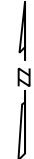
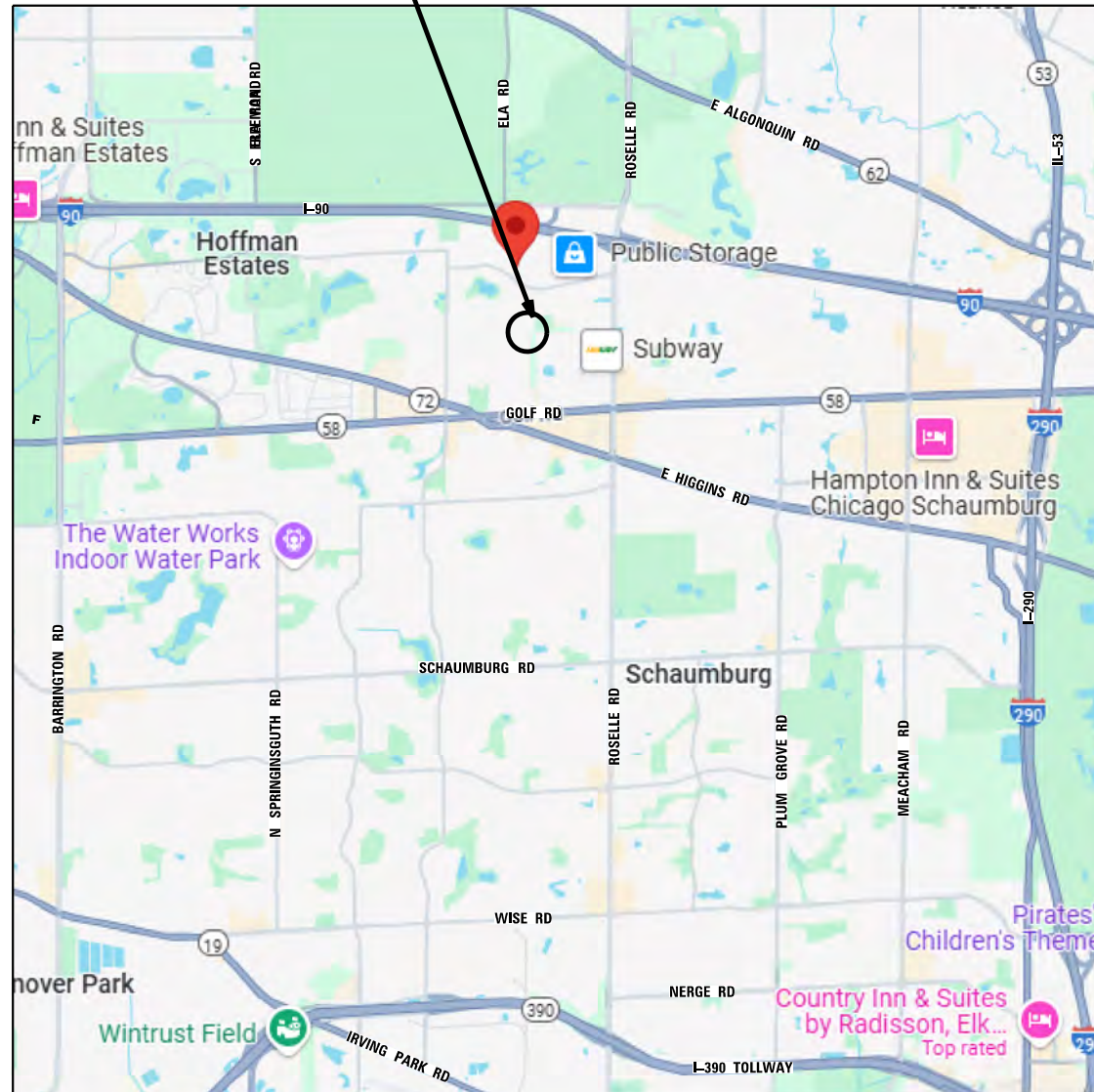


# HAMPTON LIFT STATION IMPROVEMENTS

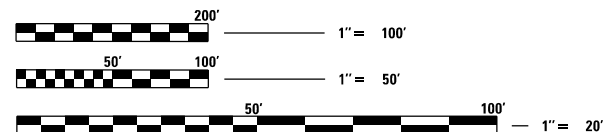
## VILLAGE OF HOFFMAN ESTATES

PROJECT LOCATION  
HAMPTON LIFT STATION  
1869 HAMPTON ROAD



### INDEX OF SHEETS

1	Cover Sheet	22	Pump Operation and Control Details
2	General Notes and Legend	23	Erosion Control and Restoration Plan
3	MWRD General Notes	24	Electrical Abbreviations, Symbols and Notes
4	Summary of Quantities	25	Conduit and Cable Plan
5	Ties, Control Points, and Benchmarks	26	Electrical Details
6	Soil Boring	27	Electrical Details
7	Existing Conditions and Demolition Plan (1 of 2)	28	Electrical Details
8	Existing Conditions and Demolition Plan (2 of 2)	29	Generator Details (1 of 2)
9	Maintenance of Traffic Plan	30	Generator Details (2 of 2)
10	Sign Legend	31	General Details
11	Proposed Utility Plan	32	General Details
12	Section A-A Utility Plan and Profile	33	General Details
13	Section B-B Utility Plan and Profile	34	General Details
14	Section B-B Utility Plan and Profile	35	General Details
15	Proposed Storm Sewer Plan and Profile	36	General Details
16	By-pass and Sequence of Work Plan	37	IDOT Details
17	Proposed Lift Station Plan	38	IDOT Details
18	Enlarged Lift Station Plan	39	IDOT Details
19	Enlarged Lift Station Plan	40	IDOT Details
20	Forcemain Profile	41	Erosion Control Notes and Details
21	Forcemain Profile	42	Record Drawing – Existing Lift Station Plan



**CONTACT INFORMATION**  
J.U.L.I.E.  
Village of Hoffman Estates  
Public Works 847.490.6800  
Police 847.781.2800  
Fire 847.843.4825  
Emergency 911

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

Contact the Metropolitan Water Reclamation District of Greater Chicago 2 days before starting work.

P (708) 588-4055  
E WMOJobStart@mwrdd.org



*Katrina Lopez*

DATE: 5/7/2026  
SEAL EXPIRES: 11/30/27

**FOR BID**



8725 W. Higgins Road, Suite 600, Chicago, IL 60631 | 773.775.4009 | www.ciorba.com

DESIGN FIRM REGISTRATION NUMBER: 184-001016

**HAMPTON LIFT STATION IMPROVEMENTS**

MAY 8, 2026

SHEET 1 OF 42

## LIFT STATION GENERAL NOTES:

- THE CONTRACTOR SHALL NOTIFY J.U.L.L.E (DIAL 1-800-892-0123) 48 HOURS PRIOR TO ANY EXCAVATION WORK TO DETERMINE THE LOCATIONS OF EXISTING UTILITIES.
- COOK COUNTY IS NOT A MEMBER OF JULIE (JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS), FOR LOCATION INFORMATION ON COOK COUNTY TRAFFIC SIGNAL EQUIPMENT, TRAFFIC SIGNAL INTERCONNECT EQUIPMENT, FLASHING BEACONS EQUIPMENT, LIGHTING EQUIPMENT, ETC., THE MECHANICAL, ELECTRICAL, ARCHITECTURAL AND LANDSCAPING (MELA) DIVISION AT 312-603-1734 SHALL BE CONTACTED.
- THE VILLAGE OF HOFFMAN ESTATES, AND THEIR DESIGNATED AGENTS SHALL BE NOTIFIED BY THE CONTRACTOR 48 HOURS PRIOR TO STARTING CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE A MINIMUM OF 48 HOURS ADVANCE NOTIFICATION OF EACH PHASE OF PERMIT RELATED WORK TO MWRDGC (SEE THIS SHEET FOR PROJECT CONTACT).
- THE ENGINEER PLEDGES THE DESIGN, RECOMMENDATIONS, AND SPECIFICATIONS TO HAVE BEEN PREPARED IN ACCORDANCE WITH CONDITIONS GENERALLY ENCOUNTERED IN THE INDUSTRY. THE DESIGN ENGINEER ASSUMES NO RESPONSIBILITY WITH RESPECT TO THE DESIGN RECOMMENDATIONS AND SPECIFICATIONS FOR COMPLEX OR UNUSUAL SOIL CONDITIONS ENCOUNTERED ON THE PROJECT. IT SHALL BE THE BIDDERS' RESPONSIBILITY TO ASCERTAIN THE EXACT NATURE OF SUBSURFACE CONDITIONS PRIOR TO THE CONSTRUCTION OF THE IMPROVEMENTS.
- BEFORE BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE LINE AND GRADES SHOWN ON THE CONTRACT DRAWINGS. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONTRACT DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE OWNER FOR WRITTEN DIRECTION PRIOR TO PROCEEDING WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF WORK REQUIRED.
- ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING SPECIFICATIONS, WHICH ARE HEREBY MADE A PART HEREOF:
  - "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS", LATEST EDITION.
  - "STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS", LATEST EDITION.
  - OWNER AND CURRENT MUNICIPAL CODES.
  - NATIONAL ELECTRIC CODE.
  - CONSTRUCTION SPECIFICATION INSTITUTE (CSI)
  - COMED
 WHERE CONTRADICTIONS OCCUR BETWEEN THE ABOVE LISTED SPECIFICATIONS, CODES AND/OR CONTRACT DOCUMENTS, THE MORE STRINGENT SHALL APPLY.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALL MATERIAL QUANTITIES AND APPRAISE HIMSELF OF ALL CONDITIONS. THE CONTRACT PRICE SUBMITTED BY THE CONTRACTOR SHALL BE CONSIDERED AS THE TOTAL COST FOR THE COMPLETE PROJECT. NO CLAIMS FOR EXTRA WORK WILL BE RECOGNIZED DUE TO THE CONTRACTOR'S FAILURE TO UNDERSTAND THE SCOPE OF WORK.
- THE CONTRACTOR, AT HIS EXPENSE, SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND BONDS FOR CONSTRUCTION ALONG OR ACROSS EXISTING ROADWAYS WITHIN THE PROJECT SITE. THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR PROPER BRACING, SHORING, OR OTHER PROTECTION REQUIRED, INCLUDING INSTALLATION AND MAINTENANCE OF ADEQUATE TRAFFIC CONTROL AND PROTECTION BEFORE CONSTRUCTION BEGINS. ALL WORK CONDUCTED SHALL BE PROTECTED IN ACCORDANCE WITH APPLICABLE PORTIONS OF THE LATEST EDITION OF THE "ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (IL STANDARD SPECIFICATIONS), SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, AND THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD).
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ABIDE BY, ADHERE TO, AND PERFORM ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS, SPECIFICATIONS, STANDARDS, PRACTICES, POLICIES, AND CODES OF THE OWNER WHICH INCLUDES, BUT IS NOT LIMITED TO, LABOR, MATERIALS, PROCEDURES, AND SAFETY.
- THE CONTRACTOR IS RESPONSIBLE FOR HAVING THE MOST RECENT SET OF APPROVED FINAL ENGINEERING PLANS WITH THE LATEST REVISION DATE ON THE JOB SITE PRIOR TO THE START OF CONSTRUCTION.
- ANY CHANGES, REVISIONS, OR SUBSTITUTIONS TO THE PLANS, SPECIFICATIONS, MATERIALS, REQUIREMENTS, OR WORK SHALL BE SUBMITTED TO THE OWNER, IN WRITING, WITH WRITTEN APPROVAL BY THE OWNER RECEIVED PRIOR TO BEGINNING SAID WORK. ALL MATERIALS AND CONSTRUCTION WHETHER IMPLICITLY OR EXPLICITLY STATED OR COVERED WITHIN THE REQUIREMENTS, CODES OR SPECIFICATIONS, SHALL BE APPROVED BY THE OWNER, PRIOR TO COMMENCING THE INSTALLATION AND CONSTRUCTION.
- NO EXTRA WORK OF ANY NATURE SHALL BE UNDERTAKEN WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE OWNER, OWNER'S REPRESENTATIVE OR ENGINEER.
- DO NOT SCALE DRAWINGS FOR CONSTRUCTION DIMENSIONS.

## CONSTRUCTION NOTES:

- CONTRACTOR SHALL SUBMIT A MAINTENANCE AND PROTECTION OF TRAFFIC CONTROL PLAN AND RECEIVE APPROVAL FROM THE ENGINEER PRIOR TO BEGINNING ANY WORK. THE PLAN SHALL INCLUDE TEMPORARY TRAFFIC CONTROL MEASURES INCLUDING TRAFFIC FLOW, PARKING, AND ACCESS, AND INCLUDE ANY DETOURS, SIGNAGE, BARRIERS, COORDINATION, MAINTENANCE OF THE PLAN, AND ANY WORK NECESSARY TO LIMIT DISRUPTION OF ADJACENT PROPERTIES. ALL COST ASSOCIATED WITH TRAFFIC CONTROL SHALL BE INCLUDED IN THE COST OF THE VARIOUS ITEMS OF WORK BID.
- ACCESS SHALL BE PROVIDED FOR VILLAGE PERSONNEL TO ENTER PROJECT SITE AND TAKE ACTION IN EMERGENCY OR VIOLATION SITUATIONS.
- IF SITE SECURITY FENCING IS REQUIRED. A SITE PLAN SHALL BE SUBMITTED THAT SHOWS THE PROPOSED LOCATION OF THE SECURITY FENCING TO BE PROVIDED DURING CONSTRUCTION. FENCING SHALL BE CONSTRUCTED OF SIX-FOOT HIGH CHAIN LINK FENCING LOCATED AT THE LIMITS OF CONSTRUCTION AND SWING GATE ENTRANCE CLEARLY IDENTIFIED.
- THE FENCING SHALL BE GATED AND THE GATE LOCKED WITH A SHARED LOCK AT THE END OF EVERY WORKDAY OR WHEN NO RESPONSIBLE PERSONS ARE ON SITE. FAILURE TO LOCK THE FENCE WILL RESULT IN THE PAYMENT OF \$100 LOCKING SERVICE FEE TO REMOVE THE VILLAGE'S LOCK.
- A PLAN SHALL BE SUBMITTED WHICH INDICATES THE PROPOSED LOCATIONS OF THE DUMPSTER AND PORTABLE TOILET, IF REQUIRED. ALL DUMPSTERS SHALL BE COVERED AND ENCLOSED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE RESTORATION OF ALL OFF-SITE AREAS DISTURBED IN CONJUNCTION WITH CONSTRUCTION ACTIVITY. LANDSCAPE AREAS SHALL BE FINE GRADED AND SEEDED UNLESS OTHERWISE SPECIFIED ON THE PLANS. ALL EXCESS TRENCH MATERIAL IS TO BE REMOVED FROM THE SITE. THE COST OF SAID REPLACEMENT AND REMOVAL SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- SIDEWALKS, PARKING LOTS, AND OTHER PUBLIC AND PRIVATE PROPERTY SHALL BE KEPT SAFE AND FREE FROM MUD, DIRT, DEBRIS, AND SWEEP DAILY.
- THE ENGINEER WILL NOT BE RESPONSIBLE FOR CONTRACTORS' MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES OF CONSTRUCTION, OR THE SAFETY, PRECAUTIONS, AND PROGRAMS INCIDENT THERETO. THE ENGINEER WILL NOT BE RESPONSIBLE FOR CONTRACTORS' FAILURE TO PERFORM OR FURNISH THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE VILLAGE'S AND ENGINEER'S REVIEW OF SUBMITTALS DOES NOT RELIEVE THE CONTRACTOR OF HIS OR HER RESPONSIBILITY.

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF SIGNAGE AND WARNING DEVICES TO INFORM AND PROTECT THE PUBLIC. SIGNAGE REQUIREMENTS AS DETAILED IN THE STANDARD SPECIFICATIONS AND BASED ON THE FUNDING SOURCE SHALL APPLY. APPROPRIATE CONTROL METHODS SHALL BE APPLIED TO THE SPECIFIC SITUATIONS AND TYPES OF CONSTRUCTION OPERATIONS BEING PERFORMED.
- THE CONTRACTOR SHALL RESTORE PAVED SURFACES TO THE ORIGINAL PRE-CONSTRUCTION CONDITION IF DAMAGED BY CONSTRUCTION. ANY EXISTING CURB, PAVEMENT, OR SIDEWALK DISTURBED DURING THE CONSTRUCTION PROCESS IS TO BE REPLACED.
- THE CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES AND STORAGE OF EQUIPMENT OR MATERIALS TO THE DESIGNATED OR APPROVED WORK CONSTRUCTION LIMITS. ANY DAMAGE TO PRIVATE PROPERTY SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.
- LIMITS OF CONSTRUCTION SHALL BE SUBJECT TO OWNER'S APPROVAL AND SHALL NOT IMPACT EXISTING ROADWAY PAVEMENT EXCEPT WHERE IMPROVEMENTS ARE SHOWN BY DRAWINGS. LIMITS OF CONSTRUCTION (OTHER THAN ACROSS ROADWAY PAVEMENT) SHALL BE FENCED OFF IN ACCORDANCE WITH SECTION 015000 OF THE SPECIFICATIONS.

## UTILITY NOTES:

- CERTAIN INFORMATION SHOWN ON THESE DRAWINGS HAVE BEEN OBTAINED FROM DRAWINGS OF RECORD AND AVAILABLE UTILITY ATLAS INFORMATION. CONTRACTOR SHALL VERIFY SUCH INFORMATION PRIOR TO ACTUAL START OF WORK. WHERE DISCREPANCIES ARE DISCOVERED THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE VILLAGE'S REPRESENTATIVE, FAILURE BY THE CONTRACTOR TO IMMEDIATELY NOTIFY THE VILLAGE'S REPRESENTATIVE OF SUCH DISCREPANCIES SHALL RESULT IN THE CONTRACTOR BEARING THE FULL BURDEN OF ALL RISKS/COSTS ATTRIBUTED TO THE DISCOVERED DISCREPANCY.
- EASEMENTS FOR THE EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE, AND UTILITIES WITHIN PUBLIC RIGHT-OF-WAYS ARE SHOWN ON THE DRAWINGS ACCORDING TO AVAILABLE RECORDS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION IN THE FIELD OF THESE UTILITY LINES AND THEIR PROTECTION FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS.
- THE EXISTING BURIED UTILITY LINES, PUBLIC AND PRIVATE, SHOWN IN THE PROFILES ARE BASED ON THE DRAWINGS ACCORDING TO INFORMATION AVAILABLE FROM RECORDS, THE LOCATION AND DEPTH OF EXISTING BURIED UTILITY LINES SHOWN ON THE DRAWINGS IS THEREFORE APPROXIMATE AND MAY VARY FROM FIELD CONDITIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION AND DEPTH OF BURIED UTILITY LINES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES TO MARK THE LOCATION OF BURIED UTILITIES IN THE FIELD BEFORE BEGINNING EXCAVATION, LOCATING AND PROTECTING ALL UTILITIES LOCATED WITHIN THE PROJECT LIMITS, FOR THE PROTECTION OF ALL UTILITY LINES AND SHALL REPAIR ANY UTILITY LINES HE DAMAGES AT HIS OWN EXPENSE.
- BEFORE INSTALLING ANY BURIED PIPE, THE CONTRACTOR SHALL CAREFULLY UNCOVER ALL EXISTING BURIED UTILITY LINES WHICH CROSS PROPOSED UTILITIES, STRUCTURES, OR CONCRETE PADS SO THAT HE/SHE CAN DETERMINE THE EXACT LOCATION AND DEPTH. IF EXISTING BURIED UTILITY LINES ARE ENCOUNTERED THAT CONFLICT WITH CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE VILLAGE'S REPRESENTATIVE SO THAT THE CONFLICT MAY BE RESOLVED.
- ALL TRENCHES CAUSED BY THE CONSTRUCTION OF SEWERS, FORCEMANS, WATERMAIN, WATER SERVICE PIPES, AND ALL EXCAVATIONS AROUND CATCH BASINS, MANHOLES, INLETS, AND OTHER APPURTENANCES WHICH OCCUR WITHIN TWO FEET OF THE LIMITS OF EXISTING AND PROPOSED PAVEMENTS, SIDEWALKS, AND CURB AND GUTTERS, SHALL BE BACKFILLED WITH TRENCH BACKFILL MEETING THE REQUIREMENTS OF ARTICLE 208.02 OF IDOT STANDARD SPECIFICATIONS AND COMPACTED PROPERLY. ANY DEPRESSIONS IN PAVEMENT AREAS THAT WERE REPLACED SHALL BE REMOVED AND CONSTRUCTED PROPERLY AT THE CONTRACTOR'S EXPENSE IN ACCORDANCE WITH THE APPROPRIATE STANDARD.
- NO HOLES SHALL BE LEFT OPEN IN THE PAVEMENT OR PARKWAY OVER A HOLIDAY, WEEKEND, OR AFTER COMPLETION OF THE DAY'S ACTIVITIES. CONTRACTOR SHALL COVER HOLES WITH STEEL PLATE OR FILL WITH AGGREGATE AS DIRECTED BY THE VILLAGE OR ENGINEER. THE COST OF THIS WORK SHALL BE INCIDENTAL TO THE WORK IN WHICH IT PERTAINS.
- THE DESIGN OF PROPOSED LIFT STATION AND FORCEMAIN AND THE LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES ARE CONCEPTUAL IN NATURE AND ARE BASED ON INTERPRETATION OF INFORMATION RECEIVED.
- PROPOSED EQUIPMENT, CONDUITS, ETC. ARE SHOWN DIAGRAMMATICALLY. THE CONTRACTOR SHALL COORDINATE EXACT EQUIPMENT SIZES, LOCATIONS, ROUTING, ETC. WITH CONSTRUCTION ACTIVITIES, OTHER SUBCONTRACTORS AND THE ENGINEER.

## STRUCTURAL NOTES:

- ALL EXPOSED CONCRETE EDGES SHALL HAVE A 3/4" X 45° CHAMFER, EXCEPT WHERE SHOWN OTHERWISE. CHAMFER ON VERTICAL EDGES SHALL BE CONTINUED A MINIMUM OF ONE FOOT BELOW FINISHED GROUND LEVEL.

### DESIGN SPECIFICATIONS:

- ILLINOIS TOLLWAY STRUCTURE DESIGN MANUAL ISSUED MARCH, 2023.
- INTERNATIONAL BUILDING CODE, 2021.
- ASCE 7-16 MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES, 2017.
- ACI 318-19 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, 2022.
- ILLINOIS DEPARTMENT OF TRANSPORTATION BRIDGE MANUAL, JANUARY 2023.
- ILLINOIS TOLLWAY GEOTECHNICAL ENGINEER MANUAL DATED MARCH 2022.

### REINFORCEMENT BARS:

- REINFORCEMENT BARS, INCLUDING REINFORCEMENT BARS, EPOXY-COATED SHALL CONFORM TO THE REQUIREMENTS OF IDOT STANDARD SPECIFICATIONS SECTION 508 AND ARTICLE 1006.10
- REINFORCEMENT BARS DESIGNATED "(E)" SHALL BE EPOXY-COATED.
- REINFORCEMENT BENDING DETAILS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 315, "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES".
- REINFORCEMENT BAR BENDING DIMENSIONS ARE OUT-TO-OUT.
- COVER FROM THE FACE OF CONCRETE TO FACE OF REINFORCEMENT BARS SHALL BE 3" FOR SURFACES FORMED AGAINST EARTH AND 2" FOR ALL OTHER SURFACES UNLESS OTHERWISE SHOWN

### REQUIRED BEARING CAPACITY:

Qu ≥ 2000 P.S.F.

### DESIGN STRESSES FOR REINFORCED CONCRETE:

f'c = COMPRESSIVE STRENGTH OF CONCRETE (CLASS S1) = 3,500 P.S.I.  
fy = YIELD STRENGTH OF REINFORCEMENT BARS (GRADE 60) = 60,000 P.S.I.

LEGEND:			
EXISTING			
	RIGHT-OF-WAY		FIRE HYDRANT
	EASEMENT		B-BOX
	CENTERLINE		POWER POLE, TELEPHONE POLE
	FENCE		LIGHT POLE
	TELEPHONE LINE		MANHOLE, CATCH BASIN, VALVE VAULT
	GAS MAIN		INLET
	WATER MAIN		JUNCTION BOX
	ELECTRIC LINE		HANDHOLE
	COMBINED SEWER		BUSH
	SANITARY SEWER		TREE
	STORM SEWER		FENCE POST
	FORCEMAIN		SIGN (S)
PROPOSED			
	CONSTRUCTION LIMITS		LINE STOP
	RIGHT-OF-WAY		MANHOLE
	FENCE		VALVE VAULT
	TEMPORARY FENCE		B-BOX
	SILT FENCE		FIRE HYDRANT
	SANITARY SEWER		TREE REMOVAL
	STORM SEWER		INLET FILTER
	WATER MAIN		
	FORCEMAIN		
	ABANDON UTILITY		

## STRUCTURE EXCAVATION NOTES:

- EARTH RETENTION SYSTEMS INSTALLED ON THE PROJECT SITE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- DETAIL DRAWINGS AND CALCULATIONS FOR THE EARTH RETENTION SYSTEMS SHALL BE SUBMITTED TO THE VILLAGE AND ENGINEER FOR REVIEW PRIOR TO BEGINNING CONSTRUCTION. THE SUBMITTAL SHALL BE SIGNED AND SEALED BY AN ILLINOIS REGISTERED STRUCTURAL ENGINEER. DETAIL DRAWINGS SHALL INCLUDE THE LIMITS, DEPTH, AND CROSS SECTION OF THE PROPOSED EARTH RETENTION SYSTEM. THE SUBMITTAL SHALL INCLUDE DETAILS OF EXCAVATION, SHEETING, SHORING, BRACING, STRUCTURAL CONNECTIONS, DEWATERING, BYPASS PUMPING, UTILITY PROTECTION, AND EROSION CONTROL MEASURE THAT ARE REQUIRED TO PERFORM EXCAVATION AND INSTALL EARTH RETENTION SYSTEM.
- A TRENCH BOX SHALL BE AVAILABLE ON SITE AT ALL TIMES, AND BE USED IN ACCORDANCE WITH OSHA STANDARDS.
- THE SEQUENCE OF WORK SCHEDULE SHALL INCLUDE NARRATIVE, DIAGRAMS/SKETCHES, AND SCHEDULE DESCRIBE THE SEQUENCE OF WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANALYZING AND UNDERSTANDING THE SOIL AND GROUNDWATER CONDITIONS AT THE SITE. ANY AND ALL DEWATERING REQUIRED TO KEEP EXCAVATIONS DRY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, INCLUDING BRACING AND SHORING THE EXCAVATED WALLS FOR DEWATERING OPERATION. ALL SPOILS SHALL BE PROMPTLY REMOVED FROM SITE.

## CLEAN CONSTRUCTION OR DEMOLITION DEBRIS (CCDD):

- THE VILLAGE WILL PERFORM CCDD TESTING AND FORM COMPLETION FOR THE PROJECT DURING CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH THE ENGINEER.

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**VILLAGE OF HOFFMAN ESTATES**  
**1900 HASSELL ROAD**  
**HOFFMAN ESTATES, IL 60169**

GENERAL NOTES AND LEGEND				RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
						COOK	42	2
				CONTRACT NO.				
SCALE: N.T.S.	SHEET 1 OF 1 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT				

**A. REFERENCED SPECIFICATIONS**

- 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 \_\_\_\_\_ 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**

- 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](mailto:WMOJOBSTART@MWRD.ORG)).
- THE VILLAGE OF \_\_\_\_\_ 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.
- 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**

- ALL ELEVATIONS SHOWN ON PLANS REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). CONVERSION FACTOR IS \_\_\_\_\_ FT.
- MWRD, THE MUNICIPALITY AND THE OWNER OR OWNER'S REPRESENTATIVE SHALL HAVE THE AUTHORITY TO INSPECT, APPROVE, AND REJECT THE CONSTRUCTION IMPROVEMENTS.
- 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.
- 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.
- 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.
- 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.
- MATERIAL AND COMPACTION TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MUNICIPALITY, MWRD, AND OWNER.
- THE UNDERGROUND CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS TO NOTIFY ALL INSPECTION AGENCIES.
- ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS DISTURBED DURING CONSTRUCTION SHALL BE ADJUSTED TO FINISH GRADE PRIOR TO FINAL INSPECTION.
- 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**

- THE CONTRACTOR SHALL TAKE MEASURES TO PREVENT ANY POLLUTED WATER, SUCH AS GROUND AND SURFACE WATER, FROM ENTERING THE EXISTING SANITARY SEWERS.
- 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.
- 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.
- ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS (LATEST EDITION).
- ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER SYSTEM.
- ALL DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE TO THE STORM SEWER SYSTEM.
- 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-3261, F-2620 (HEAT FUSION)
	ASTM D-3035	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

- ALL SANITARY SEWER CONSTRUCTION (AND STORM SEWER CONSTRUCTION IN COMBINED SEWER AREAS), REQUIRES STONE BEDDING WITH STONE 1/4" TO 1" IN SIZE, WITH MINIMUM 4 BEDDING THICKNESS EQUAL TO 1/4 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.
- NON-SHEAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPES OF DISSIMILAR PIPE MATERIALS.
- 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.
- 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 CIRCULAR SAW-CUT OF SEWER MAIN BY PROPER TOOLS ("SHEWER-TAP" MACHINE OR SIMILAR) AND PROPER INSTALLATION OF HUBWYE SADDLE OR HUB-TEE SADDLE.
  - REMOVE AN ENTIRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH SECTION.
  - 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.
- 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 WATERMANS 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.
- ALL EXISTING SEPTIC SYSTEMS SHALL BE ABANDONED. ABANDONED TANKS SHALL BE FILLED WITH GRANULAR MATERIAL OR REMOVED.
- 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.
- 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.
- ALL ABANDONED SANITARY SEWERS SHALL BE PLUGGED AT BOTH ENDS WITH AT LEAST 2 FEET LONG NON-SHRINK CONCRETE OR MORTAR PLUG.
- 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.
- 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**

- THE CONTRACTOR SHALL INSTALL THE EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
- EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE FUNCTIONAL PRIOR TO HYDROLOGIC DISTURBANCE OF THE SITE.
- ALL DESIGN CRITERIA, SPECIFICATIONS, AND INSTALLATION OF EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL.
- A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- INSPECTIONS AND DOCUMENTATION SHALL BE PERFORMED, AT A MINIMUM:
  - UPON COMPLETION OF INITIAL EROSION AND SEDIMENT CONTROL MEASURES, PRIOR TO ANY SOIL DISTURBANCE.
  - 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.
- 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.
- 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.
- 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.
- MORTAR WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ADDITION TO CONCRETE WASHOUT FACILITIES FOR ANY BRICK AND MORTAR BUILDING ENVELOPE CONSTRUCTION ACTIVITIES.
- 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.
- 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.
- ALL FLOOD PROTECTION AREAS AND VOLUME CONTROL FACILITIES SHALL, AT A MINIMUM, BE PROTECTED WITH A DOUBLE-ROW OF SILT FENCE (OR EQUIVALENT).
- VOLUME CONTROL FACILITIES SHALL NOT BE CONSTRUCTED UNTIL ALL OF THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.
- 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.
- EARTHEN EMBANKMENT SIDE SLOPES SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL BLANKET.
- STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY APPROPRIATE SEDIMENT CONTROL MEASURES.
- 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.
- 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.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRENCH DEWATERING AND EXCAVATION FOR THE INSTALLATION OF SANITARY SEWERS, STORM SEWERS, WATERMANS 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.
- ALL PERMANENT EROSION CONTROL PRACTICES SHALL BE INITIATED WITHIN SEVEN (7) DAYS FOLLOWING THE COMPLETION OF SOIL DISTURBING ACTIVITIES.
- 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.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER PERMANENT SITE STABILIZATION.
- 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.

TECHNICAL GUIDANCE MANUAL

MWRD GENERAL NOTES

10/13/2022

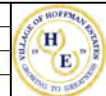
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**VILLAGE OF HOFFMAN ESTATES**  
**1900 HASSELL ROAD**  
**HOFFMAN ESTATES, IL 60169**

SCALE: N.T.S.		SHEET 1 OF 1 SHEETS		STA. TO STA.	
MWRD GENERAL NOTES		RTE.	SECTION	COUNTY	TOTAL SHEETS
				COOK	42
				SHEET NO. 3	
				CONTRACT NO.	
		ILLINOIS	FED. AID PROJECT		

ITEM NO.	ITEM DESCRIPTION	UNITS	TOTAL	LIFT STATION SUBTOTAL	DRAINAGE SUBTOTAL
01 33 00-01	VIDEO DOCUMENTATION OF EXISTING CONDITIONS	LSUM	1	1	0
01 50 00-01	TEMPORARY FACILITIES AND CONTROLS	LSUM	1	1	0
01 50 00-02	TEMPORARY CONSTRUCTION FENCING	LSUM	1	1	0
01 55 26-01	TRAFFIC CONTROL AND PROTECTION	LSUM	1	1	0
01 71 13-01	MOBILIZATION AND DEMOBILIZATION	LSUM	1	1	0
01 71 20	CONSTRUCTION LAYOUT	LSUM	1	1	0
02 41 00-01	DEMOLITION	LSUM	1	1	0
03 00 00-01	CONCRETE EQUIPMENT PAD	SQ FT	350	350	0
03 40 00-01	WET WELL	LSUM	1	1	0
03 40 00-02	VALVE VAULT	LSUM	1	1	0
03 40 00-03	GENERATOR PAD	LSUM	1	1	0
26 05 19	LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES	LSUM	1	1	0
26 05 23	CONTROL-VOLTAGE ELECTRICAL POWER CABLES	LSUM	1	1	0
26 05 26	GROUNDING SYSTEM	LSUM	1	1	0
26 05 33	RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS	LSUM	1	1	0
26 27 16	VENTED CABLE JUNCTION BOX	EACH	1	1	0
26 29 20	PUMP CONTROLLER ENCLOSURE	LSUM	1	1	0
26 32 13	ENGINE GENERATOR	LSUM	1	1	0
26 36 00	AUTOMATIC TRANSFER SWITCH	EACH	1	1	0
26 42 00	CATHODIC PROTECTION	LSUM	1	1	0
26 60 20-01	ELECTRIC SERVICE	LSUM	1	1	0
26 60 20-02	ELECTRIC SERVICE UTILITY FEE	UNIT	1	1	0
27 51 25	SCADA SYSTEM	UNIT	1	1	0
31 11 00-01	SITE CLEARING	LSUM	1	1	0
31 11 00-02	TREE REMOVAL (OVER 15 UNITS DIA)	UNIT	95	95	0
31 11 00-03	TREE TRUNK PROTECTION	LSUM	1	1	0
31 20 00	EARTH EXCAVATION	LSUM	1	1	0
31 23 19	DEWATERING	LSUM	1	1	0
31 25 15-01	EROSION CONTROL FENCE	FOOT	109	109	0
31 25 15-02	INLET PROTECTION	EACH	8	8	0
31 25 15-03	DEWATERING FILTER PAD	LSUM	1	1	0
31 25 15-04	BMP MAINTENANCE	LSUM	1	1	0
31 25 15-05	CONCRETE WASHOUT	LSUM	1	1	0
31 25 15-06	TEMPORARY EROSION CONTROL SEEDING	POUND	20	20	0
31 25 15-07	TEMPORARY EROSION CONTROL BLANKET	SQ YD	946	946	0
31 41 00-01	EARTH RETENTION SYSTEM	LSUM	1	1	0
33 11 00-01	DIP PUMP DISCHARGE PIPING AND FITTINGS	LSUM	1	1	0
33 11 00-02	FORCEMAIN	LSUM	1	1	0
33 11 00-03	SANITARY SEWER 6"	FOOT	5	5	0
33 11 00-04	SANITARY SEWER 8"	FOOT	203	203	0
33 11 00-05	SANITARY SEWER 10"	FOOT	23	23	0
33 12 16	DISCHARGE VALVES AND FITTINGS	LSUM	1	1	0
33 42 00	SEWAGE PUMPS AND ACCESSORIES	LSUM	1	1	0
33 43 00	TEMPORARY BYPASS SYSTEM	LSUM	1	1	0
20800150	TRENCH BACKFILL	CU YD	617	368	249
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	946	946	0
25200110	SODDING, SALT TOLERANT	SQ YD	946	946	0
25200200	SUPPLEMENTAL WATERING	UNIT	2	2	0
31101100	SUBBASE GRANULAR MATERIAL, TYPE B	CU YD	82	70	12
40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	4	4	0
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	70	33	37
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	1,769	1,769	0
42400800	DETECTABLE WARNINGS	SQ FT	70	70	0
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	100	63	37
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	481	200	281
44000600	SIDEWALK REMOVAL	SQ FT	1,698	1,698	0
44201747	CLASS D PATCHES, TYPE IV, 8 INCH	SQ YD	199	134	65
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	59	0	59
550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	164	0	164
55100400	STORM SEWER REMOVAL 10"	FOOT	13	0	13
55100700	STORM SEWER REMOVAL 15"	FOOT	31	0	31
55100900	STORM SEWER REMOVAL 18"	FOOT	49	0	49
60255500	MANHOLES TO BE ADJUSTED	EACH	2	0	2
60500040	REMOVING MANHOLES	EACH	1	0	1
60500050	REMOVING CATCH BASINS	EACH	2	0	2
60500305	FILLING INLETS	EACH	1	0	1
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	100	100	0
66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1	0
Z0056612	STORM SEWER (WATER MAIN REQUIREMENTS) 18 INCH	FOOT	57	0	57
X5509900	ABANDON AND FILL EXISTING STORM SEWER	FOOT	217	0	217
X5510011	PROPOSED STORM SEWER CONNECTION TO EXISTING MANHOLE	EACH	1	0	1
X6022712	CATCH BASINS, TYPE A, 4'-DIAMETER, WITH SPECIAL FRAME AND GRATE	EACH	1	0	1
X6022810	MANHOLES, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	2	0
X6022820	MANHOLES, SANITARY, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3	3	0
X6022930	MANHOLES, TYPE A, 5'-DIAMETER, WITH SPECIAL FRAME AND GRATE	EACH	1	0	1
X6023102	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID (SPECIAL)	EACH	1	0	1
X6023508	INLETS, TYPE A, WITH SPECIAL FRAME AND GRATE	EACH	1	0	1
X6025604	PROPOSED MANHOLE/CATCH BASIN CONNECTION OVER EXISTING STORM SEWER	EACH	2	0	2
X6060079	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-3.12 (SPECIAL)	FOOT	481	200	281

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**VILLAGE OF HOFFMAN ESTATES**  
**1900 HASSELL ROAD**  
**HOFFMAN ESTATES, IL 60169**

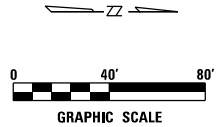
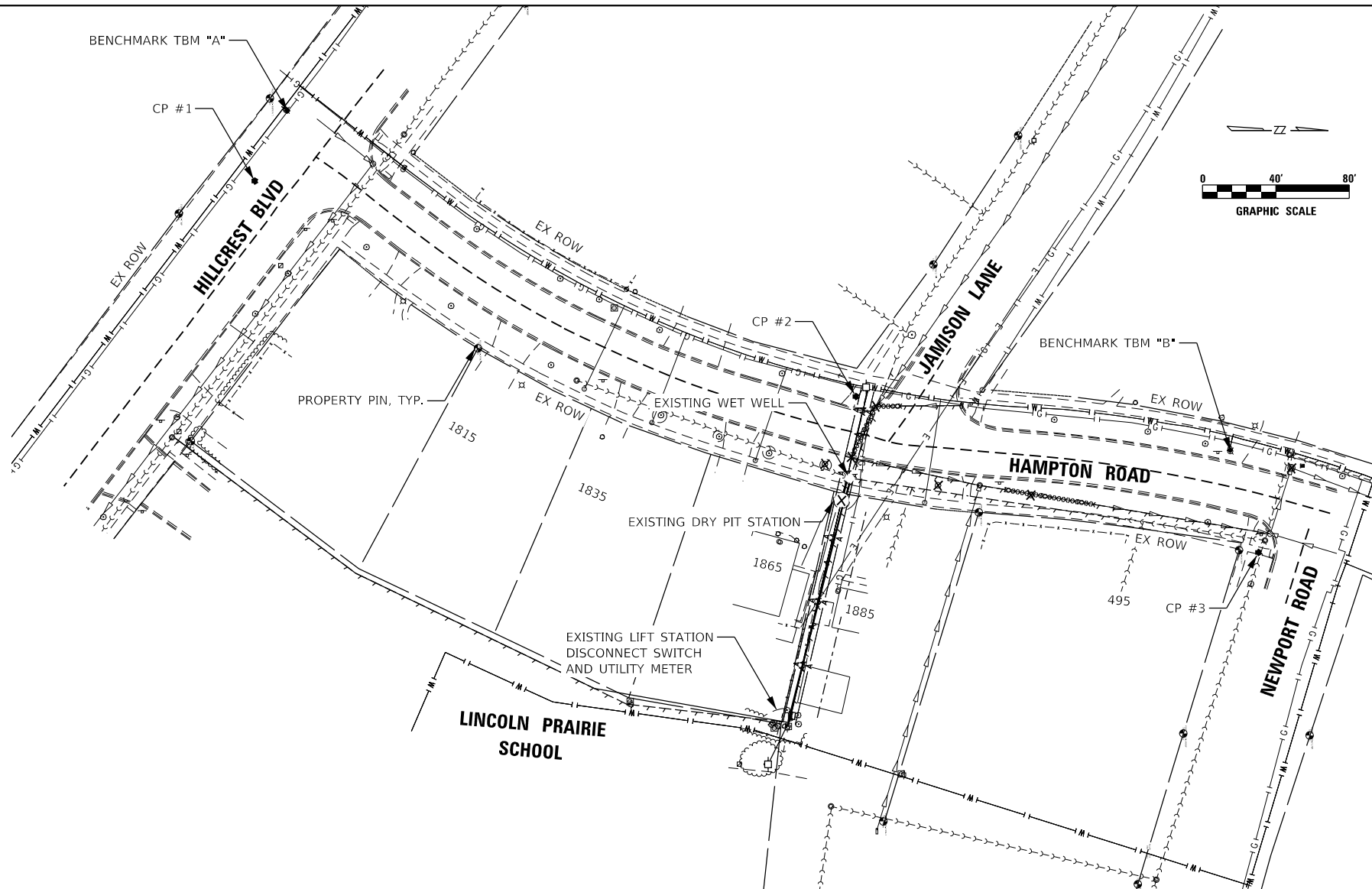
**SUMMARY OF QUANTITIES**

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		COOK	42	4
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

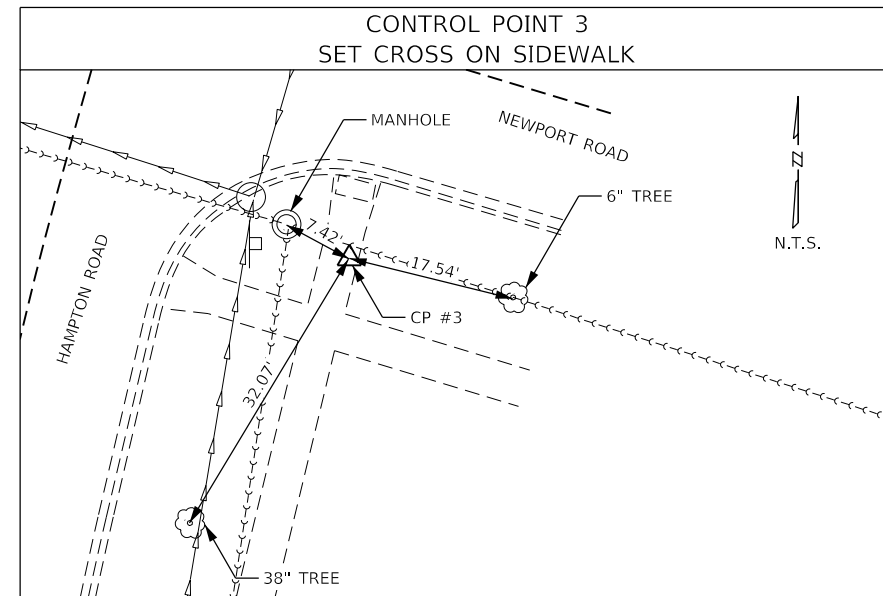
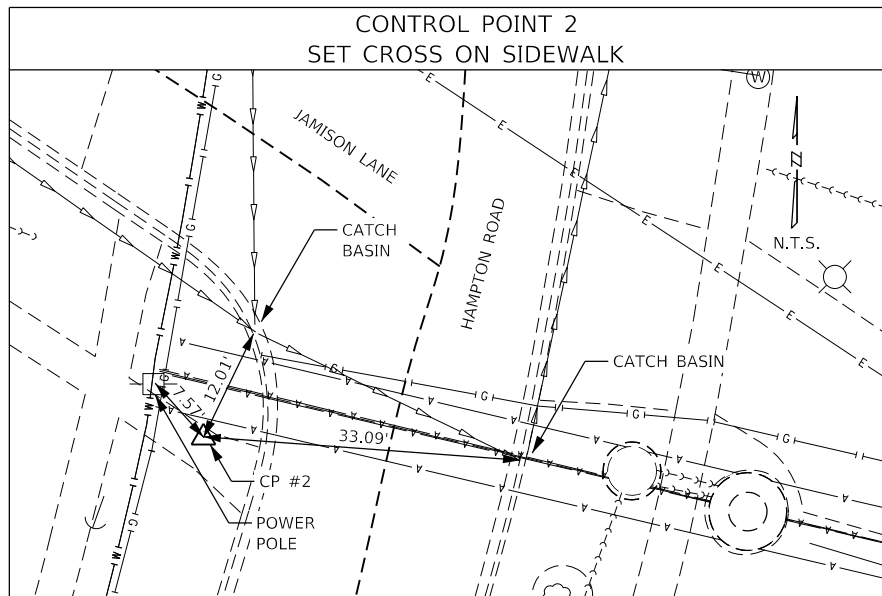
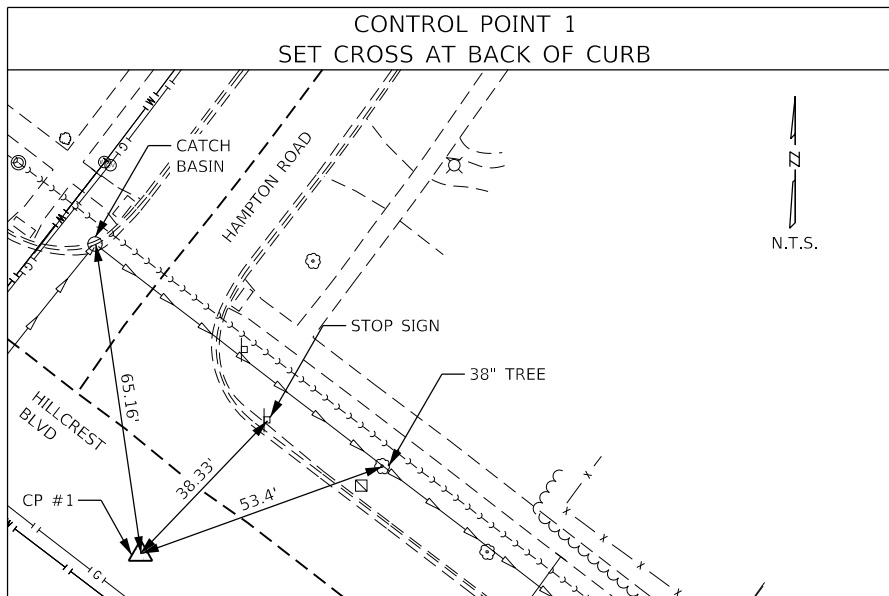
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BM	DESCRIPTION	ELEVATION
TBM "A"	TOP OF ARROW BOLT OF FIRE HYDRANT AT SOUTH WEST CORNER OF NEWPORT ROAD AND HAMPTON ROAD	778.92
TBM "B"	TOP OF NORTH EAST BOLT OF FIRE HYDRANT AT SOUTH WEST CORNER OF HILLCREST BLVD AND HAMPTON ROAD	792.30

HORIZONTAL CONTROL POINTS					
POINT	NORTHING	EASTING	DESCRIPTION	STATION	OFFSET
CP1	1964867.08	1049791.34	SET CUT CROSS	NA	NA
CP2	1965194.89	1049908.81	SET CUT CROSS	NA	NA
CP3	1965414.40	1049993.83	SET CUT CROSS	NA	NA



**NOTES:**

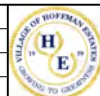
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**VILLAGE OF HOFFMAN ESTATES**  
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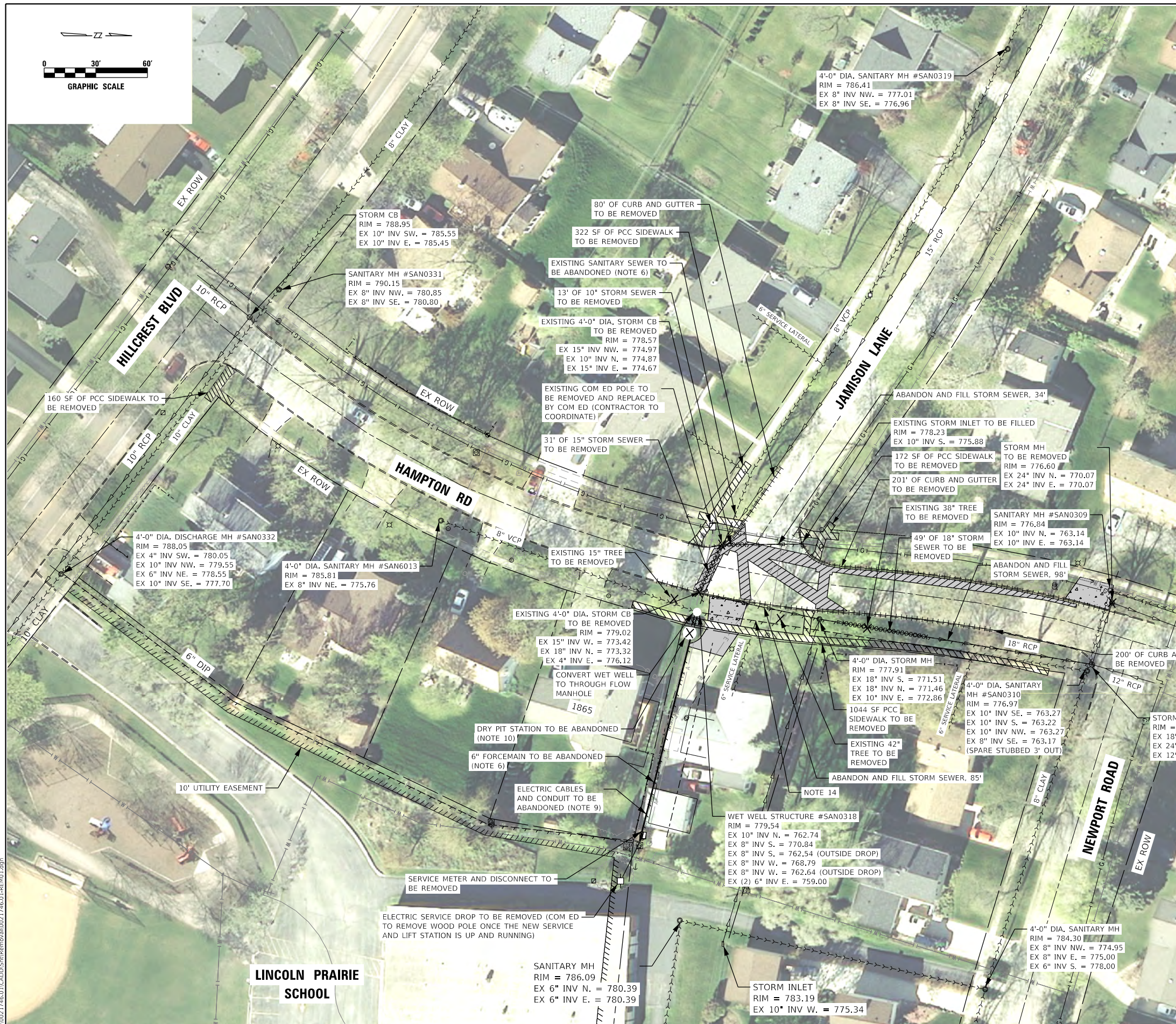
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STA.	TO STA.

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	42	5
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



### DEMOLITION AND TEMPORARY EARTH RETENTION NOTES

1. WORK OF THIS CONTRACT SHALL IN NO WAY INTERFERE WITH THE ON-GOING OPERATION OF EXISTING SANITARY LIFT STATION AND/OR EXISTING FLOW. CONTRACTOR SHALL COORDINATE STATION SHUTDOWNS WITH THE VILLAGE A MINIMUM OF THREE DAYS PRIOR TO SHUTDOWN.
2. CONTRACTOR SHALL PROVIDE PHASING PLAN FOR DEMOLITION TO THE VILLAGE FOR REVIEW.
3. CONTRACTOR TO FIELD VERIFY LOCATION(S) AND PROTECT AND MAINTAIN ALL UTILITIES WHICH ARE TO REMAIN IN SERVICE.
4. ALL ITEMS AND STRUCTURES NOT SCHEDULED TO BE DEMOLISHED SHALL BE PROTECTED AND MAINTAINED.
5. CONTRACTOR SHALL ENSURE THAT STREETS AND DRIVES ARE TO REMAIN CLEAN AND FREE OF CONSTRUCTION DEBRIS AT ALL TIMES.
6. ALL ABANDONED SANITARY SEWER PIPES SHALL BE PLUGGED AT BOTH ENDS WITH 2 FT LONG CONTROLLED LOW STRENGTH MATERIAL/NON-SHRINK CONCRETE OR WITH ALUMINUM ABANDONMENT PLUGS (PIPE TECH PL SERIES OR EQUAL).
7. ALL TRENCHES, HOLES, OR OTHER EXCAVATIONS SHALL BE PROTECTED AT THE END OF EACH WORKDAY.
8. DURING WORK OF THIS CONTRACT THE EXISTING SANITARY SEWER LIFT STATION SHALL REMAIN IN SERVICE. THE VILLAGE WILL REQUIRE ACCESS TO EXISTING STRUCTURES AND MANHOLES TO MONITOR AND RECORD OPERATION OF THE LIFT STATION DURING THE WORK OF THIS CONTRACT. CONTRACTOR SHALL MAINTAIN EXISTING LIFT STATION AND CONTROLS IN OPERATION UNTIL THE NEW STATION IS OPERATIONAL AND VILLAGE HAS ACCEPTED IT. ONLY THEN CAN THE EXISTING LIFT STATION EQUIPMENT AND ELECTRIC SERVICE BE DISCONNECTED AND REMOVED.
9. EXISTING ELECTRICAL CABLES AND CONDUIT SHALL BE CUT DOWN TO A MINIMUM OF 1'-0" BELOW GRADE, PLUGGED AND ABANDONED. CONTRACTOR MAY ELECT TO REMOVE CABLES AND SALVAGE AT NO ADDITIONAL COST TO THE VILLAGE.
10. SEE SHEET 8 FOR WET WELL AND DRY PIT STATION ABANDONMENT.
11. MANHOLES TO BE ABANDONED SHALL BE REMOVED TO 5 FEET BELOW GRADE AND FILLED WITH CONTROLLED LOW STRENGTH MATERIAL.
12. CONTRACTOR SHALL COORDINATE REMOVAL OF ELECTRIC SERVICE EQUIPMENT WITH THE VILLAGE AND HOMEOWNER OF 1865 HAMPTON ROAD.
13. CONTRACTOR SHALL PROVIDE 6 FT TALL TEMPORARY CHAIN LINK FENCING DURING CONSTRUCTION. THE FENCING SHALL BE INSTALLED PRIOR TO BEGINNING CONSTRUCTION AND REMOVED AS DIRECTED BY THE VILLAGE. THE FENCING SHALL BE PAID FOR AS TEMPORARY FENCING.
14. EXISTING 6" SANITARY SERVICE LATERAL TO BE DISCONNECTED AND RECONNECTED TO NEW SEWER. THIS WORK SHALL BE COORDINATED WITH THE VILLAGE AND OWNER. THE RESIDENT SHALL BE NOTIFIED OF SERVICE SHUTDOWNS A MINIMUM OF 72 HOURS IN ADVANCE. THE MAXIMUM OUTAGE SHALL BE 4 HOURS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING ALL IMPACTED ADA RAMP, CORNERS, AND SIDEWALKS TO MEET CURRENT STANDARDS. THE VILLAGE OF HOFFMAN ESTATES WILL ISSUE SEPARATE PLANS THAT DETAIL PROPOSED IMPROVEMENTS AND ELEVATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK WITH THE VILLAGE. THE REMOVAL AND REPLACEMENT LIMITS SHOWN ON THE PLANS ARE CONCEPTUAL AND ARE INTENDED TO SHOW THE MINIMUM IMPACTED REMOVAL AND REPLACEMENT QUANTITIES. FINAL QUANTITIES SHALL BE BASED ON THE VILLAGES PLANS.



#### DEMOLITION LEGEND

- REMOVE EXISTING EQUIPMENT AS INDICATED
- ABANDON CONDUIT (SEE NOTES 6 & 9) OR PIPE AS INDICATED
- REMOVE CURB AND GUTTER
- PAVEMENT PATCHING SEE PROPOSED UTILITY PLAN
- REMOVE ASPHALT DRIVEWAY
- REMOVE CONCRETE DRIVEWAY
- SIDEWALK REMOVAL

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WET WELL STRUCTURE #SAN0318 RIM = 779.54 EX 10" INV N. = 762.74 EX 8" INV S. = 770.84 EX 8" INV S. = 762.54 (OUTSIDE DROP) EX 8" INV W. = 768.79 EX 8" INV W. = 762.64 (OUTSIDE DROP) EX (2) 6" INV E. = 759.00
--



**VILLAGE OF HOFFMAN ESTATES**  
**1900 HASSELL ROAD**  
**HOFFMAN ESTATES, IL 60169**

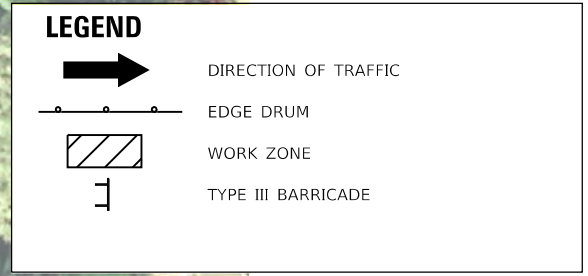
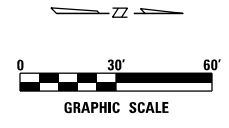
**EXISTING CONDITIONS AND DEMOLITION PLAN (1 OF 2)**  
 SCALE: 1" = 30' SHEET 1 OF 2 SHEETS STA. TO STA.

RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	42	7
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



**NOTES:**

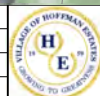
1. CONTRACTOR SHALL PLACE STEEL PLATES OVER ALL OPEN HOLES OR FILL ALL HOLES TO COMPLY WITH IDOT DROP OFF POLICY AT THE END OF EACH DAY.
2. EXISTING LIFT STATION SHALL BE ACCESSIBLE BY VILLAGE STAFF FOR MAINTENANCE AND MONITORING PURPOSES THROUGHOUT CONSTRUCTION.
3. NORTHBOUND LANE CLOSURE WILL BE ALLOWED THROUGHOUT THE DURATION OF CONSTRUCTION. SHORT TERM FULL LANE CLOSURES WILL BE ALLOWED AS APPROVED BY THE VILLAGE. ANY ADDITIONAL SIGNAGE OR FLAGGERS REQUIRED BY THE VILLAGE SHALL BE INCLUDED IN THE COST OF THE MAINTENANCE OF TRAFFIC.
4. DRIVEWAYS SHALL BE ACCESSIBLE AT ALL TIME.
5. WORKING HOURS SHALL BE BETWEEN 7:00AM TO 7:00PM MONDAY THROUGH FRIDAY AND 8:00AM TO 6:00PM ON SATURDAY AND SUNDAY. THE CONTRACTOR SHALL NOTIFY THE VILLAGE AND RESIDENTS OF ANY WORK TO BE PERFORMED ON THE WEEKEND.
6. THE CONTRACTOR WILL BE ALLOWED TO STORE MATERIAL AND EQUIPMENT AT PUBLIC WORKS. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH THE VILLAGE.
7. WHERE SIDEWALK IS CLOSED FOR DIRECTIONAL DRILLING OR CONSTRUCTION PITS, THE CONTRACTOR SHALL PROVIDE NECESSARY SIGNAGE TO ROUTE PEDESTRIANS SAFELY AROUND CONSTRUCTION ACTIVITY IN ACCORDANCE WITH STANDARD DRAWING 701801-06



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**VILLAGE OF HOFFMAN ESTATES**  
 1900 HASSELL ROAD  
 HOFFMAN ESTATES, IL 60169

**MAINTENANCE OF TRAFFIC PLAN**

SCALE: 1" = 30' SHEET 1 OF 1 SHEETS STA. TO STA.

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	42	9
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

**SIGN LEGEND**



W20-1103(0)-48

1



W20-1(0)-48

2



W21-I(0)-48

3



R11-4-4830

4



W1-6R(0)-6030  
(ABOVE TYPE III BARRICADE)

5



M6-1L(0)-2115

6



M6-1R(0)-2115

7



W9-3L

8



R11-1101-2418

9



R11-2-4830

10



W20-3(0)-48

11



R3-2L-24

12



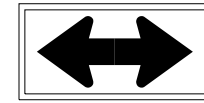
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R3-5R

14



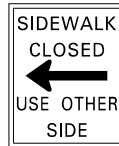
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R11-1102-2430

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R11-1102-2430

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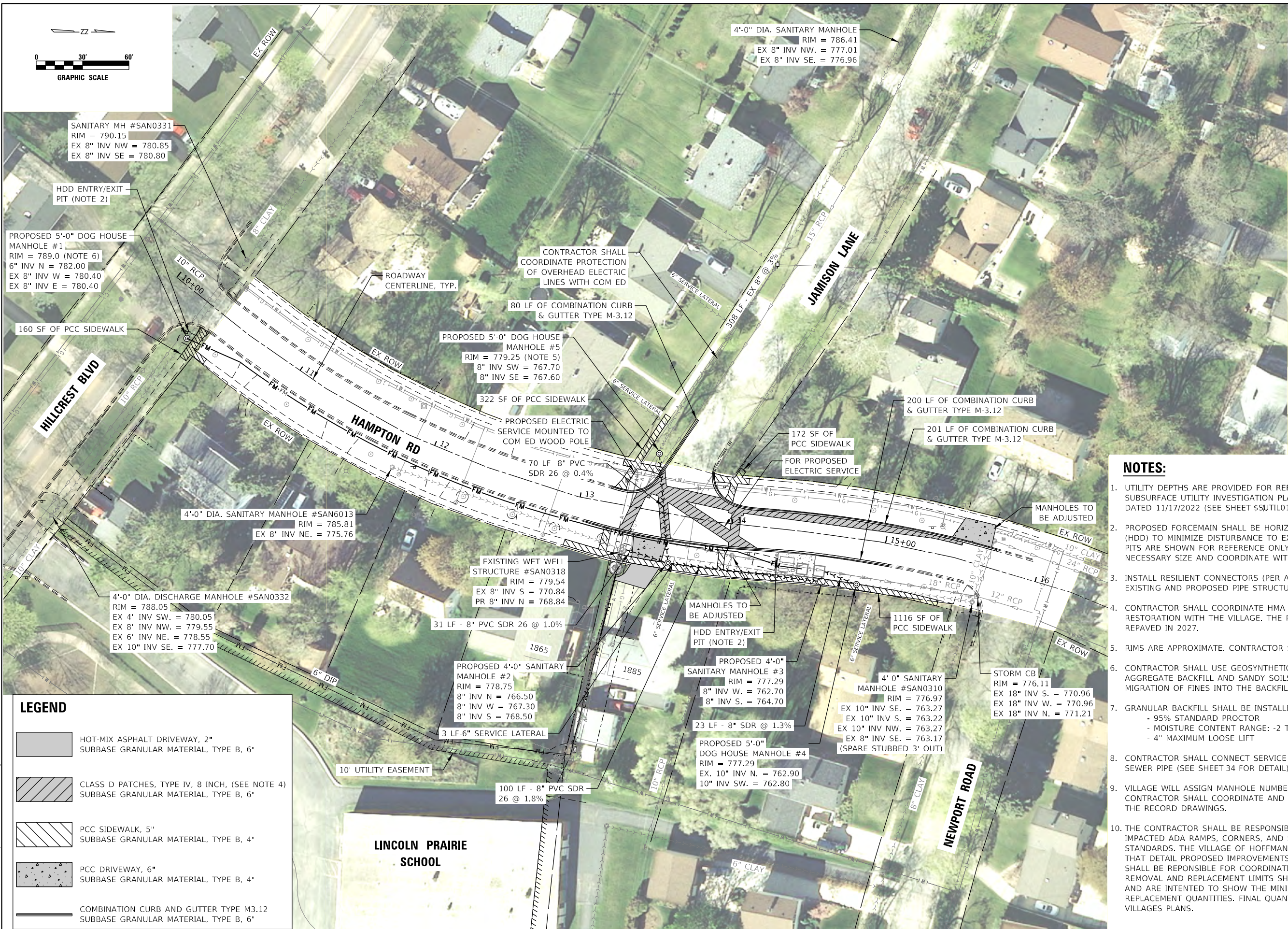
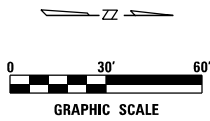


**VILLAGE OF HOFFMAN ESTATES**  
**1900 HASSELL ROAD**  
**HOFFMAN ESTATES, IL 60169**

**SIGN LEGEND**

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	42	10
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



**NOTES:**

- UTILITY DEPTHS ARE PROVIDED FOR REFERENCE AND ARE BASED ON SUBSURFACE UTILITY INVESTIGATION PLAN, AS PREPARED BY SAM COMPANIES, DATED 11/17/2022 (SEE SHEET S\$JTL01)
- PROPOSED FORCEMAIN SHALL BE HORIZONTALLY DIRECTIONALLY DRILLED (HDD) TO MINIMIZE DISTURBANCE TO EXISTING PARKWAY. ENTRY AND EXIT PITS ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR TO DETERMINE NECESSARY SIZE AND COORDINATE WITH ENGINEER ACCORDINGLY.
- INSTALL RESILIENT CONNECTORS (PER ASTM C-923) AT ALL CONNECTIONS TO EXISTING AND PROPOSED PIPE STRUCTURES.
- CONTRACTOR SHALL COORDINATE HMA PAVEMENT PATCHING AND RESTORATION WITH THE VILLAGE. THE ROADWAY IS SCHEDULED TO BE REPAVED IN 2027.
- RIMS ARE APPROXIMATE. CONTRACTOR SHALL MATCH EXISTING GRADES.
- CONTRACTOR SHALL USE GEOSYNTHETIC NON-WOVEN FILTER FABRIC BETWEEN AGGREGATE BACKFILL AND SANDY SOILS TO REDUCE POTENTIAL FOR THE MIGRATION OF FINES INTO THE BACKFILL MATERIAL.
- GRANULAR BACKFILL SHALL BE INSTALLED AT A MINIMUM AS FOLLOWS:
  - 95% STANDARD PROCTOR
  - MOISTURE CONTENT RANGE: -2 TO 2%
  - 4" MAXIMUM LOOSE LIFT
- CONTRACTOR SHALL CONNECT SERVICE LATERAL TO PROPOSED SANITARY SEWER PIPE (SEE SHEET 34 FOR DETAIL).
- VILLAGE WILL ASSIGN MANHOLE NUMBERS TO PROPOSED STRUCTURES. CONTRACTOR SHALL COORDINATE AND INCLUDE THE MANHOLE NUMBERS ON THE RECORD DRAWINGS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING ALL IMPACTED ADA RAMPS, CORNERS, AND SIDEWALKS TO MEET CURRENT STANDARDS. THE VILLAGE OF HOFFMAN ESTATES WILL ISSUE SEPARATE PLANS THAT DETAIL PROPOSED IMPROVEMENTS AND ELEVATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK WITH THE VILLAGE. THE REMOVAL AND REPLACEMENT LIMITS SHOWN ON THE PLANS ARE CONCEPTUAL AND ARE INTENDED TO SHOW THE MINIMUM IMPACTED REMOVAL AND REPLACEMENT QUANTITIES. FINAL QUANTITIES SHALL BE BASED ON THE VILLAGES PLANS.

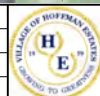
**LEGEND**

	HOT-MIX ASPHALT DRIVEWAY, 2" SUBBASE GRANULAR MATERIAL, TYPE B, 6"
	CLASS D PATCHES, TYPE IV, 8 INCH, (SEE NOTE 4) SUBBASE GRANULAR MATERIAL, TYPE B, 6"
	PCC SIDEWALK, 5" SUBBASE GRANULAR MATERIAL, TYPE B, 4"
	PCC DRIVEWAY, 6" SUBBASE GRANULAR MATERIAL, TYPE B, 4"
	COMBINATION CURB AND GUTTER TYPE M3.12 SUBBASE GRANULAR MATERIAL, TYPE B, 6"

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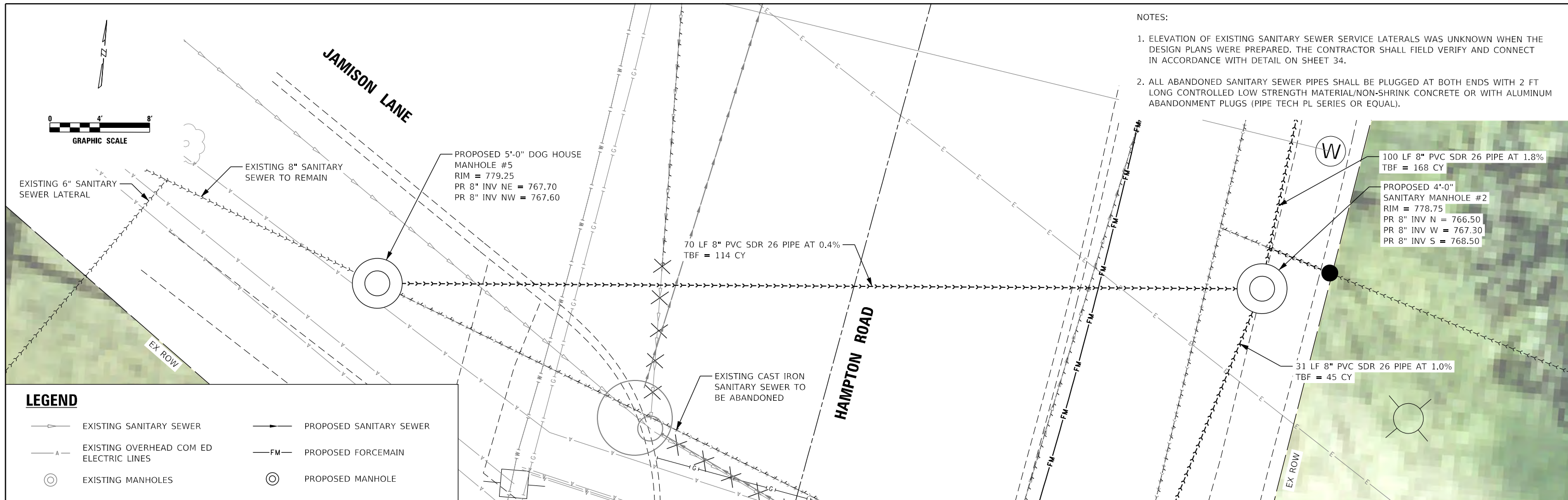
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	DATE - 3/20/2026	REVISED -



**VILLAGE OF HOFFMAN ESTATES**  
 1900 HASSELL ROAD  
 HOFFMAN ESTATES, IL 60169

<b>PROPOSED UTILITY PLAN</b>	
SCALE: 1" = 30'	SHEET 1 OF 1 SHEETS STA. TO STA.

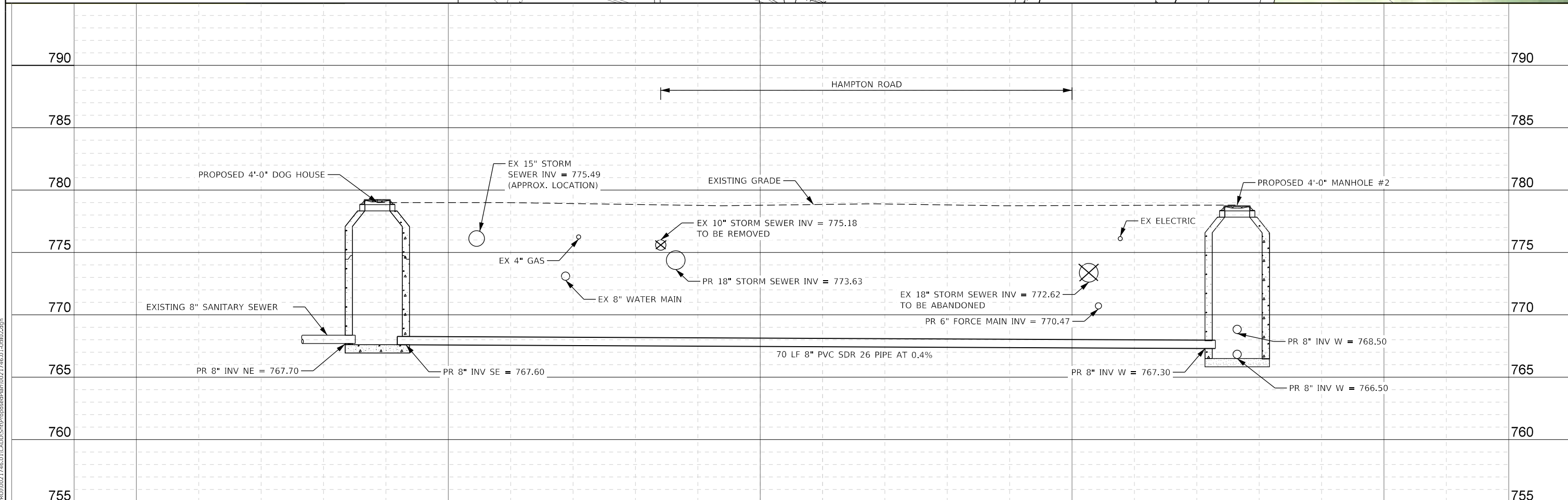
RTG.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	42	11
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



- NOTES:
- ELEVATION OF EXISTING SANITARY SEWER SERVICE LATERALS WAS UNKNOWN WHEN THE DESIGN PLANS WERE PREPARED. THE CONTRACTOR SHALL FIELD VERIFY AND CONNECT IN ACCORDANCE WITH DETAIL ON SHEET 34.
  - ALL ABANDONED SANITARY SEWER PIPES SHALL BE PLUGGED AT BOTH ENDS WITH 2 FT LONG CONTROLLED LOW STRENGTH MATERIAL/NON-SHRINK CONCRETE OR WITH ALUMINUM ABANDONMENT PLUGS (PIPE TECH PL SERIES OR EQUAL).

**LEGEND**

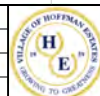
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	EXISTING OVERHEAD COM ED ELECTRIC LINES		PROPOSED FORCEMAIN
	EXISTING MANHOLES		PROPOSED MANHOLE



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	DATE - 3/20/2026	REVISED -



**VILLAGE OF HOFFMAN ESTATES**  
 1900 HASSELL ROAD  
 HOFFMAN ESTATES, IL 60169

**PROPOSED SANITARY SEWER PLAN & PROFILE**

SCALE: 1/4" = 1'-0" SHEET OF SHEETS STA. TO STA.

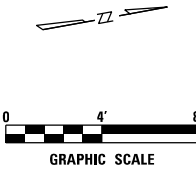
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		COOK	42	12
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

13

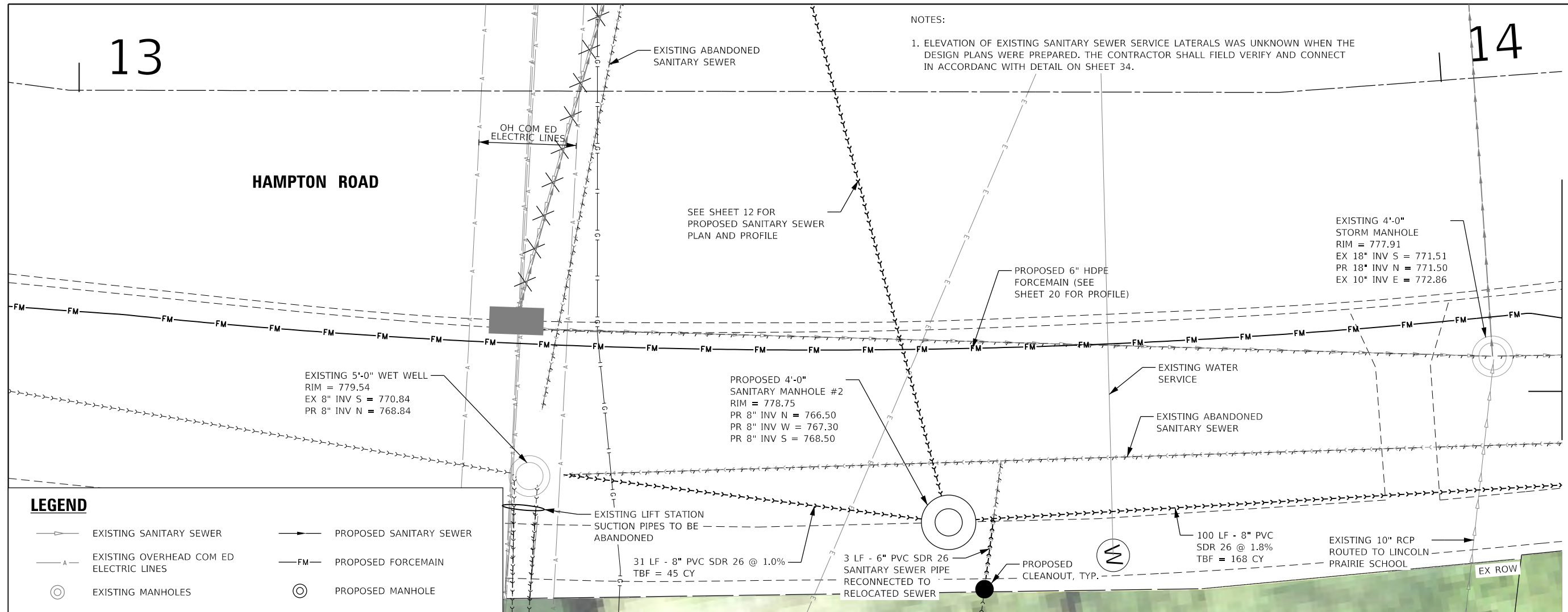
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NOTES:

1. ELEVATION OF EXISTING SANITARY SEWER SERVICE LATERALS WAS UNKNOWN WHEN THE DESIGN PLANS WERE PREPARED. THE CONTRACTOR SHALL FIELD VERIFY AND CONNECT IN ACCORDANCE WITH DETAIL ON SHEET 34.

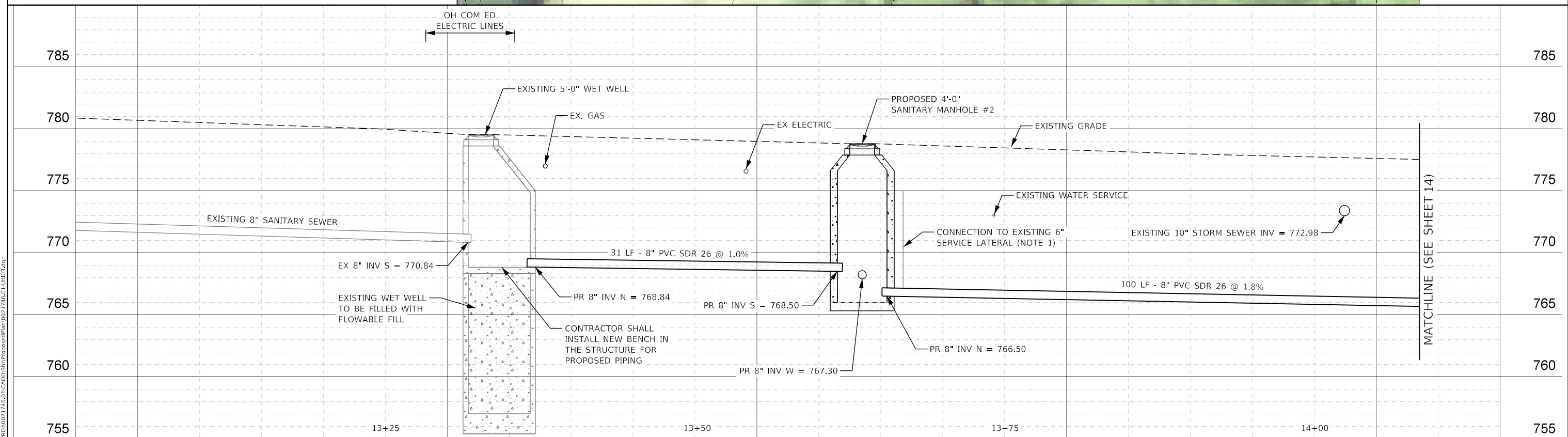


HAMPTON ROAD



LEGEND

- EXISTING SANITARY SEWER
- EXISTING OVERHEAD COM ED ELECTRIC LINES
- EXISTING MANHOLES
- PROPOSED SANITARY SEWER
- PROPOSED FORCEMAIN
- PROPOSED MANHOLE

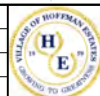


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PLOT DATE =	5/7/2026

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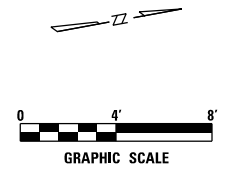


VILLAGE OF HOFFMAN ESTATES  
1900 HASSELL ROAD  
HOFFMAN ESTATES, IL 60169

PROPOSED SANITARY SEWER PLAN & PROFILE			
SCALE: 1/4" = 1'-0"	SHEET	OF	SHEETS
STA.	TO	STA.	

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	42	13
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

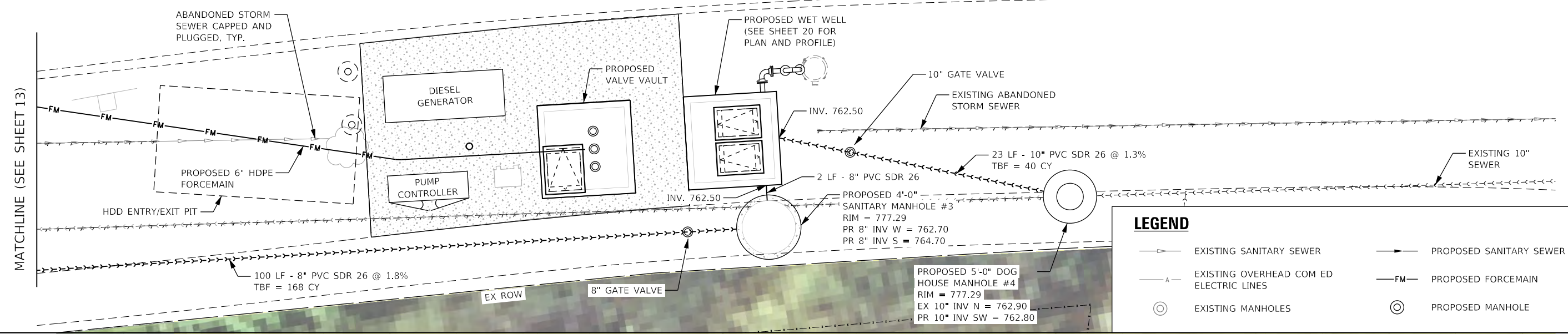
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## HAMPTON ROAD

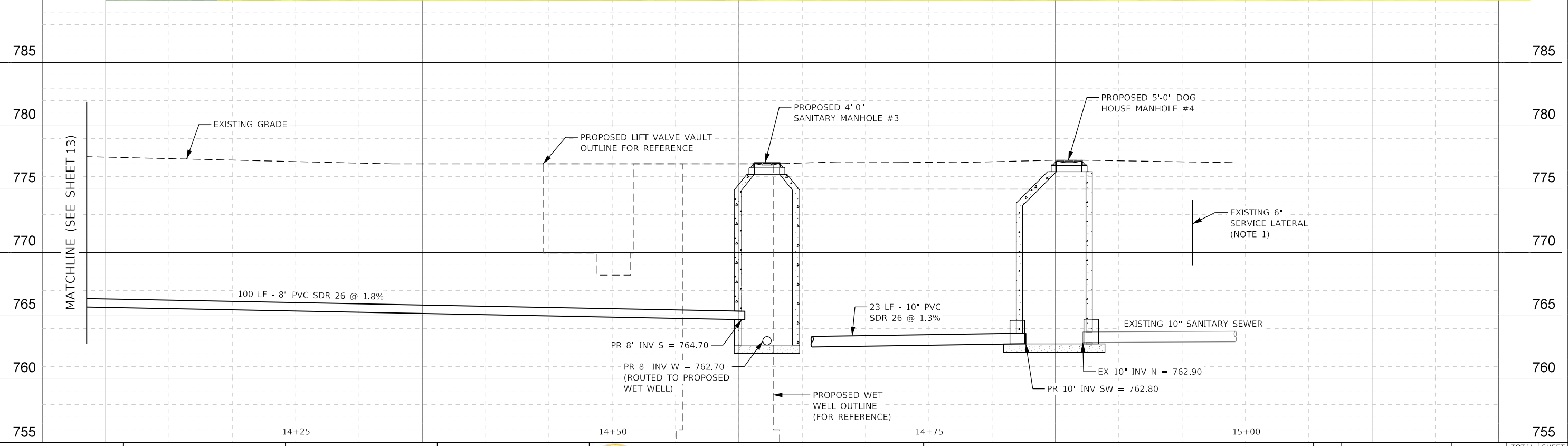
### NOTES:

- ELEVATION OF EXISTING SANITARY SEWER SERVICE LATERALS WAS UNKNOWN WHEN THE DESIGN PLANS WERE PREPARED. THE CONTRACTOR SHALL FIELD VERIFY AND CONNECT IN ACCORDANC WITH DETAIL ON SHEET 34.
- ALL ABANDONED SANITARY SEWERS SHALL BE PLUGGED AT BOTH ENDS WITH 2 FT LONG CONTROLLED LOW STRENGTH MATERIAL/NON-SHRINK CONCRETE OR WITH ALUMINUM ABANDONMENT PLUGS (PIPE TECH PL SERIES OR EQUAL).
- GATE VALVE SHALL BE INSTALLED TO ISOLATE THE LIFT STATION FOR MAINTENANCE.



### LEGEND

- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- A — EXISTING OVERHEAD COM ED ELECTRIC LINES
- FM — PROPOSED FORCEMAIN
- ⊙ EXISTING MANHOLES
- ⊙ PROPOSED MANHOLE



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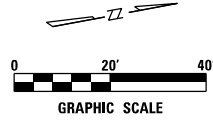


**VILLAGE OF HOFFMAN ESTATES**  
 1900 HASSELL ROAD  
 HOFFMAN ESTATES, IL 60169

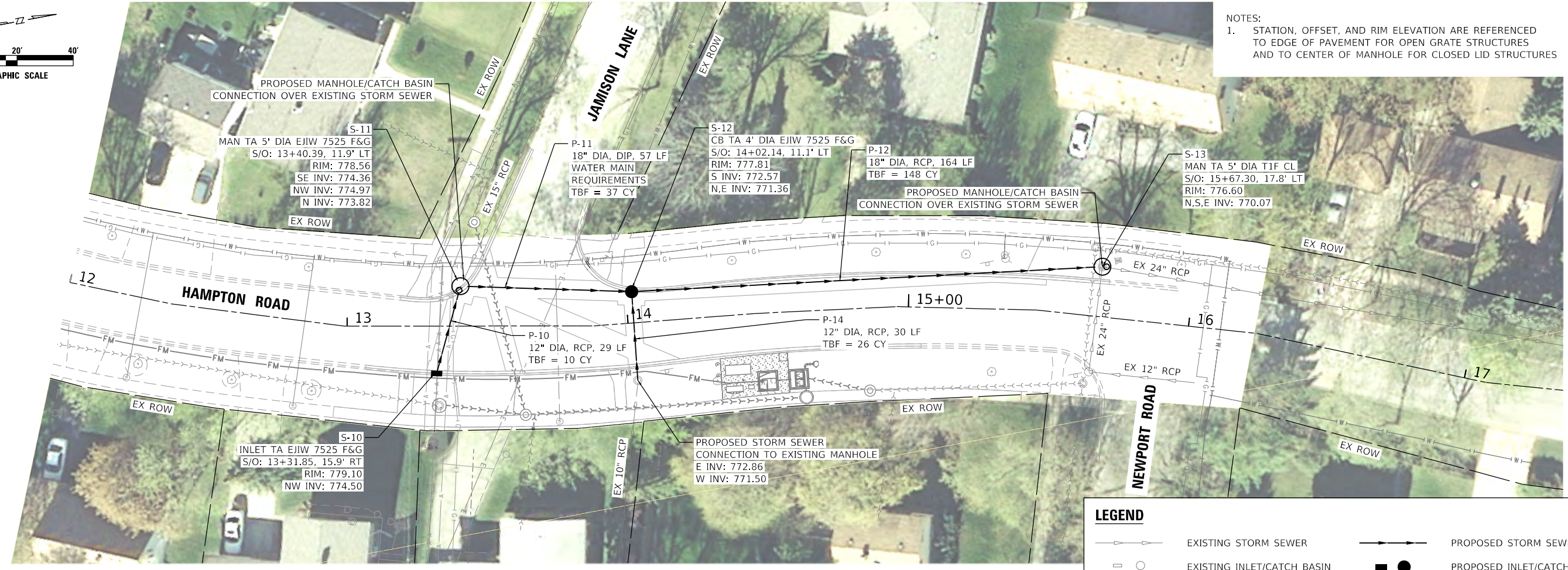
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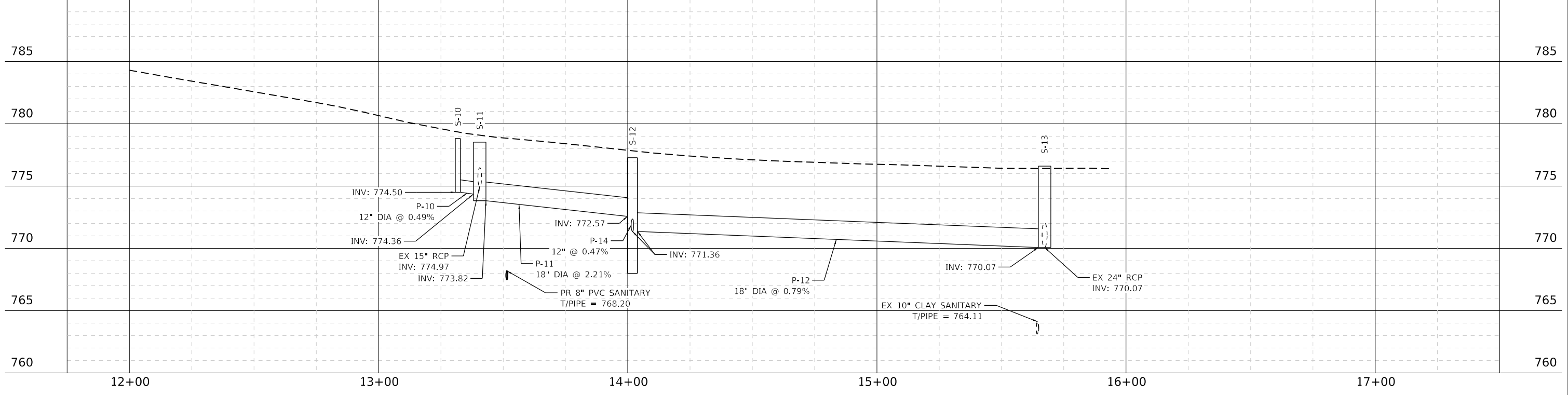
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		COOK	42	14
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



NOTES:  
 1. STATION, OFFSET, AND RIM ELEVATION ARE REFERENCED TO EDGE OF PAVEMENT FOR OPEN GRATE STRUCTURES AND TO CENTER OF MANHOLE FOR CLOSED LID STRUCTURES



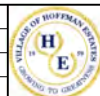
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	EXISTING INLET/CATCH BASIN
	EXISTING MANHOLE
	PROPOSED STORM SEWER
	PROPOSED INLET/CATCH BASIN
	PROPOSED MANHOLE



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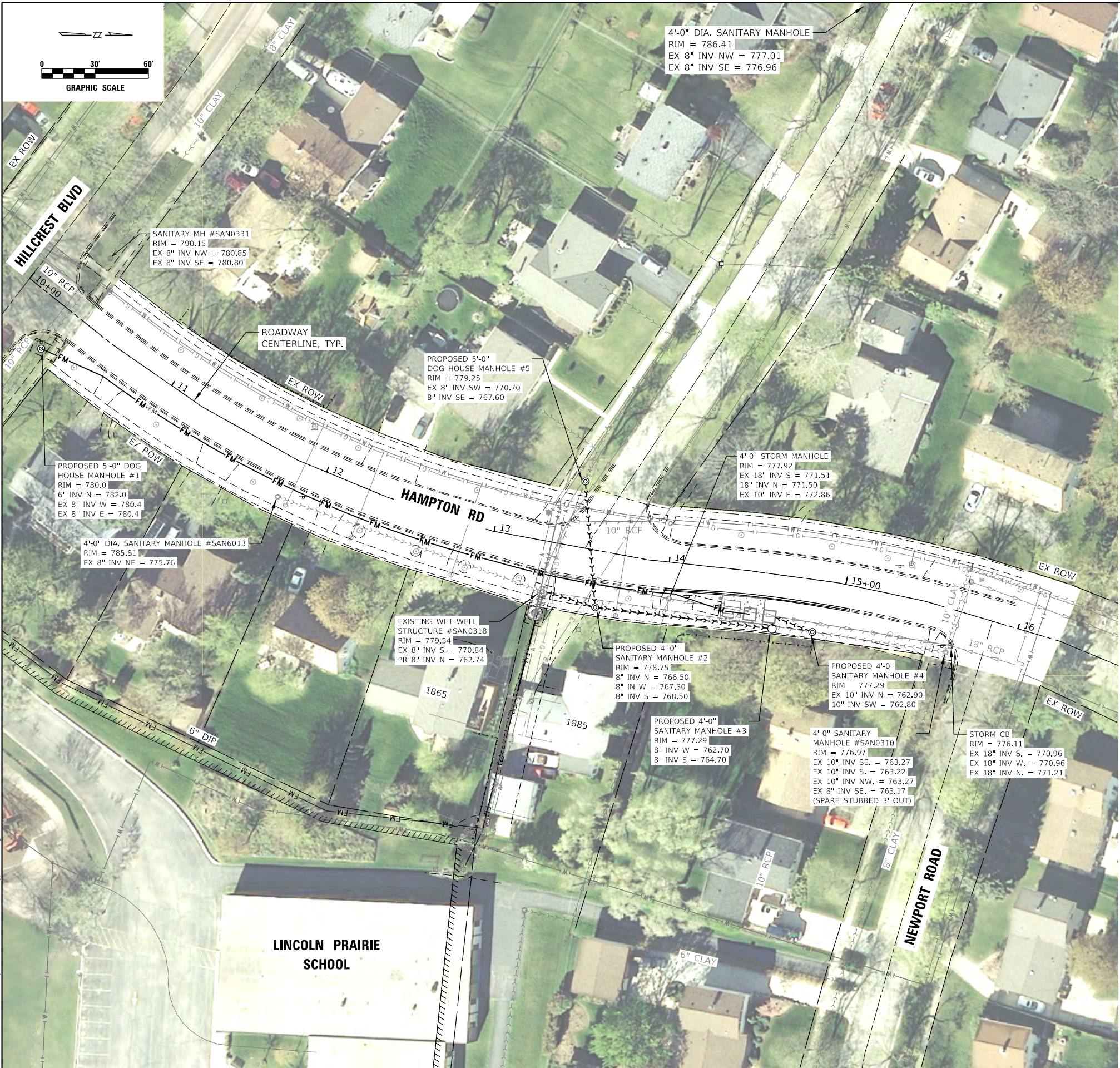
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VILLAGE OF HOFFMAN ESTATES  
 1900 HASSELL ROAD  
 HOFFMAN ESTATES, IL 60169

HAMPTON LIFT STATION IMPROVEMENTS  
 PROPOSED STORM SEWER PLAN AND PROFILE  
 SCALE: 1" = 20' SHEET 1 OF 1 SHEETS STA. TO STA.

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	42	15
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



**RECOMMENDED SEQUENCE OF WORK**

SANITARY SEWER - ALONG JAMISON LANE	
1	INSTALL PROPOSED SANITARY SEWER MANHOLES #2 (WITHIN THE EXISTING DRIVEWAY FOR 1885 HAMPTON ROAD) AND #5 (ALONG JAMISON LANE). THE CONTRACTOR SHALL PLUG OPENINGS IN MANHOLE #2 FOR PROPOSED SANITARY SEWER ROUTED TO THE NORTH. THE CONNECTION WILL NOT BE MADE UNTIL AFTER THE PROPOSED LIFT STATION IS CONSTRUCTED.
2	INSTALL PROPOSED SANITARY SEWER PIPE BETWEEN PROPOSED MANHOLES #2 AND #5. THIS INCLUDES: - INSTALLING SANITARY LATERAL(S) TO RESIDENTIAL HOMES. - INSTALLING NEW PIPE TO EXISTING WET WELL STRUCTURE. - INSTALLING NEW PIPE TO CONNECT TO EXISTING SANITARY SEWER ALONG JAMISON LANE.
3	COORDINATE SERVICE SHUTDOWN TO ALLOW FOR THE PROPOSED SANITARY SEWER TO BE CONNECTED AND ALLOW FLOW TO THE EXISTING WET WELL.

**PROPOSED LIFT STATION CONSTRUCTION**

1	INSTALL PROPOSED STORM SEWER, AS SHOWN ON PLANS, TO RELOCATE THE PIPING OUTSIDE OF THE PROPOSED LIFT STATION FOOTPRINT.
2	CONTRACTOR SHALL CONSTRUCT THE PROPOSED LIFT STATION, PROTECTING THE EXISTING SANITARY SEWER LOCATED ADJACENT TO IT DURING CONSTRUCTION.
3	UPON COMPLETION OF THE PROPOSED LIFT STATION THE CONTRACTOR SHALL INSTALL PROPOSED SANITARY SEWER ALONG HAMPTON ROAD, NORTH OF THE EXISTING LIFT STATION. TO REROUTE THE SEWER TO THE PROPOSED LIFT STATION.
4	CONTRACTOR SHALL INSTALL MANHOLE #3 AND PIPING BETWEEN MANHOLES #2 AND #3.
5	CONTRACTOR SHALL INSTALL MANHOLE #4 (A DOGHOUSE MANHOLE) ON EXISTING SANITARY SEWER PIPE, AND THE PROPOSED SANITARY SEWER PIPING BETWEEN MANHOLE #4 AND THE PROPOSED WET WELL.
6	THE CONTRACTOR SHALL REMOVE THE EXISTING PLUG INSTALLED IN MANHOLE #2 ONCE THE PROPOSED SANITARY SEWERS ARE CONNECTED TO THE PROPOSED LIFT STATION, AND THE LIFT STATION IS OPERATIONAL.
7	CONTRACTOR SHALL PLUG EXISTING WET WELL AND MANHOLE #2 TO FILL THE EXISTING WET WELL WITH FLOWABLE FILL.
8	THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY BYPASS PUMPING OR REMOVAL OF SANITARY SEWER FROM EXISTING MANHOLE #SAN6013 WHILE THE CONCRETE CURES IN THE WET WELL STRUCTURE (SEE NOTE 1).
9	ONCE ALL EXISTING SANITARY SEWER FLOW IS REROUTED TO THE PROPOSED LIFT STATION, THE EXISTING LIFT STATION CAN BE REMOVED AND DEMOLISHED.

- NOTES:**
- CONTRACTOR SHALL COORDINATE WORK TO MINIMIZE BYPASS PUMPING DURATION. BYPASS PUMPING SHALL BE INSTALLED AS NECESSARY WHEN EXISTING MANHOLES ARE PLUGGED TO ALLOW FOR INSTALLATION OF NEW MANHOLES AND SANITARY SEWER PIPING. BASED ON THE EXISTING FLOW, THE CONTRACTOR MAY ELECT TO USE A VACTOR TRUCK TO REMOVE SANITARY SEWER FLOW. THE VILLAGE MAY ALLOW DISPOSAL OF REMOVED MATERIAL AT THEIR FACILITIES. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE VILLAGE PRIOR TO BYPASS PUMPING. THIS WORK SHALL BE PAID FOR UNDER THE CONTRACT PAY ITEM [PAYMENT?].
  - CONTRACTOR SHALL COORDINATE BYPASS PUMPING SCHEDULE, EQUIPMENT AND OPERATIONS WITH THE VILLAGE PRIOR TO BEGINNING CONSTRUCTION.
  - A BACK-UP PUMP SHALL BE PROVIDED FOR THE BYPASS PUMPING SYSTEM. THE BACK-UP PUMP SHALL BE SET TO OPERATE IF THE WATER LEVEL IN THE MANHOLE REACHES THE HIGH WATER LEVEL.
  - THE BYPASS PUMPING SYSTEM SHALL BE PROVIDED WITH TEMPORARY CELLULAR CONNECTION AND AUTODIALER TO NOTIFY THE CITY STAFF AND CONTRACTOR OF A HIGH WATER CONDITION.
  - TEMPORARY POWER SHALL BE EXTENDED FROM THE EXISTING PUMP CONTROLLER.
  - CONTRACTOR CAN PROPOSE AN ALTERNATE CONSTRUCTION BYPASS SEQUENCE FOR APPROVAL.
  - THE MAXIMUM DURATION WHICH THE EXISTING STATION CAN BE OFFLINE IS 4 HOURS DURING THE DAY (PEAK HOURS), AND 6 HOURS OVERNIGHT (OFF-PEAK HOURS). CONTRACTOR SHALL COORDINATE THIS WORK WITH THE ENGINEER AND CITY PRIOR TO TAKING THE STATION OFFLINE.

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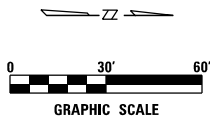


**VILLAGE OF HOFFMAN ESTATES**  
 1900 HASSELL ROAD  
 HOFFMAN ESTATES, IL 60169

**BY-PASS AND SEQUENCE OF WORK PLAN**

SCALE: 1" = 30' SHEET 1 OF 1 SHEETS STA. TO STA.

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	42	16
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

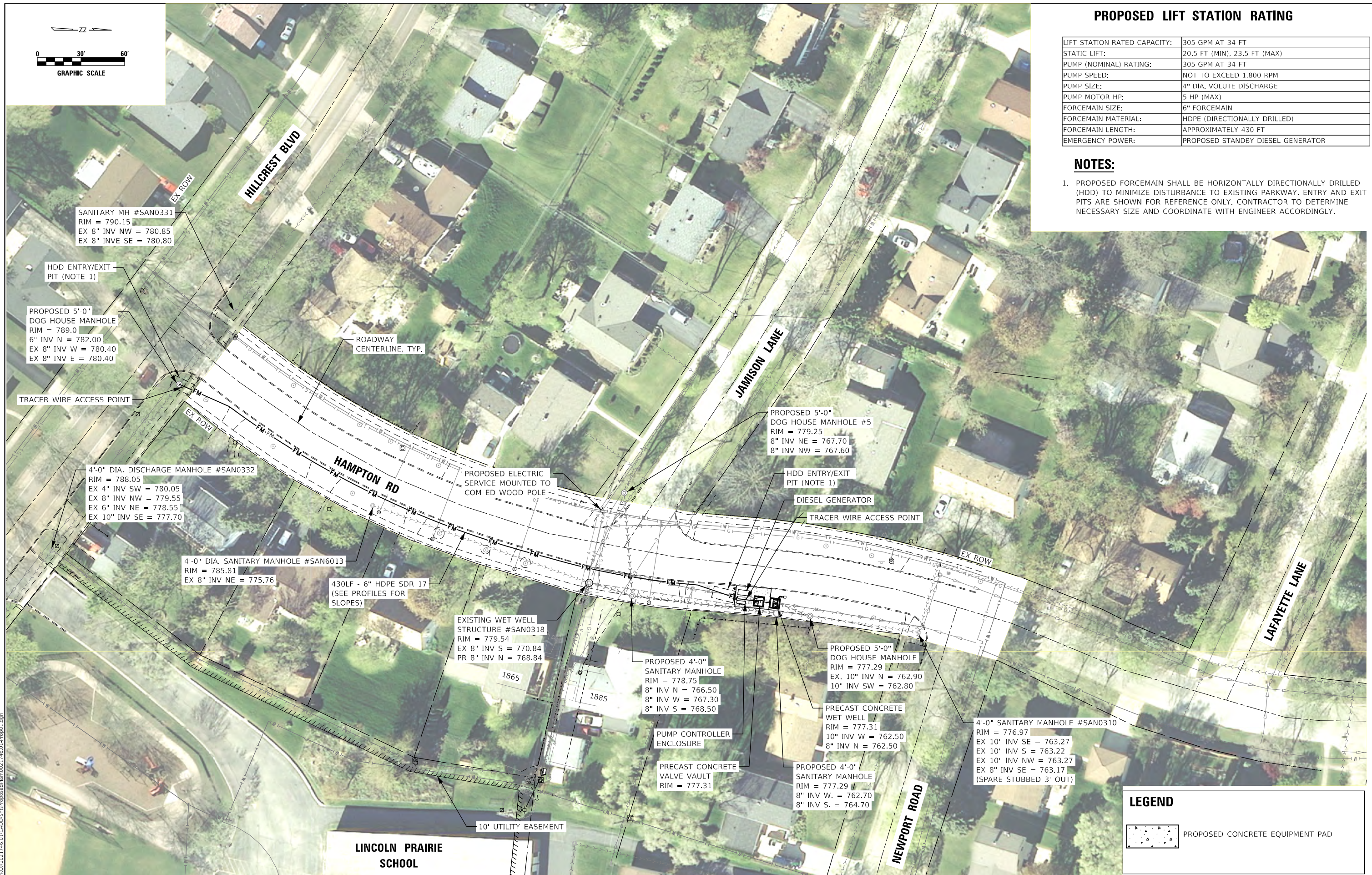


**PROPOSED LIFT STATION RATING**

LIFT STATION RATED CAPACITY:	305 GPM AT 34 FT
STATIC LIFT:	20.5 FT (MIN), 23.5 FT (MAX)
PUMP (NOMINAL) RATING:	305 GPM AT 34 FT
PUMP SPEED:	NOT TO EXCEED 1,800 RPM
PUMP SIZE:	4" DIA, VOLUTE DISCHARGE
PUMP MOTOR HP:	5 HP (MAX)
FORCEMAIN SIZE:	6" FORCEMAIN
FORCEMAIN MATERIAL:	HDPE (DIRECTIONALLY DRILLED)
FORCEMAIN LENGTH:	APPROXIMATELY 430 FT
EMERGENCY POWER:	PROPOSED STANDBY DIESEL GENERATOR

**NOTES:**

1. PROPOSED FORCEMAIN SHALL BE HORIZONTALLY DIRECTIONALLY DRILLED (HDD) TO MINIMIZE DISTURBANCE TO EXISTING PARKWAY. ENTRY AND EXIT PITS ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR TO DETERMINE NECESSARY SIZE AND COORDINATE WITH ENGINEER ACCORDINGLY.



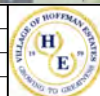
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	PROPOSED CONCRETE EQUIPMENT PAD
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**VILLAGE OF HOFFMAN ESTATES**  
 1900 HASSELL ROAD  
 HOFFMAN ESTATES, IL 60169

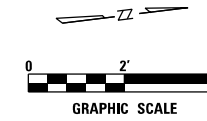
**PROPOSED LIFT STATION PLAN**

SCALE: 1" = 30' SHEET 1 OF 1 SHEETS STA. TO STA.

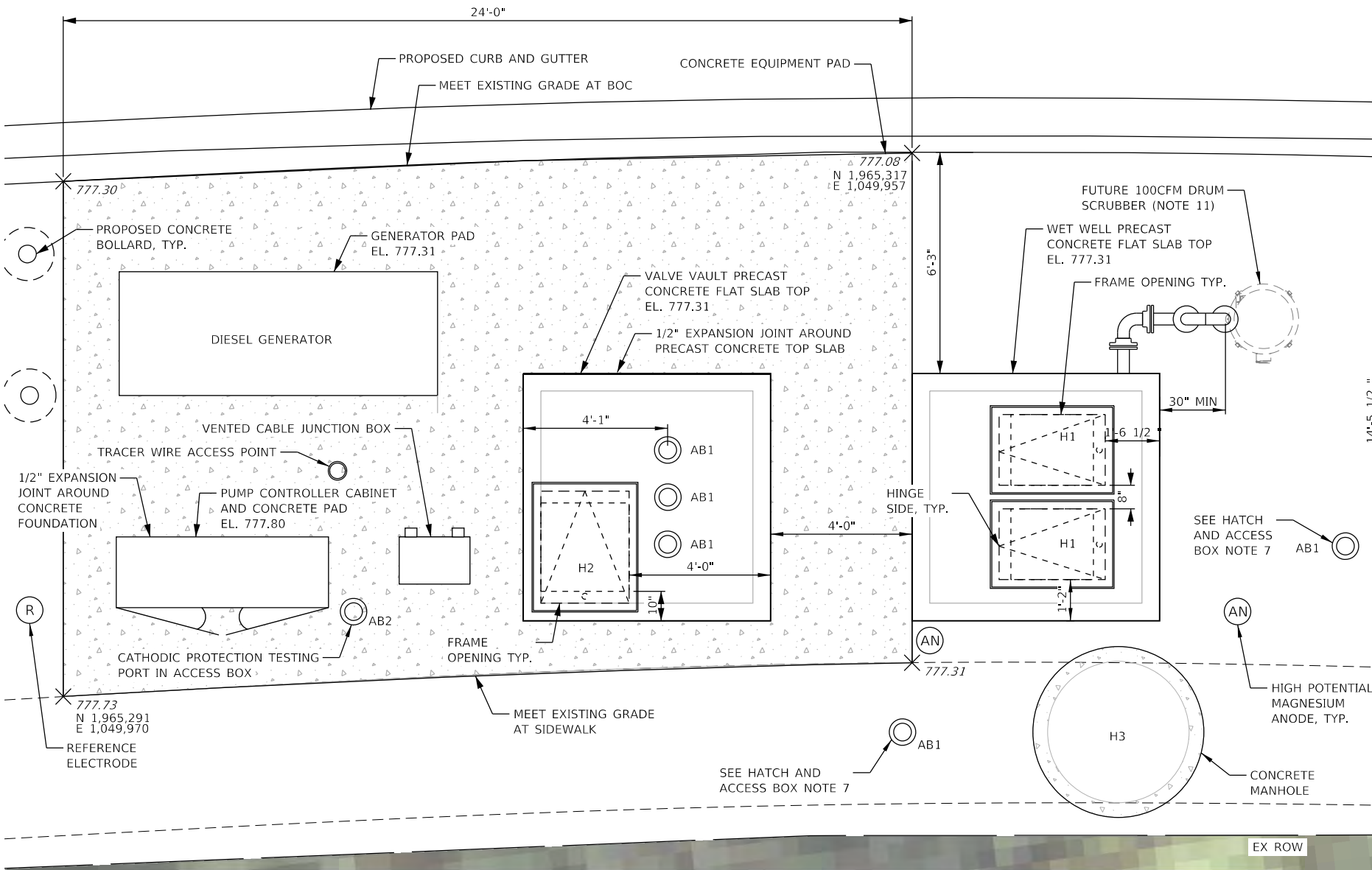
RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	42	17
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

**LEGEND**

- ✕ 777.30 EXISTING SPOT ELEVATION
- ✕ 777.30 PROPOSED SPOT ELEVATION
- SLOPE OF CONCRETE
- N 1,965,317  
E 1,049,957 NORTHING AND EASTING
- - - - BREAKLINE



HAMPTON RD



**HATCH AND ACCESS BOX SCHEDULE**

IDENTIFER	DESCRIPTION	ABSOLUTE CLEAR OPENING (WXL)	FRAME OPENING (WXL)	QTY	MANUFACTURER	MODEL (OR EQUAL)
H1	WET WELL HATCH	24"x28"	36"x24"	2	BILCO	J-ALH20
H2	VALVE VAULT HATCH	30"x30"	38"x30"	1	BILCO	J-ALH20
H3	MANHOLE COVER	-	24" DIA.	1	EJIW	1020 AGS
AB1	HEAVY DUTY WATER VALVE BOX	-	9" DIA.	5	TYLER UNION	32U (SCREW TYPE)
AB2	VALVE BOX (NOTE 6)	-	11" DIA.	1	TYLER UNION	32U-TU G05

**NOTES:**

1. CLEAR OPENING SHALL BE THE UNOBSTRUCTED OPENING FOR EQUIPMENT/PUMP REMOVAL. FALL PROTECTION GRATING, GUIDE ARMS AND SPRINGS SHALL NOT BE LOCATED WITHIN THE CLEAR OPENING.
2. HATCHES SHALL BE ALUMINUM WITH A H-20 RATING.
3. HATCHES SHALL BE GASKETED, ODOR RESISTANT AND LOCKABLE. A RECESSED STAPLE SHALL BE PROVIDED IN HATCH FOR PADLOCK. ALL PADLOCKS SHALL BE KEYPED BY ANDERSON LOCK FOR THE VILLAGE'S STANDARD CORE.
4. SAFETY GRATING SHALL SPAN THE ENTIRE OPENING OF EACH HATCH. SAFETY GRATING SHALL BE CAPABLE OF SUPPORTING 300 PSF LIVE LOAD.
5. HATCH DRAINAGE CHANNEL SHALL BE PIPED TO DISCHARGE TO WET WELL.
6. HATCHES SHALL BE GROUND (SEE ELECTRIC SHEETS FOR DETAILS).
7. VALVE EXTENDER SHALL BE INSTALLED OVER BURIED VALVES.

**LIFT STATION IDENTIFIERS**

ITEM	DESCRIPTION	MANUFACTURER MODEL NO. OR EQUAL
1	SUBMERSIBLE PUMP, EXPLOSION PROOF, CLASS 1, DIVISION 1, GROUP D	FLYGT, SULZER, GRUNDFOS OR HYDRAMATIC
2	MANUFACTURER'S BASE ELBOW	-
3	4" DUCTILE IRON (DI), CLASS 52, PIPE	-
4	4"x6" DI FLANGED 90° REDUCING ELBOW	-
5	6" DUCTILE IRON (DI), CLASS 52, PIPE	-
6	6" DI MJ COUPLER	-
7	MECHANICAL JOINT RESTRAINT	EBAA MEGALUG
8	1/4" TAP AND BALL VALVE FOR PRESSURE GAUGE	-
9	6" SWING FLEX CHECK VALVE WITH INDICATOR AND BACKFLUSH DEVICE	VALMATIC OR FLOMATIC
10	6" RESILIENT WEDGE GATE VALVE WITH NON-RISING STEM	MUELLER
11	6" DI FLANGED 90° ELBOW	-
12	6" DI FLANGED CROSS	-
13	6"x4" DI FLANGED REDUCING 90° ELBOW WITH 4" RESILIENT WEDGE GATE VALVE WITH MITER GEAR AND 4" STAINLESS STEEL MALE ADAPTER FLANGED CAM AND GROOVE CONNECTION	-
14	COMBINATION AIR/VACUUM VALVE WITH BACKFLUSH KIT	-
15	DI PIPE WITH 1" TAP	-
16	ALUMINUM LADDER WITH VERTICAL TELESCOPING SAFETY POST PERMANENTLY MOUNTED	-
17	6" HDPE FORCEMAIN, DIRECTIONALLY DRILLED WITH TRACER WIRE	-
18	6" HDPE 45° ELBOW	-
19	6" HDPE 90° ELBOW	-
20	4" DI FLANGED VENT PIPE WITH BUG SCREEN	-
21	CONCRETE Baffle WALL	-
22	1/3 HP, 120 V SUMP PUMP IN 24" DIA. SUMP PIT WITH ALUMINUM GRATE	RIGID MODEL #330RSDS
23	STAINLESS STEEL GUIDE RAILS WITH FACTORY DRILLED HOLES FOR GROUNDING (SEE SHEET 28)	-
24	LEVEL MANAGEMENT SYSTEM (SEE SHEET 22 FOR DETAILS)	-

**NOTES:**

1. CONTRACTOR SHALL COORDINATE SPOOL PIPE LENGTHS AND END TYPES AS REQUIRED FOR LAYOUT. ALL MECHANICAL JOINT FITTINGS SHALL BE RESTRAINED.
2. EXTERIOR SURFACES OF PROPOSED STRUCTURES SHALL BE COATED WITH BITUMINOUS WATER PROOFING. TWO COATS, 8 MILS THICK (DRY), OF TNEMC SERIES 46-465 H.B. TNEMCOL (OR EQUAL, SEE SECTION 09 90 00).
3. ABOVE GRADE VENT PIPING SHALL BE FIELD PAINTED WITH TNEMC SERIES 73 ENDURA-SHIELD (OR EQUAL, SEE SECTION 09 90 00) AND ALL DISCHARGE PIPING LOCATED WITHIN STRUCTURES SHALL HAVE A MANUFACTURERAPPLIED PRIME COATING, AND FIELD PAINTED WITH TNEMC SERIES N69-COLOR HI-BUILD EPOXOLINE II PAINT (OR EQUAL, SEE SECTION 09 90 00), COLOR SHALL BE SIMILAR TO TNEMC FAIRWAY GREEN.
4. WET WELL AND VALVE VAULT FLAT SLAB CONCRETE TOPS SHALL HAVE A H-20 RATING.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR EQUIPMENT ORIENTATION, COORDINATING WITH THE ENGINEER AND OWNER.
6. DIMENSIONS FOR HATCH AND LID LOCATIONS ARE PROVIDED FOR REFERENCE. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE LOCATIONS WITH INSTALLED PIPE, VALVES, AND PUMP LOCATIONS.
7. CONTRACTOR SHALL VERIFY GRADE ELEVATIONS AND INVERTS OF EXISTING SEWERS AND STRUCTURES. GRADES AND ELEVATIONS ARE BASED ON AVAILABLE DRAWINGS DURING DESIGN.
8. PROVIDE WATER TIGHT JOINTS BY USING LINK SEAL TO SEAL PIPING THROUGH SQUARE STRUCTURES, AND RESILIENT CONNECTORS THAT CONFORM TO ASTM C-923 FOR ROUND STRUCTURES.
9. PRECAST FABRICATED CONCRETE STRUCTURES SHALL HAVE JOINTS SEALED WITH BUTYL RUBBER SEALANT ROPE AND EXTERIOR JOINT SEALED WITH MAC WRAP.
10. USE OF PUMPS SUPPLIED UNDER THIS CONTRACT FOR THE PURPOSE OF DEWATERING DURING CONSTRUCTION SHALL NOT BE PERMITTED.
11. FUTURE SCRUBBER PROVIDED FOR REFERENCE. THE SCRUBBER WILL BE INSTALLED BY THE VILLAGE AT A LATER DATE, AND WILL REQUIRE A MINIMUM OF 30" CLEARANCE AROUND THE ENTIRE DRUM. THE SCRUBBER WILL BE CONNECTED TO THE 4" VENT PIPE.

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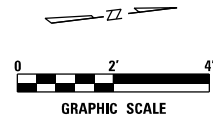


**VILLAGE OF HOFFMAN ESTATES**  
**1900 HASSELL ROAD**  
**HOFFMAN ESTATES, IL 60169**

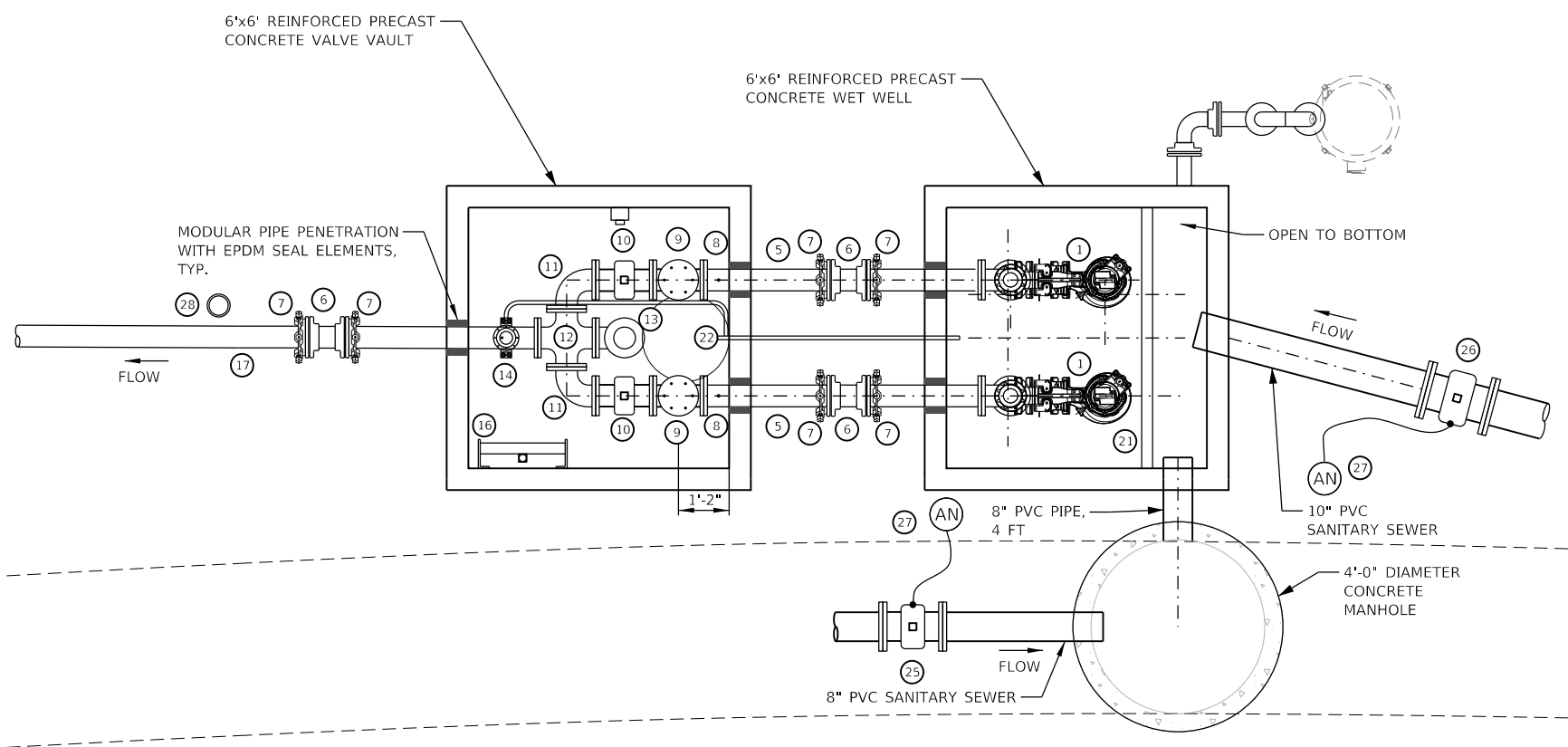
**ENLARGED LIFT STATION PLAN**

SCALE: 1/4" = 1'-0" SHEET 1 OF 1 SHEETS STA. TO STA.

RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	42	18
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



HAMPTON RD



ENLARGED PLAN VIEW – BELOW GRADE

LIFT STATION IDENTIFIERS		
ITEM	DESCRIPTION	MANUFACTURER MODEL NO. OR EQUAL
1	SUBMERSIBLE PUMP, EXPLOSION PROOF, CLASS 1, DIVISION 1, GROUP D	FLYGT, SULZER OR GRUNDFOS
2	MANUFACTURER'S BASE ELBOW	-
3	4" DUCTILE IRON (DI), CLASS 52, PIPE	-
4	4"x6" DI FLANGED 90° REDUCING ELBOW	-
5	6" DUCTILE IRON (DI), CLASS 52, PIPE	-
6	6" DI MJ COUPLER	-
7	MECHANICAL JOINT RESTRAINT	EBAA MEGALUG
8	1/4" TAP AND BALL VALVE FOR PRESSURE GAUGE	-
9	6" SWING FLEX CHECK VALVE WITH INDICATOR AND BACKFLUSH DEVICE	VALMATIC OR FLOMATIC
10	6" RESILIENT WEDGE GATE VALVE WITH NON-RISING STEM	MUELLER
11	6" DI FLANGED 90° ELBOW	-
12	6" DI FLANGED CROSS	-
13	6"x4" DI FLANGED REDUCING 90° ELBOW WITH 4" RESILIENT WEDGE GATE VALVE WITH MITER GEAR AND 4" STAINLESS STEEL MALE ADAPTER FLANGED CAM AND GROOVE CONNECTION	-
14	COMBINATION AIR/VACUUM VALVE WITH BACKFLUSH KIT	-
15	DI PIPE WITH 1" TAP	-
16	ALUMINUM LADDER WITH VERTICAL TELESCOPING SAFETY POST PERMANENTLY MOUNTED	-
17	6" HDPE FORCEMAIN, DIRECTIONALLY DRILLED WITH TRACER WIRE	-
18	6" HDPE 45° ELBOW	-
19	6" HDPE 90° ELBOW	-
20	4" DI FLANGED VENT PIPE WITH BUG SCREEN	-
21	CONCRETE Baffle WALL	-
22	1/3 HP, 120 V SUMP PUMP (ZOELLER M53) IN 24" DIA. SUMP PIT WITH ALUMINUM GRATE	-
23	STAINLESS STEEL GUIDE RAILS WITH FACTORY DRILLED HOLES FOR GROUNDING (SEE SHEET 28)	-
24	LEVEL MANAGEMENT SYSTEM (SEE SHEET 22 FOR DETAILS)	-
25	8" RESILIENT WEDGE GATE VALVE (DIRECT BURY) WITH EXTENSION	MUELLER
26	10" RESILIENT WEDGE GATE VALVE (DIRECT BURY) WITH EXTENSION	MUELLER
27	30LB MAGNESIUM ANODE EXOTHERMICALLY WELDED TO VALVE	-
28	TRACER WIRE ACCESS POINT	COPPERHEAD INDUSTRIES SNAKE PIT SERIES
29	STAINLESS STEEL 6-HOOK BRACKET	CONERY MANUFACTURING (USA BLUEBOOK ITEM NO. 47715)

- NOTES:
- CONTRACTOR SHALL COORDINATE SPOOL PIPE LENGTHS AND END TYPES AS REQUIRED FOR LAYOUT. ALL MECHANICAL JOINT FITTINGS SHALL BE RESTRAINED.
  - EXTERIOR SURFACES OF PROPOSED STRUCTURES SHALL BE COATED WITH BITUMINOUS WATER PROOFING, TWO COATS, 8 MILS THICK (DRY), OF TNEMEC SERIES 46-465 H.B. TNEMCOL (OR EQUAL, SEE SECTION 09 90 00).
  - ABOVE GRADE VENT PIPING SHALL BE FIELD PAINTED WITH TNEMEC SERIES 73 ENDURA-SHIELD (OR EQUAL, SEE SECTION 09 90 00) AND ALL DISCHARGE PIPING LOCATED WITHIN STRUCTURES SHALL HAVE A MANUFACTURERAPPLIED PRIME COATING, AND FIELD PAINTED WITH TNEMEC SERIES N69-COLOR HI-BUILD EPOXOLINE II PAINT (OR EQUAL, SEE SECTION 09 90 00), COLOR SHALL BE SIMILAR TO TNEMEC FAIRWAY GREEN.
  - WET WELL AND VALVE VAULT FLAT SLAB CONCRETE TOPS SHALL HAVE A H-20 RATING.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR EQUIPMENT ORIENTATION, COORDINATING WITH THE ENGINEER AND OWNER.
  - DIMENSIONS FOR HATCH AND LID LOCATIONS ARE PROVIDED FOR REFERENCE. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE LOCATIONS WITH INSTALLED PIPE, VALVES, AND PUMP LOCATIONS.
  - CONTRACTOR SHALL VERIFY GRADE ELEVATIONS AND INVERTS OF EXISTING SEWERS AND STRUCTURES. GRADES AND ELEVATIONS ARE BASED ON AVAILABLE DRAWINGS DURING DESIGN.
  - PROVIDE WATER TIGHT JOINTS BY USING LINK SEAL TO SEAL PIPING THROUGH SQUARE STRUCTURES, AND RESILIENT CONNECTORS THAT CONFORM TO ASTM C-923 FOR ROUND STRUCTURES.
  - PRECAST FABRICATED CONCRETE STRUCTURES SHALL HAVE JOINTS SEALED WITH BUTYL RUBBER SEALANT ROPE AND EXTERIOR JOINT SEALED WITH MAC WRAP.
  - USE OF PUMPS SUPPLIED UNDER THIS CONTRACT FOR THE PURPOSE OF DEWATERING DURING CONSTRUCTION SHALL NOT BE PERMITTED.
  - FUTURE SCRUBBER PROVIDED FOR REFERENCE. THE SCRUBBER WILL BE INSTALLED BY THE VILLAGE AT A LATER DATE, AND WILL REQUIRE A MINIMUM 30" CLEARANCE AROUND THE ENTIRE DRUM. THE SCRUBBER WILL BE CONNECTED TO THE 4" VENT PIPE.

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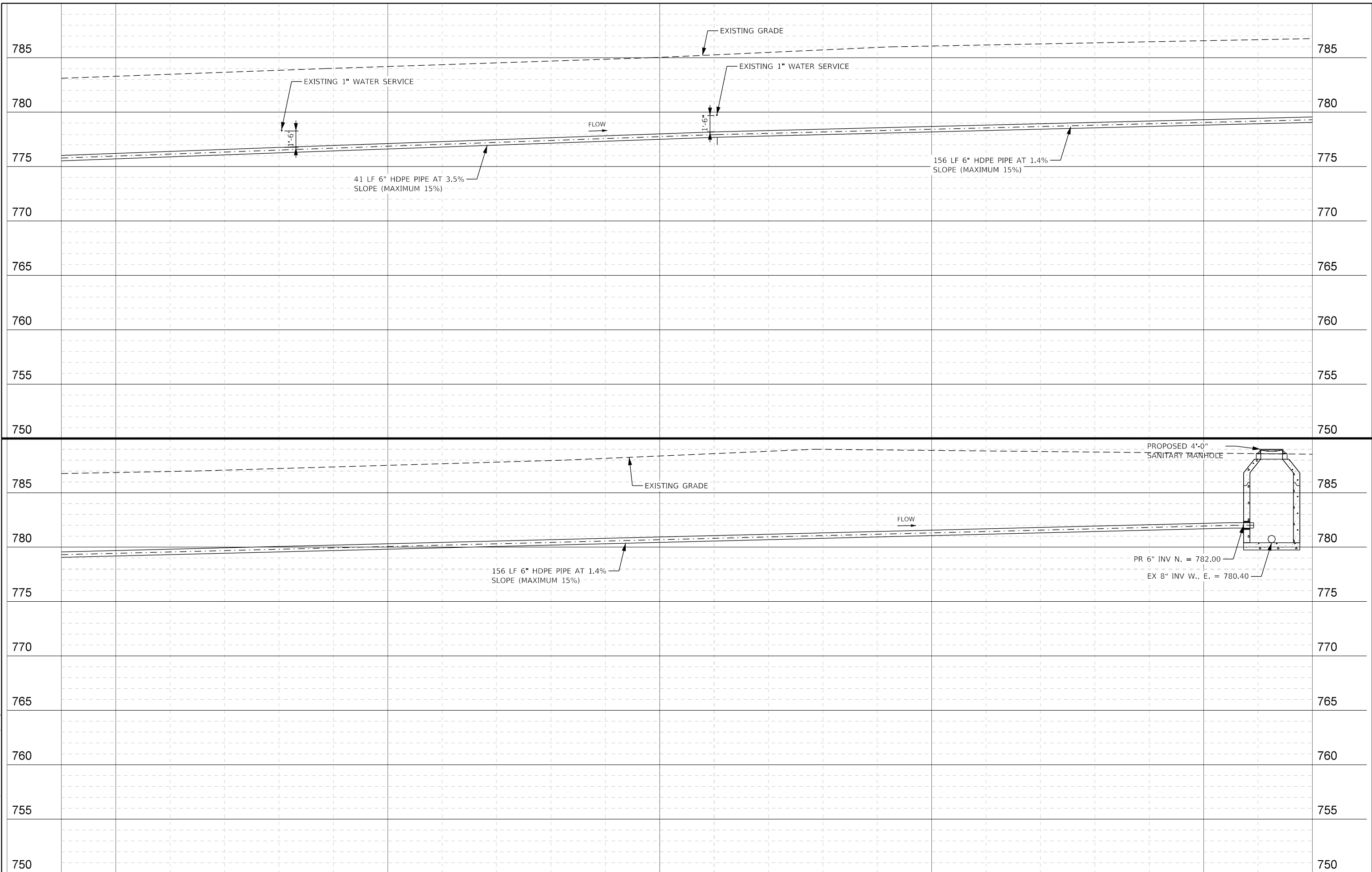
VILLAGE OF HOFFMAN ESTATES  
 1900 HASSELL ROAD  
 HOFFMAN ESTATES, IL 60169

ENLARGED LIFT STATION PLAN

SCALE: 1/4" = 1'-0" SHEET 1 OF 1 SHEETS STA. TO STA.

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	42	19
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

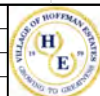




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**CiorbaGroup**  
 8725 W. Higgins Rd., Ste 600, Chicago, IL 60631  
 P 773.775.4009 | www.ciorba.com

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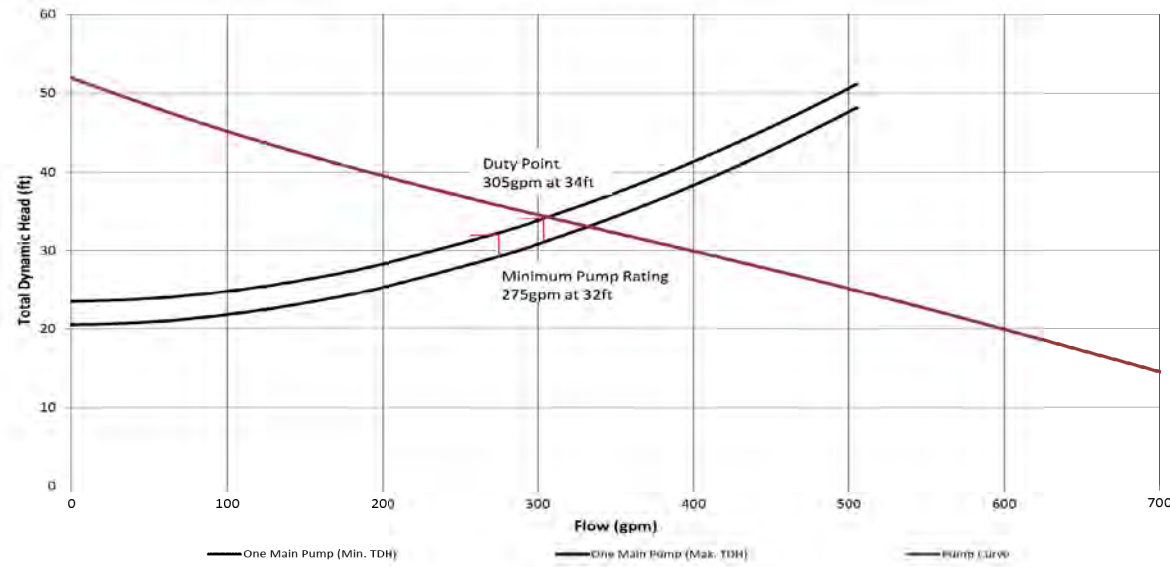
**VILLAGE OF HOFFMAN ESTATES**  
**1900 HASSELL ROAD**  
**HOFFMAN ESTATES, IL 60169**

**FORCEMAIN PROFILE**

SCALE: 1/8" = 1'-0" SHEET 2 OF 2 SHEETS STA. TO STA.

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	42	21
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

**Hampton Lift Station  
System Head & Pump Curves**



**NOTES:**

1. THE STATION WAS DESIGNED AROUND FLYGT'S N3102 PUMP. THIS INFORMATION IS PROVIDED FOR REFERENCE. THE CONTRACTOR SHALL VERIFY ANY CHANGES TO DESIGN AND/OR DRAWINGS THAT RESULT FROM THE FINAL PUMP INSTALLED.

**PROPOSED LIFT STATION OPERATION NOTES:**

**GENERAL:**

THE LIFT STATION WILL RECEIVE GRAVITY FLOW FROM THE ADJACENT SUBDIVISION THROUGH VARIOUS SANITARY SEWER PIPES CONNECTED TO THE WET WELL. A SUBMERSIBLE TYPE PUMP WILL PUMP SEWAGE FLOW THROUGH A 6" FORCEMAIN TO A NEW MANHOLE LOCATED ALONG HILLCREST BOULEVARD.

**PUMP OPERATION:**

THE LIFT STATION WILL OPERATE BY MEANS OF A PUMP CONTROLLER, LEVEL MANAGEMENT SYSTEM, AND PLC TO ENERGIZE AND ALTERNATE PUMPS. THE PLC SHALL ALTERNATE PUMPS UPON EACH "ON" CYCLE.

**ONLY ONE PUMP SHALL OPERATE AT A TIME. THE SECOND PUMP WILL SERVE AS A BACK-UP PUMP. THE PLC WILL BE PROGRAMMED TO LOCK-OUT OPERATING TWO PUMPS AT ONE TIME.**

**LEVEL MANAGEMENT AND SETTINGS:**

THE LEVEL MANAGEMENT SYSTEM SHALL CONSIST OF ONE SUBMERSIBLE LEVEL TRANSDUCER AS THE PRIMARY WATER LEVEL SENSOR AND MECHANICAL FLOATS (IN THE QUANTITY SHOWN) AS A BACK-UP. THE PUMPS WILL BE ENERGIZED AND DE-ENERGIZED AT SET POINT ELEVATIONS SHOWN ON THE LEVEL MANAGEMENT DETAIL AND PLANS.

AS THE WATER LEVEL WITHIN THE WET WELL STRUCTURE RISES TO THE "LEAD PUMP ON" ELEVATION, THE PUMP CONTROLLER SHALL ENERGIZE THE LEAD PUMP. THE PUMP SHALL OPERATE UNTIL THE WATER LEVEL LOWERS DOWN TO THE "PUMPS OFF" ELEVATION, AND THEN DE-ENERGIZE. UPON THE NEXT "PUMP ON" OPERATION, THE PLC SHALL ENERGIZE THE LAG PUMP, ALTERNATING BETWEEN PUMPS.

IF THE WATER LEVEL CONTINUES TO RISE WITHIN THE WET WELL, REACHING THE "HIGH-WATER LEVEL" ELEVATION WHILE THE LEAD PUMP IS OPERATING, THE STATION SHALL GO INTO FLOAT MODE (SEE BELOW). A HIGH-WATER LEVEL ALARM SHALL ONLY BE SENT TO THE VILLAGE IF THE HIGH-WATER FLOAT REMAINS TIPPED FOR MORE THAN TWO MINUTES.

IF THE WATER LEVEL DROPS DOWN TO THE "LOW WATER LEVEL ALARM" ELEVATION WHILE THE PUMP IS OPERATING, AND THE FLOAT REMAINS IN THE TIPPED POSITION FOR MORE THAN TWO MINUTES THEN A LOW WATER LEVEL ALARM SHALL BE SENT TO THE VILLAGE.

**FLOAT MODE:**

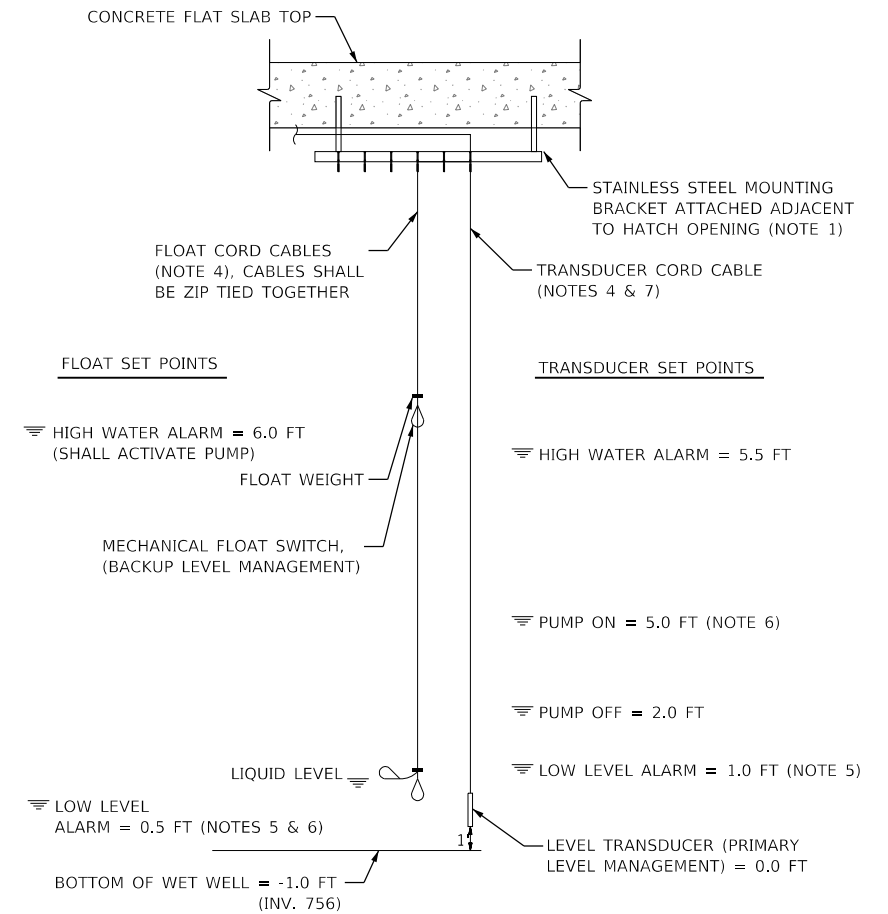
IF THE WATER LEVEL WITHIN THE WET WELL REACHES THE "HIGH-WATER LEVEL ALARM" ELEVATION, AN ALARM SHALL BE SENT TO THE VILLAGE AND THE STATION SHALL GO INTO FLOAT MODE.

THE STATION SHALL OPERATE IN FLOAT MODE UNTIL THE VILLAGE RESTS THE STATION BY PUSHING THE "FLOAT BACKUP RESET" BUTTON MOUNTED IN THE CONTROLLER, OR REMOTELY THROUGH THE VILLAGE'S SCADA SYSTEM.

**\*\*FLOAT MODE ALARM SHALL ONLY TRIGGER AFTER AN ALARM CONDITION LASTS MORE THAN TWO MINUTES. ONLY ONE ALARM SHALL BE SENT WHILE THE STATION OPERATES IN FLOAT MODE\*\***

**BACKUP POWER:**

A PERMANENT DIESEL GENERATOR WILL BE LOCATED ON SITE.

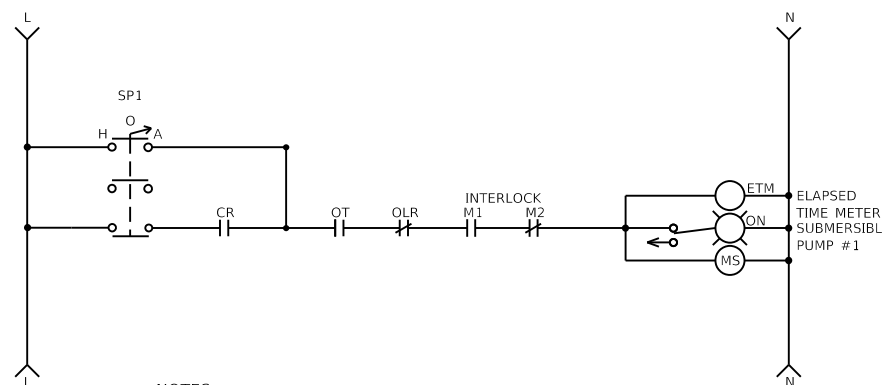


**LEVEL MANAGEMENT NOTES:**

1. CONTRACTOR SHALL INSTALL TRANSDUCER/FLOAT MOUNTING BRACKET IN A READILY ACCESSIBLE LOCATION ADJACENT TO THE PROPOSED ACCESS HATCH OWNER/OPERATOR SHALL NOT BE REQUIRED TO USE SPECIAL TOOLS, OR HAVE TO ENTER THE STRUCTURE TO ACCESS TRANSDUCER/FLOAT CABLES.
2. CONTRACTOR SHALL FURNISH AND INSTALL SPECIFIED NUMBER OF TRANSDUCERS AND FLOATS AS SHOWN ON THE PLANS.
3. THE PRIMARY LEVEL MANAGEMENT SHALL CONSIST OF A PRESSURE TRANSDUCER WITH A MIN. 0-35 FT. RANGE. THE BACK-UP SYSTEM SHALL CONSIST OF A MECHANICAL FLOAT SWITCH SYSTEM.
4. CONTRACTOR SHALL COORDINATE CABLE LENGTHS WITH TRANSDUCER AND FLOAT MANUFACTURERS. CABLES SHALL BE LONG ENOUGH TO TERMINATE WITHIN THE PROPOSED PUMP CABLE JUNCTION BOXES, PLUS AN ADDITIONAL 10 FT OF CABLE COILED UP WITHIN THE WET WELL STRUCTURE.
5. SEE SYSTEM OPERATIONAL NOTES FOR PUMP OPERATION/ALARMS WHEN WATER LEVEL REACHES LOW WATER ELEVATION IN WET WELL.
6. FLOAT SET POINTS ARE BASED ON THE TRANSDUCER ELEVATION = 0.0 FT.
7. CONTRACTOR SHALL FURNISH STAINLESS STEEL CARRIER CABLE IN LIEU OF STAINLESS STEEL CHAIN.
8. TRANSDUCER SHALL BE AMETEK 575PB SERIES WITH PROTECTED FLUSH DIAPHRAGM.

**LEVEL MANAGEMENT DETAIL**

N.T.S.



**NOTES:**

1. SUBMERSIBLE SEWAGE PUMPS SHALL BE INTERLOCKED THROUGH PROGRAMMING IN THE PUMP CONTROL PANEL TO ENSURE THAT ONLY ONE PUMP OPERATES AT A TIME. EXACT LADDER LOGIC SHALL BE COORDINATED DURING SHOP DRAWING REVIEW. DETAIL IS PROVIDED FOR REFERENCE ONLY.

**INTERLOCK CONTROL LOGIC DETAIL**

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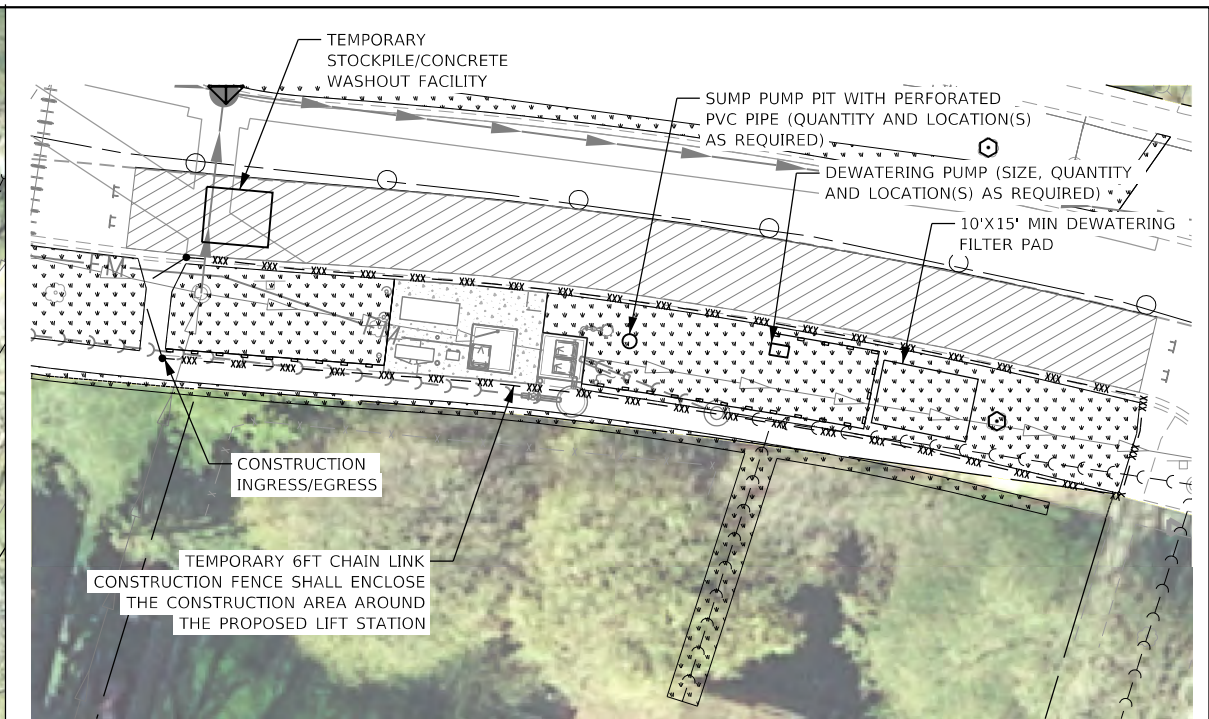
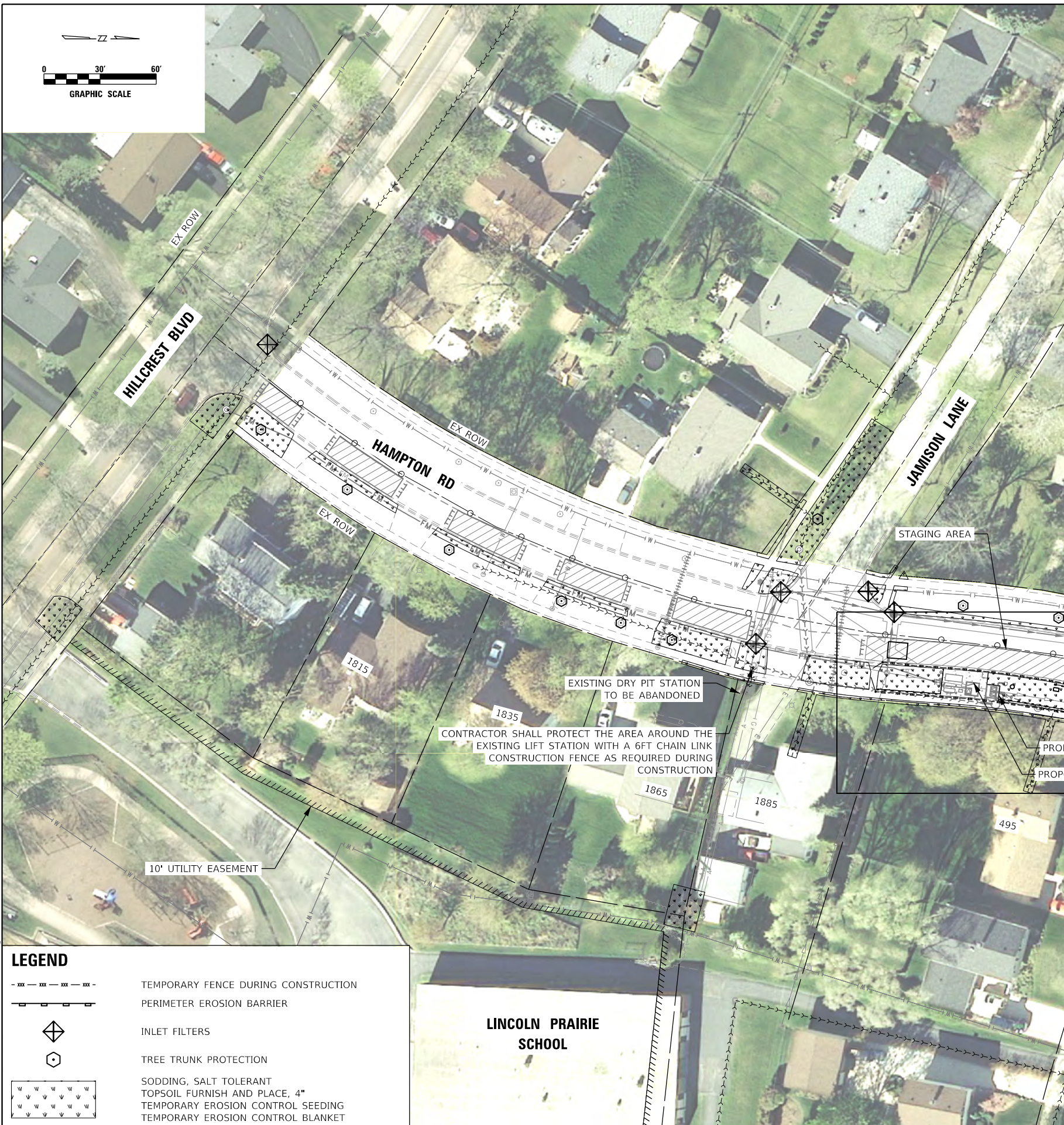
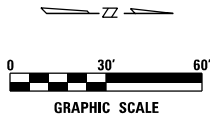


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**VILLAGE OF HOFFMAN ESTATES  
 1900 HASSELL ROAD  
 HOFFMAN ESTATES, IL 60169**

PUMP OPERATION AND CONTROL DETAILS		RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: N.T.S.	SHEET 1 OF 1 SHEETS	STA.	TO STA.	ILLINOIS	42	22
				CONTRACT NO.		
				ILLINOIS FED. AID PROJECT		



**ENLARGED VIEW**

**LEGEND**

	TEMPORARY FENCE DURING CONSTRUCTION
	PERIMETER EROSION BARRIER
	INLET FILTERS
	TREE TRUNK PROTECTION
	SODDING, SALT TOLERANT TOPSOIL FURNISH AND PLACE, 4" TEMPORARY EROSION CONTROL SEEDING
	TEMPORARY EROSION CONTROL BLANKET

EXISTING DRY PIT STATION TO BE ABANDONED

CONTRACTOR SHALL PROTECT THE AREA AROUND THE EXISTING LIFT STATION WITH A 6FT CHAIN LINK CONSTRUCTION FENCE AS REQUIRED DURING CONSTRUCTION

PROPOSED WET WELL

PROPOSED VALVE VAULT

- NOTES:**
1. THE PLAN IS CONCEPTUAL AND SHOWS THE MINIMUM SOIL EROSION AND RESTORATION REQUIREMENTS REQUIRED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ALL DAMAGED LANDSCAPE AREAS TOP SOIL AND SOD.
  2. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR PROVIDING EROSION CONTROL MEASURES TO CONSTRUCTION AREAS OUTSIDE OF THOSE SHOWN ON THIS PLAN. ALL WORKS SHALL BE PERFORMED IN ACCORDANCE WITH MWRDGC AND IEPA REQUIREMENTS, AND INCIDENTAL TO THE COST OF THE PROJECT.

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**VILLAGE OF HOFFMAN ESTATES**  
 1900 HASSELL ROAD  
 HOFFMAN ESTATES, IL 60169

<b>EROSION CONTROL AND RESTORATION PLAN</b>	
SCALE: 1" = 30'	SHEET 1 OF 1 SHEETS STA. TO STA.

RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	42	23
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



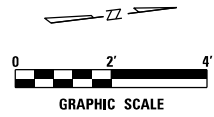
**CONDUIT AND CABLE SCHEDULE**

ID	DESCRIPTION	FROM	TO	CONDUIT			WIRE OR CABLE (IN EACH CONDUIT)			
				QTY	SIZE	TYPE	POWER	CONTROL/ INSTRUMENTATION	GROUND	WIRE TYPE
1	ELECTRIC SERVICE	COM ED WOOD POLE	CE METER PEDESTAL	1	2 1/2"	RGS	4-1/C #2	---	---	XLP-TYPE USE (NOTE 6)
2	ELECTRIC SERVICE	CE METER PEDESTAL	CONTROLLER CABINET	1	2 1/2"	RGS	4-1/C #2	---	1/C #6	XLP-TYPE USE
3	GENERATOR - POWER	ATS	GENERATOR	1	2 1/2"	RGS	4-1/C #2	---	1/C #6	XLP-TYPE USE
4		GENERATOR	ATS	1	2 1/2"	RGS	4-1/C #2	---	1/C #6	XLP-TYPE USE (NOTE 5)
5	GENERATOR - CONTROL	GENERATOR	ATS	1	1"	RGS	---	8-1/C #14 & 1/C # CAT 5	---	NOTE 2
6	GENERATOR - BATTERY CHARGER	GENERATOR	LIGHTING PANEL	1	1"	RGS	1/C #10, 1/C #10 NEUTRAL	---	1/C #10	XHHW/XHHWN
7	GENERATOR - ENGINE COOLANT HEATER	GENERATOR	LIGHTING PANEL	1	1"	RGS	1/C #10, 1/C #10 NEUTRAL	---	1/C #10	XHHW/XHHWN
8	PUMP #1 - CORD CABLE (POWER AND CONTROL)	PUMP	VENTED JUNCTION BOX	1	2"	RGS	MANUFACTURER'S PUMP POWER AND CONTROL CABLES			
9	PUMP #1 - POWER	VENTED JUNCTION BOX	PUMP CONTROLLER	1	2"	PVC	3-1/C #10	---	1/C #10	XHHW/XHHWN
10	PUMP #2 - CORD CABLE (POWER AND CONTROL)	PUMP	VENTED JUNCTION BOX	1	2"	RGS	MANUFACTURER'S PUMP POWER AND CONTROL CABLES			
11	PUMP #2 - POWER	VENTED JUNCTION BOX	PUMP CONTROLLER	1	2"	PVC	3-1/C #10	---	1/C #10	XHHW/XHHWN
12	PUMP #1 & #2 - CONTROL CABLES	VENTED JUNCTION BOX	PUMP CONTROLLER	1	1"	PVC	---	8-1/C #14	---	NOTE 2
13	STRUCTURE GROUND	VENTED JUNCTION BOX	WET WELL	1	1"	RGS	---	---	1/C #8	XLP-TYPE USE (SOLID)
14	WET WELL - TRANSDUCER	WET WELL	VENTED JUNCTION BOX	1	1"	RGS	---	MANUFACTURER'S CABLE	---	---
15		VENTED JUNCTION BOX	PUMP CONTROLLER	1	1"	PVC	---	4-1/C #14	---	NOTE 2
16	WET WELL - FLOATS	WET WELL	VENTED JUNCTION BOX	1	1"	RGS	---	MANUFACTURER'S CABLE	---	---
17		VENTED JUNCTION BOX	PUMP CONTROLLER	1	1"	PVC	---	6-1/C #14	---	XHHW/XHHWN
18	VALVE VAULT - FLOAT	VALVE VAULT	VENTED JUNCTION BOX	1	1"	RGS	---	MANUFACTURER'S CABLE	---	---
19	VALVE VAULT - SUMP PUMP		PUMP CONTROLLER	1	1"	RGS	1/C #10, 1/C #10 NEUTRAL	---	1/C #10	XHHW/XHHWN
20	VALVE VAULT - LIGHTS		PUMP CONTROLLER	1	1"	RGS	1/C #10, 1/C #10 NEUTRAL	---	1/C #10	XHHW/XHHWN
21	VALVE VAULT - FUTURE DEHUMIDIFIER/HEATER		PUMP CONTROLLER	1	1"	RGS	1/C #10, 1/C #10 NEUTRAL	---	1/C #10	XHHW/XHHWN
22	SPARE	WET WELL	VENTED JUNCTION BOX	1	2"	RGS	1/2" POLYESTER FIBER PULL TAPE			CAP WATERTIGHT & RECORD LOCATION
23		CONTROLLER CABINET	AS SHOWN	1	2"	RGS <sup>3</sup>	1/2" POLYESTER FIBER PULL TAPE			CAP WATERTIGHT & RECORD LOCATION
24		CONTROLLER CABINET	AS SHOWN	1	2"	PVC	1/2" POLYESTER FIBER PULL TAPE			CAP WATERTIGHT & RECORD LOCATION
25	INTRUSION ALARM	WET WELL	VENTED JUNCTION BOX	1	1"	RGS	---	4-1/C #14	---	XHHW/XHHWN
26		VENTED JUNCTION BOX	PUMP CONTROLLER	1	1"	RGS	---	6-1/C #14	---	XHHW/XHHWN
27	CATHODIC PROTECTION	VALVE VAULT	VENTED JUNCTION BOX	1	1"	RGS	---	2-1/C #14	---	XHHW/XHHWN
28		MAGNESIUM ANODE	TESTING PORT	-	-	-	1/C #10	---	---	XLP-TYPE USE
29	GROUNDING ELECTRODE SYSTEM	CONTROLLER CABINET	GROUND ELECTRODE SYSTEM	1	1"	PVC <sup>2</sup>	---	---	1/C #8	XLP-TYPE USE (SOLID)
30	TRACER WIRE	ACCESS POINT	ACCESS POINT	-	-	-	---	---	1/C #10	COPPERHEAD CCS TRACER WIRE (NOTE 7)

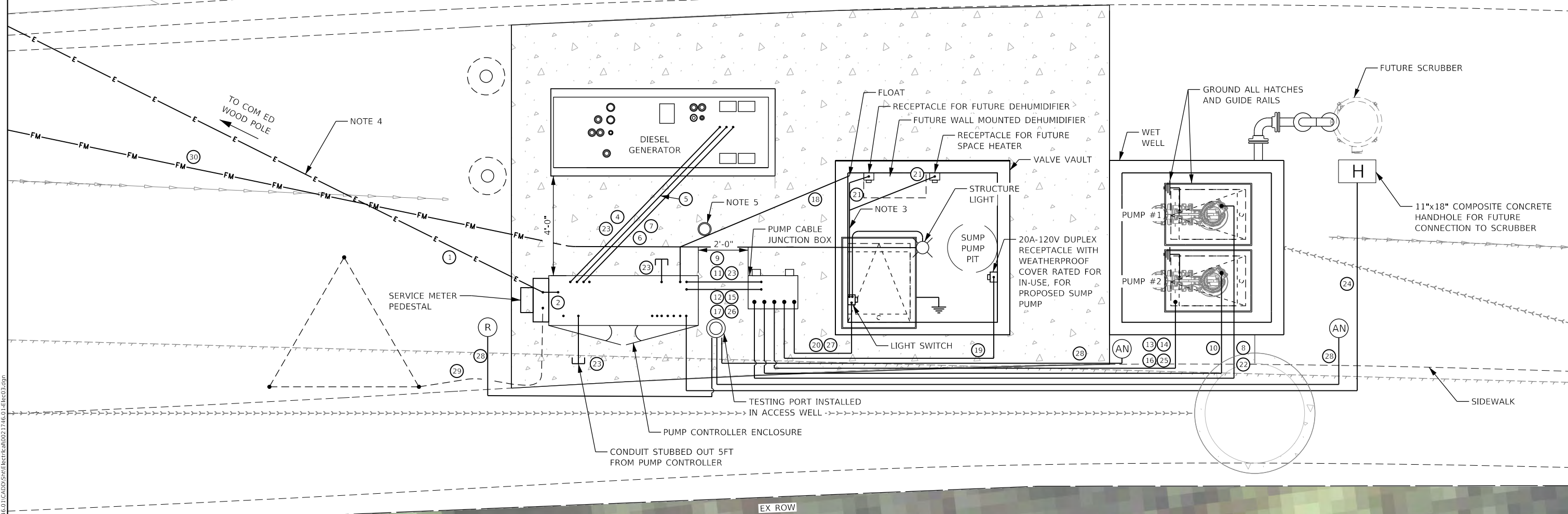
- NOTES:
- EXISTING CONDUITS ARE HIGHLIGHTED IN GRAY. CONTACTOR SHALL LOCATED, INTERCEPT AND CONNECT PROPOSED CONDUITS WITH MANUFACTURER APPROVED WATERTIGHT FITTINGS/COUPLINGS.
  - CONTROL CABLE SHALL CONSIST OF TINNED COPPER, SHIELDED CONDUCTORS, WITH PVC INSULATED OUTER JACKET, AND RATED FOR OUTDOOR & DIRECT BURIAL USE.
  - EXTEND CONDUIT OUT 5 FEET ONLY.
  - LEVEL SENSORS CONNECTED TO PUMP STARTERS SHALL BE ROUTED IN SEPARATE CONDUITS THEN THOSE CARRYING POWER CONDUCTORS.
  - GROUND CONDUCTOR SHALL BE CONNECTED TO GROUND LUG ON THE RECEPTACLE ASSEMBLY.
  - SERVICE SHALL BE BONDED AT COM ED METER. IF NEUTRAL AND GROUND LUGS ARE NOT BONDED THEN THE CONTRACTOR SHALL BOND INSIDE THE CABINET. THE SERVICE NEUTRAL SHALL ONLY BE BONDED AT ONE LOCATION.
  - TRACER WIRE SHALL BE SOLOSHOT EXTRA-HIGH STRENGTH (1045 SERIES) WITH A GREEN HDPE INSULATION COLOR.

**NOTES:**

- STRUCTURE LIGHTS IN VALVE VAULT SHALL BE CLASS 1, DIV 1, EXPLOSION PROOF RATED, CEILING MOUNTED, LED LIGHT WITH 1" HUBS (EATON MODEL NO. EVLEDCX3C701 OR APPROVED EQUAL).
- LIGHT SWITCH SHALL BE CLASS 1, DIV 1 RATED, EXPLOSION PROOF ON/OFF SWITCH (LARSON ELECTRONICS EPS-25A OR APPROVED EQUAL).
- EXPLOSION-PROOF CONDUIT SEALING FITTINGS (APPLETON EYS) SHALL BE PROVIDED, UNLESS THE CONDUIT AND CABLES ARE ROUTED TO THE PUMP CABLE JUNCTION BOX TO BE VENTED.
- ELECTRICAL SERVICE CONDUIT INSTALLED BELOW HAMPTON ROAD SHALL BE INSTALLED 48" BELOW GRADE, DUE TO FUTURE ROADWAY IMPROVEMENT PROJECT.
- TRACER WIRE ACCESS POINT (SEE SHEET 27 FOR DETAIL). ACCESS POINTS SHALL BE INSTALLED AT BOTH ENDS OF THE FORCE MAIN.
- TRACER WIRE SHALL BE SECURED TO THE HDPE FORCEMAIN (SEE SHEET 27 FOR DETAIL).



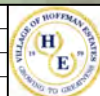
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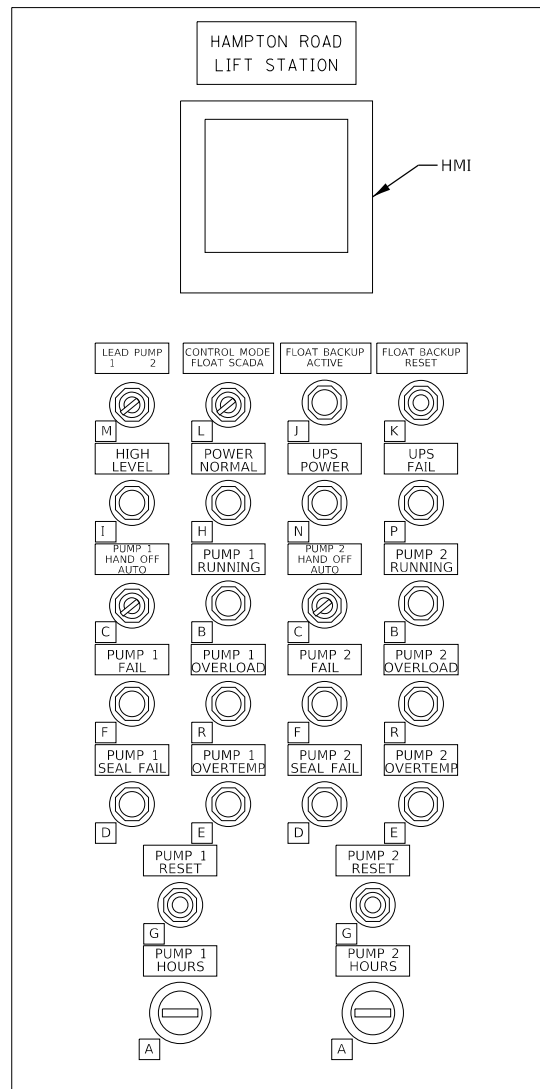
**VILLAGE OF HOFFMAN ESTATES**  
**1900 HASSELL ROAD**  
**HOFFMAN ESTATES, IL 60169**

**CONDUIT AND CABLE PLAN**

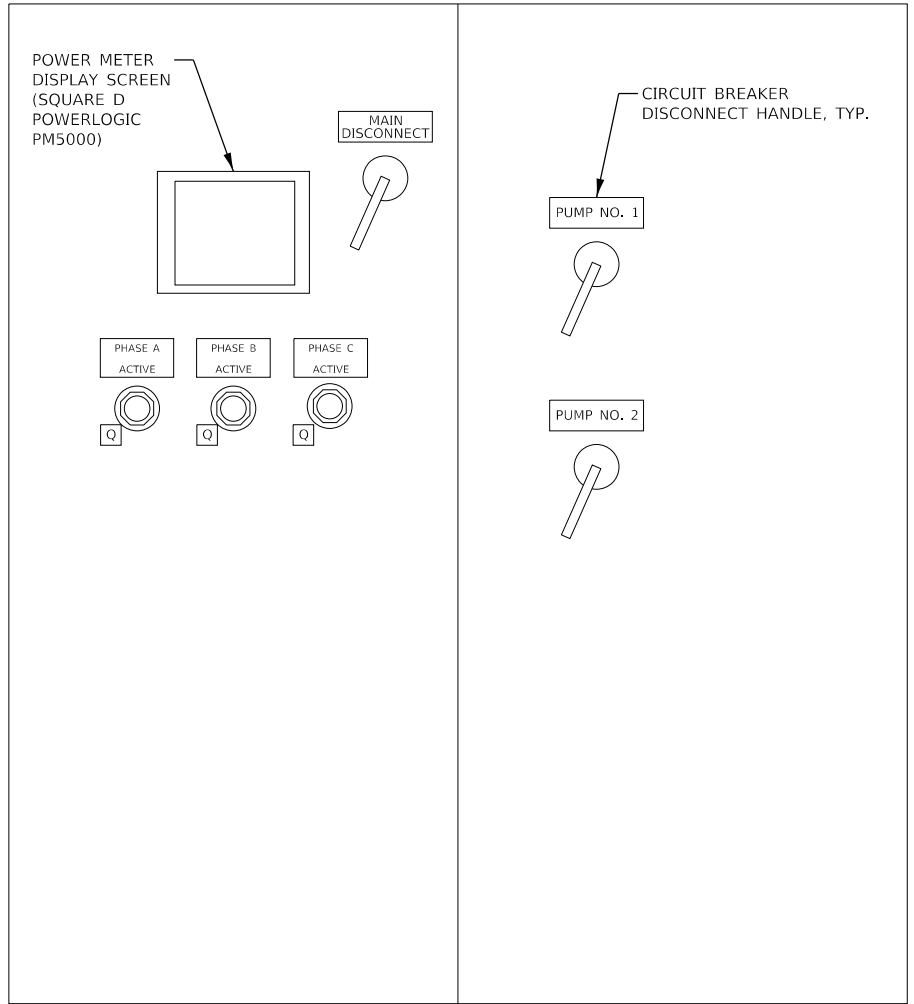
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RTG.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	42	25
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

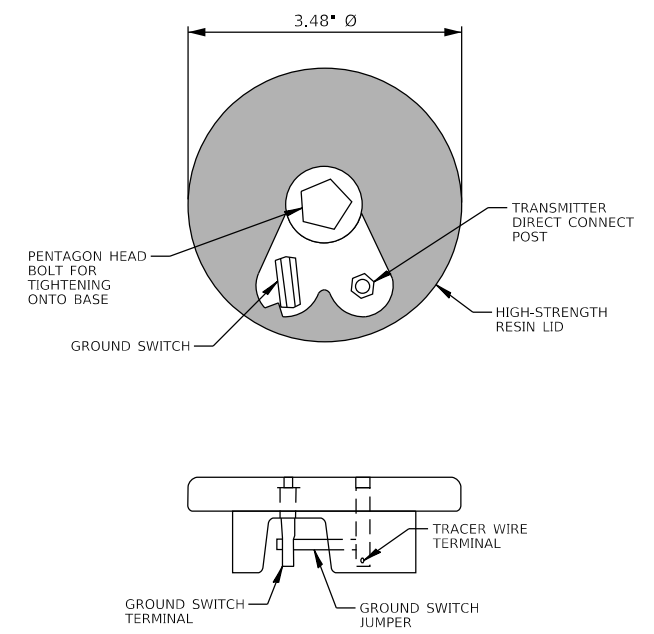




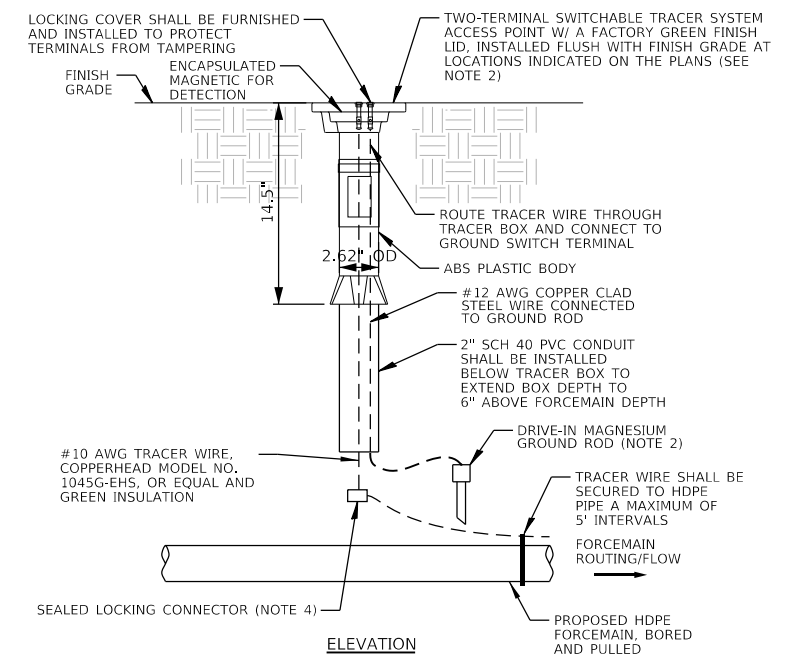
**CONTROL INTERFACE**



**POWER DEADFRONT PANEL**



**PLAN VIEW**



**ELEVATION**

- NOTES:**
1. TERMINAL ACCESS POINT SHALL BE INSTALLED AT EACH END OF THE FORCEMAIN.
  2. ACCESS POINT SHALL BE COPPERHEAD TWO TERMINAL SWITCHABLE LID SNAKE PIT MODEL NO. LD14G2T-SW (OR EQUAL) IN GRASS AREAS AND COPPERHEAD MODEL NO. CD14G2T-SW (OR EQUAL) IN CONCRETE/DRIVEWAY AREAS.
  3. TRACER WIRE SYSTEM SHALL BE INSTALLED AS SINGLE CONTINUOUS WIRE, NO SPLICING SHALL BE ALLOWED.
  4. SERVICE CONNECTOR SHALL BE COPPERHEAD MODEL NO. 3WB-01 (OR EQUAL) WHEN INSTALLING AN ACCESS POINT.
  5. FOR ACCESS POINT INSTALLED WITHIN CONCRETE, THE COLLAR OF THE ACCESS POINT SHALL BE SET LEVEL WITH THE CONCRETE, AND THE COVER TAPED WITH RED DUCT TAPE (3M MODEL NO. 3960) TO PROTECT TERMINALS, CONTRACTOR SHALL REMOVE TAPE ONCE CONSTRUCTION IS COMPLETE.
  6. CONTRACTOR SHALL TEST THE SYSTEM DURING THE LIFT STATION STARTUP TO ENSURE THAT IT OPERATES PROPERLY.

**TRACER WIRE ACCESS POINT**  
N.T.S.

NAMEPLATE SCHEDULE					
ITEM	INDICATOR LIGHT	PUSH BUTTON	SELECTOR SWITCH	NAMEPLATE DESCRIPTION	NOTES
A	-	-	-	ELAPSED TIME METER	-
B	GREEN	-	-	PUMP RUN	PUSH TO TEST TYPE INDICATOR LIGHT
C	-	-	HOA	HAND-OFF-AUTO	-
D	AMBER	-	-	PUMP SEAL FAIL	PUSH TO TEST TYPE INDICATOR LIGHT
E	RED	-	-	PUMP OVERTEMP	PUSH TO TEST TYPE INDICATOR LIGHT
F	RED	-	-	PUMP FAIL	PUSH TO TEST TYPE INDICATOR LIGHT
G	-	BLACK	-	PUMP RESET	-
H	GREEN	-	-	NORMAL UTILITY CONNECTED	PUSH TO TEST TYPE INDICATOR LIGHT
I	RED	-	-	HIGH WATER LEVEL	PUSH TO TEST TYPE INDICATOR LIGHT
J	AMBER	-	-	FLOAT MODE ACTIVE	PUSH TO TEST TYPE INDICATOR LIGHT
K	-	BLACK	-	FLOAT MODE RESET	-
L	-	-	BLACK	FLOAT-SCADA	-
M	-	-	BLACK	BACKUP/LEAD PUMP SELECTION	1 OR 2
N	WHITE	-	-	UPS POWER	PUSH TO TEST TYPE INDICATOR LIGHT
P	RED	-	-	UPS FAILURE	PUSH TO TEST TYPE INDICATOR LIGHT
Q	GREEN	-	-	PHASE LOSS	PUSH TO TEST TYPE INDICATOR LIGHT
R	RED	-	-	PUMP OVERLOAD	PUSH TO TEST TYPE INDICATOR LIGHT

**PUMP CONTROLLER INTERIOR DETAILS**  
N.T.S.

- NOTES:**
1. ALL ALARM LIGHTS SHALL BE LED WITH PUSH-TO-TEST FEATURE.
  2. THE CONTROL INTERFACE IS THE MINIMUM REQUIRED NUMBER OF INDICATING LIGHTS, PUSH BUTTONS AND SELECTOR SWITCHES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY INDICATING LIGHTS, PUSH BUTTONS AND SELECTOR SWITCHES FOR THE EQUIPMENT INSTALLED. THIS DETAIL IS SCHEMATIC AND IS BASED ON EQUIPMENT MODELED DURING DESIGN.

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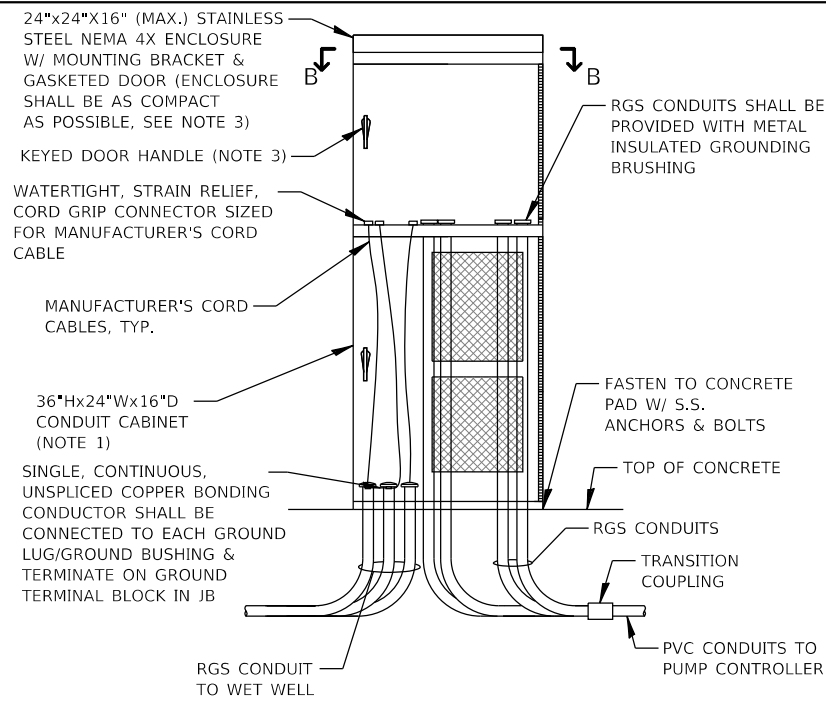
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	DATE - 3/20/2026	REVISED -



**VILLAGE OF HOFFMAN ESTATES**  
 1900 HASSELL ROAD  
 HOFFMAN ESTATES, IL 60169

<b>ELECTRICAL DETAILS</b>		RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: N.T.S.	SHEET 2 OF 3 SHEETS	STA.	TO STA.	ILLINOIS	42	27

CONTRACT NO.	
ILLINOIS FED. AID PROJECT	

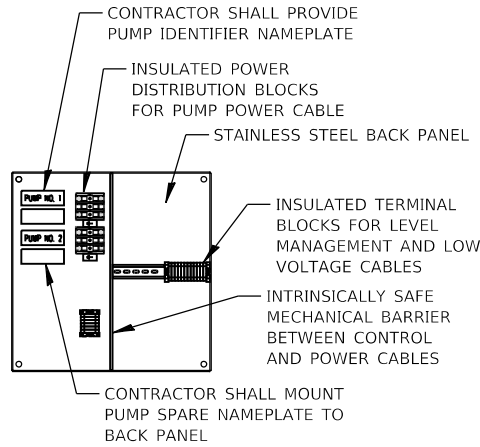


**NOTES:**

1. VENTILATION ENCLOSURE DOOR SHALL BE TYPE 304 STAINLESS STEEL WITH A DIAMOND PATTERN TO ALLOW FOR 75% OPEN VENTILATION AREA.
2. VENTILATION ENCLOSURE SHALL BE PROVIDED WITH A SOLID BACK PLATE, PROVISIONS FOR UNISTRUT SUPPORT AND REINFORCED DOUBLE STAINLESS STEEL PLATES FOR PAD MOUNTING. CONTRACTOR SHALL SEAL AROUND CABINET TO PREVENT BIRD/RODENT ENTRY.
3. TOP ENCLOSURE (JUNCTION BOX) SHALL BE PROVIDED WITH 3 POINT LATCHING MECHANISM WITH NYLON ROLLERS AT TOP AND BOTTOM. BOTH TOP AND BOTTOM ENCLOSURES SHALL BE PROVIDED WITH A STAINLESS STEEL DOOR HANDLE WITH PADLOCK PROVISIONS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE REQUIRED SIZE AND NUMBER OF TERMINAL BLOCKS, CORD GRIPS, CONDUITS, ETC. NECESSARY FOR PROPOSED DESIGN. THE ABOVE DETAIL IS SCHEMATIC IN NATURE AND DOES NOT DETAIL EXACT QUANTITIES AND SIZES OF PUMP POWER AND CONTROL CABLES AND CONDUITS (SEE CONDUIT AND CABLE PLAN).
5. ALL ENCLOSURES, CONDUITS & EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH NEC ARTICLE 250.

**VENTED PUMP CABLE JUNCTION BOX DETAIL**

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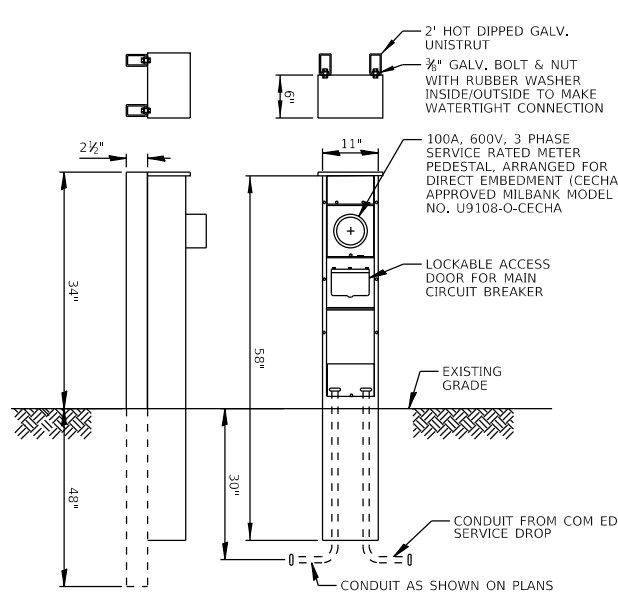


**BACK PANEL**

SCADA DATA POINT LIST								
IO TYPE	IO NO.	SLOT	DESCRIPTION	PROC VAR	STATE CODE 0	STATE CODE 1	RESET	NOTES
<b>GENERAL STATION</b>								
AI			ENCLOSURE TEMPERATURE	TEMPERATURE	-	-	-	-
DI			ENCLOSURE LOW TEMPERATURE	TEMPERATURE	NORMAL	LOW	-	-
AI			OUTSIDE TEMPERATURE	TEMPERATURE	LEVEL	-	-	-
DI			WET WELL INTRUSION ALARM	STATUS	NORMAL	ALARM	-	-
DI			VALVE VAULT INTRUSION ALARM	STATUS	NORMAL	ALARM	-	-
AI			TRANSDUCER	ELEVATION	LEVEL	-	-	-
DI			WET WELL HI WATER LEVEL FLOAT	ELEVATION	HI	NORMAL	MANUAL	START LEAD AND LAG PUMPS
DI			WET WELL LOW WATER LEVEL FLOAT	ELEVATION	LOW	NORMAL	MANUAL	STOP PUMPS UPON SENSING LOW WATER LEVEL
DI			VALVE VAULT HI WATER LEVEL FLOAT	ELEVATION	HI	NORMAL	MANUAL	ALARM ONLY
DI			SCADA POWER FAIL	STATUS	NORMAL	ALARM	-	-
DI			SCADA LOW UPS BATTERY	STATUS	NORMAL	-	-	-
DI			SCADA UPS FAIL	STATUS	NORMAL	ALARM	-	-
DI			RTU SURGE FAIL	STATUS	NORMAL	ALARM	-	-
DI			RTU POWER FAIL	STATUS	NORMAL	ALARM	-	-
DI			PHASE MONITOR	STATUS	NORMAL	FAILURE	-	-
DI			UTILITY POWER	STATUS	NORMAL	FAILURE	-	-
DI			PORTABLE GENERATOR CONNECTED	STATUS	RUNNING	-	-	-
DI			ENCLOSURE OPERATIONAL LIGHT	STATUS	NORMAL	ALARM	-	-
DO			LAG SELECTION	SELECTION	1-2	-	-	REMOTE SELECTION OF LAG PUMP
DO			FLOAT MODE RESET	SELECTION	TRANSDUCER	FLOAT	RESET	REMOTE FLOAT MODE RESET
DI			SPARE	STATUS	NORMAL	ALARM	-	-
DI			SPARE	STATUS	NORMAL	ALARM	-	-
DI			SPARE	STATUS	NORMAL	ALARM	-	-
DI			SPARE	STATUS	NORMAL	ALARM	-	-
<b>PUMP NO. 1 (P-1)</b>								
DI			PUMP RUNNING	STATUS	RUNNING	-	-	-
DI			PUMP AUTO	STATUS	NOT RUNNING	-	-	-
DI			PUMP FAIL	STATUS	NORMAL	ALARM	-	-
DO			HOA SELECTOR SWITCH "HAND"	STATUS	HAND	-	-	REMOTE OPERATION OF PUMPS
DO			HOA SELECTOR SWITCH "OFF"	STATUS	OFF	-	-	REMOTE OPERATION OF PUMPS
DO			HOA SELECTOR SWITCH "AUTO"	STATUS	ON	-	-	REMOTE OPERATION OF PUMPS
DI			PUMP SEAL FAIL ALARM	STATUS	NORMAL	ALARM	MANUAL	REQUIRE MANUAL RESET OF PUMPS (TO BE COORDINATED)
DI			PUMP THERMAL FAULT	STATUS	NORMAL	ALARM	MANUAL	REQUIRE MANUAL RESET OF PUMPS (TO BE COORDINATED)
DI			PUMP HIGH AMPERAGE	STATUS	NORMAL	HIGH	-	PUMP MANUFACTURER TO PROVIDE VALUE
DI			SPARE	STATUS	NORMAL	ALARM	-	-
<b>PUMP NO. 2 (P-2)</b>								
DI			PUMP RUNNING	STATUS	RUNNING	-	-	-
DI			PUMP AUTO	STATUS	NOT RUNNING	-	-	-
DI			PUMP FAIL	STATUS	NORMAL	ALARM	-	-
DO			HOA SELECTOR SWITCH "HAND"	STATUS	HAND	-	-	REMOTE OPERATION OF PUMPS
DO			HOA SELECTOR SWITCH "OFF"	STATUS	OFF	-	-	REMOTE OPERATION OF PUMPS
DO			HOA SELECTOR SWITCH "AUTO"	STATUS	ON	-	-	REMOTE OPERATION OF PUMPS
DI			PUMP SEAL FAIL ALARM	STATUS	NORMAL	ALARM	MANUAL	REQUIRE MANUAL RESET OF PUMPS (TO BE COORDINATED)
DI			PUMP THERMAL FAULT	STATUS	NORMAL	ALARM	MANUAL	REQUIRE MANUAL RESET OF PUMPS (TO BE COORDINATED)
DI			PUMP HIGH AMPERAGE	STATUS	NORMAL	HIGH	-	PUMP MANUFACTURER TO PROVIDE VALUE
DI			SPARE	STATUS	NORMAL	ALARM	-	-
<b>GENERATOR</b>								
DI			ATS FAULT	STATUS	NORMAL	ALARM	-	-
DI			ATS ON STANDBY	STATUS	NORMAL	ON	-	-
DI			ATS ON UTILITY	STATUS	NORMAL	ON	-	-
DO			GENERATOR FAULT	STATUS	NORMAL	FAILURE	-	-
DO			GENERATOR RUNNING	STATUS	RUNNING	ALARM	-	-
DO			GENERATOR EXERCISE	STATUS	RUNNING	ALARM	-	-

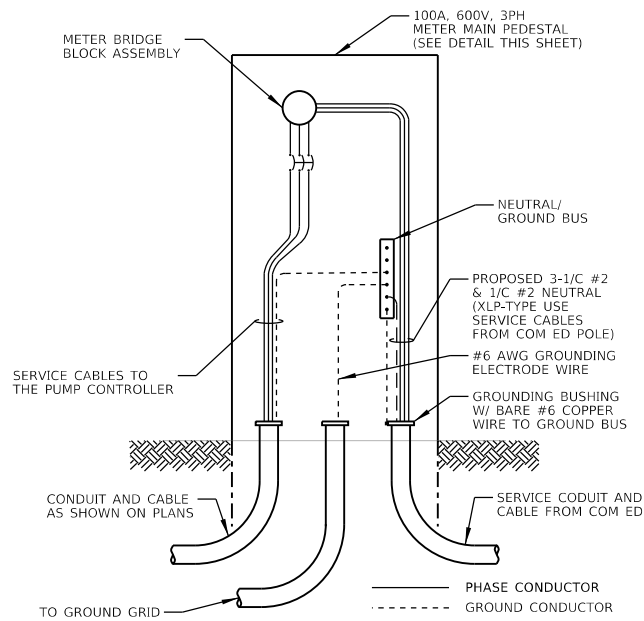
**NOTES:**

1. CONTRACTOR SHALL COORDINATE FINAL SCADA DATA POINT LIST WITH THE VILLAGE'S SCADA INTEGRATOR CONCENTRIC. THE ABOVE ARE THE MINIMUM ANTICIPATED DATA POINTS.



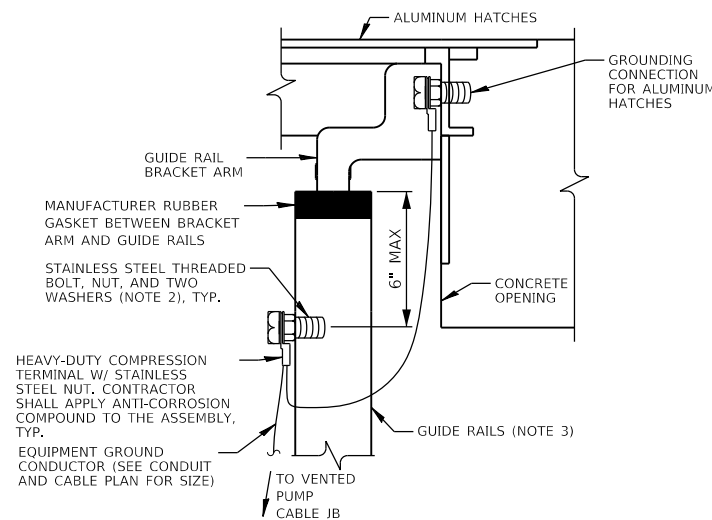
**SERVICE METER PEDESTAL**

N.T.S.



**SERVICE METER PEDESTAL WIRING DIAGRAM**

N.T.S.

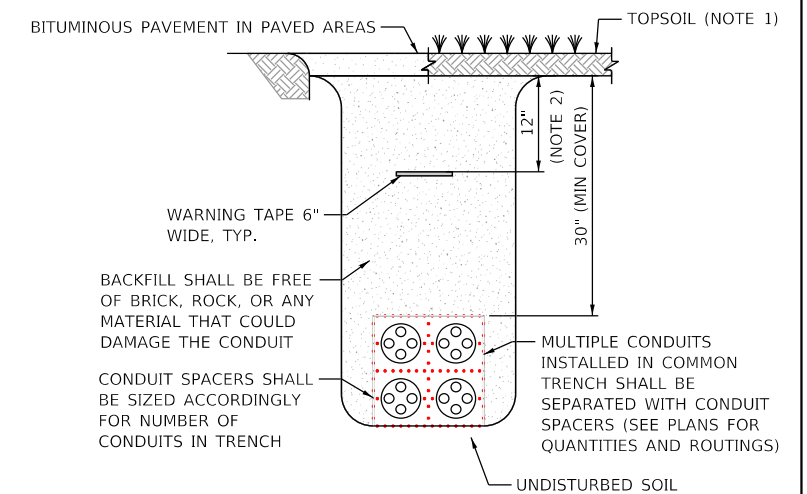


**NOTES:**

1. GROUND CONDUCTOR SHALL RUN CONTINUOUS. EQUIPMENT GROUNDING CONDUCTOR SHALL NOT BE CUT.
2. DETAIL IS CONCEPTUAL IN NATURE. CONTRACTOR SHALL LOCATE THE GROUND CONNECTION SO THAT IT DOES NOT OBSTRUCT PUMP REMOVAL.
3. EACH GUIDERAIL SHALL BE FACTORY DRILLED FOR GROUNDING BOLT. LOCATION SHALL BE ACCESSIBLE WITH HANDTOOLS FROM ABOVE GRADE.
4. ALL NON-CURRENT CARRYING METAL PARTS LOCATED WITHIN THE WET WELL SHALL BE BONDED TOGETHER TO MEET NEC REQUIREMENTS FOR BONDING IN HAZARDOUS (CLASSIFIED) LOCATIONS.

**BONDING HATCHES & PUMP GUIDE RAILS**

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**

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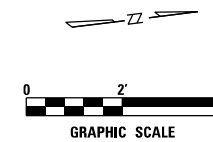
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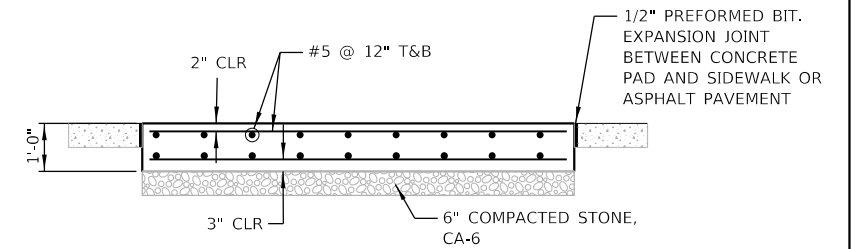
**VILLAGE OF HOFFMAN ESTATES**  
 1900 HASSELL ROAD  
 HOFFMAN ESTATES, IL 60169

<b>ELECTRICAL DETAILS</b>			
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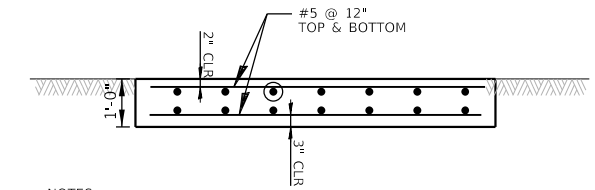
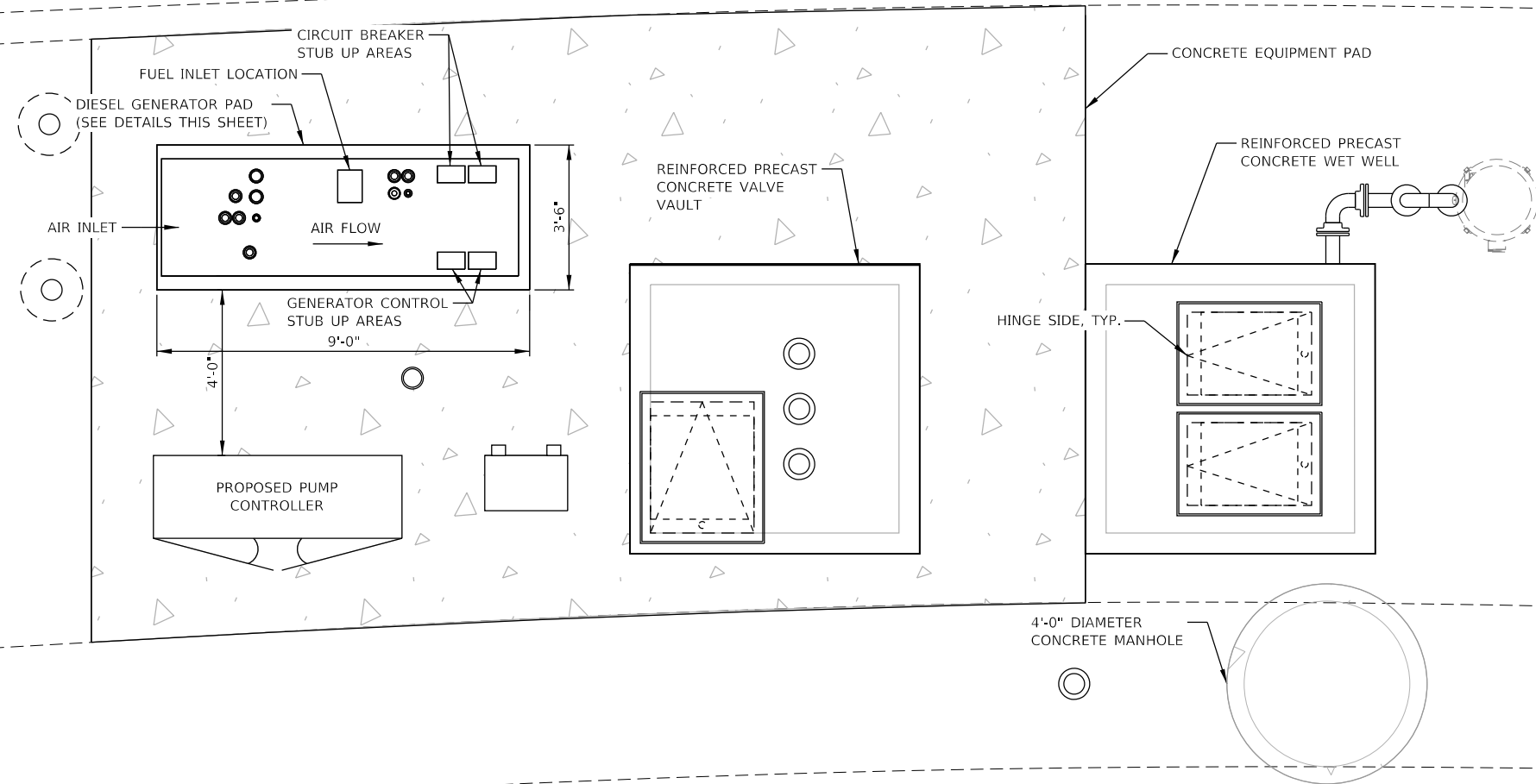
RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	42	28
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



HAMPTON RD



**GENERATOR PAD DETAIL**



- NOTES:
1. PROVIDE 1/2" EXPANSION JOINT AT LOCATIONS WHERE EQUIPMENT PAD IS ADJACENT TO CONCRETE/ASPHALT DRIVES, SIDEWALKS, AND CURB AND GUTTER.

**PROPOSED CONCRETE EQUIPMENT PAD**  
N.T.S.

EX ROW

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VILLAGE OF HOFFMAN ESTATES  
 1900 HASSELL ROAD  
 HOFFMAN ESTATES, IL 60169

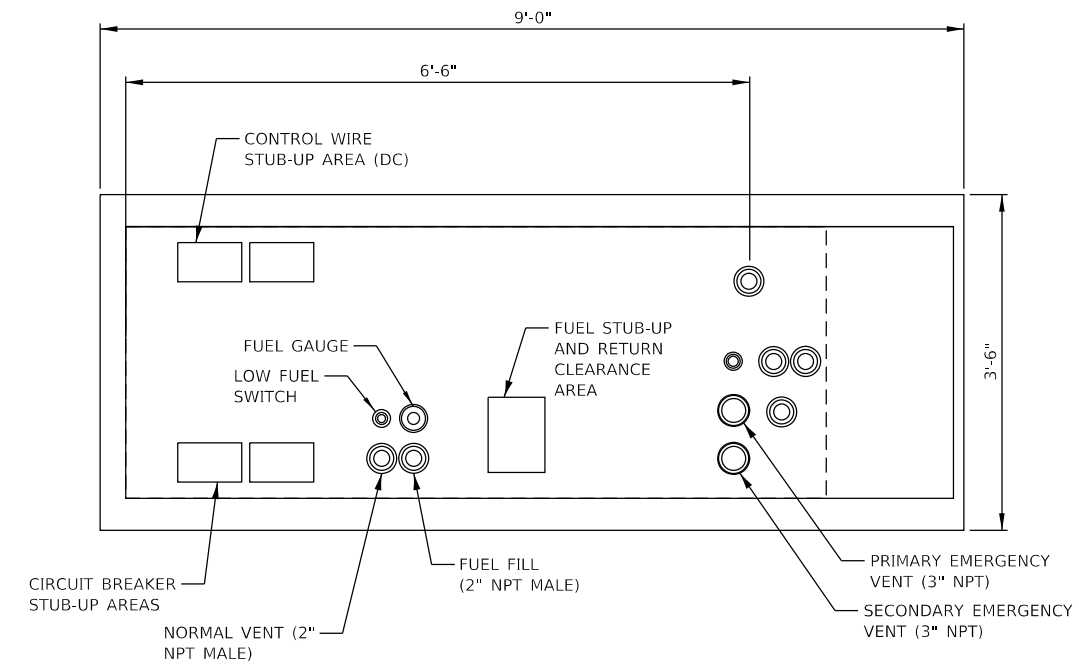
**GENERAL DETAILS (1 OF 2)**

SCALE: 1/2" = 1'-0" SHEET 1 OF 2 SHEETS STA. TO STA.

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	42	29
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

GENERATOR UNIT SCHEDULE									
UNIT SIZE	MAIN BKR SIZE	EXCITATION TYPE	FULL LOAD FUEL CONSUMPTION (GPH)	ENCLOSURE TYPE	MAX. AVE. NOISE LEVEL*	MODEL NO.	FUEL TANK SIZE	WEIGHT (LBS.)**	
35kW	100A	PMG	3.16	LEVEL 2 STEEL SOUND ATTENUATED	66 dBA AT 23 FEET	CUMMIN C36 D6	73 GAL	1,430	

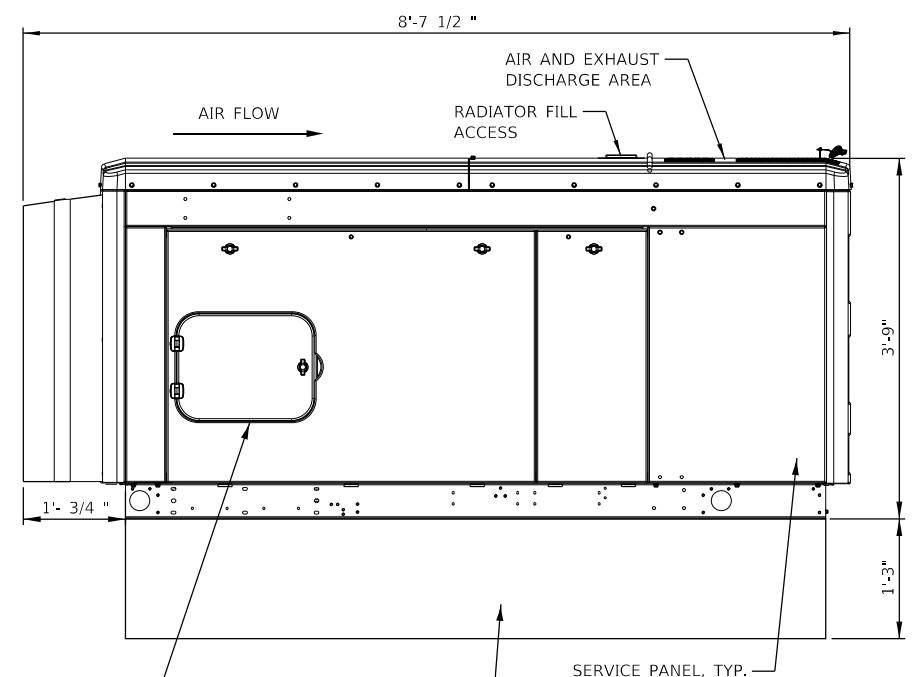
\* ENGINE/GENERATOR UNIT SHALL NOT EXCEED NOISE LEVEL WHEN FULLY LOADED.  
 \*\* WEIGHT OF THE GENERATOR INCLUDING SOUND ATTENUATED ENCLOSURE AND EMPTY DIESEL TANK.  
 \*\*\* ALTERNATOR SELECTED TO MINIMIZE VOLTAGE DIP TO LESS THAN 20% AND HARMONIC DISTORTION TO LESS THAN 15%.



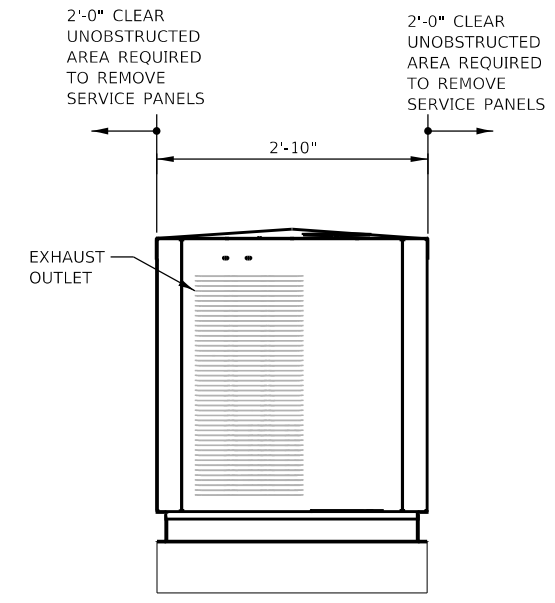
**PLAN VIEW**

**GENERATOR AND ENCLOSURE NOTES**

1. STANDBY 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.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR FILLING THE DIESEL FUEL TANK WITH 351 GALLONS OF DIESEL FUEL, OR THE MAXIMUM FILLABLE AMOUNT.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK WITH CUMMINS AND VERIFY ALL FINAL DIMENSIONS AND WEIGHTS.



**RIGHT ELEVATION VIEW**



**INTAKE ELEVATION VIEW**

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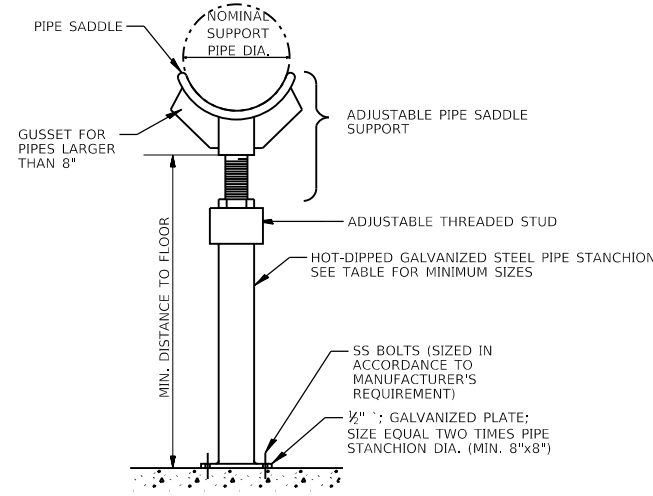
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**VILLAGE OF HOFFMAN ESTATES**  
**1900 HASSELL ROAD**  
**HOFFMAN ESTATES, IL 60169**

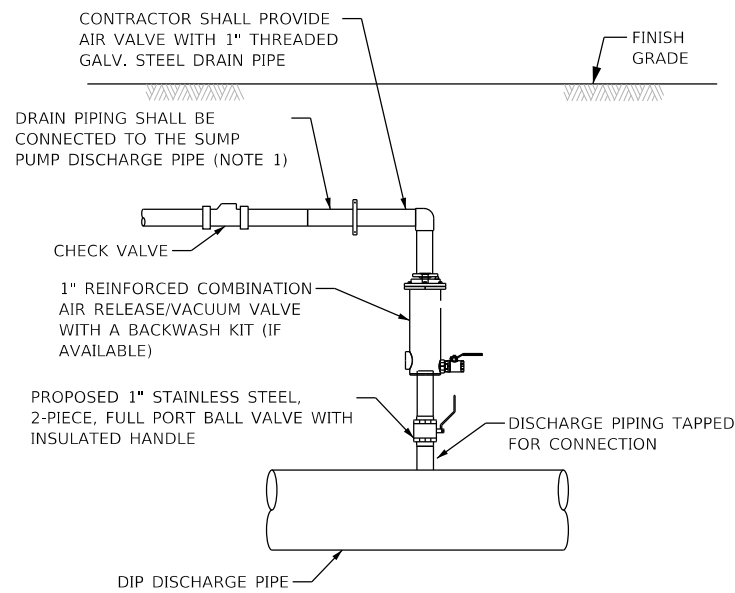
<b>GENERATOR DETAILS (2 OF 2)</b>			
SCALE: N.T.S.	SHEET 2 OF 2 SHEETS	STA.	TO STA.

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	42	30
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



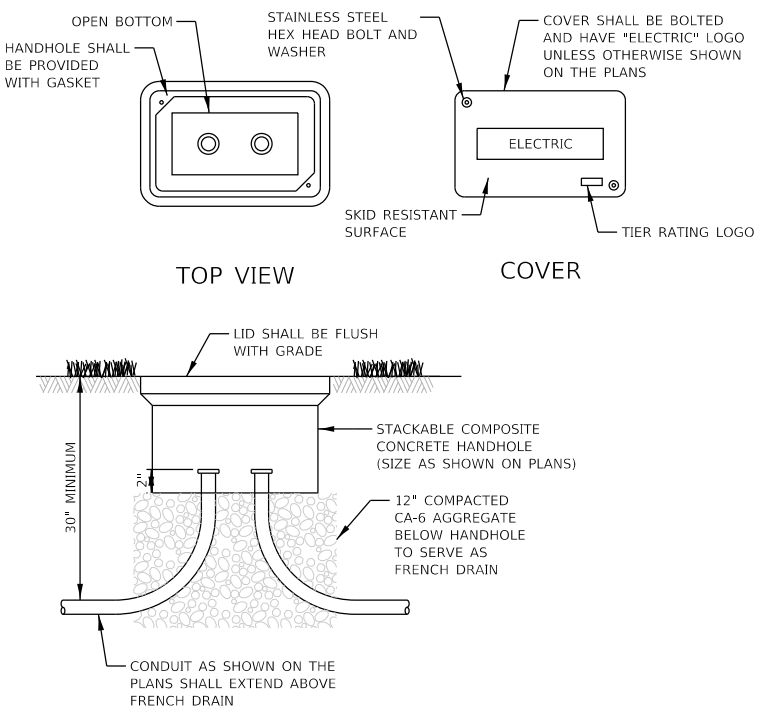
NOMINAL SUPPORT PIPE DIA.	EXTENSION PIPE DIA.	MIN. DISTANCE TO FLOOR
UP TO 12"	2"	7"
14"-16"	3"	9.5"
18"-24"	4"	10"
30"-36"	6"	10"

**STANCHION PIPING SUPPORT**  
N.T.S.



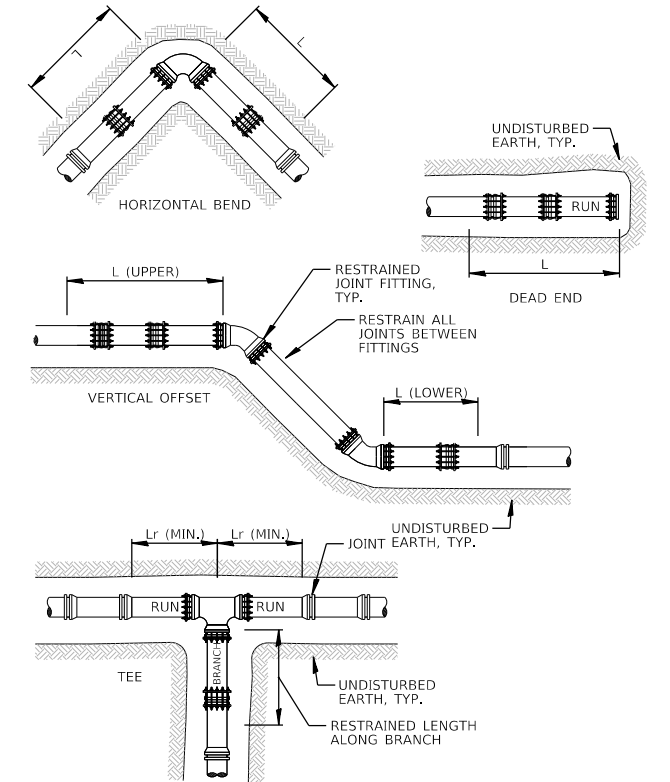
- NOTES:
- CONTRACTOR SHALL SUPPORT PIPE WITH STAINLESS STEEL PIPE CLAMP FASTENED TO STRUCTURE WITH 1/2" STAINLESS STEEL THREADED RODS (EMBEDDED A MIN. OF 3") AND HILTI-RE 500 EPOXY ADHESIVE. PIPE CLAMPS SHALL BE SPACED A MAXIMUM OF 3 FT APART.

**AIRVACUUM VALVE DETAIL**  
N.T.S.



- NOTES:
- ALL SPLICES SHALL BE WATERPROOF (SEE SPLICING DETAIL THIS SHEET).
  - POLYMER CONCRETE HANDHOLE AND LID SHALL BE GREEN IN LANDSCAPED AREAS AND MATCH COLOR IN CONCRETE/BRICK AREAS.
  - BOX & LID SHALL MEET/EXCEED ANSI TIER 15 LOADING REQUIREMENTS, AND BE TESTED IN ACCORDANCE WITH THE LATEST EDITION OF THE ANSI/SCTE 77 "SPECIFICATION FOR UNDERGROUND ENCLOSURE INTEGRITY", AND THE PROVISIONS OF PARAGRAPHS 5.2.3 AND 5.2.4 OF WESTERN UNDERGROUND COMMITTEE GUIDE 3.6.

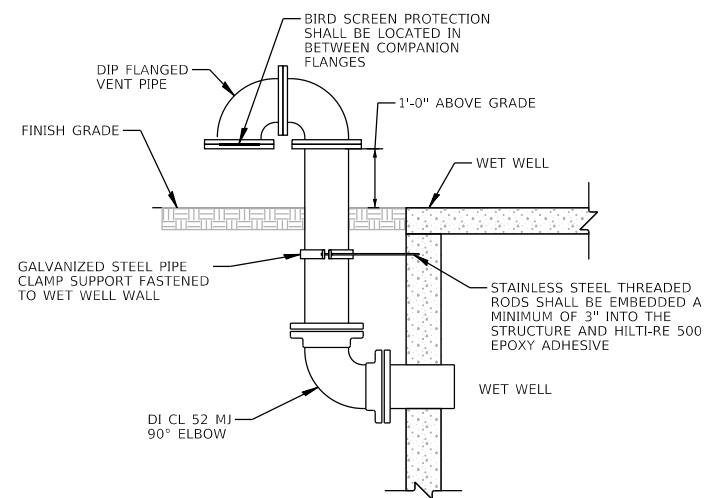
**COMPOSITE CONCRETE HANDHOLE DETAIL**  
N.T.S.



PIPE SIZE	HORIZONTAL BEND			TEE	DEAD END
	90°	45°	22.5°		
6"	17 FT.	8 FT.	4 FT.	14 FT.	36 FT.
8"	23 FT.	10 FT.	5 FT.	25 FT.	47 FT.
10"	27 FT.	11 FT.	6 FT.	34 FT.	56 FT.
12"	32 FT.	13 FT.	7 FT.	44 FT.	66 FT.

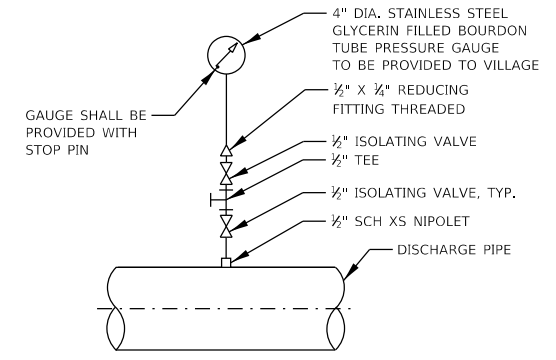
- NOTES:
- ALL JOINTS WITHIN LENGTH "L" OF FITTING SHALL BE RESTRAINED.
  - PLACE RESTRAINED JOINT AGAINST UNDISTURBED EARTH. IF PLACED AGAINST BACKFILL THE BEARING SURFACE AND UNDISTURBED SOIL SHALL BE COMPACTED TO A MINIMUM OF 90% STANDARD PROCTOR DENSITY.
  - CONTRACTOR SHALL FURNISH AND INSTALL RESTRAINED JOINT FITTINGS IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
  - THE RESTRAINED LENGTH TABLE IS BASED ON TYPE 4 LAYING CONDITION, 100 PSI (MAX) INTERNAL PIPE PRESSURE, 1.5 SAFETY FACTOR AND SILTY GRAVEL MIXTURE.
  - PIPE DEPTH SHALL BE A MINIMUM OF 42" UNLESS OTHERWISE SHOWN.

**RESTRAINED JOINT FITTING**  
N.T.S.

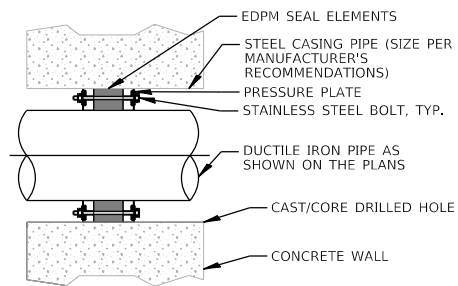


- NOTES:
- VENT PIPE SHALL BE PAINTED WITH TNEMEC 73 ENDURA-SHIELD IN SAFETY YELLOW.
  - PIPE CLAMP SUPPORT, THREADED ROD, EPOXY ADHESIVE, AND ELBOW SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE DIP PUMP DISCHARGE PIPE AND FITTINGS PAY ITEM.

**FLANGED VENT PIPE DETAIL**  
N.T.S.

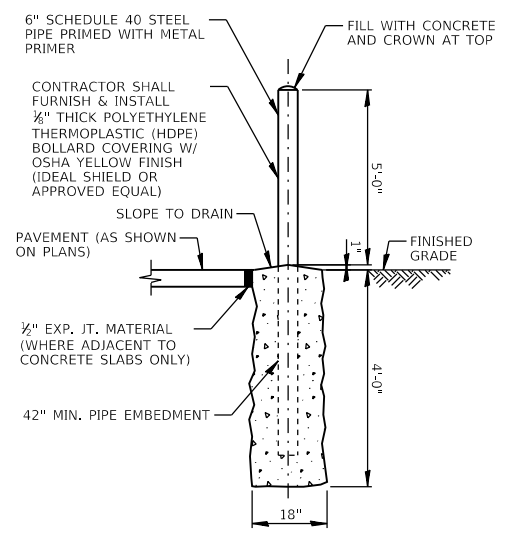


**PRESSURE GAUGE DETAIL**  
N.T.S.



- NOTES:
- MODULAR SEAL SHALL BE AS MANUFACTURED BY LINK-SEAL, SERIES C, OR APPROVED EQUAL.

**PIPE WALL PENETRATION DETAIL (SQUARE STRUCTURES ONLY)**  
N.T.S.



**BOLLARD DETAIL**  
N.T.S.

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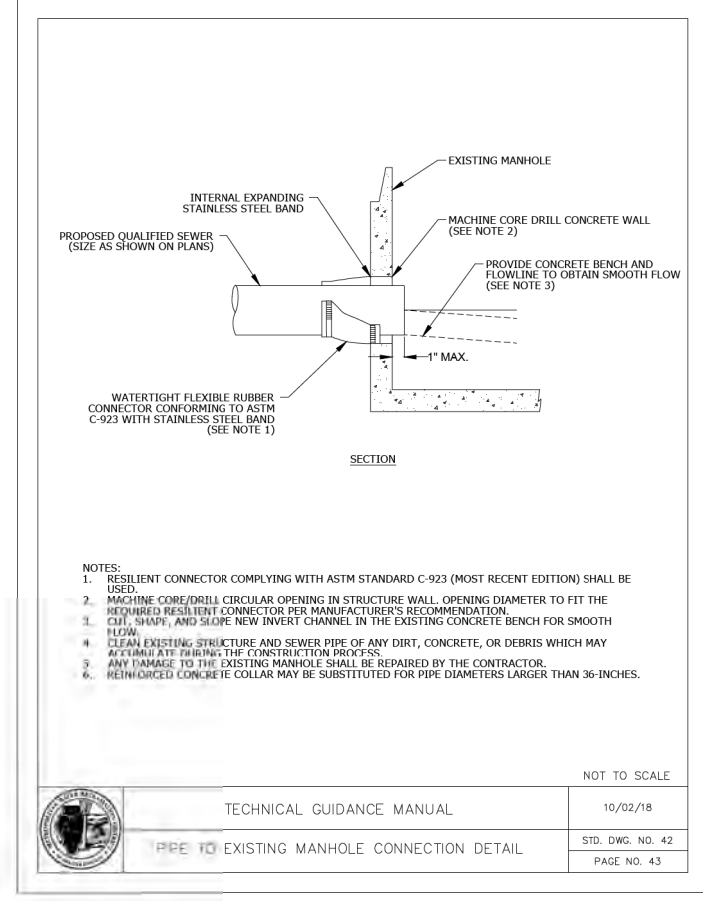
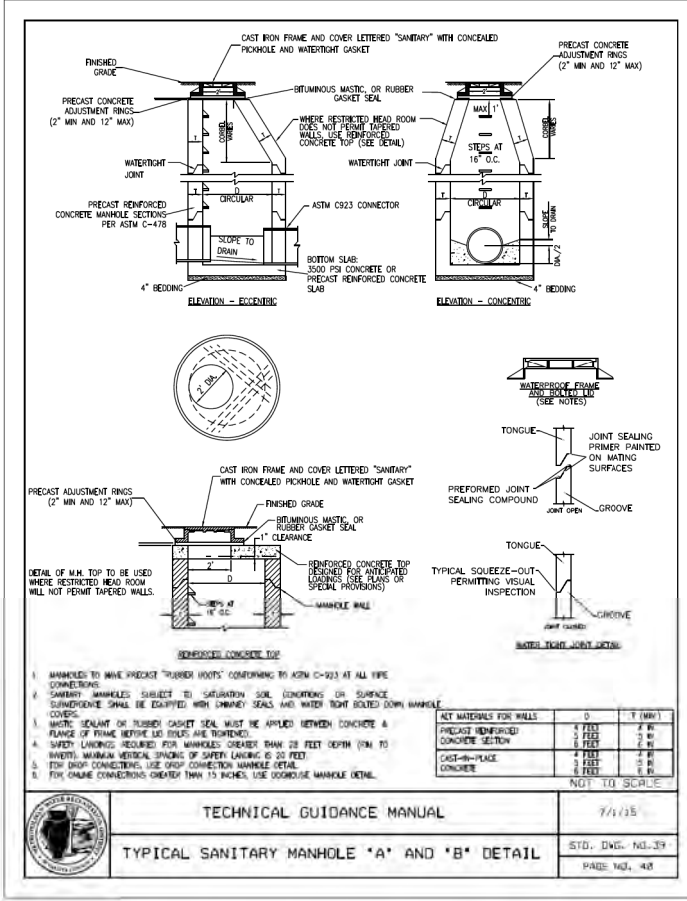
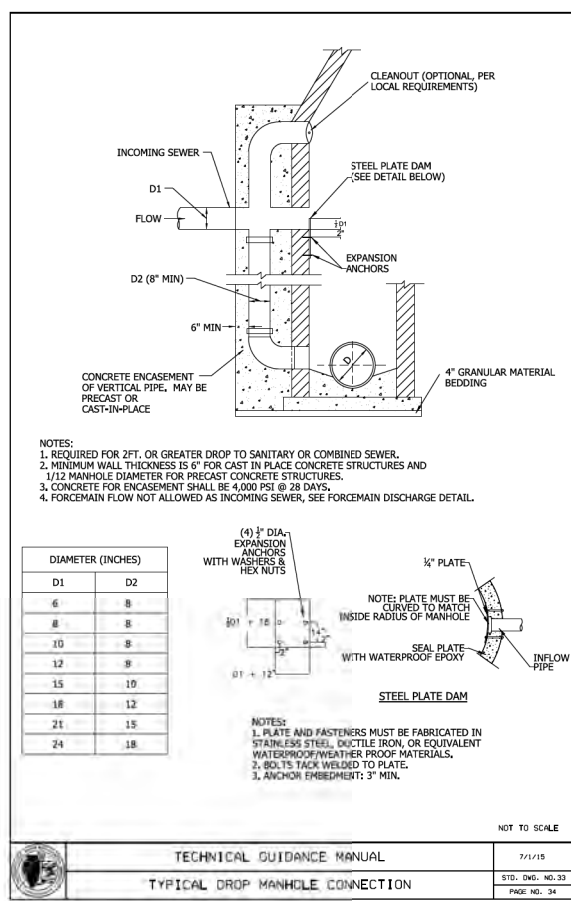
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**VILLAGE OF HOFFMAN ESTATES**  
1900 HASSELL ROAD  
HOFFMAN ESTATES, IL 60169

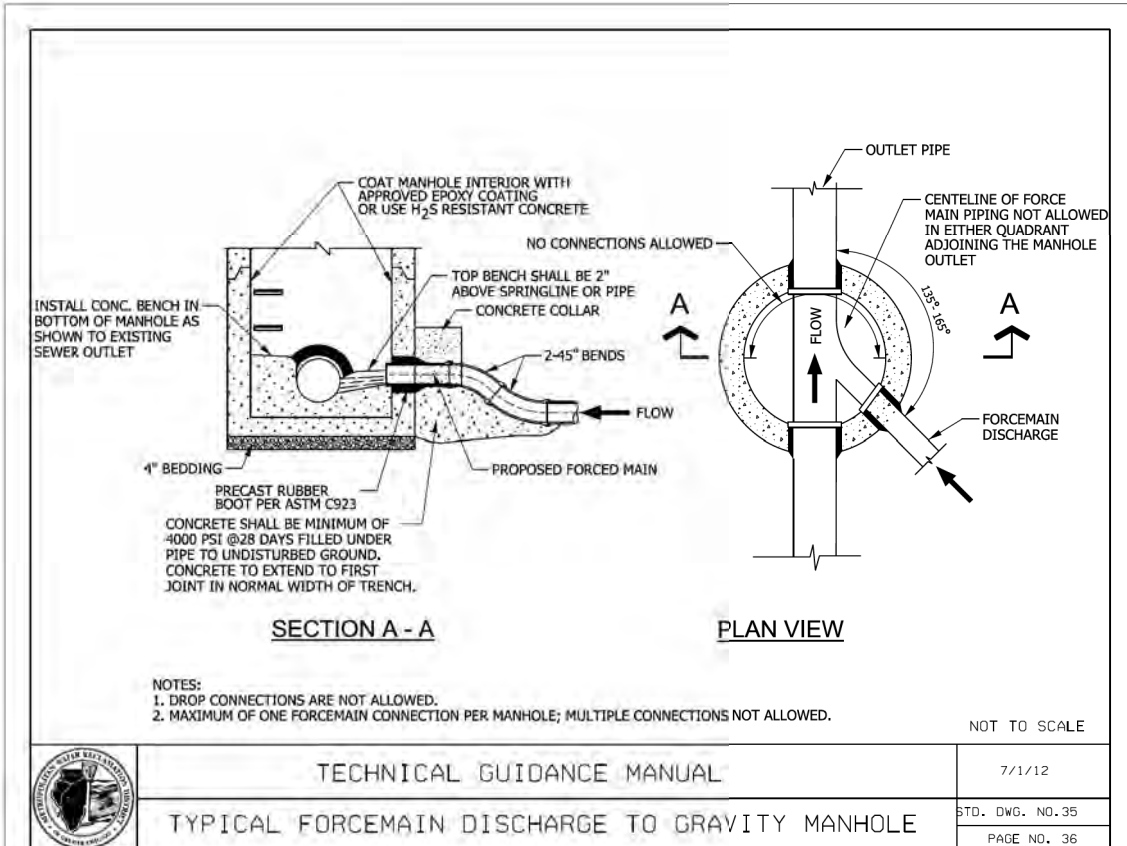
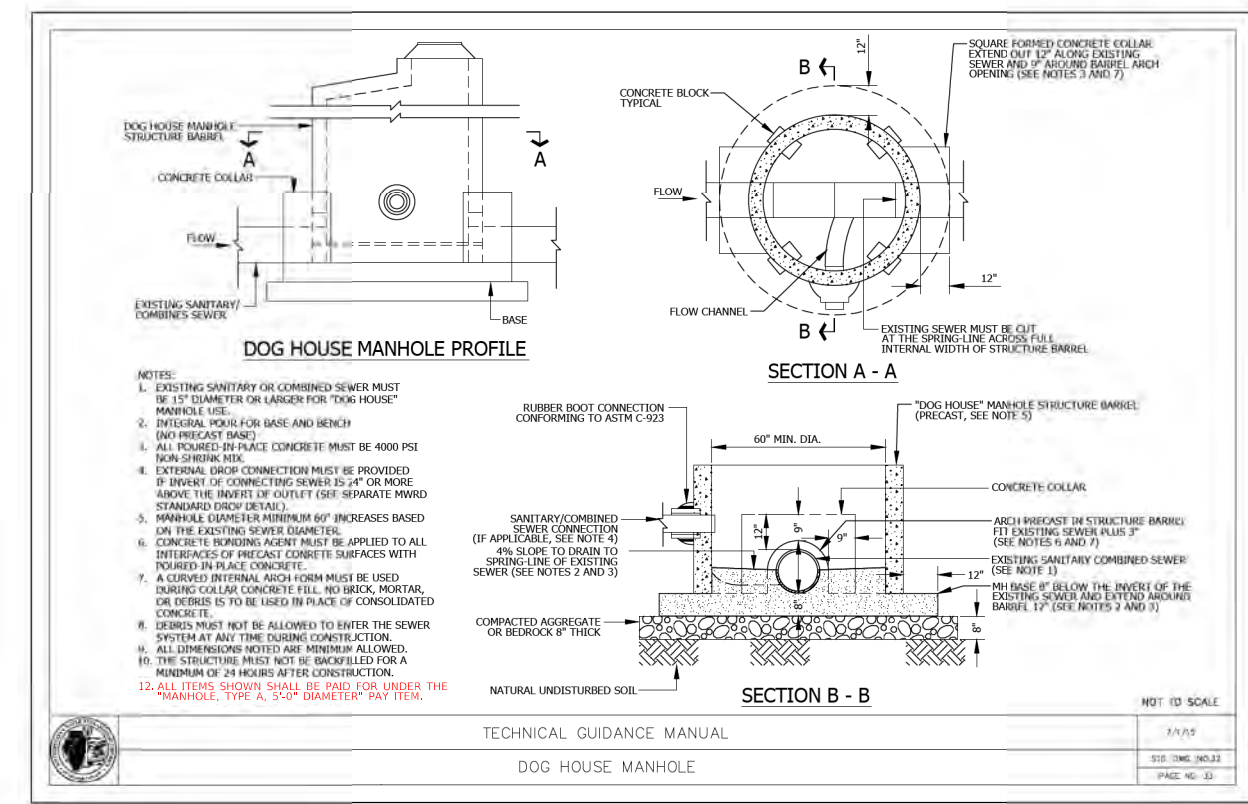
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GENERAL DETAILS	RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			COOK	42	31
CONTRACT NO.					
ILLINOIS FED. AID PROJECT					



**ADDITIONAL NOTES:**

- PRECAST FABRICATED CONCRETE STRUCTURES SHALL HAVE JOINTS SEALED WITH BUTYL RUBBER SEALANT ROPE AND EXTERIOR JOINT SEALED WITH MAC WARP.



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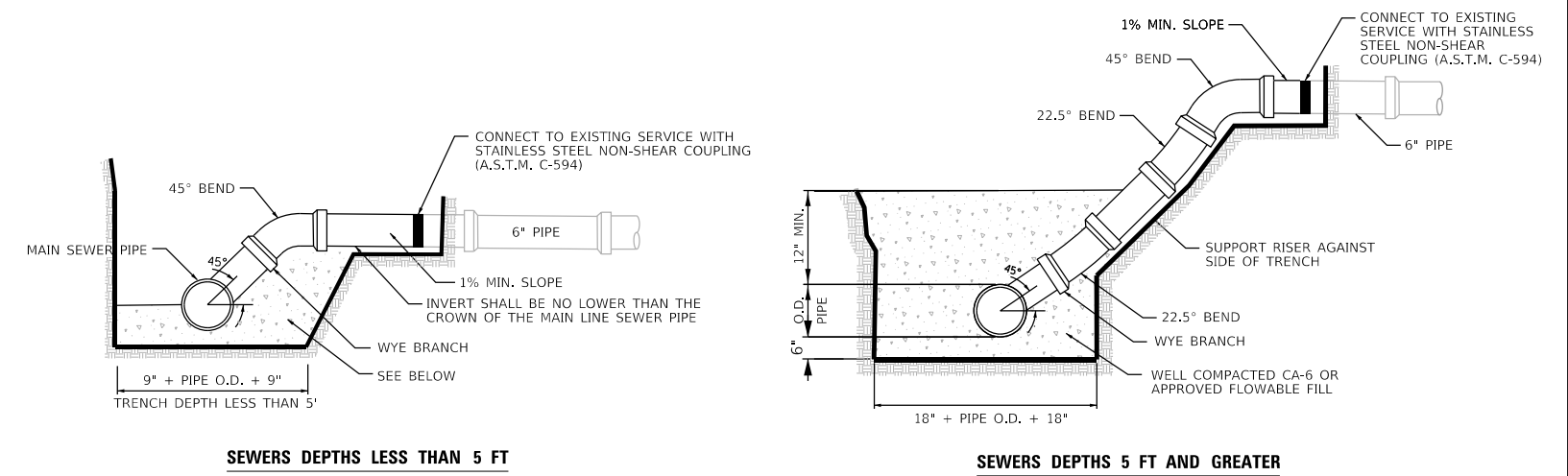
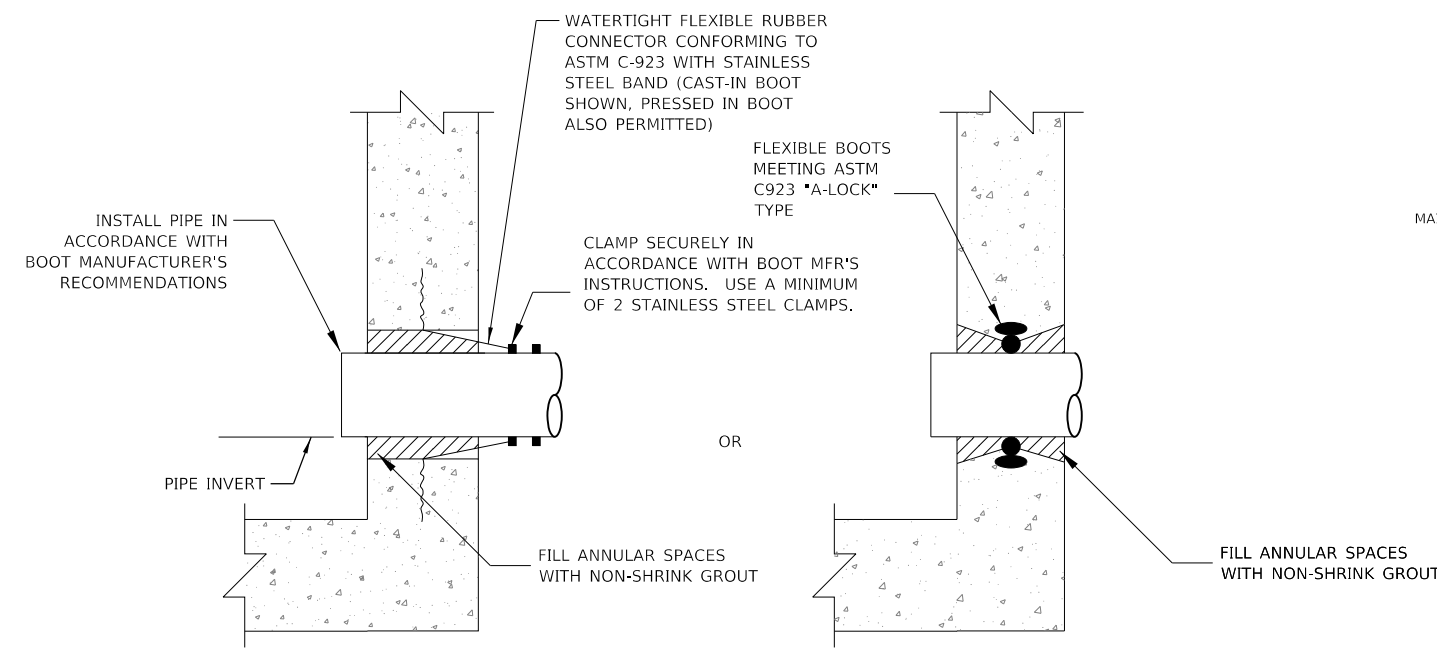
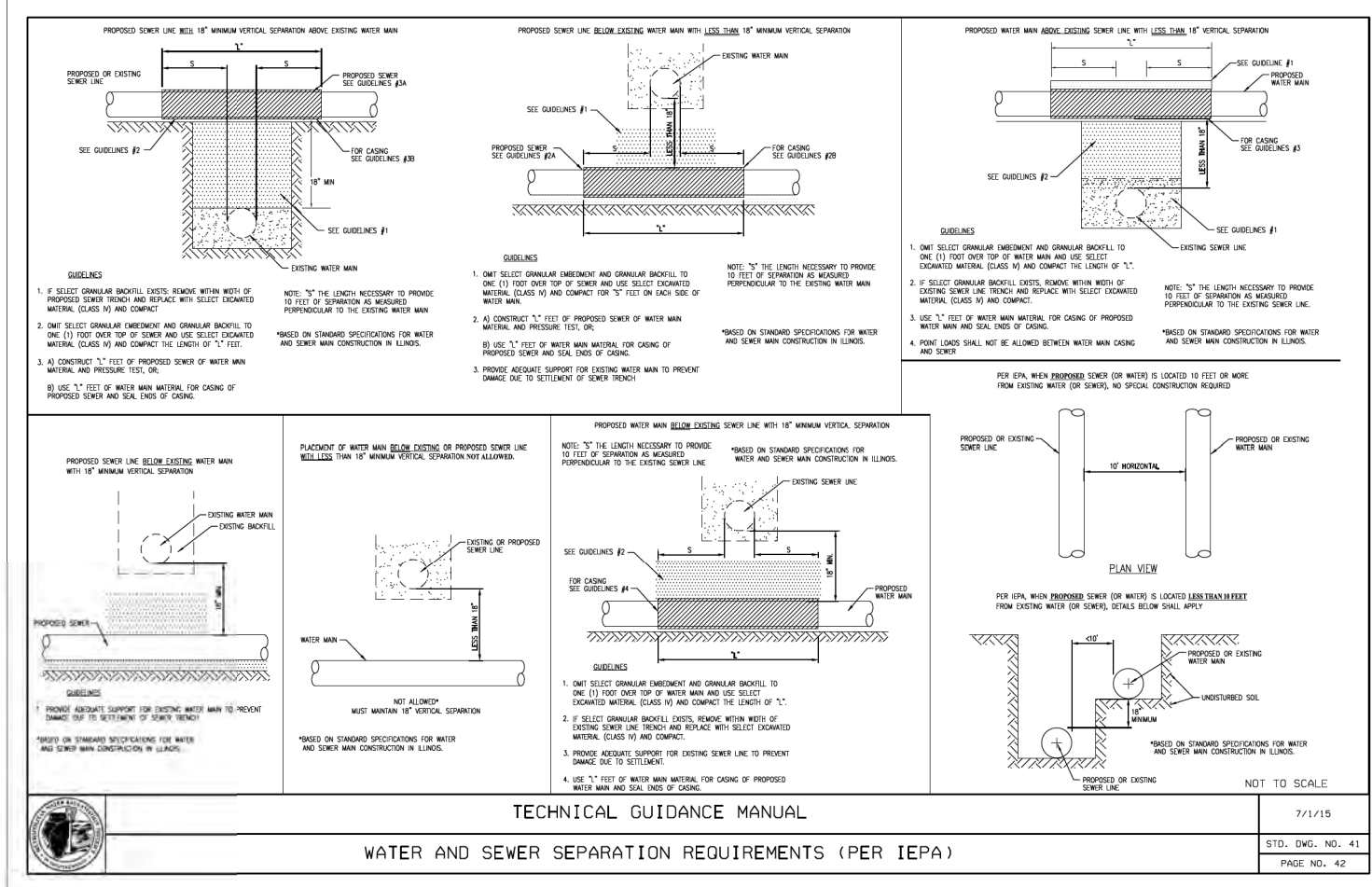
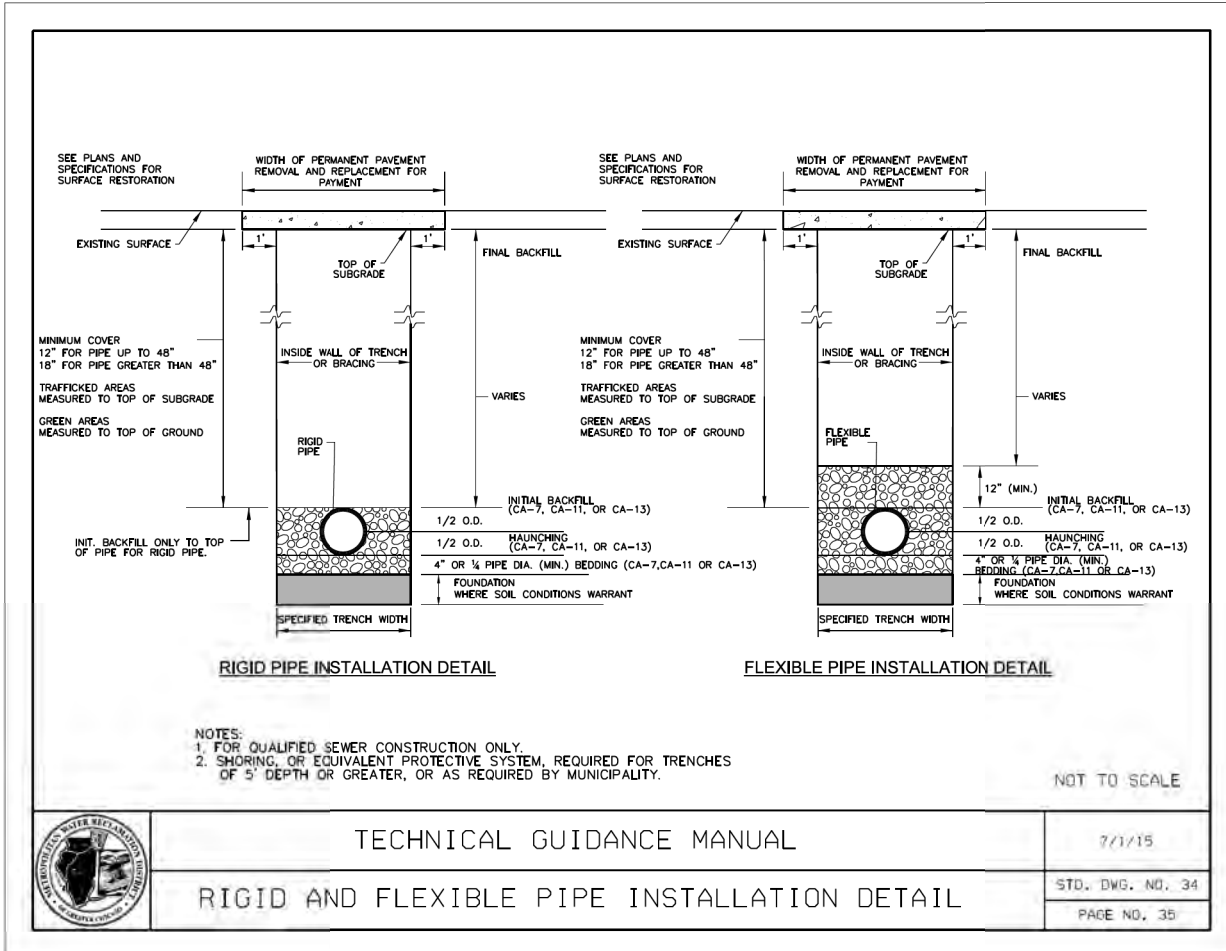
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**VILLAGE OF HOFFMAN ESTATES**  
 1900 HASSELL ROAD  
 HOFFMAN ESTATES, IL 60169

TECHNICAL GUIDANCE MANUAL		7/1/12
TYPICAL FORCEMAIN DISCHARGE TO GRAVITY MANHOLE		STD. DWG. NO. 35
		PAGE NO. 36

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GENERAL DETAILS		CONTRACT NO.	
RT.	SECTION	COUNTY	TOTAL SHEETS
		COOK	42
			32



**SERVICE LATERAL DETAIL**

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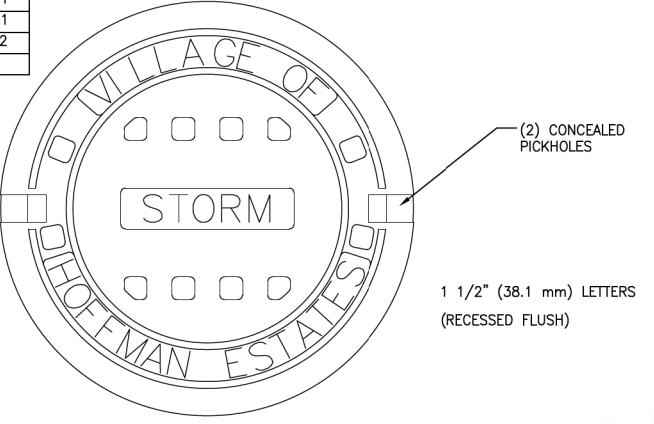
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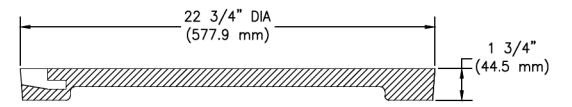
**VILLAGE OF HOFFMAN ESTATES**  
**1900 HASSELL ROAD**  
**HOFFMAN ESTATES, IL 60169**

<b>GENERAL DETAILS</b>				RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: N.T.S.	SHEET 3	OF 6 SHEETS	STA.			COOK	42	33
				CONTRACT NO.		ILLINOIS FED. AID PROJECT		

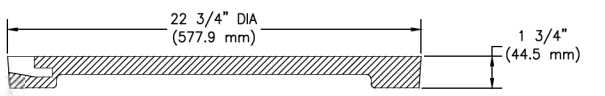
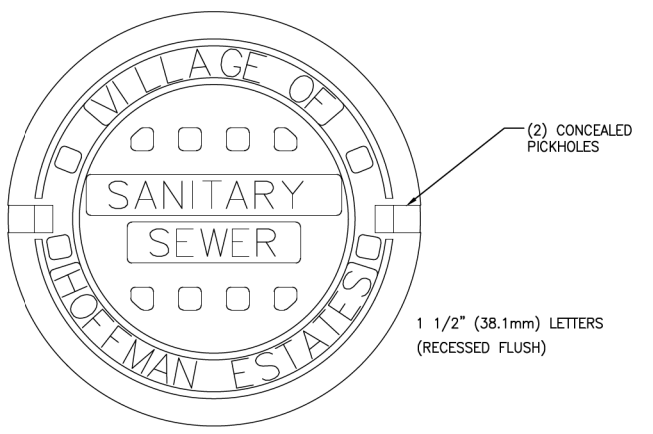
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B-6.12 CURB	R-3278-A	00722031C01
M-3.12 CURB	R-3501-P	00752530C01
DEPRESSED	R-3281-A	00721046C02
BEEHIVE	R-4340-B	00652741



HEAVY DUTY MATERIAL  
ASTM A48 CL35  
MACHINED BEARING SURFACE  
COVER WT: 125 LBS (56.7 kg)

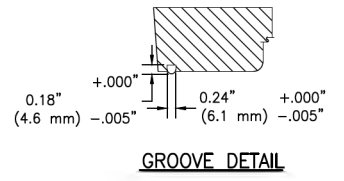


STORM COVER		SCALE	NONE	REVISIONS	NO.	BY	DATE
VILLAGE OF HOFFMAN ESTATES ENGINEERING DIVISION		DATE	01/01/26	NO.	1	BY	MRC
SHEET NO.		1 OF 1					

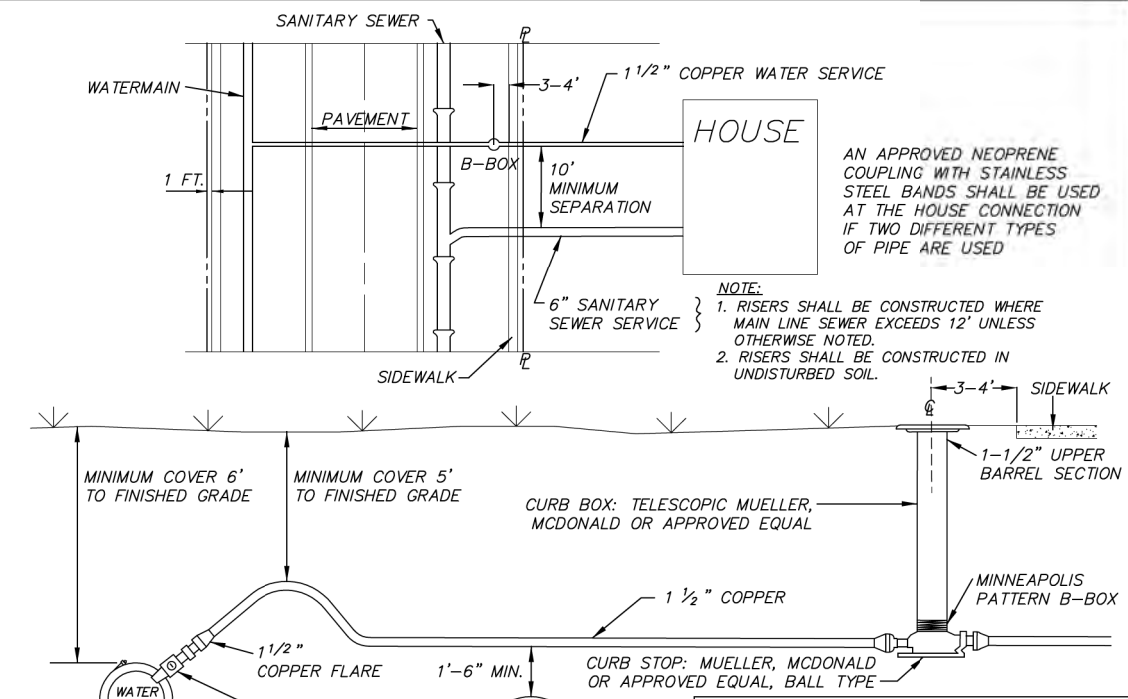


HEAVY DUTY MATERIAL ASTM A48 CL35  
MACHINED BEARING SURFACE  
COVER WT: 125 LBS (56.7kg)

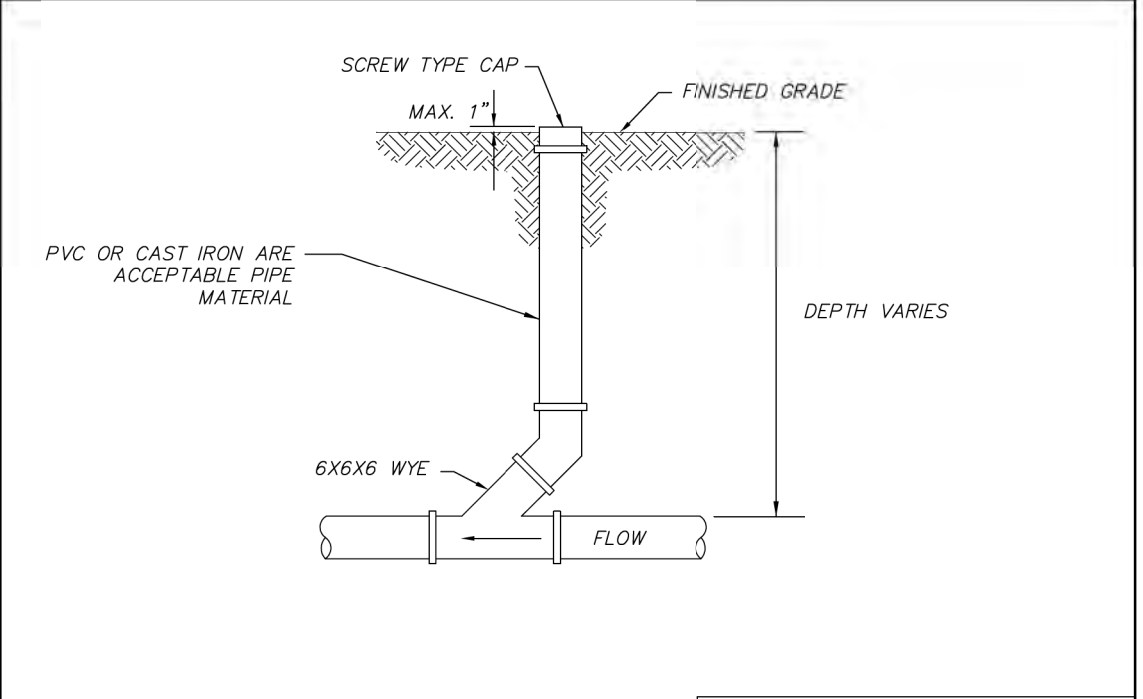
MANHOLE COVER WITH GROOVED GASKET SEAL & CONCEALED PICKHOLES TO REDUCE SURFACE WATER INFLOW.



SANITARY COVER		SCALE	NONE	REVISIONS	NO.	BY	DATE
VILLAGE OF HOFFMAN ESTATES ENGINEERING DIVISION		DATE	01/01/26	NO.	1	BY	MRC
SHEET NO.		1 OF 1					



SERVICE CONNECTION DETAILS			
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DRAFTER	SLW	BY	SW
VILLAGE OF HOFFMAN ESTATES TRANSPORTATION & ENGINEERING DIVISION	FILE NAME:	SHEET NO.	1 OF 1



CLEAN OUT DETAIL			
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PLOT DATE = 5/7/2026	CHECKED - KL	REVISED -
	DATE - 3/20/2026	REVISED -



VILLAGE OF HOFFMAN ESTATES  
1900 HASSELL ROAD  
HOFFMAN ESTATES, IL 60169

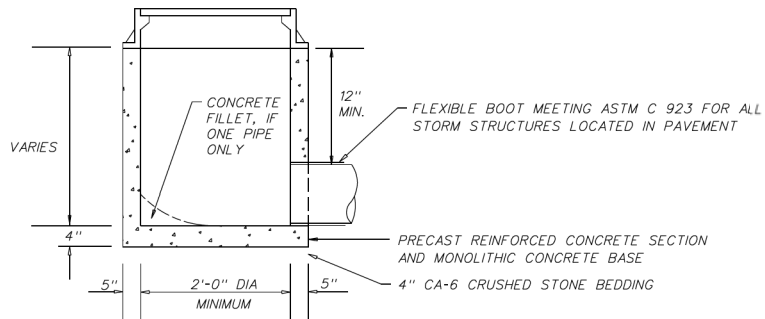
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SCALE: N.T.S.	SHEET 4 OF 6 SHEETS
STA.	TO STA.

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	42	34
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

**FRAME AND GRATE TYPES**

- FOR B6.12 CURB: EAST JORDAN 7221 WITH TYPE M1 GRATE & T1 BACK, NEENAH R-3010 WITH TYPE A GRATE & BARRED CURB BOX OR APPROVED EQUIV.
- FOR M3.12 CURB: EAST JORDAN 7525 OR APPROVED EQUIV.
- USE NEENAH R-2504 WITH TYPE D GRATE, EAST JORDAN 1050Z1 WITH TYPE M1 GRATE OR APPROVED EQUIV FOR STRUCTURES WITHIN DEPRESSED CURB AREAS.
- FOR YARD INLET: NEENAH R-2540 WITH TYPE D GRATE, EAST JORDAN 1020 WITH TYPE M1 GRATE OR APPROVED EQUIV.

\* - CURB BOX MUST BE BARRED STYLE.



**NOTES:**

- ONLY PRECAST STRUCTURES ALLOWED.
- TWO ADJUSTING RINGS ALLOWED, MAXIMUM HEIGHT = 12".
- FRAME AND GRATE SHALL BE MORTARED TO THE INLET STRUCTURE.
- PRECAST CONCRETE BASE MUST BE INTEGRALLY CAST WITH THE LOWEST WALL SECTION.
- ALL GRATES PROVIDED SHALL BE BICYCLE SAFE.
- ALL STRUCTURES LOCATED IN THE PAVEMENT SHALL FOLLOW THE WEEPHOLE DETAIL.

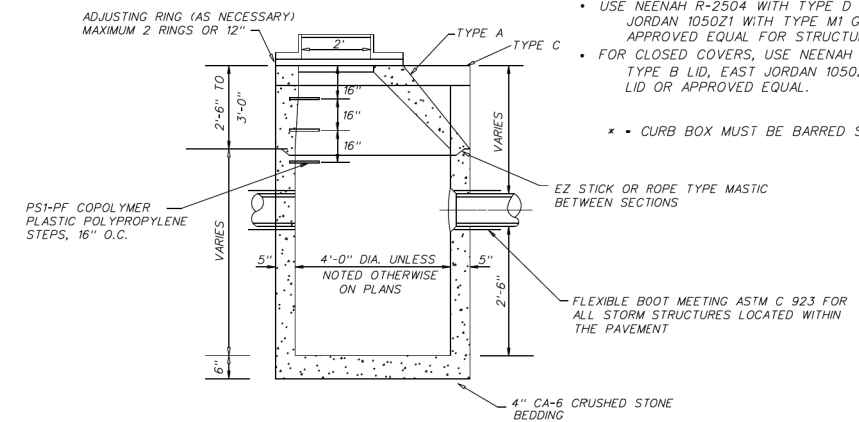
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DRAFTER	SLW				
VILLAGE OF HOFFMAN ESTATES TRANSPORTATION & ENGINEERING DIVISION	FILE NAME: INLET.DWG	SHEET NO. 1 OF 1			

**FRAME AND GRATE TYPES**

- FOR B6.12 CURB: EAST JORDAN 7221 WITH TYPE M1 GRATE & T1 BACK, NEENAH R-3010 WITH TYPE A GRATE & BARRED CURB BOX OR APPROVED EQUIV.
- FOR M3.12 CURB: EAST JORDAN 7525 OR APPROVED EQUIV.
- USE NEENAH R-2504 WITH TYPE D GRATE, EAST JORDAN 1050Z1 WITH TYPE M1 GRATE OR APPROVED EQUIV FOR STRUCTURES IN THE STREET.
- FOR CLOSED COVERS, USE NEENAH R-1713 WITH TYPE B LID, EAST JORDAN 1050Z1 WITH TYPE A LID OR APPROVED EQUIV.

\* - CURB BOX MUST BE BARRED STYLE.



**CATCH BASIN TYPE A & C**

- NOTES:**
- ONLY PRECAST STRUCTURES ALLOWED.
  - PRECAST CONCRETE BASE MUST BE INTEGRALLY CAST WITH THE LOWEST WALL SECTION.
  - THE FRAME AND GRATE SHALL BE MORTARED TO THE CONCRETE STRUCTURE.
  - ALL STRUCTURES LOCATED IN THE PAVEMENT SHALL FOLLOW THE WEEPHOLE DETAIL.

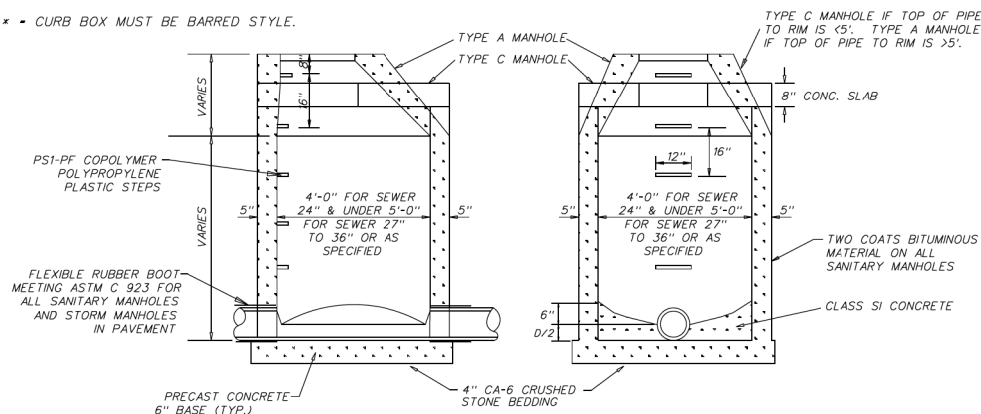
**CATCH BASIN DETAIL**

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DRAFTER	SLW				
VILLAGE OF HOFFMAN ESTATES TRANSPORTATION & ENGINEERING DIVISION	FILE NAME: CATCHBASIN.DWG	SHEET NO. 1 OF 1			

**FRAME AND GRATE TYPES**

- FOR B6.12 CURB: EAST JORDAN 7221 WITH TYPE M1 GRATE & T1 BACK, NEENAH R-3010 WITH TYPE A GRATE & BARRED CURB BOX OR APPROVED EQUIV.
- FOR M3.12 CURB: EAST JORDAN 7525 OR APPROVED EQUIV.
- USE NEENAH R-2504 WITH TYPE D GRATE, EAST JORDAN 1050Z1 WITH TYPE M1 GRATE OR APPROVED EQUIV FOR STRUCTURES WITHIN DEPRESSED CURB AREAS.
- FOR CLOSED COVERS, USE NEENAH R-1713 WITH TYPE B LID, EAST JORDAN 1050Z1 WITH TYPE A LID OR APPROVED EQUIV.

\* - CURB BOX MUST BE BARRED STYLE.

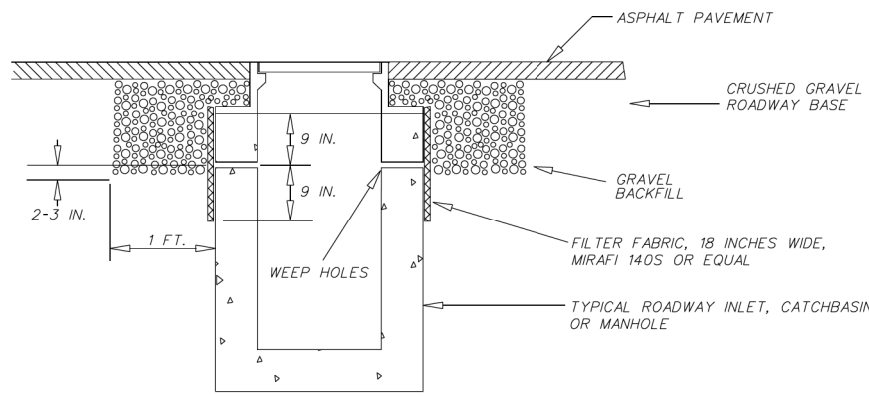


**MANHOLE TYPES A & C**

- NOTES:**
- ONLY PRECAST STRUCTURES ALLOWED.
  - TWO ADJUSTING RINGS ALLOWED, MAXIMUM HEIGHT = 12".
  - MANHOLE SECTIONS TO BE JOINED WITH ROPE TYPE MASTIC (E-Z STICK OR EQUAL).
  - PRECAST CONCRETE BASE MUST BE INTEGRALLY CAST WITH THE LOWEST WALL SECTION.
  - ALL GRATES PROVIDED SHALL BE BICYCLE SAFE.
  - ALL SANITARY SEWER MANHOLES SHALL HAVE A CHIMNEY SEAL FROM CRETEX OR APPROVED EQUIV.
  - ALL STORM STRUCTURES LOCATED IN THE PAVEMENT SHALL FOLLOW THE WEEPHOLE DETAIL.

**MANHOLE DETAIL**

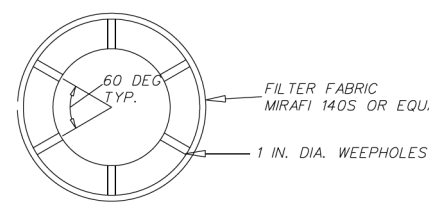
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DRAFTER	SLW				
VILLAGE OF HOFFMAN ESTATES TRANSPORTATION & ENGINEERING DIVISION	FILE NAME: MANHOLE.DWG	SHEET NO. 1 OF 1			



**SIDE VIEW**

**NOTES**

- SECURE FILTER FABRIC WITH CLAMPS OR MASTIC.
- ALL STORM STRUCTURES IN PAVEMENT SHALL FOLLOW THIS DETAIL.

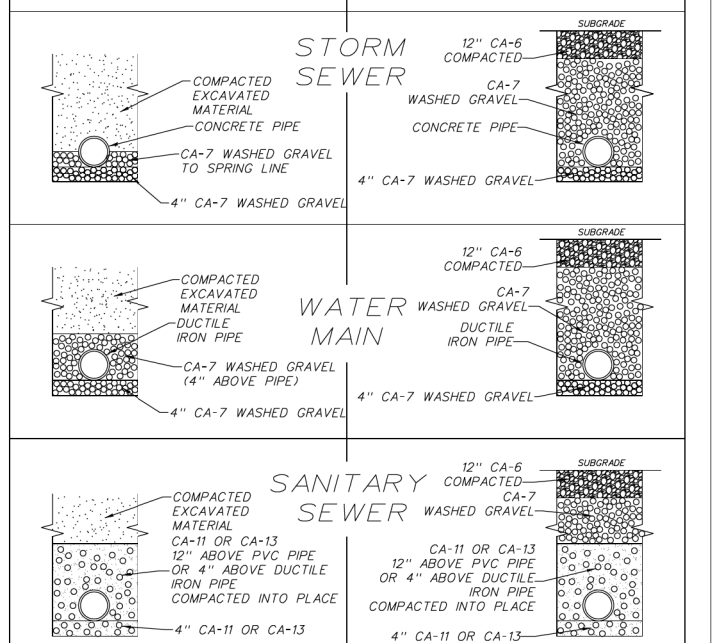


**TOP VIEW**

**WEEPHOLE DETAIL**

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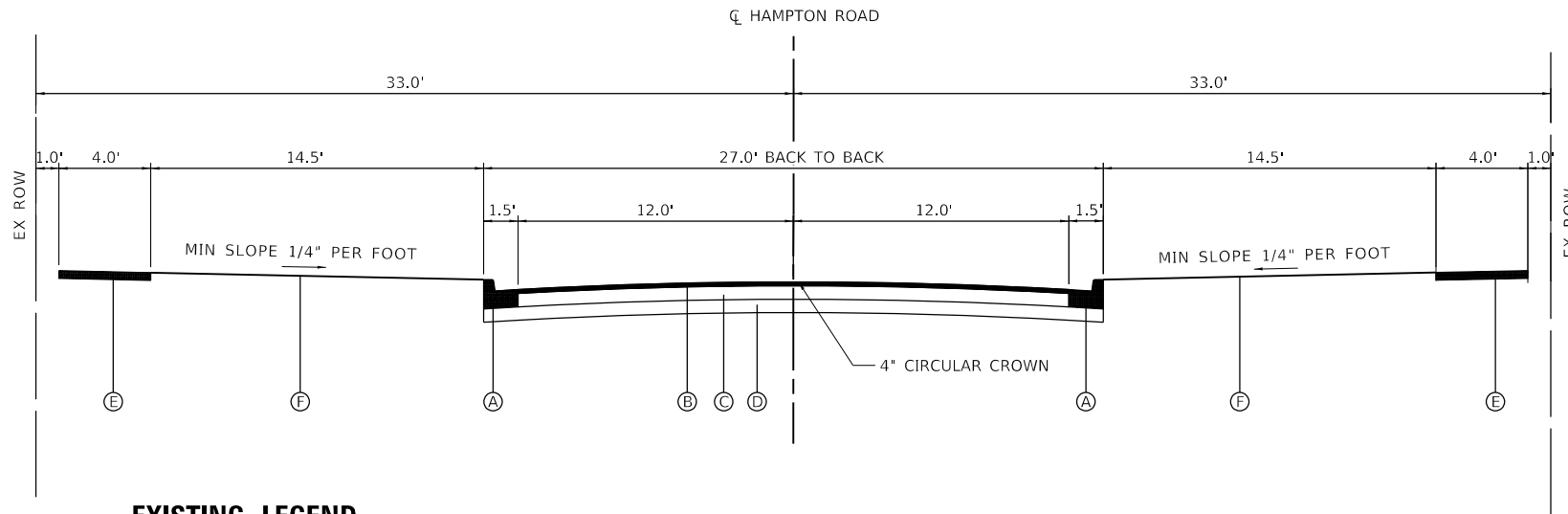
**TRENCH BACKFILL DETAIL**



NOTE: ALL TRENCH WIDTHS SHALL EQUAL 4/3 PIPE DIA. - 8" OR A MINIMUM OF 32"

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VILLAGE OF HOFFMAN ESTATES TRANSPORTATION & ENGINEERING DIVISION	FILE NAME: TYP-TREN2.DWG	SHEET NO. 1 OF 1	1.	MISC UPDATES	SW	2/10			

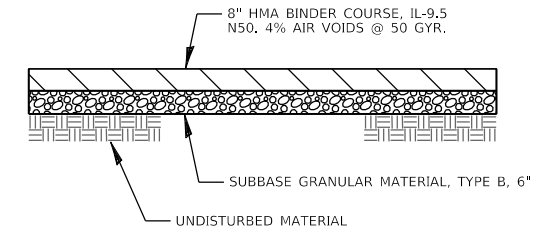
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FILE NAME = 1746.01.CADD.SHEET.DWG



**EXISTING LEGEND**

- (A) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-3.12
- (B) 1.5" HOT-MIX ASPHALT SURFACE COURSE
- (C) 6.5" HOT-MIX ASPHALT BINDER COURSE
- (D) 6" SUBBASE GRANULAR MATERIAL, TYPE B
- (E) 4" CONCRETE SIDEWALK
- (F) EXISTING GROUND

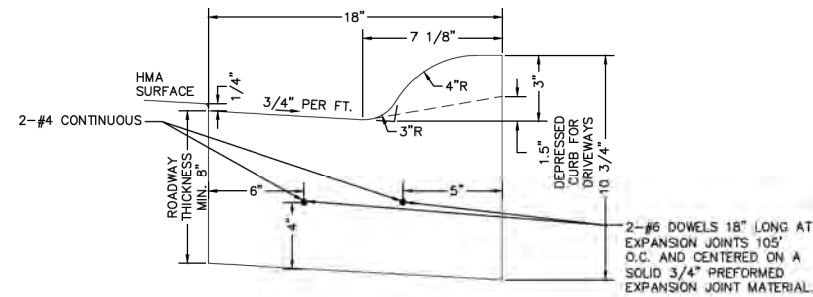
**EXISTING HAMPTON ROAD PAVEMENT SECTION  
(FOR REFERENCE ONLY)**



**ROADWAY REPLACEMENT PATCH**  
N.T.S.

**NOTES:**

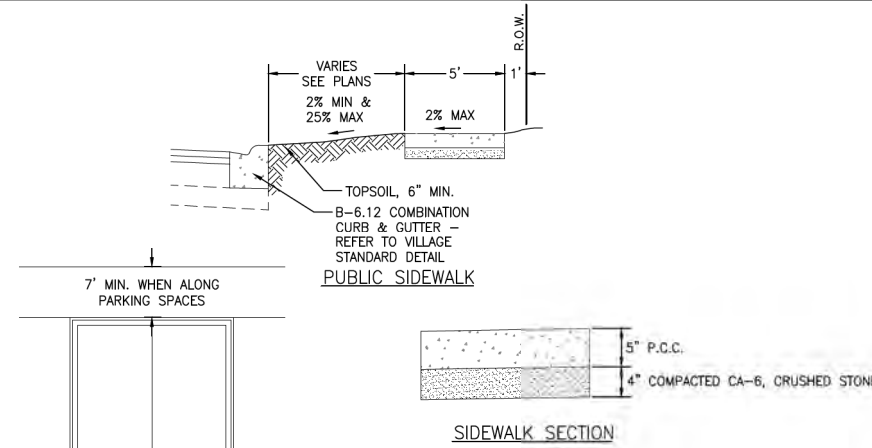
1. OPEN TRENCH CUTS ALONG THE ROADWAYS SHALL BE PATCHED, THE VILLAGE IS SCHEDULED TO REPAVE HAMPTON ROAD IN 2027.
2. THE CONTRACTOR SHALL COORDINATE PAVEMENT PATCHING WORK WITH THE VILLAGE.
3. THE HMA PAVEMENT PATCH SHALL BE ALL BINDER COURSE WITH NO SURFACE COURSE.



**NOTES:**

1. THE CURB SHALL BE DEPRESSED AT ALL APRONS AND ACROSS ALL SIDEWALK RAMPING IN ACCORDANCE WITH PROJECT DETAILS AND ADA GUIDELINES.
2. DEPRESSED CURB FOR SIDEWALK RAMPS SHALL BE A MAXIMUM OF 1/2 INCH IN HEIGHT.
3. CONTRACTION JOINTS TO BE TOOLED OR SAWCUT EVERY 15 FEET TO A DEPTH OF 1 1/2 INCHES.
4. EXPANSION JOINTS SHALL BE PROVIDED AT THE BEGINNING AND END OF ALL RETURN RADII, 5 FEET EITHER SIDE OF A DRAINAGE STRUCTURE, AT THE END OF A DAY'S POUR, AND/OR AT SPACING NOT TO EXCEED 105 FEET.
5. EXPANSION JOINTS SHALL CONSIST OF 2-NO. 6 BARS, 18 INCHES LONG, CAPPED AND GREASED ON ONE END, EXTENDING THROUGH AND CENTERED ON A SOLID 3/4 INCH PREFORMED EXPANSION JOINT MATERIAL CUT TO CONFORM TO THE SHAPE OF THE CURB AND GUTTER SECTION.
6. PREFORMED 1/2 INCH EXPANSION JOINTS WILL BE PROVIDED BETWEEN THE SIDEWALKS AND CONCRETE DRIVEWAYS WHERE THEY ABUT AGAINST CONCRETE CURB.
7. EXPANSION JOINTS MUST MATCH THE THICKNESS OF THE SIDEWALK OR DRIVEWAY PAVEMENT SECTION.
8. TWO DRILLED AND GROUTED NO. 6 REINFORCING BARS OR EXPANSIONS TIE ANCHORS, 5/8 INCH IN DIAMETER, SHALL BE USED TO TIE THE PROPOSED CURB AND GUTTER TO THE EXISTING CURB AND GUTTER ON EACH SIDE.
9. CURB SHALL BE STAMPED WITH A "W" INDICATING THE LOCATION OF WATER SERVICES AND STAMPED WITH A "S" INDICATING THE LOCATION OF SANITARY SEWER SERVICES.
10. CURE AND SEAL COMPOUND PER THE VILLAGE APPROVED MATERIAL LIST.
11. CLASS SI CONCRETE IN ACCORDANCE WITH THE STAND OF ILLINOIS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
12. ALL WORK AND MATERIAL SHALL CONFORM TO IDOT STANDARD SPECIFICATIONS UNLESS OTHERWISE SPECIFIED.

M-3.12 CURB AND GUTTER		SCALE	NONE	REVISIONS
DATE	5/25/05	NO.	BY	DATE
DRAFTER	SLW	1.	SW	2/10
FILE NAME	M3.12.DWG	SHEET NO.	2.	MC12/25
		1 OF 1		



**SIDEWALK ALONG PARKING SPACES**

\*MUST MAINTAIN FULL HEIGHT CURB IN FRONT OF PARKING STALLS. REFER TO CURB RAMP TRANSITION DETAIL FOR FURTHER INFORMATION ON CURB RAMPS LOCATED ALONG PARKING STALLS.

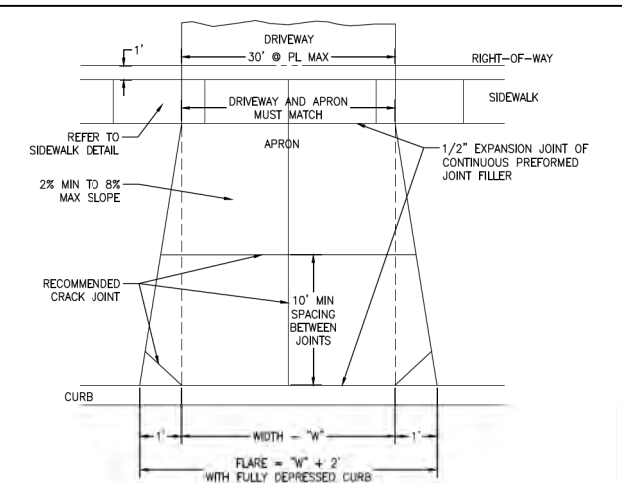
**NOTES:**

1. CONCRETE SIDEWALKS WITHIN DRIVEWAY AREAS SHALL BE A MINIMUM OF 6" OR MATCH THE DRIVEWAY PAVEMENT THICKNESS.
2. ALL CONCRETE FORMS SHALL BE SIZED PROPERLY TO COVER THE ENTIRETY OF THE SLAB THICKNESS.
3. SIDEWALK CONSTRUCTION SHALL FOLLOW APPLICABLE IDOT STANDARDS.
4. SIDEWALKS SHALL FOLLOW CURRENT ADA GUIDELINES.
5. PREFORMED 3/4" EXPANSION JOINTS SHALL BE CONSTRUCTED AT A MAXIMUM SPACING OF 5'.
6. FORMED OR SAW-CUT CONTRACTION JOINTS SHALL BE SPACED GENERALLY 5' APART, BUT NO LESS THAN 4' AND NO MORE THAN 6'.
7. 1/2" EXPANSION JOINTS SHALL BE INSTALLED WHERE SIDEWALK ABUTS BUILDINGS, TRAFFIC SIGNAL FOUNDATIONS, SERVICE POLES, AND OTHER IMMOVABLE STRUCTURES.

**SIDEWALK**

VILLAGE OF HOFFMAN ESTATES  
TRANSPORTATION & ENGINEERING DIVISION

SIDEWALK		SCALE	NONE	REVISIONS
DATE	12/01/25	NO.	BY	DATE
DRAFTER	MRC			
FILE NAME	SDWLK.DWG	SHEET NO.	1	OF 1



**NOTES:**

1. MINIMUM WIDTH, "W" = 10', MINIMUM FLARE = 12'. MAXIMUM WIDTH, "W" = 30', MAXIMUM FLARE = 32'.
2. THE APRON SHALL CONSIST OF:  
6" P.C.C.  
6" X 6" NO. 10 STEEL MESH REINFORCED OR SYNTHETIC FIBERS  
4" CA-6 CRUSHED STONE OR GRAVEL  
CONCRETE TO BE 6 BAG MIX, 3500 PSI COMPRESSIVE STRENGTH
3. THE DRIVEWAY SHALL CONSIST OF:  
2" H.M.A. OR 4" P.C.C.  
6" CA-6 CRUSHED STONE OR 4" CA-6 CRUSHED STONE  
W/ WIRE MESH REINFORCEMENT OR SYNTHETIC FIBERS
4. SIDEWALK THROUGH DRIVEWAY MUST BE A MINIMUM OF 6" P.C.C. WITH 4" STONE.
5. CONCRETE MUST BE CURED IN ACCORDANCE WITH IDOT SPECIFICATIONS.

RESIDENTIAL APRON & DRIVEWAY		SCALE	NONE	REVISIONS
DATE	5/25/05	NO.	BY	DATE
DRAFTER	SLW	1.	SLW	2/10
FILE NAME	RESAPR.DWG	SHEET NO.	2.	MC12/25
		1 OF 1		

**ADDITIONAL NOTES:**

1. THE CONCRETE DRIVEWAY SHALL BE PAID FOR AS FOLLOWS:  
- ASPHALT PAVEMENT UNDER THE CONTRACT PAY ITEM "HOT MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50"  
- CRUSHED STONE BASE UNDER THE CONTRACT PAY ITEM "SUBBASE GRANULAR MATERIAL, TYPE B"

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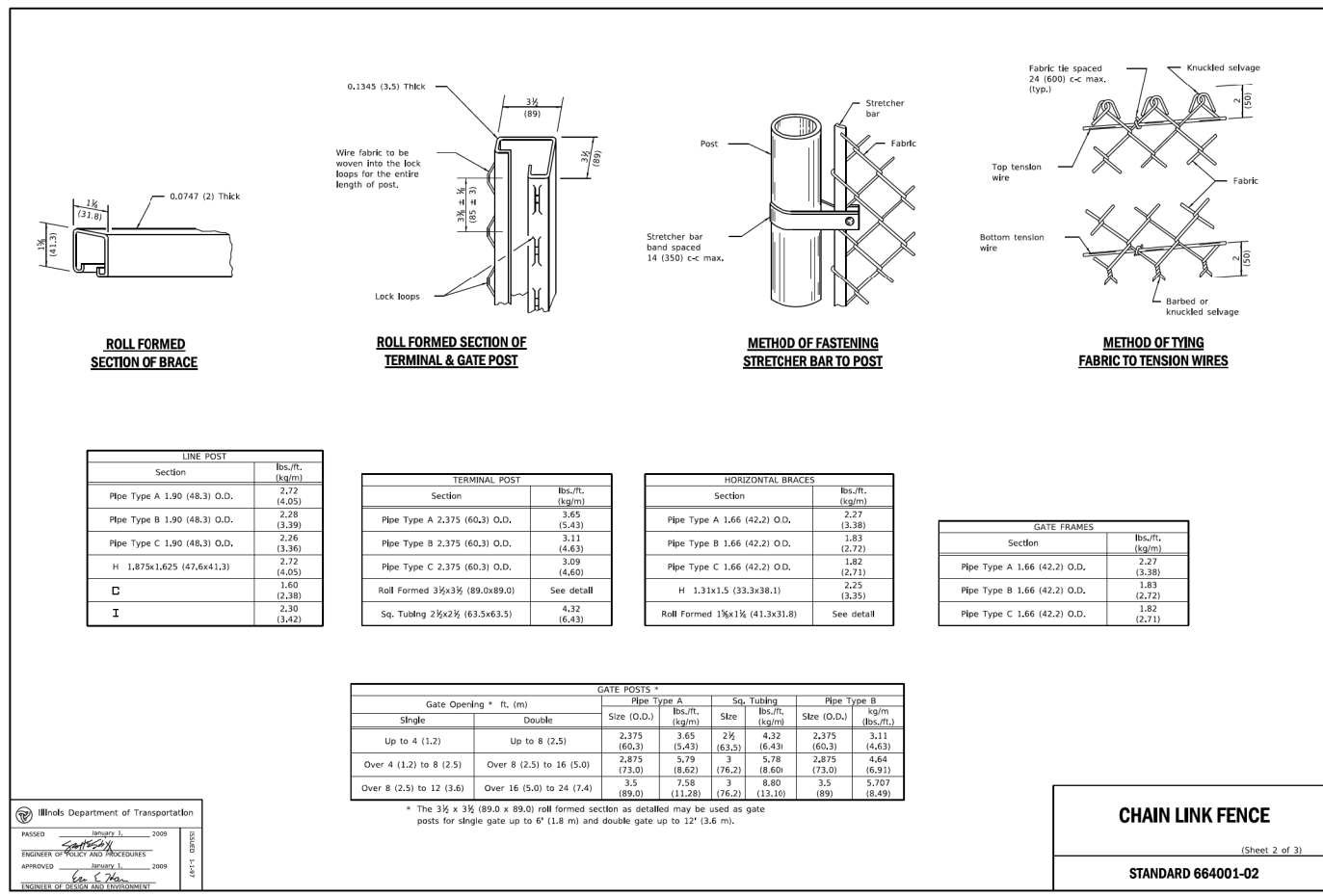
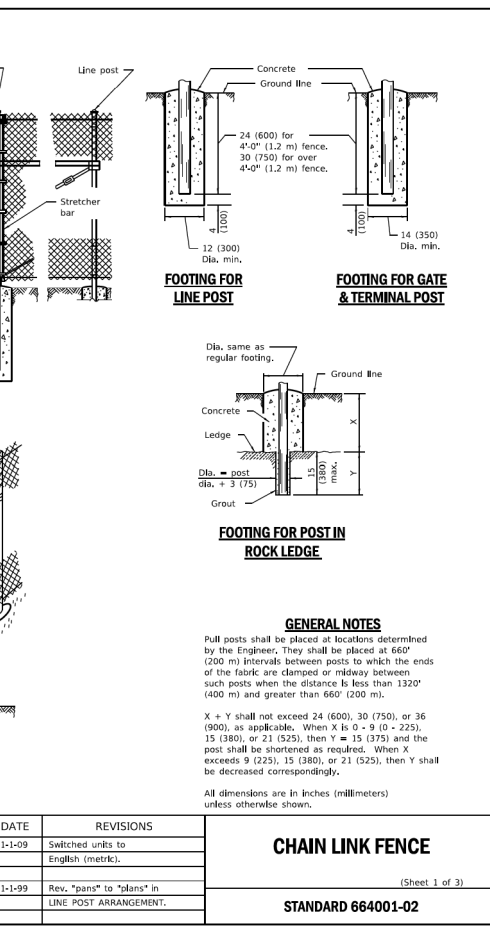
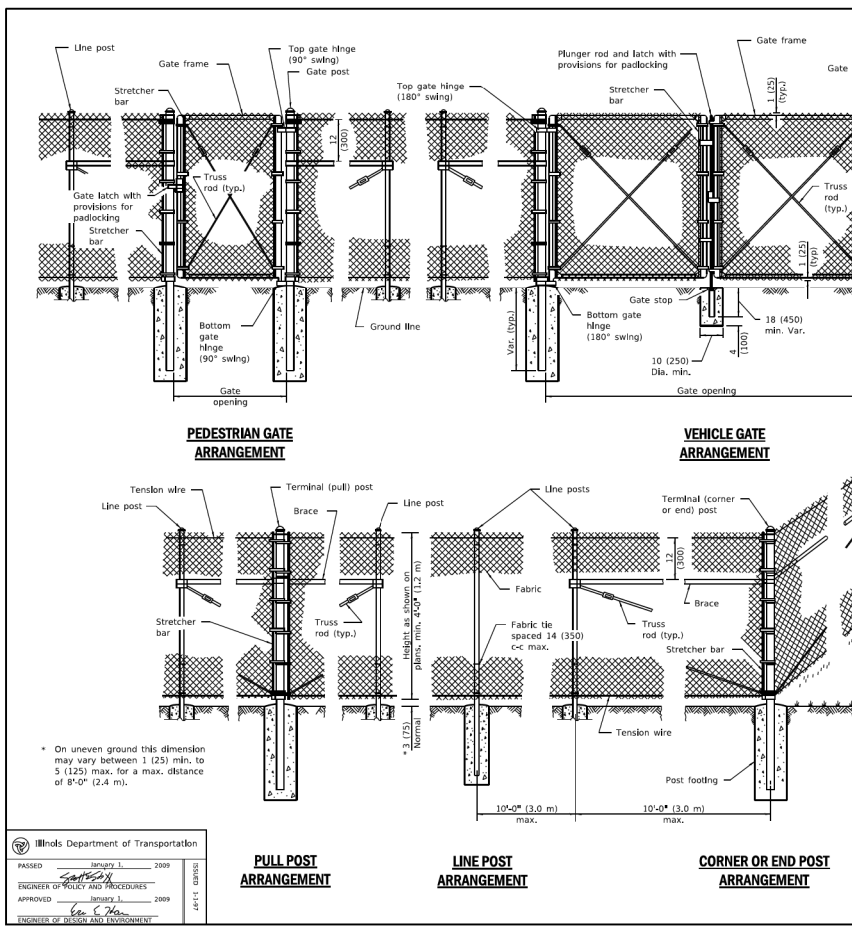
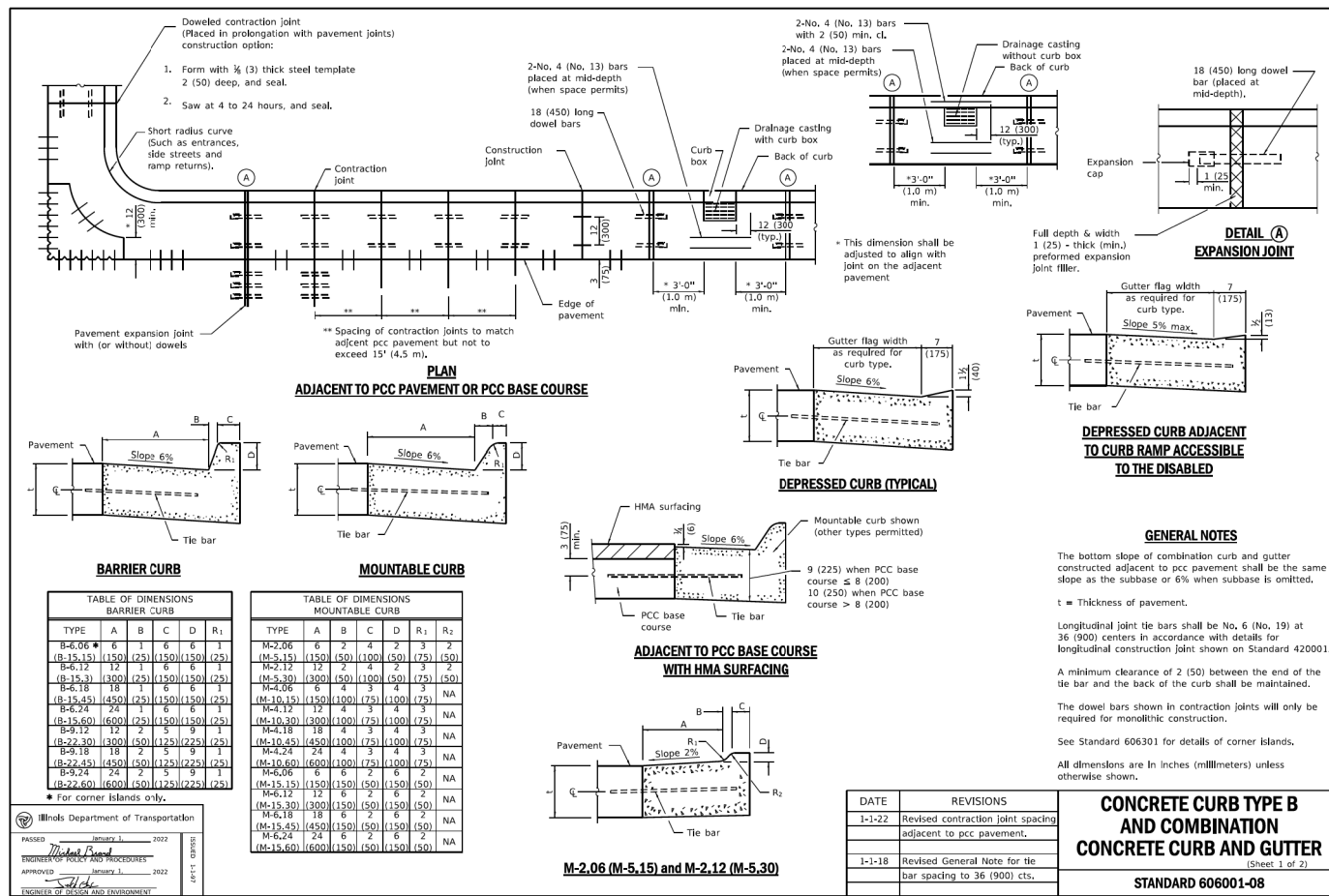
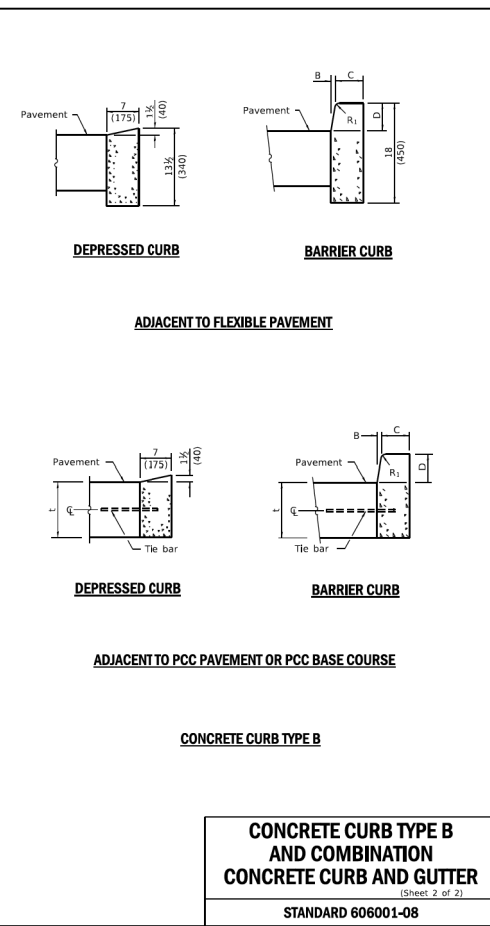
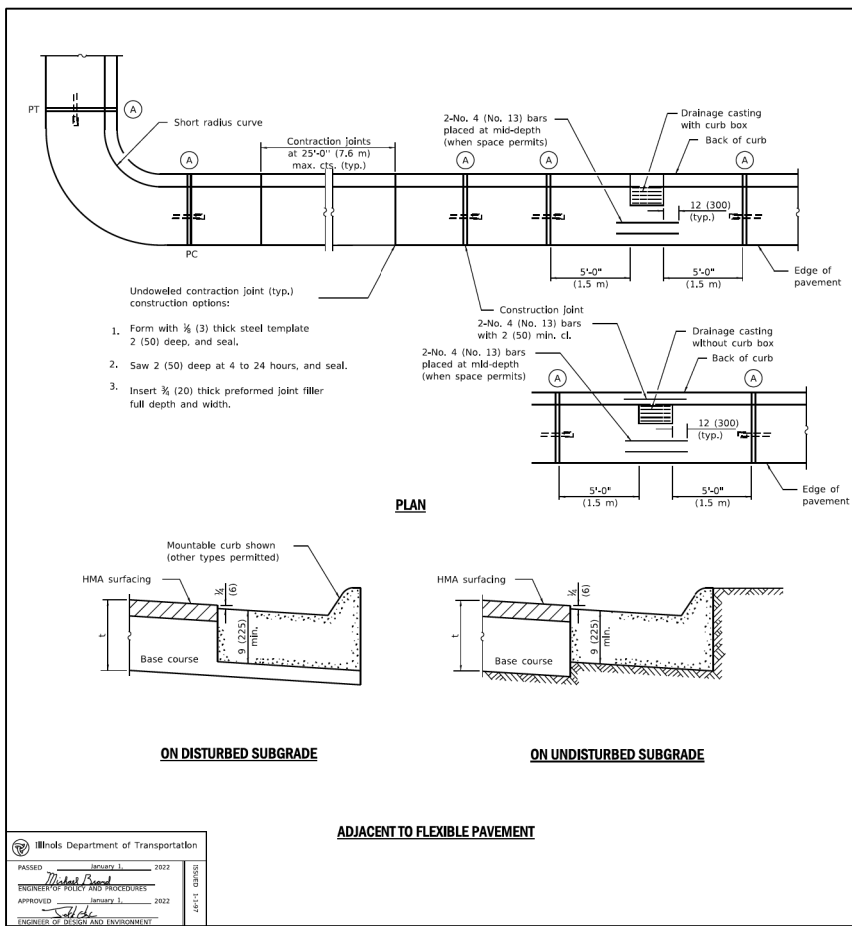


**VILLAGE OF HOFFMAN ESTATES**  
1900 HASSELL ROAD  
HOFFMAN ESTATES, IL 60169

**GENERAL DETAILS**

SCALE: N.T.S. SHEET 6 OF 6 SHEETS STA. TO STA.

RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	42	36
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



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	DATE - 3/20/2026	REVISED -

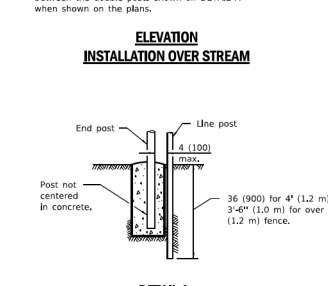
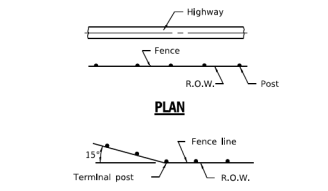
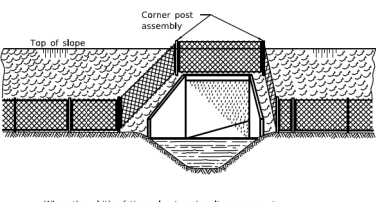
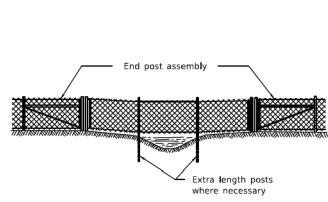
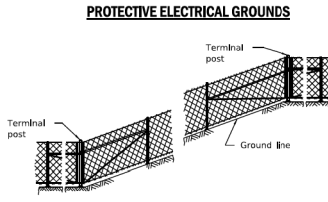
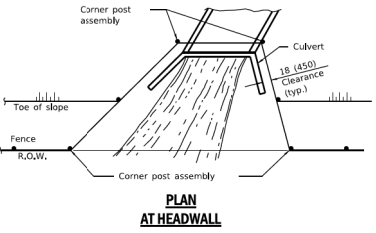
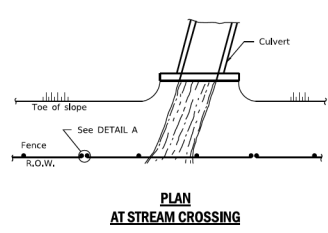
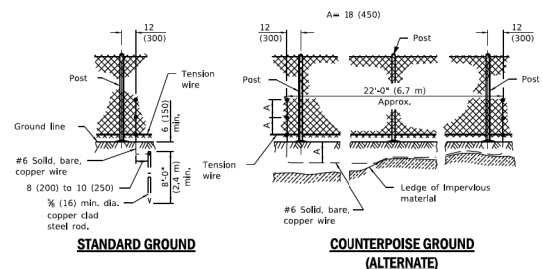


**VILLAGE OF HOFFMAN ESTATES**  
 1900 HASSELL ROAD  
 HOFFMAN ESTATES, IL 60169

**IDOT DETAILS**

SCALE: N.T.S. SHEET 1 OF 4 SHEETS STA. TO STA.

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	42	37
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



When fence line has a change in direction of 15° or more, a terminal post shall be placed as shown above.  
Where angle is less than 15° and existing conditions require a terminal post, they shall be placed as directed by the Engineer.

The chain link fabric shall be replaced by barbed wire strands at 12 (300) maximum centers between the double posts shown on DETAIL A when shown on the plans.

When the width of the culvert makes it necessary to anchor a post to the top of the culvert, a cast iron shoe or other device approved by the Engineer shall be used.

Illinois Department of Transportation  
PASSED January 1, 2009  
ENGINEER OF ROADS AND PROCEDURES  
APPROVED January 1, 2009  
ENGINEER OF ROADS AND PROCEDURES

**CHAIN LINK FENCE**  
(Sheet 3 of 3)  
**STANDARD 664001-02**

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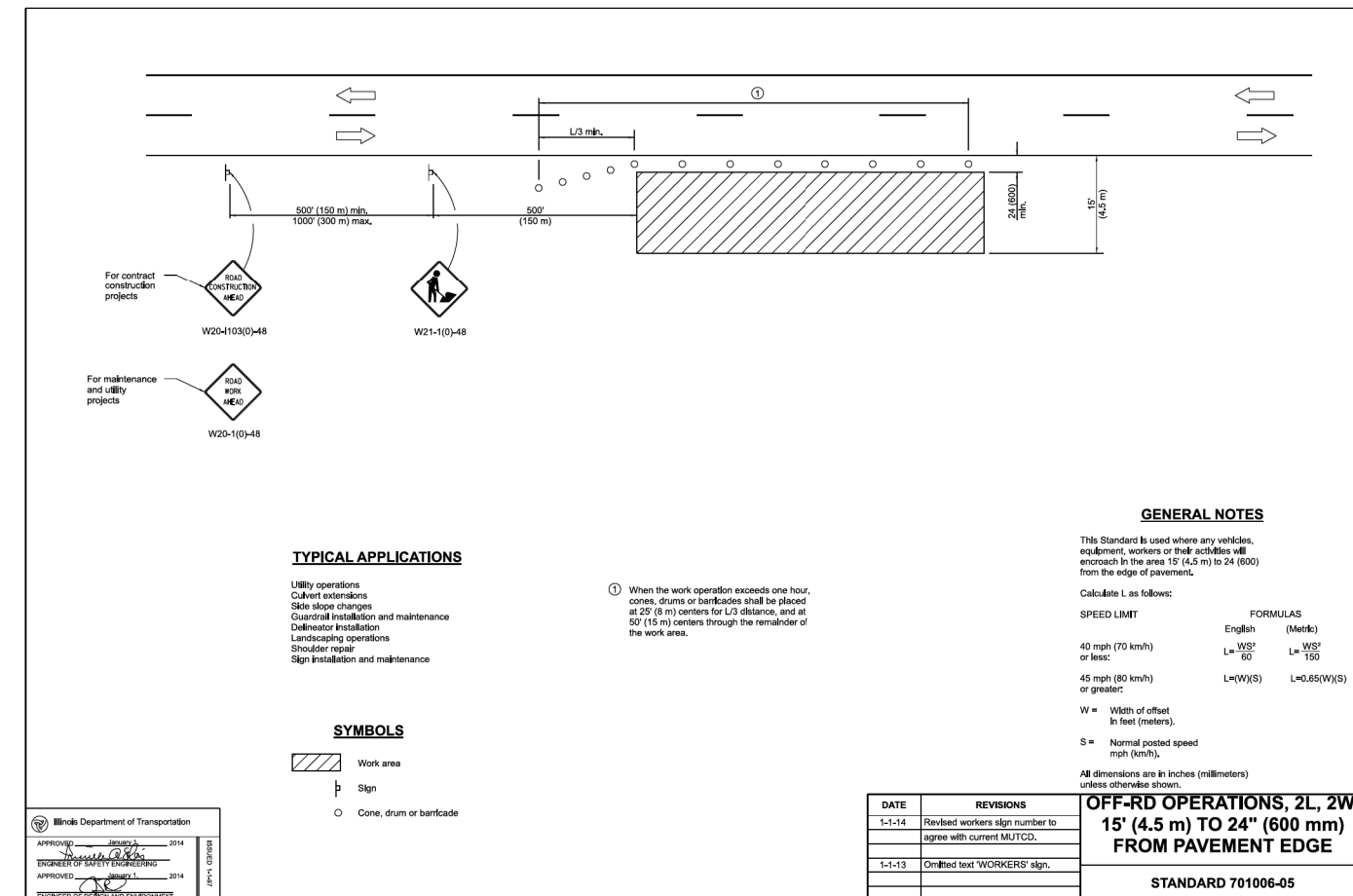
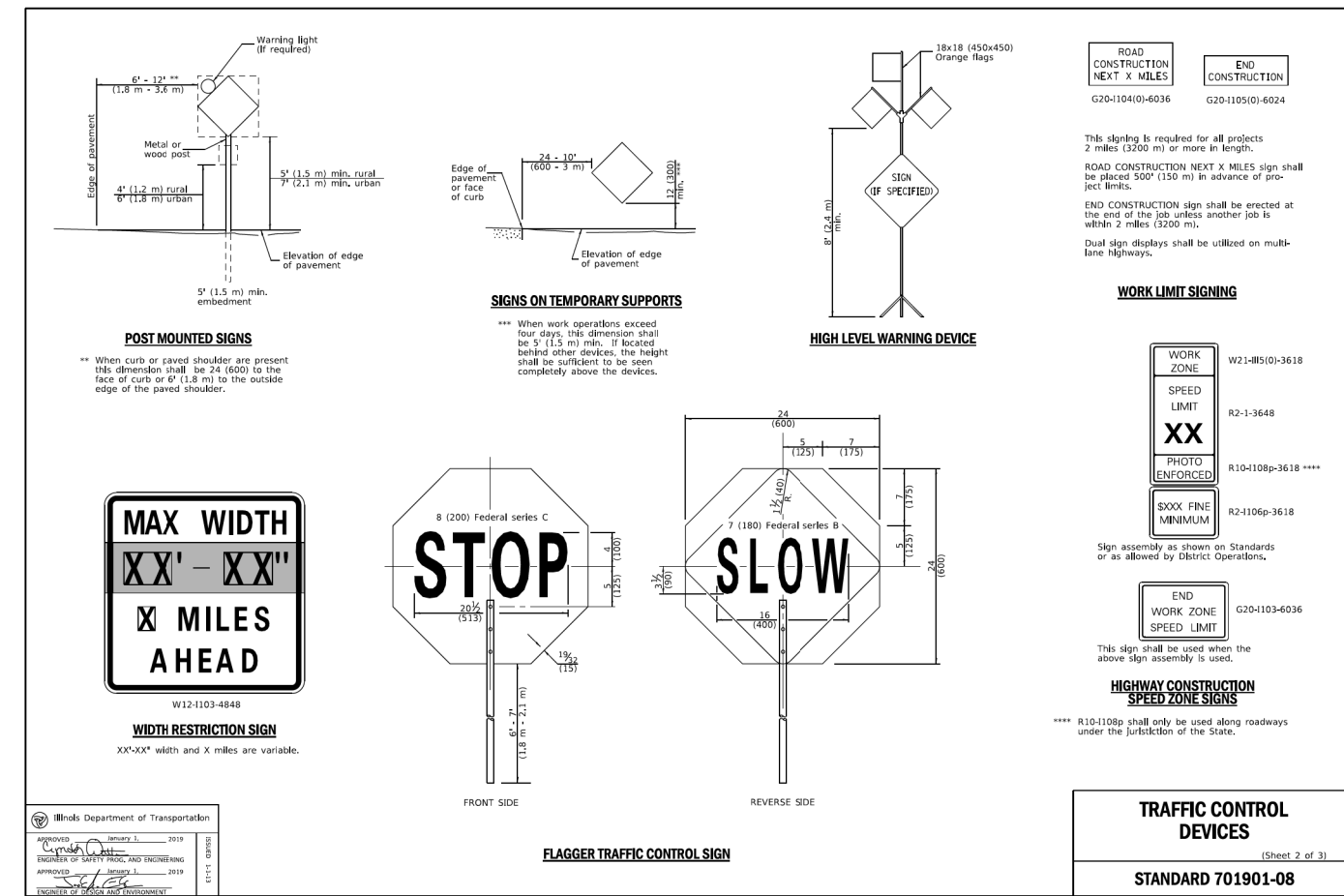
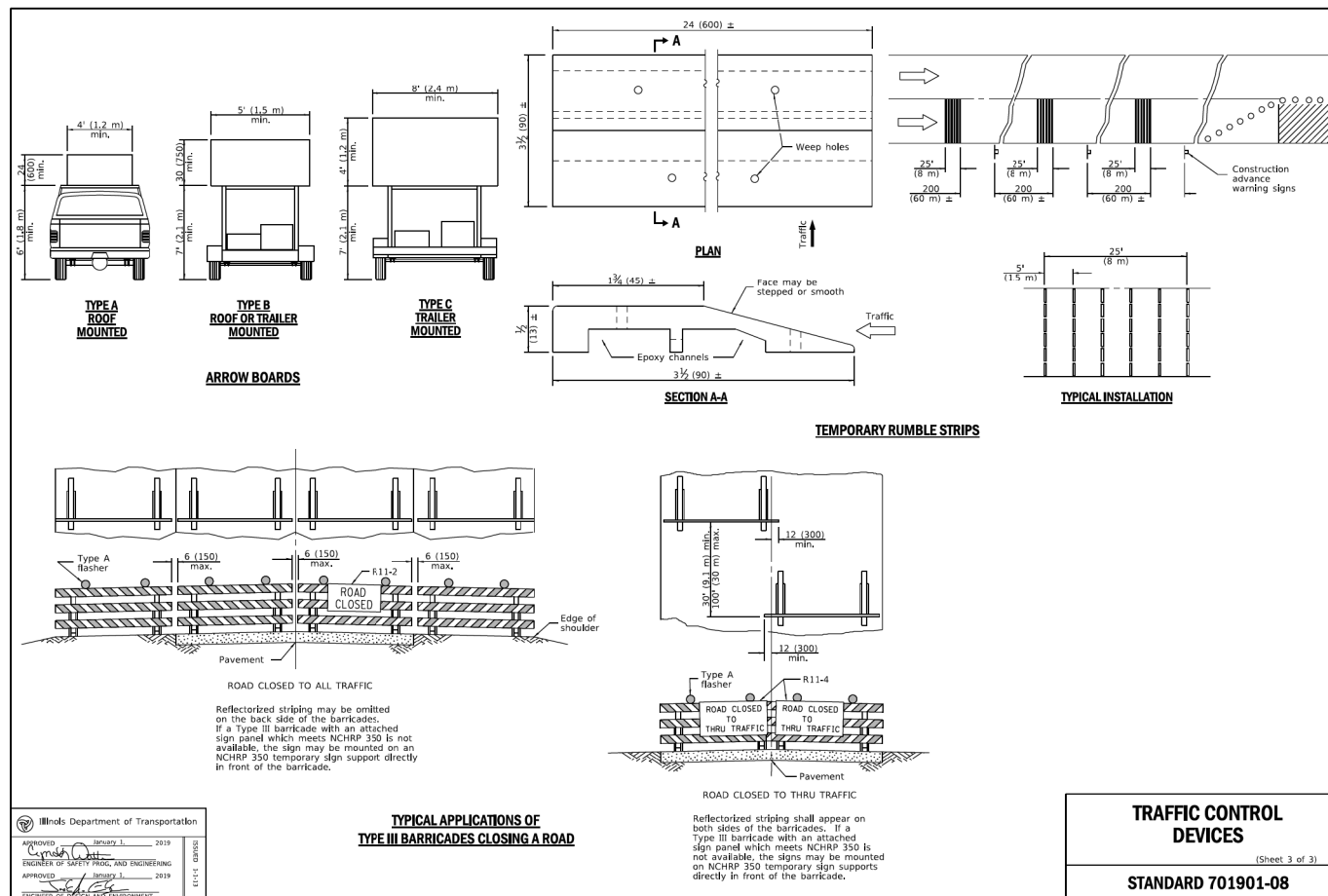
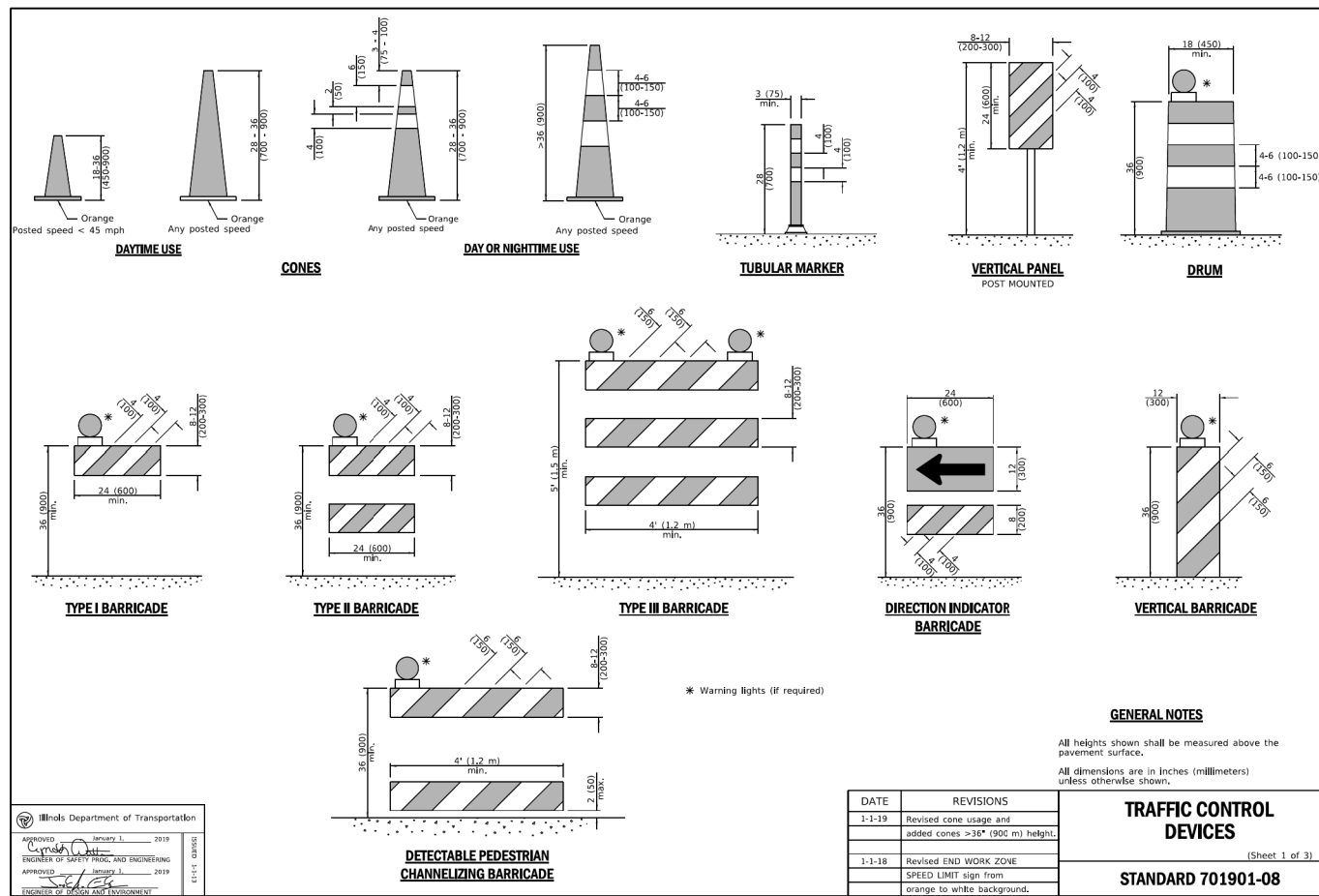
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	DATE - 3/20/2026	REVISED -



**VILLAGE OF HOFFMAN ESTATES**  
**1900 HASSELL ROAD**  
**HOFFMAN ESTATES, IL 60169**

<b>IDOT DETAILS</b>			
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		COOK	42
CONTRACT NO.			
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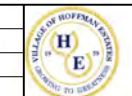
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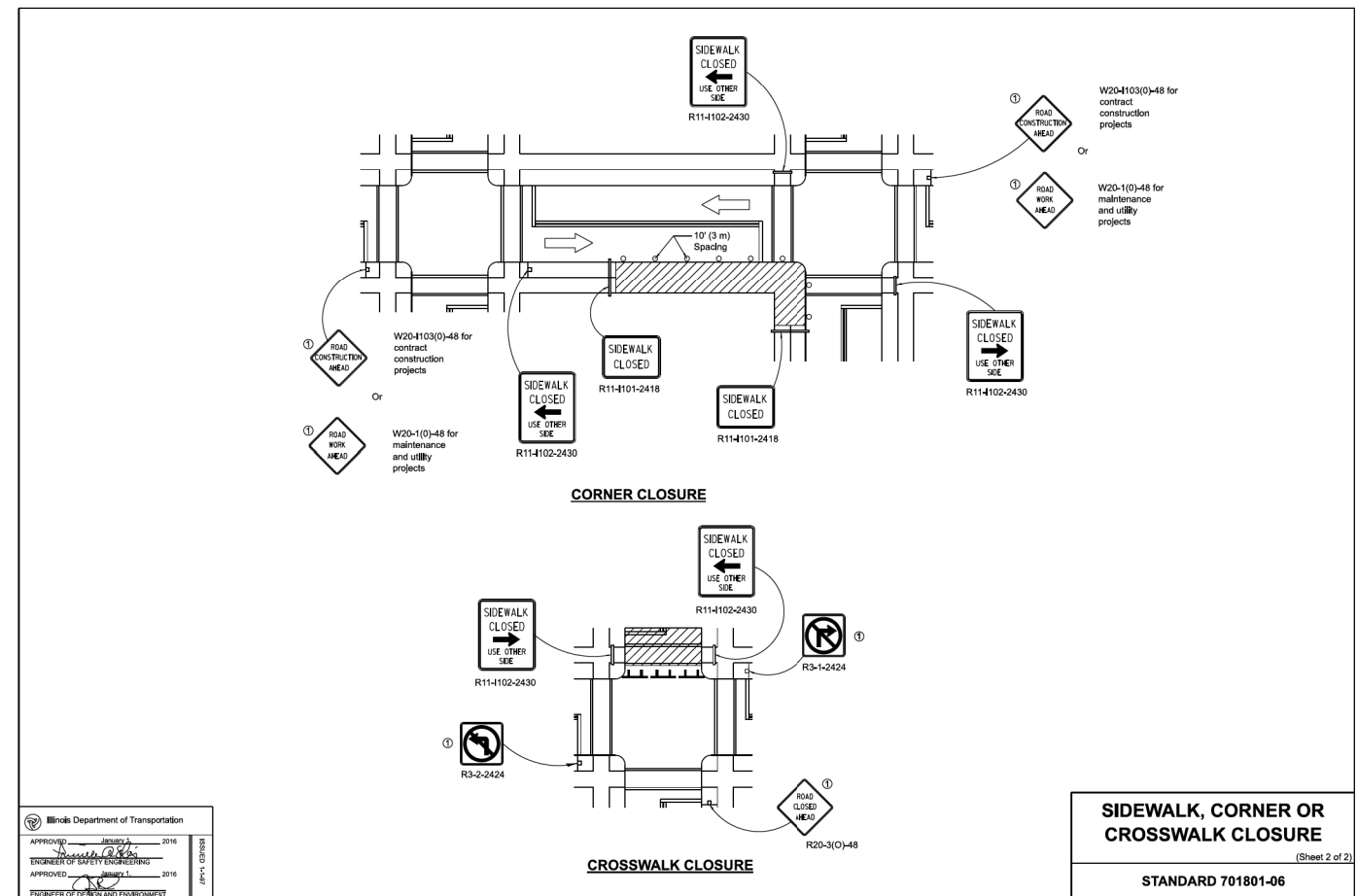
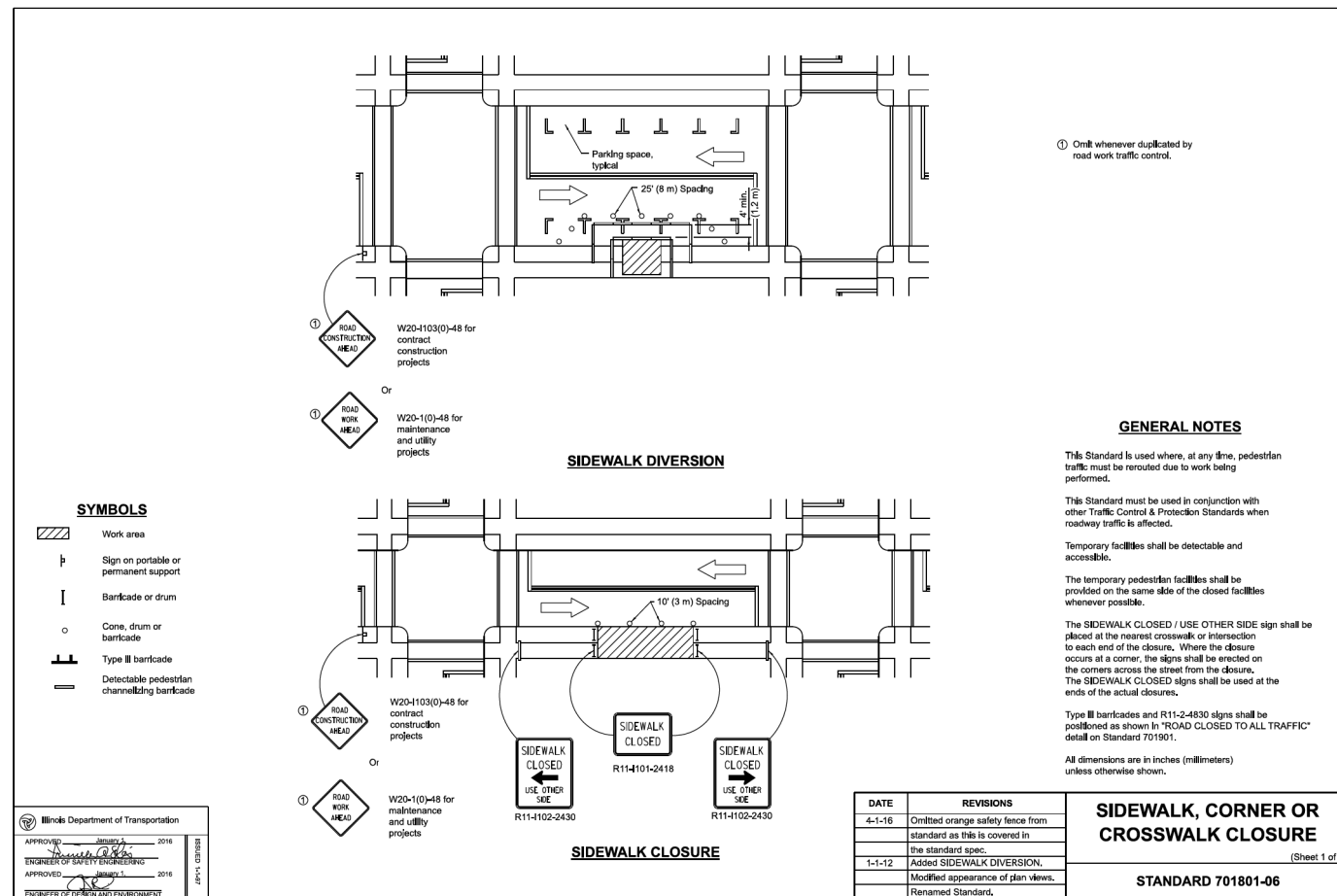
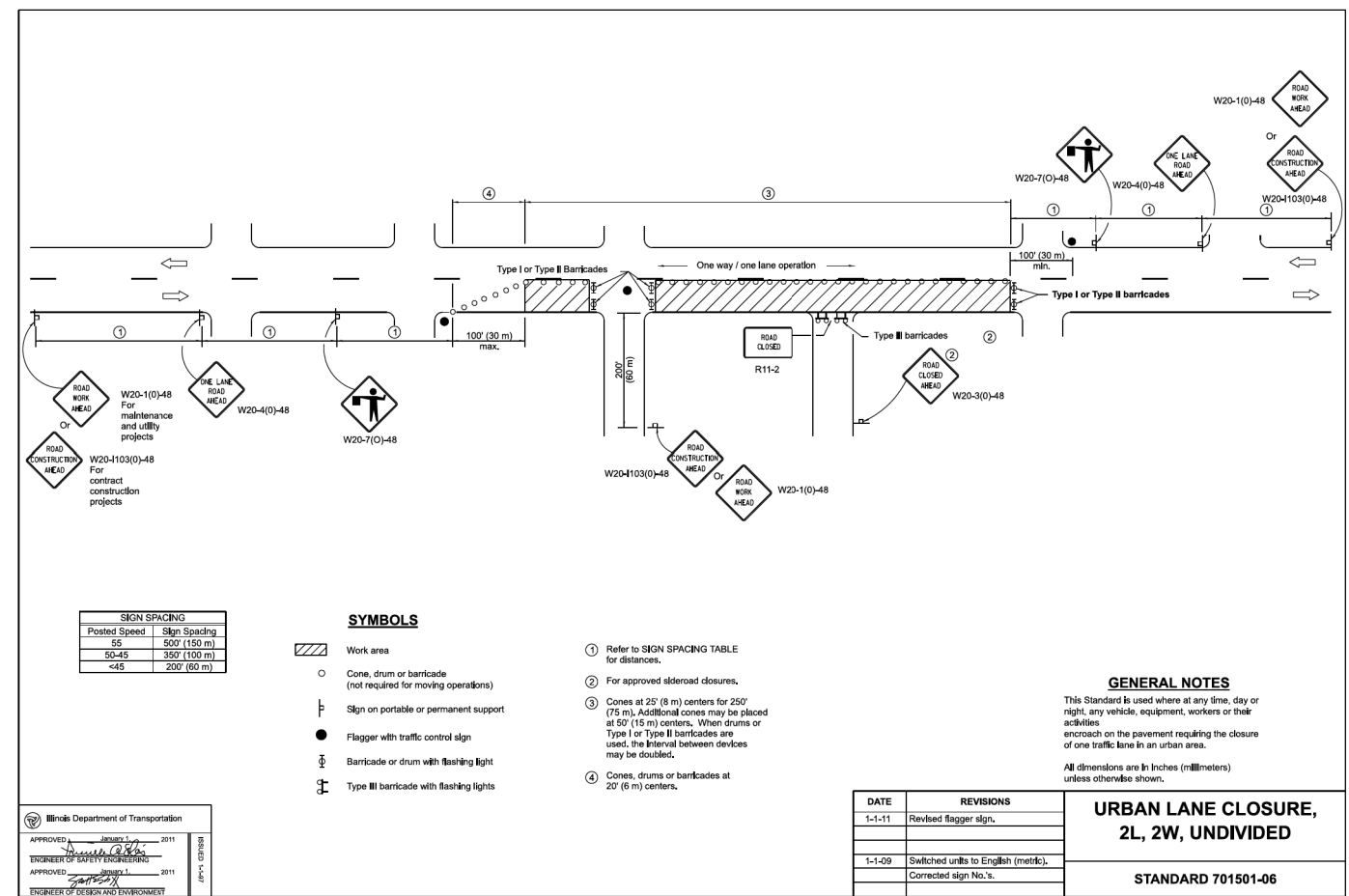
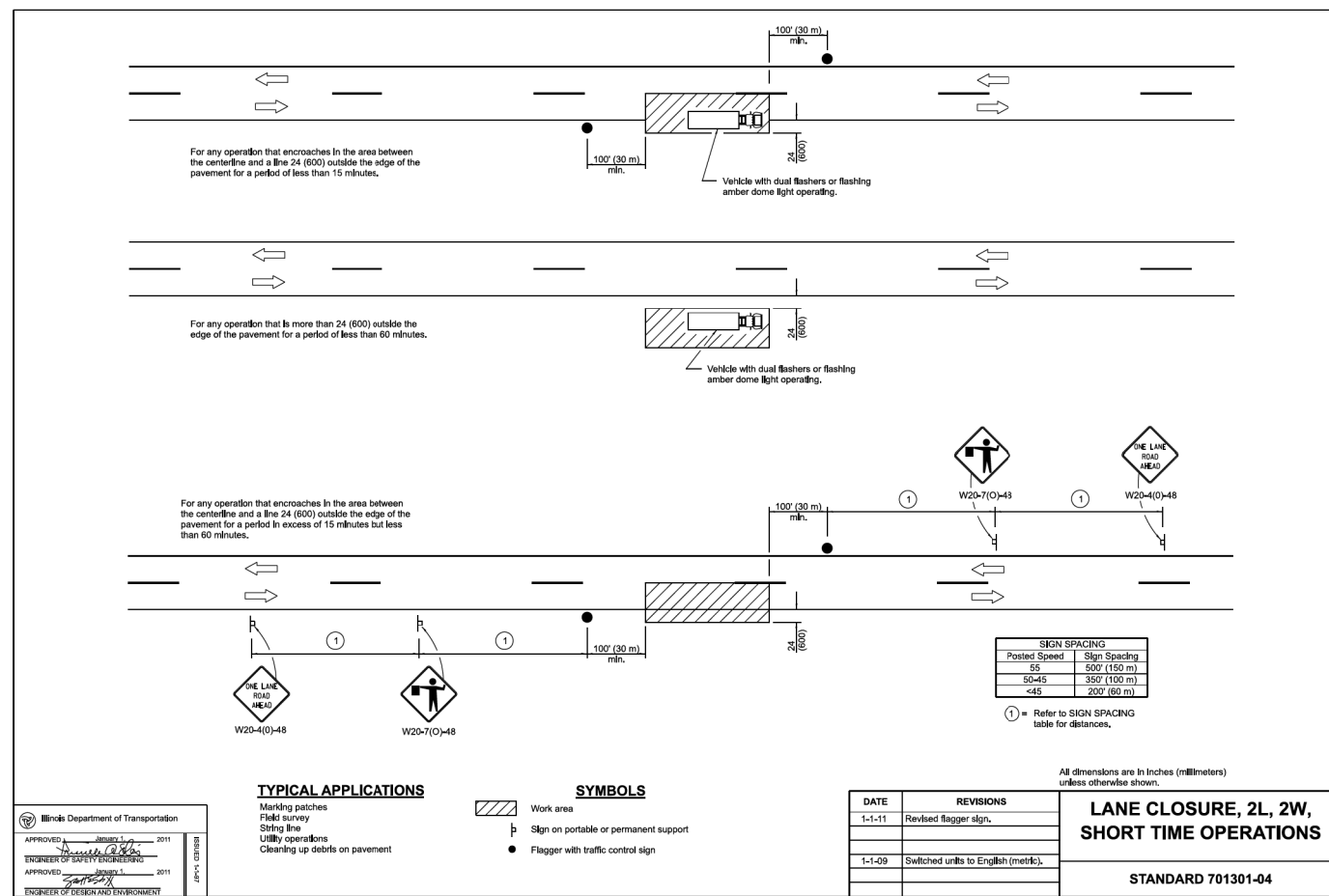
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	DATE - 3/20/2026	REVISED -



VILLAGE OF HOFFMAN ESTATES  
 1900 HASSELL ROAD  
 HOFFMAN ESTATES, IL 60169

SCALE: N.T.S. SHEET 3 OF 4 SHEETS STA. TO STA.

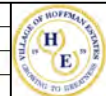
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CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



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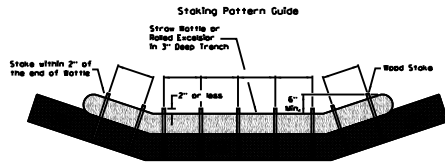
VILLAGE OF HOFFMAN ESTATES  
 1900 HASSELL ROAD  
 HOFFMAN ESTATES, IL 60169

IDOT DETAILS

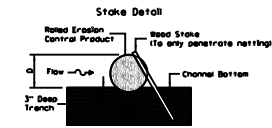
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RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	42	40
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

**ROLLED EROSION CONTROL PRODUCTS**



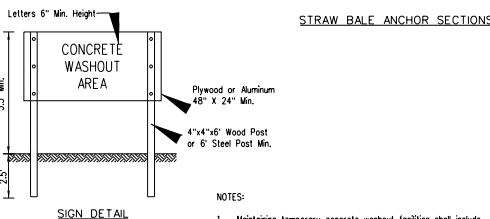
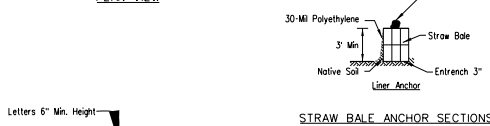
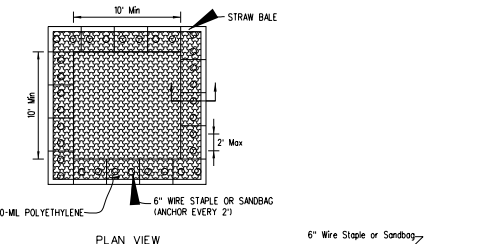
- NOTES:**
1. Overlay minimum is the diameter of the roll.
  2. 4" spacing for weirs.
  3. 2" spacing for raised excavator.
  4. 0" space according to manufacturer's specifications.



- NOTES:**
1. Drawings are not to scale.
  2. Ends of matting or rolled excelsior shall be turned at least 6" up-slope.
  3. Recommended stakes are 1 1/2" x 1/2" x 1 1/2" min. x 30" long.
  4. Stakes shall not extend above the straw matting more than 2".
  5. Spacing: The top of the upstream ditch which shall create a horizontal line with the top of the downstream ditch.

REFERENCE	STANDARD DWG. NO.
Project _____	IUM-514
Designed _____	SHEET 1 OF 1
Checked _____	DATE 2-19-18
Approved _____	

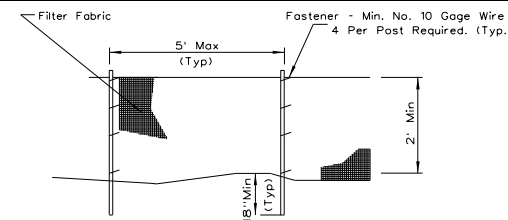
**TEMPORARY CONCRETE WASHOUT FACILITY - STRAW BALE**



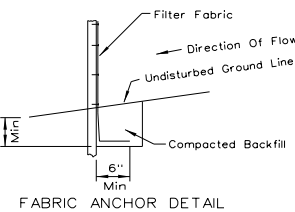
- NOTES:**
1. Maintaining temporary concrete washout facilities shall include removing and disposing of hardened concrete and/or slurry and returning the facilities to a functional condition.
  2. Facility shall be cleaned or reconstructed in a new area once washout becomes two-thirds full.
  3. Each straw bale is to be staked in place using (2) 2"x2"x4" wooden stakes.

REFERENCE	STANDARD DWG. NO.
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Checked _____	DATE 01-08-08
Approved _____	

**SILT FENCE PLAN**



ELEVATION

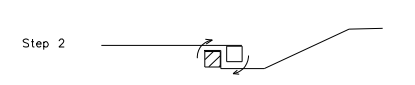
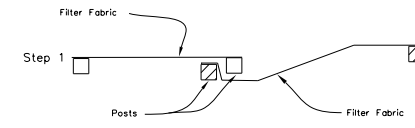


FABRIC ANCHOR DETAIL

- NOTES:**
1. Temporary sediment fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
  2. Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1 or 2, Class with equivalent opening size of at least 30 for nonwoven and 40 for woven.
  3. Fence posts shall be either standard steel post or wood post with a minimum cross-sectional area of 3.0 sq. in.

REFERENCE	STANDARD DWG. NO.
Project _____	IUM-620
Designed _____	SHEET 1 OF 2
Checked _____	DATE 3-16-12
Approved _____	

**SILT FENCE - SPLICING TWO FENCES**

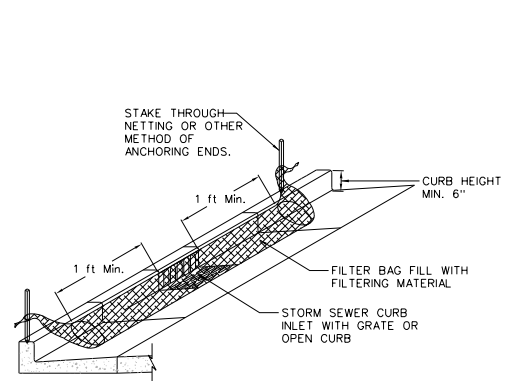


ATTACHING TWO SILT FENCES

- NOTES:**
1. Place the end post of the second fence inside the end post of the first fence.
  2. Rotate both posts at least 180 degrees in a clockwise direction to create a tight seal with the fabric material.
  3. Cut the fabric near the bottom of the stakes to accommodate the 6" flap.
  4. Drive both posts a minimum of 18 inches into the ground and bury the flap.
  5. Compact backfill (particularly at splices) completely to prevent stormwater piping.

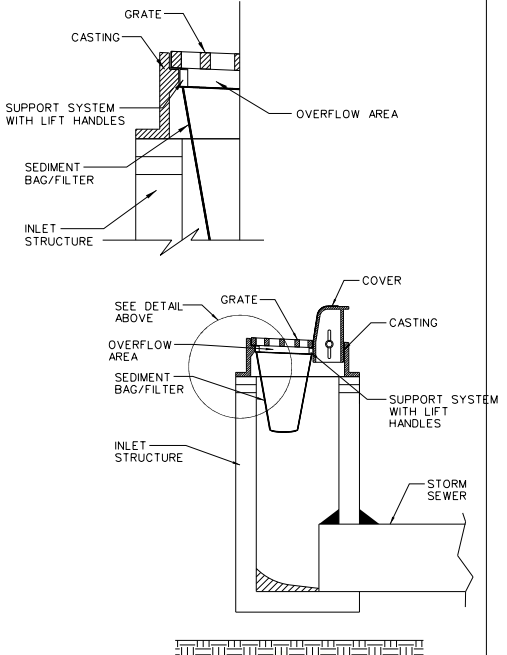
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Designed _____	SHEET 1 OF 2
Checked _____	DATE 3-16-12
Approved _____	

**INLET PROTECTION - PAVED AREAS CURB PROTECTION**



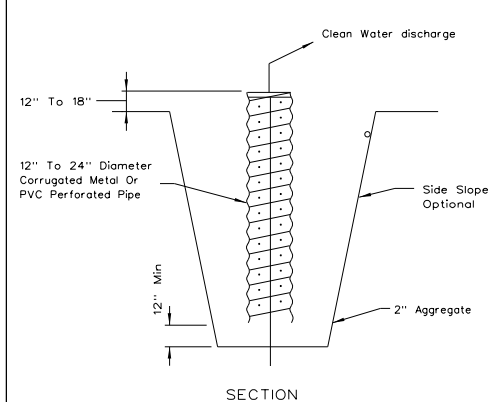
REFERENCE	STANDARD DWG. NO.
Project _____	IUM-561C
Designed _____	SHEET 1 OF 1
Checked _____	DATE 01-11-11
Approved _____	

**INLET PROTECTION - PAVED AREAS DROP-IN PROTECTION**



REFERENCE	STANDARD DWG. NO.
Project _____	IUM-561D
Designed _____	SHEET 1 OF 1
Checked _____	DATE 01-11-11
Approved _____	

**SUMP PIT PLAN**



- NOTES:**
1. Pit dimensions are optional.
  2. The standpipe will be constructed by perforating a 12"-24" diameter corrugated metal or PVC pipe.
  3. A base of 2" aggregate will be placed in the pit to a minimum depth of 12". After installing the standpipe, the pit surrounding the standpipe will then be backfilled with 2" aggregate.
  4. The standpipe will extend 12" to 18" above the lip of the pit.
  5. If discharge will be pumped directly to a storm drainage system, the standpipe will be wrapped with filter fabric before installation.
  6. If desired, 1/4"-1/2" hardware cloth may be placed around the standpipe prior to attaching the filter fabric. This will increase the rate of water seepage into the pipe.

REFERENCE	STANDARD DWG. NO.
Project _____	IL-650
Designed _____	SHEET 1 OF 1
Checked _____	DATE 8-11-94
Approved _____	

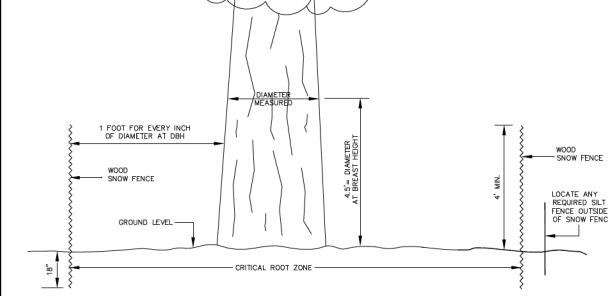
TREE PROTECTION FENCING SHALL CONSIST OF WOODEN SNOW FENCE SECURED TO METAL POSTS AT A MAXIMUM OF 8' INTERVALS. EROSION CONTROL FENCING IN CONJUNCTION WITH TREE PROTECTION FENCING MUST NOT BE REMOVED INTO THE GROUND. AN ALTERNATE VILLAGE APPROVED METHOD MUST BE UTILIZED. AT A MINIMUM, SIGNS WHICH ARE LEGIBLE AT 10 FEET SHALL BE POSTED AND MAINTAINED AT INTERVALS NO LESS THAN 30 FT. WHICH CLEARLY STATE: "TREE PROTECTION AREA. DO NOT ENTER. DO NOT MOVE OR ALTER FENCE. VIOLATION SUBJECT TO FINE OR WORK STOPPAGE."

THE VILLAGE MAY, AT ITS OPTION, INSTALL THE FENCING UTILIZING FUNDS DEPOSITED WITH THE VILLAGE BY THE DEVELOPER FOR THAT PURPOSE. ALL TREE PROTECTION FENCING MUST BE INSTALLED AND MAINTAINED PRIOR TO ANY CONSTRUCTION AS APPROVED BY THE VILLAGE AS PART OF THE APPROVAL PROCESS. IN NO CASE SHALL TREE PROTECTION FENCING BE REMOVED, BREACHED, TEMPORARILY BENT, ALTERED, OR RELOCATED WITHOUT WRITTEN AUTHORIZATION FROM THE DEPARTMENT OF COMMUNITY DEVELOPMENT OF THE VILLAGE.

THE REMOVAL, TEMPORARY REMOVAL, ALTERATION OR RELOCATION OF AN INSTALLED TREE PROTECTION FENCE WITHOUT WRITTEN AUTHORIZATION FROM THE DEPARTMENT OF COMMUNITY DEVELOPMENT OF THE VILLAGE SHALL INCUR A PENALTY OF \$100.00 PER OCCURRENCE. THE DEVELOPER/BUILDER SHALL BE RESPONSIBLE FOR PAYING THIS PENALTY.

ENTERING A TREE PRESERVATION AREA THAT WAS REQUIRED TO BE FENCED SHALL RESULT IN AN ADDITIONAL PENALTY OF \$50 PER DIAMETER INCH FOR ANY TREE THAT IS DAMAGED IN THE OPINION OF THE VILLAGE. INCLUDING BUT NOT LIMITED TO: GRADING, REMOVING LIMB OR BARK REMOVAL, STORAGE OF MATERIALS OR PARKING OF VEHICLES. THE COST OF ANY NECESSARY REMEDIAL TREE CARE ACTION, IN THE OPINION OF THE VILLAGE, SHALL BE THE RESPONSIBILITY OF THE BUILDER/DEVELOPER.

**NOTE:**  
INSTALL & MAINTAIN 4' TALL WOODEN SNOW FENCE SECURED TO METAL POSTS AT A MAXIMUM OF 8' INTERVALS. FENCE TO BE LOCATED AT A DISTANCE FROM TRUNK EQUAL TO 1 FOOT FOR EVERY INCH OF DIAMETER MEASURED AT DBH (DIAMETER AT BREAST HEIGHT, 4.5' FROM GROUND LEVEL), AS SHOWN ON THE APPROVED SITE PLAN.



SCALE	NONE	NO.	REVISIONS	BY	DATE
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DRAFTER	SLW				
VILLAGE OF HOFFMAN ESTATES	TRANSPORTATION & ENGINEERING DIVISION	FILE NAME:	TREEPROT.DWG	SHEET NO.	1 OF 1

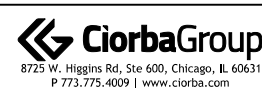
**SOIL EROSION CONTROL AND SEDIMENT CONTROL NOTES**

1. SOIL EROSION AND SEDIMENT CONTROL (SESC) FEATURES MUST BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF UPLAND DISTURBANCE. SOIL DISTURBANCE MUST BE PHASED OR ENACTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES MUST CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY AND/OR PERMANENT MEASURES.
2. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSTALLED AT MINIMUM ACCORDING TO THE STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL, REVISED TO LATEST VERSION AS AMENDED. A COPY OF THE APPROVED SOIL EROSION AND SEDIMENT CONTROL (SESC) PLAN MUST BE MAINTAINED ON THE SITE AT ALL TIMES.
3. THE EROSION AND SEDIMENT CONTROLS SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED AS DIRECTED BY THE VILLAGE, OR THEIR AUTHORIZED REPRESENTATIVE. ALL ADDITIONAL MEASURES MUST BE IN PLACE WITHIN 3 DAYS OF DISTURBANCE AND ANY EMERGENCY SESC MEASURES MUST BE INSTALLED IMMEDIATELY.
4. THE CONTRACTOR MUST MAINTAIN A CLEAN \*\*SITE\*\*, GRADE THE WORK AREAS AS THE PROJECT PROGRESSES, AND INSTALL EROSION PROTECTION TO ELIMINATE THE CONCENTRATION OF RUNOFF, OR MUST INSTALL APPROPRIATE SEDIMENT CONTROL DEVICES TO TRAP SEDIMENT.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING DUST/DIRT CONTROL MEASURES. THE PAVEMENT MUST BE CLEANED DAILY OR AS NECESSARY TO REMOVE TRACK-OUT MATERIAL. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE COST OF EXCAVATION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SIZE THE PUMPS APPROPRIATELY.
6. AFTER ALL PERIMETER EROSION BARRIER IS REMOVED, THE AREAS DAMAGED BY THE PERIMETER EROSION BARRIER MUST BE RESTORED.
7. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DIVERT ALL WATER GROUND, STORM AND CONSTRUCTION DURING CONSTRUCTION IN ORDER TO KEEP THE CONSTRUCTION AREAS FROM FREE OF WATER, BYPASS PUMPING INCLUDING FILTER BAGS AND FILTER TANKS (AS NECESSARY). THIS WORK SHALL NOT BE MEASURED AND PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE COST OF EXCAVATION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SIZE THE PUMPS APPROPRIATELY.
8. DURING DEWATERING/PUMPING OPERATIONS, ONLY UNCONTAMINATED WATER SHOULD BE ALLOWED TO DISCHARGE TO PROTECTED NATURAL AREAS, WATERS OF THE STATE OR TO A STORM SEWER SYSTEM (IN ACCORDANCE WITH LOCAL PERMITS). INLET HOSES SHOULD BE PLACED ON A \*\*STABILIZED\*\* SUMP PIT TO LIMIT THE AMOUNT OF SEDIMENT INTAKE. PUMPING OPERATIONS MAY BE DISCHARGED TO A STABILIZED AREA THAT CONSISTS OF AN ENERGY DISSIPATING DEVICE, E.G. STONE, SEDIMENT FILTER BAGS OR FILTER TANK (AS NECESSARY). ADEQUATE EROSION AND SEDIMENT CONTROLS SHOULD BE USED DURING DE-WATERING OPERATIONS AS NECESSARY. DEWATERING SEDIMENT LADEN WATER DIRECTLY INTO STORM WATER STRUCTURES, OR "WATERS OF THE US" IS PROHIBITED.
9. ANY WORK WITHIN A STREAM OR DITCH CAPABLE OF CONVEYING WATER MUST BE \*\*CONDUCTED\*\* IN THE \*\*DRY\*\*-. PROVISIONS MUST BE MADE TO BYPASS PUMP OR DEWATER ANY AREAS WITHIN THE STREAM OR DITCH IN WHICH WORK WILL BE CONDUCTED.
10. CONSTRUCTION ACTIVITIES MUST BE SCHEDULED TO MINIMIZE THE TIME SOIL IS EXPOSED AND UNPROTECTED.
11. TEMPORARY CONSTRUCTION ENTRANCES WILL BE CONSTRUCTED AT ALL LOCATIONS WHERE CONSTRUCTION TRAFFIC ENTERS OR LEAVES THE SITE. GRAVELED ROADS, ACCESS DRIVES, PARKING AREAS OF SUFFICIENT WIDTH AND LENGTH AND VEHICLE WASH DOWN FACILITIES OF NECESSARY, MUST BE PROVIDED TO PREVENT THE DEPOSIT OF SOIL FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS. ANY SOIL REACHING PUBLIC OR PRIVATE ROADWAY MUST BE REMOVED IMMEDIATELY.
12. STOCK PILES OR SOIL MUST NOT BE LOCATED IN FLOOD PLAINS, RIPARIAN AREAS (VEGETATED FLOOD PLAINS), WETLANDS AND WATERS OF THE US, UNLESS OTHERWISE AUTHORIZED BY THE RELEVANT PERMITTING AUTHORITY. IF A STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN THREE DAYS, PERIMETER EROSION BARRIER MUST BE PROVIDED.
13. CONTRACTOR MUST INSTALL PERIMETER EROSION BARRIER AT ANY LOCATION IN WHICH STREET FLOWS MAY RESULT IN SEDIMENT RUNOFF OUTSIDE THE CONSTRUCTION LIMITS. THE CONTRACTOR MAY USE OTHER METHODS TO CONTROL RUNOFF, INCLUDING, BUT NOT LIMITED TO, TEMPORARY DIVERSION SWALES, TEMPORARY SEDIMENT TRAPS, SHAPED DITCHES TO CONVEY WATER, ETC.
14. ALL STORM SEWER INLET STRUCTURES WITHIN 100 FT OF PROJECT SITE (INCLUDING INLETS LOCATED WITHIN THE HILL ROUTES, AS SHOWN ON THE PLAN) MUST BE PROTECTED WITH STORM SEWER INLET PROTECTION (I.E. INLET FILTERS) PER INLET PROTECTION DETAILS ON THE PLANS. ALTERNATE TYPES OF PROTECTION MAY BE SUBMITTED FOR REVIEW AND APPROVAL BY THE VILLAGE OR THEIR AUTHORIZED AGENT.
15. STREET SWEEPING SHALL OCCUR AS DIRECTED BY THE VILLAGE OR THEIR AUTHORIZED REPRESENTATIVE. COST TO PERFORM WORK SHALL BE INCIDENTAL TO THE CONTRACT (SEE SECTION XXX.XX OF SPECIAL PROVISIONS).

**DEWATERING NOTES**

1. DEWATERING REQUIRED DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND INCLUDED IN THE BID PRICE. CONTRACTOR SHALL APPRAISE HIM OR HERSELF OF SOILS CONDITIONS (SEE REPORT INCLUDED IN THE CONTRACT DOCUMENTS).
2. CONTRACTOR SHALL NOT BE ALLOWED TO USE PROPOSED PUMPS SUPPLIED UNDER THIS CONTRACT FOR THE PURPOSE OF DEWATERING DURING CONSTRUCTION.

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	DATE - 3/20/2026	REVISED -



**VILLAGE OF HOFFMAN ESTATES**  
 1900 HASSELL ROAD  
 HOFFMAN ESTATES, IL 60169

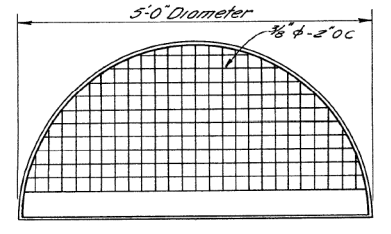
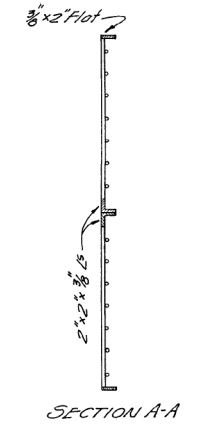
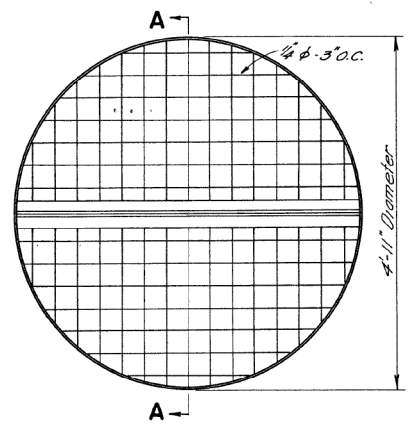
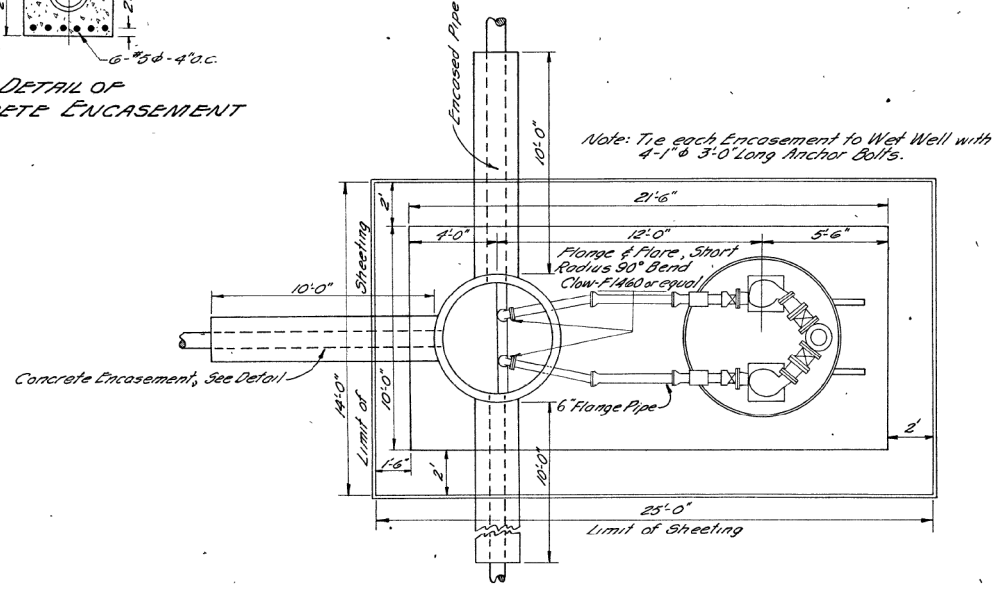
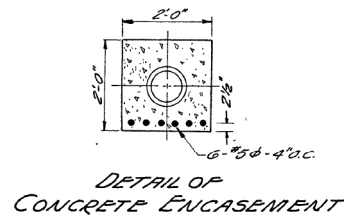
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RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO.				
ILLINOIS		FED. AID PROJECT		

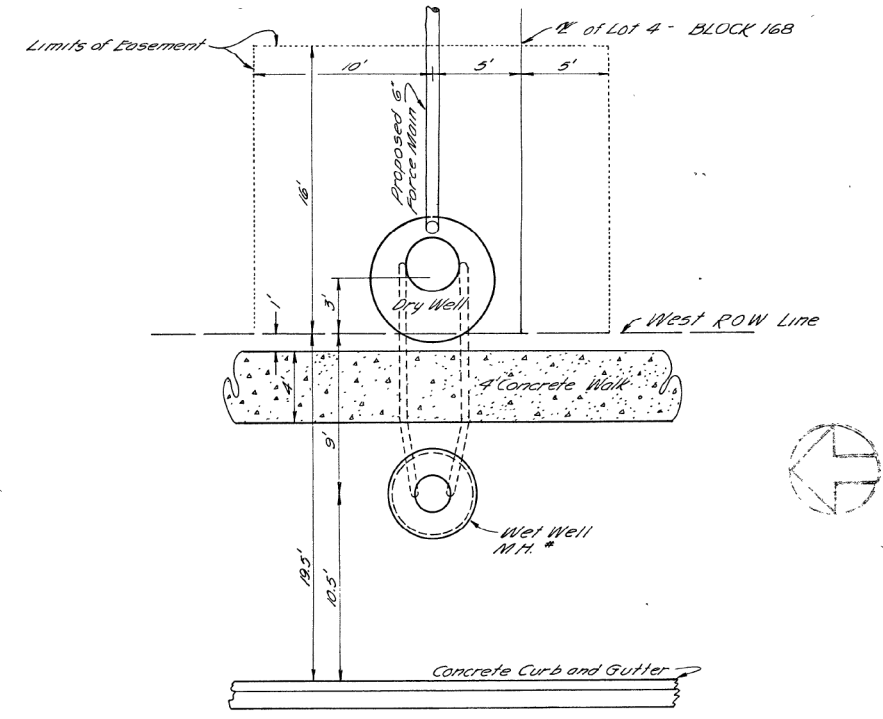
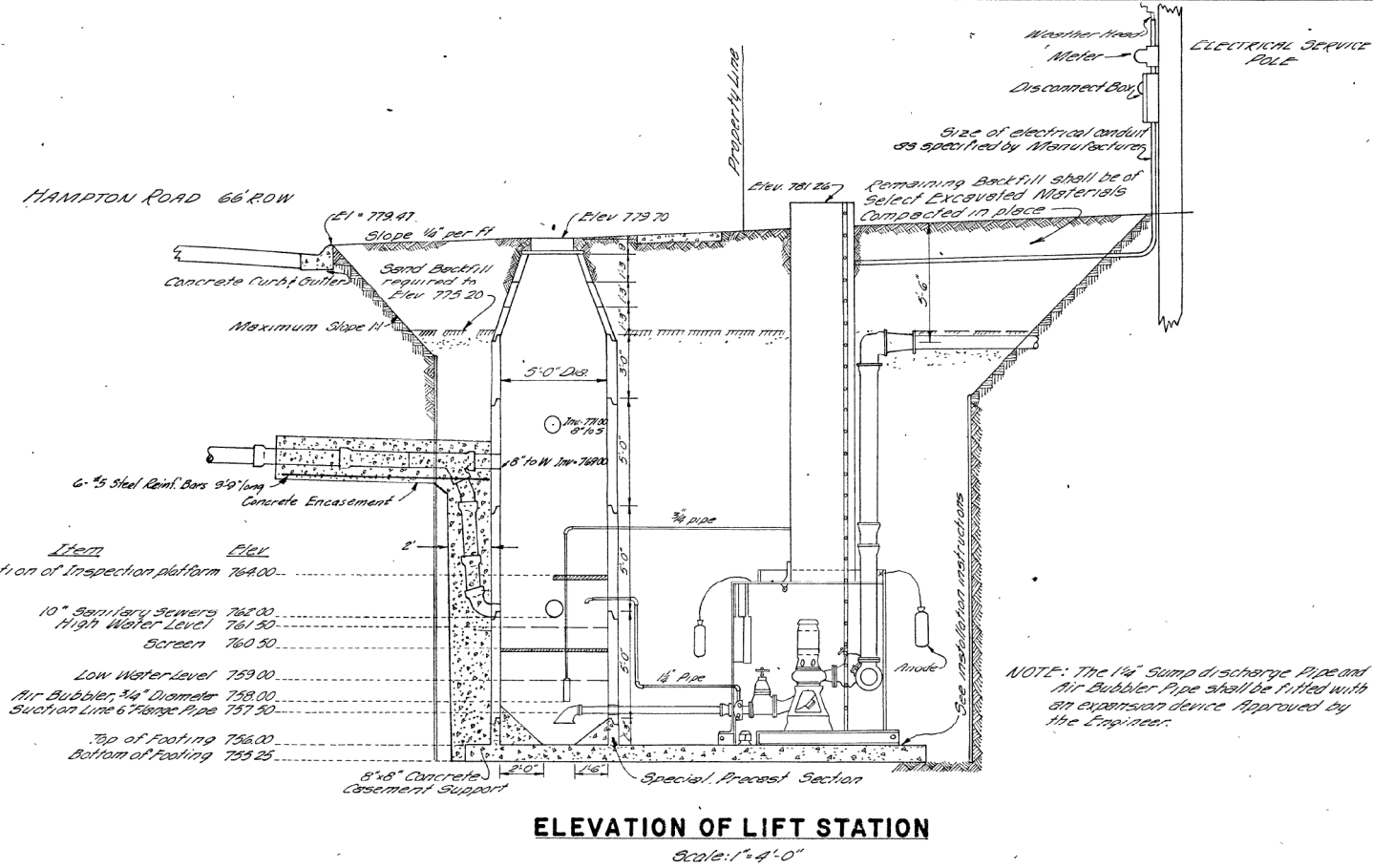
# HOFFMAN ESTATES XIII

## SANITARY LIFT STATION FOR CITIZENS UTILITIES COMPANY

HOFFMAN ESTATES XIII	
SANITARY LIFT STATION	
CIORBA, SPIES & GUSTAFSON CONSULTING ENGINEERS WILMETTE, ILLINOIS	
DRAWING NO. CJ-5-6161	
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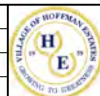
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PLOT DATE = 5/7/2026	CHECKED - KL	REVISED -
	DATE - 3/20/2026	REVISED -



**VILLAGE OF HOFFMAN ESTATES**  
**1900 HASSELL ROAD**  
**HOFFMAN ESTATES, IL 60169**

EXISTING LIFT STATION PLAN (FOR INFORMATIONAL PURPOSES ONLY)	
SCALE: N.T.S.	SHEET 1 OF 1 SHEETS
STA.	TO STA.

RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	42	42
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				