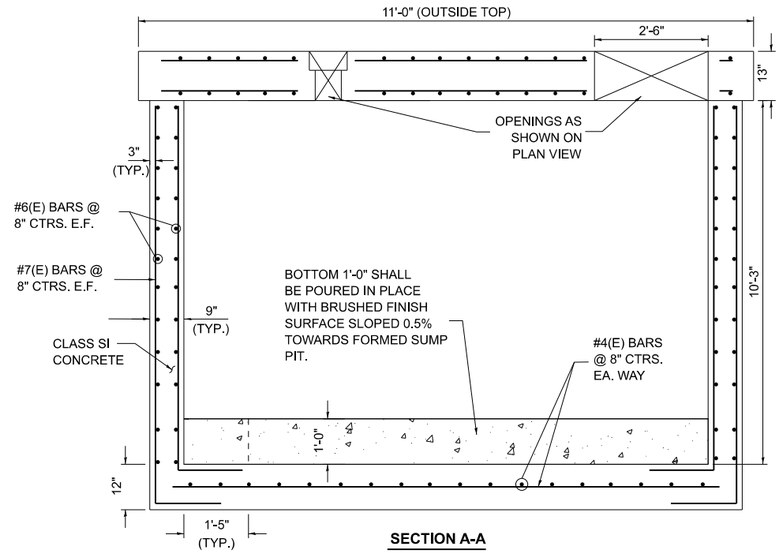


VIEW A-A

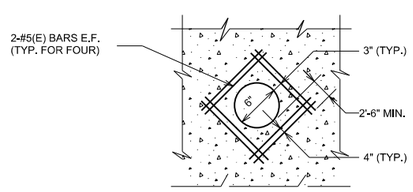
TRAFFIC BOX ENCLOSURE PLAN

NOTES:

1. REFER TO CONDUIT PLAN FOR SCHEDULES AND LOCATION OF INTERFACING CONDUIT.
2. REFER TO TRAFFIC BOX ENCLOSURE PAD DETAIL FOR DIMENSIONS AND DETAIL.
3. ALL CONDUIT INTO BOX SHALL BE BOTTOM FED.
4. TRAFFIC BOX TO BE AS COMPACT AS POSSIBLE. CONTRACTOR SHALL COORDINATE OVERALL SIZE AS REQUIRED.
5. SEE SITE PLAN FOR ORIENTATION.



SECTION A-A



TYPICAL REINFORCEMENT AROUND FORCE MAIN

NOTES:

1. NEW FLAT TOP SLABS SHALL HAVE THE ACCESS FRAME AND HATCH CAST INTO THE TOP AND FRAME SHALL BE FLUSH WITH CONCRETE.

2. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH 0F 4000 PSI AT 28 DAYS UNLESS OTHERWISE NOTED.

3. SURFACES OF POURS AT CONSTRUCTION JOINTS SHALL BE ROUGHENED (CONSTRUCTION JOINT TREATMENT), UNLESS OTHERWISE NOTED.

4. TYPE B WATERSTOPS (WS) SHALL BE USED BETWEEN VAULT BOTTOM SLAB AND SIDE WALLS IF STRUCTURE IS POURED IN PLACE. WATERSTOP SHALL BE A HYDROPHILIC, NON-TOXIC. SYNTHETIC WATERSTOP SIMILAR TO HYDROTITE SS-1818 AS MANUFACTURED BY MULTITURETHANES INC., BUFFALO, NY.

5. REINFORCEMENT BARS SHALL BE DEFORMED BILLET STEEL BARS CONFORMING TO ASTM A615 GRADE 60 WITH FY= 60,000 PSI.

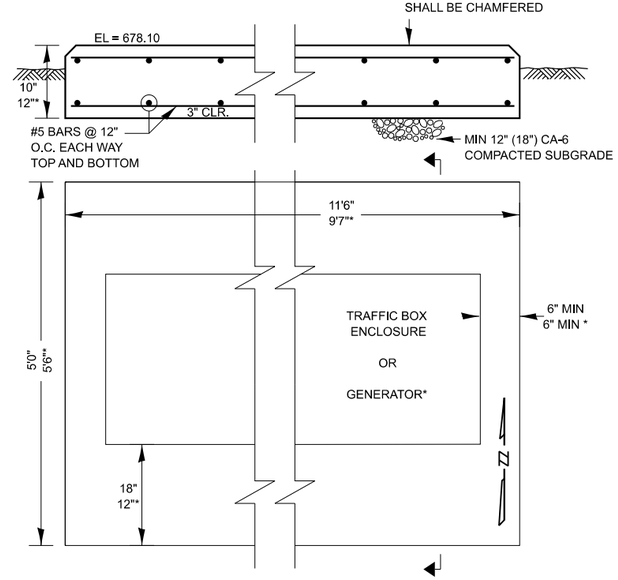
6. REINFORCEMENT SHALL HAVE A MINIMUM CLEAR CONCRETE COVER AS FOLLOWS, UNLESS OTHERWISE NOTED OR SHOWN ON THE DRAWINGS:

BOTTOM OF FOUNDATIONS	3"
BACKFILLED SURFACES	2"
INTERIOR SURFACES	2"

7. BACKFILLING SHALL NOT COMMENCE UNTIL THE CONCRETE REACHES FULL DESIGN STRENGTH AND SHALL PROCEED UNIFORMLY AROUND THE VAULT PERIMETER.

8. CONTRACTOR SHALL EXCAVATE BELOW BOTTOM ELEVATION OF THE STRUCTURE TO CONFIRM AND/OR PROVIDE A MINIMUM ALLOWABLE BEARING PRESSURE OF 3000 PSF.

9. PRECAST ALTERNATIVE SHALL BE ACCEPTABLE CONTINGENT UPON ENGINEERING SUBMITTAL APPROVAL



CAST IN PLACE CONTROL PANEL AND GENERATOR CONCRETE PAD DETAIL

NOTES:

1. FOUNDATION DIMENSIONS AND REINFORCEMENT SHOWN HEREON ARE PRELIMINARY AND REPRESENT MINIMUM CONSTRUCTION REQUIREMENTS.
2. REFER TO TRAFFIC BOX ENCLOSURES PLAN FOR DIMENSIONS AND LAYOUT.
3. DIMENSIONS / NOTES WITH ASTERISK * REFER TO STANDBY GENERATOR PAD. OTHER NOTES / DIMENSIONS REFER TO TRAFFIC BOX ENCLOSURE.

PLAN: DATE, BY, SURVEYED, DRAWN, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CLASS I A/E NAME, NOTE BOOK NO.

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	DRAWN - NFM	REVISED -	
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VILLAGE OF ARLINGTON HEIGHTS

REGENCY COURT LIFT STATION RECONSTRUCTION
MISCELLANEOUS DETAILS

SCALE: NTS | SHEET 3 OF 3 SHEETS | STA. - | TO STA. -

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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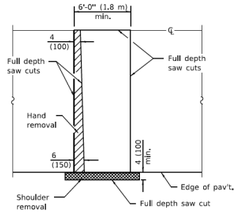
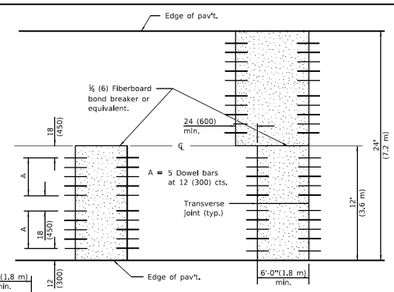
		CONTRACT NO. 22034.01		
	ILLINOIS FED. AID PROJECT			

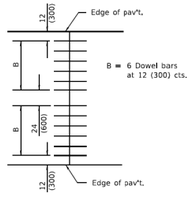


PAVEMENT SAWING DETAIL

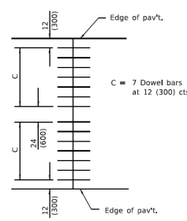
(HMA SHOULDER)



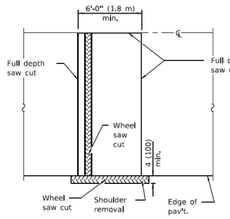
12' (3.6 m) WIDE LANES



14' (4.2 m) WIDE RAMP

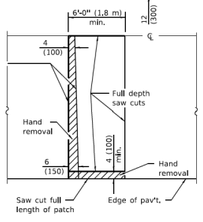


16' (4.8 m) WIDE RAMP



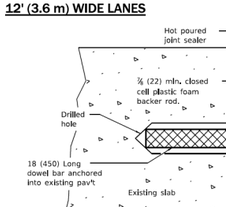
ALTERNATE SAWING DETAIL

(HMA SHOULDER)

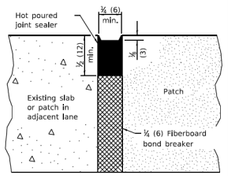


PAVEMENT SAWING DETAIL

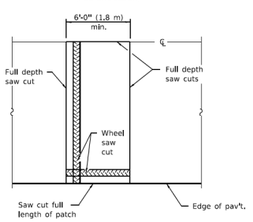
(PCC SHOULDER)



TRANSVERSE JOINT



CENTERLINE JOINT



ALTERNATE SAWING DETAIL

(PCC SHOULDER)

DOWEL BAR TABLE		
PAVEMENT THICKNESS	DOWEL BAR DIAMETER	HOLE DIAMETER
10 (250) or greater	1½ (38)	1⅝ (41)
8 (200) thru 9.99 (249)	1¼ (32)	1⅜ (35)
Less than 8 (200)	1 (25)	1½ (29)

GENERAL NOTES

The transverse joints for Class B patches shall align with joints or cracks in the adjacent lane whenever possible.

See Standard 420701 for details of welded wire reinforcement.

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-19	Revised reference to Standard 420701 in General Notes.
1-1-18	Revised DOWEL BAR TABLE.

Illinois Department of Transportation

PASSED January 1, 2019 — ENGINEER OF POLICY AND PROCEDURES

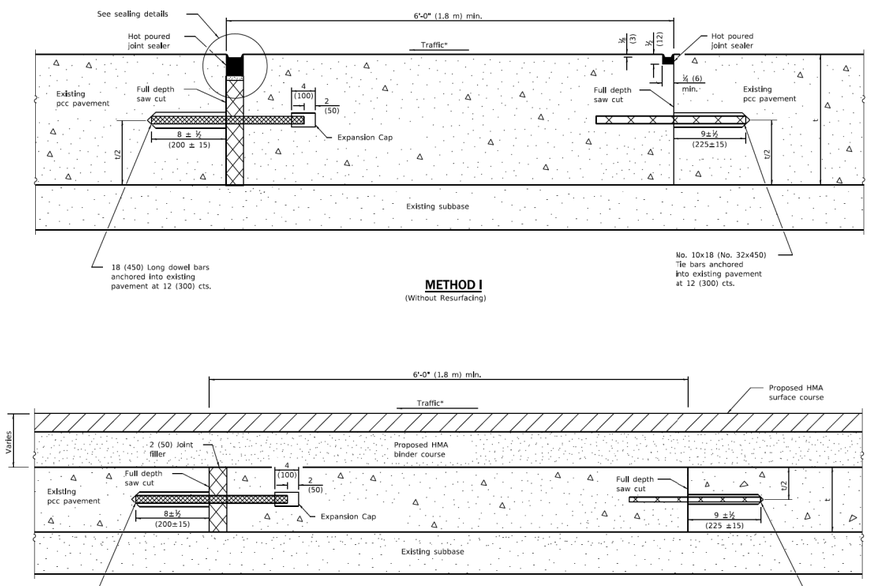
APPROVED January 1, 2019 — ENGINEER OF DESIGN AND ENVIRONMENT

BDE 442 (D-09-18)

CLASS B PATCHES

(Sheet 1 of 2)

STANDARD 442101-09



METHOD I

(Without Resurfacing)

METHOD II

(With Resurfacing)

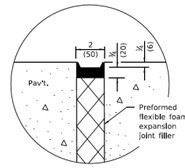
Illinois Department of Transportation

PASSED January 1, 2019 — ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2019 — ENGINEER OF DESIGN AND ENVIRONMENT

BDE 442 (D-09-18)

TRANSVERSE EXPANSION JOINTS



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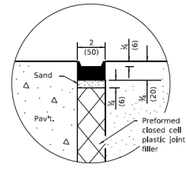

SEALING DETAIL

NOTE

* When re-establishing a transverse expansion joint on a two-lane, two-way road, reverse the orientation of the dowel bars with respect to traffic for one of the patches such that the joint will be continuous across both lanes.

CLASS B PATCHES

(Sheet 2 of 2)

STANDARD 442101-09

PLAN — SURVEYED ____ DRAWN ____ NOTE BOOK ____ NO. ____ — ALIGNMENT CHECKED, RT. OF WAY CHECKED, CLASS I A/E NAME — BY — DATE

PROFILE — SURVEYED ____ DRAWN ____ NOTE BOOK ____ NO. ____ — GRADES CHECKED, B.M. NOTED, STRUCTURE NO/RTNS CHKD — BY — DATE

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VILLAGE OF ARLINGTON HEIGHTS

REGENCY COURT LIFT STATION RECONSTRUCTION
IDOT DETAILS

SCALE: N.T.S. | SHEET 1 OF 3 SHEETS | STA. - | TO STA. -

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	14	12
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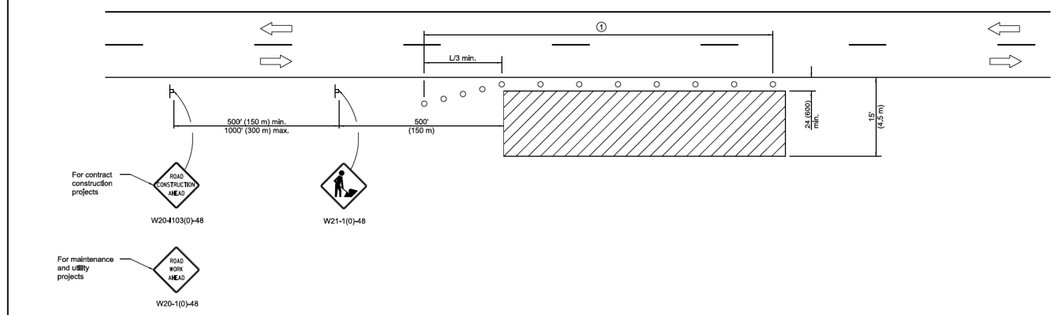
		ILLINOIS FED. AID PROJECT		



TYPICAL APPLICATIONS

Utility operations
Culvert extensions
Slide slope changes
Guardrail Installation and maintenance
Delineator Installation
Landscaping operations
Shoulder repair
Sign Installation and maintenance

① When the work operation exceeds one hour, cones, drums or barricades shall be placed at 25' (8 m) centers for L/3 distance, and at 50' (15 m) centers through the remainder of the work area.

GENERAL NOTES

This Standard is used where any vehicles, equipment, workers or their activities will encroach in the area 15' (4.5 m) to 24 (600) from the edge of pavement.

Calculate L as follows:

SPEED LIMIT	FORMULAS English	(Metric)
40 mph (70 km/h) or less:	$L=\frac{WS^2}{60}$	$L=\frac{WS^2}{150}$
45 mph (80 km/h) or greater:	L=(W)(S)	L=0.65(W)(S)

W = Width of offset in feet (meters).

S = Normal posted speed mph (km/h).

All dimensions are in inches (millimeters) unless otherwise shown.

SYMBOLS

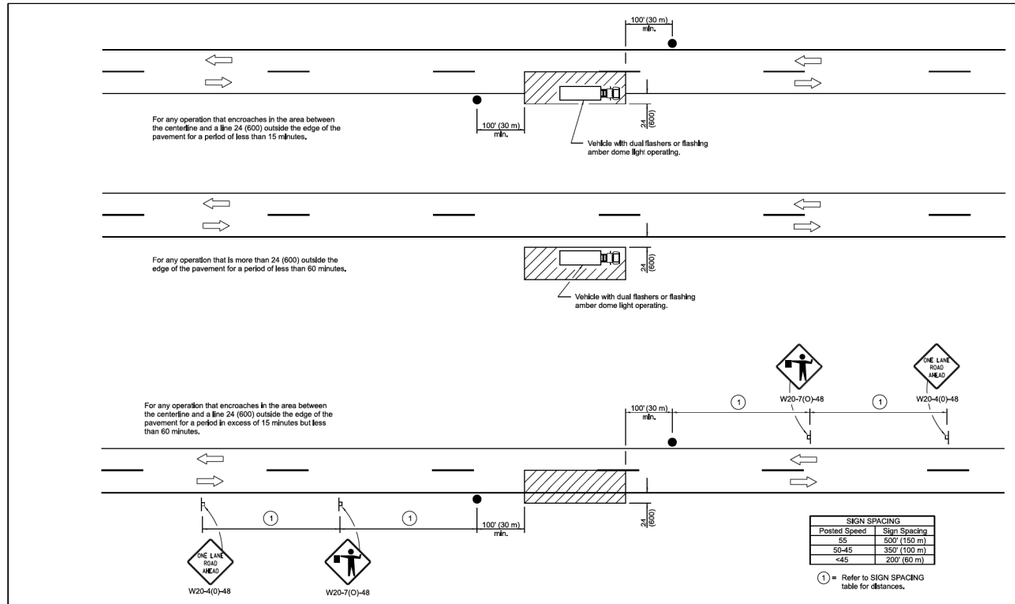
Work area
Sign
Cone, drum or barricade

Illinois Department of Transportation
APPROVED January 1, 2014 — ENGINEER OF SAFETY ENGINEERING
APPROVED January 1, 2014 — ENGINEER OF DESIGN AND ENVIRONMENT
BDE 629 (1 of 2)

DATE	REVISIONS
1-1-14	Revised workers sign number to agree with current MUTCD.
1-1-13	Omitted text 'WORKERS' sign.

OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE

STANDARD 701006-05



SIGN SPACING	
Posted Speed	Sign Spacing
55	500' (150 m)
50-45	350' (100 m)
<45	200' (60 m)

① = Refer to SIGN SPACING table for distances.

TYPICAL APPLICATIONS

Marking patches
Field survey
Striping line
Utility operations
Cleaning up debris on pavement

SYMBOLS

Work area
Sign on portable or permanent support
Flagger with traffic control sign

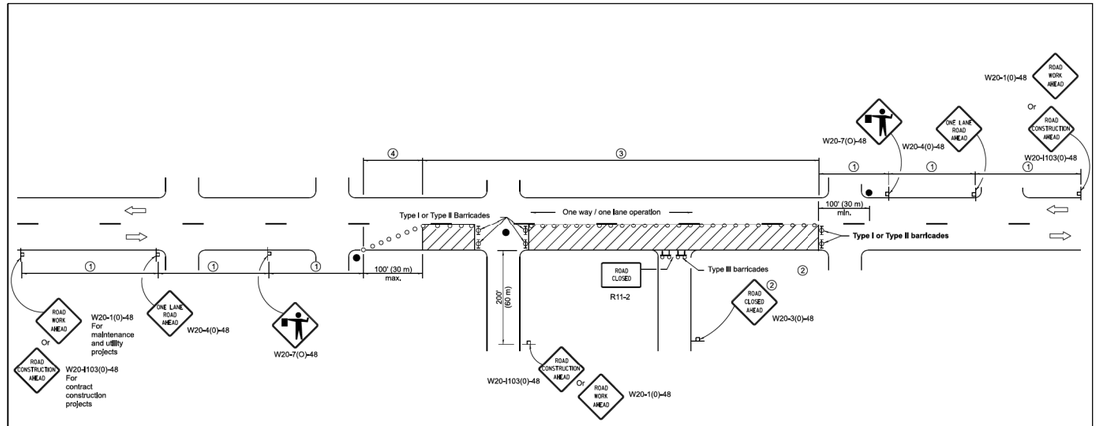
All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation
APPROVED January 1, 2011 — ENGINEER OF SAFETY ENGINEERING
APPROVED January 1, 2011 — ENGINEER OF DESIGN AND ENVIRONMENT
BDE 629 (1 of 2)

DATE	REVISIONS
1-1-11	Revised flagger sign.
1-1-09	Switched units to English (metric).

LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS

STANDARD 701301-04



SIGN SPACING	
Posted Speed	Sign Spacing
55	500' (150 m)
50-45	350' (100 m)
<45	200' (60 m)

SYMBOLS

Work area
Cone, drum or barricade (not required for moving operations)
Sign on portable or permanent support
Flagger with traffic control sign
Barricade or drum with flashing light
Type III barricade with flashing lights

① Refer to SIGN SPACING TABLE for distances.
② For approved sideroad closures.
③ Cones at 25' (8 m) centers for 250' (75 m). Additional cones may be placed at 50' (15 m) centers. When drums or Type I or Type II barricades are used, the interval between devices may be doubled.
④ Cones, drums or barricades at 20' (6 m) centers.

GENERAL NOTES

This Standard is used where at any time, day or night, any vehicle, equipment, workers or their activities encroach on the pavement requiring the closure of one traffic lane in an urban area.

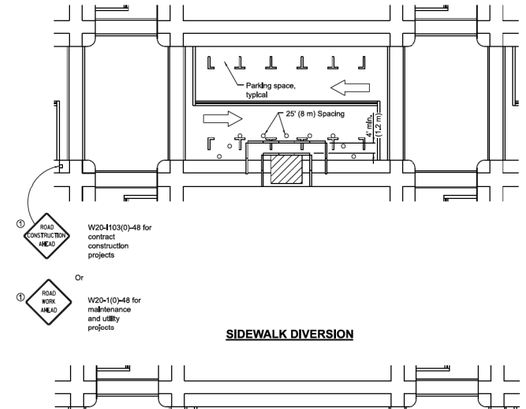
All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation
APPROVED January 1, 2011 — ENGINEER OF SAFETY ENGINEERING
APPROVED January 1, 2011 — ENGINEER OF DESIGN AND ENVIRONMENT
BDE 629 (1 of 2)

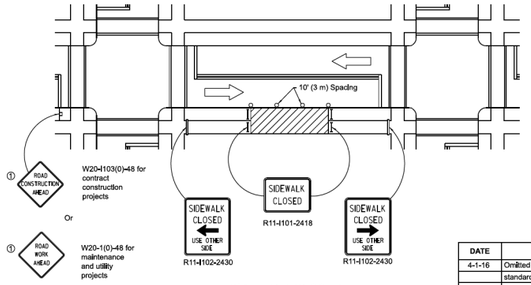
DATE	REVISIONS
1-1-11	Revised flagger sign.
1-1-09	Switched units to English (metric).
	Corrected sign No.'s.

URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED

STANDARD 701501-06



SIDEWALK DIVERSION



SIDEWALK CLOSURE

SYMBOLS

Work area
Sign on portable or permanent support
Barricade or drum
Cone, drum or barricade
Type III barricade
Detectable pedestrian channelizing barricade

① Omit whenever duplicated by road work traffic control.

GENERAL NOTES

This Standard is used where, at any time, pedestrian traffic must be rerouted due to work being performed.

This Standard must be used in conjunction with other Traffic Control & Protection Standards when roadway traffic is affected.

Temporary facilities shall be detectable and accessible.

The temporary pedestrian facilities shall be provided on the same side of the closed facilities whenever possible.

The SIDEWALK CLOSED / USE OTHER SIDE sign shall be placed at the nearest crosswalk or intersection to each end of the closure. Where the closure occurs at a corner, the signs shall be erected on the corners across the street from the closure. The SIDEWALK CLOSED signs shall be used at the ends of the actual closures.

Type III barricades and R11-2-4830 signs shall be positioned as shown in "ROAD CLOSED TO ALL TRAFFIC" detail on Standard 701901.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation
APPROVED January 1, 2016 — ENGINEER OF SAFETY ENGINEERING
APPROVED January 1, 2016 — ENGINEER OF DESIGN AND ENVIRONMENT
BDE 629 (1 of 2)

DATE	REVISIONS
4-1-16	Omitted orange safety fence from standard as this is covered in the standard spec.
1-1-12	Added SIDEWALK DIVERSION.
	Modified appearance of plan views.
	Renamed Standard.

SIDEWALK, CORNER OR CROSSWALK CLOSURE

(Sheet 1 of 2)

STANDARD 701801-06

PLAN — SURVEYED — BY — DATE
NOTE BOOK — DRAWN — ALIGNMENT CHECKED — NO. — RT. OF WAY CHECKED — CLASS SEL MARK

PROFILE — SURVEYED — BY — DATE
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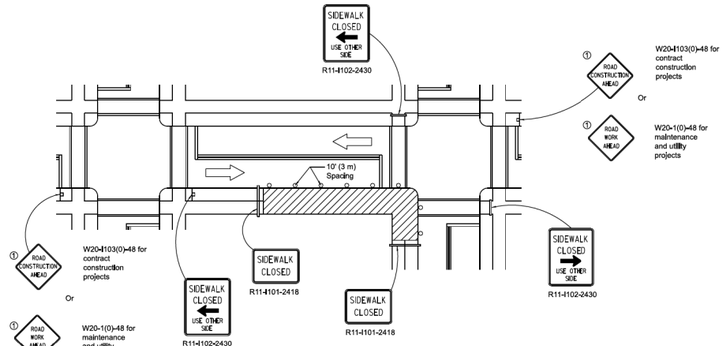
USER NAME =		DESIGNED -	LAM	REVISED -	
		DRAWN -	NFM	REVISED -	
PLOT SCALE = 0.16666667 ' / in.		CHECKED -	LAM	REVISED -	
PLOT DATE =		DATE -	2/6/2026	REVISED -	

VILLAGE OF ARLINGTON HEIGHTS

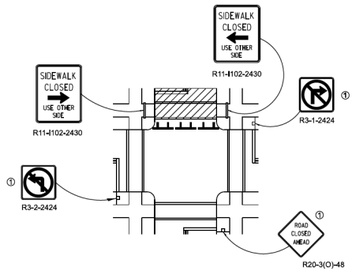
REGENCY COURT LIFT STATION RECONSTRUCTION
IDOT DETAILS

SCALE: N.T.S. | SHEET 2 OF 3 SHEETS | STA. - | TO STA. -

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	14	13
		CONTRACT NO. 22034.01		
		ILLINOIS	FED. AID PROJECT	



CORNER CLOSURE



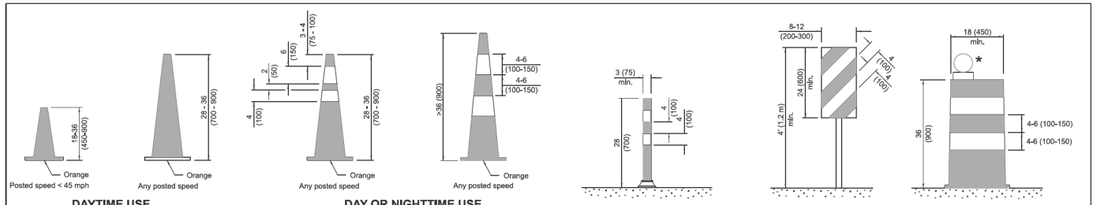
CROSSWALK CLOSURE

Illinois Department of Transportation
APPROVED January 1, 2016
ENGINEER OF SAFETY PROG. AND ENGINEERING
APPROVED January 1, 2016
ENGINEER OF DESIGN AND ENVIRONMENT
BDE/TC 635(D)

SIDEWALK, CORNER OR CROSSWALK CLOSURE

(Sheet 2 of 2)

STANDARD 701801-06



GENERAL NOTES

All heights shown shall be measured above the pavement surface.

All dimensions are in inches (millimeters) unless otherwise shown.

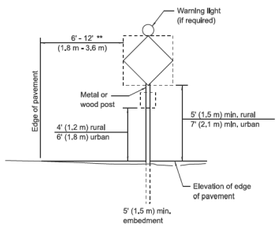
DATE	REVISIONS
1-1-25	Updated Temporary Rumble Strip Detail (sht. 3).
1-1-24	Revised Type III Barricade notes (sht. 3) & moved warning light on post mounted signs to top center.

Illinois Department of Transportation
APPROVED January 1, 2025
ENGINEER OF SAFETY PROG. AND ENGINEERING
APPROVED January 1, 2025
ENGINEER OF DESIGN AND ENVIRONMENT
BDE/TC 635(D)

TRAFFIC CONTROL DEVICES

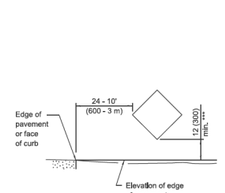
(Sheet 1 of 3)

STANDARD 701901-10



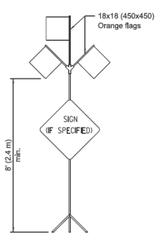
POST MOUNTED SIGNS

** When curb or paved shoulder are present this dimension shall be 24 (600) to the face of curb or 6' (1,8 m) to the outside edge of the paved shoulder.



SIGNS ON TEMPORARY SUPPORTS

*** When work operations exceed four days, this dimension shall be 5' (1,5 m) min. If located behind other devices, the height shall be sufficient to be seen completely above the devices.



HIGH LEVEL WARNING DEVICE

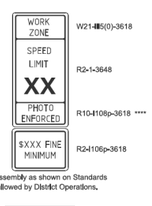
This signing is required for all projects 2 miles (3200 m) or more in length.

ROAD CONSTRUCTION NEXT X MILES sign shall be placed 500' (150 m) in advance of project limits.

END CONSTRUCTION sign shall be erected at the end of the job unless another job is within 2 miles (3200 m).

Dual sign displays shall be utilized on multi-lane highways.

WORK LIMIT SIGNING

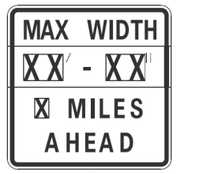


Sign assembly as shown on Standards or as allowed by District Operations.

This sign shall be used when the above sign assembly is used.

HIGHWAY CONSTRUCTION SPEED ZONE SIGNS

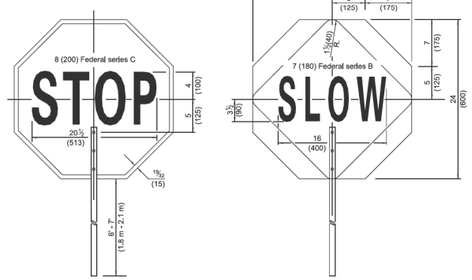
**** R10-4108p shall only be used along roadways under the jurisdiction of the State.



W12-4103-4848

WIDTH RESTRICTION SIGN

XX-XX' width and X miles are variable.



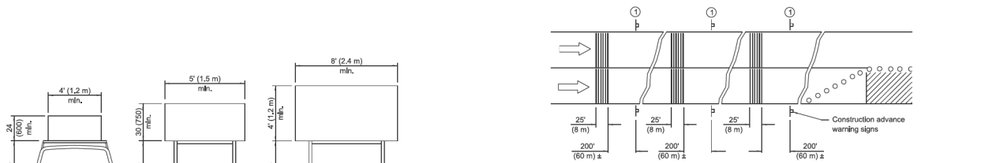
FLAGGER TRAFFIC CONTROL SIGN

Illinois Department of Transportation
APPROVED January 1, 2025
ENGINEER OF SAFETY PROG. AND ENGINEERING
APPROVED January 1, 2025
ENGINEER OF DESIGN AND ENVIRONMENT
BDE/TC 635(D)

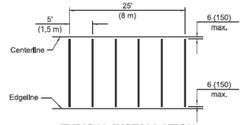
TRAFFIC CONTROL DEVICES

(Sheet 2 of 3)

STANDARD 701901-10

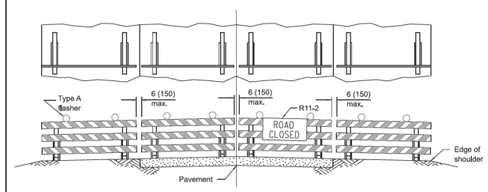


① This sign shall be omitted when median width is less than 10' (3 m).



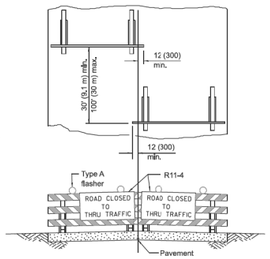
TYPICAL INSTALLATION

TEMPORARY RUMBLE STRIPS



ROAD CLOSED TO ALL TRAFFIC

Reflectorized striping may be omitted on the back side of the barricades.



ROAD CLOSED TO THRU TRAFFIC

Reflectorized striping shall appear on both sides of the barricades.

TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD

If a Type III barricade with an attached sign panel which meets NCHRP 350 or MASH is not available, the sign may be mounted on an NCHRP 350 or MASH temporary sign support directly in front of the barricade.

Illinois Department of Transportation
APPROVED January 1, 2025
ENGINEER OF SAFETY PROG. AND ENGINEERING
APPROVED January 1, 2025
ENGINEER OF DESIGN AND ENVIRONMENT
BDE/TC 635(D)

TRAFFIC CONTROL DEVICES

(Sheet 3 of 3)

STANDARD 701901-10

PLAN / PROFILE — SURVEYED, DRAWN, GRADES CHECKED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CLASS./ ILL. MARK, NOTE BOOK, NO., BY, DATE

DATE PLOTTED = 2/6/2026 12:03:29 PM
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CiorbaGroup
8725 W. Higgins Rd, Ste 600, Chicago, IL 60631
P 773.775.4009 | www.ciorba.com

USER NAME =	DESIGNED - LAM	REVISED -	
	DRAWN - NFM	REVISED -	
PLOT SCALE = 0.16666667 '/ in.	CHECKED - LAM	REVISED -	
PLOT DATE =	DATE - 2/6/2026	REVISED -	

VILLAGE OF ARLINGTON HEIGHTS

REGENCY COURT LIFT STATION RECONSTRUCTION
IDOT DETAILS

SCALE: N.T.S. | SHEET 3 OF 3 SHEETS | STA. - | TO STA. -

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	14	14
		CONTRACT NO. 22034.01		
		ILLINOIS	FED. AID PROJECT	

REVISED 4-1-26

VILLAGE OF ARLINGTON HEIGHTS

PROPOSAL SHEET

				BASE BID	
ITEM NO.	ITEM	UNIT	CONTRACT QUANTITY	UNIT PRICE	ITEM TOTAL
SP-1	TRAFFIC CONTROL AND PROTECTION	L SUM	1	$12,070.00	$12,070.00
SP-2	CONSTRUCTION LAYOUT	L SUM	1	$4,550.00	$4,550.00
01 33 00	VIDEO DOCUMENTATION OF EXISTING CONDITIONS	L SUM	1	$1,000.00	$1,000.00
01 50 00	TEMPORARY FACILITIES AND CONTROLS	L SUM	1	$2,200.00	$2,200.00
01 51 00	TEMPORARY BYPASS PUMPING	L SUM	1	$9,235.00	$9,235.00
01 57 00	EROSION AND SEDIMENT CONTROL	L SUM	1	$1,225.00	$1,225.00
01 57 13	MOBILIZATION AND DEMOBILIZATION	L SUM	1	$8,500.00	$8,500.00
02 01 00	TREE REMOVAL	UNIT	13	$90.00	$1,170.00
02 41 00	DEMOLITION	L SUM	1	$37,930.00	$37,930.00
03 00 00-1	WET WELL TOP SLAB	L SUM	1	$8,100.00	$8,100.00
03 00 00-2	WET WELL	L SUM	1	$185,934.00	$185,934.00
03 00 00-3	METER VAULT/VALVE/BYPASS VAULT	L SUM	1	$112,640.00	$112,640.00
03 00 00-4	CONCRETE TRAFFIC BOX ENCLOSURE PAD	L SUM	1	$9,565.00	$9,565.00
03 00 00-5	CONCRETE GENERATOR PAD	L SUM	1	$10,645.00	$10,645.00
22 13 19	PROCESS VALVES AND APPURTENANCES	L SUM	1	$20,480.00	$20,480.00
22 13 13	PROCESS PIPING AND APPURTENANCES	L SUM	1	$66,417.00	$66,417.00
22 13 29	SUBMERSIBLE SOLIDS HANDLING PUMPS AND APPURTENANCES	L SUM	1	$73,722.00	$73,722.00
22 14 19	SUMP PUMP SYSTEMS	L SUM	1	$7,332.00	$7,332.00
26 05 00	ELECTRICAL WIRES AND CABLES	L SUM	1	$7,424.00	$7,424.00
26 05 26	GROUNDING	L SUM	1	$5,760.00	$5,760.00

26 05 33	ELECTRICAL CONDUIT	L SUM	1	$33,920.00	$33,920.00
26 20 00-1	ELECTRIC SERVICE AND DISTRIBUTION	L SUM	1	$44,800.00	$44,800.00
26 20 00-2	ELECTRIC SERVICE UTILITY FEE	ALLOWANCE	1	$10,000	$10,000
26 36 20	NATURAL GAS ENGINE GENERATOR	L SUM	1	$92,384.00	$92,384.00
31 23 16-1	EARTHWORK	L SUM	1	$8,500.00	$8,500.00
31 41 00	TEMPORARY SOIL RETENTION SYSTEMS	L SUM	1	$92,625.00	$92,625.00
32 13 13-1	CLASS B PATCHES, 8 INCH	SQ YD	40	$250.00	$10,000.00
32 13 13-2	CONCRETE SIDWALK, 5"	SQ FT	394	$25.00	$9,850.00
32 13 13-3	CURB AND GUTTER REPLACEMENT	FOOT	172	$47.00	$8,084.00
32 92 00-1	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	300	$13.00	$3,900.00
32 92 00-2	SEEDING CLASS 1A	ACRE	0.1	$13,000.00	$1,300.00
32 92 00-3	MULCH, METHOD 3	ACRE	0.1	$13,000.00	$1,300.00
33 05 19	DUCTILE IRON FORCE MAIN, 6-INCH	FOOT	19	$850.00	$16,150.00
33 09 30	PUMP CONTROL PANEL FOR LIFT STATION	L SUM	1	$273,586.00	$273,586.00
33 31 11	8" PVC C900 (DR18) SANITARY SEWER	FOOT	27	$820.00	$22,140.00
			TOTAL BASE BID		
			Enter this number into your electronic bid submission		$1,214,438.00

ALTERNATIVE BID 1: *Includes the connection of the force main 40' south of the plan location. The additional quantities are estimated in the Alternative 1 Bid Schedule the following page.*

				ALTERNATIVE BID	
ITEM NO.	ITEM	UNIT	CONTRACT QUANTITY	UNIT PRICE	ITEM TOTAL
32 13 13-1	CLASS B PATCHES, 8 INCH	SQ YD	44	$250.00	$11,000.00
32 13 13-2	CONCRETE SIDWALK, 5"	SQ FT	75	$25.00	$1,875.00
32 13 13-3	CURB AND GUTTER REPLACEMENT	FOOT	10	$47.00	$470.00
33 05 19	DUCTILE IRON FORCE MAIN, 6-INCH	FOOT	40	$850.00	$34,000.00
			ALTERNATIVE ITEMS SUBTOTAL Enter this number into your electronic bid submission		$47,345.00
			BASE BID This number is NOT entered in your electronic bid submission		$1,214,438.00
			ALTERNATIVE BID = ALTERNATIVES ITEMS SUBTOTAL + BASE BID This number is NOT entered in your electronic bid submission		$1,261,783.00

Document A310™ – 2010

Conforms with The American Institute of Architects AIA Document 310

Bid Bond

CONTRACTOR:
(Name, legal status and address)

Martam Construction, Inc.
1200 Gasket Dr.
Elgin, IL 60120

SURETY:
(Name, legal status and principal place of business)

Travelers Casualty and Surety Company of America
One Tower Square
Hartford, CT 06183
Mailing Address for Notices
1411 Opus Pl, Ste 450
Downers Grove, Illinois 60515

OWNER:
(Name, legal status and address)

Village of Arlington Heights
33 South Arlington Heights Road
Arlington Heights, IL 60005

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

BOND AMOUNT: $ 10% Ten Percent of Amount Bid

PROJECT:
(Name, location or address, and Project number, if any)

Regency Court Lift Station Reconstruction

The Contractor and Surety are bound to the Owner in the amount set forth above, for the payment of which the Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, as provided herein. The conditions of this Bond are such that if the Owner accepts the bid of the Contractor within the time specified in the bid documents, or within such time period as may be agreed to by the Owner and Contractor, and the Contractor either (1) enters into a contract with the Owner in accordance with the terms of such bid, and gives such bond or bonds as may be specified in the bidding or Contract Documents, with a surety admitted in the jurisdiction of the Project and otherwise acceptable to the Owner, for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof; or (2) pays to the Owner the difference, not to exceed the amount of this Bond, between the amount specified in said bid and such larger amount for which the Owner may in good faith contract with another party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect. The Surety hereby waives any notice of an agreement between the Owner and Contractor to extend the time in which the Owner may accept the bid. Waiver of notice by the Surety shall not apply to any extension exceeding sixty (60) days in the aggregate beyond the time for acceptance of bids specified in the bid documents, and the Owner and Contractor shall obtain the Surety's consent for an extension beyond sixty (60) days.

If this Bond is issued in connection with a subcontractor's bid to a Contractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

When this Bond has been furnished to comply with a statutory or other legal requirement in the location of the Project, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

Signed and sealed this 2nd day of April, 2026

(Witness)

(Witness) Maria A.Gonzalez

Martam Construction, Inc.
(Principal) *(Seal)*

By:
(Title) Secretary

Travelers Casualty and Surety Company of America
(Surety) *(Seal)*

By:
(Title) James I. Moore Attorney-in-Fact

S-0054/AS 8/10

State of Illinois

County of DuPage

SURETY ACKNOWLEDGEMENT (ATTORNEY-IN-FACT)

I, Maria A. Gonzalez Notary Public of DuPage County, in the State of Illinois, do hereby certify that James I. Moore Attorney-in-Fact, of the Travelers Casualty and Surety Company of America who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person, and acknowledged that he signed, sealed and delivered said instrument, for and on behalf of the Travelers Casualty and Surety Company of America for the uses and purposes therein set forth.

Given under my hand and notarial seal at my office in the City of Downers Grove in said County, this 2nd day of April, 2026.

OFFICIAL SEAL
MARIA A GONZALEZ
NOTARY PUBLIC, STATE OF ILLINOIS
WILL COUNTY
MY COMMISSION EXPIRES 09/25/2026

Notary Public Maria A. Gonzalez

My Commission expires: September 25, 2026

TRAVELERS	Travelers Casualty and Surety Company of America Travelers Casualty and Surety Company St. Paul Fire and Marine Insurance Company Farmington Casualty Company

POWER OF ATTORNEY

Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, St. Paul Fire and Marine Insurance Company, and Farmington Casualty Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and the Companies do hereby make, constitute and appoint James I. Moore of Downers Grove, IL , their true and lawful Attorney(s)-in-Fact to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed, and their corporate seals to be hereto affixed, this **4th** day of **March, 2024.**

SEAL SEAL SEAL SEAL

State of Connecticut

City of Hartford ss.

By: _____
Bryce Grissom, Senior Vice President

On this the **4th** day of **March, 2024**, before me personally appeared **Bryce Grissom**, who acknowledged himself to be the Senior Vice President of each of the Companies, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of said Companies by himself as a duly authorized officer.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission expires the **30th** day of **June, 2026**

ANNA P NOWIK NOTARY PUBLIC CONNECTICUT

_____
Anna P. Nowik, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of each of the Companies, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, **Kevin E. Hughes**, the undersigned, Assistant Secretary of each of the Companies, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

Dated this April 2, 2026

SEAL SEAL SEAL SEAL

_____
Kevin E. Hughes, Assistant Secretary

To verify the authenticity of this Power of Attorney, please call us at 1-800-421-3880.
Please refer to the above-named Attorney(s)-in-Fact and the details of the bond to which this Power of Attorney is attached.

VILLAGE OF ARLINGTON HEIGHTS

AFFIDAVIT OF COMPLIANCE

Applicant Martam Construction, Inc.
Name

1200 Gasket Dr., Elgin, IL 60120
Address

As a condition of entering into a contract with the Village of Arlington Heights, and under oath and penalty of perjury and possible termination of contract right and debarment, the undersigned, Jerry Kwiecinski, being first duly sworn on oath, deposes and states that he or she is Corporate Secretary (sole owner, partner, joint ventured, President, Secretary, etc..) of Martam Construction, Inc. and has the authority to
(Name of Company)
make all certifications required by this affidavit.

Section I

Non Collusion

The undersigned certifies that this bid, that such bid is genuine and not collusive or sham, that said bidder has not colluded, conspired, connived or agreed, directly or indirectly, with any bidder or person, to put in a sham bid or to refrain from bidding, and has not in any manner, directly or indirectly, sought by agreement or collusion, or communication or conference with any person, to fix the bid price element of this bid, or of that of any other bidder, or to secure any advantage against any other bidder or any person interested in the proposed contract.

Section II

Bid Rigging and Rotating

The undersigned hereby certifies that it is not barred from bidding or contracting as a result of a conviction for violations of state laws prohibiting bid rigging or bid rotating or any similar offense of any state of the United States.

Section III

Illinois Drug Free Workplace Act

The undersigned further states that Martam Construction, Inc. provides
(Name of Company)
A drug free workplace pursuant to Illinois Statues, 30 ILCS 580/1, et seq and provides compliance with necessary requirements.

Section IV

Tax Payment

The undersigned further states that Martam Construction, Inc. is not
(Name of Company)
delinquent in payment of any taxes to the Illinois Department of Revenue, in accordance with Illinois Compiled Statues, 65 ILCS 5/11-42.1. The undersigned understands that making a false statement regarding delinquency in taxes is a Class A Misdemeanor and, in addition voids the contract and allows the municipality to recover all amounts paid to the individual or entity under the contract in civil action.

It is expressly understood the foregoing statements and representations and promises are made as a condition to the right of the bidder to receive payment under any award made under the terms and provisions of this bid.

The undersigned certifies that all the information contained in the Affidavit is true and correct.

Signed by: _____
(Name) Jerry Kutrovatz
(Title) Corporate Secretary

Subscribed and sworn to before me this 1st day of April 20 26, AD.

By: _____
(Notary Public)

-Seal-

OFFICIAL SEAL
ELIZABETH FRANCES ADERTON
NOTARY PUBLIC, STATE OF ILLINOIS
COMMISSION NO. 986394
MY COMMISSION EXPIRES Jan 31, 2028

VILLAGE OF ARLINGTON HEIGHTS

INDEMNITY HOLD HARMLESS AGREEMENT

To the fullest extent permitted by law, the Contractor hereby agrees to defend, indemnify and hold harmless the Village of Arlington Heights, its Board of Trustees, officers, agents and employees from any and all liability, losses or damages the Village may suffer as a result of claims, demands, suits, actions or proceedings of any kind or nature in any way resulting from or arising out of any action on the part of the Contractor or any Subcontractor. The Contractor shall, at its own expense; appear, defend and pay all charges of attorneys and all costs and other expenses arising therefrom or incurred in connection therewith, and, if any judgment shall be rendered against the Village of Arlington Heights, its Board of Trustees, officers, agents and employees, in any such action, the contractor shall, at its own expense, satisfy and discharge the same. This indemnification does not apply to liability caused by the Village's own negligence.

The Contractor expressly understands and agrees that any insurance policies required by this contract, or otherwise provided by the Contractor, shall in no way limit the responsibility to indemnify, keep and save harmless and defend the Village of Arlington Heights, its Board of Trustees, officers, agents and employees as herein provided.

CONTRACTOR: Martam Construction, Inc.

By: _____

VENDOR APPLICATION

A W-9 must be submitted with this application.

Company Name: Martam Construction, Inc.

Remit To Address: Include if different than W-9 Address.
Company Name: Martam Construction, Inc.
Street Address: 1200 Gasket Drive
City: Elgin State: IL Zip: 60120

Contact Information:
Name: Jerry Kutrovatz PH#: (847) 608-6800 Email: Jerry@martam.com

Vendor Classification:
In accordance with Illinois Public Act 102-0265, the Village of Arlington Heights is required to make a good faith effort to collect and publish certain demographic information provided by our vendors and subcontractors doing business with us. We are required to report whether they are a minority, woman or veteran-owned business as defined by Illinois Law. In addition, we are required to report whether the vendor is a small business under the Small Business Administration standards (SBA).

Please indicate any applicable classification below or check NA, and check if self-certified or if certified. **Submit the appropriate certification documentation with this form.**

☐ Small Business: Meets certification requirements as a small business under SBA standards (more information available at SBA.gov)
Avg # of Employees: _____ Avg Annual Receipts less than $7.5M Yes No
Self-Certified Holds Certification

☐ Minority-Owned Business Enterprise (MBE): A business that is at least 51 percent owned by one or more minorities. A person who is a U.S. citizen or lawful permanent resident of the United States and is African American, Hispanic American, Asian American, Native American or Native Hawaiian.
Self-Certified Holds Certification

☐ Women-Owned Business Enterprise (WBE): A business that is at least 51 percent owned by a woman or women who are U. S. Citizens or lawful permanent residents of the U.S.
Self-Certified Holds Certification

☐ Disability-Owned Business Enterprise (DOBE): A business that is at least 51 percent owned by a person or group of persons with a disability (per the definition in 30 ILCS 575) and who is a U.S. citizen or lawful permanent resident of the United States.
Self-Certified Holds Certification

☐ Veteran-Owned Small Business (VOSB): A small business that is at least 51 percent owned, operated & controlled by a qualified veteran living in IL and its home office in IL.
Self-Certified Holds Certification

☑ Not Applicable

Name of Person Completing this form: George Ismail Date: 4/1/26

Form **W-9**
(Rev. March 2024)
Department of the Treasury
Internal Revenue Service

Request for Taxpayer Identification Number and Certification

Go to *www.irs.gov/FormW9* for instructions and the latest information.

Give form to the requester. Do not send to the IRS.

Before you begin. For guidance related to the purpose of Form W-9, see *Purpose of Form*, below.

Print or type. See *Specific Instructions* on page 3.

1 Name of entity/individual. An entry is required. (For a sole proprietor or disregarded entity, enter the owner's name on line 1, and enter the business/disregarded entity's name on line 2.)

Martam Construction, Inc

2 Business name/disregarded entity name, if different from above.

3a Check the appropriate box for federal tax classification of the entity/individual whose name is entered on line 1. Check only **one** of the following seven boxes.

☐ Individual/sole proprietor ☑ C corporation ☐ S corporation ☐ Partnership ☐ Trust/estate

☐ LLC. Enter the tax classification (C = C corporation, S = S corporation, P = Partnership) . . . . .

Note: Check the "LLC" box above and, in the entry space, enter the appropriate code (C, S, or P) for the tax classification of the LLC, unless it is a disregarded entity. A disregarded entity should instead check the appropriate box for the tax classification of its owner.

☐ Other (see instructions)

4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3):

Exempt payee code (if any)

Exemption from Foreign Account Tax Compliance Act (FATCA) reporting code (if any)

(Applies to accounts maintained outside the United States.)

3b If on line 3a you checked "Partnership" or "Trust/estate," or checked "LLC" and entered "P" as its tax classification, and you are providing this form to a partnership, trust, or estate in which you have an ownership interest, check this box if you have any foreign partners, owners, or beneficiaries. See instructions . . . . . ☐

5 Address (number, street, and apt. or suite no.). See instructions.

1200 Gasket Drive

Requester's name and address (optional)

6 City, state, and ZIP code

Elgin, IL 60120

7 List account number(s) here (optional)

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

Note: If the account is in more than one name, see the instructions for line 1. See also *What Name and Number To Give the Requester* for guidelines on whose number to enter.

Social security number

			–			–				

or

Employer identification number

3	6	–	2	7	7	9	9	0	4

Part II Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
2. I am not subject to backup withholding because (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
3. I am a U.S. citizen or other U.S. person (defined below); and
4. The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and, generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

Sign Here Signature of U.S. person Karen Lukerich Date 4.1.26

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to *www.irs.gov/FormW9*.

What's New

Line 3a has been modified to clarify how a disregarded entity completes this line. An LLC that is a disregarded entity should check the appropriate box for the tax classification of its owner. Otherwise, it should check the "LLC" box and enter its appropriate tax classification.

New line 3b has been added to this form. A flow-through entity is required to complete this line to indicate that it has direct or indirect foreign partners, owners, or beneficiaries when it provides the Form W-9 to another flow-through entity in which it has an ownership interest. This change is intended to provide a flow-through entity with information regarding the status of its indirect foreign partners, owners, or beneficiaries, so that it can satisfy any applicable reporting requirements. For example, a partnership that has any indirect foreign partners may be required to complete Schedules K-2 and K-3. See the Partnership Instructions for Schedules K-2 and K-3 (Form 1065).

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS is giving you this form because they

VILLAGE OF ARLINGTON HEIGHTS

PROPOSAL

NAME OF BIDDER: Martam Construction, Inc.

ADDRESS OF BIDDER: 1200 Garnet Drive
Elgin, IL 60120

TO: VILLAGE ENGINEER
VILLAGE OF ARLINGTON HEIGHTS
33 SOUTH ARLINGTON HEIGHTS ROAD
ARLINGTON HEIGHTS, IL 60005

PROJECT: "Regency Court Lift Station Reconstruction"

The undersigned Bidder submits herewith a Proposal Guaranty in the amount of 10% in accordance with the terms set forth in the Bid Specifications.

The undersigned Bidder, having examined the site of the work and determined the scope of the Plans & Bid Specifications, for the above named project, hereby proposes to provide the required labor, services, and equipment and to perform the work as described in documents referenced above, including Addenda Nos 1, and to do all the work at the schedule of unit prices attached.

The undersigned hereby certifies that the bidder is not barred from contracting as a result of a conviction for violations of state laws prohibiting bid rigging or bid rotating or any similar offense of any state or the United States.

Title: Corporate Secretary
(Print)

By: Jerry Kutrovatz
(Print name)

Signature:

Date: 4/1/2026

Attest:

Notary

OFFICIAL SEAL
ELIZABETH FRANCES ADERTON
NOTARY PUBLIC, STATE OF ILLINOIS
COMMISSION NO. 986394
MY COMMISSION EXPIRES Jan 31, 2028

VILLAGE OF ARLINGTON HEIGHTS
INC. 1887

Addendum # 1

Date: April 1, 2026

To: All Bidders on the following Project

Project: **Regency Court Lift Station Reconstruction**
Bid Opening: Thursday April 2, 2026 at 1:00 pm

The following addendum shall be included and is considered part of the bid documents. The Bidder shall acknowledge receipt of this addendum and inclusion in the bid by including a signed copy with the sealed bid submitted. Failure to return this form may result in disqualification of the Bidder.

1. Clarification on the Bid Cost to be submitted electronically

   - We have modified the verbiage of 1 of the cost to be entered in the Electronic Bid System
     - "Total Base Bid"- This has not changed
     - "Alternative Bid"- This has been changed to state "Subtotal of Alternative Items"
   - Please use the revised attached document titled "Bid Proposal Submission- Regency Court Lift Station Reconstruction- Updated 4-1-26" with your Bid Submittal.
   - If your bid is in "Saved for Later" Status, you most likely will need to modify your bid based on this change.
     - Please refer to the attached instructions on submitting your bid as reference.
     - Please feel free to email or call Lisa Subrin at lsubrin@vah.com or 847-386-5509 for additional help.

Bidder's Acknowledgment of Receipt:

Company Name: Martam Construction, Inc.

Signature: _____

Print Name	Edward M. Ismail
Title:	Senior Project Manager/Estimator
Date:	04/01/2026

Failure to return this form may result in disqualification of the Bidde

CiorbaGroup
CONSULTING ENGINEERS

April 7, 2026

Mr. Scott Schweda, W.O.
Utility Superintendent
Public Works and Engineering Department
222 N Ridge Avenue
Arlington Heights, Illinois 60005

Subject: **Regency Court Lift Station Reconstruction**
Bid Review and Recommendation

Dear Mr. Schweda:

The Village received bids until 1:00 p.m. on Thursday, April 2nd for the Regency Court Lift Station Reconstruction Project. Five (5) bids were received for the project and publicly opened and read aloud. All Bidders included acknowledgement of Addendum No. 1, Bid Bond, and a Signed Proposal Form. No bidders requested Contract Modifications. The apparent low bidder is Martam Construction, with a Base Bid amount of $1,214,438.00 (see summary below and tabulation attached).

Bidder	Total Bid Price
Martam Construction	$1,214,438.00
John Neri Construction	$1,336,105.00
Performance Cons. & Eng.	$1,470,732.00
Bolder Contractors	$1,524,530.00
H. Linden & Sons Sewer & Water	$1,729,782.00

Per the Village's instructions, the Alternative Bid was not reviewed.

Ciorba Group has performed construction management work for lift stations constructed by Martam Construction in the Villages of Mount Prospect and Hoffman Estates of similar scope. Martam's bid was also found to be within the Engineer's Estimate. Based on our review, we find Martam Construction to be the lowest responsible bidder.

For these reasons, Ciorba Group recommends that the Village award the Regency Court Lift Station Reconstruction to Martam Construction, 1200 Gasket Drive, Elgin, IL, for the Base Bid amount of $1,214,438.00.

Please contact us with any comments or questions.

Sincerely,
Ciorba Group, Inc.

Luke A. Mattson, P.E.
Water Resources Project Manager II

8725 W. Higgins Road, Suite 600
Chicago, IL 60631
P 773.775.4009
F 773.775.4014
ciorba.com

Village of Arlington Heights
Regency Court Lift Station Reconstruction
Bid Tabulation
For Bid Opening - 4/2/2026

BASE BID				ENGINEERS ESTIMATE		MARTAM CONSTRUCTION		JOHN NERI CONSTRUCTION		PERFORMANCE CONS. & ENG.		BOLDER CONTRACTORS		H. LINDEN & SONS	
ITEM	PAY ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	ITEM COST	UNIT COST	ITEM COST	UNIT COST	ITEM COST	UNIT COST	ITEM COST	UNIT COST	ITEM COST	UNIT COST	ITEM COST
SP-1	TRAFFIC CONTROL AND PROTECTION	L SUM	1	$20,000.00	$ 20,000.00	$12,070.00	$ 12,070.00	$9,800.00	$ 9,800.00	$10,000.00	$ 10,000.00	$10,000.00	$ 10,000.00	$75,000.00	$ 75,000.00
SP-2	CONSTRUCTION LAYOUT	L SUM	1	$4,000.00	$ 4,000.00	$4,550.00	$ 4,550.00	$3,600.00	$ 3,600.00	$8,000.00	$ 8,000.00	$9,000.00	$ 9,000.00	$10,000.00	$ 10,000.00
01 33 00	VIDEO DOCUMENTATION OF EXISTING CONDITIONS	L SUM	1	$2,000.00	$ 2,000.00	$1,000.00	$ 1,000.00	$2,500.00	$ 2,500.00	$5,000.00	$ 5,000.00	$100.00	$ 100.00	$2,000.00	$ 2,000.00
01 50 00	TEMPORARY FACILITIES AND CONTROLS	L SUM	1	$6,000.00	$ 6,000.00	$2,200.00	$ 2,200.00	$24,500.00	$ 24,500.00	$20,000.00	$ 20,000.00	$2.00	$ 2.00	$5,000.00	$ 5,000.00
01 51 00	TEMPORARY BYPASS PUMPING	L SUM	1	$40,000.00	$ 40,000.00	$9,235.00	$ 9,235.00	$37,500.00	$ 37,500.00	$15,000.00	$ 15,000.00	$10,000.00	$ 10,000.00	$50,000.00	$ 50,000.00
01 57 00	EROSION AND SEDIMENT CONTROL	L SUM	1	$4,000.00	$ 4,000.00	$1,225.00	$ 1,225.00	$4,500.00	$ 4,500.00	$3,000.00	$ 3,000.00	$1,000.00	$ 1,000.00	$3,000.00	$ 3,000.00
01 57 13	MOBILIZATION AND DEMOBILIZATION	L SUM	1	$54,000.00	$ 54,000.00	$8,500.00	$ 8,500.00	$15,000.00	$ 15,000.00	$118,000.00	$ 118,000.00	$90,000.00	$ 90,000.00	$70,000.00	$ 70,000.00
02 01 00	TREE REMOVAL	UNIT	13	$125.00	$ 1,625.00	$90.00	$ 1,170.00	$175.00	$ 2,275.00	$2,000.00	$ 26,000.00	$250.00	$ 3,250.00	$70.00	$ 910.00
02 41 00	DEMOLITION	L SUM	1	$40,000.00	$ 40,000.00	$37,930.00	$ 37,930.00	$27,500.00	$ 27,500.00	$50,000.00	$ 50,000.00	$24,000.00	$ 24,000.00	$64,000.00	$ 64,000.00
03 00 00-1	WET WELL TOP SLAB	L SUM	1	$5,000.00	$ 5,000.00	$8,100.00	$ 8,100.00	$18,900.00	$ 18,900.00	$14,252.00	$ 14,252.00	$5,000.00	$ 5,000.00	$28,000.00	$ 28,000.00
03 00 00-2	WET WELL	L SUM	1	$400,000.00	$ 400,000.00	$185,934.00	$ 185,934.00	$175,000.00	$ 175,000.00	$200,000.00	$ 200,000.00	$450,000.00	$ 450,000.00	$300,000.00	$ 300,000.00
03 00 00-3	METER VAULT/VALVE/BYPASS VAULT	L SUM	1	$95,000.00	$ 95,000.00	$112,640.00	$ 112,640.00	$198,000.00	$ 198,000.00	$90,000.00	$ 90,000.00	$180,000.00	$ 180,000.00	$80,000.00	$ 80,000.00
03 00 00-4	CONCRETE TRAFFIC BOX ENCLOSURE PAD	L SUM	1	$6,000.00	$ 6,000.00	$9,565.00	$ 9,565.00	$7,500.00	$ 7,500.00	$15,000.00	$ 15,000.00	$3,000.00	$ 3,000.00	$12,000.00	$ 12,000.00
03 00 00-5	CONCRETE GENERATOR PAD	L SUM	1	$7,000.00	$ 7,000.00	$10,645.00	$ 10,645.00	$7,500.00	$ 7,500.00	$15,000.00	$ 15,000.00	$3,000.00	$ 3,000.00	$10,000.00	$ 10,000.00
22 13 19	PROCESS VALVES AND APPURTENANCES	L SUM	1	$45,000.00	$ 45,000.00	$20,480.00	$ 20,480.00	$42,300.00	$ 42,300.00	$20,000.00	$ 20,000.00	$60,000.00	$ 60,000.00	$95,000.00	$ 95,000.00
22 13 13	PROCESS PIPING AND APPURTENANCES	L SUM	1	$60,000.00	$ 60,000.00	$66,417.00	$ 66,417.00	$28,500.00	$ 28,500.00	$70,000.00	$ 70,000.00	$100,000.00	$ 100,000.00	$35,000.00	$ 35,000.00
22 13 29	SUBMERSIBLE SOLIDS HANDLING PUMPS AND APPURTENANCES	L SUM	1	$75,000.00	$ 75,000.00	$73,722.00	$ 73,722.00	$93,600.00	$ 93,600.00	$100,000.00	$ 100,000.00	$80,000.00	$ 80,000.00	$107,000.00	$ 107,000.00
22 14 19	SUMP PUMP SYSTEMS	L SUM	1	$2,500.00	$ 2,500.00	$7,332.00	$ 7,332.00	$8,600.00	$ 8,600.00	$8,000.00	$ 8,000.00	$3,000.00	$ 3,000.00	$7,000.00	$ 7,000.00
26 05 00	ELECTRICAL WIRES AND CABLES	L SUM	1	$8,500.00	$ 8,500.00	$7,424.00	$ 7,424.00	$15,300.00	$ 15,300.00	$10,000.00	$ 10,000.00	$6,000.00	$ 6,000.00	$21,000.00	$ 21,000.00
26 05 26	GROUNDING	L SUM	1	$5,100.00	$ 5,100.00	$5,760.00	$ 5,760.00	$6,000.00	$ 6,000.00	$8,000.00	$ 8,000.00	$4,000.00	$ 4,000.00	$10,000.00	$ 10,000.00
26 05 33	ELECTRICAL CONDUIT	L SUM	1	$37,000.00	$ 37,000.00	$33,920.00	$ 33,920.00	$43,500.00	$ 43,500.00	$35,000.00	$ 35,000.00	$37,000.00	$ 37,000.00	$10,000.00	$ 10,000.00
26 20 00-1	ELECTRIC SERVICE AND DISTRIBUTION	L SUM	1	$35,000.00	$ 35,000.00	$44,800.00	$ 44,800.00	$23,800.00	$ 23,800.00	$20,000.00	$ 20,000.00	$15,000.00	$ 15,000.00	$47,000.00	$ 47,000.00
26 20 00-2	ELECTRIC SERVICE UTILITY FEE	ALLOWANCE	1	$10,000.00	$ 10,000.00	$10,000.00	$ 10,000.00	$10,000.00	$ 10,000.00	$10,000.00	$ 10,000.00	$10,000.00	$ 10,000.00	$10,000.00	$ 10,000.00
26 36 20	NATURAL GAS ENGINE GENERATOR	L SUM	1	$60,000.00	$ 60,000.00	$92,384.00	$ 92,384.00	$57,000.00	$ 57,000.00	$100,000.00	$ 100,000.00	$65,000.00	$ 65,000.00	$100,000.00	$ 100,000.00
31 23 16-1	EARTHWORK	L SUM	1	$6,600.00	$ 6,600.00	$8,500.00	$ 8,500.00	$18,900.00	$ 18,900.00	$25,000.00	$ 25,000.00	$1,000.00	$ 1,000.00	$72,000.00	$ 72,000.00
31 41 00	TEMPORARY SOIL RETENTION SYSTEMS	L SUM	1	$75,000.00	$ 75,000.00	$92,625.00	$ 92,625.00	$48,000.00	$ 48,000.00	$75,000.00	$ 75,000.00	$1,000.00	$ 1,000.00	$78,000.00	$ 78,000.00
32 13 13-1	CLASS B PATCHES, 8 INCH	SQ YD	40	$300.00	$ 12,000.00	$250.00	$ 10,000.00	$300.00	$ 12,000.00	$500.00	$ 20,000.00	$170.00	$ 6,800.00	$200.00	$ 8,000.00
32 13 13-2	CONCRETE SIDWALK, 5"	SQ FT	394	$40.00	$ 15,760.00	$25.00	$ 9,850.00	$20.00	$ 7,880.00	$20.00	$ 7,880.00	$30.00	$ 11,820.00	$20.00	$ 7,880.00
32 13 13-3	CURB AND GUTTER REPLACEMENT	FOOT	172	$100.00	$ 17,200.00	$47.00	$ 8,084.00	$75.00	$ 12,900.00	$75.00	$ 12,900.00	$64.00	$ 11,008.00	$61.00	$ 10,492.00
32 92 00-1	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	300	$9.00	$ 2,700.00	$13.00	$ 3,900.00	$15.00	$ 4,500.00	$15.00	$ 4,500.00	$13.00	$ 3,900.00	$15.00	$ 4,500.00
32 92 00-2	SEEDING CLASS 1A	ACRE	0.1	$10,000.00	$ 1,000.00	$13,000.00	$ 1,300.00	$5,000.00	$ 500.00	$11,000.00	$ 1,100.00	$50,000.00	$ 5,000.00	$5,000.00	$ 500.00
32 92 00-3	MULCH, METHOD 3	ACRE	0.1	$10,000.00	$ 1,000.00	$13,000.00	$ 1,300.00	$5,000.00	$ 500.00	$11,000.00	$ 1,100.00	$50,000.00	$ 5,000.00	$5,000.00	$ 500.00
33 05 19	DUCTILE IRON FORCE MAIN, 6-INCH	FOOT	19	$300.00	$ 5,700.00	$850.00	$ 16,150.00	$750.00	$ 14,250.00	$800.00	$ 15,200.00	$350.00	$ 6,650.00	$1,000.00	$ 19,000.00
33 09 30	PUMP CONTROL PANEL FOR LIFT STATION	L SUM	1	$150,000.00	$ 150,000.00	$273,586.00	$ 273,586.00	$337,800.00	$ 337,800.00	$300,000.00	$ 300,000.00	$277,000.00	$ 277,000.00	$350,000.00	$ 350,000.00
33 31 11	8" PVC C900 (DR18) SANITARY SEWER	FOOT	27	$500.00	$ 13,500.00	$820.00	$ 22,140.00	$600.00	$ 16,200.00	$1,400.00	$ 37,800.00	$1,000.00	$ 27,000.00	$1,000.00	$ 27,000.00
TOTAL BASE BID					**$ 1,323,185.00**		**$ 1,214,438.00**		**$ 1,336,105.00**		**$ 1,470,732.00**		**$ 1,524,530.00**		**$ 1,729,782.00**

ALTERNATIVE BID				ENGINEERS ESTIMATE		MARTAM CONSTRUCTION		JOHN NERI CONSTRUCTION		PERFORMANCE CONS. & ENG.		BOLDER CONTRACTORS		H. LINDEN & SONS	
ITEM	PAY ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	ITEM COST	UNIT COST	ITEM COST	UNIT COST	ITEM COST	UNIT COST	ITEM COST	UNIT COST	ITEM COST	UNIT COST	ITEM COST
32 13 13-1	CLASS B PATCHES, 8 INCH	SQ YD	44	$300.00	$ 13,200.00	$250.00	$ 11,000.00	$300.00	$ 13,200.00	$235.00	$ 10,340.00	$170.00	$ 7,480.00	$200.00	$ 8,800.00
32 13 13-2	CONCRETE SIDWALK, 5"	SQ FT	75	$40.00	$ 3,000.00	$25.00	$ 1,875.00	$20.00	$ 1,500.00	$25.00	$ 1,875.00	$30.00	$ 2,250.00	$20.00	$ 1,500.00
32 13 13-3	CURB AND GUTTER REPLACEMENT	FOOT	10	$100.00	$ 1,000.00	$47.00	$ 470.00	$75.00	$ 750.00	$79.00	$ 790.00	$64.00	$ 640.00	$61.00	$ 610.00
33 05 19	DUCTILE IRON FORCE MAIN, 6-INCH	FOOT	40	$500.00	$ 20,000.00	$850.00	$ 34,000.00	$250.00	$ 10,000.00	$300.00	$ 12,000.00	$350.00	$ 14,000.00	$500.00	$ 20,000.00
ALTERNATIVES ITEMS SUBTOTAL					$ 37,200.00		$ 47,345.00		$ 25,450.00		$ 25,005.00		$ 24,370.00		$ 30,910.00
TOTAL BASE BID					$ 1,323,185.00		$ 1,214,438.00		$ 1,336,105.00		$ 1,470,732.00		$ 1,524,530.00		$ 1,729,782.00
TOTAL ALTERNATIVE BID					**$ 1,360,385.00**		**$ 1,261,783.00**		**$ 1,361,555.00**		**$ 1,495,737.00**		**$ 1,548,900.00**		**$ 1,760,692.00**

VILLAGE OF ARLINGTON HEIGHTS
INC. 1887

Village Board of Trustees
4/20/2026

Item: Resolution Approving an Agreement for Professional Engineering Services for the Regency Court Lift Station Reconstruction

Department: Public Works & Engineering

Item Description:

The 2026 Capital budget includes $1,200,000 for the rehabilitation of the Regency Lift Station, located at Regency Court West, which includes required construction observation services. The Village currently maintains and operates twelve different infrastructure system lift stations, (six for stormwater and six for sanitary/combined sewer).

In 2024, staff worked with a consulting engineer to prioritize and evaluate the condition of select lift stations in the system and identify those in greatest need of attention. This information was used to develop comprehensive budgets and a long-term strategy over twenty (20) years to address these important facilities in the Village's utility system, systematically over time.

The Regent Lift Station was constructed in 1963 and serves the Regent Park residential area, including 230 individual parcels, consisting of single family, multi-family, and apartment-complex properties. To date, the station has not been updated from its original design construction. This project will greatly reduce safety risks for staff, and will also update and improve the system control panel and provide a back-up power supply in the event of emergencies.

Included in the scope of services to be provided are; construction observation, surveying, IEPA and IDPH regulation oversight, planning assistance, funding investigation, and other various engineering-related activities.

Ciorba Group Consulting Engineers was the selected professional services firm from a staff-initiated Qualification Based Selection process that included different highly qualified engineering firms.

Funding for these services is available in Account No. 505-9001-550250. Sufficient funding is available for this portion of the project, in this account as a result of savings on other projects.

RECOMMENDATION

It is recommended that the Village Board approve a Resolution awarding a professional services agreement for construction observation services for the Regency Court Lift Station Reconstruction to Ciorba Group Consulting Engineers, Chicago, Illinois, in the amount of $86,766.46 and authorize the execution of the necessary documents.

ATTACHMENTS:

1. 20260420_RegencyLiftStationEngineeringServices

VILLAGE OF ARLINGTON HEIGHTS

RESOLUTION NO. _____

A RESOLUTION APPROVING AN AGREEMENT FOR
PROFESSIONAL ENGINEERING SERVICES TO
CIORBA GROUP CONSULTING ENGINEERS OF CHICAGO, ILLINOIS

WHEREAS, the Village desires to retain a qualified firm to provide Engineering Services, and other related Engineering Services associated with the 2026 Regency Lift Station Reconstruction Project (*"Services"*); and

WHEREAS, the Village requested qualifications for qualified firms to complete the Services; and

WHEREAS, the Village has determined that the proposal submitted by Ciorba Group Consulting Engineers, of Chicago, Illinois (*"Consultant"*), is the most appropriate for the provision of the Services; and

WHEREAS, the Village and Consultant desire to enter into an agreement for the provision of the Services by Consultant (*"Agreement"*); and

WHEREAS, the Village President and Board of Trustees have determined that entering into the Agreement with Consultant will serve and be in the best interest of the Village;

NOW, THEREFORE, BE IT RESOLVED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF ARLINGTON HEIGHTS, COOK COUNTY, ILLINOIS, as follows:

SECTION 1. RECITALS. The facts and statements contained in the preamble to this Resolution are found to be true and correct and are hereby adopted as part of this Resolution.

SECTION 2. APPROVAL OF AGREEMENT. The Board of Trustees hereby approves the Agreement by and between the Village and Consultant, in substantially the form attached to this Resolution as Exhibit A, and in a final form to be approved by the Village Manager and the Village Attorney.

SECTION 3. EXECUTION OF AGREEMENT. The Village Manager and the Village Clerk are hereby authorized and directed to execute and attest, on behalf of the Village, the Agreement upon receipt by the Village Clerk of at least one original copy of the Agreement executed by Consultant; provided, however, that if the executed copy of the Agreement is not received by the Village Clerk within 60 days after the effective date of this Resolution, then this authority to execute and attest will, at the option of the President and Board of Trustees, be null and void.

SECTION 4. EFFECTIVE DATE. This Resolution will be in full force and effect from and after its passage and approval as provided by law.

[SIGNATURE PAGE FOLLOWS]

AYES:

NAYS:

PASSED AND APPROVED THIS ___ day of _____, 20__

_____
Village President

ATTEST:

_____
Village Clerk

EXHIBIT A

AGREEMENT

CiorbaGroup
CONSULTING ENGINEERS

February 11, 2026

Mr. Scott Schweda, W.O.
Utility Superintendent
Village of Arlington Heights
222 N. Ridge Avenue
Arlington Heights, Illinois 60005

Subject: **Regency Court Lift Station Reconstruction**
Proposal for Construction Engineering Services

Dear Mr. Schweda:

Per your request, Ciorba Group, Inc. has prepared a proposal for **Construction Engineering Services for the Regency Court Lift Station Reconstruction**. Our Scope of Services is defined in Exhibit A. The engineering fee for the construction phase is not to exceed **$86,766.46**. Actual time on the project will be invoiced. A breakdown of the fee is provided in Exhibit B.

Fees in this proposal shall remain fixed until December 31, 2026. Should you have any questions please contact me at 773-892-9795. We appreciate the opportunity work with the Village on this important public improvement project.

Sincerely,

CIORBA GROUP, INC.

Luke Mattson, P.E.
Water Resources Project Manager II

Enclosures: Exhibit A – Scope of Services
Exhibit B – Fee Breakdown

8725 W. Higgins Road, Suite 600
Chicago, IL 60631
P 773.775.4009
F 773.775.4014
ciorba.com

EXHIBIT A – SCOPE OF SERVICES

SCOPE OF SERVICES

Summary of Personnel / General Inspection Approach

Luke Mattson, PE, will serve as the Resident Engineer (RE). Submittal review, design changes, contractor RFIs, pay application review, and client coordination will be handled by the RE. Luke will support the **full-time Resident Inspector (RI)**, Justin Joplin. The RI will provide an on-site presence to review conformance with the design. Luke developed the project design and routinely designs and manages the construction of Ciorba's lift station projects.

Preconstruction Conference

The RE and RI will attend the preconstruction meeting along with Village Public Works staff; Contractor and his subcontractors; other representatives as required. Meeting topics include progress schedule, construction staging, material and equipment storage, demolition techniques, equipment submittals, traffic control, subcontractor roles, and submittal for payment. The RE, RI, and the Contractor's 24-hour emergency numbers will also be made available to participants. The RE will prepare meeting minutes and distribute them to all participants.

Shop Drawing Review

Ciorba will provide review services for information and data submitted by the Contractor for materials and equipment. Ciorba will log, stamp, and track all submittals received, and identify outstanding submittals. All submittals will be reviewed for compliance with the intent of the Contract documents. Submittal mark-ups and review letters will be generated for each submittal in a timely manner and e-mailed to the contractor with copies to the Village. Ciorba will notify the Village of any substitutions, deficiencies, or changes in the submitted materials when compared to the contract documents. An assessment of any deviations will be made by Ciorba and presented to the Village with a request for acceptance or denial. Ciorba will advise the Village of any disapprovals in submittals due to non-conformance with the intent of the specifications.

Construction Observation and Documentation

Lead time will be required for project components such as the new pumps, and control panels. Although a full construction contract period of 38 weeks is anticipated for the station, it has been estimated that actual full-time site inspection will be required for 10 weeks once the equipment is delivered. The RE will be on site weekly and will be the leading inspector for milestone inspections, including the start-up inspection when the pumps, generator, controls, and power failure scenarios are reviewed.

Construction will be monitored for conformance with the contract documents, Village, and MWRDGC requirements. If there are any unforeseen conditions or issues that develop, Ciorba's design engineers will be available to provide options to the Village to mitigate costly delays. Inspector Daily Reports will be completed on Ciorba standard forms. Ciorba will also maintain a diary describing the work accomplished each day and will document all work with photographs.

As an on-site extension of the Village, Ciorba will maintain close communication with the Village's designated representative. This will be accomplished by as-needed daily communication and progress meetings chaired by Ciorba every other week once the contractor is mobilized. Invitees to the weekly meeting will include the Village's designated representative, other Village staff such as Public Works personnel, the Contractor and his subcontractors, and MWRDGC staff (as needed). Meetings will be held on-site.

EXHIBIT A – SCOPE OF SERVICES

Weekly Reports

The RI will maintain daily reports describing the work accomplished each day. Weekly progress reports will be prepared using the diary information and provided to both Arlington Heights and the contractor. Reports will include what and where work was performed by each contractor. Weather will be tracked along with manpower, equipment used, and the controlling work item. Traffic control will be noted along with visitors and meetings held.

Material Testing

Concrete QA services are required on this project for the following construction items:

Concrete Sidewalk, 5" = 300 SF
Curb and Gutter: 150 LF
Class B Patches: 37 SY
Generator Pad: 50 CF
Control Panel Pad: 40 CF

Ciorba Group has included Soil and Material Consultants (SMC) as our sub-consultant for these services. Work will be conducted based on the IDOT QC/QA program.

Pay Requests

Once every month Ciorba will provide quantities to the contractor and recommend payment of contract work by the Village. No payment for work will be allowed until the IDOT material and testing requirements have been satisfied. Testing and material requirements will be monitored according to the contract documents and IDOT Project Procedures Guide (PPG).

Change Orders

Ciorba focuses on providing solutions that minimize delay and added cost when adjustments are needed to the original design. We pride ourselves on being active problem solvers when challenges arise. Concerns will be presented to the Village of Arlington Heights with alternatives and a recommended course of action. Ciorba understands that providing timely solutions and obtaining proper approvals is essential to keeping the project moving forward on schedule. Added costs will be tracked, audited, and projected to determine if the project will be on budget.

Public Stakeholder Communication

The RE and RI will communicate with public stakeholders by addressing any concerns or issues of the residents. At minimum, this will consist of answering phone calls, discussing items on site, receiving and sending e-mails, and following up communication. Issues will be resolved in a timely manner as determined by the Village and situational needs.

Progress Meetings

Ciorba will prepare and distribute the progress meeting minutes for all progress meetings. Meetings will be held in person. Invitees to the progress meeting will include the Village's designated representative and the contractor. Topics will include work completed, a look ahead schedule, pay estimates, extra work, traffic control, erosion control, submittals, RFI's, and any other discussion items relevant to the contract. Contract progress will be closely monitored, and the contractor notified if they are falling behind schedule.

EXHIBIT A – SCOPE OF SERVICES

Project Closeout and Record Drawings

Ciorba will maintain a punch list of construction items that require correction before final acceptance. The site will be inspected for completion of punch list items and the Contractor will be notified of any incomplete items. After the punch list is completed, site inspections will be conducted by Ciorba with the Village and the Contractor.

Draft Operation and Maintenance manuals and warranties will be reviewed by the RE for completeness, with comments provided for the contractor based on this review. Final version will be received by Ciorba Group and transferred to the Village.

Final documentation papers for project will be prepared for acceptance by the Village. This includes all material certifications and testing results, final quantity measurements, balancing change orders and final pay estimates.

As construction proceeds all modifications to the plans will be measured and documented for inclusion in the final construction record drawings. Drawings will be provided to the Village showing all field changes and final contract quantities used.

PROJECT SCHEDULE

A Notice to Proceed for construction is estimated on or around March 30th. A 38-week contract period is expected including an 8-week submittal review period and 20 week procurement period. This long lead time is driven by the fabrication of the control panel. Heavy construction is anticipated to begin in October of 2026. Substantial completion is estimated in early December 2026 with final completion following 20 days later at the end of December 2026.

EXHIBIT B – COST ESTIMATE OF CONSULTANT SERVICES

Ciorba Group proposes the following fees to complete the Regency Court Lift Station Phase III Construction Engineering Services:

Regency Court Lift Station	Fee
Startup and Preconstruction Meeting	$2,694.00
Shop Drawing Review	$8,370.00
Part Time Construction Observation and Closeout	$69,116.46
Project Management & Administration	$636.00
Direct Costs	$3,855.00
Material Testing	$2,095.00
Construction Engineering Total:	**$86,766.46**

The tables on the following pages provide detailed staff hour and direct cost estimates as well as current staff hourly rates.

This estimate is based upon an assumed 10 weeks of construction activities on the site.

		Activity		Grand Total	Project Manager III	Project Manager II	Engineer II
		TOTAL		**518**	**4**	**93**	**421**
8.		**Construction Engineering / Administration**	**Task Total:**	**510**		**89**	**421**
	0810	**Construction Startup**	**Subtotal:**	**14**		**6**	**8**
		Set Up Project Documentation		4			4
		Pre-Construction Conference Preparation		4		2	2
		Pre-Construction Conference Attendance		4		2	2
		Pre-Construction Conference Meeting Minutes		2		2	
	0820	**Construction Observation / Documentation**	**Subtotal:**	**430**		**30**	**400**
		Resident Engineer (10 weeks x 3 hrs/week)		30		30	
		Construction Engineer (10 weeks x 5 days/week x 8 hrs/day)		400			400
	0830	**Construction Close-out**	**Subtotal:**	**12**		**4**	**8**
		Plan Sheets - As Built		12		4	8
	0840	**Construction Assistance**	**Subtotal:**	**54**		**49**	**5**
		Assistance During Bidding		4		4	
		Assistance During Construction		20		15	5
		Contractor Submittals Review		30		30	
10.		**Project Management & Administration**	**Task Total:**	**8**	**4**	**4**	
	1010	**Project Management & Administration**	**Subtotal:**	**8**	**4**	**4**	
		Project Administration		4	4		
		Project Management		4		4	

Cost Estimate of Consultant Services (Direct Labor Multiple)

Firm Ciorba Group, Inc. Date 02/11/26

ITEM	MANHOURS (A)	PAYROLL (B)	(3+R) TIMES PAYROLL (C)	DIRECT COSTS (D)	SERVICES BY OTHERS (E)	TOTAL (C+D+E)	% OF GRAND TOTAL
Construction Engineering / Administration	510	$ 26,169.50	$ 78,508.50	$ 3,855.00		$ 82,363.50	95%
Project Management & Administration	8	$ 769.32	$ 2,307.96	$ -		$ 2,307.96	3%
Soil and Material Consultants					$ 2,095.00	$ 2,095.00	2%
TOTALS	518	$ 26,938.82	$ 80,816.46	$ 3,855.00	$ 2,095.00	$ 86,766.46	100%

DIRECT COSTS SUMMARY

Construction Engineering / Administration

Description	Unit	Unit Cost	Quantity	Extended Cost	
Vehicle (mileage)	mile	$ 0.700	400	$ 280.00	
Vehicle (day)	day	$ 65.00	55	$ 3,575.00	
				$ 3,855.00	**Total**

VILLAGE OF ARLINGTON HEIGHTS
INC. 1887

Village Board of Trustees
4/20/2026

Item: Resolution Approving a Contract Extension for Custodial Services of Municipal Buildings

Department: Public Works & Engineering

Item Description:

The 2026 approved budget for Building Maintenance Services includes a line item of $271,500 for custodial services at eight primary municipal facilities. These locations have been designated as: Village Hall, Police Department, Senior Center, Train Station (Downtown), Train Station (Arlington Park), Fire Station #2 Administration, Public Works, and the Historical Museum.

Historically, the Village utilized three contracts for the custodial services at municipal facilities. In 2023, staff combined the three contracts to streamline performance feedback, manage consistency in service, simplify billing, and find cost savings. Further, the scope of services within this contract clearly defines service intervals and times specific to each of the eight Village facilities, since each building serves a unique function.

On March 20, 2023, a one-year contract with five possible one-year extensions was approved. The contractor has offered to extend the contract with an increase of 2.5%, which is within contract terms. Staff has been satisfied with the custodial services provided by Crystal Maintenance Service and recommends the approval of the third of five one-year extensions.

Funds are available for these services in Account No. 101-7101-521110.

RECOMMENDATION

It is recommended that the Village Board approve the Resolution to award a one-year contract extension for Custodial Services of Municipal Buildings to Crystal Maintenance Service of Mount Prospect, Illinois and the requested increase in accordance with the original contract terms and execute the necessary documents.

ATTACHMENTS:

1. 20260420_BuildingCustodialServicesExtension

VILLAGE OF ARLINGTON HEIGHTS

RESOLUTION NO. _____

A RESOLUTION APPROVING AN EXTENSION OF
THE CUSTODIAL SERVICES OF MUNICIPAL BUILDINGS CONTRACT
WITH CRYSTAL MAINTENANCE, OF MOUNT PROSPECT, ILLINOIS

WHEREAS, on March 20, 2023, the Village entered into a contract with Crystal Maintenance, of Mount Prospect, Illinois (*"Contractor"*), for Custodial Services of Municipal Buildings services (*"Contract"*); and

WHEREAS, the Contract allows the Village and the Contractor to renew the Contract for up to five additional one-year terms; and

WHEREAS, on March 4, 2024, the Village Board of Trustees approved the renewal of the Contract for the first additional one-year term, for year 2024 to 2025; and

WHEREAS, on February 18, 2025, the Village Board of Trustees approved the renewal of the Contract for the second one-year term, for year 2025 to 2026; and

WHEREAS, the Village and the Contractor now desire to renew the Contract for the third additional one-year term, for year 2026 to 2027; and

WHEREAS, the Village President and Board of Trustees have determined that renewing the Contract with the Contractor will serve and be in the best interest of the Village and its residents;

NOW, THEREFORE, BE IT RESOLVED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF ARLINGTON HEIGHTS, COOK COUNTY, ILLINOIS, as follows:

SECTION 1. RECITALS. The facts and statements contained in the preamble to this Resolution are found to be true and correct and are hereby adopted as part of this Resolution.

SECTION 2. APPROVAL OF RENEWAL. The Board of Trustees hereby approves the renewal of the Contract in substantially the form attached to this Resolution as Exhibit A (*"Renewal"*), and in a final form and substance acceptable to the Village Manager and Village Attorney.

SECTION 3. EXECUTION OF RENEWAL. The Village Manager and the Village Clerk are hereby authorized and directed to execute and attest, on behalf of the Village, the Renewal of the Contract upon receipt by the Village Clerk of at least one original copy of the Renewal of the Contract executed by Contractor; provided, however, that if the executed copy of the Renewal of the Contract is not received by the Village Clerk within 30 days after the effective date of this Resolution, then this authority to execute and attest will, at the option of the President and Board of Trustees, be null and void.

SECTION 4. EFFECTIVE DATE. This Resolution will be in full force and effect from and after its passage and approval as provided by law.

[SIGNATURE PAGE FOLLOWS]

AYES:

NAYS:

PASSED AND APPROVED THIS ___ day of _____, 20__.

_____
Village President

ATTEST:

_____
Village Clerk

EXHIBIT A

RENEWAL

EXTENSION TO THE AGREEMENT
ENTERED INTO BY AND BETWEEN
THE VILLAGE OF ARLINGTON HEIGHTS AND CRYSTAL MAINTENANCE

THIS EXTENSION TO THE ORIGINAL AGREEMENT made on this 20th day of April, 2026 (hereinafter referred to as the "Extension") to the Agreement entered into on or about March, 20, 2023 by and between the Village of Arlington Heights (hereinafter referred to as the "Village") whose principal place of business is located at 33 S. Arlington Heights Road, Arlington Heights, Illinois 60005 and Crystal Maintenance (hereinafter referred to as the "Company") whose principle place of business is located at 1699 Wall Street, Suite 112, Mount Prospect, Illinois 60056 (collectively referred to herein as the "Parties") hereby amends the agreement and extends the services of May 1, 2026 through March 31, 2027.

NOW, THEREFORE, for and in consideration of the mutual covenants herein contained, the Parties hereto extend the agreement as follows:

1. The Parties agree to extend the term of the original Agreement for an additional period of time to terminate on March 31, 2027 unless mutually agreed to by the Parties to extend the Agreement for an additional period of time.

2. The Parties agree that the Crystal Maintenance's revised fee schedule is attached hereto.

3. Unless expressly modified in this Extension, the provisions of the Agreement remain in full force and effect. If any provision of this Extension conflicts with the Agreement, the terms and conditions of the Extension shall control.

4. This Extension shall become effective as of the date of the last signature below, this Extension may be executed in any number of counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument, and any signatures to counterparts may be delivered by facsimile or other electronic transmission and shall have the same force and effect as original signatures.

IN WITNESS WHEREOF, the parties have executed this Extension to the Agreement as of the day and year first above written.

Village of Arlington Heights: _____ *(Company)*

_____ _____
Village President

ATTEST:

_____
Village Clerk

CRYSTAL MAINTENANCE PLUS, CORP.

1699 Wall St., Suite 112 – Mt. Prospect, IL 60056 – (847) 228 – 6555 – (847) 228 – 6588 fax

April 8th 2026

Mr. John Giannetti
Village of Arlington Heights

Re: Janitorial Services Contract

Dear Mr. John Giannetti

I would like to personally thank you for giving **CRYSTAL MAINTENANCE PLUS, CORP.** the opportunity to provide janitorial services for the Village of Arlington Heights.

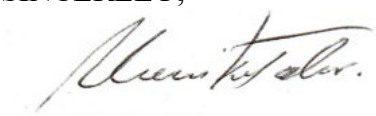
Regarding your request, we would like to extend our contract for an additional 1 year in the amount of $19,640 per month. The updated monthly price includes a 2.5% increase for labor costs and the additional service of the Police Department Fitness Center and the Arlington Heights Historical Museum second floor Administrative Service Area

The effective date will be May 1st, 2026, through March 31, 2027 and it will be under the same terms and conditions as originally stated in Contractual Custodial Services.

If you have any questions or need my assistance, do not hesitate to call at your convenience.

Thank you again for your time and consideration.
Your business is very important to us.

SINCERELY,



Monika Talar
President
Crystal Maintenance Plus, Corp.

VILLAGE OF ARLINGTON HEIGHTS
INC. 1887

Village Board of Trustees
4/20/2026

Item: Resolution Approving the Award of a Contract for Trenchless Rehabilitation and Maintenance of Pipeline Infrastructure

Department: Public Works & Engineering

Item Description:

The 2026 Capital budget includes $500,000 for sewer rehabilitation, which includes "trenchless rehabilitation", commonly referred to as "Cured in Place Pipe" (CIPP) Sewer Lining. CIPP lining is a non-destructive method of rehabilitating storm and sanitary sewers that have reached their useful life or are showing signs of failure. The cured-in place process "sleeves" the inside of older sewers with a new epoxy fiberglass resin. This method of rehabilitation is normally applied to sewers with significant cracking or of the presence of failures at locations where open excavation repairs are too expensive, inaccessible, or unsafe.

This year's project is focused on several rear yard sanitary sewers that have visible cracking and are inaccessible. This work also includes reinstating the service connections to each home. The Village has been rehabilitating sanitary sewers through CIPP lining for twelve years. This program is part of a multi-year program that is planned to increase annually to rehabilitate the Village's aging system. This year's program will complete 0.53% of the system.

BIDDER TOTAL Hoerr Construction, Peoria, IL $494,215.00

The Village has successfully worked with Hoerr Construction over that last 5 years.

While this is normally a municipal partnering initiative project, Staff regularly pursues avenues for funding opportunities that benefit the Village. Staff was able to identify a better pricing opportunity through the Omnia Partners cooperative purchasing program contract. Omnia Partners is a nationwide joint purchasing cooperative similar to Northwest Municipal Conference (NWMC) that uses multiple government agencies and collaborative purchasing to obtain more competitive bid pricing.

Hoerr Construction, of Goodfield, IL, holds a three-year contract with the Omnia Partners for Trenchless Rehabilitation and Maintenance of Pipeline, with two possible one-year extensions. The contract was originally awarded in November 2023. DuPage County was the leading entity who organized the bid, and the Vendor has agreed to extend the contract prices to the Village. This would be the third year of that contract, which will afford the Village the opportunity to extend this contract two more years, should the Village Board choose.

Funding is available in account 505-9001-550250 (SW9001).

RECOMMENDATION

It is recommended that the Village Board approve the Resolution authorizing a one-year contract for the 2026 CIP Trenchless Rehabilitation and Maintenance of Pipeline

Infrastructure at the bid prices to, Hoerr Construction of Goodfield, Illinois, up to the budgeted amount.

ATTACHMENTS:

1. 20260420_TrenchlessRehabMaintPipelineInfrastructure

VILLAGE OF ARLINGTON HEIGHTS

RESOLUTION NO. _____

A RESOLUTION APPROVING THE AWARD OF A CONTRACT FOR TRENCHLESS REHABILITATION AND MAINTENANCE OF PIPELINE INFRASTRUCTURE TO HOERR CONSTRUCTION INC, GOODFIELD IL 61742

WHEREAS, Article VII, Section 10 of the Constitution of the State of Illinois, and the Intergovernmental Cooperation Act, 5 ILCS 220/1 et seq., authorize and encourage intergovernmental cooperation; and

WHEREAS, the Village is eligible to participate in the OMNIA Partners, a purchasing cooperative that permits local governments to purchase and lease commodities and services according to contracts negotiated by OMNIA Partners, resulting in significant savings for the Village; and

WHEREAS, the Public Works & Engineering has identified the need to procure Trenchless Rehabilitation and Maintenance of Pipeline Infrastructure; and

WHEREAS, OMNIA sought bids for the award of the contract for the purchase of the Trenchless Rehabilitation and Maintenance of Pipeline Infrastructure; and

WHEREAS, OMNIA identified Hoerr Construction, of Goodfield Il, 61742, as the low responsible bidder for the Purchase Contract; and

WHEREAS, the Village now desires to purchase the Trenchless Rehabilitation and Maintenance of Pipeline Infrastructure, in a total amount not to exceed $500,000; and

WHEREAS, the Village President and Board of Trustees have determined that it will serve and be in the best interest of the Village to purchase the Trenchless Rehabilitation and Maintenance of Pipeline Infrastructure from Hoerr Construction, in a total amount not to exceed $500,000, in accordance with OMNIA and the Purchase Contract;

NOW, THEREFORE, BE IT RESOLVED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF ARLINGTON HEIGHTS, COOK COUNTY, ILLINOIS, as follows:

SECTION 1. RECITALS. The facts and statements contained in the preamble to this Resolution are found to be true and correct and are hereby adopted as part of this Resolution.

SECTION 2. APPROVAL OF PURCHASE. The President and Board of Trustees hereby approve the purchase by the Village of the Trenchless Rehabilitation and Maintenance of Pipeline Infrastructure from Hoerr, in a total amount not to exceed $500,000, in accordance with the OMNIA and the Purchase Contract, is hereby approved.

SECTION 3. EXECUTION OF REQUIRED DOCUMENTATION. The Village Manager and the Village Clerk are hereby authorized to execute and attest, on behalf of the Village, all documents necessary to complete the purchase authorized pursuant to Section 2 of this Resolution.

SECTION 4. EFFECTIVE DATE. This Resolution will be in full force and effect from and after its passage and approval as provided by law.

AYES:

NAYS:

PASSED AND APPROVED THIS ___ day of _____, 20__.

_____
Village President

ATTEST:

_____

Village Clerk

DUPAGE COUNTY, IL

Contract # 23-065-PW (3)

for

Trenchless Rehabilitation and Maintenance of Pipeline Infrastructure

with

Hoerr Construction, Inc.

Effective: February 13, 2024

The following documents comprise the executed contract between the DuPage County, IL and Hoerr Construction, Inc., effective February 13, 2024:

I. Vendor Contract
II. Request for Proposal and Bid Information
III. Offeror’s Response to the RFP, incorporated by reference

CONTRACT 23-065-PW BETWEEN HOERR CONSTRUCTION, INC
AND THE COUNTY OF DUPAGE

THIS AGREEMENT is entered into this 13th day of February, 2024, between the County of DuPage, Illinois a body corporate and politic, located at 421 North County Farm Road, Illinois, 60187-3978 (hereinafter referred to as the COUNTY), and Hoerr Construction, INC licensed to do business in the State of Illinois, located at 1416 County Rd. 200N, Goodfield, Illinois 61742 (hereinafter referred to as the CONTRACTOR).

RECITALS

WHEREAS, the COUNTY requires the goods and/or services specified in Bid 23-065-PW for its Department of Public Works, located at the DuPage County Center, 421 North County Farm Road, Wheaton, Illinois 60187; and

WHEREAS, the CONTRACTOR is the vendor selected pursuant to the bid process and is willing to perform under the terms of the Bid and this Contract.

NOW, THEREFORE, in consideration of the premises and mutual covenants contained herein, the parties agree that:

1.0 CONTRACT DOCUMENTS

1.1 This Contract includes all of the following component parts, all of which are fully incorporated herein and made a part of the obligations undertaken by the parties:

- 1.1.a Project Information
- 1.1.b Instructions to Bidders
- 1.1.c General Conditions
- 1.1.d Special Conditions
- 1.1.e Insurance/Bonding Requirements and Certificates
- 1.1.f Bid Form (including Certification/Proposal, Signature Affidavit including Proposal Pricing)
- 1.1.g Specifications (including any addenda, interpretations and approved exceptions)
- 1.1.h Exhibits
- 1.1.i County Purchase Order

1.2 All documents are or will be on file in the office of the Procurement Services Division, DuPage Center, 421 North County Farm Road, Room 3-400, Wheaton, Illinois 60187.

1.3 In the event of a conflict between any of the above documents, the document control from top to bottom, i.e., "a" control over "b".

2.0 DURATION OF THIS CONTRACT

2.1 Unless terminated as provided in the Bid Invitation, the term of this Contract shall be a three (3) year period beginning on 02/13/2024 and continuing through 02/12/2027.

2.2 The Contract term is subject to renewal per the Bid Invitation Specifications. In no event, shall the term plus renewals exceed five (5) years.

3.0 TERMINATION

3.1 Except as otherwise set forth in this AGREEMENT, County shall have the right to terminate this AGREEMENT for any cause or without cause thirty (30) days after having served written notice upon the Contractor, except in the event of Contractor's insolvency, bankruptcy, or receivership, in which case termination shall be effective immediately upon receipt of notice.

3.2 Upon such termination, the liabilities of the parties to this AGREEMENT shall cease, but they shall not be relieved of the duty to perform their obligations up to the date of termination, or to pay for deliverables tendered prior to termination. There shall be no termination expenses.

3.3 Upon termination of this AGREEMENT, all data, work products, reports and documents produced, because of this AGREEMENT shall become the property of the COUNTY. Further, Vendor shall provide all deliverables within fourteen (14) days of termination in accordance with the other provisions of this AGREEMENT.

4.0 BID PRICES AND PAYMENT

4.1 The Contractor shall provide the required goods and or services described in the Bid Specifications for the prices quoted on the Bid Form.

4.2 The County shall make payment pursuant to the Illinois Local Government Prompt Payment Act, except that no payment shall be approved where the Contractor has failed to comply with certified payroll requirements of the Illinois Prevailing Wage Act or Davis Bacon Act.

5.0 AMENDMENTS

5.1 This Contract may be amended by agreement of both parties.

5.2 All amendments will conform to State of Illinois Statutes and County procedures for Change Orders.

6.0 CONTRACT ENFORCEMENT – ATTORNEY'S FEES

6.1 If the County is required to take legal action to enforce performance of any of the terms, provisions, covenants and conditions of this Contract, and by reason thereof, the County is required to use the services of an attorney, including the States Attorney, then the County shall be entitled to reasonable attorney's fees and all expenses and costs incurred by the County pertaining thereto and in enforcement of any remedy, including costs and fees relating to any appeal.

7.0 SEVERABILITY CLAUSE

7.1 If any section, paragraph, clause, phrase or portion of this Contract is for any reason determined by a court of competent jurisdiction to be invalid and unenforceable, such portion shall be deemed separate, distinct and an independent provision, and the court's determination shall not affect the validity or enforceability of the remaining portions of this Contract.

8.0 GOVERNING LAW

8.1 This Contract shall be governed by the laws of the State of Illinois both as to interpretation and enforcement. Venue for all disputes will be exclusively in the circuit court for the Eighteenth Judicial Circuit in DuPage County, Illinois and that Illinois law will control.

9.0 ENTIRE AGREEMENT

9.1 This Contract, including the documents listed in 1.0, contains the entire agreement between the parties.

9.2 There are no covenants, promises, conditions, or understandings; either oral or written, other than those contained herein.

IN WITNESS, WHEREOF, the parties set their hands and seals as of the date first written above.

THE COUNTY OF DUPAGE, ILLINOIS

By: Valerie Calvente
SIGNATURE

Valerie Calvente
PRINTED NAME

Chief Procurement Officer
PRINTED TITLE

02-21-2024
DATE

CONTRACTOR

By: Kurt Plattner
SIGNATURE

Kurt Plattner
PRINTED NAME

Treasurer
PRINTED TITLE

2/20/24
DATE

VILLAGE OF ARLINGTON HEIGHTS
INC. 1887

Village Board of Trustees
4/20/2026

Item: An Ordinance Granting A Special Use Permit for a Large Amusement Facility (81 W. Golf Road)

Department: Planning & Community Development

Item Description:
At the April 6, 2026 Village Board meeting, a request for a Special Use Permit for an Amusement Facility, Large in the B-2 General Business District, was discussed and approved. The Ordinance setting forth the provisions and conditions of approval is attached.

Recommedation:
Adoption of an Ordinance granting a Special Use Permit for 81 W. Golf Road.

ATTACHMENTS:
1. AH Ordinance Approving Special Use Permit for 81 W. Golf Rd

VILLAGE OF ARLINGTON HEIGHTS

ORDINANCE NO. 2026-_____

AN ORDINANCE GRANTING A SPECIAL USE PERMIT
FOR A LARGE AMUSEMENT FACILITY
(81 W. Golf Road)

ADOPTED BY THE
PRESIDENT AND BOARD OF TRUSTEES
OF THE VILLAGE OF ARLINGTON HEIGHTS
THIS ____ DAY OF _____, 2026.

Published in pamphlet form
by the authority of the
President and Board of Trustees
of the Village of Arlington Heights,
Cook County, Illinois this
_____ day of _____, 2026

_____
Village Clerk

AN ORDINANCE GRANTING A SPECIAL USE PERMIT
FOR A LARGE AMUSEMENT FACILITY
(81 W. Golf Road)

WHEREAS, DP Arlington LLC (*"Owner"*) is the record title owner of the property located in the B-2 General Business District (*"B-2 District"*), commonly known as 81 W. Golf Road, and legally described in Exhibit A attached to and, by this reference, made a part of this Ordinance (*"Property"*); and

WHEREAS, the Property is currently improved with an 88,665-square-foot shopping center, parking lots, and other related improvements; and

WHEREAS, Iskhak Kadyrkulov and Kairat Baialiev (collectively, the *"Applicants"*), the prospective tenants of an approximately 6,892-square-foot portion of the Property (*"Premises"*), desire to operate a large amusement facility including computer gaming stations and billiards within the Premises (*"Proposed Use"*); and

WHEREAS, pursuant to Section 8.6 of "The 2002 Comprehensive Amendment of the Zoning Ordinance of the Village of Arlington Heights," as amended (*"Zoning Code"*), the Proposed Use may only be operated on the Property upon issuance by the Village Board of Trustees of a special use permit therefor; and

WHEREAS, pursuant to Section 8 of the Zoning Code, the Applicants, with the Owner's consent, have filed an application for approval of a special use permit to permit the operation of the Proposed Use within the Premises (*"Requested Relief"*); and

WHEREAS, a public hearing of the Plan Commission of the Village to consider approval of the Requested Relief was duly advertised in the *Daily Herald* on March 10, 2026 and held on March 25, 2026; and

WHEREAS, on March 25, 2026, the Plan Commission made findings and recommendations in support of the Requested Relief, with conditions; and

WHEREAS, the President and Board of Trustees have determined that the Requested Relief meets the required standards for special use permits as set forth in Section 8.2 of the Zoning Code; and

WHEREAS, the President and Board of Trustees have determined that it will serve and be in the best interest of the Village to grant the Requested Relief, subject to the conditions, restrictions, and provisions of this Ordinance;

NOW, THEREFORE, BE IT ORDAINED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF ARLINGTON HEIGHTS:

SECTION 1. RECITALS. The facts and statements contained in the preamble to this Ordinance are found to be true and correct and are hereby adopted as part of this Ordinance.

SECTION 2. GRANT OF SPECIAL USE PERMIT. Subject to, and contingent upon, the conditions, restrictions, and provisions set forth in Section 3 of this Ordinance, and in accordance with, and pursuant to, Section 8 of the Zoning Code and the home rule powers of the Village, the Village hereby grants a special use permit to the Applicants to authorize the operation of a large amusement facility within the Premises on the Property.

SECTION 3. CONDITIONS. Notwithstanding any use or development right that may be applicable or available pursuant to the provisions of the Zoning Code, the approval granted pursuant to

Section 2 of this Ordinance is hereby expressly subject to, and contingent upon, the development, use, and maintenance of the Property in compliance with each and all of the following conditions:

A. Compliance with Regulations. Except to the extent specifically provided otherwise in this Ordinance, the development, use, operation, and maintenance of the Proposed Use and the Property must comply at all times with all applicable federal, State, and Village statutes, codes, ordinances, and regulations, as the same have been or may be amended from time to time.

B. Compliance with Architectural Plans. Except for minor changes and site work approved by the Village Director of Building & Life Safety (for matters within their permitting authority) in accordance with all applicable Village standards, the development, use, operation, and maintenance of the Proposed Use must be substantially compliant with the Architectural Plans, prepared by A.B. Architecture, P.C. and with a last revision date of January 26, 2026, consisting of four sheets, attached to this Ordinance as Exhibit B (*"Architectural Plans"*), as modified pursuant to Section 3.C of this Ordinance.

C. Certificate of Occupancy. Prior to issuance by the Village of a certificate of occupancy for the Premises, the Applicants must make all necessary corrections to the Architectural Plans to permit the proposed change of occupancy of the Premises, to the satisfaction of the Village Director of Building & Life Safety.

D. Liquor License Required. No beer, wine, liquor, or other alcoholic beverages may be brought to or sold on the Premises unless the Applicants obtain, and except in strict compliance with, a Village-issued liquor license for the Premises.

SECTION 4. RECORDATION; BINDING EFFECT. A copy of this Ordinance will be recorded on title to the Property with the Cook County Clerk's Recording Division. This Ordinance and the privileges, obligations, and provisions contained herein inure solely to the benefit of and are binding upon the Applicants and each of their heirs, representatives, successors, and assigns.

SECTION 5. FAILURE TO COMPLY WITH CONDITIONS. Upon the failure or refusal of the Applicants to comply with any or all of the conditions, restrictions, or provisions of this Ordinance, as applicable, the approval granted in Section 2 of this Ordinance may, at the sole discretion of the Village President and Board of Trustees, by ordinance duly adopted, be revoked and become null and void; provided, however, that the Village President and Board of Trustees may not so revoke the approval granted in Section 2 of this Ordinance unless they first provide the Applicants with two months advance written notice of the reasons for revocation and an opportunity to be heard at a regular meeting of the Village President and Board of Trustees. In the event of revocation, the development and use of the Property will be governed solely by the regulations of the B-2 District and the applicable provisions of the Village Code, as the same may, from time to time, be amended. Further, in the event of such revocation, the Village Manager and Village Attorney are hereby authorized and directed to bring such enforcement action as may be appropriate under the circumstances.

SECTION 6. AMENDMENTS. Any amendments to the approval granted in Section 2 of this Ordinance that may be requested by the Applicants after the effective date of this Ordinance may be granted only pursuant to the procedures, and subject to the standards and limitations, provided in the Zoning Code.

SECTION 7. SEVERABILITY. If any provision of this Ordinance or part thereof is held invalid by a court of competent jurisdiction, the remaining provisions of this Ordinance are to remain in full force and effect, and will be interpreted, applied, and enforced so as to achieve, as near as may be, the purpose and intent of this Ordinance to the greatest extent permitted by applicable law.

SECTION 8. EFFECTIVE DATE.

A. This Ordinance will be effective only upon the occurrence of all of the following events:

1. Passage by the Village President and Board of Trustees in the manner required by law; and

2. The filing by the Owner and the Applicants with the Village Clerk of an Unconditional Agreement and Consent, in the form of Exhibit C attached to and, by this reference, made a part of this Ordinance, to accept and abide by each and all of the terms, conditions, and limitations set forth in this Ordinance and to indemnify the Village for any claims that may arise in connection with the approval of this Ordinance.

B. In the event the Owner or the Applicants do not file fully executed copies of the Unconditional Agreement and Consent, as required by Section 8.A.2 of this Ordinance, within 30 days after the date of final passage of this Ordinance, the Village President and Board of Trustees will have the right, in their sole discretion, to declare this Ordinance null and void and of no force or effect.

AYES:

NAYS:

PASSED AND APPROVED THIS ___ day of _____, 2026

_____
Village President

ATTEST:

_____
Village Clerk

EXHIBIT A

LEGAL DESCRIPTION OF THE PROPERTY

LOTS 2 AND 3 IN SHINER'S SUBDIVISION, BEING A RESUBDIVISION OF PART OF LOTS 5 AND 6 IN THE SUBDIVISION OF JOSEPH A. BARNES FARM IN SECTIONS 9, 15 AND 16, TOWNSHIP 41 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, EXCEPTING THEREFROM THAT PART OF LOT 3 FALLING IN THE FOLLOWING DESCRIBED PROPERTY:

THAT PART OF LOTS 1 AND 3 IN SHINER'S SUBDIVISION, BEING A SUBDIVISION OF LOTS 5 AND 6 IN THE SUBDIVISION OF JOSEPH A. BARNES' FARM IN SECTIONS 9, 15 AND 16, TOWNSHIP 41 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN BEGINNING AT THE NORTHEAST CORNER OF SAID LOT 1; THENCE ON AN ASSUMED BEARING OF NORTH 89 DEGREES 44 MINUTES 21 SECONDS EAST ALONG THE NORTH LINE OF SAID LOT 3 FOR A DISTANCE OF 101,79 FEET (101,75 FEET, RECORD) TO THE NORTHEAST CORNER OF LOT 3; THENCE SOUTH 3 DEGREES 25 MINUTES 59 SECONDS WEST, 14.95 FEET; THENCE SOUTH 89 DEGREES 44 MINUTES 21 SECONDS WEST, 100.83 FEET TO A POINT ON THE EAST LINE OF LOT 1; THENCE NORTH 86 DEGREES 20 MINUTES 21 SECONDS WEST, 145.06 FEET; THENCE SOUTH 89 DEGREES 44 MINUTES 21 SECONDS WEST, 230.00 FEET; THENCE NORTH 87 DEGREES 30 MINUTES 31 SECONDS WEST, 104.13 FEET TO A POINT ON THE NORTH LINE OF LOT 3; THENCE NORTH 89 DEGREES 44 MINUTES 21 SECONDS EAST ALONG THE NORTH LINE OF LOT 3 FOR A DISTANCE OF 478.73 FEET TO THE POINT OF BEGINNING, IN COOK COUNTY, ILLINOIS.

Commonly known as: 81 W. Golf Road, Arlington Heights, Illinois 60005

P.I.N.: 08-16-200-113

EXHIBIT B

ARCHITECTURAL PLANS

GENERAL DEMOLITION NOTES

1. CONFORM TO ALL BUILDING CODE REGULATIONS PERTAINING TO DEMOLITION, INCLUDING TO ABIDE FOR ANY SPECIAL METHODS, EXPOSING WRECKING AND REMOVING EQUIPMENT FOR ANY DAMAGES TO BE CAUSED TO ADJACENT POSSIBILITY OF DAMAGE TO ADJOINING AREAS. BE LIABLE FOR, AND REPAIR DAMAGE TO STRUCTURES, MATERIALS OR EQUIPMENT CAUSED BY WRECKING OPERATIONS. USE OF EXPLOSIVES WILL NOT PERMITTED.
2. CONDUCT DEMOLITION OPERATIONS AND REMOVAL OF DEBRIS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED OR USED FACILITIES. ENSURE SAFE PASSAGE OF PERSONS AROUND AREA OF DEMOLITION. CONDUCT OPERATIONS TO PREVENT INJURY TO ADJACENT STRUCTURES, OTHER FACILITIES AND PERSONS. PROPERLY REPAIR DAMAGES CAUSED TO ADJACENT FACILITIES BY DEMOLITION OPERATIONS AT NO COST TO OWNER.
3. MAINTAIN EXISTING UTILITIES INDICATED TO REMAIN, KEEP IN SERVICE, AND PROTECT AGAINST DAMAGE DURING DEMOLITION OPERATIONS. DO NOT INTERRUPT EXISTING UTILITIES SERVING OCCUPIED OR USED FACILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION. ARRANGE FOR SHUT-OFF OF UTILITIES AND COORDINATE WITH THE OWNER.
4. UNLESS OTHERWISE SPECIFIED OR INDICATED ON THE DRAWINGS, ALL SALVAGE AND PRODUCTS OF DEMOLITION AND REMOVAL SHALL BECOME THE PROPERTY OF THIS CONTRACTOR. USE 2-HOUR RATED TEMPORARY ENCLOSURES, AND OTHER SUITABLE METHODS TO LIMIT DUST AND DIRT RISING AND SCATTERING IN AIR TO LOWEST PRACTICAL LEVEL. COMPLY WITH GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION. WITHOUT ADDITIONAL COST TO SECTIONS, WORK SHALL BE EXECUTED IN AN ORDERLY AND CAREFUL MANNER WITH DUE CONSIDERATION FOR THE PUBLIC.
5. CONTRACTOR SHALL REMOVE ALL ITEMS OF SALVAGE AND ALL RUBBISH AND DEBRIS FROM THE BUILDING AS QUICKLY AS IT ACCUMULATES, SO AS TO PREVENT ANY FIRE HAZARDS OR UNDUE HARDSHIPS IN MAINTAINING BUILDING AND UNLOADING OF NEW MATERIALS. STREETS AND DRIVES SHALL BE KEPT FREE FROM ACCUMULATIONS OF DEBRIS AT ALL TIMES. IMMEDIATELY REMOVE SPILLED DEBRIS. BURNING OF REMOVED MATERIALS FROM DEMOLISHED STRUCTURES WILL NOT BE PERMITTED ON SITE. CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS FOR TIMES FOR ACTUAL TRUCKING AWAY OF DEBRIS TRANSPORT MATERIALS REMOVED FROM STRUCTURES AND LEGALLY DISPOSE OF OFF SITE.
6. ALL LOOSE ITEMS LIKE FURNITURE, OFFICE EQUIPMENT ETC. NOT WANTED BY OWNER, MUST BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.

GENERAL NOTES

1. CONTRACTOR AND SUBCONTRACTORS SHALL VISIT JOB SITE TO THOROUGHLY EXAMINE EXISTING CONDITIONS. FAILURE TO MEET THIS REQUIREMENTS SHALL NOT ENTITLE THE CONTRACTOR TO ADDITIONAL COMPENSATION AFTER PROPOSALS ARE ACCEPTED.
2. ANY DISCREPANCY IN THE CONTRACT DOCUMENTS OR BETWEEN DRAWINGS AND THE JOB SITE CONDITIONS SHALL BE PROMPTLY REPORTED TO ARCHITECT IN WRITING FOR CLARIFICATION PRIOR TO COMMENCEMENT OF THE WORK.
3. CONTRACTOR SHALL COORDINATE THE WORK WITH ALL PARTIES INVOLVED SO THAT THE WORK CAN PROCEED AS EFFICIENTLY AND RAPIDLY, WITHOUT TRADE INTERFERENCE OR WASTE OF TIME AND MATERIALS.
4. CONTRACTOR SHALL PROVIDE ADEQUATE BRACING, SHORING, PROTECTIVE COVERING, DUST PROTECTION AND ALL NECESSARY PREVENTIVE MEASURES AGAINST FIRE, INJURY TO ALL PEOPLE AT JOB SITE AND DAMAGE TO PROPERTY ON THE PREMISES. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY.
5. CONTRACTOR SHALL REMOVE ALL DEBRIS AND TRASH RESULTING FROM CONSTRUCTION ON A DAILY BASIS.
6. ALL DRYWALL WHICH BUTTS, MASONRY OR CONCRETE SHALL HAVE J-BEADS AND BE CAULKED.
7. ALL WOOD BLOCKING IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PRESSURE TREATED TYPE.
8. THE PLUMBING AND HEATING CONTRACTORS SHALL APPROPRIATELY INSULATE ALL PLUMBING AND HEATING WATER PIPING WHICH OCCURS IN EXTERIOR WALLS TO PREVENT FREEZING OF PIPES AND FITTINGS. PROVIDE ELECTRICAL HEAT TRACING AS REQUIRED BY CONDITIONS.
9. FIRE RATED WALLS SHALL EXTEND UPTIGHT TO THE UNDERSIDE OF THE ROOF DECK OR RATED ASSEMBLY ABOVE, FOR ADDITIONAL NOTES AND DETAILS PERTAINING TO DRYWALL JOINTS SEE WALL TYPES. DRYWALL JOINTS SHALL BE FIRE TAPED, INCLUDING DRYWALL ON BOTH SIDES OF METAL STUDS. ALL DUCTWORK PENETRATING A DESIGNATED SMOKE/FIRE WALL SHALL BE FURNISHED WITH UL APPROVED MOTORIZED SMOKE/FIRE DAMPERS WHETHER INDICATED ON DRAWINGS OR NOT.
10. CONSULT MECHANICAL DRAWINGS FOR ALL GRILLS AND LOUVER SIZES BEING INSTALLED BY THE GENERAL CONTRACTOR. CONSTRUCT EXTERIOR WALL OPENINGS ACCORDINGLY.
11. PROVIDE CONTROL JOINTS ABOVE ALL DOOR JAMBS WHICH ARE LOCATED IN DRYWALL OR MASONRY CORRIDORS WALLS.
12. THE GENERAL CONTRACTOR AND THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND COORDINATION OF ALL REQUIRED MECHANICAL OPENINGS PASSING THROUGH ROOF AND WALLS. IT SHALL BE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO REVIEW ALL PLUMBING, HEATING, ETC., DRAWINGS AND LOCATE ALL OPENING ON APPROPRIATE SHOP DRAWINGS.
13. THE GENERAL CONTRACTOR SHALL LAY OUT AND VERIFY THE OVERALL DIMENSIONS ON SITE, PRIOR TO COMMENCING CONSTRUCTION AND PROMPTLY INFORM ARCHITECT IN WRITING OF ANY DISCREPANCY IN THE CONTRACTOR DOCUMENTS.
14. SEAL ALL OPENINGS IN EXTERIOR WALLS, THAT POTENTIALLY ALLOW THE PASSAGE OF AIR, WITH CAULKING, FOAM, OR OTHER SEALANT, OR WITH FOAM INSULATION OR BUILDING INSULATION AS APPROPRIATE FOR OPENING.
15. PROVIDE 2X8 FIRE TREATED WOOD BLOCKING IN WALLS FOR ALL NEW GRAB BARS, EXCEPT FOR EXISTING BUILDING. LAVATORIES, HANDRAILS, TOWEL BARS, AND WALL MOUNTED DOOR STOPS. TOWEL BARS, GRAB BARS AND HANDRAILS TO SUSTAIN A PULL OF 250 LBS., FOR 5 MINUTES. PROVIDE TWO ROWS OF 2X10 FIRE TREATED BLOCKING FOR ALL WALL MOUNTED CABINETS.
16. CAULK ALL TOILETS TO FLOORS, OR WALLS, LAVATORIES TO WALLS, LAMINATED PLASTIC TOPS TO WALLS, AND BATHROOM VANITY TOPS TO WALLS, AND FLOOR. USE SILICONE SEALANT, COLOR WHITE.
17. THESE DRAWINGS DO NOT INCLUDE INVESTIGATION, TESTING, AND/OR REMOVAL OF HAZARDOUS MATERIALS. IT IS THE OWNERS RESPONSIBILITY TO IDENTIFY, TEST, AND/OR PROVIDE ENVIRONMENTAL REPORTS AS NECESSARY.
18. GRIND SMOOTH ALL NEW EXPOSED CONCRETE AND PATCH EXISTING.
19. GENERAL CONTRACTOR OR EACH TRADE ARE RESPONSIBLE FOR CUTTING AND PATCHING OF ANY EXISTING BUILDING ELEMENTS IN RELATION TO RELOCATION EXISTING OR INSTALLING OF NEW PIPING, CONDUITS, WIRING, ETC. AFFECTED AREAS MUST BE PATCHED BACK TO MATCH ORIGINAL MATERIAL OF FINISH.

[redacted]

ab architecture
A.B. ARCHITECTURE, P.C.

338 Camden Ln., Northfield
I l l i n o i s 6 0 0 9 3
T : (3 1 2) 4 2 0 - 6 6 4 4
E: balaboxy@gmail.com

BISH HOUSE-COMPUTER GAMES-AMUSEMENT FACILITY
INTERIOR REMODELING
81 WEST GOLF ROAD, ARLINGTON HEIGHTS, IL 60005

EXIST. / DEMO., PROP. FLOOR PLANS

NO.	DESCRIPTION	DATE
	ISSUE FOR PERMIT	12/04/25
1	ISSUE FOR PERMIT REV.#1	12/29/25
2	ISSUE FOR PERMIT REV.#2	01/26/26

KEY PLAN

REVISIONS

SIGNATURE

REGISTERED ARCHITECT
BHAN AL-ABOEY
001-020615
STATE OF ILLINOIS

STATE OF ILLINOIS LICENSE EXPIRES: APRIL 30, 2027
PROFESSIONAL DESIGN FIRM REGISTRATION NO.: 184.005192

DRAWN BY	APPROVED BY
BN	BA
JOB NO.	DATE
0820	12-04-2025

SHEET NO.

A101

[redacted]

[redacted]

ab architecture
A.B. ARCHITECTURE, P.C.

838 Camden Ln., Northfield
Illinois 60093
T: (312) 420 - 6644
E: balabosy@gmail.com

[redacted]

BISH HOUSE-COMPUTER GAMES-AMUSEMENT FACILITY
INTERIOR REMODELING
81 WEST GOLF ROAD, ARLINGTON HEIGHTS, IL 60005

EXISTING / DEMO AND PROPOSED REFLECTED CEILING PLAN

NO.	DESCRIPTION	DATE
	ISSUE FOR PERMIT	I 2/04/25
1	ISSUE FOR PERMIT REV.#1	I 2/28/25
2	ISSUE FOR PERMIT REV.#2	01/26/26

KEY PLAN

REVISIONS

SIGNATURE

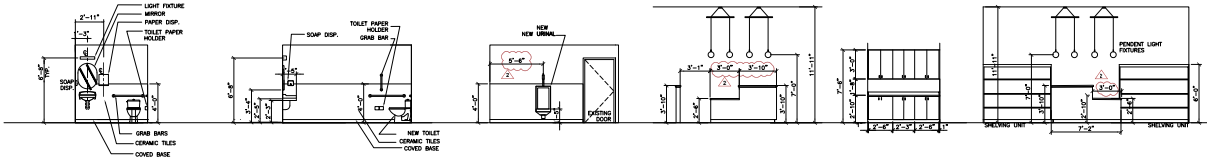
LICENSED ARCHITECT
BIHAN AL-ABOSY
001-020815
STATE OF ILLINOIS

STATE OF ILLINOIS LICENSE EXPIRES: APRIL 30, 2027
PROFESSIONAL DESIGN FIRM REGISTRATION NO. 184-005192

DRAWN BY	APPROVED BY
BN	BA
JOB NO.	DATE
0820	12-04-2025

SHEET NO.

A102



A WOMEN'S TOILET SCALE: 1/4"=1'-0"

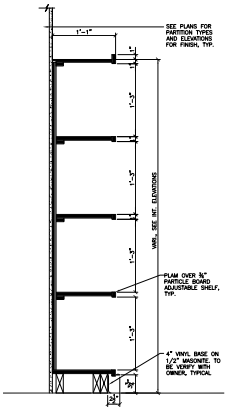
B MEN'S TOILET SCALE: 1/4"=1'-0"

B MEN'S TOILET SCALE: 1/4"=1'-0"

D CASHIER DESK SCALE: 1/4"=1'-0"

E CASHIER AREA SCALE: 1/4"=1'-0"

F CAFETERIA SCALE: 1/4"=1'-0"



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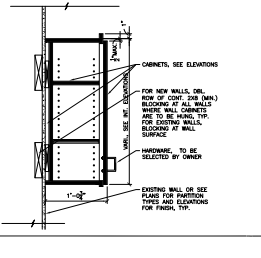
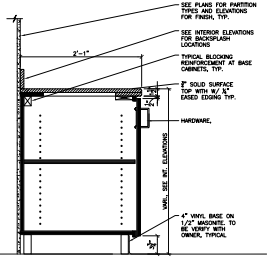


2 UPPER CABINET DETAIL, TYP. SCALE: 1/4"=1'-0"



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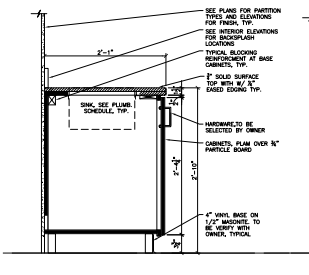

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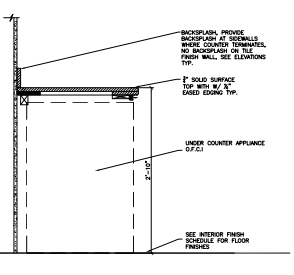
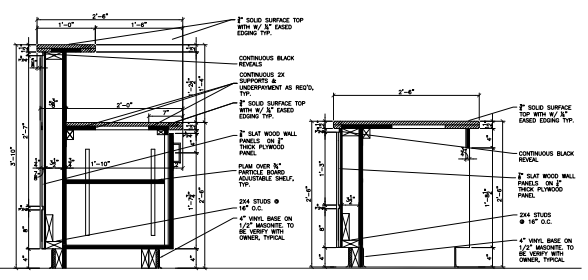
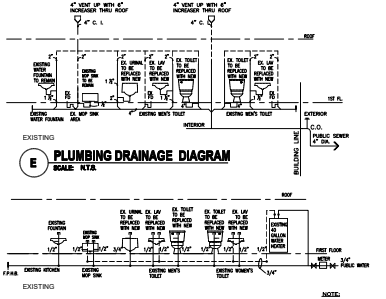


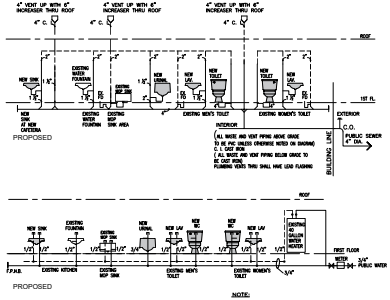
5 MILLWORK SECTION AT CAFITERIA, TYP. SCALE: 1/4"=1'-0"



6 CASHIER CABINET DETAIL, TYP. SCALE: 1 1/2"=1'-0"

7 CASHIER - KNEE SPACE DETAIL, TYP. SCALE: 1 1/2"=1'-0"





ab architecture
A.B. ARCHITECTURE, P.C.
838 Camden Ln., Northfield
I l l i n o i s 6 0 0 9 3
T: (3 1 2) 4 2 0 - 6 6 4 4
E: balabosy@gmail.com

BISH HOUSE-COMPUTER GAMES-AMUSEMENT FACILITY
INTERIOR REMODELING
ARLINGTON HEIGHTS, IL 60005
81 WEST GOLF ROAD,

INTERIOR ELEVATIONS - PLUMBING DIAGRAMS AND DETAILS

NO.	DESCRIPTION	DATE
	ISSUE FOR PERMIT	1/24/25
1	ISSUE FOR PERMIT REV.#1	1/23/26
2	ISSUE FOR PERMIT REV.#2	01/26/26

KEY PLAN

REVISIONS

SIGNATURE

LICENSED ARCHITECT BIJAN ALABOSY 001-020015 BIJAN ALABOSY

STATE OF ILLINOIS LICENSE EXPIRES: APRIL 30, 2027
PROFESSIONAL DESIGN FIRM
E.D.GISTRATION NO: 184-005182

DRAWN BY	APPROVED BY
BN	BA
JOB NO.	DATE
3920	12-04-2025

SHEET NO.

A103

EXHIBIT C

UNCONDITIONAL AGREEMENT AND CONSENT

TO: The Village of Arlington Heights, Illinois (*"Village"*):

WHEREAS, Iskhak Kadyrkulov and Kairat Baialiev (collectively, *"Applicants"*) are the lessees of record of that certain property owned by DP Arlington LLC (*"Owner"*) located in the B-2 General Business District (*"B-2 District"*), commonly known as 81 W. Golf Road (*"Property"*); and

WHEREAS, Ordinance No. 2026-_____, adopted by the Village President and Board of Trustees on _____, 2026 (*"Ordinance"*), grants a special use permit to the Applicants for the operation of a large amusement facility on a portion of the Property; and

WHEREAS, Section 8 of the Ordinance provides, among other things, that the Ordinance will be of no force or effect unless and until the Applicants and Owner file, within 30 days following the passage of the Ordinance, their unconditional agreement and consent to accept and abide by each and all of the terms, conditions, and limitations set forth in the Ordinance;

NOW, THEREFORE, the Applicants and Owner hereby agree and covenant as follows:

1. The Applicants and Owner hereby unconditionally agree to, accept, consent to, and will abide by, each and all of the terms, conditions, limitations, restrictions, and provisions of the Ordinance.

2. The Applicants and Owner acknowledge that public notices and hearings have been properly given and held with respect to the adoption of the Ordinance, have considered the possibility of the revocation provided for in the Ordinance, and agree not to challenge any such revocation on the grounds of any procedural infirmity or a denial of any procedural right.

3. The Applicants and Owner acknowledge and agree that the Village is not and will not be, in any way, liable for any damages or injuries that may be sustained as a result of the Village's granting of the special use permit for the Property or its adoption of the Ordinance, and that the Village's approval does not, and will not, in any way, be deemed to insure the Applicants or Owner against damage or injury of any kind and at any time.

4. The Applicants and Owner hereby agree to jointly and severally hold harmless and indemnify the Village, the Village's corporate authorities, and all Village elected and appointed officials, officers, employees, agents, representatives, and attorneys, from any and all claims that may, at any time, be asserted against any of such parties in connection with the Village's adoption of the Ordinance granting the special use permit for the Property.

[SIGNATURES ON FOLLOWING PAGE]

Dated: _____, 2026

ISKHAK KADYRKULOV

_____

KAIRAT BAIALIEV

_____

ATTEST:

DP ARLINGTON LLC

By: _____

By: _____

Its: _____

Its: _____

VILLAGE OF ARLINGTON HEIGHTS
INC. 1887

Village Board of Trustees
4/20/2026

Item: An Ordinance Rezoning Property to the R-3 One Family Dwelling District (1515 S. Douglas Avenue)

Department: Planning & Community Development

Item Description:
At the April 6, 2026 Village Board meeting, a request to Rezone the property at 1515 S. Douglas Avenue from the R-1 One Family Dwelling District to the R-3 One Family Dwelling District, was discussed and approved. The Ordinance setting forth the provisions and conditions of approval is attached.

Recommendation:
Adoption of an Ordinance rezoning the property at 1515 S. Douglas Avenue from the R-1 One Family Dwelling District to the R-3 One Family Dwelling District.

ATTACHMENTS:
1. Ordinance Approving Rezoning to R-3 District for 1515 S. Douglas Ave

ORDINANCE NO. 2026-_____

AN ORDINANCE REZONING PROPERTY TO
THE R-3 ONE FAMILY DWELLING DISTRICT
(1515 S. Douglas Avenue)

WHEREAS, Marek Serafin (*"Owner"*) is the owner of that certain property commonly known as 1515 S. Douglas Avenue, and legally described in Exhibit A attached to and, by this reference, made a part of this Ordinance (*"Property"*); and

WHEREAS, the Owner submitted an application to the Village to rezone the Property from the R-1 One Family Dwelling District (*"R-1 District"*) to the R-3 One Family Dwelling District (*"R-3 District"*); and

WHEREAS, Section 14 of "The 2002 Comprehensive Amendment of the Zoning Ordinance of the Village of Arlington Heights," as amended (*"Zoning Code"*), regulates amendments to the Village of Arlington Heights Official Zoning Map (*"Zoning Map"*); and

WHEREAS, pursuant to notice duly published in the *Daily Herald* on March 10, 2026, the Plan Commission of the Village conducted a public hearing on March 25, 2026, concerning amendments to the Zoning Map to rezone the Property from the R-1 District into the R-3 District (*"Requested Rezoning"*); and

WHEREAS, at the conclusion of the public hearing, the Plan Commission made findings and recommendations in support of the Requested Rezoning of the Property; and

WHEREAS, having considered the findings and recommendations of the Plan Commission, the President and Board of Trustees have found and determined that it will serve and be in the best interest of the Village and its residents to approve the Requested Rezoning and rezone the Property into the R-3 District;

NOW, THEREFORE, BE IT ORDAINED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF ARLINGTON HEIGHTS, COOK COUNTY, ILLINOIS, as follows:

SECTION 1. RECITALS. The facts and statements contained in the preamble to this Ordinance are found to be true and correct and are hereby adopted as part of this Ordinance.

SECTION 2. ZONING MAP AMENDMENT. The Zoning Map of the Village is hereby amended to rezone the Property into the R-3 District, in accordance with, and pursuant to, Section 14 of the Zoning Code and the home rule powers of the Village.

SECTION 3. SEVERABILITY. If any provisions of this Ordinance or part thereof is held invalid by a court of competent jurisdiction, the remaining provisions of this Ordinance are to remain in full force and effect, and are to be interpreted, applied, and enforced so as to achieve, as near as may be, the purpose and intent of this Ordinance to the greatest extent permitted by applicable law.

SECTION 4. EFFECTIVE DATE. This Ordinance will be in full force and effect from and after its passage, approval, and publication in the manner provided by law.

AYES:

NAYS:

PASSED AND APPROVED THIS ___ day of _____, 2026

_____
Village President

ATTEST:

_____
Village Clerk

EXHIBIT A

LEGAL DESCRIPTION OF THE PROPERTY

THE EAST 175 FEET OF THE WEST 208 FEET OF THE NORTH 220 FEET OF THE SOUTH 420 FEET OF THE SOUTHWEST ¼ OF THE NORTHEAST ¼ OF THE SOUTHWEST ¼ OF SECTION 10, TOWNSHIP 41 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY ILLINOIS.

Commonly known as: 1515 S. Douglas Avenue, Arlington Heights, Illinois

PINs: 08-10-301-018

VILLAGE OF ARLINGTON HEIGHTS
INC. 1887

Village Board of Trustees
4/20/2026

Item: An Ordinance Granting Variations for a Residential Development (1515 S. Douplas Avenue)
Department: Planning & Community Development

Item Description:
At the April 6, 2026 Village Board meeting, a request for a Variation from Chapter 28, Section 5.1-3.2 to reduce the minimum lot width of the proposed Lot 3 of M. Serafin Preliminary Plat of Subdivision from 70 feet to 60 feet; and a Variation from Chapter 29, Section 307(a)(3) to reduce the minimum lot width of the proposed Lot 3 of M. Serafin Preliminary Plat of Subdivision from 70 feet to 60 feet, was discussed and approved. The Ordinance setting forth the provisions and conditions of approval is attached.

Recommendation:
Adoption of an Ordinance granting variations for a residential development.

ATTACHMENTS:
1. Ordinance Approving Variations 1515 S. Douglas Ave.

Prepared by and return to:
Village of Arlington Heights
33 S. Arlington Heights Road
Arlington Heights, Illinois 60005
Attention: Village Clerk

THIS SPACE FOR RECORDERS USE ONLY

VILLAGE OF ARLINGTON HEIGHTS

ORDINANCE NO. 2026-_____

AN ORDINANCE GRANTING VARIATIONS FOR A RESIDENTIAL DEVELOPMENT
(1515 S. Douglas Avenue)

ADOPTED BY THE
PRESIDENT AND BOARD OF TRUSTEES
OF THE VILLAGE OF ARLINGTON HEIGHTS
THIS ____ DAY OF _____, 2026.

AN ORDINANCE GRANTING VARIATIONS FOR A RESIDENTIAL DEVELOPMENT
(155 S. Douglas Avenue)

WHEREAS, Marek Serafin (*"Owner"*) is the record title owner of that certain parcel of real property situated within the Village's R-3 One Family Dwelling District (*"R-3 District*"), located at the address commonly known as 1515 S. Douglas Avenue, and legally described in Exhibit A attached to and, by this reference, made a part of this Ordinance (*"Property"*); and

WHEREAS, the Owner desires to subdivide the Property into two residential lots and one dedicated on-site stormwater detention lot, as depicted on the plat titled "Preliminary Plat M. Serafin's Subdivision," prepared by Professionals Associated - MM Survey Co., consisting of one sheet, with a last revision date of January 12, 2026, a copy of which is attached to and, by this reference, made a part of this Resolution as Exhibit B (*"Preliminary Plat"*); and

WHEREAS, pursuant to Section 5.1-3.2 of the "The 2002 Comprehensive Amendment of the Zoning Code of the Village of Arlington Heights," as amended (*"Zoning Code"*), the minimum lot width required for a lot in the R-3 District is 70 feet; and

WHEREAS, pursuant to Section 29-307(a)(3) of the "Municipal Code of Arlington Heights, Illinois, 1995," as amended (*"Village Code"*), the minimum lot width required for a subdivided residential lot is 70 feet; and

WHEREAS, pursuant to Section 107 of Chapter 29 of the Village Code (*"Subdivision Code"*), in order to allow the proposed subdivision of the Property, the Owner filed an application for approval of: (i) a variation from Section 5.1-3.2 of the Zoning Code to reduce the required width of Lot 3 of the Property (as depicted on the Preliminary Plat), from 70 feet to 60 feet; and (ii) a variation from Section 29-307(a)(3) of the Village Code to reduce the required width of Lot 3 of the Property, from 70 feet to 60 feet (collectively, the *"Requested Relief"*); and

WHEREAS, a public hearing of the Plan Commission of the Village to consider approval of the Requested Relief was duly advertised in the Daily Herald on March 10, 2026, and held on March 25, 2026; and

WHEREAS, on March 25, 2026, the Plan Commission made findings and recommendations in support of the Requested Relief, subject to specified conditions; and

WHEREAS, the Village President and Board of Trustees has determined that the Requested Relief complies with the required standards for variations as set forth in the Zoning Code; and

WHEREAS, consistent with the Plan Commission recommendation, the President and Board of Trustees have determined that it will serve and be in the best interests of the Village and its residents to approve the Requested Relief, in accordance with, and subject to, the conditions, restrictions, and provisions of this Ordinance;

NOW, THEREFORE, BE IT ORDAINED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF ARLINGTON HEIGHTS:

SECTION 1. RECITALS. The facts and statements contained in the preamble to this Ordinance are found to be true and correct and are hereby adopted as part of this Ordinance.

SECTION 2. GRANT OF VARIATIONS. Subject to, and contingent upon, the conditions, restrictions, and provisions set forth in Section 3 of this Ordinance, and in accordance with, and pursuant

to, Section 107 of the Subdivision Code and the home rule powers of the Village, the Village hereby grants the Owner the following variations, all as depicted in the Preliminary Plat:

A. A variation from Section 5.1-3.2 the Zoning Code to reduce the minimum width of Lot 3 of the Property, from 70 feet to 60 feet; and

B. A variation from Section 29-307(a)(3) of the Village Code to reduce the required width of Lot 3 of the Property, from 70 feet to 60 feet.

SECTION 3. CONDITIONS. Notwithstanding any use or development right that may be applicable or available pursuant to the provisions of the Zoning Code, the approvals granted pursuant to Section 2 of this Ordinance are hereby expressly subject to, and contingent upon, the development, use, and maintenance of the Property in compliance with each and all of the following conditions:

A. Compliance with Regulations. Except to the extent specifically provided otherwise in this Ordinance, the development, use, operation, and maintenance of the Property and the proposed improvements must comply at all times with all applicable all applicable federal, State, and Village statutes, codes, ordinances, and regulations, as the same have been or may be amended from time to time.

B. Compliance with Plans. Except for minor changes and site work approved by the Village Director of Building & Life Safety (for matters within their permitting authority) in accordance with all applicable Village standards, the development, use, operation, and maintenance of the proposed improvements and of the Property must substantially comply with the Engineering Plans, prepared by Krueng Design PLLC, and consisting of eight sheets, with a last revision date of February 26, 2026, a copy of which is attached to and, by this reference, made a part of this Ordinance as Exhibit C.

C. Final Plat. Approval of the Requested Relief is conditioned upon the Owner's submission, and the Board of Trustees' approval, of a final plat of subdivision for the Property, in accordance with all applicable laws and procedures.

D. Required Fees. The Owner must pay all required fees in accordance with the requirements of Chapter 29 of the Village Code.

E. Utility Screening. At time of building permit application, the Owner must submit a plan to locate above-ground utilities, transformers, or other similar utility company mechanical equipment in such a way that they are screened from public rights-of-way.

F. New Home. Prior to the submittal of building permit applications for any new home on the Property, the Owner must submit an application to the Village Design Commission for review and approval of the proposed new home.

G. Fee-In-Lieu. Prior to the issuance of a site development permit for any improvements on the Property, the Owner must pay to the Village a fee-in-lieu for the deficient volume of the on-site detention basin pursuant to Chapter 29 of the Village Code.

H. Utility Easements. Prior to the issuance of a site development permit for any improvements on the Property, the Owner must dedicate utility easements along the side yard of all lots and a public utility easement around the perimeter of Lot 3, in a form acceptable to the Village.

SECTION 4. RECORDATION; BINDING EFFECT. A copy of this Ordinance will be recorded with the Cook County Clerk Recordings Division. This Ordinance and the privileges, obligations, and provisions contained herein will inure solely to the benefit of, and be binding upon, the Owner and each of his heirs, representatives, successors, and assigns, including, without limitation, subsequent owners or lessees of the Property.

SECTION 5. FAILURE TO COMPLY WITH CONDITIONS. Upon the failure or refusal of the Owner to comply with any or all of the conditions, restrictions, or provisions of this Ordinance, in addition to all other remedies available to the Village, the approvals granted in Section 2 of this Ordinance will, at the sole discretion of the Village President and Board of Trustees, by ordinance duly adopted, be revoked and become null and void; provided, however, that the Village President and Board of Trustees may not so revoke the approvals granted in Section 2 unless it first provides the Owner with two months advance written notice of the reasons for revocation and an opportunity to be heard at a regular meeting of the Village President and Board of Trustees. In the event of revocation, the development and use of the Property will be governed solely by the regulations of the R-3 District and the applicable provisions of the Zoning Code, as the same may, from time to time, be amended. Further, in the event of such revocation, the Village Manager and Village Attorney are hereby authorized and directed to bring such enforcement action as may be appropriate under the circumstances.

SECTION 6. AMENDMENTS. Any amendments to the approvals granted in Section 2 of this Ordinance that may be requested by the Owner after the effective date of this Ordinance may be granted only pursuant to the procedures, and subject to the standards and limitations, provided in the Zoning Code.

SECTION 7. SEVERABILITY. If any provision of this Ordinance or part thereof is held invalid by a court of competent jurisdiction, the remaining provisions of this Ordinance will remain in full force and effect, and will be interpreted, applied, and enforced so as to achieve, as near as may be, the purpose and intent of this Ordinance to the greatest extent permitted by applicable law.

SECTION 8. EFFECTIVE DATE.

A. This Ordinance will be effective only upon the occurrence of all of the following events:

1. Passage by the Village President and Board of Trustees in the manner required by law;

2. Publication in pamphlet form in the manner required by law;

3. Recordation of this Ordinance, together with such exhibits as the Village Clerk deems appropriate for recordation, with the office of the Recorder of Cook County; and

4. The filing by the Owner with the Village Clerk of an Unconditional Agreement and Consent, in the form of Exhibit D attached to and, by this reference, made a part of this Ordinance, to accept and abide by each and all of the terms, conditions, and limitations set forth in this Ordinance and to indemnify the Village for any claims that may arise in connection with the approvals of this Ordinance; and

B. In the event the Owner does not file a fully executed copy of the Unconditional Agreement and Consent, as required by Section 8.A.4 of this Ordinance, within 30 days after the date of final passage of this Ordinance, the Village President and Board of Trustees will have the right, in its sole discretion, to declare this Ordinance null and void and of no force or effect.

AYES:

NAYS:

PASSED AND APPROVED THIS ___ day of _____, 2026

_____
Village President

ATTEST:

_____
Village Clerk

EXHIBIT A

Legal Description of the Property

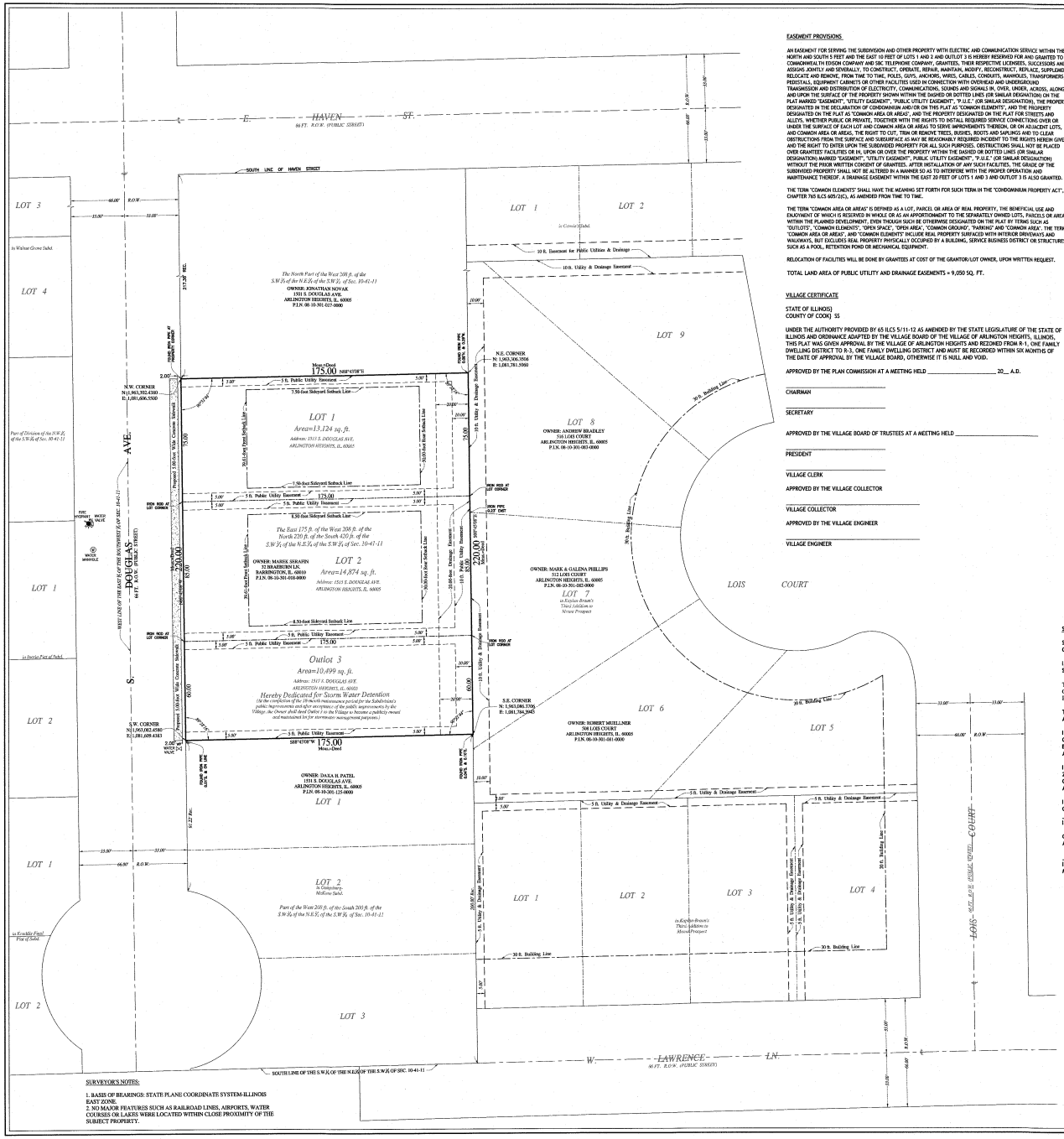
THE EAST 175 FEET OF THE WEST 208 FEET OF THE NORTH 220 FEET OF THE SOUTH 420 FEET OF THE SOUTHWEST ¼ OF THE NORTHEAST ¼ OF THE SOUTHWEST ¼ OF SECTION 10, TOWNSHIP 41 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY ILLINOIS.

Commonly known as: 1515 S. Douglas Avenue, Arlington Heights, Illinois

P.I.N.: 08-10-301-018

EXHIBIT B

Preliminary Plat



EASEMENT PROVISIONS

AN EASEMENT FOR SERVING THE SUBDIVISION AND OTHER PROPERTY WITH ELECTRIC AND COMMUNICATION SERVICE WITHIN THE NORTH AND SOUTH 5 FEET AND THE EAST 10 FEET OF LOTS 1 AND 2 AND OUTLOT 3 IS HEREBY RESERVED FOR AND GRANTED TO COMMONWEALTH EDISON COMPANY AND SBC TELEPHONE COMPANY, GRANTEES, THEIR RESPECTIVE LICENSEES, SUCCESSORS AND ASSIGNS, JOINTLY AND SEVERALLY, TO CONSTRUCT, OPERATE, REPAIR, MAINTAIN, MODIFY, RECONSTRUCT, REPLACE, SUPPLEMENT, RELOCATE AND REMOVE, FROM TIME TO TIME, POLES, GUYS, ANCHORS, WIRES, CABLES, CONDUITS, MANHOLES, TRANSFORMERS, PEDESTALS, EQUIPMENT CABINETS OR OTHER FACILITIES USED IN CONNECTION WITH OVERHEAD AND UNDERGROUND TRANSMISSION AND DISTRIBUTION OF ELECTRICITY, COMMUNICATIONS, SOUNDS AND SIGNALS IN, OVER, UNDER, ACROSS, ALONG AND UPON THE SURFACE OF THE PROPERTY SHOWN WITHIN THE DASHED OR DOTTED LINES (OR SIMILAR DESIGNATION) ON THE PLAT MARKED "EASEMENT", "UTILITY EASEMENT", "PUBLIC UTILITY EASEMENT", "P.U.E." (OR SIMILAR DESIGNATION), THE PROPERTY DESIGNATED IN THE DECLARATION OF CONDOMINIUM AND/OR ON THIS PLAT AS "COMMON ELEMENTS", AND THE PROPERTY DESIGNATED ON THE PLAT AS "COMMON AREA OR AREAS", AND THE PROPERTY DESIGNATED ON THE PLAT FOR STREETS AND ALLEYS, WHETHER PUBLIC OR PRIVATE, TOGETHER WITH THE RIGHTS TO INSTALL REQUIRED SERVICE CONNECTIONS OVER OR UNDER THE SURFACE OF EACH LOT AND COMMON AREA OR AREAS TO SERVE IMPROVEMENTS THEREON, OR ON ADJACENT LOTS, AND COMMON AREA OR AREAS, THE RIGHT TO CUT, TRIM OR REMOVE TREES, BUSHES, ROOTS AND SAPLINGS AND TO CLEAR OBSTRUCTIONS FROM THE SURFACE AND SUBSURFACE AS MAY BE REASONABLY REQUIRED INCIDENT TO THE RIGHTS HEREIN GIVEN, AND THE RIGHT TO ENTER UPON THE SUBDIVIDED PROPERTY FOR ALL SUCH PURPOSES. OBSTRUCTIONS SHALL NOT BE PLACED OVER GRANTEES' FACILITIES OR IN, UPON OR OVER THE PROPERTY WITHIN THE DASHED OR DOTTED LINES (OR SIMILAR DESIGNATION) MARKED "EASEMENT", "UTILITY EASEMENT", PUBLIC UTILITY EASEMENT", "P.U.E." (OR SIMILAR DESIGNATION) WITHOUT THE PRIOR WRITTEN CONSENT OF GRANTEES. AFTER INSTALLATION OF ANY SUCH FACILITIES, THE GRADE OF THE SUBDIVIDED PROPERTY SHALL NOT BE ALTERED IN A MANNER SO AS TO INTERFERE WITH THE PROPER OPERATION AND MAINTENANCE THEREOF. A DRAINAGE EASEMENT WITHIN THE EAST 20 FEET OF LOTS 1 AND 3 AND OUTLOT 3 IS ALSO GRANTED.

THE TERM "COMMON ELEMENTS" SHALL HAVE THE MEANING SET FORTH FOR SUCH TERM IN THE "CONDOMINIUM PROPERTY ACT", CHAPTER 765 ILCS 605/2(C), AS AMENDED FROM TIME TO TIME.

THE TERM "COMMON AREA OR AREAS" IS DEFINED AS A LOT, PARCEL OR AREA OF REAL PROPERTY, THE BENEFICIAL USE AND ENJOYMENT OF WHICH IS RESERVED IN WHOLE OR AS AN APPORTIONMENT TO THE SEPARATELY OWNED LOTS, PARCELS OR AREAS WITHIN THE PLANNED DEVELOPMENT, EVEN THOUGH SUCH BE OTHERWISE DESIGNATED ON THE PLAT BY TERMS SUCH AS "OUTLOTS", "COMMON ELEMENTS", "OPEN SPACE", "OPEN AREA", "COMMON GROUND", "PARKING" AND "COMMON AREA". THE TERM "COMMON AREA OR AREAS", AND "COMMON ELEMENTS" INCLUDE REAL PROPERTY SURFACED WITH INTERIOR DRIVEWAYS AND WALKWAYS, BUT EXCLUDES REAL PROPERTY PHYSICALLY OCCUPIED BY A BUILDING, SERVICE BUSINESS DISTRICT OR STRUCTURES SUCH AS A POOL, RETENTION POND OR MECHANICAL EQUIPMENT.

RELOCATION OF FACILITIES WILL BE DONE BY GRANTEES AT COST OF THE GRANTOR/LOT OWNER, UPON WRITTEN REQUEST.

TOTAL LAND AREA OF PUBLIC UTILITY AND DRAINAGE EASEMENTS = 9,050 SQ. FT.

VILLAGE CERTIFICATE

STATE OF ILLINOIS)
COUNTY OF COOK) SS

UNDER THE AUTHORITY PROVIDED BY 65 ILCS 5/11-12 AS AMENDED BY THE STATE LEGISLATURE OF THE STATE OF ILLINOIS AND ORDINANCE ADAPTED BY THE VILLAGE BOARD OF THE VILLAGE OF ARLINGTON HEIGHTS, ILLINOIS, THIS PLAT WAS GIVEN APPROVAL BY THE VILLAGE OF ARLINGTON HEIGHTS AND REZONED FROM R-1, ONE FAMILY DWELLING DISTRICT TO R-3, ONE FAMILY DWELLING DISTRICT AND MUST BE RECORDED WITHIN SIX MONTHS OF THE DATE OF APPROVAL BY THE VILLAGE BOARD, OTHERWISE IT IS NULL AND VOID.

APPROVED BY THE PLAN COMMISSION AT A MEETING HELD _____ 20__ A.D.

_____
CHAIRMAN

_____
SECRETARY

APPROVED BY THE VILLAGE BOARD OF TRUSTEES AT A MEETING HELD _____

_____
PRESIDENT

_____
VILLAGE CLERK

APPROVED BY THE VILLAGE COLLECTOR

_____
VILLAGE COLLECTOR

APPROVED BY THE VILLAGE ENGINEER

_____
VILLAGE ENGINEER

SURVEYOR'S NOTES:

1. BASIS OF BEARINGS: STATE PLANE COORDINATE SYSTEM-ILLINOIS EAST ZONE.
2. NO MAJOR FEATURES SUCH AS RAILROAD LINES, AIRPORTS, WATER COURSES OR LAKES WERE LOCATED WITHIN CLOSE PROXIMITY OF THE SUBJECT PROPERTY.

PROFESSIONALS ASSOCIATED
PHONE: (847) 675-3000
FAX: (847) 675-2167
E-MAIL: pa@professionalsassociated.com
www.professionalsassociated.com

NORTH

PROFESSIONALS ASSOCIATED - MM SURVEY CO.

BOUNDARY*ALTA*TOPOGRAPHIC*CONDOMINIUM SURVEYS
7100 NORTH TRIPP AVENUE, LINCOLNWOOD, ILLINOIS
PROFESSIONAL DESIGN FIRM No. 184-005023

MM SURVEY
PHONE: (773) 282-5900
FAX: (773) 282-9424
E-MAIL: info@MMSurveyingChicago.com
www.mmsurveyingchicago.com

GRAPHIC SCALE
0 10 20 40
(IN FEET)
1 inch = 20 feet

PRELIMINARY PLAT OF
M. SERAFIN's SUBDIVISION

OF

THE EAST 175 FEET OF THE WEST 208 FEET OF THE NORTH 220 FEET OF THE SOUTH 420 FEET OF THE SOUTHWEST ¼ OF THE NORTHEAST ¼ OF THE SOUTHWEST ¼ OF SECTION 10, TOWNSHIP 41 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS.

TOTAL LAND AREA = 38,498 sq. ft. = 0.884 acre, more or less
P.I.N. 08-10-301-018-0000
COMMONLY KNOWN AS: 1515 S. DOUGLAS AVE., ARLINGTON HEIGHTS, IL. 60005

UTILITY COMPANIES CERTIFICATE

COMMONWEALTH EDISON COMPANY
EASEMENT APPROVED AND ACCEPTED

BY: _____ DATE: _____, 20__.

TITLE: _____

AT&T
EASEMENT APPROVED AND ACCEPTED

BY: _____ DATE: _____, 20__.

NICOR GAS
EASEMENT APPROVED AND ACCEPTED

BY: _____ DATE: _____, 20__.

TITLE: _____

COMCAST CABLE
EASEMENT APPROVED AND ACCEPTED

BY: _____ DATE: _____, 20__.

TITLE: _____

ASTOUND
EASEMENT APPROVED AND ACCEPTED

BY: _____ DATE: _____, 20__.

TITLE: _____

COUNTY CLERK'S CERTIFICATE

STATE OF ILLINOIS)
COUNTY OF COOK) SS

I, _____ COUNTY CLERK OF COOK COUNTY, ILLINOIS, DO HEREBY CERTIFY THAT THERE ARE NO DELIQUENT GENERAL TAXES, NO UNPAID CURRENT TAXES, NO UNPAID FORFEITED TAXES, AND NO REDEEMABLE TAX SALES AGAINST ANY OF THE LAND INCLUDED IN THE ANNEXED PLAT. I FURTHER CERTIFY THAT I HAVE RECEIVED ALL STATUTORY FEES IN CONNECTION WITH THE ANNEXED PLAT.

GIVEN UNDER MY NAME AND SEAL OF THE COUNTY CLERK AT CHICAGO, ILLINOIS, THIS _____ DAY OF _____, A.D. 20__.

_____
COUNTY CLERK

SURVEYOR'S CERTIFICATE

STATE OF ILLINOIS)
COUNTY OF COOK) SS

I, PAUL JAROS, AN ILLINOIS REGISTERED LAND SURVEYOR DO HEREBY CERTIFY THAT I HAVE SUPERVISED THE SURVEY AND SUBDIVISION OF THE FOLLOWING DESCRIBED PROPERTY:

THE EAST 175 FEET OF THE WEST 208 FEET OF THE NORTH 220 FEET OF THE SOUTH 420 FEET OF THE SOUTHWEST ¼ OF THE NORTHEAST ¼ OF THE SOUTHWEST ¼ OF SECTION 10, TOWNSHIP 41 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS.

TOTAL AREA : 38,498 SQ. FT. (0.884 acre, more or less).
ALL DISTANCES ARE SHOWN IN FEET AND DECIMAL PARTS THEREOF.

I ALSO CERTIFY THAT THE LAND IS WITHIN THE VILLAGE OF ARLINGTON HEIGHTS OR WITHIN ONE AND A HALF MILES OF THE CORPORATE LIMITS OF THE VILLAGE OF ARLINGTON HEIGHTS WHICH HAS ADOPTED A COMPREHENSIVE PLAN AND MAP AND IS EXERCISING THE SPECIAL POWERS AUTHORIZED BY DIVISION 12 OF ARTICLE 11 OF THE ILLINOIS MUNICIPAL CODE AS AMENDED.

I FURTHER CERTIFY UPON INSPECTION OF FLOOD INSURANCE RATE MAP NO. 17031C0211J, EFFECTIVE DATE AUGUST 19, 2008, IT APPEARS THAT ALL OF THE SUBJECT PROPERTY SHOWN HEREON LIES WITHIN ZONE "X" (AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD).

I FURTHER CERTIFY THAT I AM AN ILLINOIS PROFESSIONAL LAND SURVEYOR IN COMPLIANCE WITH THE LAWS OF THE STATE OF ILLINOIS, AND THAT THIS PLAT CORRECTLY REPRESENTS A SURVEY COMPLETED BY ME ON _____; THAT ALL MONUMENTS AND MARKERS SHOWN THEREON ACTUALLY EXISTS, AND THAT I HAVE ACCURATELY SHOWN THE MATERIALS THAT THEY ARE MADE OF.

GIVEN UNDER MY HAND AND SEAL AT LINCOLNWOOD, ILLINOIS THIS _____ DAY OF _____ A.D. 2026.

ILLINOIS REGISTERED PROFESSIONAL LAND SURVEYOR NO. 035-003937
MY LICENSE EXPIRES NOVEMBER 30, 2026

LAND SURVEYORS AUTHORIZATION

I, PAUL JAROS, AN ILLINOIS PROFESSIONAL LAND SURVEYOR OF THE STATE OF ILLINOIS, LICENSE NUMBER 035-003937, DO HEREBY AUTHORIZE THE CLERK OF THE VILLAGE OF ARLINGTON HEIGHTS, ITS STAFF OR AUTHORIZED AGENT TO PLACE THIS DOCUMENT OF RECORD IN THE COUNTY RECORDER'S OFFICE IN MY NAME AND IN COMPLIANCE WITH ILLINOIS STATUTES CHAPTER 109 PARAGRAPH 2, AS AMENDED.

GIVEN UNDER MY HAND AND SEAL THIS _____ DAY OF _____ A.D. 2026.

_____
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003937
EXPIRES: NOVEMBER 30, 2026

SCHOOL DISTRICT CERTIFICATE

STATE OF ILLINOIS)
COUNTY OF COOK) SS

PURSUANT TO SECTION 1.005 OF THE PLAT ACT, 765 ILCS 205, THIS DOCUMENT SHALL SERVE AS THE SCHOOL DISTRICT STATEMENT TO THE BEST OF THE OWNER'S KNOWLEDGE. THE TRACT OF LAND DESCRIBED IN THE ATTACHED PLAT LIES IN THE FOLLOWING SCHOOL DISTRICT(S):

ARLINGTON HEIGHTS SCHOOL DISTRICT #59
TOWNSHIP HIGH SCHOOL DISTRICT #214
HARPER COLLEGE COMMUNITY DISTRICT #512.

DATED THIS _____ DAY OF _____, A.D. 20__

_____
MARIEK SERAFIN, OWNER

NOTARY CERTIFICATE

STATE OF ILLINOIS)
COUNTY OF COOK) SS

BEFORE ME THE UNDERSIGNED NOTARY PUBLIC, IN AND FOR THE COUNTY AND STATE AFORESAID, PERSONALLY APPEARED _____ AND EACH SEPARATELY AND SEVERALLY ACKNOWLEDGED THE EXECUTION OF THE FOREGOING INSTRUMENT AS HIS OR HER VOLUNTARY ACT AND DEED, FOR THE PURPOSES THEREIN EXPRESSED.

WITNESS MY HAND AND NOTARIAL SEAL THIS_____DAY OF_____, A.D. 2026

_____
NOTARY PUBLIC

_____
COMMISSION EXPIRES

OWNERS CERTIFICATE

STATE OF ILLINOIS)
COUNTY OF COOK) SS

WE, THE UNDERSIGNED, _____, OWNERS OF THE REAL ESTATE SHOWN AND DESCRIBED HEREIN, DO HEREBY LAY OFF, PLAT AND SUBDIVIDE SAID REAL ESTATE IN ACCORDANCE WITH THE WITHIN PLAT. THIS SUBDIVISION SHALL BE KNOWN AND DESIGNATED AS M. SERAFIN'S SUBDIVISION, AN ADDITION TO THE VILLAGE OF ARLINGTON HEIGHTS, COOK COUNTY. ALL STREETS AND ALLEYS AND PUBLIC OPEN SPACES SHOWN AND NOT HERETOFORE DEDICATED ARE HEREBY DEDICATED TO THE PUBLIC. FRONT AND SIDE YARD BUILDING SETBACK LINES ARE ESTABLISHED AS SHOWN ON THIS PLAT, BETWEEN WHICH LINES AND THE PROPERTY LINES OF THE STREETS, THERE SHALL BE ERECTED OR MAINTAINED NO BUILDING OR STRUCTURE. THERE ARE STRIPS OF GROUND, _____ FEET IN WIDTH AS SHOWN ON THIS PLAT AND MARKED "EASEMENT" RESERVED FOR THE USE OF PUBLIC UTILITIES FOR THE INSTALLATION OF WATER AND SEWER MAINS, POLES, DUCTS, LINES AND WIRES, SUBJECT AT ALL TIMES TO THE PROPER AUTHORITIES AND TO THE EASEMENT HEREIN RESERVED. NO PERMANENT OR OTHER STRUCTURES ARE TO BE ERECTED OR MAINTAINED UPON THESE STRIPS OF LAND, BUT OWNERS OF LOTS IN THIS SUBDIVISION SHALL TAKE THEIR TITLES SUBJECT TO THE RIGHTS OF THE PUBLIC UTILITIES, AND TO THE RIGHTS OF THE OWNERS OF OTHER LOTS IN THIS SUBDIVISION.

THE FOREGOING COVENANTS (OR RESTRICTIONS), ARE TO RUN WITH THE LAND AND SHALL BE BINDING ON ALL PARTIES AND ALL PERSONS CLAIMING UNDER THEM UNTIL JANUARY 01, 20__, AT WHICH TIME SAID COVENANTS (OR RESTRICTIONS) SHALL BE AUTOMATICALLY EXTENDED FOR SUCCESSIVE PERIODS OF TEN YEARS UNLESS INDICATED OTHERWISE BY NEGATIVE VOTE OF A MAJORITY OF THE THEN OWNERS OF THE BUILDING SITES COVERED BY THESE COVENANTS (OR RESTRICTIONS), IN WHOLE OR IN PART, WHICH SAID VOTE WILL BE EVIDENCED BY A PETITION IN WRITING SIGNED BY THE OWNERS AND DULY RECORDED. INVALIDATION OF ANY ONE OF THE FOREGOING COVENANTS (OR RESTRICTIONS) BY JUDGEMENT OR COURT ORDER SHALL IN NO WAY AFFECT ANY OF THE VARIOUS COVENANTS (OR RESTRICTIONS), WHICH SHALL REMAIN IN FULL FORCE AND EFFECT.

THE RIGHTS TO ENFORCE THESE PROVISIONS BY INJUNCTION, TOGETHER WITH THE RIGHT TO CAUSE THE REMOVAL, BY DUE PROCESS OF LAW, OF ANY STRUCTURE OR PART THEREOF ERECTED OR MAINTAINED IN VIOLATION, IS HEREBY DEDICATED TO THE PUBLIC, AND RESERVED TO THE SEVERAL OWNERS OF THE SEVERAL LOTS IN THIS SUBDIVISION AND TO THEIR HEIRS AND ASSIGNS.

WITNESS OUR HANDS AND SEALS THIS _____ DAY OF _____, A.D. 20__.

BY: _____ TITLE: _____

ATTEST: _____ TITLE: _____

NOTARY CERTIFICATE

STATE OF ILLINOIS)
COUNTY OF COOK) SS

BEFORE ME THE UNDERSIGNED NOTARY PUBLIC, IN AND FOR THE COUNTY AND STATE AFORESAID, PERSONALLY APPEARED _____ AND EACH SEPARATELY AND SEVERALLY ACKNOWLEDGED THE EXECUTION OF THE FOREGOING INSTRUMENT AS HIS OR HER VOLUNTARY ACT AND DEED, FOR THE PURPOSES THEREIN EXPRESSED.

WITNESS MY HAND AND NOTARIAL SEAL THIS_____DAY OF_____, A.D. 2026

_____
NOTARY PUBLIC

_____
COMMISSION EXPIRES

LEGEND:
R.O.W. RIGHT OF WAY
SOLID LINE (PROPERTY LINE, RIGHT OF WAY LINE)
LONG DASH SHORT (STREET CENTER LINE)
SHORT DASH SHORT (ORIGINAL LOT LINES)
DASHED (IX) (EASEMENT LINE)
DOTS (LEAD ARROWS)
HATCH (AREA TO BE SUBDIVIDED)

SUBMITTED BY/ RETURN TO:
VILLAGE OF ARLINGTON HEIGHTS
33 S. ARLINGTON HEIGHTS RD.
ARLINGTON HEIGHTS, ILLINOIS 60005

SEND TAX BILL TO:
MARIEK SERAFIN
675 W. GILBERT RD.
PALATINE, IL. 60067

PROFESSIONALS ASSOCIATED - MM SURVEY CO.
ORDER NO: 109428

DATE:	REVISIONS
24 September 2024	PRELIMINARY PLAT
21 March 2025	New Signature Blocks, Easements on adjoining properties
23 October 2025	Re-configuration of Lots, Addition of Storm Water Detention Lot and Drainage Easement
06 January 2026	Edited Building Lines, Changed line weight of Lot lines, identified basis of bearings
12 January 2026	Added Line Bearings and Corner Coordinates
16 February 2026	Added Utility Easements/Revised Signature Blocks
03 March 2026	Added Utility Easements in Outlot 3, Land Area of Easements/Removed Hatch/Edited Line Weights

EXHIBIT C

Engineering Plans

SITE IMPROVEMENT PLANS M.SERAFIN SUBDIVISION

1515 S. DOUGLAS AVE, ARLINGTON HEIGHTS, ILLINOIS

LEGAL DESCRIPTION

THE EAST 175 FEET OF THE WEST 208 FEET OF THE NORTH 220 FEET OF THE SOUTH 420 FEET OF THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 19, TOWNSHIP 41 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS.

ADDRESS

1515 S DOUGLAS AVE
ARLINGTON HEIGHTS, IL

PARCEL IDENTIFICATION NUMBER

08-19-201-018-0000

AREA

38,498 SQ. FT OR 0.884 ACRE

SURVEYOR

MM SURVEY COMPANY
7100 N. TRIPP AVENUE
LINCOLNWOOD, IL 60712

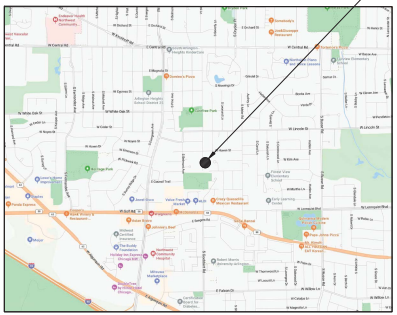
CIVIL ENGINEER

KRUENG DESIGN PLLC
13389 MCCARTHY ROAD
LEMONT, ILLINOIS
KUSTUPSKJ@GMAIL.COM

GENERAL NOTES

1. CALL JULIE 1-800-892-0123 BEFORE EXCAVATING.
2. GENERAL CONTRACTOR TO PROMPTLY REMOVE ANY EXCAVATED MATERIAL NOT REQUIRED FOR SITE BACKFILL.
3. GENERAL CONTRACTOR IS RESPONSIBLE FOR KEEPING ROADWAY FREE OF EXCESSIVE DEBRIS AT ALL TIMES. STREET SHOULD BE OPEN TO TRAFFIC AT ALL TIMES.
4. ALL UTILITY STRUCTURES, POWER POLE, FIRE HYDRANTS, TREES, & ETC. AFFECTED BY THE IMPROVEMENT ARE TO BE RELOCATED AT DEVELOPERS OR HOMEOWNER'S EXPENSE.
5. NO CONCENTRATED DISCHARGE OF STORM WATER TO ADJACENT PROPERTIES SHALL BE ALLOWED. ALL STORM DRAINAGE SHALL BE CONVEYED TOWARD FRONT OR REAR OF PROPERTY SO IT DOES NOT ADVERSELY AFFECT ADJACENT PROPERTIES.
6. IDOT STANDARDS FOR TRAFFIC CONTROL DEVICES SHALL BE USED FOR ALL OBSTRUCTIVE STREET WORK.
7. GENERAL CONTRACTOR SHALL NOTIFY CITY / VILLAGE PRIOR TO THE START OF CONSTRUCTION.
8. ALL SITE IMPROVEMENTS MUST CONFORM TO THE GOVERNING VILLAGE'S OR CITY'S ENGINEERING STANDARDS AND SPECIFICATIONS.
9. REFER TO THE APPROVED ZONING APPLICATION FOR ALL SETBACK DIMENSIONS.
10. ANY EXISTING BROKEN OR CRACKED SIDEWALK SQUARES AND/OR DAMAGED SIDEWALK RESULTING FROM THE PROPOSED IMPROVEMENTS MUST BE REMOVED AND REPLACED TO THE SATISFACTION OF THE VILLAGE PUBLIC IMPROVEMENT INSPECTOR. THE SIDEWALK SHALL BE COMPRISED OF FIVE-INCHES OF CLASS SI CONCRETE, SIX-INCHES THROUGH DRIVEWAYS, OVER A THREE-INCH COMPACTED CA-6 STONE BASE. THE SIDEWALK SHOULD DRAIN AT ¼" PER FOOT TOWARD THE ROADWAY.
11. AGGREGATE BASE COURSE FOR DRIVEWAY & SIDEWALKS SHALL CONSIST OF MINIMUM 4" CA-6 COMPACTED TO 95% STANDARD PROCTOR DENSITY.
12. THE CONTRACTOR MUST CONTACT THE PERMIT COORDINATORS AT LEAST 48 HOURS IN ADVANCE TO SCHEDULE INSPECTIONS FOR ALL PROPOSED SANITARY SEWER, WATER SERVICE, STORM SEWER AND ASPHALT BINDER COURSE, CURB, FINAL GRADING AND DRIVEWAY/PATIOS/WALKS INSTALLATION.
13. ALL VEHICLES ASSOCIATED WITH ANY CONSTRUCTION PROJECT IN RESIDENTIAL AREAS SHALL BE REQUIRED TO PARK ON THE SITE UNLESS OTHERWISE ALLOWED BY CITY / VILLAGE.
14. ALL WORK MUST BE PERFORMED ACCORDING TO THE APPROVED DEMOLITION / DEVELOPMENT / TREE PRESERVATION PLAN.
15. AN APPROVED DEMOLITION / DEVELOPMENT / TREE PRESERVATION PLAN MUST BE AVAILABLE ON THE BUILDING SITE.
16. STAY WITHIN DESIGNATED WORK ACCESS AREAS SHOWN ON THE PLAN.
17. ALL UTILITY STRUCTURES, POWER POLES, FIRE HYDRANTS, TREES, ETC. AFFECTED BY THE IMPROVEMENT ARE TO BE RELOCATED AT DEVELOPER'S OR HOMEOWNER'S EXPENSE.
18. ALL WORK SHALL BE COMPLETED SAFELY AND IN COMPLIANCE WITH OSHA, IDOT, ADA, AND LOCAL GOVERNING VILLAGE/TOWNSHIP/CITY STANDARDS.
19. ALL WORK SHALL BE IN COMPLIANCE WITH THE CURRENT VERSION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS AND THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS.

LOCATION MAP



PLANS SHALL BE GEOREFERENCED USING THE STATE PLAN COORDINATE SYSTEM

PROJECTED COORDINATE SYSTEM: NAD_1983_STATEPLANE_ILLINOIS_EAST_FIPS_1201_FEET
PROJECTION: TRANSVERSE_MERCATOR
FALSE_EASTING: 984250.00000000
FALSE_NORTHING: 0.00000000
CENTRAL_MERIDIAN: -88.33333333
SCALE_FACTOR: 0.99997500
LATITUDE_OF_ORIGIN: 36.66666667
LINEAR UNIT: FOOT_US

LEGEND

	EXISTING	PROPOSED
STORM SEWER		
SANITARY SEWER		
WATER LINE		
ELECTRIC LINE		
GAS LINE		
FIBER OPTIC		
OVERHEAD LINE		
FENCE		
CONTOUR	722	722
SANITARY MANHOLE		
INLET		
CURB INLET		
CATCH BASIN		
STORM MANHOLE		
CULVERT END SECTION		
FIRE HYDRANT		
WATER VALVE VAULT		
WATER VALVE BOX		
B-BOX		
THRUST BLOCK		
TREE		
DRAINAGE DIRECTION		
DRAINAGE SUMMIT		
BENCHMARK		
PROPOSED GRADE	XXX.XX	

IF DISCREPANCIES ARE DISCOVERED BETWEEN ACTUAL FIELD CONDITIONS AND THE SURVEY DATA OR PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER PRIOR TO PROCEEDING WITH ANY AFFECTED WORK.

EXISTING WATER MAIN DEPTHS AND SEWER INVERT ELEVATIONS ARE BASED ON LIMITED AVAILABLE INFORMATION AND SHALL BE FIELD-VERIFIED BY THE CONTRACTOR PRIOR TO INSTALLATION OF PROPOSED IMPROVEMENTS. THE CONTRACTOR SHALL NOT PROCEED WITH CONSTRUCTION UNTIL SUCH VERIFICATION HAS BEEN COMPLETED AND ANY CONFLICTS HAVE BEEN REVIEWED AND RESOLVED BY THE ENGINEER.

DRAWING INDEX

SHEET	TITLE
1	COVER SHEET
2	EXISTING CONDITIONS PLAN
3	REMOVAL PLAN
4	PROPOSED GEOMETRIC & UTILITY PLAN
5	PROPOSED GRADING PLAN
6	EROSION CONTROL PLAN
7	TREE PRESERVATION PLAN
8	CONSTRUCTION DETAILS

SURFACE WATER DRAINAGE CERTIFICATE

STATE OF ILLINOIS
COUNTY OF COOK

TO THE BEST OF OUR KNOWLEDGE AND BELIEF THE DRAINAGE OF SURFACE WATERS WILL NOT BE CHANGED BY THE CONSTRUCTION OF THESE LOT IMPROVEMENTS OR ANY PART THEREOF, OR THAT IF SUCH SURFACE WATER DRAINAGE WILL BE CHANGED, REASONABLE PROVISIONS HAVE BEEN MADE FOR THE COLLECTION AND DIVERSION OF SUCH WATERS INTO PUBLIC AREAS OR DRAINS WHICH THE OWNER HAS A RIGHT TO USE, AND THAT SUCH SURFACE WATERS WILL BE PLANNED FOR IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES SO AS TO REDUCE THE LIKELIHOOD OF DAMAGE TO THE ADJOINING PROPERTIES BECAUSE OF THE CONSTRUCTION OF THESE LOT IMPROVEMENTS.

DATED 25TH DAY OF JUNE, 2025

ORIGINAL ISSUE DATE: 10-30-2024

NO.	DATE	DESCRIPTION
1	11/20/24	REVISION 1
2	12/27/24	REVISION 2
3	8/27/25	REVISION 3
4	8/27/25	REVISION 4
5	10/29/25	REVISION 5
6	11/19/25	REVISION 6
7	2/11/26	REVISION 7
8	2/26/26	REVISION 8

KRUENG
LICENSE NO: 184.009297-0002

EXPIRES: 11/30/2027

COVER SHEET

1515 S. DOUGLAS AVE, ARLINGTON HEIGHTS, IL

JOB NO:	24-23
DESIGN BY:	KU
DRAWN BY:	KU
SCALE:	N.T.S.

SHEET 1 OF 8

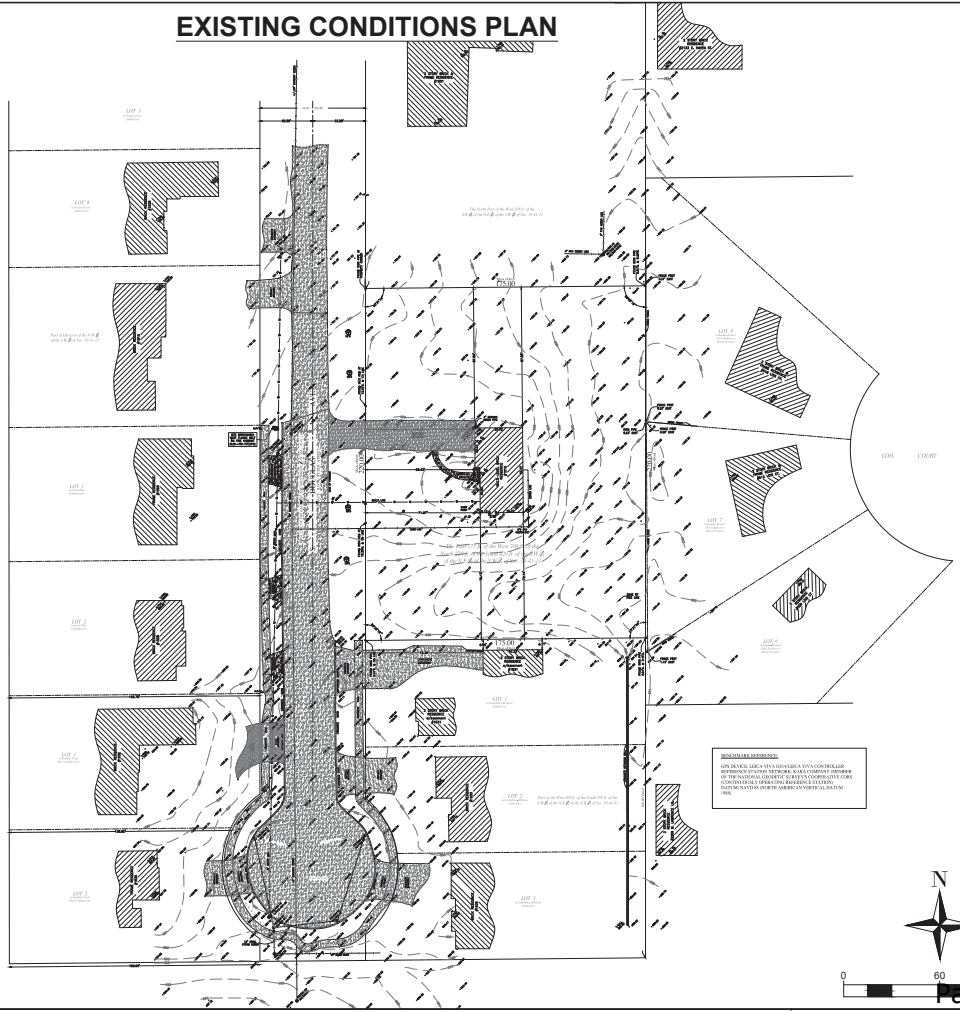
E:\24-23 Arlington Heights (1515 S Douglas Ave)\CAD\Model\C-1 Cover Sheet.dwg 2/26/2026

EXISTING CONDITIONS PLAN

EXISTING IMPERVIOUS AREA SUMMARY

- DRIVEWAY: 1,263 SF
- PATIO / FRONT SIDEWALK: 147 SF
- HOUSE: 1,513 SF

TOTAL: 2,913 SF



REMOVAL PLAN

N

0 60 120 Feet

NO.	DATE	DESCRIPTION
1	7/3/25	REVISION 1
2	8/27/25	REVISION 2
3	10/30/25	REVISION 3
4	11/19/25	REVISION 4
5	1/7/26	REVISION 5
6	2/26/26	REVISION 6

ORIGINAL ISSUE DATE: 10-30-2024

KRUENG

LICENSE NO: 184.009201-C4002

EXPIRES: 11/30/2027

REMOVAL PLAN

1515 S. DOUGLAS AVE, ARLINGTON HEIGHTS, IL

JOB NO:	24-23
DESIGN BY:	KU
DRAWN BY:	KU
SCALE:	1" = 30'

3 OF 8

E:\24-23 Arlington Heights (1515 S Douglas Ave)\CAD\Model\C-3 (Removal Plan).dwg, 2/26/2026

GEOMETRIC & UTILITY PLAN

LEGEND

RE-SURFACING LIMIT
(REMOVE AND REPLACE 2.0" SURFACE COURSE, MIN)

FULL DEPTH RE-CONSTRUCTION LIMIT
(REFER TO TYPICAL PAVEMENT SECTION)

UTILITY NOTES

1. ALL BASEMENTS MUST HAVE A SEWER EJECTOR AND OVERHEAD SEWER SYSTEM.
2. ALL DOWNSPOUTS AND SUMP PUMPS SHALL BE DISCHARGED ONTO GRADE.
3. DOWNSPOUTS TO BE PIPED TO GRADE, BE DIRECTED TOWARD THE FRONT OR REAR OF THE HOME, NOT DISCHARGED WITHIN 10' OF THE PROPERTY LINES AND NOT CONNECT TO THE EXTERIOR STONES.
4. ALL EXISTING WATER SERVICES SHALL BE ABANDONED. ALL PROPOSED CONNECTIONS TO MAKE A SECTION OF THE MAIN REPLACED WITH A WYE SECTION.
5. ALL SEWER, WATER, AND GAS UTILITIES TO BE FITTEN (10) FEET FROM MATURE TREES AND FIVE (5) FEET FROM SHRUBS AND SMALL TREES UNLESS OTHERWISE NOTED ON THE ENGINEERING.
6. MINIMUM 18" DISTANCE BETWEEN NEW SANITARY AND WATER SERVICES.
7. ALL UTILITIES SHALL BE INSTALLED UNDERGROUND.
8. PLUMBER TO VERIFY TIE-IN ELEVATIONS FOR STORM AND SANITARY BEFORE PLACING SEWER PIPE.
9. ALL WATER MAIN BENDS, VALVES, CROSSINGS, ELBOWS, OR LONG-SWEEP MJ/SLEEVED FITTINGS TO ACCOMMODATE CHANGES IN DIRECTION.
10. ALL WORK PLUMBING MUST MEET ILLINOIS PLUMBING CODE.
11. ALL BASEMENTS MUST HAVE A MINIMUM OF 8' OF COVER DEPTH.
12. CONTACT PUBLIC WORKS AT LEAST 72 HOURS PRIOR TO REQUEST A MAIN TAP.
13. WATER & SANITARY SERVICES MUST BE INSTALLED BY A LICENSED PLUMBER.
14. CONTACT PUBLIC WORKS AT LEAST 48 HOURS PRIOR TO CONSTRUCTION (NAME, ADDRESS & PHONE NUMBER) AT LEAST ONE WEEK IN ADVANCE TO ALL AFFECTED RESIDENTS WHOSE FRONTAGE WILL BE DISTURBED TO PREPARE ANY SPECIFIC UTILITY SERVICE CONNECTION WORK ASSOCIATED WITH THE SUBJECT PROJECT. THE NOTIFICATION MUST STATE THE DATE THAT THE FINAL SURFACE RESTORATION WILL BE COMPLETED. THE NOTIFICATION MUST STATE THE DATE THAT THE FINAL SURFACE RESTORATION WILL BE COMPLETED. THE CONTRACTOR SHALL NOT BEGIN CONSTRUCTION UNTIL THE CONTRACTOR HAS BEEN ISSUED PERMITTING. A COPY OF SAID CORRESPONDENCE MUST ALSO BE PROVIDED TO THE ENGINEERING CONSULTANT. ATTN: PUBLIC IMPROVEMENTS INSPECTOR, ONE WEEK BEFORE THE WORK IS TO BE HEREDIMENT.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR OVERHEAD UTILITIES AND SHALL NOTIFY ALL UTILITIES AT LEAST 72 HOURS PRIOR TO THE START OF CONSTRUCTION. CONSTRUCTION SHALL BE REPAIRED TO THE SATISFACTION OF THE VILLAGE AND THE OWNER, OR REPLACED AT THE CONTRACTOR'S OWN EXPENSE.

15.1 - WATER - TYPE 'K' COPPER TUBING.

15.2 - SEWER - TYPE 'K' COPPER

15.2 - SANITARY - PVC SDR 26 PIPE CONFORMING TO ASTM D-3034 WITH GASKET JOINTS CONFORMING TO ASTM D-3212 AND CONFORMING TO ASTM F-477 GASKET MATERIALS.

15.3 - STORM - PVC SCH 40 PIPE CONFORMING TO ASTM D-3034 WITH GASKET JOINTS CONFORMING TO ASTM D-3212.

17. THE PROPOSED STORM/SANITARY SERVICE CONNECTION TO THE EXISTING SEWER LINE SHALL BE MADE WITH A SEWER TAP MACHINE WITH FOR-SIDO STAINLESS STEEL SADDLE.
18. SUMP PUMP IS TO BE CONNECTED TO THE PROPOSED STORM SEWER SERVICE UTILIZING 4-INCH PVC SCH 40 PIPE
19. TO PREVENT "FLOATING" OF PVC PIPING, ONLY JUST SELECT EARTH BACKFILL AND BEDDING WITH THE PROPER COMPACTION SHALL BE PERMITTED AROUND THE PIPE AND STRUCTURES.
20. PROTECT ALL EXISTING AND NEW DRAIN LINES USING ADEQUATE GRADE INLET FILTERS.
21. THE EXISTING WATER SERVICE DISCONNECTION AND THE PROPOSED WATER SERVICE CONNECTION SHALL BE MADE BY THE VILLAGE.
22. THE PROPOSED SERVICE CONNECTION MUST BE AT LEAST 10' FROM THE MJ SERVICE DISCONNECTION
23. THE EXISTING SUBJA SHALL BE COMPLETELY REMOVED AND A NEW SUBJA SHALL BE PROVIDED IN A LOCATION AS SHOWN ON THE PLANS.
24. NEW WATER SERVICE CONNECTION MUST BE A MINIMUM OF LATEST FROM A FIRE HYDRANT
25. THE PROPOSED WATER SERVICE SHALL BE ADDRESS UNDER THE ROAD OF THE WATER MAIN IS ON THE OTHER SIDE OF THE ROADWAY.
26. WATER DISCONNECTION, TAP INSPECTION, WATER METER INSTALLATION AND FINAL SUBJA INSPECTION SHALL BE SCHEDULED WITH PUBLIC WORKS AT LEAST 48 HOURS IN ADVANCE.
27. ALL WATER MAIN CROSSINGS SHALL MEET EPA REQUIREMENTS.

AVERAGE SETBACK CALCULATION

PER ARLINGTON HEIGHTS:
1515 DOUGLAS AVE – 68.42' FRONT SETBACK
1521 DOUGLAS AVE – 29' FRONT SETBACK
1527 DOUGLAS AVE – 29' FRONT SETBACK
1533 DOUGLAS AVE – 29' FRONT SETBACK
AVERAGE SETBACK CALCULATION
(68.42+29+29+29)/4=38.62

38.62' / 4 = 39.67'

FLOOR AREA RATIO (FAR):
FAR = (BUILDING FLOOR AREA) / (LOT AREA)

LOT 1
BUILDING FLOOR AREA:
- 1ST FLOOR: 1,901 SF
- 2ND FLOOR: 2,787 SF
- GARAGE: 484 SF
- BASEMENT: 1,953 SF (EXCLUDED)

FAR = (1,901 SF + 2,787 SF + 691 SF) / (7179 FT)(79 FT)) = 0.39

LOT 2
BUILDING FLOOR AREA:
- EX. BUILDING FOOTPRINT: 1,514 SF
- 1ST FLOOR ADDITION: 442 SF
- 2ND FLOOR ADDITION: 1,196 SF
- GARAGE ADDITION: 731 SF

FAR = (1,514 SF + 442 SF + 1,196 SF + 731 SF) / (1175 FT)(200 FT)) = 0.28

PROPOSED IMPERVIOUS AREA SUMMARY

LOT 1
- STRUCTURE: 3,788 SF
- FRONT STEPS: 85 SF
- REAR DECK AND STEPS: 279 SF
- HMA DRIVEWAY: 1,671 SF

TOTAL: 4,818 SF

LOT 2
- STRUCTURE: 3,093 SF
- FRONT WALK / STEPS: 211 SF
- REAR DECK AND STEPS: 244 SF
- HMA DRIVEWAY: 1,036 SF
- RETAINING WALL: 87 SF

TOTAL: 4,663 SF

BUILDING LOT COVERAGE SUMMARY

LOT 1
- STRUCTURE: 3,788 SF
- COVERED FRONT PORCH: 93 SF
- COVERED REAR DECK: 352 SF

TOTAL: 3,993 SF

LOT COVERAGE: (3,993)/(13,129) = 0.34

LOT 2
- STRUCTURE: 2,993 SF

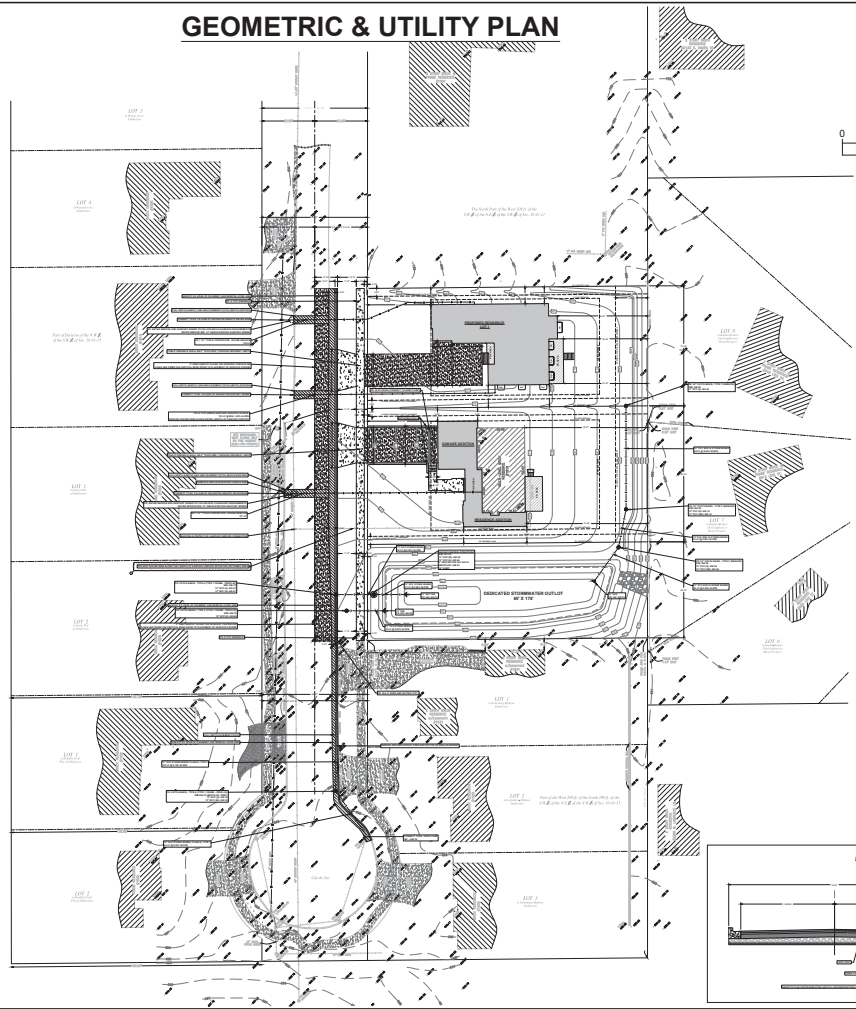
TOTAL: 2,993 SF

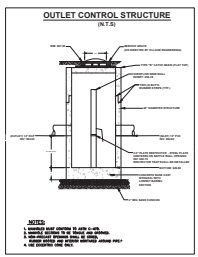
LOT COVERAGE: (2,993)/(14,875) = 0.20

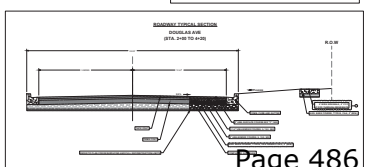
PROPOSED BUILDING HEIGHTS

LOT 1: 25.00'
LOT 2: 23.31'

REFER TO ARCHITECTURAL DRAWINGS FOR DETAILED FOUNDATION DIMENSIONS AND STEPS







ORIGINAL ISSUE DATE: 10+30+2024		
NO.	DATE	DESCRIPTION
1	11/25/25	REVISION 1
2	8/27/25	REVISION 4
3	10/29/25	REVISION 5
4	12/1/25	REVISION 6
5	2/11/26	REVISION 7
6	2/26/26	REVISION 8

KRUENG

LICENSED NO: 184-0010971-C4R2

EXPIRES: 11/30/2027

PROPOSED GEOMETRIC & UTILITY PLAN

1515 S. DOUGLAS AVE, ARLINGTON HEIGHTS, IL

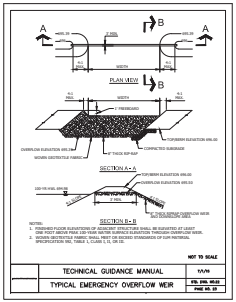
JOB NO:	24-23
DESIGN BY:	KU
DRAWN BY:	KU
SCALE:	1" = 30'

C-4

GRADING PLAN

GRADING NOTES:

1. CALL J.U.L.I.E. FOR UTILITY LOCATIONS BEFORE DIGGING OR TREE PLANTING.
2. PROPOSED GROUND ELEVATION AT FOUNDATIONS AS NOTED ON PLANS. PROPOSED ELEVATIONS ARE TOP OF SOD OR GRAVEL/ FINISHED DIRT GRADE IN LAWN AREAS SHALL BE 3" BELOW TOP OF SOD.
3. SLOPE OF GRADE AT 5% MINIMUM AWAY FROM BUILDING FOR 10 FEET MINIMUM BY GUTTERS, AND SUMMSPOUTS ARE TO DISCHARGE AT A MINIMUM OF 10 FEET FROM LOW POINT OF LOT.
4. ALL NEW PLANTINGS SHALL CONFORM TO THE MOST RECENTLY ADOPTED AMERICAN STANDARD FOR NURSERY STOCK.
5. NO WOOD CHIPS OR MULCH IN VERIFIED DRAINAGE SWALE AREAS.
6. ROOF DRAINAGE SHALL BE DIRECTED AWAY FROM TOWARD FRONT OR REAR OF PROPERTY SO IT DOES NOT ADVERSELY AFFECT ADJACENT PROPERTIES.
7. RUNOFF FROM ROOF OF NEW STRUCTURE TO BE COLLECTED BY GUTTERS, AND SUMMSPOUTS ARE TO DISCHARGE IN THE FRONT AND REAR DIRECTIONS ONLY. THE LOCATIONS OF PROPOSED SUMMSPOUTS ARE SHOWN ON THE PLAT.
8. CONTRACTOR MUST CONTACT THE CITY / VILLAGE TO SCHEDULE INSPECTIONS FOR PROPOSED GRADING WORK.
9. EXCEPT AS NOTED ON THIS PLAN, THERE IS TO BE NO ALTERATION OF EXISTING GRADES ELEVATION ANYWHERE ON THE SUBJECT PROPERTY IN ORDER TO MAINTAIN THE EXISTING DRAINAGE PATTERN AND NOT OBSTRUCT ANY TRIBUTARY DRAINAGE FROM THE SURROUNDING PROPERTIES.
10. ALL TRIBUTARY AREAS FROM ADJACENT PROPERTIES WILL CONTINUE TO DRAIN INTO THE SUBJECT PROPERTY AND THROUGH THE PROPOSED DRAINAGE SYSTEM AS SHOWN ON THE APPROVED GRADING PLAN.
11. INSTALL SILT CONTROL FENCING AROUND ALL AREAS THAT WILL BE DISTURBED BY CONSTRUCTION PRIOR TO COMMENCING WORK. REFER TO THE DETAIL SHEET FOR SILT CONTROL FENCING INSTALLATION. VILLAGE INSPECTOR OF INSTALLED SILT CONTROL FENCING WILL BE REQUIRED PRIOR TO THE ISSUANCE OF THE BUILDING PERMIT.
12. ALL DISTURBED PARKWAY LAWN AREAS WILL BE RESTORED WITH INCHES OF TOPSOIL & SOD WITHIN FIVE (5) DAYS OF COMPLETION OF PERTINENT WORK, WEATHER PERMITTING. ALL SOD MUST BE WATERED TO SUSTAIN GROWTH.
13. GRADE SHALL BE MATCHED AT ALL NEIGHBORING PROPERTY LINES.
14. AREAS TO BE GRADED AND PREPARED FOR SEEDING OR SOD SHALL INCLUDE A MINIMUM OF FOUR (4) INCHES OF TOP SOIL.
15. DRAINAGE SWALES SHALL BE CONSTRUCTED OF ESTABLISHED VEGETATION (SOD OR NATIVE VEGETATION)



ORIGINAL ISSUE DATE: 10+30+2024		
NO.	DATE	DESCRIPTION
1	5/30/25	REVISION 1
2	6/27/25	REVISION 2
3	8/27/25	REVISION 3
4	10/29/25	REVISION 4
5	12/3/25	REVISION 5
6	2/11/26	REVISION 6
7	2/11/26	REVISION 7
8	2/26/26	REVISION 8

KRUENG

LICENSED NO: 184.005207-LIEC

EXPIRES: 11/30/2027

PROPOSED GRADING PLAN

1515 S. DOUGLAS AVE, ARLINGTON HEIGHTS, IL

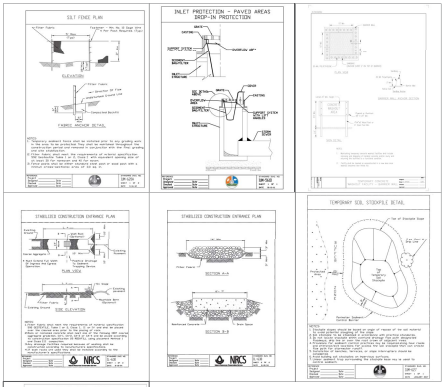
JOB NO:	24-23
DESIGN BY:	KU
DRAWN BY:	KU
SCALE:	1" = 30'

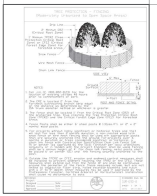
0 60 120 Feet

5 of 8

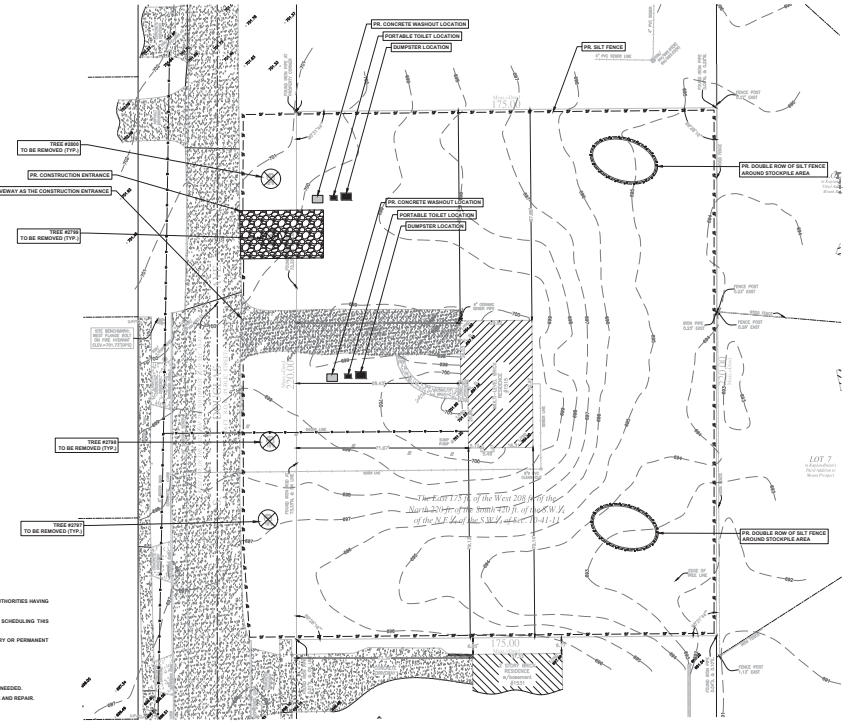
E:\24-23 Arlington Heights (1515 S Douglas Ave)\CAD\Model\C-5 (Proposed Grading).dwg 2/26/2026

SESC DETAILS





SESC PLAN



SOIL EROSION / SEDIMENT CONTROL NOTES

1. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE ILLINOIS URBAN MANUAL, LATEST EDITION, AND ALL OTHER AUTHORITIES HAVING JURISDICTION AND THE VILLAGE OF ARLINGTON HEIGHTS.
2. AN INITIAL SESC INSPECTION IS REQUIRED PRIOR TO STARTING CONSTRUCTION. THE APPLICANT IS DIRECTED TO CONTACT THE COMMUNITY DEVELOPMENT DEPARTMENT AT (630) 434-5529 PRIOR TO SCHEDULING THIS INSPECTION. THIS NOTIFICATION SHALL BE AT LEAST 24 HOURS PRIOR ANY LAND IS DISTURBED ON THE SITE.
3. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF THE YEAR, SITE CONDITIONS AND USE OF TEMPORARY OR PERMANENT MEASURES.
4. SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CONSTRUCTED BEFORE ANY WORK BEGINS ON SITE.
5. THE GENERAL CONTRACTOR SHALL INSPECT THE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES EVERY 7 DAYS AND AFTER 0.5" OR MORE RAINFALL.
6. ALL STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.
7. ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.
8. ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS NEEDED. THE GENERAL CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR THE MAINTENANCE AND REPAIR.
9. ALL CONSTRUCTION TRAFFIC SHALL ENTER THE SITE ONLY AT PROPOSED CONSTRUCTION ENTRANCE(S) AS SHOWN ON PLANS.
10. ALL DIRT, MUD, OR DEBRIS THAT REACHES THE PUBLIC ROADS SHALL BE IMMEDIATELY CLEANED BY THE CONTRACTOR.
11. STOCKPILES SHALL NOT BE LOCATED IN A FLOOD PRONE AREA OR A DESIGNATED BUFFER PROTECTING WATERS OF THE UNITED STATES.
12. IF A TOPSOIL STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN 3 DAYS, IT MUST BE ENCLOSED BY SILT FENCE.
13. ALL TREES THAT ARE NOT TO BE REMOVED SHALL BE PROTECTED AS NEEDED. SEE TREE PROTECTION DETAIL.
14. A CONCRETE WASHOUT AREA SHALL BE PROVIDED ON-SITE. CONCRETE CANNOT BE WASHED OUT ANYWHERE BUT IN THE WASHOUT AREA.
15. SUBMERSIBLE PUMPS USED DURING CONSTRUCTION MUST DISCHARGE ONTO A STABILIZED SURFACE AND HAVE AN APPROVED SEDIMENT FILTER BAG CONNECTED TO THE DISCHARGE HOSE.
16. AN INITIAL SEDIMENTATION AND EROSION CONTROL INSPECTION IS REQUIRED PRIOR TO STARTING CONSTRUCTION. THE APPLICANT IS DIRECTED TO CONTACT THE COMMUNITY DEVELOPMENT DEPARTMENT AT 630-434-5529 TO SCHEDULE THIS INSPECTION; THIS NOTIFICATION SHALL BE AT LEAST 24 HOURS IN ADVANCE OF CONSTRUCTION.
17. THE SEDIMENT AND EROSION CONTROL DEVICES SHALL BE FUNCTIONAL BEFORE ANY LAND IS DISTURBED ON THE SITE.
18. STOCKPILES OF SOIL SHALL NOT BE LOCATED WITHIN ANY DRAINAGE WAYS, FLOODPLAINS, WETLANDS, BUFFERS OR LPDAS.
19. SEDIMENT AND EROSION CONTROL SHALL BE PROVIDED FOR ANY SOIL STOCKPILE IF IT IS TO REMAIN IN PLACE FOR MORE THAN THREE DAYS INCLUDING A DOUBLE ROW OF SILT FENCE OR.
20. PROPERTIES DOWNSTREAM FROM THE SITE SHALL BE PROTECTED FROM EROSION IF THE VOLUME, VELOCITY, SEDIMENT LOAD, OR PEAK FLOW RATES OF STORMWATER RUNOFF ARE TEMPORARILY INCREASED DURING CONSTRUCTION.
21. STORM SEWER INLETS SHALL BE PROTECTED WITH SEDIMENT TRAPPING OR FILTER CONTROL DEVICES DURING CONSTRUCTION.
22. THE SURFACE OF STRIPPED AREAS SHALL BE PERMANENTLY OR TEMPORARILY PROTECTED FROM SOIL EROSION WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED. STRIPPED AREAS THAT WILL REMAIN UNDISTURBED FOR MORE THAN SEVEN (7) DAYS AFTER INITIAL DISTURBANCE SHALL BE PROTECTED FROM EROSION.
23. WATER PUMPED OR OTHERWISE DISCHARGED FROM THE SITE DURING CONSTRUCTION DEWATERING SHALL BE FILTERED.
24. A STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROVIDED TO PREVENT THE DEPOSITION OF SOIL ONTO PUBLIC OR PRIVATE ROADWAYS. ANY SOIL REACHING A PUBLIC OR PRIVATE ROADWAY SHALL BE REMOVED BEFORE THE END OF EACH WORKDAY.
25. ALL TEMPORARY EROSION CONTROL MEASURES NECESSARY TO MEET THE REQUIREMENTS OF THE VILLAGE OF DOWNERS GROVE STORMWATER AND FLOOD PLAIN ORDINANCE SHALL BE KEPT OPERATIONAL AND MAINTAINED CONTINUOUSLY THROUGHOUT THE PERIOD OF LAND DISTURBANCE UNTIL PERMANENT SEDIMENT AND EROSION AND CONTROL MEASURES ARE OPERATIONAL.
26. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER FINAL STABILIZATION IS ACHIEVED. TRAPPED SEDIMENT AND OTHER DISTURBED SOILS RESULTING FROM TEMPORARY MEASURES SHALL BE PROPERLY DISPOSED OF PRIOR TO PERMANENT STABILIZATION.

TYPICAL CONSTRUCTION SEQUENCE

1. INSTALLATION OF SESC MEASURES.
2. SELECTIVE VEGETATION REMOVAL FOR SILT FENCE INSTALLATION.
3. SILT FENCE INSTALLATION.
4. CONSTRUCTION FENCING AROUND AREAS NOT TO BE DISTURBED.
5. STABILIZED CONSTRUCTION ENTRANCE INSTALLATION.
6. TREE REMOVAL WHERE NECESSARY.
7. CONSTRUCT SEDIMENT TRAPPING DEVICES AND PCBMPS (SEDIMENT TRAPS, DRYWELLS, BASINS, ETC.)
8. PLACE SILT FENCE AROUND PCBMPS.
9. TEMPORARILY STABILIZE TOPSOIL STOCKPILES.
10. INSTALL STORM SEWER, SANITARY SEWER, WATER AND ASSOCIATED INLET / OUTLET PROTECTION.
11. TEMPORARILY STABILIZE ALL AREAS INCLUDING LOTS THAT HAVE REACHED TEMPORARY GRADE.
12. INSTALL ROADWAYS.
13. PERMANENTLY STABILIZE ALL OUTLOT AREAS.
14. INSTALL STRUCTURES AND GRADE INDIVIDUAL LOTS.
15. PERMANENTLY STABILIZE LOTS.
16. REMOVE ALL TEMPORARY SESC MEASURES AFTER THE SITE IS STABILIZED WITH VEGETATION.

SESC LEGEND

- SF — SILT FENCE
- TREE PROTECTION FENCE
- 6-FT CHAIN LINK FENCE
- INLET PROTECTION

N

0 40 80 160 240

SCALE: 1" = 80'

ORIGINAL ISSUE DATE: 10-30-2024		
NO.	DATE	DESCRIPTION
1	3/3/25	REVISION 1
2	4/4/25	REVISION 2
3	6/27/25	REVISION 3
4	8/27/25	REVISION 4
5	10/29/25	REVISION 5
6	12/1/25	REVISION 6
7	2/11/26	REVISION 7
8	2/26/26	REVISION 8

KRUENG

LICENSED NO: 184.005201-C4002

EXPIRES: 11/30/2027

SESC PLAN

1515 S. DOUGLAS AVE, ARLINGTON HEIGHTS, IL

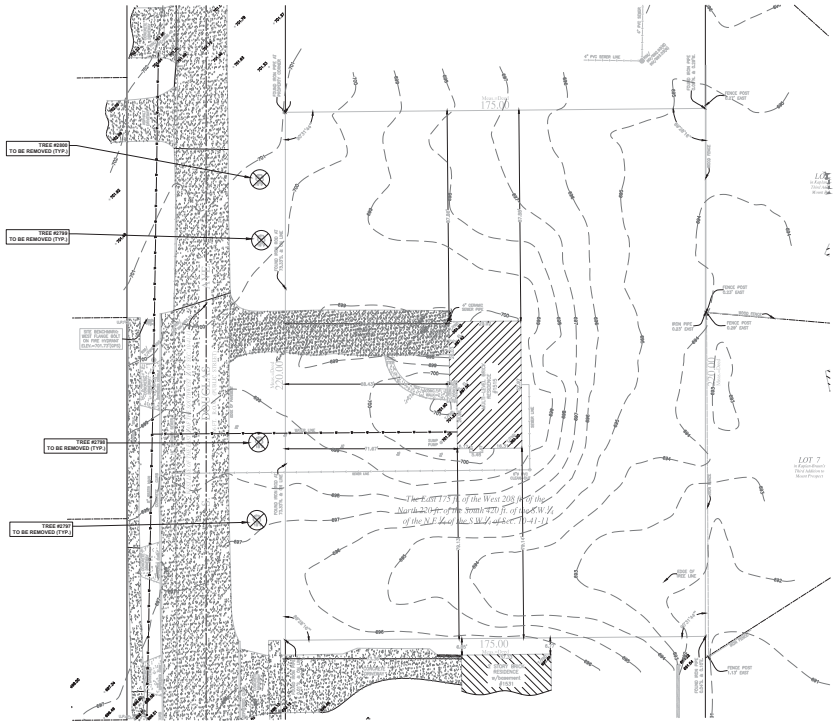
JOB NO:	24-23
DESIGN BY:	KU
DRAWN BY:	KU
SCALE:	1" = 20'

SHEET NO. 6 of 8

TREE PRESERVATION PLAN

TREE PROTECTION NOTES

1. EXISTING VEGETATION WHICH IS TO REMAIN IN PLACE SHALL BE PROTECTED AGAINST UNNECESSARY CUTTING, BREAKING OR SKINNING OF ROOTS, SKINNING AND BRUISING OF BARK, SMOTHERING BY STOCKPILING OF CONSTRUCTION MATERIALS OR EXCAVATED MATERIALS WITHIN THE DRIP LINE, EXCESS FOOT OR VEHICULAR TRAFFIC OR PARKING OF VEHICLES WITHIN THE DRIP LINE.
2. ALL TREES TO REMAIN SHALL BE PROTECTED WITH A FENCE.
3. ALL VEGETATION TO REMAIN ON THE SITE SHALL BE WATERED AS REQUIRED TO MAINTAIN ITS HEALTH DURING THE COURSE OF CONSTRUCTION OPERATIONS.
4. PROTECTION SHALL BE PROVIDED FOR ROOTS OVER 1-1/2" IN DIAMETER WHICH ARE CUT DURING CONSTRUCTION OPERATIONS. WHENEVER SUCH A ROOT IS CUT, THE CUT FACES SHALL BE COATED WITH AN EMULSIFIED ASPHALT OR OTHER ACCEPTABLE COATING SPECIALLY FORMULATED FOR HORTICULTURAL USE ON DAMAGED OR CUT PLANT TISSUES. ALL EXPOSED ROOTS SHALL BE TEMPORARILY COVERED WITH WET BURLAP TO PREVENT THEM FROM DRYING OUT. EXPOSED ROOTS SHALL BE PROVIDED WITH EARTH COVER AS SOON AS POSSIBLE.
5. VEGETATION THAT BECOMES DAMAGED BY CONSTRUCTION OPERATIONS SHALL BE REPAIRED OR REPLACED IN A MANNER ACCEPTABLE TO THE VILLAGE.
6. DAMAGED TREES SHALL BE REPAIRED BY A CERTIFIED ARBORIST. DAMAGED TREES WHICH CANNOT BE REPAIRED AND RESTORED TO FULL GROWTH STATUS, AS DETERMINED BY THE ARBORIST, SHALL BE REPLACED.
7. NO CONSTRUCTION EQUIPMENT SHALL BE OPERATED OR CONSTRUCTION MATERIAL OR EXCAVATED MATERIAL STORED OUTSIDE OF THE PROTECTIVE FENCING OR IN AREAS OF EXISTING TREES.
8. ALL TREE AND BRUSH REMOVAL SHALL BE DONE BY HAND, AND ALL STUMPS ARE TO BE GROUND OUT, NOT BULLDOZED.



TREE INVENTORY
1515 S. Douglas Avenue
Realty Champions, Inc.
Inventory Surbaru's date: 11/12/2025
Completed by: LRP

RATING AND SURVEY CRITERIA

1) Trees measured at 4.5 ft. above the ground - DBH (diameter Breast Height)
2) Trees 6" DBH and above tagged per # 9 Arlington Heights ordinance
3) Dead trees with invasive shrubs also were not tagged
4) Health Rating:

Rating	Description	Criteria
1	Excellent	Less than 10% dead wood, typical growth for species, no observed defects
2	Good	Less than 10% dead wood, minor crown dieback, minor trunk damage, or cavities
3	Fair	Less than 30% dead wood, minor crown dieback, minor trunk damage, or cavities
4	Fair to Poor	Approximately 30-50% dead wood, epicormic, minor disease evidence, trunk damage
5	Poor	Over 50% dead wood, leaning full stature, disease or decay evident, structural damage/cavities
6	Dead	Less than 10% living wood, greater than 80% missing bark, adventitious growth only, decay

TOTAL TREE COUNT: 4

TAG NO.	SCIENTIFIC NAME	COMMON NAME	DBH (inches)	CONDITION	STRUCTURE	HEALTH	PROPOSED ACTION	LOCATION
2095	Tilia cordata	Little Leaf Linden	20	F - Poor	C-Unequal Limb Attachment	Ground rot/Decay/Trunk Damage	Remove	Parkway
2797	Acer saccharinum	Silver Maple	30	F - Poor	C-Unequal Limb/Poor Form	100% dead crown/Dead Limbs/Trunk Damage	Remove	Parkway
2798	Acer saccharinum	Silver Maple	30	F - Poor	C-Unequal Limb/Poor Form	100% dead crown/Dead Limbs/Trunk Damage	Remove	Parkway
2799	Acer saccharinum	Silver Maple	30	F - Poor	C-Unequal Limb/Poor Form/Crown Leav	0% dead crown/Fire die-back	Remove	Parkway

ORIGINAL ISSUE DATE: 10-30-2024		
NO.	DATE	DESCRIPTION
1	11/25/25	REVISION 3
2	8/27/25	REVISION 4
3	10/29/25	REVISION 5
4	12/1/25	REVISION 6
5	2/11/26	REVISION 7
6	2/26/26	REVISION 8

KRUENG
LICENSE NO: 184.009201-C#02

EXPIRES: 11/30/2027

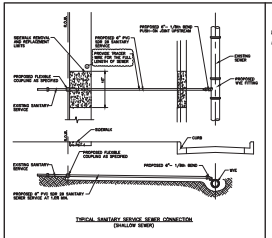
TREE PRESERVATION PLAN
1515 S. DOUGLAS AVE, ARLINGTON HEIGHTS, IL

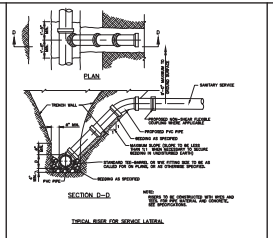
JOB NO:	24-23
DESIGN BY:	KU
DRAWN BY:	KU
SCALE:	1" = 20'

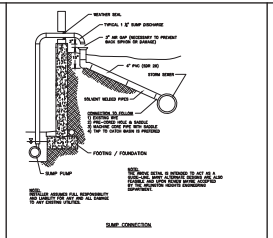
C-7

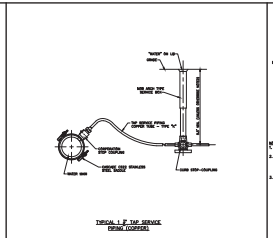
E:\24-23 Arlington Heights (1515 S Douglas Ave)\CAD\Model\C-7 (Tree Preservation Plan).dwg 2/26/2026

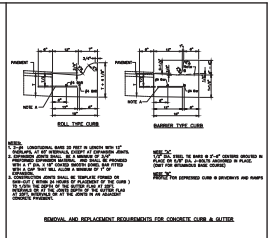
CONSTRUCTION DETAILS

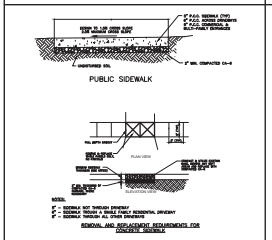


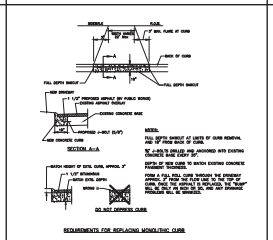


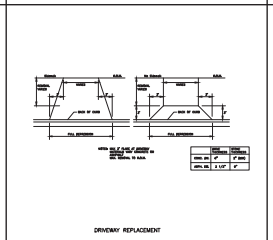


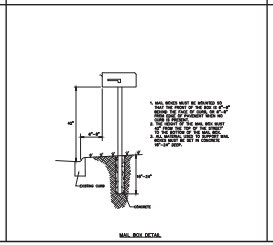


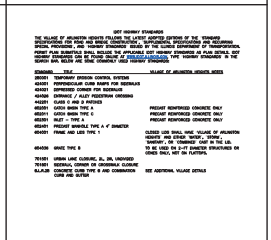


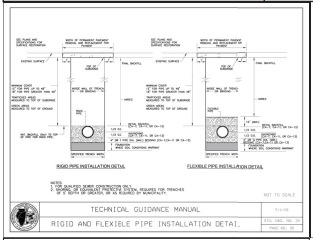


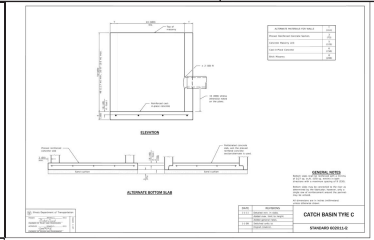


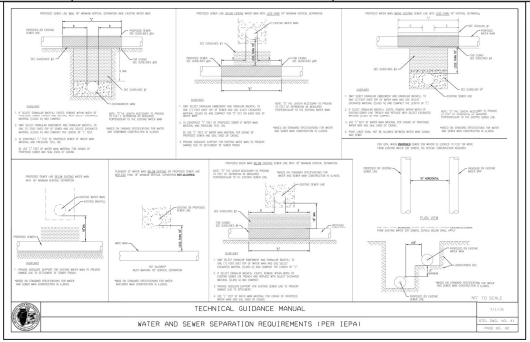


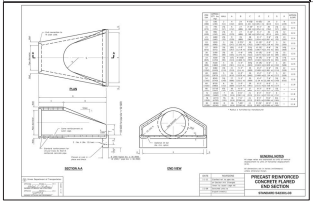












ORIGINAL ISSUE DATE: 10-30-2024		
NO.	DATE	DESCRIPTION
3	6/27/25	REVISION 3
4	8/27/25	REVISION 4
5	10/29/25	REVISION 5
6	11/19/25	REVISION 6
7	2/11/26	REVISION 7
8	2/26/26	REVISION 8

KRUEGER

LICENSED NO: 184.009291-0002

EXPIRES: 11/30/2027

CONSTRUCTION DETAILS

1515 S. DOUGLAS AVE, ARLINGTON HEIGHTS, IL

JOB NO:	24-23
DESIGN BY:	KU
DRAWN BY:	KU
SCALE:	N.T.S.
SHEET NO:	8 OF 8

E:\24-23 Arlington Heights (1515 S Douglas Ave)\CAD\Model\C-8 (Details).dwg 2/26/2026

EXHIBIT D

Unconditional Agreement and Consent

TO: The Village of Arlington Heights, Illinois (*"Village"*):

WHEREAS, Marek Serafin (*"Owner"*) is the record title owner of that certain parcel of real property situated within the Village's R-3 One Family Dwelling District (*"R-3 District*"), located at the address commonly known as 1515 S. Douglas Avenue, Arlington Heights, Illinois (*"Property"*); and

WHEREAS, on _____, 2026, the President and Board of Trustees adopted Ordinance No. _____ (*"Ordinance"*), approving variations for the proposed subdivision of the Property; and

WHEREAS, Section 8 of the Ordinance provides, among other things, that the Ordinance will be of no force or effect unless and until the Owner has filed, within 30 days after the passage of the Ordinance, his unconditional agreement and consent to accept and abide by each and all of the terms, conditions, and limitations set forth in the Ordinance; and

NOW, THEREFORE, the Owner hereby agrees and covenants as follows:

1. The Owner hereby unconditionally agrees to, accepts, consents to, and will abide by, each and all of the terms, conditions, limitations, restrictions, and provisions of the Ordinance.

2. The Owner acknowledges that public notices and hearings have been properly given and held with respect to the adoption of the Ordinance, has considered the possibility of the revocation provided for in the Ordinance, and agrees not to challenge any such revocation on the grounds of any procedural infirmity or a denial of any procedural right.

3. The Owner acknowledges and agrees that the Village is not and will not be, in any way, liable for any damages or injuries that may be sustained as a result of the Village's granting of the variations for the Property or its adoption of the Ordinance, and that the Village's approvals do not, and will not, in any way, be deemed to insure the Owner against damage or injury of any kind and at any time.

4. The Owner hereby agrees to hold harmless and indemnify the Village, the Village's corporate authorities, and all Village elected and appointed officials, officers, employees, agents, representatives, and attorneys, from any and all claims that may, at any time, be asserted against any of such parties in connection with the Village's adoption of the Ordinance granting the variations for the Property.

Dated: _____, 2026

MAREK SERAFIN

_____

VILLAGE OF ARLINGTON HEIGHTS
INC. 1887

Village Board of Trustees
4/20/2026

Item: A Resolution Approving a Preliminary Plat (1515 S. Douglas Avenue)
Department: Planning & Community Development

Item Description:
At the April 6, 2026, Village Board meeting, a request for a Preliminary Plat of Subdivision to create two residential lots and one dedicated onsite stormwater detention lot, was discussed and approved. The Resolution setting forth the provisions and conditions of approval is attached.

Recommendation:
Adoption of a Resolution rezoning the property at 1515 S. Douglas Avenue from the R-1 One Family Dwelling District to the R-3 One Family Dwelling District.

ATTACHMENTS:
1. Resolution Approving Preliminary Plat for 1515 S. Douglas Ave

VILLAGE OF ARLINGTON HEIGHTS

RESOLUTION NO. _____

A RESOLUTION APPROVING A PRELIMINARY PLAT
(1515 S. Douglas Avenue)

WHEREAS, Marek Serafin (*"Owner"*) is the owner of that certain property commonly known as 1515 S. Douglas Avenue, and legally described in Exhibit A attached to and, by this reference, made a part of this Resolution (*"Property"*); and

WHEREAS, the Owner desires to subdivide the Property into two residential lots and one dedicated on-site stormwater detention lot, as depicted on the plat titled "Preliminary Plat M. Serafin's Subdivision," prepared by Professionals Associated - MM Survey Co., consisting of one sheet, with a last revision date of January 12, 2026, a copy of which is attached to and, by this reference, made a part of this Resolution as Exhibit B (*"Preliminary Plat"*); and

WHEREAS, pursuant to Section 29-201 of the "Municipal Code of Arlington Heights, Illinois, 1995," as amended (*"Village Code"*), the Owner has applied for approval of the Preliminary Plat; and

WHEREAS, pursuant to notice duly published in the *Daily Herald* on March 10, 2026, the Plan Commission of the Village of Arlington Heights (*"Plan Commission"*) conducted a public hearing on March 25, 2026, concerning approval of the Preliminary Plat; and

WHEREAS, at the conclusion of the public hearing, the Plan Commission made findings and recommended that the President and Board of Trustees approve the Preliminary Plat; and

WHEREAS, having considered the findings and recommendations of the Plan Commission, the President and Board of Trustees have found and determined that it will serve and be in the best interest of the Village and its residents to approve the Preliminary Plat;

NOW, THEREFORE, BE IT RESOLVED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF ARLINGTON HEIGHTS, COOK COUNTY, ILLINOIS, as follows:

SECTION 1. RECITALS. The facts and statements contained in the preamble to this Resolution are found to be true and correct and are hereby adopted as part of this Resolution.

SECTION 2. APPROVAL OF PRELIMINARY PLAT. The Preliminary Plat for the Property is hereby approved pursuant to Section 29-203 of the Village Code and the home rule powers of the Village.

SECTION 3. SUBMISSION OF FINAL PLAT. Pursuant to and in accordance with Section 29-204 of the Village Code, the adoption of this Resolution authorizes the Owner to submit a final plat of subdivision for the Property ("*Final Plat*") to the Board of Trustees. The Final Plat must comply with the requirements of the Village Code and must be submitted by the Owner for review and approval by the Village no later than 12 months after the effective date of this Resolution, or such extended date as may be approved by the Board of Trustees, in accordance with and pursuant to Section 29-204.c of the Village Code. The Owner must provide a landscape plan with the Final Plat submittal to comply with Section 6.15-3 of "The 2002 Comprehensive Amendment of the Zoning Code of the Village of Arlington Heights," as amended (*"Zoning Code"*) to be reviewed and approved by the Village prior to appearing at a Plan Commission meeting for the Final Plat.

SECTION 4. EFFECT OF APPROVALS. Pursuant to Section 29-204 of the Village Code, the approval of the Preliminary Plat for the Property, as set forth in Section 2 of this Resolution, is not to be deemed or interpreted as authorizing or entitling the Owner to approval of a Final Plat or to any other approval, or to the issuance of any permit, until after all of the standards and procedures for such other approvals or permits have been satisfied. Further, the Board of Trustees will have no obligation to consider or approve a Final Plat unless and until the Owner complies with the applicable procedures for review and approval of a Final Plat for the Property, as set forth in the Village Code.

SECTION 5. EFFECTIVE DATE. This Resolution will be in full force and effect from and after its passage and approval as provided by law.

AYES:

NAYS:

PASSED AND APPROVED THIS ___ day of _____, 2026

_____
Village President

ATTEST:

_____
Village Clerk

EXHIBIT A

LEGAL DESCRIPTION OF THE PROPERTY

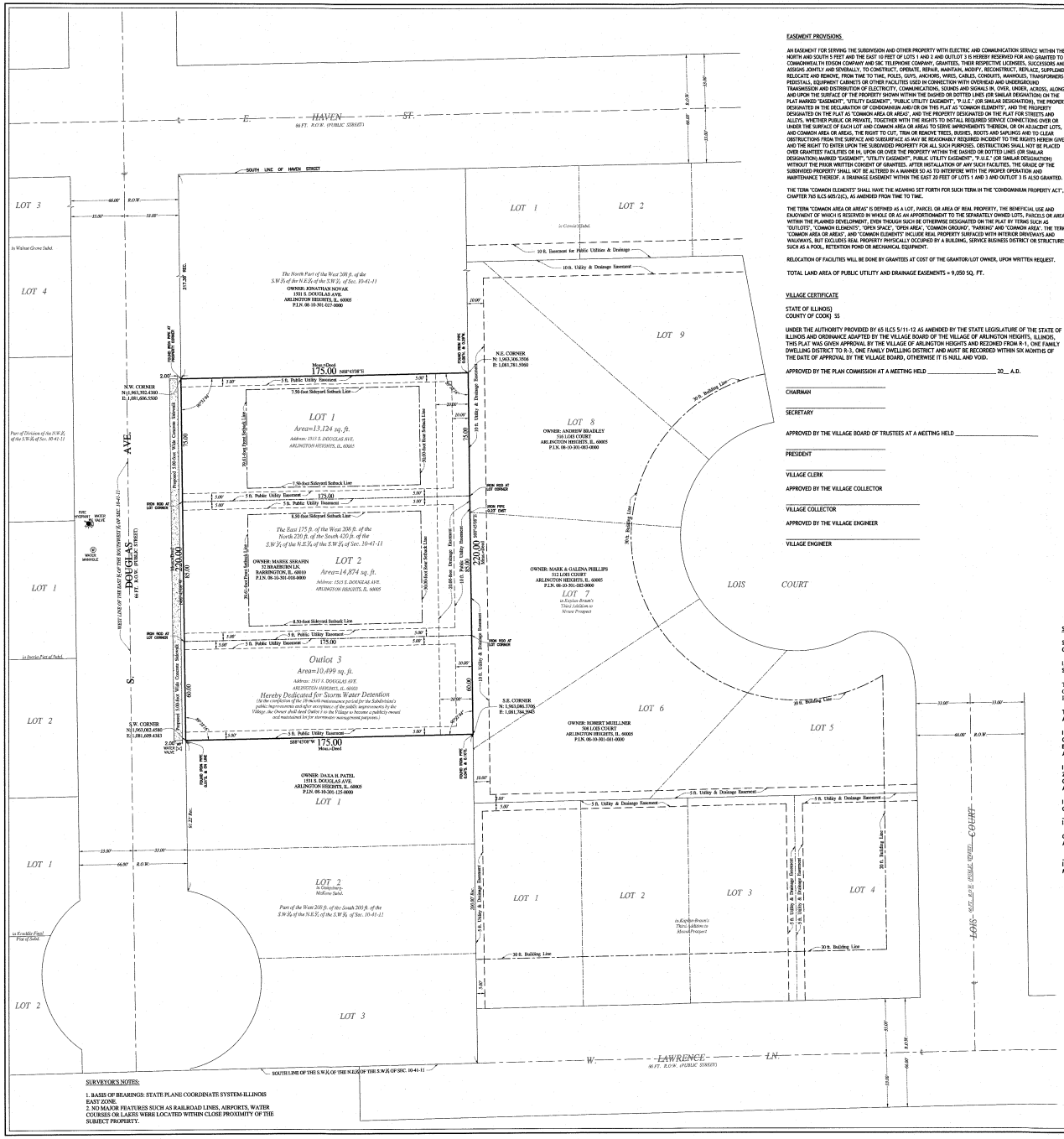
THE EAST 175 FEET OF THE WEST 208 FEET OF THE NORTH 220 FEET OF THE SOUTH 420 FEET OF THE SOUTHWEST ¼ OF THE NORTHEAST ¼ OF THE SOUTHWEST ¼ OF SECTION 10, TOWNSHIP 41 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY ILLINOIS.

Commonly known as: 1515 S. Douglas Avenue, Arlington Heights, Illinois

PINs: 08-10-301-018

EXHIBIT B

PRELIMINARY PLAT



SURVEYOR'S NOTES:

1. BASIS OF BEARINGS: STATE PLANE COORDINATE SYSTEM-ILLINOIS EAST ZONE.
2. NO MAJOR FEATURES SUCH AS RAILROAD LINES, AIRPORTS, WATER COURSES OR LAKES WERE LOCATED WITHIN CLOSE PROXIMITY OF THE SUBJECT PROPERTY.

EASEMENT PROVISIONS

AN EASEMENT FOR SERVING THE SUBDIVISION AND OTHER PROPERTY WITH ELECTRIC AND COMMUNICATION SERVICE WITHIN THE NORTH AND SOUTH 5 FEET AND THE EAST 10 FEET OF LOTS 1 AND 2 AND OUTLOT 3 IS HEREBY RESERVED FOR AND GRANTED TO COMMONWEALTH EDISON COMPANY AND SBC TELEPHONE COMPANY, GRANTEES, THEIR RESPECTIVE LICENSEES, SUCCESSORS AND ASSIGNS, JOINTLY AND SEVERALLY, TO CONSTRUCT, OPERATE, REPAIR, MAINTAIN, MODIFY, RECONSTRUCT, REPLACE, SUPPLEMENT, RELOCATE AND REMOVE, FROM TIME TO TIME, POLES, GUYS, ANCHORS, WIRES, CABLES, CONDUITS, MANHOLES, TRANSFORMERS, PEDESTALS, EQUIPMENT CABINETS OR OTHER FACILITIES USED IN CONNECTION WITH OVERHEAD AND UNDERGROUND TRANSMISSION AND DISTRIBUTION OF ELECTRICITY, COMMUNICATIONS, SOUNDS AND SIGNALS IN, OVER, UNDER, ACROSS, ALONG AND UPON THE SURFACE OF THE PROPERTY SHOWN WITHIN THE DASHED OR DOTTED LINES (OR SIMILAR DESIGNATION) ON THE PLAT MARKED "EASEMENT", "UTILITY EASEMENT", "PUBLIC UTILITY EASEMENT", "P.U.E." (OR SIMILAR DESIGNATION), THE PROPERTY DESIGNATED IN THE DECLARATION OF CONDOMINIUM AND/OR ON THIS PLAT AS "COMMON ELEMENTS", AND THE PROPERTY DESIGNATED ON THE PLAT AS "COMMON AREA OR AREAS", AND THE PROPERTY DESIGNATED ON THE PLAT FOR STREETS AND ALLEYS, WHETHER PUBLIC OR PRIVATE, TOGETHER WITH THE RIGHTS TO INSTALL REQUIRED SERVICE CONNECTIONS OVER OR UNDER THE SURFACE OF EACH LOT AND COMMON AREA OR AREAS TO SERVE IMPROVEMENTS THEREON, OR ON ADJACENT LOTS, AND COMMON AREA OR AREAS, THE RIGHT TO CUT, TRIM OR REMOVE TREES, BUSHES, ROOTS AND SAPLINGS AND TO CLEAR OBSTRUCTIONS FROM THE SURFACE AND SUBSURFACE AS MAY BE REASONABLY REQUIRED INCIDENT TO THE RIGHTS HEREIN GIVEN, AND THE RIGHT TO ENTER UPON THE SUBDIVIDED PROPERTY FOR ALL SUCH PURPOSES. OBSTRUCTIONS SHALL NOT BE PLACED OVER GRANTEES' FACILITIES OR IN, UPON OR OVER THE PROPERTY WITHIN THE DASHED OR DOTTED LINES (OR SIMILAR DESIGNATION) MARKED "EASEMENT", "UTILITY EASEMENT", PUBLIC UTILITY EASEMENT", "P.U.E." (OR SIMILAR DESIGNATION) WITHOUT THE PRIOR WRITTEN CONSENT OF GRANTEES. AFTER INSTALLATION OF ANY SUCH FACILITIES, THE GRADE OF THE SUBDIVIDED PROPERTY SHALL NOT BE ALTERED IN A MANNER SO AS TO INTERFERE WITH THE PROPER OPERATION AND MAINTENANCE THEREOF. A DRAINAGE EASEMENT WITHIN THE EAST 20 FEET OF LOTS 1 AND 3 AND OUTLOT 3 IS ALSO GRANTED.

THE TERM "COMMON ELEMENTS" SHALL HAVE THE MEANING SET FORTH FOR SUCH TERM IN THE "CONDOMINIUM PROPERTY ACT", CHAPTER 765 ILCS 605/2(C), AS AMENDED FROM TIME TO TIME.

THE TERM "COMMON AREA OR AREAS" IS DEFINED AS A LOT, PARCEL OR AREA OF REAL PROPERTY, THE BENEFICIAL USE AND ENJOYMENT OF WHICH IS RESERVED IN WHOLE OR AS AN APPORTIONMENT TO THE SEPARATELY OWNED LOTS, PARCELS OR AREAS WITHIN THE PLANNED DEVELOPMENT, EVEN THOUGH SUCH BE OTHERWISE DESIGNATED ON THE PLAT BY TERMS SUCH AS "OUTLOTS", "COMMON ELEMENTS", "OPEN SPACE", "OPEN AREA", "COMMON GROUND", "PARKING" AND "COMMON AREA". THE TERM "COMMON AREA OR AREAS", AND "COMMON ELEMENTS" INCLUDE REAL PROPERTY SURFACED WITH INTERIOR DRIVEWAYS AND WALKWAYS, BUT EXCLUDES REAL PROPERTY PHYSICALLY OCCUPIED BY A BUILDING, SERVICE BUSINESS DISTRICT OR STRUCTURES SUCH AS A POOL, RETENTION POND OR MECHANICAL EQUIPMENT.

RELOCATION OF FACILITIES WILL BE DONE BY GRANTEES AT COST OF THE GRANTOR/LOT OWNER, UPON WRITTEN REQUEST.

TOTAL LAND AREA OF PUBLIC UTILITY AND DRAINAGE EASEMENTS = 9,050 SQ. FT.

VILLAGE CERTIFICATE

STATE OF ILLINOIS)
COUNTY OF COOK) SS

UNDER THE AUTHORITY PROVIDED BY 65 ILCS 5/11-12 AS AMENDED BY THE STATE LEGISLATURE OF THE STATE OF ILLINOIS AND ORDINANCE ADAPTED BY THE VILLAGE BOARD OF THE VILLAGE OF ARLINGTON HEIGHTS, ILLINOIS, THIS PLAT WAS GIVEN APPROVAL BY THE VILLAGE OF ARLINGTON HEIGHTS AND REZONED FROM R-1, ONE FAMILY DWELLING DISTRICT TO R-3, ONE FAMILY DWELLING DISTRICT AND MUST BE RECORDED WITHIN SIX MONTHS OF THE DATE OF APPROVAL BY THE VILLAGE BOARD, OTHERWISE IT IS NULL AND VOID.

APPROVED BY THE PLAN COMMISSION AT A MEETING HELD _____, 20__ A.D.

_____
CHAIRMAN

_____
SECRETARY

APPROVED BY THE VILLAGE BOARD OF TRUSTEES AT A MEETING HELD _____

_____
PRESIDENT

_____
VILLAGE CLERK

APPROVED BY THE VILLAGE COLLECTOR

_____
VILLAGE COLLECTOR

APPROVED BY THE VILLAGE ENGINEER

_____
VILLAGE ENGINEER

PROFESSIONALS ASSOCIATED
PHONE: (847) 675-3000
FAX: (847) 675-2167
E-MAIL: pa@professionalsassociated.com
www.professionalsassociated.com

NORTH

PROFESSIONALS ASSOCIATED - MM SURVEY CO.

BOUNDARY*ALTA*TOPOGRAPHIC*CONDOMINIUM SURVEYS
7100 NORTH TRIPP AVENUE, LINCOLNWOOD, ILLINOIS
PROFESSIONAL DESIGN FIRM No. 184-005023

MM SURVEY
PHONE: (773) 282-5900
FAX: (773) 282-9424
E-MAIL: info@MMSurveyingChicago.com
www.mmsurveyingchicago.com

GRAPHIC SCALE
0 10 20 40
(IN FEET)
1 inch = 20 feet

PRELIMINARY PLAT OF
M. SERAFIN's SUBDIVISION

OF

THE EAST 175 FEET OF THE WEST 208 FEET OF THE NORTH 220 FEET OF THE SOUTH 420 FEET OF THE SOUTHWEST ¼ OF THE NORTHEAST ¼ OF THE SOUTHWEST ¼ OF SECTION 10, TOWNSHIP 41 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS.

TOTAL LAND AREA = 38,498 sq. ft. = 0.884 acre, more or less
P.I.N. 08-10-301-018-0000
COMMONLY KNOWN AS: 1515 S. DOUGLAS AVE., ARLINGTON HEIGHTS, IL. 60005

UTILITY COMPANIES CERTIFICATE

COMMONWEALTH EDISON COMPANY
EASEMENT APPROVED AND ACCEPTED

BY: _____ DATE: _____, 20__.

TITLE: _____

AT&T
EASEMENT APPROVED AND ACCEPTED

BY: _____ DATE: _____, 20__.

NICOR GAS
EASEMENT APPROVED AND ACCEPTED

BY: _____ DATE: _____, 20__.

TITLE: _____

COMCAST CABLE
EASEMENT APPROVED AND ACCEPTED

BY: _____ DATE: _____, 20__.

TITLE: _____

ASTOUND
EASEMENT APPROVED AND ACCEPTED

BY: _____ DATE: _____, 20__.

TITLE: _____

COUNTY CLERK'S CERTIFICATE

STATE OF ILLINOIS)
COUNTY OF COOK) SS

I, _____ COUNTY CLERK OF COOK COUNTY, ILLINOIS, DO HEREBY CERTIFY THAT THERE ARE NO DELIQUENT GENERAL TAXES, NO UNPAID CURRENT TAXES, NO UNPAID FORFEITED TAXES, AND NO REDEEMABLE TAX SALES AGAINST ANY OF THE LAND INCLUDED IN THE ANNEXED PLAT. I FURTHER CERTIFY THAT I HAVE RECEIVED ALL STATUTORY FEES IN CONNECTION WITH THE ANNEXED PLAT.

GIVEN UNDER MY NAME AND SEAL OF THE COUNTY CLERK AT CHICAGO, ILLINOIS, THIS _____ DAY OF _____, A.D. 20__.

_____
COUNTY CLERK

SURVEYOR'S CERTIFICATE

STATE OF ILLINOIS)
COUNTY OF COOK) SS

I, PAUL JAROS, AN ILLINOIS REGISTERED LAND SURVEYOR DO HEREBY CERTIFY THAT I HAVE SUPERVISED THE SURVEY AND SUBDIVISION OF THE FOLLOWING DESCRIBED PROPERTY:

THE EAST 175 FEET OF THE WEST 208 FEET OF THE NORTH 220 FEET OF THE SOUTH 420 FEET OF THE SOUTHWEST ¼ OF THE NORTHEAST ¼ OF THE SOUTHWEST ¼ OF SECTION 10, TOWNSHIP 41 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS.

TOTAL AREA : 38,498 SQ. FT. (0.884 acre, more or less).
ALL DISTANCES ARE SHOWN IN FEET AND DECIMAL PARTS THEREOF.

I ALSO CERTIFY THAT THE LAND IS WITHIN THE VILLAGE OF ARLINGTON HEIGHTS OR WITHIN ONE AND A HALF MILES OF THE CORPORATE LIMITS OF THE VILLAGE OF ARLINGTON HEIGHTS WHICH HAS ADOPTED A COMPREHENSIVE PLAN AND MAP AND IS EXERCISING THE SPECIAL POWERS AUTHORIZED BY DIVISION 12 OF ARTICLE 11 OF THE ILLINOIS MUNICIPAL CODE AS AMENDED.

I FURTHER CERTIFY UPON INSPECTION OF FLOOD INSURANCE RATE MAP NO. 17031C0211J, EFFECTIVE DATE AUGUST 19, 2008, IT APPEARS THAT ALL OF THE SUBJECT PROPERTY SHOWN HEREON LIES WITHIN ZONE "X" (AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD).

I FURTHER CERTIFY THAT I AM AN ILLINOIS PROFESSIONAL LAND SURVEYOR IN COMPLIANCE WITH THE LAWS OF THE STATE OF ILLINOIS, AND THAT THIS PLAT CORRECTLY REPRESENTS A SURVEY COMPLETED BY ME ON _____; THAT ALL MONUMENTS AND MARKERS SHOWN THEREON ACTUALLY EXISTS, AND THAT I HAVE ACCURATELY SHOWN THE MATERIALS THAT THEY ARE MADE OF.

GIVEN UNDER MY HAND AND SEAL AT LINCOLNWOOD, ILLINOIS THIS _____ DAY OF _____ A.D. 2026.

ILLINOIS REGISTERED PROFESSIONAL LAND SURVEYOR NO. 035-003937
MY LICENSE EXPIRES NOVEMBER 30, 2026

LAND SURVEYORS AUTHORIZATION

I, PAUL JAROS, AN ILLINOIS PROFESSIONAL LAND SURVEYOR OF THE STATE OF ILLINOIS, LICENSE NUMBER 035-003937, DO HEREBY AUTHORIZE THE CLERK OF THE VILLAGE OF ARLINGTON HEIGHTS, ITS STAFF OR AUTHORIZED AGENT TO PLACE THIS DOCUMENT OF RECORD IN THE COUNTY RECORDER'S OFFICE IN MY NAME AND IN COMPLIANCE WITH ILLINOIS STATUTES CHAPTER 109 PARAGRAPH 2, AS AMENDED.

GIVEN UNDER MY HAND AND SEAL THIS _____ DAY OF _____ A.D. 2026.

_____
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003937
EXPIRES: NOVEMBER 30, 2026

SCHOOL DISTRICT CERTIFICATE

STATE OF ILLINOIS)
COUNTY OF COOK) SS

PURSUANT TO SECTION 1.005 OF THE PLAT ACT, 765 ILCS 205, THIS DOCUMENT SHALL SERVE AS THE SCHOOL DISTRICT STATEMENT TO THE BEST OF THE OWNER'S KNOWLEDGE. THE TRACT OF LAND DESCRIBED IN THE ATTACHED PLAT LIES IN THE FOLLOWING SCHOOL DISTRICT(S):

ARLINGTON HEIGHTS SCHOOL DISTRICT #59
TOWNSHIP HIGH SCHOOL DISTRICT #214
HARPER COLLEGE COMMUNITY DISTRICT #512.

DATED THIS _____ DAY OF _____, A.D. 20__

_____
MAREK SERAFIN, OWNER

NOTARY CERTIFICATE

STATE OF ILLINOIS)
COUNTY OF COOK) SS

BEFORE ME THE UNDERSIGNED NOTARY PUBLIC, IN AND FOR THE COUNTY AND STATE AFORESAID, PERSONALLY APPEARED _____ AND EACH SEPARATELY AND SEVERALLY ACKNOWLEDGED THE EXECUTION OF THE FOREGOING INSTRUMENT AS HIS OR HER VOLUNTARY ACT AND DEED, FOR THE PURPOSES THEREIN EXPRESSED.

WITNESS MY HAND AND NOTARIAL SEAL THIS_____DAY OF_____, A.D. 2026

_____
NOTARY PUBLIC

_____
COMMISSION EXPIRES

OWNERS CERTIFICATE

STATE OF ILLINOIS)
COUNTY OF COOK) SS

WE, THE UNDERSIGNED, _____, OWNERS OF THE REAL ESTATE SHOWN AND DESCRIBED HEREIN, DO HEREBY LAY OFF, PLAT AND SUBDIVIDE SAID REAL ESTATE IN ACCORDANCE WITH THE WITHIN PLAT. THIS SUBDIVISION SHALL BE KNOWN AND DESIGNATED AS M. SERAFIN'S SUBDIVISION, AN ADDITION TO THE VILLAGE OF ARLINGTON HEIGHTS, COOK COUNTY. ALL STREETS AND ALLEYS AND PUBLIC OPEN SPACES SHOWN AND NOT HERETOFORE DEDICATED ARE HEREBY DEDICATED TO THE PUBLIC. FRONT AND SIDE YARD BUILDING SETBACK LINES ARE ESTABLISHED AS SHOWN ON THIS PLAT, BETWEEN WHICH LINES AND THE PROPERTY LINES OF THE STREETS, THERE SHALL BE ERECTED OR MAINTAINED NO BUILDING OR STRUCTURE. THERE ARE STRIPS OF GROUND, _____ FEET IN WIDTH AS SHOWN ON THIS PLAT AND MARKED "EASEMENT" RESERVED FOR THE USE OF PUBLIC UTILITIES FOR THE INSTALLATION OF WATER AND SEWER MAINS, POLES, DUCTS, LINES AND WIRES, SUBJECT AT ALL TIMES TO THE PROPER AUTHORITIES AND TO THE EASEMENT HEREIN RESERVED. NO PERMANENT OR OTHER STRUCTURES ARE TO BE ERECTED OR MAINTAINED UPON THESE STRIPS OF LAND, BUT OWNERS OF LOTS IN THIS SUBDIVISION SHALL TAKE THEIR TITLES SUBJECT TO THE RIGHTS OF THE PUBLIC UTILITIES, AND TO THE RIGHTS OF THE OWNERS OF OTHER LOTS IN THIS SUBDIVISION.

THE FOREGOING COVENANTS (OR RESTRICTIONS), ARE TO RUN WITH THE LAND AND SHALL BE BINDING ON ALL PARTIES AND ALL PERSONS CLAIMING UNDER THEM UNTIL JANUARY 01, 20__, AT WHICH TIME SAID COVENANTS (OR RESTRICTIONS) SHALL BE AUTOMATICALLY EXTENDED FOR SUCCESSIVE PERIODS OF TEN YEARS UNLESS INDICATED OTHERWISE BY NEGATIVE VOTE OF A MAJORITY OF THE THEN OWNERS OF THE BUILDING SITES COVERED BY THESE COVENANTS (OR RESTRICTIONS), IN WHOLE OR IN PART, WHICH SAID VOTE WILL BE EVIDENCED BY A PETITION IN WRITING SIGNED BY THE OWNERS AND DULY RECORDED. INVALIDATION OF ANY ONE OF THE FOREGOING COVENANTS (OR RESTRICTIONS) BY JUDGEMENT OR COURT ORDER SHALL IN NO WAY AFFECT ANY OF THE VARIOUS COVENANTS (OR RESTRICTIONS), WHICH SHALL REMAIN IN FULL FORCE AND EFFECT.

THE RIGHTS TO ENFORCE THESE PROVISIONS BY INJUNCTION, TOGETHER WITH THE RIGHT TO CAUSE THE REMOVAL, BY DUE PROCESS OF LAW, OF ANY STRUCTURE OR PART THEREOF ERECTED OR MAINTAINED IN VIOLATION, IS HEREBY DEDICATED TO THE PUBLIC, AND RESERVED TO THE SEVERAL OWNERS OF THE SEVERAL LOTS IN THIS SUBDIVISION AND TO THEIR HEIRS AND ASSIGNS.

WITNESS OUR HANDS AND SEALS THIS _____ DAY OF _____, A.D. 20__.

BY: _____ TITLE: _____

ATTEST: _____ TITLE: _____

NOTARY CERTIFICATE

STATE OF ILLINOIS)
COUNTY OF COOK) SS

BEFORE ME THE UNDERSIGNED NOTARY PUBLIC, IN AND FOR THE COUNTY AND STATE AFORESAID, PERSONALLY APPEARED _____ AND EACH SEPARATELY AND SEVERALLY ACKNOWLEDGED THE EXECUTION OF THE FOREGOING INSTRUMENT AS HIS OR HER VOLUNTARY ACT AND DEED, FOR THE PURPOSES THEREIN EXPRESSED.

WITNESS MY HAND AND NOTARIAL SEAL THIS_____DAY OF_____, A.D. 2026

_____
NOTARY PUBLIC

_____
COMMISSION EXPIRES

LEGEND:

R.O.W. RIGHT OF WAY
SOLID LINE (PROPERTY LINE, RIGHT OF WAY LINE)
LONG DASH SHORT (STREET CENTER LINE)
SHORT DASH SHORT (ORIGINAL LOT LINES)
DASHED (IX) (EASEMENT LINE)
DOTS (LEAD ARROWS)
HATCH (AREA TO BE SUBDIVIDED)

SUBMITTED BY/ RETURN TO:

VILLAGE OF ARLINGTON HEIGHTS
33 S. ARLINGTON HEIGHTS RD.
ARLINGTON HEIGHTS, ILLINOIS 60005

SEND TAX BILL TO:

MAREK SERAFIN
675 W. GILBERT RD.
PALATINE, IL. 60067

PROFESSIONALS ASSOCIATED - MM SURVEY CO.

ORDER NO: 109428

DATE:	REVISIONS
24 September 2024	PRELIMINARY PLAT
21 March 2025	New Signature Blocks, Easements on adjoining properties
23 October 2025	Re-configuration of Lots, Addition of Storm Water Detention Lot and Drainage Easement
06 January 2026	Edited Building Lines, Changed line weight of Lot lines, identified basis of bearings
12 January 2026	Added Line Bearings and Corner Coordinates
16 February 2026	Added Utility Easements/Revised Signature Blocks
03 March 2026	Added Utility Easements in Outlot 3, Land Area of Easements/Removed Hatch/Edited Line Weights

VILLAGE OF ARLINGTON HEIGHTS
INC. 1887

Village Board of Trustees
4/20/2026

Item: An Ordinance Granting Sign Variations (7 W. Dundee Road)
Department: Planning & Community Development

Item Description:
At the February 17, 2026, Village Board meeting, a request for Sign Variations for the subject property was discussed and approved. The Ordinance setting forth the provisions and conditions of approval is attached.

Recommendation:
Adoption of an Ordinance granting Sign Variations for Popeye's located at 7 W. Dundee Road.

ATTACHMENTS:
1. Popeyes Sign Variation Ordinance

Prepared by and return to:
Village of Arlington Heights
33 S. Arlington Heights Road
Arlington Heights, Illinois 60005
Attention: Village Clerk

THIS SPACE FOR COUNTY CLERK'S USE ONLY

VILLAGE OF ARLINGTON HEIGHTS

ORDINANCE NO. 2026-_____

AN ORDINANCE GRANTING SIGN VARIATIONS
(7 W. Dundee Road)

ADOPTED BY THE
PRESIDENT AND BOARD OF TRUSTEES
OF THE VILLAGE OF ARLINGTON HEIGHTS
THIS _____ DAY OF _____, 2026.

Published in pamphlet form
by the authority of the
President and Board of Trustees
of the Village of Arlington Heights,
Cook County, Illinois this
_____ day of _____, 2026

_____
Village Clerk

AN ORDINANCE GRANTING SIGN VARIATIONS
(7 W. Dundee Road)

WHEREAS, HZ PROPS RE, LTD (*"Owner"*) is the record title owner of that certain property located in the B-2 General Business Zoning District (*"B-2 District"*), commonly known as 7 W. Dundee Road, Arlington Heights, Illinois, and legally described in Exhibit A attached to and, by this reference, made a part of this Ordinance (*"Property"*); and

WHEREAS, the Property is adjacent to the Dundee Road right-of-way, and is improved with a standalone commercial building (*"Building"*) and two 52.66-square-foot conventional printed drive-through menu boards (*"Existing Sign"*); and

WHEREAS, the Building is currently occupied by HZ Ops Holdings, inc./dba Popeye's (*"Tenant"*); and

WHEREAS, Chapter 30 of the "Municipal Code of Arlington Heights, Illinois, 1995," as amended (*"Sign Code"*), sets forth regulations for the installation and maintenance of signs in the Village; and

WHEREAS, pursuant to Section 30-208.b of the Sign Code, fully electronic menu boards are prohibited in the Village; and

WHEREAS, pursuant to Section 30-208.c of the Sign Code, fully electronic pre-sell menu boards are prohibited; and

WHEREAS, the Tenant desires to: (i) remove the Existing Signs from the Property; (ii) install a new fully electronic 22.61-square-foot menu board display along the existing drive-through lane on the Property (*"Menu Board"*), in violation of Section 30-208.b of the Sign Code; and (iii) install a new fully electronic 7.64-square-foot pre-sell menu board (*"Pre-Sell Board"*), in violation of Section 30-208.c of the Sign Code; and

WHEREAS, in order to permit the installation of the Menu Board and Pre-Sell Board (collectively, the *"Proposed Signs"*), Site Enhancement Services (*"Applicant"*), on behalf of the Tenant and with the consent of the Owner, submitted an application for: (i) a variation from Section 30-208.b of the Sign Code to allow a fully electronic drive through menu board on the Property; and (ii) a variation from Section 30-208.c of the Sign Code to allow a fully electronic pre-sell menu board on the Property (collectively, the *"Requested Relief*"); and

WHEREAS, pursuant to Section 30-904 of the Sign Code, the Applicant provided notification of a public meeting of the Design Commission of the Village to consider approval of the Requested Relief by posting signage at the Property and serving written notice on neighboring property owners; and

WHEREAS, on January 27, 2026, the Design Commission conducted a public meeting to consider the Requested Relief, and made findings and recommended that the Village Board approve the Requested Relief, subject to specified conditions; and

WHEREAS, the Village President and Board of Trustees have considered the Proposed Signs and the recommendations of the Design Commission, and have determined that the Proposed Signs meet the required standards for sign variations in Section 30-902 of the Sign Code; and

WHEREAS, the President and Board of Trustees have determined that it will serve and be in the best interest of the Village to grant the Requested Relief, subject to the conditions, restrictions, and provisions of this Ordinance;

NOW, THEREFORE, BE IT ORDAINED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF ARLINGTON HEIGHTS:

SECTION 1. RECITALS. The facts and statements contained in the preamble to this Ordinance are found to be true and correct and are hereby adopted as part of this Ordinance.

SECTION 2. GRANT OF VARIATIONS. Subject to, and contingent upon, the conditions, restrictions, and provisions set forth in Section 3 of this Ordinance, and in accordance with, and pursuant to, Section 30-901 of the Sign Code and the home rule powers of the Village, the Village hereby grants the following variations to the Tenant for the Proposed Signs on the Property:

A. A variation from Section 30-208.b of the Sign Code to allow a fully electronic drive through menu board on the Property.

B. A variation from Section 30-208.c of the Sign Code to allow a fully electronic pre-sell menu board on the Property.

SECTION 3. CONDITIONS. Notwithstanding any use or development right that may be applicable or available pursuant to the provisions of the Sign Code, or any other provisions of the "Municipal Code of Arlington Heights, Illinois, 1995," as amended (*"Village Code"*), the approvals granted pursuant to Section 2 of this Ordinance are hereby expressly subject to, and contingent upon, the development, use, and maintenance of the Property in compliance with each and all of the following conditions:

A. Compliance with Regulations. Except to the extent specifically provided otherwise in this Ordinance, the development, use, operation, and maintenance of the Proposed Signs and the Property must comply at all times with all applicable federal, State, and Village statutes, codes, ordinances, and regulations, as the same have been or may be amended from time to time, including, without limitation, the Village Code, the Sign Code, and "The 2002 Comprehensive Amendment of the Zoning Ordinance of the Village of Arlington Heights," as amended, except as varied in this Ordinance.

B. Compliance with Plans. Except for minor changes approved by the Village Director of Building & Life Safety (for matters within their permitting authority) in accordance with all applicable Village standards, the installation, use, operation, and maintenance of the Proposed Signs must be substantially compliant with the Site Plans prepared by Donna A. Elliott Architect, with a last revision date of January 21, 2026, attached to and, by this reference, made a part of this Ordinance as Exhibit B (*"Plans"*).

C. Sign Regulations. The Proposed Signs must comply with all operational standards for electronic signs set forth in Section 30-705.h of the Sign Code, which includes static displays only (no scrolling, fading, flashing, animation, video, or sound), auto-dimming photocell technology to control brightness to a maximum of 0.3 footcandles above ambient lighting conditions, no off-premises advertising, and illumination only during the hours that the Tenant's business on the Property is open.

D. Limitation of Approvals. The approvals granted in this Ordinance apply and are limited only to the Proposed Signs depicted and described in the Plans. No future alterations or modifications may be made to the Proposed Signs, causing it to be in further nonconformity with the requirements of the Sign Code, without first obtaining Village approval in accordance with the applicable provisions of the Sign Code. All other signs, and portions of signs, on the Property must comply with the Sign Code, and all other applicable provisions of the Village's codes and ordinances.

SECTION 4. RECORDATION; BINDING EFFECT. A copy of this Ordinance will be recorded with the Cook County Clerk's Recording Division. This Ordinance and the privileges, obligations, and provisions contained herein inure solely to the benefit of, and are binding upon the Applicant, the Tenant, the Owner, and each of their heirs, representatives, successors, and assigns.

SECTION 5. FAILURE TO COMPLY WITH CONDITIONS. Upon the failure or refusal of the Applicant, the Tenant, or the Owner to comply with any or all of the conditions, restrictions, or provisions of this Ordinance, as applicable, the approvals granted in Section 2 of this Ordinance may, at the sole discretion of the Village President and Board of Trustees, by ordinance duly adopted, be revoked and become null and void; provided, however, that the Village President and Board of Trustees may not so revoke the approvals granted in Section 2 of this Ordinance unless they first provide the Applicant, the Tenant, and the Owner with two months advance written notice of the reasons for revocation and an opportunity to be heard at a regular meeting of the Village President and Board of Trustees. In the event of revocation, the development and use of the Property will be governed solely by the regulations of the B-2 District and the applicable provisions of the Village Code, as the same may, from time to time, be amended. Further, in the event of such revocation, the Village Manager and Village Attorney are hereby authorized and directed to bring such enforcement action as may be appropriate under the circumstances.

SECTION 6. AMENDMENTS. Any amendments to the approvals granted in Section 2 of this Ordinance that may be requested by the Applicant, the Tenant, or the Owner after the effective date of this Ordinance may be granted only pursuant to the procedures, and subject to the standards and limitations, provided in the Sign Code and the Village Code.

SECTION 7. SEVERABILITY. If any provision of this Ordinance or part thereof is held invalid by a court of competent jurisdiction, the remaining provisions of this Ordinance are to remain in full force and effect, and will be interpreted, applied, and enforced so as to achieve, as near as may be, the purpose and intent of this Ordinance to the greatest extent permitted by applicable law.

SECTION 8. EFFECTIVE DATE.

A. This Ordinance will be effective only upon the occurrence of all of the following events:

1. Passage by the Village President and Board of Trustees in the manner required by law; and

2. The filing by the Applicant, the Tenant, and the Owner with the Village Clerk of an Unconditional Agreement and Consent, in the form of Exhibit C attached to and, by this reference, made a part of this Ordinance, to accept and abide by each and all of the terms, conditions, and limitations set forth in this Ordinance and to indemnify the Village for any claims that may arise in connection with the approval of this Ordinance.

B. In the event the Applicant, the Tenant, and the Owner do not file fully executed copies of the Unconditional Agreement and Consent, as required by Section 8.A.2 of this Ordinance, within 30 days after the date of final passage of this Ordinance, the Village President and Board of Trustees will have the right, in their sole discretion, to declare this Ordinance null and void and of no force or effect.

AYES:

NAYS:

PASSED AND APPROVED THIS _____ day of _____, 2026

_____
Village President

ATTEST:

_____
Village Clerk

EXHIBIT A

LEGAL DESCRIPTION OF THE PROPERTY

LOT 1 IN HARDEE'S DUNDEE ROAD RESUBDIVISION OF LOT 5 (EXCEPT THE SOUTH 33.00 FEET) AND ALL OF LOT 6 IN FREEDOM SMALL FARMS, BEING A SUBDIVISION OF PARTS OF THE NORTHWEST 1/4 AND THE NORTH 1/2 OF THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 8, TOWNSHIP 42 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS.

Commonly known as: 7 W. Dundee Road, Arlington Heights, Illinois

PIN: 03-08-100-052

EXHIBIT B

PLANS

(attached)

GENERAL NOTES

1. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND NATIONAL CODES AND REGULATIONS.
2. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO BID TO DETERMINE THE EXTENT OF WORK. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO BIDDING.
3. ALL EXISTING MATERIALS TO REMAIN WHICH ARE DAMAGED OR OTHERWISE DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE PATCHED OR REPAIRED TO MATCH THE EXISTING ADJACENT MATERIALS, SO THAT THE REPAIR IS IMPERCEPTIBLE.
4. DURING THE COURSE OF CONSTRUCTION, IF THE CONTRACTOR UNCOVERS ANY CODE VIOLATION KNOWN TO HIM OR ANY DISCREPANCY WITH THE DESIGN, CONTRACTOR SHALL NOTIFY THE ARCHITECT OF SUCH IMMEDIATELY.
5. CONTRACTOR SHALL ASSEMBLE AND INSTALL MATERIALS/ PRODUCTS IN STRICT ACCORDANCE WITH THE MANUF'S RECOMMENDATIONS AND INDUSTRIAL/ASSOCIATION STANDARDS.
6. CONTACT ARCHITECT AND COORDINATE WITH TENANT ANY ADDITIONAL SPECIFICATIONS NOT SPECIFIED HEREIN AND/OR CLARIFICATIONS REGARDING THE CONTRACT DOCUMENTS.
7. NO CURRENT SURVEY WAS PERFORMED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY, IN WRITING, OF ANY DISCREPANCIES OR OMISSIONS TO THE TOPOGRAPHIC INFORMATION. THE CONTRACTOR(S) SHALL BE RESPONSIBLE FOR CONFIRMING THE LOCATION (HORIZONTAL/VERTICAL) OF ANY BURIED CABLES, CONDUITS, PIPES, AND STRUCTURES (STORM SEWER, SANITARY SEWER, WATER, GAS, TELEVISION, TELEPHONE, ETC.) WHICH IMPACT THE CONSTRUCTION SITE. THE CONTRACTOR(S) SHALL NOTIFY THE OWNER AND ENGINEER IN WRITING IF ANY DISCREPANCIES ARE FOUND BETWEEN THE ACTUAL CONDITIONS VERSUS THE DATA CONTAINED IN THE CONSTRUCTION PLANS. ANY COSTS INCURRED AS THE RESULT OF NOT CONFIRMING THE ACTUAL LOCATION (HORIZONTAL/VERTICAL) OF SAID CABLES, CONDUITS, PIPES, AND STRUCTURES SHALL BE BORNE BY THE CONTRACTOR. ADDITIONALLY, THE CONTRACTOR(S) SHALL NOTIFY THE OWNER AND ENGINEER IN WRITING IF ANY ERRORS OR DISCREPANCIES ARE FOUND ON THE CONSTRUCTION DOCUMENTS (PS&E), WHICH NEGATIVELY IMPACT THE PROJECT. THE ENGINEER AND OWNER SHALL BE INDEMNIFIED OF PROBLEMS AND/OR COST WHICH MAY RESULT FROM THE CONTRACTOR'S FAILURE TO NOTIFY THE ENGINEER AND OWNER.
8. IT IS STRONGLY RECOMMENDED THAT NO CONTRACTUAL AGREEMENT OF ANY KIND BE SIGNED PRIOR TO RECEIVING AND THOROUGHLY REVIEWING ALL APPROVALS FROM ALL OF THE REGULATORY AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT.

SITE NOTES

1. ALL DIMENSIONS SHOWN ARE TO FACE OF CURB UNLESS NOTED OTHERWISE.
2. BASES, ANCHOR BOLTS, CONDUIT, AND WIRING FOR ALL SIGNS ARE BY THE GENERAL CONTRACTOR.
3. EXISTING MENU BOARDS AND PRE- SALE BOARDS TO BE REMOVED FROM BASES, REMOVED FROM SITE, AND DISPOSED UNLESS DIRECTED BY BAILIWICK. CONDUITS TO BE CAPPED TO PREVENT MOISTURE ENTRANCE.

UTILITY NOTES

1. ALL ELECTRICAL/CONDUIT RUNS ARE SCHEMATIC ONLY. CONDUIT SIZES AND ROUTING PROVIDED BY BAILIWICK.
2. IT SHALL BE THE SIGN INSTALLER'S RESPONSIBILITY TO ENSURE THE PROPOSED SIGN LOCATION DOES NOT INTERFERE WITH ANY UTILITIES AND COMPLIES WITH ALL APPLICABLE CITY CODES. SIGN INSTALLER SHALL ALSO OBTAIN APPROVAL FROM THE APPROPRIATE ENTITIES PRIOR TO INSTALLING THE SIGN OVER ANY EXISTING EASEMENTS.
3. REFER TO THE BUILDING ELECTRICAL DRAWINGS FOR UTILITY SERVICE ENTRANCE LOCATIONS, SIZES, AND CIRCUITING.

DEMOLITION NOTES

1. CONTRACTOR IS RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE TO EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO: DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB, ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
2. ALL WORK ON THIS PLAN SHALL BE DONE IN STRICT ACCORDANCE WITH SITE WORK SPECIFICATIONS.
3. CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST STANDARDS OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURE. CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING, OR OTHER MEANS OF PROTECTION, INCLUDING BUT IS NOT LIMITED TO, ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE TO COMPLY WITH PERFORMANCE CRITERIA FOR OSHA.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THE PUBLIC DURING CONSTRUCTION, INCLUDING BUT NOT LIMITED TO: CONSTRUCTION FENCING, BARRICADES, SIGNAGE, ETC.
5. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITIES AND NOTIFYING THE APPROPRIATE UTILITY COMPANY PRIOR TO BEGINNING CONSTRUCTION.
6. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.

SCOPE OF WORK

REMOVE EXISTING MENU BOARDS AND CAP CONDUIT PER SITE NOTES. INSTALL NEW MENU BOARDS AND ALL REQUIRED CONDUIT AND WIRING. REFER TO MANUFACTURERS BOARD PUBLISHED INSTALLATION INSTRUCTIONS.

BUILDING CODE SUMMARY

APPLICABLE BUILDING CODE:	2018 INTERNATIONAL BUILDING CODE
APPLICABLE ELECTRICAL CODE:	2017 NATIONAL ELECTRICAL CODE
USE GROUP:	A2 - ASSEMBLY
BUILDING DEPARTMENT PHONE NO:	847-368-5560
EXISTING SIGNAGE AREA TO BE REMOVED:	52.66 SQ FT
NEW SIGNAGE AREA TO BE ADDED:	30.25 SQ FT
PROJECT ADDRESS:	7 W DUNDEE RD ARLINGTON HEIGHTS, IL 60004

VICINITY MAP (NTS)

PRE-BROWSE
7.64 SQ FT

THREE PANEL MENU BOARD
22.61 SQ FT

SIDE VIEW

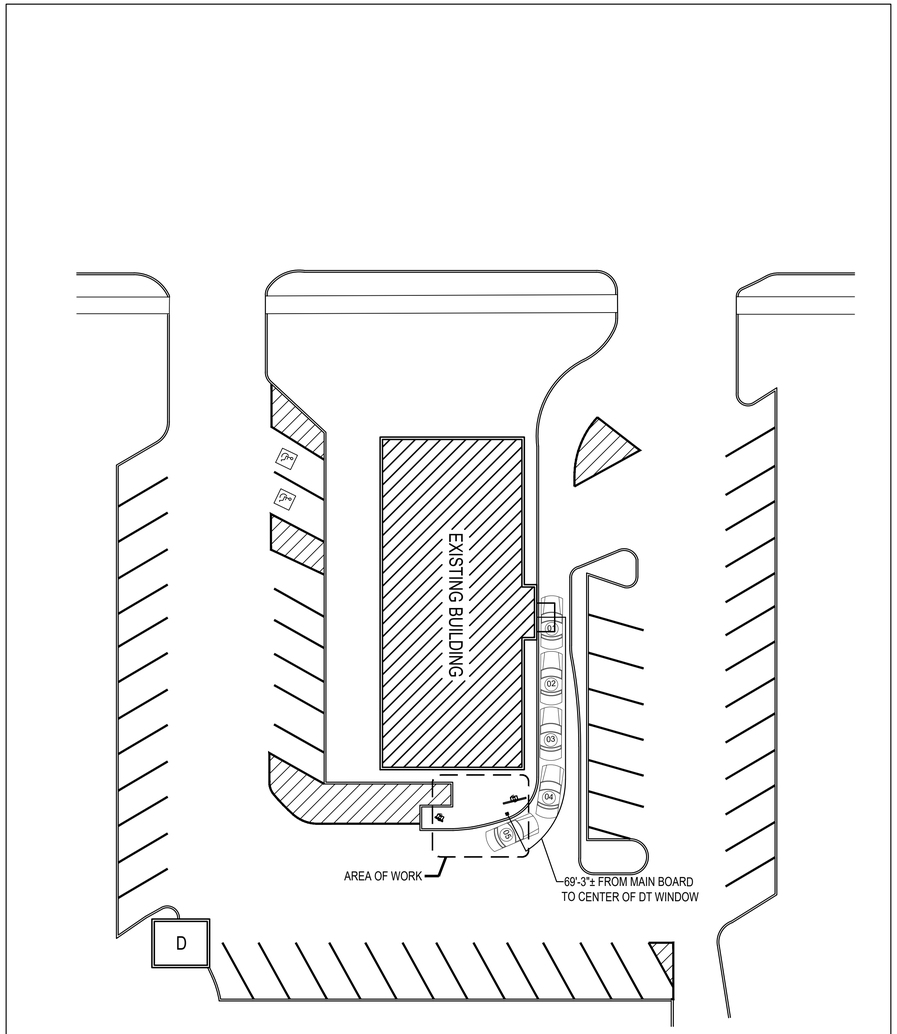
NEW MENU BOARDS AND PRE-BROWSE BOARDS

NOT TO SCALE

THREE PANEL MENU BOARD
W/ TOPPER
52.66 SQ FT

EXISTING SIGNAGE BOARDS TO BE REMOVED

NOT TO SCALE



EXISTING OVERALL SITE PLAN

SCALE: 1" = 20'-0"

1"=20'-0" 0 20' 30'

1"=10'-0" 0 10' 15'

REV	DATE	BY	DESCRIPTION
1	10/21/2025	SFE	UPDATED DIMENSIONS ON "EXISTING SIGNAGE BOARD", C1.0

Donna A Elliott Architect
1317 Executive Blvd, Suite 200
Chesapeake, VA 23320
PH (757) 622-2828
FAX (757) 622-6883

LICENSED ARCHITECT
DONNA A. ELLIOTT
001-026437
STATE OF ILLINOIS
10/22/2025 EXP: 11/30/24

POPEYES LOUISIANA KITCHEN
PLK 2119
SITE ADDRESS: 7 W DUNDEE RD
ARLINGTON HEIGHTS, IL 60004

DATE	7/16/2021
PROJECT	21450-84
DESIGNED	BNS
DRAWN	BNS
CHECKED	DFM

SITE PLAN AND NOTES

C1.0

FILE NAME: C:\Users\steven\appdata\local\temp\AcPublish_20984\45084A_C1_0.dwg LAYOUT NAME: Work PLOTTED: Wednesday, October 22, 2025 - 8:20am

SITE PLAN KEY NOTES

1	EXISTING SIGNAGE TO BE REMOVED. SEE SITE NOTE #3.
2	EXISTING SPEAKER TO REMAIN
3	TRIPLE PANEL MENU BOARD. REFER TO STRUCTURAL SHEET FOR FOOTING INFORMATION.
4	SINGLE PANEL MENU BOARD. REFER TO STRUCTURAL SHEET FOR FOOTING INFORMATION.

SITE PLAN LEGEND

EXISTING ORDER POINT/SPEAKER POST TO REMAIN

NEW TRIPLE PANEL OUTDOOR DIGITAL MENU BOARD

NEW SINGLE PANEL OUTDOOR DIGITAL PRE-SALE BOARD

EXISTING MENU BOARDS TO BE REMOVED

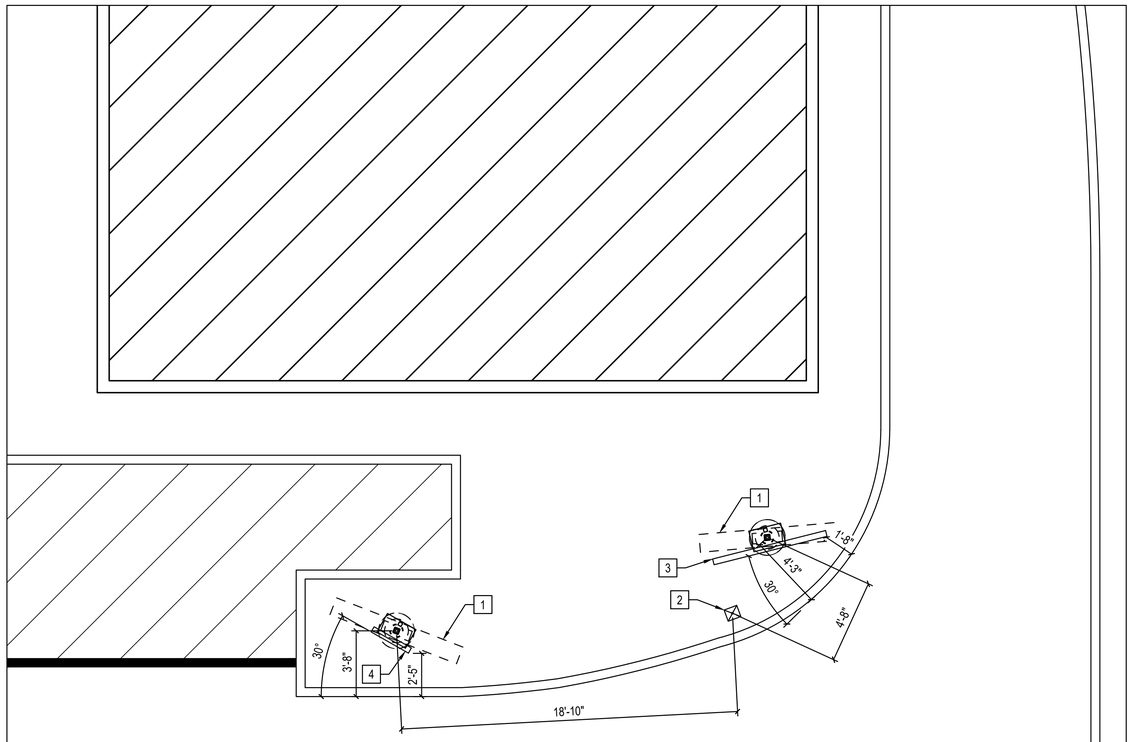
MAIN BOARD PB BOARD

ELECTRICAL PLAN NOTES

1. INTENT OF DESIGN: DISCONNECT POWER AND DATA FEEDS FROM EXISTING MENU BARDS AND PRE-SALE BOARDS, REMOVE AND DISPOSE.
2. CONTRACTORS ARE TO INSTALL NEW CONDUIT , ELECTRICAL WIRE AND DATA CABLE.
3. NOTED CIRCUIT NUMBERS DERIVED FROM EXISTING PANEL DIRECTORY INSERTS, CONTRACTOR TO FIELD VERIFY AND UTILIZE EXISTING BRANCH CIRCUITS FEEDING THE PRIMARY (BRANCH CIRCUIT 1) AND SECONDARY (BRANCH CIRCUIT 2) MENU BOARDS AND PRE-BROWSE BOARDS.
4. COORDINATE ALL CONDUIT AND CIRCUITING SIZE REQUIREMENTS WITH MANUFACTURERS INSTALL REQUIREMENTS
5. ALL NEW PULLBOXES / HANDHOLDS SHALL BE A MINIMUM OF TIER 8 QUAZITES BOX OR APPROVED EQUAL.
6. PROVIDE DEDICATED NEUTRAL FOR ALL CIRCUITS, NO SHARED NEUTRALS ALLOWED.

CONDUIT PLAN KEY NOTES

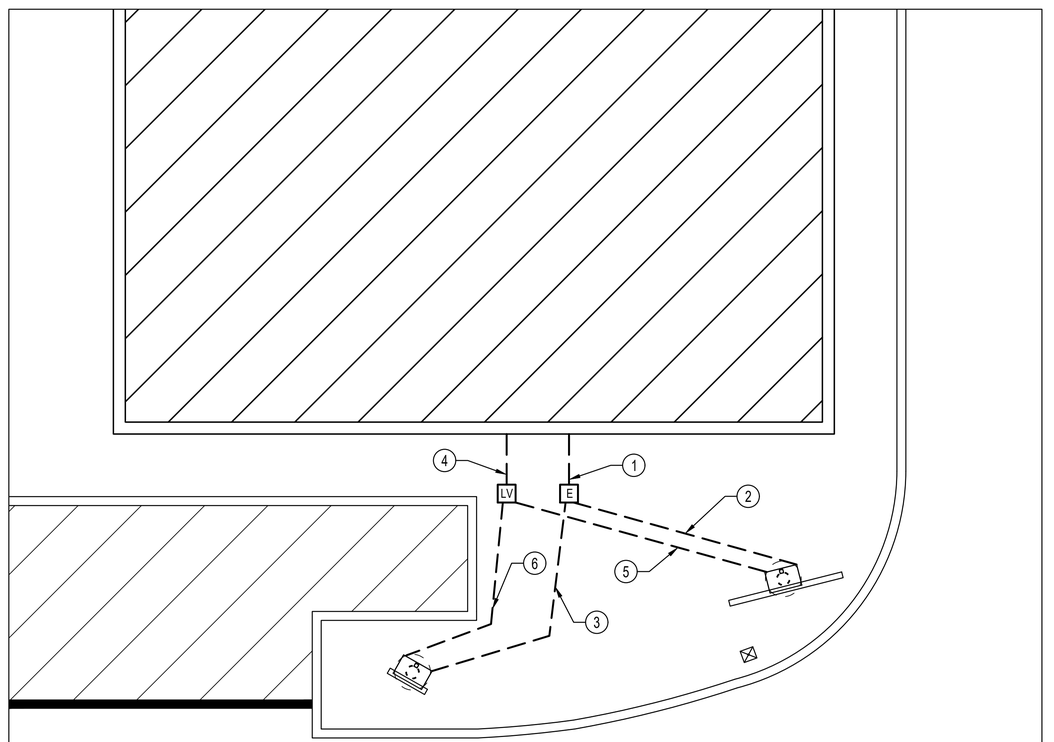
1	ONE 3/4" PVC CONDUIT (4-#12, 1-#12 GRD, 1-#12 IG) FROM PANEL CP TO J-BOX
2	ONE 3/4" PVC CONDUIT (2-#12, 1-#12 GRD, 1-#12 IG) FROM J-BOX TO NEW MAIN MENU BOARD
3	ONE 3/4" PVC CONDUIT (2-#12, 1-#12 GRD, 1-#12 IG) FROM J-BOX TO NEW PRE-SALE BOARD
4	ONE 2" PVC CONDUIT (CAT6 DATA CABLES) FROM BUILDING TO J-BOX
5	ONE 2" PVC CONDUIT (CAT6 DATA CABLES) FROM J-BOX TO MENU BOARD
6	ONE 2" PVC CONDUIT (CAT6 DATA CABLES) FROM J-BOX TO PRE-SALE BOARD



ENLARGED SITE PLAN

SCALE: 1/4" = 1'-0"

NORTH



ENLARGED CONDUIT PLAN

SCALE: 1/4" = 1'-0"

NORTH

1"=20'-0" 0 20' 30'

1"=10'-0" 0 10' 15'

REV	DATE	BY	DESCRIPTION
1	10/21/2025	SFE	UPDATED DIMENSIONS ON "EXISTING SIGNAGE BOARD", C1.0

Donna A Elliott Architect
1317 Executive Blvd, Suite 200
Chesapeake, VA 23320
PH (757) 622-2828
FAX (757) 622-6883

LICENSED ARCHITECT
DONNA A. ELLIOTT
001-024497
STATE OF ILLINOIS
10/22/2025 EXP: 11/30/24

PLK 2119

POPEYES LOUISIANA KITCHEN

SITE ADDRESS: 7 W DUNDEE RD
ARLINGTON HEIGHTS, IL 60004

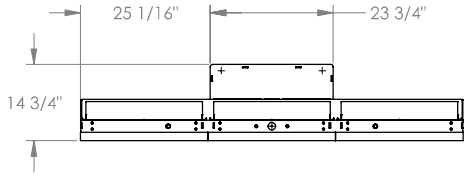
DATE	7/16/2021
PROJECT	21450-84
DESIGNED	BNS
DRAWN	BNS
CHECKED	DFM

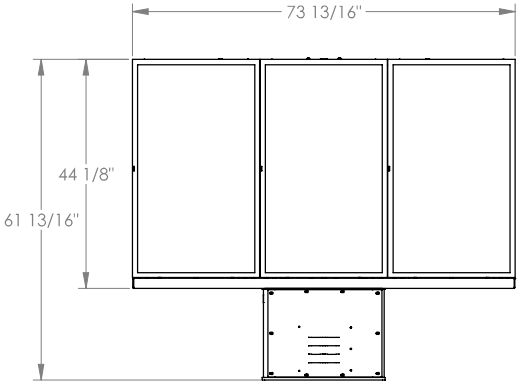
ENLARGED UTILITY PLANS

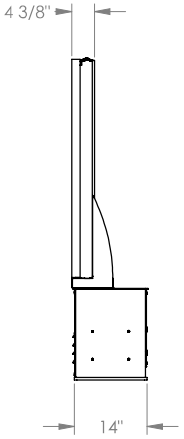
C1.1

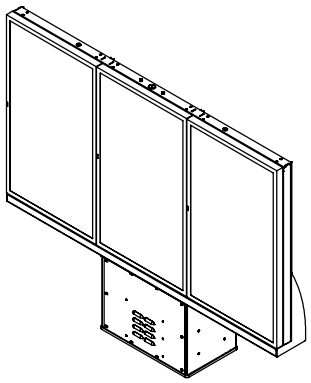
FILE NAME: C:\Users\svervais\appdata\local\temp\AcPublish_20984\40984A_C1_1.dwg LAYOUT NAME: Work PLOTTED: Wednesday, October 22, 2025 - 8:20am

REVISIONS					
REV	ZONE	DESCRIPTION	DATE	CHGD	CHKD

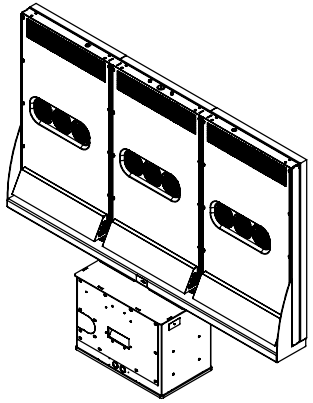








FRONT SIDE



REAR SIDE

MATERIALS OF CONSTRUCTION:

- PEDESTAL: 1/2" HRPO PLATE, .179" HRPO PLATE, .105" CRS PLATE
- CABINET FRAME: 2" X 8" .188 WALL A 513 TUBE, .250" HRPO PLATE, .179" HRPO PLATE, .064" GALVANNEALED STEEL
- BACK COVERS: .050" ALUMINUM

- **SYSTEM WEIGHTS:**
- WITH DISPLAYS: 615 LBS
- WITHOUT DISPLAYS: 330 LBS

SYSTEM CERTIFICATIONS:

- UL LISTING# E495423
- CONFORMS TO UL 60950-1 and CAN/CSA C22.2 No. 60950-1-07

NU WAY INDUSTRIES INC.

NU-WAY

UNLESS OTHERWISE SPECIFIED TOLERANCE ON FRACTIONS ARE ± 1/32, TWO PLACE DECIMALS ARE ± .020, THREE PLACE DECIMALS ARE ± .010, ANGLES ARE ± 1/2°	MATERIAL	APPROVALS	DATE	DESCRIPTION: TRIPLE 46" SAMSUNG SLIM OMB
		DRAWN: JAS	4/29/20	
		CHECKED:		
		APPROVED:		
THIRD ANGLE PROJECTION	FINISH	SIZE B	DWG NO. NW463500	PART NO. NW463500 / REV 0
		DO NOT SCALE DRAWING	SCALE = 1:24	SHEET 1 OF 7

EXHIBIT C

UNCONDITIONAL AGREEMENT AND CONSENT

TO: The Village of Arlington Heights, Illinois (*"Village"*):

WHEREAS, HZ PROPS RE, LTD (*"Owner"*) is the record title owner of that certain property located in the B-2 General Business Zoning District (*"B-2 District"*), commonly known as 7 W. Dundee Road, Arlington Heights, Illinois, and legally described in Exhibit A attached to and, by this reference, made a part of this Ordinance (*"Property"*); and

WHEREAS, the Property is improved with a standalone commercial building (*"Building"*) and a 52.66 square-foot conventional printed drive-through menu board (*"Existing Sign"*); and

WHEREAS, the Building is currently occupied by Popeye's (*"Tenant"*); and

WHEREAS, the Tenant desires to remove the Existing Sign from the Property and install a new fully electronic menu board and fully electronic pre-sell menu board on the Property (*"Proposed Signs"*); and

WHEREAS, in order to permit the installation of the Proposed Signs, Site Enhancement Services (*"Applicant"*), on behalf of the Tenant and with the consent of the Owner, submitted an application for variations from the Sign Code; and

WHEREAS, Ordinance No. 2026-_____, adopted by the Village President and Board of Trustees on _____, 2026 (*"Ordinance"*), grants variations from the Village's sign regulations for the Property; and

WHEREAS, Section 8 of the Ordinance provides, among other things, that the Ordinance will be of no force or effect unless and until the Tenant, the Applicant, and the Owner file, within 30 days following the passage of the Ordinance, their unconditional agreement and consent to accept and abide by each and all of the terms, conditions, and limitations set forth in the Ordinance;

NOW, THEREFORE, the Tenant, the Applicant, and the Owner hereby agree and covenant as follows:

1. The Tenant, the Applicant, and the Owner hereby unconditionally agree to, accept, consent to, and will abide by, each and all of the terms, conditions, limitations, restrictions, and provisions of the Ordinance.

2. The Tenant, the Applicant, and the Owner acknowledge that public notices and hearings have been properly given and held with respect to the adoption of the Ordinance, have considered the possibility of the revocation provided for in the Ordinance, and agree not to challenge any such revocation on the grounds of any procedural infirmity or a denial of any procedural right.

3. The Tenant, the Applicant, and the Owner acknowledge and agree that the Village is not and will not be, in any way, liable for any damages or injuries that may be sustained as a result of the Village's granting of the variations for the Property or its adoption of the Ordinance, and that the Village's approval does not, and will not, in any way, be deemed to insure the Tenant, the Applicant, and the Owner against damage or injury of any kind and at any time.

4. The Tenant, the Applicant, and the Owner hereby agree to hold harmless and indemnify the Village, the Village's corporate authorities, and all Village elected and appointed officials, officers, employees, agents, representatives, and attorneys, from any and all claims that may, at any time, be asserted against any of such parties in connection with the Village's adoption of the Ordinance granting the variations for the Property.

Dated: _____, 2026

ATTEST:

By: _____

Its: _____

HZ PROPS RE, LTD a Texas limited partnership

By: **HZ PROPS GP, INC** it's managing partner

By: _____

Its: _____

ATTEST:

By: _____

Its: _____

SITE ENHANCEMENT SERVICES

By: _____

Its: _____

ATTEST:

By: _____

Its: _____

HZ OPS HOLDING, INC. dba Popeyes

By: _____

Its: _____

VILLAGE OF ARLINGTON HEIGHTS
INC. 1887

Village Board of Trustees
4/20/2026

Item: An Ordinance Amending the Annual Budget of the Village of Arlington Heights, County of Cook, State of Illinois, for the Fiscal Year Beginning January 1, 2025, and Ending December 31, 2025 - General Fund Surplus

Department: Finance

Item Description:

Background

Over the last few years, the Village has started to see a more normal financial pattern develop, where our revenue streams and expenditures are now increasing at more moderate levels. This follows the prior post-pandemic period that featured pent-up demand for goods and services. The Village remains financially healthy, with strong reserves, and a solid Aa1 bond rating from Moody's. The Village continually monitors the impact on the Village and its financial outlook.

For 2025, estimated actual, General Fund revenues received performed better than expected. Based on preliminary financial results, the Village experienced a $4.7 million surplus in 2025, exceeding the budgeted amount by $4.7 million. As we have proposed in previous years, fund balance levels exceeding the 40% reserve level may be strategically re-allocated with approval by the Village Board. For 2025, total General Fund revenues were approximately 2.1% over budget. The 2025 financial results indicate that economically sensitive revenues performed above expectations in 2025, particularly for Sales, Home Rule sales, and Income Taxes. Total estimated expenditures are approximately 3.0% below budget, consistent with prior years' performance.

It is proposed that the Village consider making the following 2025 transfer totaling $4.6 million from the General Fund:

1. **$45,000 General Fund Transfer to the Arts & Entertainment Fund for the United States' 250th birthday celebration event for a dynamic, synchronized drone light show.**

As part of honoring the United States' 250th Birthday, a transfer is presented

to fund a dynamic, synchronized drone light show featuring animated sky displays during a July evening of Frontier Days.

2. **$500,000 General Fund Transfer to the Municipal Parking Fund**

Similar to last year's surplus transfer, this transfer will help maintain the Parking Fund's financial position by strengthening reserves for future maintenance and capital investments. This is particularly important given inflationary pressures that continue to increase the cost of materials and labor, requiring proactive financial planning. The fund's primary revenue source remains parking fees, interest earnings, and surplus transfers from the General Fund. This fund would continue to operate at a deficit, if not for interfund transfers.

3. **$500,000 General Fund Transfer to the Fleet Fund**

Maintaining the Village's fleet is essential to ensuring reliable service delivery across all departments, including public safety and public works operations. As vehicle and equipment costs continue to rise due to inflationary pressures, a transfer into the Fleet Fund will help preserve the Village's ability to replace and maintain assets on a timely basis, avoid service disruptions, and support a sustainable, long-term replacement program.

4. **$3,555,000 General Fund Transfer to the Capital Projects Fund**

This year is our five-year Capital Improvement Plan update. It is important to proactively account for ongoing inflationary pressures that continue to increase the cost of materials, labor, and project delivery. The Capital Projects Fund accounts for a variety of capital improvements including street resurfacing/rehabilitation, sidewalk repair/replacement, operational equipment replacement, traffic signal improvements and other projects.

Compounding these challenges, inflation over the past several years has continued to erode the purchasing power of the Village's road program, resulting in higher construction and material costs. As a result, maintaining the same level of investment now requires greater financial commitment than in prior years because we have less purchasing power.

This transfer to the Capital Projects Fund supports the planning of the next

Capital Improvement Program (CIP) by providing flexibility in project prioritization, with a particular focus on advancing roadway improvements.

Recommendation

It is recommended that the Village Board approve the attached Ordinance amending the 2025 Budget to transfer a total of $4,600,000 from the General Fund surplus as follows: $45,000 to the Arts & Entertainment Fund, $500,000 to the Municipal Parking Fund, $500,000 to the Fleet Fund, and $3,555,000 to the Capital Projects Fund.

ATTACHMENTS:

1. Budget Amendment Ordinance - 2025 Surplus

AN ORDINANCE AMENDING THE ANNUAL BUDGET OF THE VILLAGE OF ARLINGTON HEIGHTS, COUNTY OF COOK, STATE OF ILLINOIS, FOR THE FISCAL YEAR BEGINNING JANUARY 1, 2025 AND ENDING DECEMBER 31, 2025

WHEREAS, by Ordinance 2024-67, the President and Board of Trustees of the Village of Arlington Heights, Illinois adopted the Annual Budget of the Village of Arlington Heights for the fiscal year beginning January 1, 2025, and ending December 31, 2025; and

WHEREAS, the President and Board of Trustees has determined that it will serve and be in the best interest of the Village to adopt an Ordinance amending the Annual Budget;

NOW, THEREFORE, BE IT ORDAINED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF ARLINGTON HEIGHTS:

SECTION ONE: RECITALS. The foregoing recitals are incorporated into, and made a part of, this Ordinance as the findings of the President and Board of Trustees.

SECTION TWO: ADOPTION OF AMENDMENTS. The Annual Budget shall be, and it is hereby, amended as follows:

Account Being Amended		Original Budget	Amendment Incr. / (Decr.)	Revised Budget
101-9901-590050-	Operating Transfer Out	$0	$4,600,000	$4,600,000
235-0000-491050-	Operating Transfer In	$0	$500,000	$500,000
401-0000-491050-	Operating Transfer In	$300,000	$3,555,000	$3,855,000
515-0000-491050-	Operating Transfer In	$0	$45,000	$45,000
621-0000-491050-	Operating Transfer In	$448,000	$500,000	$948,000

SECTION THREE: PUBLICATION. The Village Clerk is hereby directed to publish this Ordinance in pamphlet form pursuant to the Statutes of the State of Illinois.

SECTION FOUR: EFFECTIVE DATE. This Ordinance will be in full force and effect from and after its passage, approval, and publication in the manner as provided by law.

AYES:

NAYS:

PASSED AND APPROVED THIS 20th of April 2026.

_____
Village President

ATTEST:

_____
Village Clerk

VILLAGE OF ARLINGTON HEIGHTS
INC. 1887

Village Board of Trustees
4/20/2026

Item: An Ordinance Amending the Annual Budget of the Village of Arlington Heights, County of Cook, State of Illinois, for the Fiscal Year Beginning January 1, 2026 and Ending December 31, 2026 - United States' 250th Birthday Celebration Drone Light Show

Department: Finance

Item Description:

Background

As part of honoring the United States' 250th Birthday, a budget amendment is presented to fund a dynamic, synchronized drone light show featuring animated sky displays during a July evening of Frontier Days. The estimated cost is $45,000, and a budget amendment is presented to the 2026 expense line 515-0201-540550.

Recommendation

It is recommended that the Village Board approve the attached Ordinance amending the 2026 Budget to increase expenditures by $45,000 to the Arts, Entertainment & Events Fund for the purpose of a dynamic, synchronized drone light show featuring animated sky displays during a July evening of Frontier Days.

ATTACHMENTS:

1. Budget Amendment Ordinance - US 250th Birthday Drone Light Show

AN ORDINANCE AMENDING THE ANNUAL BUDGET OF THE VILLAGE OF ARLINGTON HEIGHTS, COUNTY OF COOK, STATE OF ILLINOIS, FOR THE FISCAL YEAR BEGINNING JANUARY 1, 2026 AND ENDING DECEMBER 31, 2026

WHEREAS, by Ordinance 2025-60, the President and Board of Trustees of the Village of Arlington Heights, Illinois adopted the Annual Budget of the Village of Arlington Heights for the fiscal year beginning January 1, 2026, and ending December 31, 2026; and

WHEREAS, the President and Board of Trustees has determined that it will serve and be in the best interest of the Village to adopt an Ordinance amending the Annual Budget;

NOW, THEREFORE, BE IT ORDAINED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF ARLINGTON HEIGHTS:

SECTION ONE: RECITALS. The foregoing recitals are incorporated into, and made a part of, this Ordinance as the findings of the President and Board of Trustees.

SECTION TWO: ADOPTION OF AMENDMENTS. The Annual Budget shall be, and it is hereby, amended as follows:

Account Being Amended		Original Budget	Amendment Incr. / (Decr.)	Revised Budget
515-0201-540550-	AE0626-EVENTS-VMO July 4th Events – Drone Show	$0	$45,000	$45,000

SECTION THREE: PUBLICATION. The Village Clerk is hereby directed to publish this Ordinance in pamphlet form pursuant to the Statutes of the State of Illinois.

SECTION FOUR: EFFECTIVE DATE. This Ordinance will be in full force and effect from and after its passage, approval, and publication in the manner as provided by law.

AYES:

NAYS:

PASSED AND APPROVED THIS 20th of April 2026.

_____
Village President

ATTEST:

_____
Village Clerk

VILLAGE OF ARLINGTON HEIGHTS
INC. 1887

Village Board of Trustees
4/20/2026

Item: Appointment of Robert Brodecki to the Housing Commission effective May 1, 2026, term ending April 30, 2029

Department: Integrated Services

Item Description:
Appointment of Robert Brodecki to the Housing Commission, term ending April 30, 2029

ATTACHMENTS:
None

VILLAGE OF ARLINGTON HEIGHTS
INC. 1887

Village Board of Trustees
4/20/2026

Item: Appointment of Richard Bondarowicz to the Design Commission effective May 1, 2026, term ending April 30, 2029

Department: Integrated Services

Item Description:
Appointment of Richard Bondarowicz to the Design Commission effective May 1, 2026, term ending April 30, 2029

ATTACHMENTS:
None

VILLAGE OF ARLINGTON HEIGHTS
INC. 1887

Village Board of Trustees
4/20/2026

Item: Appointment of Joe Footlik to the Zoning Board of Appeals effective May 1, 2026, term ending April 30, 2031

Department: Integrated Services

Item Description:
Appointment of Joe Footlik to the Zoning Board of Appeals effective May 1, 2026, term ending April 30, 2031

ATTACHMENTS:
None

VILLAGE OF ARLINGTON HEIGHTS
INC. 1887

Village Board of Trustees
4/20/2026

Item: Appointment of David Hogaboom to the Zoning Board of Appeals effective May 1, 2026, term ending April 30, 2031

Department: Integrated Services

Item Description:
Appointment of David Hogaboom to the Zoning Board of Appeals effective May 1, 2026, term ending April 30, 2031

ATTACHMENTS:
None

VILLAGE OF ARLINGTON HEIGHTS
INC. 1887

Village Board of Trustees
4/20/2026

Item: Presentation of the Village of Arlington Heights Sustainability Plan

Department: Planning & Community Development

Item Description:
The 2024-2025 Strategic Priorities included as priority number three, "Pursue environmentally sustainable programs and business practices within the Village." The associated Business Plan proposed conducting an audit of sustainability efforts and updating the Energy Efficiency Conservation Strategy (EECS), originally completed in 2009. The draft Sustainability Plan meets the goal of the strategic priority and serves as a new approach to sustainability planning for the Village of Arlington Heights. The Plan highlights accomplishments and charts a path for short and long-term sustainability goals and strategies. The focus of the Plan is on municipal activities and facilities that will have the most significant impact on the quality of life of local residents while aligning with State and regional priorities and funding opportunities. The plan also draws from the National Community Survey, administered by the Village, Greenest Regional Compact, developed by the Metropolitan Mayors Caucus, and the 2024 Priority Climate Action Plan, developed through the Chicago Metropolitan Agency for Planning, to draw from local and regional priorities and perspectives. Village staff invited public comment from March 1st through the 31st before finalizing the latest draft for consideration by the Village Board.

Staff Recommendation: Motion to approve the Arlington Heights Sustainability Plan

ATTACHMENTS:
1. Village of Arlington Heights Sustainability Plan

ACKNOWLEDGEMENTS

This project was a shared effort with support from Village officials, Village staff, and members of the community. We thank all who contributed.

Arlington Heights Village Board

Mayor Jim Tinaglia
Trustee James J. Bertucci
Trustee Wendy Dunnington
Trustee Colin Gilbert
Trustee Robin LaBedz
Trustee Bill Manganaro
Trustee Carina Santa Maria
Trustee Thomas F. Schwingbeck Jr.
Trustee Greg Zyck

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INTRODUCTION

The Village of Arlington Heights is excited to present the first Sustainability Plan to be completed in its history. The plan highlights accomplishments and charts a path for short and long-term sustainability goals and strategies. The focus of the plan is on municipal activities and facilities that will have the most significant impact on the quality of life of local residents while aligning with state and regional priorities and funding opportunities.

The Energy Efficiency Conservation Strategy (EECS), which was completed in 2009, set out to encourage residents, businesses, non-profits, and other units of government to collaborate on preserving natural resources, and advancing green initiatives that would protect the environment from impacts of climate change. Since that time, the Village of Arlington Heights has advanced many of the EECS goals and potential projects while the scope of conservationism has expanded into virtually every aspect of local government. The Vision Statement from the EECS still holds relevance in stating:

> *"Arlington Heights is a community that embraces and promotes energy efficiency and conservation measures thereby reducing its carbon footprint and resulting in healthier improved lifestyles."*

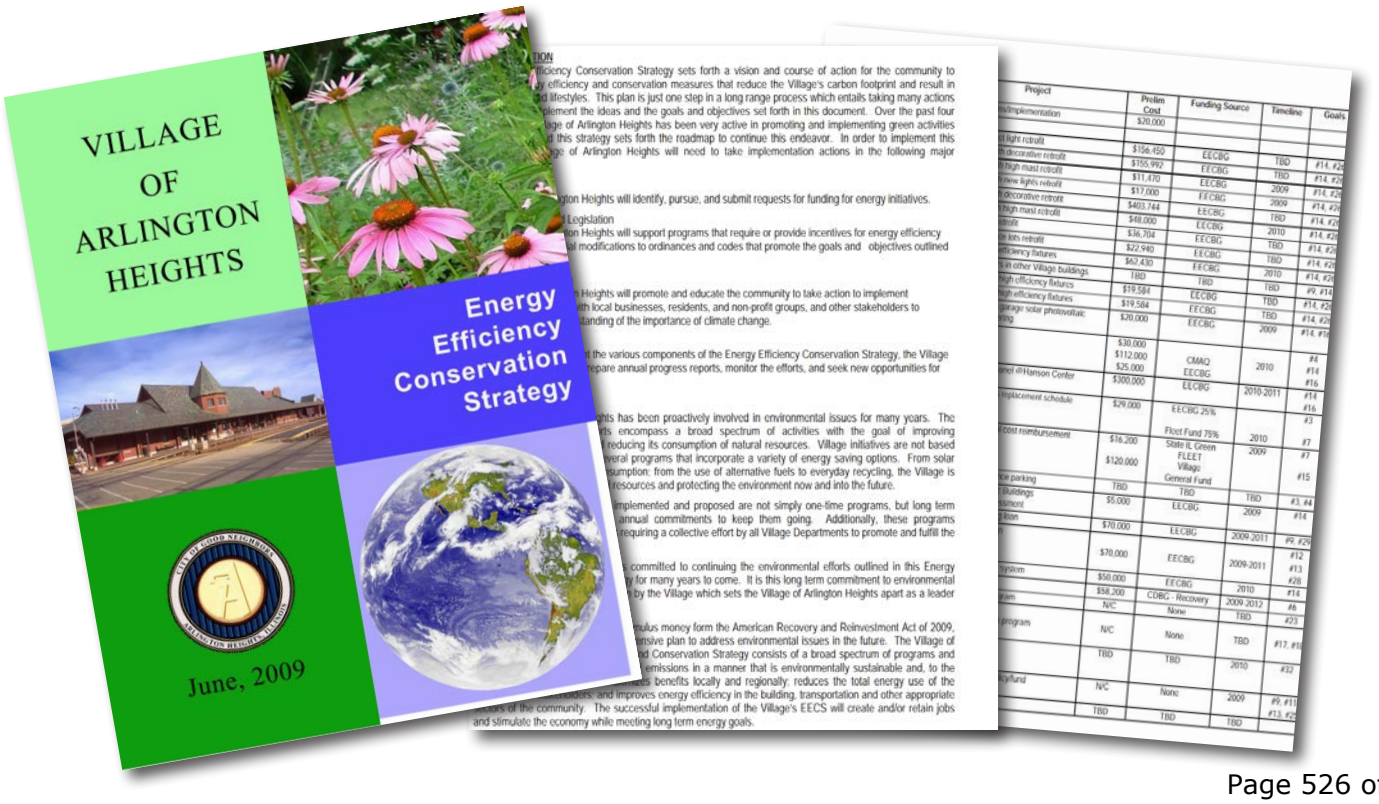
This Sustainability Plan expands and borrows from the UN World Commission on Environmental Development's definition of sustainable development as development that meets the needs of the present without comprising the ability of future generations to meet their own needs. This plan builds on the relevant topics covered in the EECS, presenting 37 goals and more than 200 objectives and strategies allowing for alignment with regional partners.

PLAN DEVELOPMENT

Since the initial development of the EECS, sustainable practices have become a larger part of the Village's dialogue in areas such as building maintenance, fleet operations, and various Village polices. As a result, the update to the EECS lent itself to a more expansive concept of sustainability. This plan accounts for the Village's accomplishments and better coordinates project and policy outcomes between Village departments. The result is a plan which creates a better platform to develop, promote, and document Village activities, improving quality of life and creating a more resilient future.

The first step in the development of the plan was to form a Sustainability Plan Working Group represented by critical staff from each department and division involved with the implementation of the Plan. The Working Group served to identify project and policy accomplishments since 2009, functioning as a sounding board for refining goals and objectives to be included in the Sustainability Plan. The list of departments/divisions included:

- Integrated Services
- Planning & Community Development
- Building & Life Safety
- Finance
- Health & Human Services
- Public Works & Engineering



THE GRC2 FRAMEWORK

The Greenest Region Compact (GRC) Framework was utilized as a pathway for sharing and refining sustainability goals with the Working Group. The framework draws from the GRC developed through the Metropolitan Mayors Caucus (MMC). The MMC is a membership organization of the Chicago region's 275 cities, towns, and villages, providing a forum for local partners to work cooperatively and share information on issues that impact the quality of life of local residents.

The GRC leveraged these partnerships into 49 goals supported in sustainability plans across the region. The Village of Arlington Heights is one of 164 communities that have endorsed the GRC through a Village Board resolution in 2007 as well as the update to the framework, the Greenest Region Compact 2 (GRC2), in 2016. Village staff utilized the GRC Framework tool to communicate potential goals and strategies with the Working Group. The tool helped identify strategies and create a method to inventory accomplishments since the EECS was adopted. The final set of sustainability categories were reduced from the ten outlined in the GRC2 framework into seven categories that best fit the operational structure and local goals of Arlington Heights. The framework was consolidated into 37 goals and over 200 strategies by the Working Group. The strategies identify implementation status and relevant departments for implementation.

The GRC2 makes the following pledge:

> *"The member municipalities of the Metropolitan Mayors Caucus seek a vibrant, sustainable future for their communities and the greater Chicago region. The consensus goals of the Greenest Region Compact aim for enhanced quality of life for residents; protection and stewardship of the environment and sustainable economic vitality."*

Metropolitan Mayors Caucus

GRC2 Greenest Region Compact

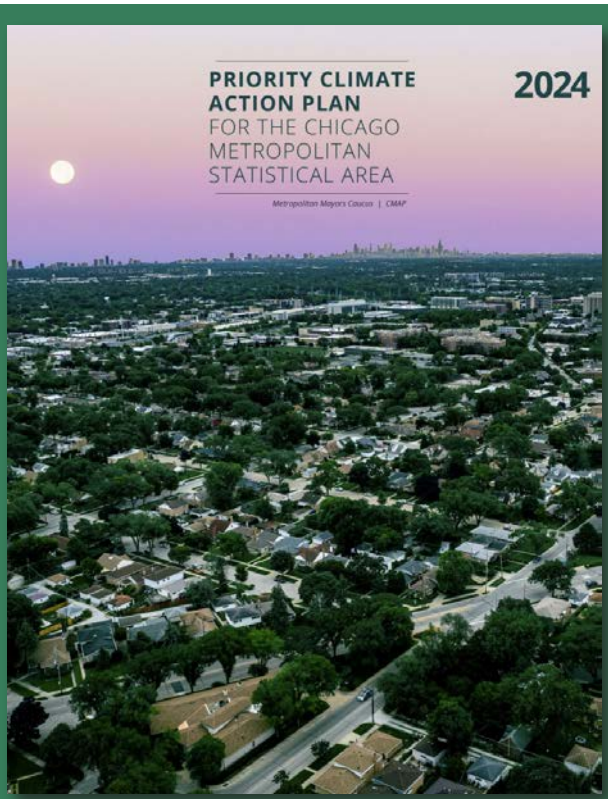
COLLABORATING FOR SUSTAINABLE COMMUNITIES

THE NCS AND PCAP

The update to the EECS also draws from The National Community Survey (NCS) which reports on the "livability" of Arlington Heights based on the responses of a sample of residents in the Village. The NCS, developed with the National Research Center at Polco, was conducted by the Village in 2025 and captured residents' opinions on various focus areas. The responses are measured against national averages and previous survey results to determine if there are trends and areas of emphasis for the future. The topics of the NCS that related most to the Sustainability Plan included Mobility, Community Design, Utilities, Natural Environment, and Inclusivity and Engagement.

Finally, this plan references the 2024 Priority Climate Action Plan (PCAP) for the Chicago Region. The PCAP, led by the MMC and Chicago Metropolitan Agency for Planning (CMAP), outlines a plan for climate action that reduces emissions, supports economic development, and improves quality of life. It also aids local governments in the Chicago Metropolitan Statistical Area qualify for federal funding for climate action strategies. The PCAP was funded by the US Environmental Protection Agency (EPA) and provides a Greenhouse Gas (GHG) inventory, GHG emissions projections, GHG reduction strategies, and tools on how to calculate the impacts of local strategies and their intersection with funding availability. References to the PCAP in each of the Sustainability Categories provide context on how strategies impact activities which can lead to GHG emission reductions.

Please rate each of the following characteristics as they relate to Arlington Heights as a whole. (% excellent or good)		vs. benchmark*
Overall economic health	87%	Higher
Overall quality of the transportation system	64%	Similar
Overall design or layout of residential and commercial areas	83%	Higher
Overall quality of the utility infrastructure	77%	Similar
Overall feeling of safety	88%	Similar
Overall quality of natural environment	77%	Similar
Overall quality of parks and recreation opportunities	85%	Similar
Overall health and wellness opportunities	87%	Higher
Overall opportunities for education, culture, and the arts	85%	Higher
Residents' connection and engagement with their community	76%	Higher
Please rate how important, if at all, you think it is for the Arlington Heights community to focus on each of the following in the coming two years. (% essential or very important)		
Overall economic health	93%	Similar
Overall quality of the transportation system	74%	Similar
Overall design or layout of residential and commercial areas	67%	Similar
Overall quality of the utility infrastructure	91%	Similar
Overall feeling of safety	92%	Similar
Overall quality of natural environment	80%	Similar
Overall quality of parks and recreation opportunities	87%	Similar
Overall health and wellness opportunities	71%	Similar
Overall opportunities for education, culture, and the arts	70%	Similar
Residents' connection and engagement with their community	63%	Similar



THE FRAMEWORK MATRIX

Each element of the Sustainability Plan is organized into seven topics which include a matrix outlining related goals, strategies, completion timeline, and Village department assosciated with implementation. These topics include the following:

- Energy
- Land
- Mobility
- Community
- Municipal Operations
- Waste & Recycling
- Water

The matrices were developed using the GRC2 Framework, which was revised by the Working Group to meet the specific needs of Arlington Heights. An example matrix is explained below:

Through the efforts outlined in this plan, the Village aims to achieve its sustainability **goals**.

Strategies are the actions the Village is taking to achieve its sustainability goals.

A strategy's **timeline** estimates the length of time it will take to complete.

Goal	Strategy	Timeline	Department
Advance renewable energy	E13. Install and operate renewable energy systems at municipal facilities	Ongoing	Public Works & Engineering
	E13a. *Use power purchase agreements, leasing and other strategies to finance renewable energy systems*	Long Term	Finance
	E14. Support the adoption of renewable energy technologies in the community	Ongoing	Building Planning
	E14a. *Adopt codes and permitting practices that support renewable energy systems in the community*	Short Term	Building Planning

Sub-strategies are *italicized*. These are additional steps that help support their strategy.

Each strategy and sub-strategy is labeled with a letter and number for easy reference.

Each strategy has at least one Village **department** which will be responsible for its execution.

IMPLEMENTATION

Successfully meeting the goals in the Sustainability Plan hinges on the Village's ability to sustain implementation of the various strategies identified and refined as part of the plan development. Many of the Village departments already monitor and report their progress on these strategies on a quarterly and annual basis and will be able to attribute specific accomplishments and outcomes to the corresponding goals and strategies moving forward. This process will also remove or revise strategies that are not as effective in meeting plan goals.

In three years, Village departments will review the strategies to which they were assigned responsibility to identify effective strategies as well as gaps in meeting plan goals. The reporting data will provide the basis for refining goals and strategies to potentially be more specific, measurable, and time-bound. Certain aspects may be removed if it is determined that they are no longer relevant to the plan. This ensures that the reporting moves from tracking activities into driving actionable outcomes germane to the sustainability goals of the Village. Evolving the plan through this approach fulfills the intention of developing the Sustainability Plan as a "living document" to meet the changing needs of the community.

ENERGY

Efficient energy use and supporting policies were the basis for the 2009 EECS and still remain critical focus areas for the Village. The strategies within this topic address how energy efficiency is impacted by Village operations and policies that promote lower energy consumption in commercial and residential developments.

Respondents to the National Community Survey (NCS) deemed utilities as essential, more than any other facet of livability in the survey. The results underscore the importance of maintaining resilient and high-quality sources of energy through a myriad of activities, including energy efficiency and developing new sources of power.

Implementing efficient energy use strategies will also further the objectives in the 2024 Priority Climate Action Plan (PCAP) for the Chicago Metropolitan Statistical Area to Demonstrate Leadership, Decarbonize Energy Sources, and Optimize Building Energy. The PCAP estimates commercial buildings, including institutional uses, account for more than 23 percent of Greenhouse Gas (GHG) emissions in Cook County, reinforcing the importance on energy use in buildings. One of the priority strategies of the PCAP is to increase renewable energy supply and energy storage capacity for residential, commercial, municipal, institutional and industrial electricity use. Many of the ongoing and planned initiatives to address energy production and usage of municipal facilities address this strategy which is projected to have the largest potential impact on future GHG emission reduction targets in the PCAP.

ENERGY EFFICIENT LED LIGHTING

The Village has implemented a multi-year LED Lighting Upgrade Program. The program is intended to replace existing high-pressure sodium streetlight fixtures and parking garage lighting with energy efficient LED lighting. Since the 2017, the Village has replaced 2,978 streetlight fixtures, and 1,149 fixtures in the Evergreen, North, Vail Avenue, and Public Works garages. Additionally, Public Works upgraded their bays and garage areas. In total, these projects represent over $700,000 worth of investments with approximately half of the projects paid through the ComEd incentive program.

ENERGY ACHIEVEMENTS

Since the development of the 2009 EECS, the Village has achieved the following objectives under the category of Energy:

- Installed waste oil heater in the Public Works garage, providing on-site recycling of used oil to provide a sustainable heating option.
- Installed energy-efficient heat pumps as part of the HVAC installation at the Pop Factory located in the Historical Campus.
- Implemented a multi-year LED street lighting upgrades in coordination with funding through the ComEd Street Light Program.
- Adopted the 2021 Illinois Energy Conservation Code which ensure energy efficiency construction standards in private development.
- Installed solar panels at the Public Works facility in late 2025 that will allow for lower energy use.
- Installed solar bike shelters at the Arlington Heights Train Station which generate an estimated 2,100 Kw of power per year.
- Installed solar powered warning sirens throughout the Village.
- Installed LED decorative street lighting throughout Downtown, reducing energy consumption by approximately 119,149 kWh per year.
- Implemented multi-year LED lighting upgrades to the Village-owned parking garage streets with funding assistance from ComEd.
- Participated in the US EPA USA Green Power Community program in conjunction with MC Squared Energy Services. The program tracks green power use and percentage of total electricity use. (Since 2000)
- Installed over 18,000 new technology water meters. The meters, which are connected using existing ComEd meter technology, monitor water usage live to eliminate potential losses. The meters eliminate the need to drive vehicles by every home to retrieve usage data.

ENERGY
GOALS & OBJECTIVES

Goal	Strategy	Timeline	Department
Use energy for building and facilities efficiently	E1. Conduct energy audits of municipal facilities	Complete	Public Works & Engineering
	E2. Implement energy efficiency measures that have a short-term payback	Short Term	Public Works & Engineering
	E3. Implement energy efficiency measures with longer-term paybacks	Long Term	Public Works & Engineering
	E4. Collaborate with utilities and other agencies to upgrade streetlight equipment/integrate smart technologies	Ongoing	Public Works & Engineering
	E5. Budget and plan for long-term energy efficiency equipment upgrades	Long Term	Finance
	E6. Consolidate and/or share the delivery of public services with other local governments if possible	Ongoing	Integrated Services
	E15. Power down equipment when possible	Ongoing	All
Engage the community in clean energy practices	E7. Partner with electric and gas utilities to promote energy efficiency programs	Ongoing	Integrated Services
	E8. Promote the use of ENERGY STAR certified appliances and equipment	Ongoing	Integrated Services
	E9. Publicly recognize institutional and private buildings that achieve a specific energy efficiency targets	Ongoing	Integrated Services
	E10. Collaborate to educate the community about clean energy options	Ongoing	Integrated Services
	E11. Support procurement of renewable energy through community choice aggregation	Short Term	Finance
	E12. Use 'smart' technology to efficiently manage waste, water, fleet, air and energy data	Ongoing	Public Works & Engineering

Goal	Strategy	Timeline	Department
Advance renewable energy	E13. Install and operate renewable energy systems at municipal facilities	Ongoing	Public Works & Engineering
	E13a. *Use power purchase agreements, leasing and other strategies to finance renewable energy systems*	Long Term	Finance
	E14. Support the adoption of renewable energy technologies in the community, including new and existing businesses	Ongoing	Building Planning
	E14a. *Adopt codes and permitting practices that support renewable energy systems in the community*	Short Term	Building Planning
	E14b. *Facilitate access to renewable energy systems through collaborative purchasing for residents and business*	Ongoing	Finance
	E15. Procure renewable energy for public facilities	Ongoing	Finance

LAND

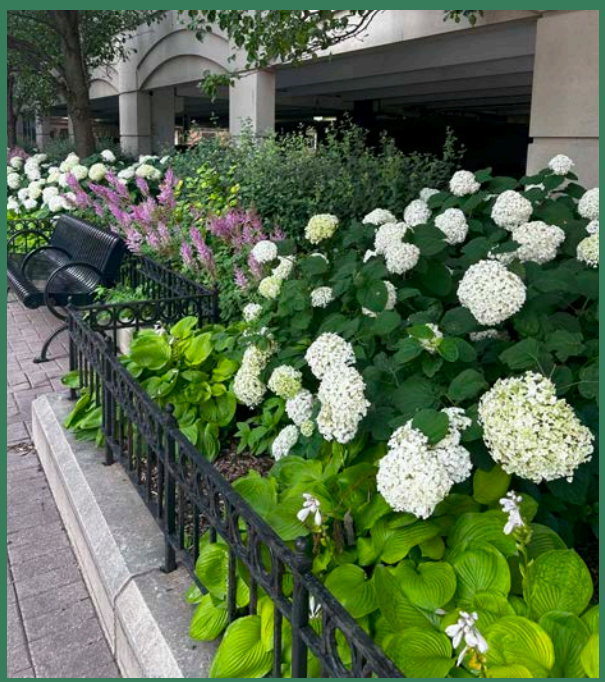
Promoting sustainable land development has been a hallmark of the Village of Arlington Heights. Sustainable housing and land use policies have driven Transit-Oriented Development (TOD) in the downtown and the surrounding neighborhoods in the vicinity of the Arlington Heights Train Station. This topic reinforces and expands on successful strategies to promote the preservation and conservation of land, support new parks and recreation, invest in urban forestry, and sustainable development housing policies.

The National Community Survey (NCS) reflected residents' positive sentiments about land use in two ways. The first relates to the overall quality of parks and recreation and preservation of the historical or cultural character of the community. Residents also expressed the importance of certain aspects of community design, including well-planned residential growth and land use planning. The goals and strategies under this focus area will help guide staff as planned redevelopment efforts come to fruition.

Residential and commercial developments account for more than 59% of the greenhouse gas emissions in Cook County according to the 2024 Priority Climate Action Plan (PCAP) for the Chicago Metropolitan Statistical Area (MSA). Implementing land development practices and policies that meet the goal of this plan can mitigate these impacts and contribute to clean air and regional climate goals.

INCREASING NATIVE LANDSCAPES

The Village has been actively improving landscapes throughout the community, with an emphasis on incorporating native plants. By shifting the focus to native plantings, the Village has been able to reduce watering demands and labor, while enhancing the beauty of the community, as well as creating substantial habitats for a myriad of insects and birds. Urban sites and soils can create a challenge for plant design, selection, and establishment, but after years of work, some of the most demanding sites in the Village are now teeming with life and beauty! The Village also owns and maintains one Army Corps of Engineers delineated wetland, three naturalized wet bottom retention basins, and one naturalized pond.



LAND ACHIEVEMENTS

Since the development of the 2009 EECS, the Village has achieved the following objectives under the category of Land:

- Continued implementation of the Downtown Master Plan has led to land use investments in the vicinity of the Arlington Heights Train Station, bolstering the area as a critical Transit Oriented Development (TOD) node in the region.
- Adopted an Inclusionary Housing Ordinance in 2020, requiring affordable units be included in residential development projects. Implementation of the ordinance has led to construction of new affordable housing units, some along major transit routes, further reinforcing the sustainable outcomes of this effort.
- Maintained 36,000 parkway trees and plants, planting an average of 287 parkway trees annually, leading to improved air quality and mitigating climate change.
- Improved Village managed landscape areas with an emphasis on incorporating native plants which create substantial habitat for a myriad of insects and birds while enhancing the beauty of the Village.
- Continued investment and utilization of Harmony Park as a green space and civic hub, highlighting the Village's emphasis on comprehensive land use and integration of open space in the built environment.

LAND
GOALS & OBJECTIVES

Goal	Strategy	Timeline	Department
Encourage strategic development that upholds sustainability principles	L1. Reduce sprawl by promoting infill development	Ongoing	Planning
	L1a. *Encourage the development of compact and complete residential neighborhoods*	Ongoing	Planning
	L1b. *Protect greenfields and open space*	Ongoing	Planning Public Works & Engineering
	L1c. *Redevelop underutilized or contaminated properties*	Ongoing	Planning
	L2. Prioritize redevelopment projects and infrastructure investment for transit-served locations	Ongoing	Planning
	L2a. *Pursue transit oriented development and transit-supportive land uses in new development*	Ongoing	Planning
	L2b. *Seek public-private partnerships to create transit-oriented developments*	Ongoing	Planning
	L3. Encourage conservation design to protect natural resources	Ongoing	Planning
	L4. Integrate resiliency into land development decisions	Ongoing	Planning
Conserve restore and enhance natural features and ecosystems	L5. Conserve key natural assets and open space	Ongoing	Public Works & Engineering
	L6. Guide future development to conserve natural topography, views, drainage patterns, existing vegetation, and historic or cultural assets	Ongoing	Planning Public Works & Engineering
	L7. Prioritize the acquisition, dedication and management of lands to create connected greenways	Ongoing	Planning Public Works & Engineering
	L8. Manage public and private landscapes to optimize ecosystem services and support biodiversity	Ongoing	Public Works & Engineering
	L9. Protect and restore soil integrity	Ongoing	Public Works & Engineering
	L9a. *Enforce soil erosion and sediment control regulations for construction sites*	Ongoing	Public Works & Engineering

Goal	Strategy	Timeline	Department
Sustain a robust urban forest canopy	L10. Conduct a community wide urban tree canopy assessment or collaborate on a regional study	Ongoing	Public Works & Engineering
	L11. Conduct an inventory and assessment of trees on public right of ways	Ongoing	Public Works & Engineering
	L12. Develop and implement a management plan to assure a long-term vitality of the urban forest	Ongoing	Public Works & Engineering
	L13. Maintain the health and integrity of existing trees	Ongoing	Public Works & Engineering
	L13a. *Maintain health of trees on public right of way*	Ongoing	Public Works & Engineering
	L13b. *Collaborate with utilities to maintain trees compatible with overhead powerlines*	Ongoing	Public Works & Engineering
	L13c. *Practice integrated pest management to sustain urban forest health*	Ongoing	Public Works & Engineering
	L13d. *Assess structural integrity of trees and proactively mitigate risks through strategic removal and other actions*	Ongoing	Public Works & Engineering
	L14. Plant trees to sustain and renew the urban forest	Ongoing	Public Works & Engineering
	L15. Diversify the urban forest for long term resilience	Ongoing	Public Works & Engineering
	L16. Manage traditional, cultivated landscapes sustainably	Ongoing	Public Works & Engineering
	L16a. *Use integrated pest management strategies for municipal landscapes to reduce impacts from fertilizers and pesticides*	Ongoing	Public Works & Engineering
	L16b. *Use native and sustainable landscaping on municipal properties*	Ongoing	Public Works & Engineering

LAND
GOALS & OBJECTIVES

Goal	Strategy	Timeline	Department
Sustain a robust urban forest canopy (cont.)	L19. Maintain beautiful landscapes and streetscapes to enhance gateways, business districts and important public spaces	Ongoing	Public Works & Engineering
Achieve greater livability through sustainable land use and housing policies	L20. Adopt codes and incentives that guide sustainable development that maximizes social benefits and minimizes infrastructure demands	Short Term	Building Planning
	L20a. *Modify zoning and building regulations to allow mixed-use*	Ongoing	Planning
	L20b. *Use zoning and development regulations in strategic locations to increase walkability*	Ongoing	Planning
	L20c. *Promote site design that encourages the development of vibrant, walkable, commercial areas*	Ongoing	Planning
	L21. Enact land use policies that protect natural assets and support resiliency	Short Term	Planning
	L21a. *Enact policies that preserve open space*	Ongoing	Planning
	L21b. *Enact policies that preserve and restore functioning wetlands*	Ongoing	Planning Public Works & Engineering
	L21c. *Protect key natural assets and open space through zoning and planned unit developments*	Ongoing	Planning Public Works & Engineering
	L21d. *Continue to enforce tree preservation ordinance*	Ongoing	Planning Public Works & Engineering
	L22. Integrate resiliency strategies into development policies and plans	Short Term	Planning
	L23. Continue to enforce sustainable tree and landscape planting requirements	Ongoing	Planning
	L24. Collaborate with state and federal partners to prepare for and respond to invasive pest threats	Ongoing	Public Works & Engineering

MOBILITY

Supporting transportation infrastructure that provides safe, effective, and efficient access is a critical element in addressing sustainability. This includes expanding bike and pedestrian access, strategically managing public parking, investing in alternative fueling options, and maintaining efficient roads and transit services. Developing supportive policies and promoting sustainable transportation choices helps link users to these efforts.

The National Community Survey (NCS) identified travel by public transportation, walking and bicycle as being easier in Arlington Heights when compared to the national average. Respondents also reported using public transportation, walking, or biking instead of driving more than the national average, which coincided with a high rating of transit services.

The 2024 Priority Climate Action Plan (PCAP) for the Chicago Metropolitan Statistical Area (MSA) identifies Transportation as contributing 23.2% of Greenhouse Gas (GHG) emissions in the region. Existing actions, as well as the goals of this focus area, align with the goals of the PCAP of mitigating transportation emissions. Maintaining residents' access to transit services will support the objective of Reducing Vehicle Miles Traveled. Expanding alternative fueling infrastructure through EV charging stations has aided in Decarbonize Transportation, one of the most impactful objectives in meeting GHG Emission reduction goals in the PCAP.

BICYCLE AND PEDESTRIAN NETWORK

In 2017, the Village adopted the Bicycle and Pedestrian Plan, which provides recommendations to meet community-wide goals related to access, mobility, heath, and sustainability. As part of this plan, key locations and corridors were analyzed to determine their impact on the goals, as well as potential areas of improvement. As part of the recommendations, the plan proposed a bicycle and pedestrian network that both increases safety for pedestrians, cyclists, and motorists to encourage more people to use alternative forms of transportation. This network includes street treatments that encourage sharing the road instead of emphasizing vehicular traffic.

to Crabtree Drive

This segment is approximately 0.52 miles in length. The width, curb to curb, is approximately 52 feet; ADT is 9,500 (IDOT, 2014); and the posted speed limit is 35 mph.

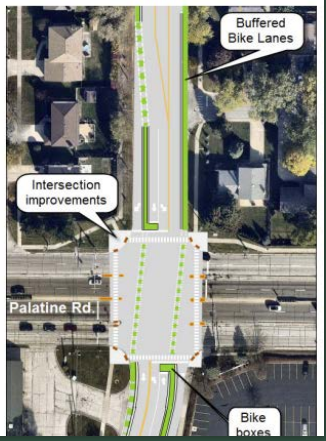
This road segment is indicated as a planned bike route on the 2014 Arlington Heights Bicycle Map. It is part of the proposed framework bikeway network (the north-south "Dryden/Douglas Route"), CMAP's 2009 Regional Greenways and Trails Plan, and is currently (per Strava data) heavily used by cyclists. It is also one of six high-priority projects identified by the BPAC. The route directly serves one of the Village's most popular parks and multiuse paths (Lake Arlington Park and Trail) and provides, at the signalized intersection at Palatine Road, one of the few relatively safe crossings

of this Palatine Road in this part of the Village. At the northern end of the proposed project, the facility would connect to the McDonald Creek pathway, and at the south, to the point at which the Dryden/Douglas framework bike route crosses Rand Road. Both of these corridors are specified as regional bikeways in the Regional Greenways and Trails Plan.

In addition to providing space for the installation of buffered bike lanes, implementing a road diet along Windsor Drive can help to improve safety and livability around Lake Arlington Park and the nearby existing greenways, which are heavily used by many types of residents, including families with children, youth, and seniors. The proposed reconfiguration would also allow for the installation of a raised center median where a turn lanes are not called for.

Figure 4.52 - Wilke Road (at Lake Cook Road), Road diet / buffered bike lanes concept

Figure 4.53 - Windsor at Palatine



MOBILITY ACHIEVEMENTS

Since the development of the 2009 EECS, the Village has achieved the following objectives under the category of Mobility:

- Implemented recommendations of the Downtown Master Plan supporting transit-oriented development and context sensitive transportation improvements.
- Coordinated with PACE to expand on-demand bus service through a pilot program. (2025)
- Installation of EV charging station in the Vail Avenue garage.
- Enacted the Idle Free Initiative which encourages drivers and Village employees to reduce idling through signage and outreach.
- Initiated Biodiesel Fuel program for all large trucks used by the Village, including Fire Department and Public Works/Engineering equipment, significantly decreasing soot, hydrocarbon and carbon monoxide emission levels. The fuel blend utilizes soybeans, vegetable oils, and animal fats produced in Illinois.
- Adopted the Bicycle and Pedestrian Master Plan in 2017.
- Updated the Village zoning code to require bicycle parking as part of all new multi-family and commercial developments.
- Implemented several traffic calming initiatives including:
  - Windsor Drive Road Diet Project
  - Downtown Arlington Heights mid-block pedestrian crossings
- Promoted the Arlington Heights Farmers Market, aiding reducing emissions related to the production and transportation of food.
- Installed shared path investments along Kensington Road and Wilke Road and widened sidewalk improvements along state routes.

MOBILITY
GOALS & OBJECTIVES

Goal	Strategy	Timeline	Department
Support safe and effective active transportation	M1. Identify gaps in pedestrian and bicycle networks and barriers to active modes of travel	Ongoing	Planning
	M2. Implement recommendations from the bicycle and pedestrian plan	Ongoing	Planning
	M3. Collaborate with regional partners to connect on-and off-road bicycle facilities with existing/planned trail networks	Ongoing	Planning Public Works & Engineering
	M4. Provide bicycle parking at municipal facilities, business districts, and transit stations and in neighborhoods	Ongoing	Planning Public Works & Engineering
	M5. Maintain efficient traffic flow within and around the community	Ongoing	Public Works & Engineering
	M6. Synchronize traffic signals to reduce vehicle idling	Short Term	Public Works & Engineering
	M7. Incorporate sustainable roadways into capital improvement planning, proactively plan for major transportation infrastructure improvements	Ongoing	Public Works & Engineering
	M8. Coordinate with regional transportation agencies to maximize bicycle, pedestrian, vehicular transit, and rail connectivity and mobility	Ongoing	Planning Public Works & Engineering
	M9. Collaborate to provide alternative fuel infrastructure at public sites	Ongoing	Public Works & Engineering
	M10. Incorporate trees and green infrastructure into roadway design and maintenance	Ongoing	Public Works & Engineering
Support efficient transportation that uses resources wisely	M11. Support investment to improve efficiency in passenger/freight railroads	Ongoing	Integrated Services
	M12. Collaborate to support a network of alternate fueling infrastructure	Ongoing	Public Works & Engineering
	M13. Seek both public and private partnership to finance transportation system improvements	Ongoing	Finance Public Works & Engineering
	M14. Strategically manage parking policies to advance sustainability	Ongoing	Planning

Goal	Strategy	Timeline	Department
Integrate sustainability into transportation policies, programs and regulations	M15. Enact and enforce anti-idling policies for public fleet vehicles	Ongoing	Public Works & Engineering
	M16. Continue no idling zone program	Ongoing	All
	M17. Adapt engineering standards to incorporate sustainable practices into roadway construction and maintenance while assuring public safety	Short Term	Public Works & Engineering
	M18. Adapt building codes to accommodate and encourage alternate fuel infrastructure	Short Term	Building
	M19. Revise subdivision code to promote active transportation, i.e., street sanctions that require bicycle facilities and sidewalks	Ongoing	Planning
Promote public and sustainable transportation choices	M20. Encourage municipal employees to use alternative modes of transportation to commute to work	Short Term	Integrated Services
	M21. Encourage residents and visitors to walk and bike	Ongoing	Integrated Services
	M22. Promote the availability of regional transit options	Ongoing	Integrated Services
	M23. Educate the community on the negative impacts of car idling	Ongoing	Integrated Services
	M24. Advocate for mass transit funding	Ongoing	Integrated Services
	M25. Encourage active transportation and community building in an open streets event	Ongoing	Integrated Services

COMMUNITY

While community engagement is an aspect of each sustainability topic, this section focuses on elements of the community that reinforce a sustainability identity such as arts and culture, access to local food, education, and promoting sustainable principles. An important characteristic of this topic is coordinating with partner agencies and municipalities to cultivate a network of sustainability advocates, build the Village's sustainability brand, and promote cultural and historic resources.

Respondents to the National Community Survey (NCS) ranked Education, Arts, and Culture, as well as Inclusivity and Engagement favorably in terms of quality and importance. Continuing to invest in areas that bolster these ratings also works toward demonstrating leadership, identified as a key objective in the 2024 Climate Action Plan. The high attendance at events hosted by the Village, as reported in the NCS, such as Arlington Alfresco, Sounds of Summer and Harmony Fest, provide ideal venues to continue and augment community engagement goals. Utilizing the Village website will be a critical tool in sharing activities and accomplishments as it ranked as the top source for obtaining information according to the NCS.

TREE UNIVERSITY

Tree University, or TreeU, was started in 2016 through the Public Works Department to educate students on the Village's approach to urban tree stewardship. The program has reached over 3,000 students since its inception, reinforcing the importance of trees and how the Village cares for more than 36,000 street trees. Students receive live demonstrations of forestry equipment and techniques used by the Village, encouraging students to become tree stewards themselves and pursue careers in environmentally related fields, leading to a more sustainable community for years to come. The mission statement for TreeU is:

> *"To be a positive community outreach program that educates young students on the benefits of trees and the importance of proper tree care; a way to work with educators to focus on current forestry related topics that are relevant to their students' curriculum."*

COMMUNITY ACHIEVEMENTS

Since the development of the 2009 EECS, the Village has achieved the following objectives under the category of Mobility:

- Developed “Tree University” as a community outreach and education tool of urban tree stewardship.
- Participated in Earth Day events through Health & Human Services.
- Recognized and celebrated Arbor Day in partnership with Village’s Forestry Division, Arlington Heights Park District, and District 25 elementary schools.
- Recognized as a Tree City USA for over 30 years.
- Received the Tree City USA Growth Award for over 30 years.
- Provided Tips for Living Green and other updates on Village led sustainability projects on the Village’s website (vah.com).
- Organized a public information campaign to promote scheduled irrigation watering hours and other tips to encourage water conservation.
- Shared information regularly on sustainability initiatives, such as installation of Electric Vehicle charging stations in the Village-owned, Vail Avenue Garage.

COMMUNITY GOALS & OBJECTIVES

Goal	Strategy	Timeline	Department
Promote cultural vibrancy in the community	C1. Preserve and maintain the community's historic assets	Ongoing	Planning
	C2. Integrate historical and cultural assets through community programming	Ongoing	Integrated Services
	C3. Develop and implement a public arts plan	Ongoing	Planning
	C4. Continue engaging community volunteers through the Arts Commission	Ongoing	Planning
Increase access to sustainably grown local food	C5. Educate and engage the community in a sustainable food culture	Ongoing	Health
	C6. Incorporate local options into public food-service procurement and events	Ongoing	Integrated Services
	C7. Support and promote family and community gardens	Ongoing	Health
Promote a sustainable identity for the community	C8. Develop and maintain a community brand that highlights sustainability	Ongoing	Integrated Services
	C9. Incentivize green building in new construction and re-construction	Short Term	Building Planning
Assure local policies and codes support sustainability	C10. Identify existing Code impediments sustainable building and site best practices	Ongoing	Building Planning
	C11. Develop housing policies, programs, and regulations designed to support and promote sustainability	Ongoing	Building Planning
Cultivate community values based on principles of sustainability	C12. Educate the community about sustainability initiatives using existing municipal communication outlets (i.e., website, social media, newsletters)	Ongoing	Integrated Services
	C13. Use community festivals, lectures, workshops and other events to share information about sustainability	Ongoing	Integrated Services
	C14. Distribute sustainability information and resources provided by other allied organizations and government agencies	Ongoing	Integrated Services
	C15. Inform the community about air quality index and air pollution action days	Ongoing	Integrated Services

Goal	Strategy	Timeline	Department
Cultivate community values based on principles of sustainability	C16. Utilize strategic partnerships with other community organizations to promote sustainability	Ongoing	Integrated Services
	C17. Participate in regional and national sustainability networks	Ongoing	Integrated Services
	C18. Encourage the community to participate in sustainability initiatives and events	Ongoing	Integrated Services
	C19. Continue supporting the inter-departmental sustainability working group	Ongoing	All
	C20. Continue engaging residents in sustainability initiatives through the environmental commission	Ongoing	Health
	C21. Host environmentally focused events	Ongoing	Integrated Services
	C22. Promote green building practices to residents, businesses and developers	Ongoing	Building Planning
	C23. Create a recognition program to encourage and report sustainable behaviors for residents and businesses	Ongoing	Integrated Services

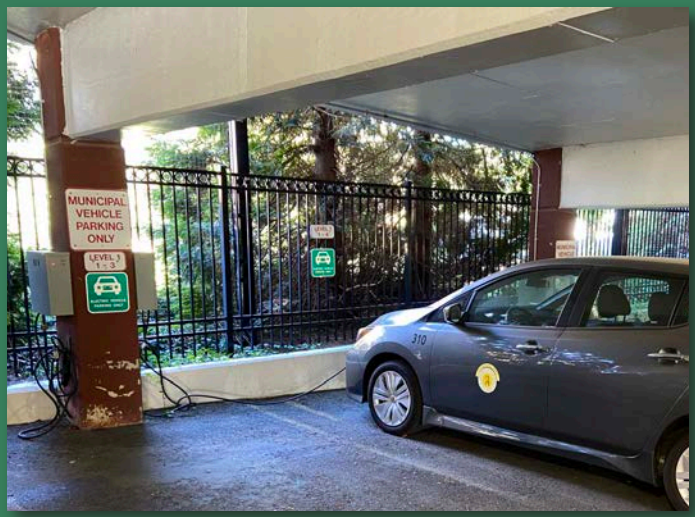
MUNICIPAL OPERATIONS

Continuing to integrate sustainable practices in all municipal operations is an essential pathway to addressing sustainable resource management and providing leadership in the community. Refining and documenting the success of sustainable practices allows the Village to track progress and create benchmarks for future success.

The implementation of the Biodiesel Fuel program, introducing Electric Vehicles (EV) into the Village fleet and installing public EV charging stations have been among the most impactful initiatives related to municipal operations. This echoes the priorities of the Greenest Region Compact (GRC) Framework and priority objectives of the 2024 Priority Climate Action Plan (PCAP) for the Chicago Metropolitan Statistical Area (MSA). These activities have and will continue to Decarbonize Transportation and Energy Sources. Managing municipal operations can address Building Energy and Clean Energy Policy amongst other objectives for reducing Greenhouse Gas (GHG) emissions in the PCAP.

EXPANDING OUR HYBRID & EV FLEET

Since 2009 the Village has added 20 hybrid vehicles to its fleet, yielding a 60% increase in fuel economy. The Village has taken this approach a step further through the purchase of 13 electric vehicles saving more than 4.6 tons of carbon exhaust per replaced gas-powered vehicle and yielding substantial operating cost savings. In addition, the Village installed 8 new electric vehicle charging stations at the Village-owned Vail Avenue garage. The stations expand electric charging infrastructure for the general public as well as the residents who lease parking spaces from the surrounding multi-family developments.



MUNICIPAL OPERATIONS ACHIEVEMENTS

Since the development of the 2009 EECS, the Village has achieved the following objectives under the category of Mobility:

- Maintained an Aa1 Bond rating from Moody's helping to minimize costs in operating Village led activities.
- Began utilization of a liquid beet juice blend to anti-ice streets and pre-wet road salt leading to a reduction in salt usage over time. (2008)
- Leveraged the Energy Efficiency and Conservation Block Grant (EECBG) to procure two Public Works EV powered vans and an Electric Utility Task Vehicle (EUTV) for the Police Department for use at special events and public safety support.
- Initiated Biodiesel Fuel program for public works vehicles, significantly decreasing soot, hydrocarbon and carbon monoxide emission levels.
- Maintained 36,000 parkway trees and plants, planting an average of 287 parkway trees annually, leading to improved air quality and mitigating climate change.
- Installed LED fixtures in street lighting, traffic signals, parking garage deck lighting, and various Village owned facilities.
- Installed solar powered warning sirens.
- Recognized as the 2013 Illinois Governor's Sustainability Award Winner for demonstrating best practices in sustainability.
- Recognized by the American Public Works Association (APWA) Chicago Metro Chapter for various projects and efforts including the construction of the Arlington Heights Police Station in 2020 and Professional Manager of the Year Award in Public Rights of Way in 2024.

MUNICIPAL OPERATIONS GOALS & OBJECTIVES

Goal	Strategy	Timeline	Department
Lead by demonstrating sustainable values and practices	O1. Support an interdisciplinary team to coordinate internal sustainability efforts	Ongoing	All
	O2. Dedicate staff to direct sustainability initiatives	Ongoing	All
	O3. Leverage state/federal and private grants to advance sustainability	Ongoing	All
	O4. Educate and train staff on sustainability practices	Ongoing	All
	O5. Formalize sustainability goals	Ongoing	All
	O6. Consolidate and/or share the delivery of public services with other local government	Ongoing	Public Works & Engineering Integrated Services
Integrate sustainability into all municipal operations	O7. Implement environmental purchasing policy	Short Term	Finance
	O8. Extend useful life of physical assets	Ongoing	PW&E
	O9. Manage special events sustainably	Ongoing	Integrated Services
	O10. Integrate sustainability into capital planning	Ongoing	All
	O11. Inventory, assess and manage municipal assets sustainably	Ongoing	Public Works & Engineering
Operate a safe, clean and efficient fleet	O12. Operate a safe, clean and efficient fleet	Ongoing	Public Works & Engineering
	O12a. *Conduct baseline fleet analysis*	Ongoing	Public Works & Engineering
	O12b. *Optimize fleet performance by reconciling tasks and vehicle types*	Ongoing	Public Works & Engineering
	O12c. *Increase fleet efficiency through driver education and training*	Ongoing	Public Works & Engineering
	O12d. *Modify and retrofit vehicles to use alternate fuels*	Ongoing	Public Works & Engineering
	O12e. *Migrate fleet to alternate fuel vehicles*	Ongoing	Public Works & Engineering
	O13. Collaborate with businesses, industry leaders and other agencies to develop alternative fuel infrastructure	Ongoing	Public Works & Engineering

Goal	Strategy	Timeline	Department
Collect and manage data to advance sustainability	O14. Track, analyze and manage data to advance sustainability	Ongoing	All
	O14a. *Establish performance metrics*	Short	All
	O14b. *Collect and organize data*	Ongoing	All
	O14c. *Report and share data*	Ongoing	All
	O14d. *Continue to track and monitor data over time*	Ongoing	All
	O15. Use smart technology to efficiently manage waste, water, fleet, air and energy data	Ongoing	Public Works & Engineering
Enlist support for GRC2 goals through regional, state and national leadership	O16. Share information about municipal leadership in sustainability broadly in the community and externally	Ongoing	Integrated Services
	O17. Seek recognition for community sustainability achievements	Ongoing	Integrated Services
	O18. Partner with other local governments to achieve efficiency and sustainability goals	Ongoing	Integrated Services
	O19. Participate with regional, state and federal initiatives to plan and achieve sustainability goals	Ongoing	Integrated Services

WASTE & RECYCLING

Continuing to refine and expand recycling and sustainable waste management is an ongoing process in the Village of Arlington Heights. The goal is to maximize the impact of existing programs through community engagement while being responsive to residents' needs and best management practices that support these efforts across all sectors.

Developing goals through the Greenest Region Compact (GRC) Framework was informed by the 2025 National Community Survey (NCS). In the open-ended responses, 60% of residents were somewhat or very interested in a year-round composting program if it were offered to the community. Coupled with high satisfaction with recycling, yard waste pick-up, and garbage services, this feedback steered recommendations in this focus area towards maintaining and improving existing programs and efforts to implement a composting program. This goal is further reinforced in the 2024 Priority Climate Action Plan (PCAP) for the Chicago Metropolitan Statistical Area (MSA) which identifies increased compositing and biological treatment of waste as a priority greenhouse gas reduction strategy.

PAINT RECYCLING TO REDUCE WASTE

The Village has been holding latex paint recycling events since 2022 in cooperation with Groot Industries and Earthpaint.org. These collections have proven popular with our residents, many of whom have had left-over paint that has accumulated over years. For example, in 2024 alone, over 3.400 gallons of paint and stain were collected. In addition to paint, the Village also collects electronics, plastic bags/film, expired medications, and more to keep these hard-to-recycle items out of landfills.

WASTE & RECYCLING ACHIEVEMENTS

Since the development of the 2009 EECS, the Village has achieved the following objectives under the category of Waste & Recycling:

- In the last five years (2020-2024) the Village has collected the following from single-family homes:
  - Over 17,800 tons of paper recycling
  - Over 5,000 tons of comingled recycling products
  - Over 16,500 tons of compost
- Maintained 24 sidewalk recycling containers in the downtown area and collects plastic bags/film at the Village Hall, Public Works and Senior Centers. In addition, the Health Department accepts fluorescent bulbs, eyeglasses, rechargeable batteries, and holiday lights in season.
- Developed food scrap program through the Village's Solid Waste hauler.
- Organized regular recycling events for the following materials:
  - Document Destruction
  - Latex Paint
  - Compact Fluorescent Bulbs
  - Electronics
  - Holiday Lights
  - Plastic Bags and Film
  - Curbside Hazardous Waste Collection
  - Expired Medications and Sharps
  - Recycling of other items including Christmas trees.
- The Village currently partners with 708 curbside food scrap collection participants.
- Adopted ordinance restricting the burning of landscape waste.

WASTE & RECYCLING GOALS & OBJECTIVES

Goal	Strategy	Timeline	Department
Support sustainable material management	R1. Set specific waste reduction goals for the municipal operations and the community at large	Short Term	Health
	R2. Promote and practice waste reduction & recycling in municipal operations	Ongoing	All
	R3. Reduce the use of paper in municipal offices	Ongoing	All
	R4. Conduct waste audits to identify waste reduction opportunities	Ongoing	Health
	R5. Make public events "zero waste"	Short Term	Integrated Services
Recycle materials across all sectors	R6. Establish specific residential, commercial, and institutional recycling goals	Short Term	Health
	R7. Provide curbside recycling for residents	Ongoing	Health
	R8. Provide access to recycling infrastructure and services at public places	Ongoing	Health PW&E
	R9. Support regional efforts for developing a food scrap composting services	Ongoing	Health
Divert waste from landfills	R10. Collaborate to support proper disposal of: • Household hazardous waste • Pharmaceutical and personal care waste • Fats, oils, and grease • Electronic waste	Ongoing	Health PW&E
	R11. Collaborate to provide recycling service for items not currently eligible for curbside pickup e.g. clothing, shoes, Christmas trees and lights	Ongoing	Health PW&E
	R12. Eliminate policy barriers to on-site composting	Ongoing	Health
	R13. Engage with Solid Waste agencies to manage waste sustainably	Ongoing	Health
	R14. Discourage the use of products resulting in un-manageable waste (e.g. plastic bags)	Ongoing	Health

Goal	Strategy	Timeline	Department
Engage the community in waste reduction and recycling	R15. Educate the community on recycling and composting practices	Ongoing	Health
	R16. Educate the community to reduce waste by consuming less and reusing	Ongoing	Health
	R17. Discourage fly dumping and littering	Ongoing	Health
	R18. Organize a community wide clean-up day	Short Term	Health
	R19. Engage community volunteers in recycling education and events	Ongoing	Health
	R20. Regulate burning of landscape waste	Ongoing	Health

WATER

Sustainable management of municipal water and stormwater resources allows the Village to protect waterways and wetlands. The Village employs a comprehensive set of strategies to efficiently manage infrastructure assets, develop policies that lead to greater conservation and stewardship, partner with state and regional efforts, and educate the community on how these efforts make an impact.

The importance of these measures on residents' quality of life was expressed in responses to the 2025 National Community Survey (NCS). The progress in water and wastewater management is reflected in improved ratings on Water Resources, Sewer Services, Storm Water Management, and the Overall Quality of the Natural Environment.

The number of goals and strategies that have been included from the Greenest Regional Compact (GRC) Framework reflects the scale of the activities required to sustainably manage these critical resources. Tracking how the Village meets objectives in this focus area will assist in ongoing capital planning and programming.

WATER PRESERVATION MEASURES

The Village implemented a community-wide upgrade of all residential water meters. The upgrade allows for more efficient and timely service, yearly water audits, and enhanced water loss detection.

The Village owns and maintains one Army Corp of Engineers delineated wetland, three naturalized wet bottom retention basins, and one naturalized pond.

WATER ACHIEVEMENTS

- Initiated Village-wide upgrade of all residential water meters.
- Installed solar panels at the Public Works facility in late 2025 that allow for lower energy use and reduced cost of providing water service as it reduces the rates paid by a revenue generating function of the Village.
- Improved Village managed landscape areas with an emphasis on incorporating native plants in order to reduce watering demands.
- Provided training that helps create strategies to reduce chloride contamination.
- Collaborated with Salt Creek watershed on sensitive water recharge areas which impact the Lake Michigan and Mississippi River watershed area.
- Continued proactive management of the water system and facilitated upgrades to sustainability maintain the water supply system and provide residents with dependable service. This includes:
  - Conducted water rate studies every 5 years.
  - Established a stormwater utility fund.
  - Created an annual program to detect and repair water system leaks.
- Installed green infrastructure demonstration projects at locations such as the Arlington Heights Police Station and municipal building garage.
- Worked with residents to allow green infrastructure initiatives to offset stormwater impacts for improvement projects.
- Updated stormwater ordinance to integrate Illinois State Model Local Stormwater Ordinance.
- Reduced flood risks for residential and commercial properties by implementing the following:
  - Municipal sewer rebate program to install overhead sewer systems.
  - Completed three stormwater studies in response to the impacts of a 2011 record-breaking storm event.
  - Implemented several stormwater upgrade projects, including the Scarsdale Estate Drainage Improvements project.
  - Adopted the 2024 Cook County Multi-Jurisdictional Hazard Mitigation Plan.
  - Executed intergovernmental agreements to build and maintain new stormwater projects, including a detention facility in Klehm Park and Raven Park.
  - In 2016 partnered with MWRDGC to offer free rain barrels to residents.
  - In 2024 partnered with UpCycle to offer low-cost rain barrels to residents.

WATER
GOALS & OBJECTIVES

Goal	Strategy	Timeline	Department
Use and distribute water efficiently	W1. Reduce community water consumption per capita	Ongoing	Public Works & Engineering
	W2. Implement water efficiency measures at all municipal facilities	Ongoing	Public Works & Engineering
	W3. Encourage residents and businesses to identify and mitigate water loss	Ongoing	Public Works & Engineering
	W4. Provide water use audits to customers	Ongoing	Public Works & Engineering
Protect and improve water quality	W5. Protect surface and groundwater from runoff and contamination	Ongoing	Public Works & Engineering
	W5a. *Resolve to eliminate unnecessary landscape pesticides and fertilizer use on municipal property*	Ongoing	Public Works & Engineering
	W5a. *Use sensible salting strategies to reduce chloride contamination*	Ongoing	Public Works & Engineering
	W6. Collaborate to identify sensitive aquifer recharge areas	Ongoing	Public Works & Engineering
	W7. Support post-development runoff reduction and mitigation	Ongoing	Public Works & Engineering
	W8. Collaborate with regional initiatives to protect Lake Michigan and the Mississippi River	Ongoing	Public Works & Engineering
Manage water system assets sustainably	W9. Operate an efficient water utility that delivers clean, healthful, water	Ongoing	Public Works & Engineering
	W9a. *Control water loss by auditing supply system*	Ongoing	Public Works & Engineering
	W9b. *Periodically detect system leaks and develop a strategic plan for repair*	Ongoing	Public Works & Engineering
	W10. Comprehensively and sustainably manage water infrastructure	Ongoing	Public Works & Engineering
	W10a. *Develop a water infrastructure asset management plan to sustain the system*	Ongoing	Public Works & Engineering
	W10b. *Implement a water infrastructure asset management plan*	Ongoing	Public Works & Engineering

Goal	Strategy	Timeline	Department
Manage water system assets sustainably (cont.)	W10c. *Meter 100% of customers with automated reading technology*	Ongoing	Public Works & Engineering
	W10d. *Implement sub-metering for multi-family housing customers*	Ongoing	Public Works & Engineering
	W10e. *Detect/repair water system leaks*	Ongoing	Public Works & Engineering
	W10f. *Repair and replace inefficient water supply infrastructure*	Ongoing	Public Works & Engineering
	W10g. *Support property owners in timely repair of service lines*	Ongoing	Public Works & Engineering
	W11. Invest water revenues into sustaining water infrastructure	Ongoing	Public Works & Engineering
	W12. Coordinate street, utility and water infrastructure projects	Ongoing	Public Works & Engineering
	W13. Seek public and private financing for infrastructure improvements	Ongoing	Public Works & Engineering
Optimize the use of natural and built systems to manage stormwater	W14. Implement green infrastructure best management practices on municipal properties	Ongoing	Public Works & Engineering
	W14a. *Build or retrofit paved surfaces with permeable materials where feasible*	Ongoing	Public Works & Engineering
	W14b. *Install and maintain bioswales, filter strips, trees, rain gardens, and other functional landscapes*	Ongoing	Public Works & Engineering
	W15. Encourage residents and businesses to adopt green infrastructure practices	Ongoing	All
	W15a. *Collaborate to provide rain barrels, plants and other resources to allow resident to capture and store rainwater*	Ongoing	Public Works & Engineering
	W16. Encourage residents and businesses to reduce flood risks on their property	Ongoing	Public Works & Engineering
	W16a. *Incentive overhead basement sewer conversion*	Ongoing	Public Works & Engineering
	W16b. *Encourage property owners to disconnect downspouts from sewers and direct flow to landscaping*	Ongoing	Public Works & Engineering
	W17. Enhance natural features of stormwater detention/retention systems	Ongoing	Public Works & Engineering

WATER
GOALS & OBJECTIVES

Goal	Strategy	Timeline	Department
Optimize the use of natural and built systems to manage stormwater (cont.)	W18. Collaborate to enhance wetlands for improved ecosystem services	Ongoing	Public Works & Engineering
	W19. Collaborate with regional and state agencies to sustainably manage stormwater	Ongoing	Public Works & Engineering
	W20. Establish a stormwater utility funding mechanism	Ongoing	Public Works & Engineering Finance
Enact policies to protect water resources	W21. Conduct a water rate study to determine sustainable rate structure	Ongoing	Public Works & Engineering Finance
	W22. Amend code to require water efficiency and conservation in commercial and residential development	Short Term	Building Planning
	W23. Incorporate conservation practices into development guidelines/incentives	Short Term	Building Planning
	W24. Adopt a water conservation policy and/or plan inclusive of all customers and municipal operations	Short Term	Public Works & Engineering
	W24a. Enact and enforce regulation to control of wasteful water practices	Short Term	Public Works & Engineering
	W24b. Enact and enforce outdoor watering regulations responsive to drought conditions	Short Term	Public Works & Engineering
	W25. Update stormwater ordinance to integrate Illinois State Model Local Stormwater Ordinance	Short Term	Public Works & Engineering
	W26. Adopt codes that enable rainwater harvesting for non-potable uses	Short Term	Public Works & Engineering
	W27. Adopt codes to eliminate barriers to green infrastructure BMPs including bioswales and permeable paving	Short Term	Building Public Works & Engineering
	W28. Allow flexibility (off-site management, payment-in-lieu) to allow developments to meet stormwater management requirements sustainably	Short Term	Public Works & Engineering
	W29. Enact codes that protect surface and groundwater from contamination	Ongoing	Public Works & Engineering

Goal	Strategy	Timeline	Department
Practice stewardship of water resources	W30. Sustain supply of high-quality public water	Ongoing	Public Works & Engineering
	W31. Ensure drinking and wastewater systems are operating efficiently	Ongoing	Public Works & Engineering
	W32. Participate in watershed planning and stewardship efforts	Ongoing	Public Works & Engineering
	W33. Implement municipal recommendations from watershed plan	Ongoing	Public Works & Engineering
	W34. Support regional and statewide water supply planning and stewardship	Ongoing	Public Works & Engineering
	W35. Contribute local data on water supply, quality and operations to support state and regional stewardship	Ongoing	Public Works & Engineering
Engage the community in water stewardship	W36. Educate and support the community to conserve water	Ongoing	PW&E Integrated Services
	W37. Educate the community on the value of clean and safe drinking water	Ongoing	PW&E Integrated Services
	W38. Educate the community on practices that reduce contamination of water resources	Ongoing	PW&E Integrated Services
	W39. Educate customers about public water supply and wastewater operations through media and events	Ongoing	PW&E Integrated Services
	W40. Educate the community on benefits and practices of green infrastructure	Ongoing	Public Works & Engineering
	W41. Educate and support the community in preparing for and managing floods	Ongoing	Public Works & Engineering
	W42. Collaborate to teach water conservation and stewardship in schools	Ongoing	Public Works & Engineering
	W43. Collaborate to raise watershed awareness and foster stewardship	Ongoing	Public Works & Engineering

CONCLUSION

The Village of Arlington Heights has made a great deal of progress in the implementation of sustainability initiatives since the completion of the Energy Efficiency Conservation Strategy (EECS) in 2009. The village-led efforts highlighted in this plan have had a meaningful impact on the quality of life for local residents. The Sustainability Plan will build on this success, aligning existing activities with regionally supported initiatives that address residents' concerns and qualify the Village for potential funding to expand the impact of these efforts. Furthermore, because this plan is designed to be updated regularly, the Village of Arlington Heights can adapt its sustainability practices to meet the challenges of the future. Building on the cooperation used to develop the plan will ensure accomplishments set a new standard for sustainability planning and implementation.

Welcome to
Arlington Heights

GLOSSARY OF ACRONYMS

APWA	American Public Works Association
CMAP	Chicago Metropolitan Agency for Planning
EECBG	Energy Efficiency and Conservation Block Grant
EECS	Energy Efficiency Conservation Strategy
EPA	US Environmental Protection Agency
EUTV	Electric Utility Task Vehicle
GHG	Greenhouse gas
GRC2	Greenest Region Compact 2
MMC	Metropolitan Mayors Caucus
MSA	Metropolitan Statistical Area
MWRDGC	Metropolitan Water Reclamation District of Greater Chicago
NCS	National Community Survey
PCAP	Priority Climate Action Plan
TOD	Transit Oriented Development

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