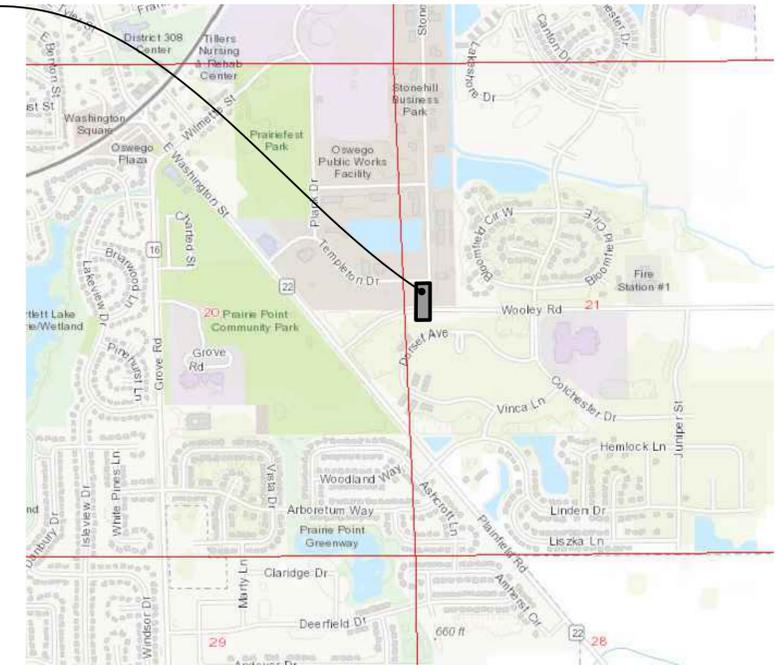


FINAL ENGINEERING PLANS FOR: STONEHILL ROAD LIFT STATION DECOMMISSION AND SANITARY SEWER EXTENSION VILLAGE OF OSWEGO, ILLINOIS KENDALL COUNTY, ILLINOIS CLIENT: VILLAGE OF OSWEGO



LOCATION MAP



Dial 811 or 1-800-892-0123. JULIE DESIGN TICKET NUMBER:# A2080376-00A



Know what's below.
Call before you dig.

WITH THE FOLLOWING:
COUNTY KENDALL COUNTY
VILLAGE-TOWNSHIP OSWEGO-OSWEGO TOWNSHIP
SEC. & 1/4 SEC. NO.# 21-37 N.-8 E.

(2) Working Days before you dig
(Excluding Sat., Sun. & Holidays)

- NOTE:**
- HR GREEN, INC. IS TO BE NOTIFIED 3 DAYS PRIOR TO CONSTRUCTION START.
 - HR GREEN, INC. SHALL BE INCLUDED IN ALL PRE-CONSTRUCTION MEETINGS.
 - ANY KNOWN DISCREPANCIES ON THIS PLAN SET MUST BE BROUGHT TO THE ATTENTION OF HR GREEN, INC. PRIOR TO THE START OF CONSTRUCTION.

CLIENT:
VILLAGE OF OSWEGO
100 PARKERS MILL
OSWEGO, IL 60543
630-554-3618

CIVIL ENGINEER:
HR GREEN
2363 SEQUOIA DRIVE, SUITE 101
AURORA, ILLINOIS 60506
TEL: (630) 553-7560
FAX: (630) 553-7646

DAVID W. SCHULTZ, P.E. - PROJECT MANAGER
TEL: (630) 708-5002

PROJECT CONTACT:
MS. JENNIFER HUGHES
PUBLIC WORKS DIRECTOR
100 PARKERS MILL
OSWEGO, IL 60543
630-554-3618

SURVEYOR:
HR GREEN
2363 SEQUOIA DRIVE, SUITE 101
AURORA, ILLINOIS 60506
TEL: (630) 553-7560
(630) 553-7646

BERNIE BAUER, P.L.S. - PROJECT SURVEYOR
(630) 708-5033

Sheet List Table

Sheet Number	Sheet Title
C-01	COVER SHEET
C-02	LEGENDS, ABBREVIATIONS AND SUMMARY OF QUANTITIES
C-03	SPECIFICATIONS AND NOTES (1)
C-04	SPECIFICATIONS AND NOTES (2)
C-05	SPECIFICATIONS AND NOTES (4)
C-06	SANITARY SEWER PLAN AND PROFILE-BID ALTERNATE #1
C-06.01	SANITARY SEWER PLAN AND PROFILE-BID ALTERNATE #2
C-07	EROSION CONTROL SPECIFICATIONS
C-08	EROSION CONTROL DETAILS
C-09	STANDARD CONSTRUCTION DETAILS
C-10	STANDARD CONSTRUCTION DETAILS
C-11	SOIL BORING DETAILS

SITE BENCHMARKS
SEE SHEET C-02 FOR BENCHMARK INFORMATION



2363 SEQUOIA DRIVE, SUITE 101 AURORA, IL 60506
Phone: 630.553.7560 | Toll Free: 800.728.7805 | Fax: 630.553.7646 | HRGreen.com

CERTIFICATION

PROFESSIONAL ENGINEER'S SIGN & SEAL

David W. Schultz
12/17/2019
EXP: 11/30/2021



NOTE: THIS SIGNATURE & SEAL ONLY APPLIES TO DESIGN INFORMATION PREPARED BY HR GREEN, INC. (SHEETS C-01-C-10)

INFORMATION INCLUDED IN THIS PLAN SET WHICH HAS BEEN COMPLETED BY OTHER CONSULTANTS IS NOT CERTIFIED BY THIS SIGNATURE & SEAL.

SEE INDEX OF SHEETS FOR INFORMATION INCLUDED BY OTHERS

CONTACT INFORMATION			
	CONTACT INFORMATION	TELEPHONE #	
J.U.L.I.E.	DESIGN TICKET #X2920445	ILLINOIS JULIE, 800-892-0123	NATURAL GAS
CITY CONTACT	VILLAGE OF OSWEGO	630-554-3618	NICOR GAS
	MS. JENNIFER HUGHES	630-554-3618	PROJECT #SC15969
	PUBLIC WORKS DIRECTOR/VILLAGE ENGINEER		BRUCE KOPPANG 630-388-3046
SANITARY	TIMOTHY ZASADA	630-551-2182	DOT LIAISON - ENGINEERING
	ASSISTANT PUBLIC WORKS DIRECTOR-UTILITY		1844 FERRY RD
	100 PARKERS MILL OSWEGO, IL 60543		NAPERVILLE, IL 60563
ELECTRICAL POWER	FOX METRO WATER RECLAMATION DISTRICT		TELEPHONE
	KEITH ZOLLERS	630-301-6810	ATT/DISTRIBUTION
	ENGINEERING AND FIELD SUPERVISOR		630-573-5450
CABLE	MICHAEL L. FRANKINO	630-301-6805	JANET AHERN
	ASSISTANT ENGINEERING SUPERVISOR		1000 COMMERCE DRIVE, FLOOR 1
	1135 S. LAKE ST. MONTGOMERY, IL 60538		OAK BROOK, IL 60523
FIBER	COMED		MM3781@ATT.COM
	DESIGN STAGE LOCATE LINE	630-576-7094	CABLE
	COMED REPRESENTATIVE - USIC		COMCAST
IEPA	FRANK COSTANGO	630 396 8224	MARSHA GIERAS
	ADMINISTRATIVE ASSISTANT		680 INDUSTRIAL DRIVE
	860 OAK CREEK DR LOWBARD, IL 60148		ELMHURST, IL 60126
FIBER			METRO FIBERNET, LLC
			OSP ENGINEERING
			FIBERDESIGNENGINEERING@OSERVO.C OM
IEPA			I.E.P.A. - PERMIT SECTION,
			DIVISION OF WATER POLLUTION
			P.O. BOX 19276
			SPRINGFIELD, IL 62794-9276

NO.	DATE	BY	REVISION DESCRIPTION
1	12/17/19	DWS	PLAN REVISIONS & BID ALTERNATE #1 ADDED

ILLINOIS DESIGN FIRM
184.001322
2363 SEQUOIA DRIVE SUITE 101
AURORA, ILLINOIS 60506
PHONE: 630.553.7560
FAX: 630.553.7646

STONEHILL ROAD LIFT STATION DECOMMISSION
CLIENT: VILLAGE OF OSWEGO
OSWEGO, IL

FINAL ENGINEERING - FOR BID
COVER SHEET

BAR IS ONE INCH ON OFFICIAL DRAWINGS
0 1" IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY

DRAWN BY: MPL
APPROVED: DWS
JOB DATE: 05/23/2019
JOB NO: 180055.02

DRAWING
C-01

FINAL - FOR BID

SITE BENCHMARKS:

NOTE:
ALL COORDINATES ARE BASED ON ILLINOIS STATE PLANE COORDINATES - EAST ZONE (NAD83-2011)
ELEVATIONS ARE BASED UPON THE NAVD 88 DATUM.

SOURCE BENCHMARK (#50)
NGS BENCHMARK OSWEGO PUBLIC WORKS/DK6244
TO REACH STATION FROM THE INTERSECTION OF ILLINOIS ROUTE 71 AND PLAINFIELD ROAD, PROCEED SOUTHEAST ON PLAINFIELD ROAD APPROXIMATELY 0.4 MI TO TEMPLETON DRIVE, TURN LEFT ON TEMPLETON DRIVE TO PLANK DRIVE. TURN LEFT ON PLANK DRIVE TO THE INTERSECTION OF THEODORE STREET AND PLANK DRIVE. STATION IS AT THE NORTHWEST CORNER OF THEODORE AND PLANK. STATION IS LOCATED 30.5 FT WEST OF THE CENTERLINE OF PLANK DRIVE, 15.1 FT WEST OF BACK OF CURB, 89.4 FT NORTH OF LIGHT POLE, 122.6 FT NORTHWEST OF BURY BOLT ON FIRE HYDRANT, 57.4 FT NORTHWEST OF CENTER OF WATER VALVE VAULT, AND 220.2 FT SOUTHWEST OF BURY BOLT ON FIRE HYDRANT. NOTE - ACCESS TO DATUM POINT THROUGH 6 INCH LOGO CAP. DATUM POINT IS 0.40 FT BELOW CAP.
ELEV. 657.87 (NAVD 88)

SITE BENCHMARK 1 (#55)
FIRE HYDRANT NORTHEASTERLY TOP FLANGE BOLT ON THE NORTHEASTERLY QUADRANT OF THE INTERSECTION OF WOOLEY ROAD AND STONEHILL ROAD, APPROXIMATELY 11.6 FT EAST OF THE EASTERLY BACK OF CURB OF STONEHILL ROAD, 15.4 FT NORTH OF THE NORTHERLY EDGE OF THE SIDEWALK ALONG THE NORTH SIDE OF WOOLEY ROAD, AND 85.7 FT NORTHWESTERLY OF THE CENTER OF A CURB INLET IN THE NORTHERLY CURB OF WOOLEY ROAD.
ELEV. 663.18 (NAVD 88)

SYMBOL LEGEND		
	EXISTING	PROPOSED
SANITARY MANHOLE	⊙	●
STORM MANHOLE	⊙	⊙
STORM CATCH BASIN/INLET	⊙	⊙
INLET	⊏	⊏
FLARED END SECTION	⊙	⊙
VALVE VAULT	⊙	⊙
WATER SERVICE VALVE	⊙	⊙
FIRE HYDRANT WITH AUXILIARY VALVE	⊙	⊙
LIGHT POLE	⊙	⊙
REGULATORY SIGN	⊙	⊙
UTILITY POLE	⊙	⊙
UTILITY BOX	⊙	⊙
MAILBOX	⊙	⊙
WELL	⊙	⊙
SANITARY SEWER	—	—
STORM SEWER	—	—
CULVERT	—	—
PERFORATED UNDERDRAIN	—	—
WATER MAIN	—	—
WATER MAIN ENCASEMENT	—	—
TRENCH BACKFILL	—	—
SANITARY FORCE MAIN	—	—
ELECTRIC LINE	—	—
OVERHEAD ELECTRIC LINE	—	—
UNDERGROUND ELECTRIC	—	—
TELEPHONE LINE	—	—
GAS LINE	—	—
CABLE TV LINE	—	—
FIBER OPTIC LINE	—	—
TREE LINE	—	—
TREE	—	—
CONTOURS	—	—
SPOT ELEVATION	—	—
FENCE	—	—
DRAINAGE DIRECTION ARROW	—	—
DRAINAGE 10-100 YEAR OVERFLOW DIRECTION ARROW	—	—

STANDARD ABBREVIATIONS	
B-B	- BACK TO BACK OF CURB
B.C.	- BACK OF CURB
B.O.C.	- BACK OF CURB
B.S.L.	- BUILDING SETBACK LINE
P.S.L.	- PARKING SETBACK LINE
C.B.	- STORM CATCH BASIN
C.E.	- COMMONWEALTH EDISON CO.
D.E.	- DRAINAGE EASEMENT
E-E	- EDGE TO EDGE OF PAVEMENT
E.O.P.	- EDGE OF PAVEMENT
E.O.S.	- EDGE OF SHOULDER
E.P.	- EDGE OF PAVEMENT
E.S.	- EDGE OF SHOULDER
F.E.S.	- FLARED END SECTION
I.B.T.	- ILLINOIS BELL TELEPHONE CO.
L.E.	- LANDSCAPE EASEMENT
M.H.	- MANHOLE (TYPE SPECIFIED ON PLANS)
R.C.M.E.	- ROAD CONSTRUCTION & MAINTENANCE EASEMENT
R.O.W.	- RIGHT OF WAY
S.R.L.	- SEPTIC RESTRICTION LINE
T.B.F.	- TRENCH BACKFILL
T.C.	- TOP OF CURB
T.C.E.	- TEMPORARY CONSTRUCTION EASEMENT
T.O.B.	- TOP OF BERM
T.O.C.	- TOP OF CURB
U.E.	- UTILITY EASEMENT
P.S.L.	- PARKING SETBACK LINE
P.U.E.	- PUBLIC UTILITY EASEMENT
P.G.L.	- PROFILE GRADE LINE

SUMMARY OF QUANTITIES - BID ALTERNATE #1

ITEM #	PAY ITEM #	PAY ITEM - BID ALTERNATE #1	UNITS	QUANTITY
1.1	20800150	TRENCH BACKFILL	CU YD	20
1.2	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	204
1.3	25000110	SEEDING, CLASS 1A	ACRE	0.10
1.4	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	9
1.5	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	9
1.6	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	9
1.7	25100115	MULCH, METHOD 2	ACRE	0.10
1.8	28000400	PERIMETER EROSION BARRIER	FOOT	190
1.9	28000500	INLET AND PIPE PROTECTION	EACH	2
1.10	44000100	PAVEMENT REMOVAL	SQ YD	10.0
1.11	44201741	CLASS D PATCHES, TYPE II, 8 INCH	SQ YD	10.0
1.12	67100100	MOBILIZATION	L SUM	1
1.13	X0326713	SANITARY SEWER CONNECTION	EACH	2
1.14	X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	20
1.15	X5632000	ABANDON EXISTING FORCE MAIN, FILL WITH CLSM	FOOT	617
1.16	X6050040	REMOVING MANHOLES, SPECIAL (WET WELL)	EACH	1
1.17	X6050040	REMOVING MANHOLES, SPECIAL (VALVE AND VALVE VAULT)	EACH	1
1.18	Z0057000	SANITARY SEWER 10", PVC, SDR 21 (TRENCHED)	FOOT	20
1.19	Z0057000	SANITARY SEWER 10", PVC, SDR 21 (TRENCHLESS)	FOOT	109

* = SPECIAL PROVISION

SUMMARY OF QUANTITIES - BID ALTERNATE #2

ITEM #	PAY ITEM #	PAY ITEM - BID ALTERNATE #2	UNITS	QUANTITY
2.1	20800150	TRENCH BACKFILL	CU YD	290
2.2	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	204
2.3	25000110	SEEDING, CLASS 1A	ACRE	0.10
2.4	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	9
2.5	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	9
2.6	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	9
2.7	25100115	MULCH, METHOD 2	ACRE	0.10
2.8	28000400	PERIMETER EROSION BARRIER	FOOT	190
2.9	28000500	INLET AND PIPE PROTECTION	EACH	2
2.10	31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	18
2.11	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	18
2.12	42400800	DETECTABLE WARNINGS	SQ FT	10
2.13	44000100	PAVEMENT REMOVAL	SQ YD	90
2.14	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	27
2.15	44000600	SIDEWALK REMOVAL	SQ FT	18
2.16	44201741	CLASS D PATCHES, TYPE II, 8 INCH	SQ YD	90
2.17	60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	27
2.18	67100100	MOBILIZATION	L SUM	1
2.19	X0326713	SANITARY SEWER CONNECTION	EACH	2
2.20	X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	20
2.21	X5632000	ABANDON EXISTING FORCE MAIN, FILL WITH CLSM	FOOT	617
2.22	X6050040	REMOVING MANHOLES, SPECIAL (WET WELL)	EACH	1
2.23	X6050040	REMOVING MANHOLES, SPECIAL (VALVE AND VALVE VAULT)	EACH	1
2.24	Z0057000	SANITARY SEWER 10", PVC, SDR 21 (TRENCHED)	FOOT	129

* = SPECIAL PROVISION

NO.	DATE	BY	REVISION DESCRIPTION
1	12/17/19	DWS	PLAN REVISIONS & BID ALTERNATE #1 ADDED

ILLINOIS DESIGN FIRM
184.001322
2363 SEQUOIA DRIVE SUITE 101
AURORA, ILLINOIS 60506
PHONE: 630.553.7560
FAX: 630.553.7646



STONEHILL ROAD LIFT STATION DECOMMISSION
CLIENT: VILLAGE OF OSWEGO
OSWEGO, IL
FINAL ENGINEERING - FOR BID
LEGENDS, ABBREVIATIONS AND SUMMARY OF QUANTITIES

BAR IS ONE INCH ON OFFICIAL DRAWINGS
0 1"
IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY

DRAWN BY: MPL
APPROVED: DWS
JOB DATE: 05/23/2019
JOB NO: 180055.02

DRAWING
C-02

J:\2018\180055\180055 - Stone Hill Road Lift Station Decommission\CAD\Dwgs\C180055.02-Cover.dwg
Xref: xref-1--d01: xes-Tabulations
12/17/2019 8:44:32 PM

GENERAL NOTES:

1. ALL ITEMS OF THIS PROJECT SHALL BE GOVERNED BY SPECIFICATIONS INCLUDED IN THE DOCUMENTS LISTED BELOW:
 - A. "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" PREPARED BY THE DEPARTMENT OF TRANSPORTATION OF THE STATE OF ILLINOIS AND ADOPTED BY SAID DEPARTMENT (LATEST REVISION).
 - B. "SUPPLEMENTAL SPECIFICATIONS AND RECURRING PROVISIONS" ADOPTED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION (LATEST REVISION DATE).
 - C. "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.
 - D. "STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS" BY ILLINOIS DEPARTMENT OF TRANSPORTATION.
 - E. "DESIGN MANUAL" BY ILLINOIS DEPARTMENT OF TRANSPORTATION.
 - F. "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" (LATEST REVISION)
 - G. "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" BY IEPA, ILLINOIS URBAN MANUAL - A TECHNICAL MANUAL DESIGNED FOR URBAN ECOSYSTEM PROTECTION AND ENHANCEMENT, 2002.
 - H. "TITLE 35" BY ILLINOIS ENVIRONMENTAL PROTECTION AGENCY (IEPA).
 - I. "ILLINOIS URBAN MANUAL" PREPARED BY THE U.S. DEPARTMENT OF AGRICULTURE (LATEST EDITION)
 - J. "FOX METRO WATER RECLAMATION DISTRICT SANITARY SEWER INSTALLATION RULES AND REGULATIONS" (LATEST REVISIONS).
 - K. "VILLAGE OF OSWEGO SUBDIVISION AND DEVELOPMENT CONTROL REGULATIONS" (LATEST REVISIONS).
 - L. "STREAM AND WETLAND PROTECTION ORDINANCE FOR THE VILLAGE OF OSWEGO" (LATEST REVISION).
 - M. "KENDALL COUNTY STORMWATER MANAGEMENT ORDINANCE" (LATEST REVISION).
 - N. LATEST PROJECT MANUAL INCLUDING SPECIAL PROVISIONS FOR "STONEHILL ROAD LIFT STATION DECOMMISSION AND SANITARY SEWER EXTENSION, VILLAGE OF OSWEGO,IL" PREPARED BY HR GREEN, INC.

IN ADDITION THE FOLLOWING SPECIAL PROVISIONS SUPPLEMENT THE SAID SPECIFICATIONS, AND IN CASE OF CONFLICT WITH ANY PART OR PARTS OF SAID SPECIFICATIONS, THESE SPECIAL PROVISIONS ABOVE SHALL TAKE PRECEDENCE AND SHALL GOVERN.

2. SCOPE OF WORK
THE PROPOSED IMPROVEMENT CONSISTS OF SUPPLYING ALL THE NECESSARY LABOR, MATERIAL AND EQUIPMENT TO SATISFACTORILY CONSTRUCT AND INSTALL ALL IMPROVEMENTS ACCORDING TO THE PLANS DESIGNATED "STONEHILL ROAD LIFT STATION DECOMMISSION AND SANITARY SEWER EXTENSION, VILLAGE OF OSWEGO,IL."
3. GENERAL CONTRACTOR SHALL HAVE APPROVAL OF ALL GOVERNING AGENCIES HAVING JURISDICTION OVER THIS SYSTEM PRIOR TO INSTALLATION.
4. ALL EXISTING UTILITIES TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
5. FIELD VERIFY ELEVATIONS AND LOCATIONS OF ALL CONNECTIONS TO EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION.
6. WHERE PUBLIC UTILITY FIXTURES ARE SHOWN AS EXISTING ON THE PLANS OR ENCOUNTERED WITHIN THE CONSTRUCTION AREA, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE OWNERS OF THOSE UTILITIES PRIOR TO THE BEGINNING OF ANY CONSTRUCTION. THE CONTRACTOR SHALL AFFORD ACCESS TO THESE FACILITIES FOR NECESSARY MODIFICATION OF SERVICES. UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS AND THEREFORE, THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS. THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATIONS AND TO AVOID DAMAGE THERETO. NO CLAIMS FOR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR ANY INTERFERENCE OR DELAY CAUSED BY SUCH WORK. THE CONTRACTOR IS REQUIRED TO UTILIZE THE UTILITY CALL J.U.L.I.E. AT 1-800-892-0123 OR 811 AT LEAST 48 HOURS PRIOR TO EXCAVATING ANYWHERE ON THE PROJECT.
7. COMED, AMERITECH, NICOR GAS, AND OTHERS HAVE UNDERGROUND AND/OR OVERHEAD SERVICE FACILITIES IN THE VICINITY OF THE PROPOSED WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING THE UTILITY COMPANIES LOCATE THEIR FACILITIES IN THE FIELD PRIOR TO CONSTRUCTION AND SHALL ALSO BE RESPONSIBLE FOR THE MAINTENANCE AND PRESERVATION OF THESE FACILITIES. THE CONTRACTOR SHALL CALL J.U.L.I.E. AT 1-800-892-0123 OR 811 FOR UTILITY LOCATIONS. WHERE CONFLICT EXISTS BETWEEN UNDERGROUND UTILITIES AND THE PROPOSED UNDERGROUND PIPING REQUIRING A REVISION TO THE PLANS, SUCH CONSTRUCTION SHALL NOT BE UNDERTAKEN UNTIL SUCH CHANGES ARE APPROVED BY THE VILLAGE ENGINEER IN WRITING.
8. CONTRACTOR TO LOCATE ANY ELECTRIC LINES SERVICING STREET LIGHTING OR OTHER IN THE AREA OF CONSTRUCTION PRIOR TO THE INSTALLATION OF THE SANITARY SEWER REPLACEMENT OR ANY SERVICES ASSOCIATED WITH THE CONSTRUCTION OF THE SEWER PROJECT.
9. 1 WEEK PRIOR TO CONSTRUCTION WITHIN VILLAGE ROW OR ANY CONNECTION TO PUBLIC SEWERS, CONTRACTOR SHALL NOTIFY THE APPROPRIATE VILLAGE ENGINEERING DIVISIONS.
10. THE ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING:
 - A. TO VISIT THE CONSTRUCTION SITE IN ORDER TO BETTER CARRY OUT THE DUTIES AND RESPONSIBILITIES ASSIGNED BY THE DEVELOPER AND UNDERTAKEN BY THE ENGINEER.
 - B. THE ENGINEER SHALL NOT, DURING SUCH VISITS OR AS A RESULT OF SUCH OBSERVATIONS OF THE CONTRACTOR'S WORK IN PROGRESS, SUPERVISE, DIRECT, HAVE CONTROL OVER THE CONTRACTOR'S WORK, NOR SHALL THE ENGINEER HAVE THE AUTHORITY OVER THE RESPONSIBILITY FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES OF CONSTRUCTION SELECTED BY THE CONTRACTOR, FOR SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL TO THE WORK OF THE CONTRACTOR, OR FOR ANY FAILURE OF THE CONTRACTOR TO COMPLY WITH LAWS, RULES, REGULATIONS, ORDINANCES, CODES OR ORDERS APPLICABLE TO THE CONTRACTOR FURNISHING AND PERFORMING HIS WORK. ACCORDINGLY, THE ENGINEER CAN NEITHER GUARANTEE THE PERFORMANCE OF THE CONSTRUCTION CONTRACTS BY THE CONTRACTOR NOR ASSUME RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO FURNISH AND PERFORM HIS WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
11. CONSTRUCTION TRAFFIC
 - A. CONSTRUCTION TRAFFIC MAY TRAVEL WITHIN THE VILLAGE RIGHT OF WAY AND THE PROPERTY LINES OF THE PROPOSED SITE.
 - B. STOCKPILES OF ROAD SPOILS AND OTHER FILL MUST BE LOCATED IN AREAS DESIGNATED BY THE PLANS PREPARED BY HR GREEN LABELED "STONEHILL ROAD LIFT STATION DECOMMISSION AND SANITARY SEWER EXTENSION, VILLAGE OF OSWEGO,IL."

12. CONSTRUCTION OF UNDERGROUND UTILITIES
 - A. EXCAVATION. WHERE WORKING CONDITIONS AND RIGHT-OF-WAY PERMIT, PIPE LINE TRENCHES WITH SLOPING SIDES MAY BE USED. THE SLOPES SHALL NOT EXTEND BELOW THE TOP OF THE PIPE, AND TRENCH EXCAVATIONS BELOW THIS POINT SHALL BE MADE WITH VERTICAL SIDES WITH WIDTHS NOT EXCEEDING THOSE SPECIFIED HEREIN FOR THE VARIOUS SIZES OF PIPE. OPEN-CUT TRENCHES SHALL BE SHEETED AND BRACED AS REQUIRED BY THE GOVERNING STATE AND FEDERAL LAWS AND MUNICIPAL ORDINANCES, AND AS MAY BE NECESSARY TO PROTECT LIFE, PROPERTY, OR THE WORK. WHERE FIRM FOUNDATION IS NOT ENCOUNTERED AT THE GRADE ESTABLISHED DUE TO UNSUITABLE SOIL, ALL SUCH UNSUITABLE MATERIAL SHALL BE REMOVED AND REPLACED WITH APPROVED COMPACTED GRANULAR MATERIAL.
 - B. WIDTH OF TRENCH. THE MAXIMUM WIDTH OF TRENCH AT THE TOP OF THE PIPE SHALL BE AS FOLLOWS:

NOMINAL PIPE SIZES (INCHES)	TRENCH WIDTHS(INCHES)
12 OR SMALLER	30
14-18	36
20-24	42
27-30	48
33 AND LARGER	1 1/3 TIMES PIPE O.D.
 - C. SEE TYPICAL TRENCH CROSS SECTION DETAILS ON SHEETS C-08 (SANITARY SEWER), FOR BACKFILLING AND COMPACTION REQUIREMENTS.
 - D. REMOVAL OF WATER. CONTRACTORS SHALL AT ALL TIMES DURING CONSTRUCTION PROVIDE AND MAINTAIN AMPLE MEANS AND DEVICES WITH WHICH TO REMOVE AND PROPERLY DISPOSE OF ALL WATER ENTERING THE EXCAVATIONS.
 - E. BEDDING OF PIPE. ALL PIPE SHALL BE INSTALLED ON A BED OF APPROVED, COMPACTED GRANULAR MATERIAL UNLESS OTHERWISE APPROVED BY THE VILLAGE OF OSWEGO. THE BEDDING MATERIAL SHALL BE OF IDOT'S CA-7 GRADATION AND SHALL BE INSTALLED AS PER TYPICAL TRENCH BACKFILL DETAIL ON PLANS.
 - F. TRENCH BACKFILL. WHENEVER THE EXCAVATION IS IN OR WITHIN 2' OF EXISTING OR PROPOSED STREET, PARKING AREAS, DRIVEWAYS, OR OTHER PAVED AREAS, THE TRENCH SHALL BE BACKFILLED WITH APPROVED SELECTED GRANULAR MATERIAL (CA-6), COMPACTED IN PLACE. TRENCH BACKFILL SHALL BE COMPACTED IN PLACE TO 95% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE AS DETERMINED BY THE STANDARD PROCTOR TEST. THE TOP 12" OF THE BACKFILL SHALL BE FILLED WITH ROAD GRAVEL OR CRUSHED STONE AND MAINTAINED AS A TEMPORARY SURFACE FOR THE NORMAL USE OF THE AREA.
 - G. RESTORATION OF DRAINAGE. AS SOON AS POSSIBLE AFTER BACKFILLING THE TRENCH, ALL DITCHING, GRADING AND SHAPING NECESSARY TO RESTORE THE ORIGINAL DRAINAGE IN THE AREA OF WORK SHALL BE PERFORMED. CULVERTS REMOVED DURING THE COURSE OF WORK SHALL BE REPLACED AS SOON AS PRACTICABLE. TEMPORARY DRAINAGE FACILITIES MEETING THE APPROVAL OF THE ENGINEER SHALL BE PROVIDED DURING CONSTRUCTION.
 - H. UTILITIES. THE CONTRACTOR SHALL NOTIFY ALL UTILITIES PRIOR TO THE INSTALLATION OF ANY PIPE LINES. WHERE CONFLICT EXISTS BETWEEN UNDERGROUND UTILITIES AND THE PROPOSED UNDERGROUND PIPING REQUIRING A REVISION TO THE PLANS, SUCH CONSTRUCTION SHALL NOT BE UNDERTAKEN UNTIL SUCH CHANGES ARE APPROVED IN WRITING BY THE VILLAGE OF OSWEGO.
 - I. UTILITIES IN EMBANKMENT SECTION: ALL EMBANKMENT MATERIAL WHICH IS TO BE PLACED WITHIN THE AREA OF INFLUENCE OF PROPOSED UNDERGROUND UTILITIES, AS SHOWN ON THE PLANS, INCLUDING STORM SEWER, WATER MAIN, AND SANITARY SEWER, SHALL BE COMPACTED TO 95% OF STANDARD PROCTOR. THE AREA OF INFLUENCE SHALL BE DETERMINED AS FOLLOWS:
 - a. HORIZONTAL ALIGNMENT: THE HORIZONTAL AREA OF INFLUENCE SHALL BE THAT AREA 5 FOOT FROM BOTH SIDES OF THE PROPOSED TRENCH ALIGNMENT.
 - b. VERTICAL: THE VERTICAL AREA OF INFLUENCE SHALL BE DETERMINED AS THAT AREA LOCATED DIRECTLY UNDER THE HORIZONTAL ALIGNMENT AS DEFINED IN (1) FROM THE BOTTOM OF THE PROPOSED SUBGRADE TO THE TOP OF THE REMAINING ON-SITE MATERIAL AFTER TOPSOIL STRIPPING AND UNDERCUTTING AS DIRECTED BY THE ENGINEER OR AS SHOWN ON THE PLANS.
 - c. TRENCH: ALL UTILITIES SHALL BE CONSTRUCTED IN A TRENCH UPON COMPLETION OF MASS GRADING.
 - d. UTILITY LOCATION: NO UTILITY STRUCTURE WILL BE PERMITTED IN PAVED AREAS INCLUDING ROADWAY, CURB AND GUTTER, SIDEWALKS, BIKEPATHS, AND DRIVEWAYS (EXCEPT CURB INLETS AND CATCH BASINS THAT ARE DESIGNED TO BE INSTALLED ALONG THE CURB AND GUTTER LINE.
 - J. ALL FILL, COMPACTION, AND BACKFILL MATERIALS REQUIRED FOR UTILITY INSTALLATION SHALL BE PER THE APPLICABLE UTILITY COMPANY SPECIFICATIONS.
 - J. PROVIDE UNDERDRAINS FROM SEEPS OR SPRINGS ENCOUNTERED. EXTEND TO STORM SEWER SYSTEM OR DAYLIGHT AT THE BOTTOM OF THE FILL SLOPE
13. COORDINATION AND RESPONSIBILITIES
 - A. THE QUANTITIES GIVEN IN THE ENGINEER'S BID PROPOSAL ARE INTENDED AS A GUIDE FOR THE CONTRACTOR IN DETERMINING THE SCOPE OF THE COMPLETED PROJECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALL MATERIAL QUANTITIES AND APPRAISE HIMSELF OF ALL SITE CONDITIONS. NO CLAIMS FOR EXTRA WORK WILL BE RECOGNIZED UNLESS ORDERED IN WRITING BY THE ENGINEER.
 - B. A PRECONSTRUCTION CONFERENCE FOR REPRESENTATIVES OF THE OWNER, ENGINEER, VILLAGE ENGINEER, KENDALL COUNTY AND CONTRACTOR WILL BE HELD BEFORE THE CONTRACTOR PROCEEDS WITH CONSTRUCTION, AT A TIME AND PLACE CONVENIENT FOR ALL PARTIES, FOR REVIEW OF THE CONTRACTOR'S CONSTRUCTION SCHEDULES, TO ESTABLISH PROCEDURES FOR HANDLING SHOP DRAWINGS AND OTHER SUBMITTALS AND TO ESTABLISH A WORKING UNDERSTANDING AMONG THE PARTIES AS TO THE CONTRACT WORK.
 - C. NO CONSTRUCTION PLANS SHALL BE USED FOR CONSTRUCTION UNLESS SPECIFICALLY MARKED "FOR CONSTRUCTION." PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AFFECTING THEIR WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONSTRUCTION PLANS, HE MUST IMMEDIATELY REPORT SAME TO THE ENGINEER BEFORE DOING ANY WORK. OTHERWISE, THE CONTRACTOR ASSUMES FULL RESPONSIBILITY. IN THE EVENT OF A DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, STANDARD SPECIFICATIONS AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTIONS FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSIONS OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTION, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS OWN RISK AND EXPENSE. IN THE EVENT OF ANY DOUBT OR QUESTION ARISING WITH RESPECT TO THE TRUE MEANING OF THE CONSTRUCTION PLANS OR SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE.

14. EXCAVATION SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED.
15. GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING UNSUITABLE SOILS WITH SUITABLE MATERIALS AS SPECIFIED. ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL BE SUBMITTED IN COMPACTION REPORT PREPARED BY A QUALIFIED GEOTECHNICAL ENGINEER, REGISTERED WITH THE STATE WHERE THE WORK IS PERFORMED, VERIFYING THAT ALL FILLED AREAS AND SUBGRADE AREAS WITHIN THE AREAS TO BE PAVED HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS.
16. THE CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST OSHA STANDARDS AND REGULATIONS, OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE "MEANS AND METHODS" REQUIRED TO MEET THE INTENT AND PERFORMANCE CRITERIA OF OSHA, AS WELL AS ANY OTHER ENTITY THAT HAS JURISDICTION FOR EXCAVATION AND/OR TRENCHING PROCEDURES.
17. THE TOPS OF EXISTING MANHOLES, INLET STRUCTURES, AND SANITARY CLEANOUT TOPS SHALL BE ADJUSTED, IF REQUIRED, TO MATCH PROPOSED GRADES IN ACCORDANCE WITH ALL APPLICABLE STANDARDS.

18. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF EXISTING TOPOGRAPHIC INFORMATION AND UTILITY INVERT ELEVATIONS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. CONTRACTOR TO ENSURE 0.50% MINIMUM SLOPE ALONG ALL ISLANDS, GUTTERS, AND CURBS; 1.0% ON ALL CONCRETE SURFACES; AND 1.5% MINIMUM ON ASPHALT, TO PREVENT PONDING. ANY DISCREPANCIES THAT MAY AFFECT THE PUBLIC SAFETY OR PROJECT COST MUST BE IDENTIFIED TO THE ENGINEER IN WRITING IMMEDIATELY. PROCEEDING WITH CONSTRUCTION WITHOUT NOTIFICATION IS DONE SO AT THE CONTRACTOR'S OWN RISK.
19. IN CASE OF DISCREPANCIES BETWEEN PLANS OR RELATIVE TO OTHER PLANS, THIS SITE PLAN WILL TAKE PRECEDENCE. IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY CONFLICTS.
20. ALL EXISTING STRUCTURES, UNLESS OTHERWISE NOTED TO REMAIN, FENCING, TREES, & ETC., WITHIN CONSTRUCTION AREA SHALL BE REMOVED & DISPOSED OF OFF SITE. NO ON SITE BURNING WILL BE ALLOWED
21. GENERAL CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES HAVING UNDERGROUND UTILITIES ON SITE OR IN RIGHT-OF-WAY PRIOR TO EXCAVATION. CONTRACTOR SHALL CONTACT UTILITY LOCATING COMPANY AND LOCATE ALL UTILITIES PRIOR TO GRADING START.
22. NO PART OF THE PROPOSED PROJECT IS LOCATED WITHIN A FLOOD HAZARD AREA
23. THE CONTRACTOR SHALL CONFINE THEIR GRADING OPERATIONS TO WITHIN CONSTRUCTION LIMITS AND EASEMENTS SHOWN ON THE PLANS. ANY DAMAGE TO PROPERTIES OUTSIDE THE SITE BOUNDARY SHALL BE AT THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
24. THE CONTRACTOR SHALL APPLY NECESSARY MOISTURE CONTROL TO THE CONSTRUCTION AREA AND HAUL ROADS TO PREVENT THE SPREAD OF DUST.
25. ALL FIELD TILES ENCOUNTERED SHALL BE REPLACED AND/OR CONNECTED TO THE STORM SEWER SYSTEM AND LOCATED AND IDENTIFIED ON THE RECORD PLANS BY THE CONTRACTOR.
26. ELEVATIONS AND CONTOURS ARE TO STATE PLANE COORDINATES PER NAVD DATUM.
27. THE CONTRACTOR SHALL NOT DISTURB DESIRABLE GRASS AREAS AND DESIRABLE TREES OUTSIDE THE CONSTRUCTION UNITS. THE CONTRACTOR SHALL NOT BE PERMITTED TO PARK OR SERVICE VEHICLES AND EQUIPMENT OR USE THESE AREAS FOR STORAGE OF MATERIALS. STORAGE, PARKING AND SERVICE AREAS WILL BE SUBJECT TO THE APPROVAL OF THE VILLAGE.
28. THE CONTRACTOR MAY BE REQUIRED TO PLACE TEMPORARY WARNING DEVICES AND SAFETY FENCE AT CERTAIN LOCATIONS WHERE REPLACEMENT FEATURES ARE NOT INSTALLED THE SAME DAY, AS DIRECTED BY THE ENGINEER OR THE VILLAGE.
29. ALL CONSTRUCTION WITHIN PUBLIC ROW/EASEMENTS AND/OR ANY CONNECTION TO PUBLIC SEWERS AND STREETS, SHALL COMPLY WITH THE VILLAGE CONSTRUCTION SPECIFICATIONS FOR SUBDIVISIONS AND LATEST EDITION OF I.D.O.T. DESIGN STANDARDS

21. THE CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY AREAS OF PAVEMENT, CURB AND GUTTER OR SIDEWALK NOT TO BE REMOVED THAT ARE DAMAGED DUE TO OPERATING EQUIPMENT ON THE PAVEMENT OR SIDEWALK.
 - A. SIDEWALKS. UNLESS OTHERWISE SHOWN ON THE PLANS, THE PROPOSED SIDEWALKS ALONG THE PUBLIC ROADWAYS SHALL BE CONSTRUCTED WHEN THE ROADWAY IS SUBSTANTIALLY COMPLETE.
 - B. DETECTABLE WARNINGS. THIS WORK SHALL CONSIST OF THE INSTALLATION OF PRE-FABRICATED REPLACEABLE PANEL OF TRUNCATED DOMES TWENTY-FOUR INCHES (24") WIDE AND FORTY-EIGHT INCHES (48") IN LENGTH ON CONCRETE SIDEWALK ACCESSIBILITY RAMPS AT LOCATIONS AS DIRECTED BY THE ENGINEER. ADD THE FOLLOWING TO ARTICLE 424.09:
"THE DOMES SHALL PARALLEL THE PAVEMENT CROSSWALK IN ACCORDANCE WITH THE LATEST HIGHWAY STANDARD. THE PANEL SHALL BE RED. THE PANEL SHALL MEET THE REQUIREMENTS OF ASTM C1028 - SLIP RESISTANCE AND ASTM G155 - ACCELERATED WEATHERING.
 - C. CURB & GUTTER. COMBINATION CONCRETE CURB AND GUTTER WILL BE REQUIRED ON ALL ROADWAYS. ALL CURB AND GUTTER SHALL BE PLACED ON AN AGGREGATE BASE WITH A MINIMUM THICKNESS OF FOUR INCHES, BUT IN NO CASE SHALL THE CURB AND GUTTER SUBGRADE BE HIGHER THAN ONE INCH BELOW THE ADJACENT ROADWAY SUBGRADE. THE HEIGHT OF THE GUTTER FLAG SHALL BE TEN (10") INCHES, UNLESS DIRECTED OTHERWISE BY THE VILLAGE ENGINEER. AS NOTED PREVIOUSLY, THE ROADWAY SUBGRADE FABRIC WILL EXTEND OVER THE CURB AND GUTTER SUBGRADE, AND BEYOND BY A MINIMUM OF TWELVE (12") INCHES. THE CONCRETE CURB AND GUTTER SHALL BE REINFORCED WITH TWO #4 DEFORMED BARS, PLACED THREE (3") INCHES FROM THE BOTTOM, SPACED TWELVE (12") INCHES APART, CENTERED ON THE TOTAL WIDTH OF THE CURB AND GUTTER. MACHINE-PLACED CONCRETE CURB AND GUTTER IS TO BE UTILIZED WHEREVER PRACTICAL. UTILIZING A MINIMUM CLASS SI CONCRETE, AND A FIVE (5%) PERCENT MINIMUM AIR-ENTRAINMENT. PLASTIZERS WILL BE ALLOWED, BUT CHLORIDES WILL NOT. AN APPROVED SPRAY-ON CURING COMPOUND WITH RED FUGITIVE COLORING SHALL BE APPLIED IMMEDIATELY AFTER FINISHING, AND A SEALER, WR MEADOWS TIAC, OR APPROVED EQUAL, SHALL BE APPLIED AFTER SEVEN DAYS. THE RESIDENT ENGINEER SHALL BE NOTIFIED OF THESE APPLICATIONS, AND PROOF OF PURCHASE, WITH MATERIAL SPECIFICATIONS, WILL BE REQUIRED. THE CONCRETE CURB AND GUTTER SHALL HAVE THE REQUIRED SLIP BAR EXPANSION JOINTS, AND 3" INCH DEEP SAWED CONTRACTION JOINTS WILL BE REQUIRED EVERY 15-20 FEET, WITHIN 24 HOURS AFTER EACH POUR. MINOR HONEYCOMBING ON THE TWO OUTER, VERTICAL SURFACES WILL BE ALLOWED, BUT THEY MUST BE PATCHED IN AN APPROVED MANNER, AND WITNESSED BY THE VILLAGE ENGINEER, PRIOR TO BACKFILLING. THE CLAY BACKFILL BEHIND THE CURB SHALL BE PLACED AND COMPACTED PRIOR TO PLACING AGGREGATE BASE COURSE.
 - D. CURB RAMPS: ALL SIDEWALKS SHALL BE INSTALLED TO ACCOMMODATE THE HANDICAPPED. RAMPS SHALL BE INSTALLED IN ACCORDANCE WITH I.D.O.T. STANDARD DETAIL 424001-07, OR THE DETAIL SHOWN ON THE PLANS.
 - E. PAVEMENT SHALL BE SAW CUT IN STRAIGHT LINES TO THE FULL DEPTH OF THE EXISTING PAVEMENT. ALL DEBRIS FROM REMOVAL OPERATIONS SHALL BE REMOVED FROM THE SITE AT THE TIME OF EXCAVATION. STOCKPILING OF DEBRIS WILL NOT BE PERMITTED.

NO.	DATE	BY	REVISION DESCRIPTION
1	12/17/19	DWS	PLAN REVISIONS & BID ALTERNATE #1 ADDED

ILLINOIS DESIGN FIRM
184.001322
2353 SEQUOIA DRIVE SUITE 101
AURORA, ILLINOIS 60506
PHONE: 630.553.7560
FAX: 630.553.7646



STONEHILL ROAD LIFT STATION DECOMMISSION
CLIENT: VILLAGE OF OSWEGO
OSWEGO, IL
FINAL ENGINEERING - FOR BID
SPECIFICATIONS AND NOTES (1)

BAR IS ONE INCH ON OFFICIAL DRAWINGS
0"  1"
IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY

DRAWN BY: **MPL**
APPROVED: **DWS**
JOB DATE: **05/23/2019**
JOB NO: **180055.02**

DRAWING
C-03

FINAL - FOR BID

**FOX METRO WATER RECLAMATION DISTRICT
MANHOLE / SEWER PIPE MATERIALS AND INSTALLATION SPECIFICATIONS MATERIALS**

1. PIPE & FITTINGS

Pipe and fittings used in sanitary sewer construction shall be polyvinyl chloride (PVC) pipe. PVC pipe and fittings dated over one-year-old shall not be permitted for use. **No solvent-welded joints shall be allowed outside of the foundation wall of any building.**

The types of PVC pipe and fittings that shall be used in the District include:

- Poly Vinyl Chloride (PVC) Sewer Pipe and Fittings (ASTM – SDR series), conforming to ASTM Numbers D-1784 (cell classification), D-3034, D-3212 (joint spec), and F-477 (gaskets).
- Poly Vinyl Chloride (PVC) Pressure Rated Pipe and Fittings (ASTM - SDR series), conforming to ASTM Numbers D-1784 (cell classification), D-2241, D-3139 (joint spec), and F-477 (gaskets).
- Poly Vinyl Chloride (PVC) Pressure Rated Pipe and Fittings (AWWA DR-series) conforming to AWWA C-900, AWWA C-905, and ASTM Numbers D-1784 (cell classification), D-3139 (joint spec), F-477 & F-913 (gaskets).

All PVC plastic pipe and fittings shall have a cell classification of 12454 as defined in ASTM D-1784 and shall have minimum pipe stiffness as shown below in Table 1. The required Standard Dimension Ratio (SDR) or Dimension Ratio (DR) for PVC pipe and fittings shall be selected based upon the depth of cover, as also shown in the table below:

Depth of Cover	Pipe Diameter	Minimum Thickness	National Standard	Minimum Pipe Stiffness
3.5' - <15'	6" - 12"	SDR 26	ASTM D-3034	115
3.5' - <20'	6" - 12"	SDR 21	ASTM D-2241	224
3.5' - <30'	6" - 12"	DR-18	AWWA C-900	364
3.5' - <30'	14"	DR-18	AWWA C-905	364

1

Fittings in sizes through twelve (12) inches shall have elastomeric joints and minimum socket depths as specified in each respective section. Fittings above twelve (12) inches shall be molded or fabricated with elastomeric joints in accordance with ASTM standards D-1784 and D-3139 incorporating the manufacturer's standard pipe bells and gaskets. Gaskets shall conform to ASTM F-477 and ASTM F-913.

The District reserves the right to approve/reject all pipe and fittings on a case-by-case basis.

2. BEDDING, HAUNCHING, AND INITIAL BACKFILL

Bedding material shall be CA-7 Class 1A, as outlined in ASTM D-2321 and shall be certified by the manufacturer and approved by the District prior to installation, to have the following characteristics:

- Description: Shall be crushed stone or crushed gravel, as produced from crushing by mechanical means.
- Gradation: Shall meet the IDOT gradation of CA-7, Class 1A.
- Plasticity Index: Shall meet a plasticity index of 0 to 4 percent as determined by the method given in AASHTO T 90.
- Specific Gravity: Shall have a specific gravity (dry) of greater than 2.45.

LABORATORY TEST

The District reserves the right to require a contractor to submit certified copies of all reports of tests conducted by an independent laboratory before installation of PVC plastic pipe. Tests shall be conducted in accordance with Standard Method of Test for "External Loading Properties of Plastic Pipe by Parallel-Plate Loading" per ASTM D2412.

PIPE INSTALLATION AND FIELD TESTING

1. INSTALLATION

If the invert of any overhead sewer exceeds two (2) feet above the footing, plate compaction of the CA-7 Class 1A aggregate shall be required in twelve (12) inch lifts.

Trench widths should be stable or supported, provide a width sufficient, but no greater than necessary to ensure working room to properly and safely place haunching and other embedment materials. The minimum trench width shall be 32" plus the outside diameter of the pipe and the maximum trench width shall be 48" plus the outside diameter of the pipe.

Pipe size shall be a minimum of eight (8) inches for public sewers and six (6) inches for building sewers.

2

Pipes shall be laid in a manner which provides uniform support over the entire length. No blocking of any kind shall be used to adjust the pipe to grade except when embedment concrete is used. Bedding shall be a minimum of six (6) inches in depth. The bedding material shall be placed and worked in around pipe by hand to provide uniform support, then around and over the crown of the pipe by a minimum of twelve (12) inches. The granular embedment material shall be placed and consolidated along the full width of the trench. The contractor shall be required to install the pipe in such a manner that the diametric deflection of the pipe shall not exceed five (5) percent.

PVC transition fittings shall be used in all new construction when joining PVC pipes of different outside dimensions.

Service connections to new mains shall be with a tee/wye fitting with a six (6) inch branch and shall connect to the main at a (max.) forty-five (45) degree angle. Where no tee/wye exists, an Inserta Tee brand fitting shall be required.

Cast iron clean out covers conforming to ASTM A-48 Class 30 or equivalent shall be required for all sanitary sewer services located in any paved surface. Locations of said covers shall be limited to a spacing of no greater than one hundred (100) feet or that constructed per the approved engineering plan.

The use of ductile iron & cast iron pipe is not allowed for the use of gravity sewers in the District.

Either 4" X 6" rubber or non-shear couplings shall be used to connect the building drain to the building sewer. If using a rubber fitting, the four-inch pipe shall be inserted six to twelve inches inside of the six inch building sewer.

Whether any grease removal system (GRS) is newly constructed or retrofitted to an existing building, all District guidelines pertaining to minimum slope and cover depth for sanitary construction shall be strictly adhered to.

All building drains/sewers shall be overhead or "hung" through the wall of any basement.

Full-sized cleanouts shall be installed five (5) feet from the foundation wall.

2. TESTING

Before final acceptance, all public sewers shall be tested in accordance with Section 31-1.12 of the "Standard Specifications for Water and Sewer Main Construction in Illinois" (*see item #2 under "Manhole Installation and Field Testing" below for vacuum testing).

All pipelines constructed of polyvinyl chloride (PVC) shall be subject to air exfiltration, deflection, vacuum and televising tests.

The deflection test shall be performed no sooner than thirty (30) days of the backfilling operation and shall consist of measuring the pipe for vertical ring deflection. Maximum ring deflection of the pipeline under load shall be limited to five (5) percent of the internal pipe diameter. All pipes

3

exceeding this deflection shall be considered to have reached the limit of its serviceability and shall be re-laid or replaced by the contractor at their sole expense.

The cost of all deflection testing shall be borne by the contractor and shall be accomplished by pulling a mandrel, sphere, or pin-type "go / no go" device, with a diameter equal to ninety-five (95) percent of the un-deflected inside diameter of the flexible pipe through the pipeline. Pipe shall be constructed so that the internal diameter does not decrease by more than five (5) percent.

All sanitary sewer (public or private) having a diameter of eight (8) inches or greater shall be televised by the District. Said televising work is scheduled once all sanitary testing (air & vacuum) has been received by the District. Any defects in said sewer shall be required to be excavated and repaired at the contractor's or developer's sole expense. Caution should be taken before constructing roads, curbs, sidewalks or any other infrastructure, whether it is above or below the ground surface. It is the responsibility of the utility contractor and the developer to contact the District prior to installing any of these utilities or infrastructure. Repairs to defective sanitary sewers shall be performed regardless of the status of other construction or extraneous expenses.

MANHOLE INSTALLATION AND FIELD TESTING

1. INSTALLATION

All manhole castings, adjusting rings and manhole sections shall be set in butyl rope or approved equal. The inside joints of manhole sections, adjusting rings, and frame shall not be mortared. However, the area between the pipe and flow channel shall be filled with cement mortar to provide a flush smooth surface.

Each manhole cone and barrel section joint shall also be externally sealed with a *6" or **9" wide (min.) sealing band of rubber and mastic (see "REPAIRS" below). The band shall have an outer layer of rubber or polyethylene with an under layer of rubberized mastic (with a protective film), meeting the requirements of ASTM C-877, **type II or *type III.

Pipe connections to all manholes through openings (cast or core-drilled) shall be provided with a flexible rubber watertight connector conforming to ASTM C-923, "Standard Specifications for Resilient Connectors between Reinforced Concrete Manhole Structures and Pipes".

A maximum of eight (8) inches of adjusting rings (2 total rings) is allowed. The frame, chimney, and top "lip" of the cone section shall be required to be sealed with a chimney seal.

Only "Adaptor-Seal", "Infi-Shield", Canusa (Wrapid Seal), or an approved equal will be allowed. Do not use unapproved seals.

When a new manhole is approved to be constructed on an existing public sewer, only Cascade brand (CR style), or approved equal, stainless steel repair clamps shall be installed. Only repair clamps conforming to ANSI/NSF-61 shall be allowed. This work shall be inspected by the District.

4

2. TESTING

Each new manhole shall be vacuum tested after manhole is at finished grade. All lift holes shall be plugged with a non-shrinking grout. The manhole frame, adjusting rings and chimney seals shall be in place when testing. No grout shall be placed in the horizontal joints before, after or during testing in order to achieve a passing test result. All pipes entering the manhole shall be plugged, taking care to securely brace the plugs from being drawn into the manhole. A vacuum of ten (10) inches of mercury shall be drawn and the vacuum pump shut off. With the valves closed, the time shall be measured for the vacuum to drop to nine (9) inches of mercury (Hg) for the following time periods for each size manhole:

*Forty-eight (48) inches Diameter – sixty (60) seconds

*Sixty (60) inches Diameter – seventy-five (75) seconds

*Seventy-two (72) inches Diameter – ninety (90) seconds

*Manhole testing will be in accordance with ASTM-1244-93 or in accordance with District requirements. In case of conflict, the more stringent requirement will apply (e.g. where deeper manholes are constructed).

The contractor shall provide all material and equipment necessary for testing. Should the manhole fail the vacuum test, the structure shall be disassembled to a point that said leak can be repaired with butyl rope. After the repair is complete, the manhole shall be re-tested until a satisfactory result is obtained.

REPAIRS & REHABILITATION OF EXISTING PIPES AND MANHOLES

1. PIPES

Pipe connections of dissimilar materials where no hub exists shall be made with a non-shear connector.

Where a new home is constructed on any lot where the sanitary service is made of rigid materials such as vitrified clay, cast iron, or ductile iron, said service will be required to be removed or lined to the public main. Any existing sanitary sewer main or service, which is required to be lined, shall be repaired with a cured-in-place pipe (CIPP) meeting the requirements of ASTM F1216, D5813, D790 and D2990. Said CIPP shall be installed using the inversion method only. Hot water or steam shall be used to cure all liners.

Building sewers shall be permanently abandoned using one of following two methods.

- 1.) Removed to within one (1) foot of the public sewer and plugged using a mechanical plug and mortar. This is the required method. If this is not feasible, see item two below.

5

- 2.) The incoming building sewer shall be sealed within the public sewer with a four (4) foot minimum length cured in place pipe (C.I.P.P.) liner with hydrophilic gaskets.

Where a newly constructed public sewer needs to be repaired due to damage having occurred during construction, Cascade brand (CR style), or approved equal, stainless steel repair clamps shall be required. Only repair clamps conforming to ANSI/NSF-61 shall be allowed. When the damage occurs within thirty (30) feet of a manhole, the contractor shall remove and replace the damaged main from the nearest joint to the manhole.

2. MANHOLES

Each manhole, which has been disturbed in any way, including being raised or lowered, should be cleaned and dried before re-sealing. Each cone and barrel section joint shall require a double-layer of butyl rope and also be externally sealed with a *6" or **9" wide (min.) sealing band of rubber and mastic. The band shall have an outer layer of rubber or polyethylene with an under layer of rubberized mastic (with a protective film), meeting the requirements of ASTM C-877, **type II or *type III.

A maximum of eight (8) inches of adjusting rings (2 total rings) is allowed in any repair. The frame and chimney of the cone section shall be required to be sealed with a chimney seal. Only "Adaptor-Seal", "Infi-Shield", Canusa (Wrapid Seal), or approved equal will be allowed.

6

NO.	DATE	BY	REVISION DESCRIPTION
1	12/17/19	DWS	PLAN REVISIONS & BID ALTERNATE #1 ADDED

ILLINOIS DESIGN FIRM
184,001322
2363 SEQUOIA DRIVE SUITE 101
AURORA, ILLINOIS 60506
PHONE: 630.553.7560
FAX: 630.553.7646



STONEHILL ROAD LIFT STATION DECOMMISSION
CLIENT: VILLAGE OF OSWEGO
OSWEGO, IL
FINAL ENGINEERING – FOR BID
SPECIFICATIONS AND NOTES (2)

BAR IS ONE INCH ON OFFICIAL DRAWINGS
0 1"
IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY

DRAWN BY: MPL
APPROVED: DWS
JOB DATE: 05/23/2019
JOB NO: 180055.02

DRAWING
C-04

GENERAL NOTES
FOR SANITARY SEWER CONSTRUCTION IN THE FOX METRO WATER RECLAMATION DISTRICT

- All sanitary sewer construction shall be performed in accordance with the "Fox Metro Water Reclamation District Sewer Use Ordinance No. 859", the "Standard Specifications for Water and Sewer Main Construction in Illinois", and "77 Illinois Administrative Code, part 890, Illinois Plumbing Code", latest edition.
- Final approved set of plans and specifications must be kept on the job site. Failure to do this may result in a fine and/or be considered cause to stop the job.
- Contractors for all sanitary sewer main extension projects shall notify the District's Engineering Department twenty-four (24) hours prior to the start of work. Notification shall be done via telephone at (630) 301-6882, fax at (630) 897-6094 or email (smedrano@foxmetro.org or mfrankino@foxmetro.org).
- For service connection inspections, call twenty-four (24) hours in advance to schedule an inspection at (630) 301-6811.
- To prevent any possible infiltration, inflow or debris from entering the downstream sanitary system, a factory-made plug shall be placed in the manhole by the contractor, as indicated on the final approved plans. The placement of the plug(s) shall not interrupt the service of any user. This plug is to be removed only upon approval by the District or the city/village and only after any construction drainage and/or debris has been properly removed. Under no circumstances is overland surface drainage allowed to drain into the sanitary system.
- All sanitary sewers shall be tested in accordance with Section 31-1.12 of the "Standard Specifications for Water and Sewer Main Construction in Illinois". In addition, all manholes shall be vacuum tested (manhole testing will be in accordance with ASTM-1244-93 or in accordance with District requirements). In case of testing specification conflict, where deeper manholes are constructed, the more stringent requirement will apply.
- When connecting to an existing sanitary main when a tee or wye is not provided, an "Inserta Tee" fitting must be installed. The minimum distance between fittings is four (4) feet center to center. Installation of a wye/tee on an existing main is prohibited. The angle of any new connection shall not exceed 1/1 or 45 degrees.
- Only "Infi-Shield", "Adaptor-Seal", and "Wrapid Seal" or approved equal chimney seals shall be installed on all manholes and grease removal systems.
- Only PVC transition fittings shall be used in all new construction when joining PVC pipes which are damaged, disturbed during construction or have different outside diameters. Refer to Fox Metro "Manhole/Sewer Pipe Specifications" for information relating to repairs of mains damaged during construction.
- All existing sanitary interceptor (mains 15" in diameter or greater) manhole frames located within any proposed development will be required to be adjusted to grade. Under no circumstances may the vertical height of the adjusting rings (two total) rings exceed eight (8) inches. Extreme care should be taken when working near all sanitary manholes.
- Cast iron cleanout covers are required in areas receiving traffic loads.
- Ductile iron and cast iron pipe is not allowed for the use of gravity sewers in the District.
- Landscaping within any District easement is prohibited without review and subsequent plan approval. The easement shall be graded so that the ground surface does not exceed a six (6) percent gradient in all directions.
- All building drains/sewers shall be overhead or "hung" through the basement wall of any new building. All sanitary risers shall be required to be constructed to a depth of no greater than six (6) to seven (7) feet at the right of way. If a conflict arises between a sanitary sewer and a water line, IEPA water & sewer separation requirements take precedent.
- Whether any grease removal system is newly constructed or "retrofitted" to an existing building, a minimum each of 1% slope and 3.5' of cover for pipes are required.
- Minimum design slopes shall be 1.00% for six (6) inch building sewers, .40% for eight (8) inch sewers, and .28% for ten (10) inch sewers with all other design slopes conforming to the requirements of the "Standard Specifications for Water and Sewer Main Construction in Illinois".
- All manhole barrel sections (including those sections of existing manholes which have been exposed during construction) shall be required to be externally sealed with a "6" or "6**" wide (min.) sealing band of rubber and mastic. The band shall have an outer layer of rubber or polyethylene with an under layer of rubberized mastic (with a protective film), meeting the requirements of ASTM C-877, **type II or *type III.
- All sags, leaks, pipe defects, or other related issues with any newly televised sewer shall be repaired by the contractor at the discretion of the District. For approval of repairs, these areas will need to be confirmed in writing as completed by the appropriate municipality

or re-televised by the District. At the District's discretion, connection permits may be withheld if confirmation of completed repairs cannot be obtained.

- Any contractor, who consistently fails to perform in accordance with the District's standards and specifications as provided on the plans, may be prohibited from performing work in the District. The District reserves the right to revoke or disallow any contractor's bond.
- The District shall televise all sewers eight (8) inches in diameter or greater. In order to access each manhole, the developer is responsible for providing a smooth, level area of sufficient width along the sanitary sewer system. If the sewers are found not to be clean during televising, the developer may incur additional charges if proper access to all manholes is not provided and/or for "heavy cleaning" of sewers by the District's contractor.
- Full-sized cleanouts are required on all building sewers and shall be installed at a minimum depth of four (4) feet rim to invert.

CONTRACTOR NOTICE
Fox Metro Water Reclamation District
IMPORTANT – PLEASE READ!!

The following list represents costly problems or violations that commonly occur during or after construction. Our goal is to make everyone aware of these problems and hopefully reduce unnecessary delays, expenses, and fines.

In order to perform new construction or repair work on any private sanitary or water service, the following must be completed before work may commence:

- A \$25,000 license & permit bond made out to "Fox Metro Water Reclamation District" must be received and approved for new construction or repair work.
 - A District permit for new construction or a repair permit is required.
 - An inspection is required by the District. To save a \$50 same day inspection fee, please provide twenty-four (24) hour notice.
- All public sanitary sewer construction must have an IEPA permit and plan approval letter on file at the District prior to commencing. Please provide our office with 48-hour notification to verify this before starting construction. If construction does not commence within two (2) days of the initial notice, start notification must be resubmitted.
 - To prevent unnecessary flow or discharge into the existing sanitary system, all new sanitary construction must be securely plugged and maintained by the contractor. The plug(s) may only be removed after permission has been obtained from the municipality or the District's engineering department. All construction drainage must be properly removed from the new sanitary sewer system.
 - All private building sewer connections must have a connection permit from the District. In addition, this work shall be inspected by the District. Please call (630) 301-6811 to schedule inspections twenty-four (24) hours from starting construction. No building sewers shall be installed until all proposed public sewers have been tested and approved by the District and a final recorded subdivision plat is submitted.

- All domestic water service installations (except for the Village of Oswego and the United City of Yorkville) are to be inspected by the District. Any/all final connections to any building, made by any plumber or excavator, shall also be inspected by the District. Do not backfill this connection before this inspection is completed.
- All sanitary manholes are to be sealed (exterior of chimney & barrels) and vacuum tested. Any disruption of these manholes will break the seal(s), requiring a costly resealing and retesting process. Please stay clear of all manholes.
- Ductile iron & cast iron pipe is not allowed for the use of gravity sewers in the District.

For questions regarding permitting and construction, call the District's engineering department at (630) 301-6882. For questions regarding inspections or to report violations, open manholes, or other issues please call (630) 301-6811.

NO.	DATE	BY	REVISION DESCRIPTION	
			PLAN REVISIONS & BID ALTERNATE #1	ADDED
1	12/17/19	DWS		

ILLINOIS DESIGN FIRM
184,001322
2363 SEQUOIA DRIVE SUITE 101
AURORA, ILLINOIS 60506
PHONE: 630.553.7560
FAX: 630.553.7646



STONEHILL ROAD LIFT STATION DECOMMISSION
CLIENT: VILLAGE OF OSWEGO
OSWEGO, IL
FINAL ENGINEERING – FOR BID
SPECIFICATIONS AND NOTES (4)

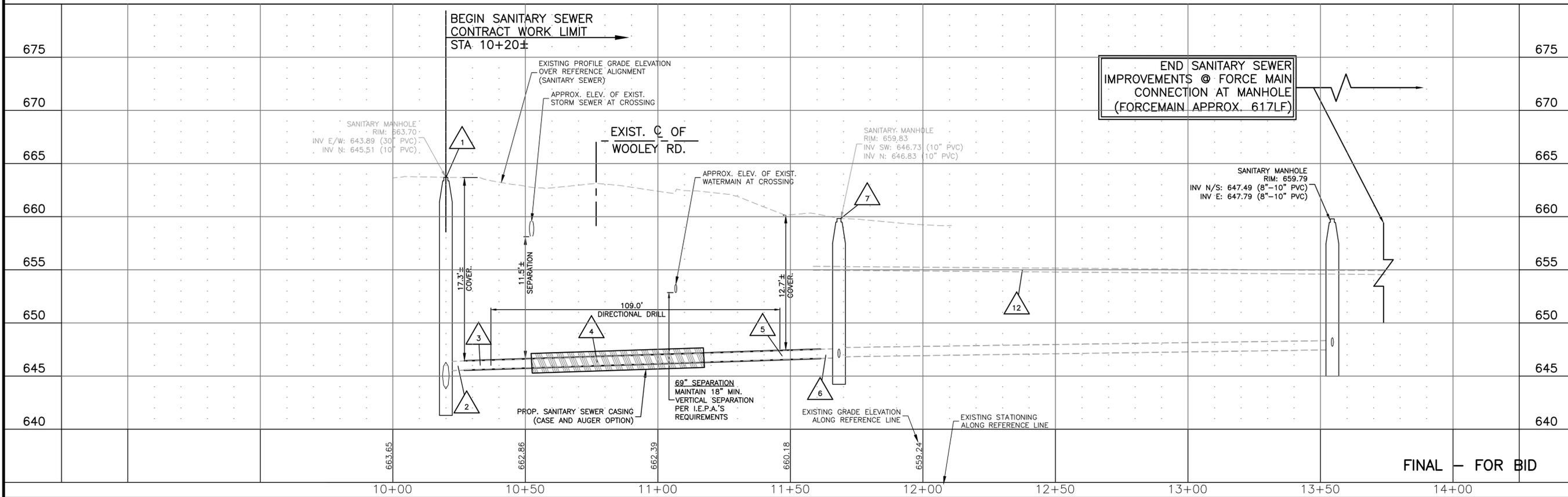
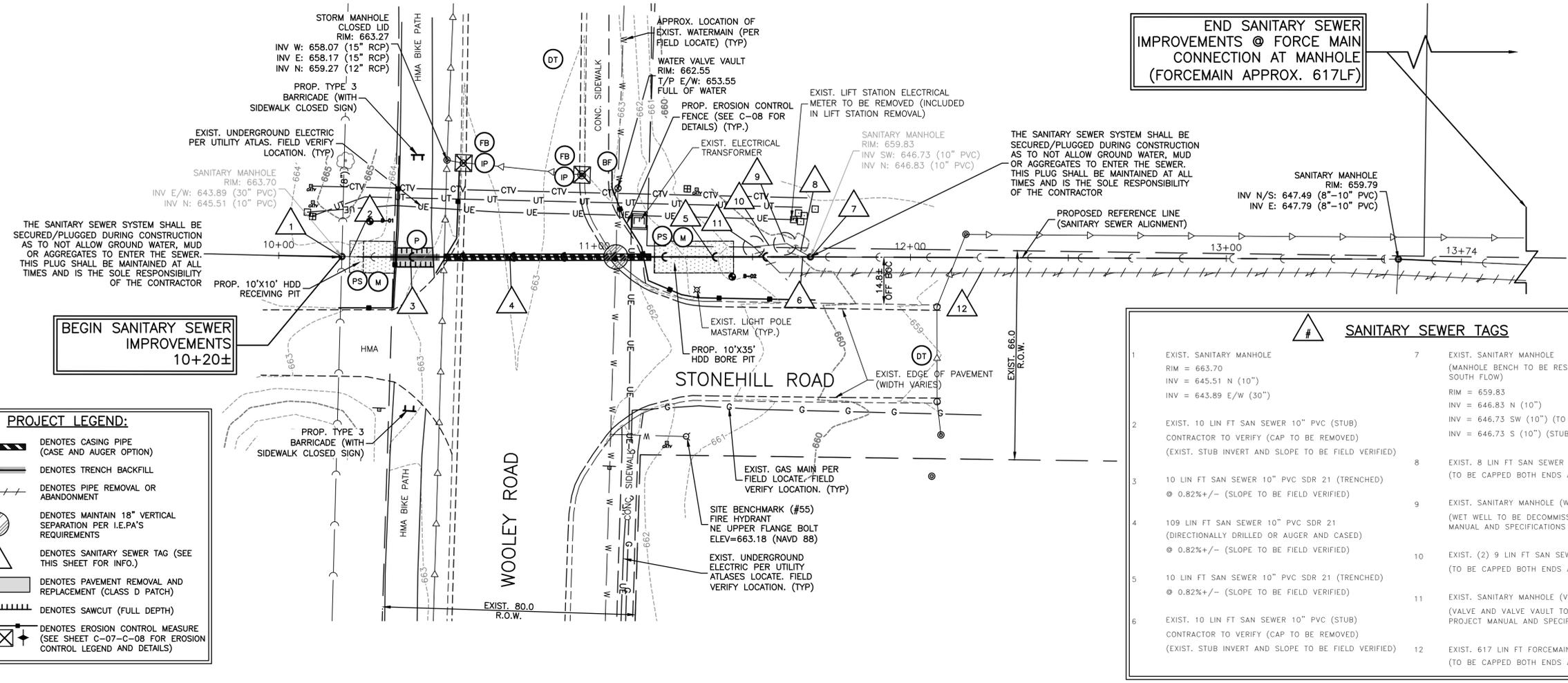
BAR IS ONE INCH ON OFFICIAL DRAWINGS
0 1"
IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY

DRAWN BY: MPL
APPROVED: DWS
JOB DATE: 05/23/2019
JOB NO: 180055.02

DRAWING
C-05

Xref: xgf-1--001: xes-Teleditions 12/17/2019 8:44:52 PM J:\2018\180055\180055.02 - Stone Hill Road Lift Station Decommission\CAD\Dwg\C\180055.02-Cover.dwg

Xref: 180055.02-c-dgn; 180055.02-xv-survey; xg1-1-wd01; xg1-1-wd20-500ft; 180055.02-c-profile; 180055.02-c-tabulations
 12/17/2019 7:46:25 PM J:\2018\180055\180055.02 - Stone Hill Road Lift Station Decommission\CAD\Drawings\180055.02-PnP-San_Sewer.dwg



FINAL - FOR BID

NO.	DATE	BY	REVISION DESCRIPTION
1	12/17/19	DWS	PLAN REVISIONS & BID ALTERNATE #1 ADDED

ILLINOIS DESIGN FIRM
 # 184.001322
 2363 SEQUOIA DRIVE SUITE 101
 AURORA, ILLINOIS 60506
 PHONE: 630.553.7560
 FAX: 630.553.7646

STONEHILL ROAD LIFT STATION DECOMMISSION
CLIENT: VILLAGE OF OSWEGO
 OSWEGO, IL

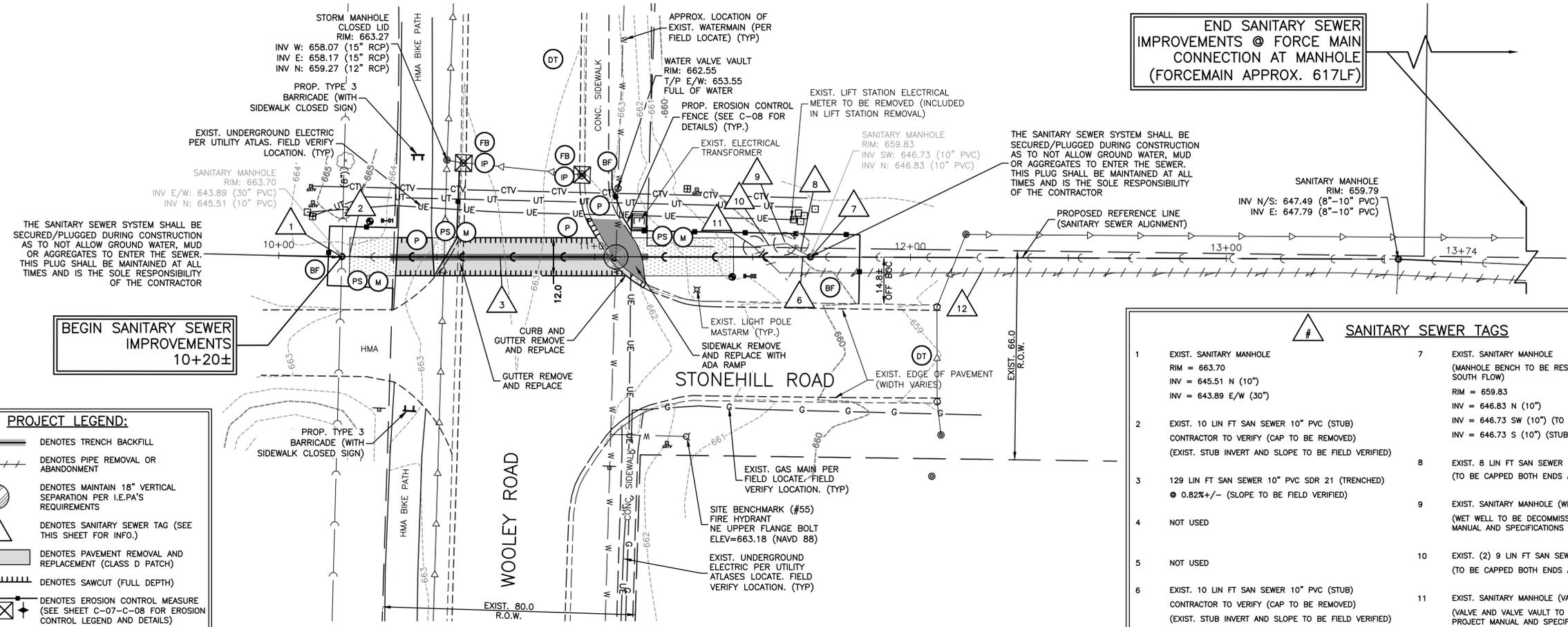
FINAL ENGINEERING - FOR BID
SANITARY SEWER PLAN AND PROFILE-BID ALTERNATE #1

BAR IS ONE INCH ON OFFICIAL DRAWINGS
 0" = 1"
 IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY

DRAWN BY: MPL
 APPROVED: DWS
 JOB DATE: 05/23/2019
 JOB NO: 180055.02

DRAWING
C-06

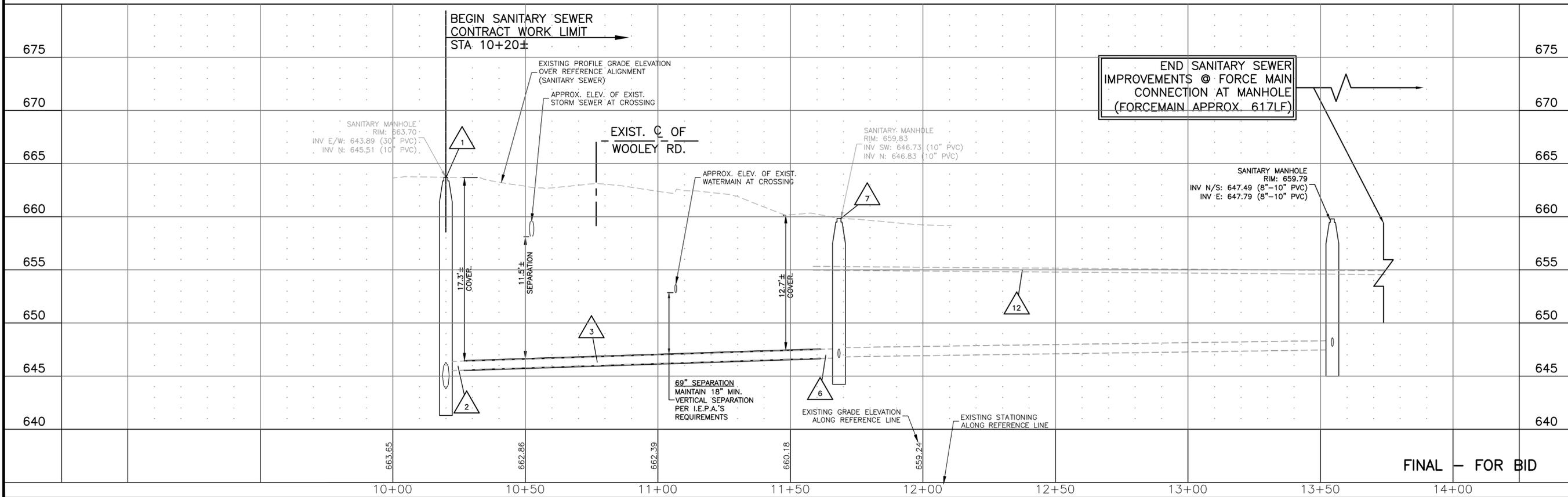
Xref: 180055.02-c-dwg; 180055.02-c-v-survey; xjt-1-wd01; xjt-1-wd20-500ft; 180055.02-c-profile; 180055.02-c-tabulations
 12/17/2019 7:45:29 PM J:\2018\180055\180055.02 - Stone Hill Road Lift Station Decommission\CAD\DWG\180055.02-PnP-San_Sewer_ALTI.dwg



PROJECT LEGEND:

- DENOTES TRENCH BACKFILL
- DENOTES PIPE REMOVAL OR ABANDONMENT
- DENOTES MAINTAIN 18" VERTICAL SEPARATION PER I.E.P.A.'S REQUIREMENTS
- DENOTES SANITARY SEWER TAG (SEE THIS SHEET FOR INFO.)
- DENOTES PAVEMENT REMOVAL AND REPLACEMENT (CLASS D PATCH)
- DENOTES SAWCUT (FULL DEPTH)
- DENOTES EROSION CONTROL MEASURE (SEE SHEET C-07-C-08 FOR EROSION CONTROL LEGEND AND DETAILS)

#	SANITARY SEWER TAGS
1	EXIST. SANITARY MANHOLE RIM = 663.70 INV = 645.51 N (10") INV = 643.89 E/W (30")
2	EXIST. 10 LIN FT SAN SEWER 10" PVC (STUB) CONTRACTOR TO VERIFY (CAP TO BE REMOVED) (EXIST. STUB INVERT AND SLOPE TO BE FIELD VERIFIED)
3	129 LIN FT SAN SEWER 10" PVC SDR 21 (TRENCHED) ● 0.82%+/- (SLOPE TO BE FIELD VERIFIED)
4	NOT USED
5	NOT USED
6	EXIST. 10 LIN FT SAN SEWER 10" PVC (STUB) CONTRACTOR TO VERIFY (CAP TO BE REMOVED) (EXIST. STUB INVERT AND SLOPE TO BE FIELD VERIFIED)
7	EXIST. SANITARY MANHOLE (MANHOLE BENCH TO BE RESHAPED AS NECESSARY TO SOUTH FLOW) RIM = 659.83 INV = 646.83 N (10") INV = 646.73 SW (10") (TO BE PLUGGED) INV = 646.73 S (10") (STUB)
8	EXIST. 8 LIN FT SAN SEWER 10" PVC (TO BE CAPPED BOTH ENDS AND CLSM FILLED)
9	EXIST. SANITARY MANHOLE (WET WELL) (WET WELL TO BE DECOMMISSIONED, SEE PROJECT MANUAL AND SPECIFICATIONS FOR DETAILS)
10	EXIST. (2) 9 LIN FT SAN SEWER 4" DIP (TO BE CAPPED BOTH ENDS AND CLSM FILLED)
11	EXIST. SANITARY MANHOLE (VALVE VAULT) (VALVE AND VALVE VAULT TO BE DECOMMISSIONED, SEE PROJECT MANUAL AND SPECIFICATIONS FOR DETAILS)
12	EXIST. 617 LIN FT FORCEMAIN 4" HDPE PIPE (TO BE CAPPED BOTH ENDS AND CLSM FILLED)



NO.	DATE	BY	REVISION DESCRIPTION
1	12/17/19	DWS	PLAN REVISIONS & BID ALTERNATE #1 ADDED

ILLINOIS DESIGN FIRM
184.001322
2363 SEQUOIA DRIVE SUITE 101
AURORA, ILLINOIS 60506
PHONE: 630.553.7560
FAX: 630.553.7646

STONEHILL ROAD LIFT STATION DECOMMISSION
 CLIENT: VILLAGE OF OSWEGO
 OSWEGO, IL
 FINAL ENGINEERING - FOR BID
 SANITARY SEWER PLAN AND PROFILE-BID ALTERNATE #2

BAR IS ONE INCH ON OFFICIAL DRAWINGS
0" = 1"
IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY

DRAWN BY: ELC
APPROVED: DWS
JOB DATE: 05/23/2019
JOB NO: 180055.02

DRAWING
C-06.01

FINAL - FOR BID

CONTROL MEASURE GROUP	CONTROL MEASURE	APPL.	KEY	CONTROL MEASURE CHARACTERISTICS	TEMP.	PERMIT
VEGETATIVE SOIL COVER	TEMPORARY SEEDING	X	TS	PROVIDES QUICK TEMPORARY COVER TO CONTROL EROSION WHEN PERMANENT SEEDING IS NOT DESIRED OR TIME OF YEAR IS INAPPROPRIATE.	X	
	PERMANENT SEEDING	X	PS	PROVIDES PERMANENT VEGETATIVE COVER TO CONTROL EROSION, FILTERS SEDIMENT FROM WATER. MAY BE PART OF FINAL LANDSCAPE PLAN.		X
	DORMANT SEEDING		DS	SAME AS PERMANENT SEEDING EXCEPT IS DONE DURING DORMANT SEASON. HIGHER RATES OF SEED APPLICATION ARE REQUIRED.		
	SODDING		SO	QUICK PERMANENT COVER TO CONTROL EROSION. QUICK WAY TO ESTABLISH VEGETATION FILTER STRIP. CAN BE USED ON STEEP SLOPES OR IN DRAINAGEWAYS WHERE SEEDING MAY BE DIFFICULT.		
	GROUND COVER		GC	PROVIDES GROUND COVER, SHRUBS AND TREES IN ADDITION TO PERMANENT VEGETATION. MAY BE USED AS PART OF A FINAL LANDSCAPE PLAN ALONG WITH SHRUBS AND TREES.		
	RAIN GARDEN		RG	PROVIDES A TYPE OF FUNCTIONAL LANDSCAPING FEATURE DESIGNED TO CONTROL STORMWATER RUNOFF. SEE LANDSCAPING PLANS FOR DETAILS.		
NON VEGETATIVE SOIL COVER	MULCHING	X	M	ADDED INSURANCE OF A SUCCESSFUL TEMPORARY OR PERMANENT SEEDING. CONTROLS UNWANTED VEGETATION AND PRESERVES MOISTURE. PROVIDES COVER WHERE VEGETATION CANNOT BE ESTABLISHED.	X	
	AGGREGATE COVER		AG	PROVIDES SOIL COVER ON ROADS AND PARKING LOTS AND AREAS WHERE VEGETATION CANNOT BE ESTABLISHED. PREVENTS MUD FROM BEING PICKED UP AND TRANSPORTED OFF-SITE.		
	PAVING	X	P	PROVIDES PERMANENT COVER ON PARKING LOTS AND ROADS OR OTHER AREAS WHERE VEGETATION CANNOT BE ESTABLISHED.		X
DIVERSIONS	EROSION BLANKET		EB	PROVIDES QUICK TEMPORARY COVER TO CONTROL EROSION WHEN PERMANENT SEEDING TIME OF YEAR IS INAPPROPRIATE AND IN EXPOSED AREAS.		
	RIDGE DIVERSION		RD	TYPICALLY USED ABOVE SLOPES. USED WHERE AN EXCESS OF SOIL IS AVAILABLE.		
	CHANNEL DIVERSION		CD	TYPICALLY USED AT TOP OR BASE OF SLOPES. USED WHEN EXCESS SOIL IS NOT AVAILABLE.		
	COMBINATION DIVERSION		DC	TYPICALLY USED ANYWHERE ON A SLOPE. SOIL TAKEN OUT OF CHANNEL IS USED TO BUILD THE RIDGE.		
	CURB AND GUTTER		CG	SPECIAL CASE OF DIVERSION USED IN CONJUNCTION WITH A STREET TO DIVERT WATER FROM AN AREA NEEDING PROTECTION.		
	BENCHES		B	SPECIAL CASE OF DIVERSION CONSTRUCTED WHEN WORKING ON CUT SLOPES TO SHORTEN LENGTH OF SLOPE AND ADD SLOPE STABILITY.		
WATERWAYS	BARE CHANNEL		BC	PROVIDES MEANS OF CONVEYING RUNOFF TO DESIRED LOCATION. MAY BE USED TO DRAIN DEPRESSIONAL AREAS. ONLY APPLICABLE WHEN VELOCITY OF FLOW IS VERY LOW.		
	VEGETATIVE CHANNEL		VC	PROVIDED ADDED STABILITY TO CHANNEL. USED WHEN VELOCITY OF FLOW IS NOT EXTREMELY FAST.		
	LINED CHANNEL		LC	USED WHEN VEGETATION WILL NOT PROTECT THE CHANNEL AGAINST HIGH VELOCITIES OF FLOW OR WHERE VEGETATION CANNOT BE ESTABLISHED.		
ENCLOSED DRAINAGE	DITCH CHECKS		RC	PROVIDES AN ENERGY DISSIPATOR ALONG A LENGTHY CHANNEL TO REDUCE VELOCITY OF STORMWATER.		
	STORM SEWER		ST	CAN BE USED TO CONVEY SEDIMENT LADEN WATER TO SEDIMENT BASIN OR IN CONJUNCTION WITH A WATERWAY.		
SPILLWAYS	UNDERDRAIN		UD	USED TO LOWER WATER TABLE AND INTERCEPT GROUNDWATER FOR BETTER VEGETATION GROWTH AND SLOPE STABILITY. USED TO CARRY BASE FLOW IN WATERWAYS AND TO DEWATER SEDIMENT BASINS.		
	STRAIGHT PIPE SPILLWAY		SS	USED FOR RELATIVELY SMALL VERTICAL DROPS AND SMALL FLOWS OF WATER.		
	DROP INLET PIPE SPILLWAY		DIS	SAME AS PIPE SPILLWAY EXCEPT LARGER FLOWS AND LARGE VERTICAL DROPS CAN BE ACCOMMODATED.		
OUTLETS	WEIR SPILLWAY		W	USED FOR RELATIVELY SMALL VERTICAL DROPS AND FLOWS MUCH GREATER THAN PIPE STRUCTURES.		
	BOX INLET WEIR SPILLWAY		BS	SAME AS WEIR SPILLWAY EXCEPT LARGER FLOWS CAN BE ACCOMMODATED BECAUSE OF LOWER WEIR LENGTH.		
	LINED APRON		LA	PROTECTS DOWNSTREAM CHANNEL FROM HIGH VELOCITY OF FLOW DISCHARGING FROM STRUCTURES.		
SEDIMENT BASINS	STONE RIP RAP		RR	USED AS AN ENERGY DISSIPATOR AT OUTLET STRUCTURES TO REDUCE VELOCITIES.		
	EMBANKMENT SEDIMENT BASIN		ES	USED WHERE TOPOGRAPHY LENDS ITSELF TO CONSTRUCTING A DAM AND EARTH FILL IS AVAILABLE.		
	EXCAVATED SEDIMENT BASIN		XS	USED WHERE EMBANKMENT COULD CAUSE A HAZARD DOWNSTREAM IN CASE OF FAILURE AND WHEN EXCESS EARTH FILL IS NOT AVAILABLE.		
SEDIMENT FILTERS	COMBINATION SEDIMENT BASIN		CS	USED WHEN TOPOGRAPHY IS SUITABLE BUT ADDITIONAL CAPACITY IS NEEDED.		
	BARRIER FILTER	X	BF	USED FOR SINGLE LOTS OR DRAINAGE AREAS LESS THAN 1/2 ACRE TO FILTER SEDIMENT FROM RUNOFF.	X	
	VEGETATIVE FILTER		VF	USED ALONG DRAINAGE WAYS OR PROPERTY LINES TO FILTER SEDIMENT FROM RUNOFF. SIZE MUST BE INCREASED IN PROPORTION TO DRAINAGE AREA.		
	FILTER BASKET	X	FB	USED FOR FILTERING SEDIMENT WITHIN THE ROADWAY BEFORE ENTERING THE STORM SEWER.		X
	FILTER FABRIC		FF	USED FOR FILTERING SEDIMENT WITHIN THE ROADWAY BEFORE ENTERING THE STORM SEWER.		
MUD AND DUST CONTROL	INLET PROTECTION	X	IP	USED FOR FILTERING SEDIMENT WITHIN GRASS AREAS BEFORE WATER ENTERS THE STORM SEWER.		X
	STABILIZED CONST. ENTRANCE		SE	PREVENT MUD FROM BEING PICKED UP AND CARRIED OFF-SITE.		
	DUST AND TRAFFIC CONTROL	X	DT	PREVENTS DUST FROM LEAVING CONSTRUCTION SITE.		X

EROSION CONTROL NOTES:

- No land disturbing activities shall not commence until approval to do so has been received by governing authorities, in addition to, no land clearing or grading shall begin until all perimeter erosion and sediment control measures have been installed. (Including storm water pollution prevention plan per the development criteria.)
- The general contractor shall strictly adhere to the storm water pollution prevention plan (SWPPP) during construction operations. (NO SWPPP IS REQUIRED FOR THIS PROJECT, HOWEVER THE CONTRACTOR SHALL FOLLOW STORM WATER PROTECTION BEST PRACTICES)
- All topsoil shall be stripped prior to filling
- All exposed areas shall be seeded as specified within 14 days of final grading.
- Should construction stop for longer than 14 days, the site shall be seeded as specified.
- Sediment and erosion control measures shall be inspected at least once every seven (7) days and within 24 hours of a rainfall exceeding 0.5 inches during a 24-hour period or more frequently if required by governing NPDES general permit. All maintenance required by inspection shall commence within 24 hours and be completed within 48 hours of report.
- This plan shall not be considered all inclusive as the general contractor shall take all necessary precautions to prevent soil sediment from leaving the site.
- General contractor shall comply with all state and local ordinances that apply.
- Additional erosion and sediment control measures will be installed if deemed necessary by an site inspection.
- General contractor shall be responsible to take whatever means necessary to establish permanent soil stabilization.
- All sedimentation and erosion control regulations shall be adhered to per Village of Oswego's requirements
- All erosion and sediment control practices shall be maintained and repaired as needed to ensure effective performance of the required erosion control measures.
- All erosion and sediment control work shall conform to the I.D.O.T. Manual for Road and Bridge Construction and the Illinois Urban Manual, standards and procedures for erosion control.
- All construction will adhere to the requirements set forth in the IEPA's new construction site activities national pollutant discharge elimination system (NPDES) storm water permit.
- All roadways shall be cleaned at the end of each construction day.
- All disturbed areas shall be stabilized within 7 days of active disturbance.
- All erosion control measures shall be disposed of within 30 days of final stabilization of the site.
- Ground cover for 5:1 slopes or greater shall be established as soon as possible.
- All disturbed areas to be restored w/ 6" topsoil respread & seeding/sodding unless otherwise noted on plans
- Inlet protection such as Silt filter fabric or filter baskets shall be placed between frame and grate until vegetation is established. (see detail)
- Utilize excelsior blanket on all slopes of 5:1 or greater.
 - *Seeding per I.D.O.T. Manual, section 251, standard specifications for road and bridge construction, (latest edition)
 - *Class 3 type - slope mixture
 - *Mulch/hydroseeded per I.D.O.T. Manual, section 251, standard specifications for road and bridge construction, (latest edition)
 - *Mulch/hydroseeded method 2, procedure 3
- No dimensions shall be assumed by scaling.
- No known drain tiles are present on the proposed development, if tiles are encountered during construction please notify the engineer immediately.
- No part of the proposed project is located within a flood hazard 10-100yr area a flood hazard area
- Excess material shall be placed at specified location unless otherwise specified by owner and approved by engineer for use of lot grading. Stockpiles shall be surrounded with filter fence and shall be seeded per I.D.O.T. Manual (latest addition) (temporary) if left more than 14 working days.
- General contractor shall notify all utility companies having underground utilities on site or in right-of-way prior to excavation. Contractor shall contact utility locating company and locate all utilities prior to grading start.

PHASING NOTES:

- SEQUENCE OF MAJOR ACTIVITIES
- The Contractor will be responsible for implementing the following erosion control and storm water management control measures. The Contractor may designate these tasks to certain subcontractors as he sees fit, but the ultimate responsibility for implementing these controls and ensuring their proper functioning remains with the Contractor. The order of activities will be as follows (refer to the Erosion and Sediment Control Plan Sheet contained in this SWPPP for details and refer to the Suggested Phasing Plan in the design drawings for construction sequencing):
- Secure storm water NPDES permit with the IEPA at least 30 days prior to beginning work. (NOT REQUIRED FOR THIS PROJECT)
 - A pre-construction meeting shall be held by the Site Project Manager and the Operator's Engineer prior to land disturbing activities.
 - Install perimeter silt fences and inlet protection in the locations shown on the Erosion Control plan sheets.
 - Implement erosion control measures around the existing storm sewer to prevent sedimentation from infiltrating into the storm sewer system as shown on the Erosion Control plan sheets.
 - Begin clearing and grubbing operations if applicable. Clearing and grubbing shall be done only in areas where earthwork will be performed and only in areas where building is planned to commence within 7 days after clearing and grubbing.
 - Disturbed areas of the site where Construction Activity has ceased for more than 7 days shall be temporarily seeded and watered.
 - Install inlet / outlet protection around the constructed storm sewer to prevent sedimentation from infiltrating into the storm sewer system as shown on the Plan and Profile plan sheet.
 - Construct proposed sanitary sewer.
 - Finalize pavement preparation.
 - Remove inlet protection around inlets and manholes.
 - Carry out final grading and seeding, sodding and planting, including rolled erosion control products where shown on the Plan and Profile plan sheets.
 - Remove silt fencing only after all work is complete and exposed surfaces are stabilized.

A schedule for implementation for the activities identified above is included as Form C-3 of the SWPPP.

SEEDING / SODDING CHART

STABILIZATION TYPE	CONTRACTOR RESPONSIBILITY			PER I.D.O.T. SPECIFICATIONS APR. 1 - JUNE 15			CONTRACTOR RESPONSIBILITY			PER I.D.O.T. SPECIFICATIONS AUG. 1 - NOV. 1			CONTRACTOR RESPONSIBILITY		
	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.			
TEMPORARY SEEDING	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
PERMANENT SEEDING	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
SODDING	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

- SEE I.D.O.T. SPECIFICATIONS FOR INSTALLATION AND APPLICATION REQUIREMENTS
- SUPPLEMENTAL WATERING MAYBE REQUIRED. (SEE I.D.O.T. SPECIFICATIONS FOR REQUIREMENTS)

NOTES

- This plan has been prepared to comply with the provisions of the NPDES Permit Number issued by the Illinois Environmental Protection Agency for Stormwater Discharges from Construction Site Activities.
- The total area of the site that is estimated to be disturbed by excavation, grading, or other activities, is less than 1.0± acres.
- Site Description.
 - The stormwater area is tributary to Village storm sewer.
 - The following is a description of the construction activity which is the subject of this plan: The proposed improvements consists of construction of stormwater sewer extension, decommission/abandonment of existing lift station wet well and valve vault, abandonment of existing sanitary sewer force main, pavement patching, and restoration back to existing conditions. The construction activities for site improvements will include: site clearing, grubbing, grading, pavement construction, installation of utilities including Sanitary Sewer, soil erosion and sedimentation control measures, as a minimum.
 - The following is a description of the construction activity which is the subject of this plan: The sequence of the construction activities may be as follows: See Sequence of major activities on this sheet.
 - Controls.

This plan addresses the various controls that will be implemented for each of the major construction activities described in 1.b above. For each measure discussed, the contractor will be responsible for its implementation as indicated. Each such contractor has signed the required certification on forms which are attached to, and are a part of, this plan.

 - Erosion and Sediment Controls.
 - STABILIZATION PRACTICES. Provided below is a description of interim and permanent stabilization practices, including site-specific scheduling of the implementation of the practices. Site plans will ensure that existing vegetation is preserved where attainable and disturbed portions of the site will be stabilized. Except as provided in 2.a. (i) (A) and 2.b. stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 10 days after the construction activity in that portions of the site where construction activity will not occur for a period of 21 or more calendar days.
 - Where the initiation of stabilization measures by the 14th day after construction activity temporarily or permanently ceases is precluded by snow cover, stabilization measures will be initiated as soon as practicable thereafter.
 - The following interim and permanent stabilization practices, as a minimum, will be implemented to stabilize the disturbed area of the site.

1. Temporary Seeding	5. Stone Riprap	8. Paving
2. Permanent Seeding	6. Filter fabric	9. Dust & Traffic Control
3. Erosion Blanket	7. Inlet Protection	10. Barrier Fence
4. Stabilized Construction Entrance		
 - STRUCTURAL PRACTICES. Provided below is a description of structural practices that will be implemented, to the degree attainable, to divert flows from exposed soils, store flows or otherwise limit runoff and the discharge of pollutants from the site where construction activities have temporarily or permanently ceased, but in no case more than 10 days after the construction activity in that portions of the site where construction activity will not occur for a period of 21 or more calendar days.
 - Detention basins
 - Storm sewer system
 - Vegetated drainage swales
 - Permanent seeding
 - Stone Riprap
 - Filter fabric
 - Inlet and Outlet Protection
 - Curb & gutter
 - Erosion Control. It shall be the Contractor's responsibility to provide adequate erosion control on the job site. The following erosion control sequence shall be adhered to: See Sequence of major activities on this sheet.

Any siltation of structures or ditches shall be cleaned and maintained by the Contactor, on a weekly basis, until the seeding has taken hold. All washouts, gullies, etc. will be regraded and reseeded by the Contactor, at the Contractor's expense.
- The Contractor's responsibility for erosion control shall extend throughout the construction process. The Contractor shall be responsible for cleanup of paved surfaces within and adjacent to the project.
- All erosion control practices shall be in compliance with the latest revision of the Illinois Urban Manual by the Natural Resources Conservation Service and with "Standards and Specifications for Soil Erosion and Sedimentation Control" as published by the Illinois Environmental Protection Agency.
- If a topsoil stockpile location is provided and approved by the Owner, Contractor shall establish erosion control measures for the stockpile if it is to remain in place for more than three days. In addition, barrier filter fence shall enclose topsoil stockpile location with exception of truck access during construction hours.
- Stormwater Management
 - Provided below is a description of measures that will be installed during the construction process to control pollutants in stormwater discharges that will occur after construction operations have been completed. The installation of these devices may be subject to Section 404 of the Clean Water Act.

The practices selected for implementation were determined on the basis of the technical guidance contained in IEPA's Standard Specifications for Soil Erosion and Sedimentation Control, and other ordinances listed in the Specifications.

The stormwater pollutant control measures include:

 - Silt Filter fence
 - Drainage Swales
 - Storm Sewers
 - Stone Riprap
 - Filter fabric
 - Detention Ponds
- Velocity dissipation devices will be placed at discharge locations and along the length of any outfall channel as necessary to provide a non-erosive velocity flow from the structure to a water course so that the natural physical and biological characteristics and functions are maintained and protected (e.g., maintenance of hydrologic conditions, such as the hydroperiod and hydrodynamics present prior to the initiation of construction activities).
- Approved State and Local Plans.

The management practices, controls and other provisions contained in this plan are at least as protective as the requirements contained in the Illinois Environmental Protection Agency's Standards and Specifications for Soil Erosion and Sedimentation Control dated October 1987, Illinois Procedures and Standards for Urban Soil Erosion and Sedimentation Plan, and the Municipal Subdivision Ordinance. Requirements specified in sediment and erosion control site plans or site permits or stormwater management or site plans or site permits approved by local officials that are applicable to protecting surface water resources are, upon submittal of an NOI to be authorized to discharge under this permit, incorporated by reference and are enforceable under this permit even if they are not specifically included in the plan.
- Maintenance.

The following is a description of procedures that will be used to maintain, in good and effective operating conditions, vegetation, erosion and sediment control measures and other protective measures identified in this plan and Standard Specifications.

Stabilized construction entrance: The entrance shall be maintained to prevent tracking of sediment onto public streets. This will be done by top dressing with additional stones, remove and replace top layer of stones or washing the entrance. The sediment washed on the public right-of-way will be removed immediately.

Vegetative erosion control measures: The vegetative growth of temporary and permanent seeding shall be maintained periodically and supply adequate watering. The vegetative cover shall be reseeded as necessary.

Silt filter fence: The damaged silt filter fence shall be restored to meet the standards or removed and replaced as needed.

Riprap outlet protection: It shall be inspected after high flows for any scour beneath the riprap or for stones that have been dislodged. It shall be repaired immediately.

Disturbed areas shall be stabilized with temporary or permanent measures within 7 calendar days following the end of active disturbance, or redistribution, consistent with the following criteria:

 - Appropriate temporary or permanent stabilization measures shall include seeding, mulching, sodding, and/or non-vegetative measures.
 - Areas having slopes greater than 12 percent shall be stabilized with sod, mat, or blanket in combination with seeding or equivalent.

Soil storage piles containing more than 10 cu. yds. of material shall not be located with a downslope drainage length less than 25 feet to a roadway or drainage channel. Filter barriers, including straw bales, filter fence, or equivalent, shall be installed immediately on the down slope of the piles.

- Other Controls.
 - Waste Disposal. The solid waste materials including trash, construction debris, excess construction materials, machinery, tools and other items will be collected and disposed off-site by the contractor. The contractor is responsible to acquire any permit required for such disposal. Burning on the site will not be permitted. No solid materials, including building materials, shall be discharged into Water of the State, except as authorized by a Section 404 permit.
 - The provisions of this plan shall ensure and demonstrate compliance with applicable State and/or local waste disposal, sanitary sewer or septic system regulations.
 - The sanitary sewage will be discharged to the proposed sanitary sewer constructed per IEPA and local standards.
- Inspections.

The Owner, or Owner's representative shall provide qualified personnel to inspect disturbed areas of the construction site which have not been finally stabilized, structural control measures and location where vehicles enter or exit the site. Such inspections shall be conducted at least once every seven (7) calendar days and within 24 hours of the end of a storm that is 0.5 inches or greater or equivalent snowfall.

 - Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the drainage system. Erosion and sediment control measures identified in the plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters. Locations where vehicles enter or exit the site shall be inspected for evidence of off-site sediment tracking.
 - Based on the results of the inspection, the description of potential pollutant sources identified in section 1 above and pollution prevention measures identified in Section 2 above shall be revised as appropriate as soon as practicable after such inspection. Any changes to this plan resulting from the required inspections shall be implemented within 7 calendar days following the inspection.
 - A report summarizing the scope of the inspection, name(s) and qualifications of personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of this stormwater pollution prevention plan and actions taken in accordance with section 4.b shall be made and retained as part of the plan for at least three (3) years after the date of the inspection. The report shall be signed in accordance with Part VI.G of the general permit and copied to the Village of Oswego.
 - If any violation of the provisions of this plan is identified during the conduct of the construction work covered by this plan, the Resident Engineer or Resident Technician shall complete and file an "Incidence of Noncompliance" (ION) report for the identified violation. The Resident Engineer or Resident Technician shall use forms provided by the Illinois Environmental Protection Agency and shall include specific information on the cause of noncompliance, actions which were taken to prevent any further causes of noncompliance, and a statement detailing any environmental impact which may have resulted from the noncompliance. All reports of noncompliance shall be signed by a responsible authority in accordance with Part VI. G of the general permit. The report of noncompliance shall be mailed to the following address:

Illinois Environmental Protection Agency
Division of Water Pollution Control
Attn: Compliance Assurance Section
2200 Churchill Road
P.O. Box 19276
Springfield, Illinois 62794-9276
- Non-Stormwater Discharges.

Except for flows from fire fighting activities, sources of non-stormwater that may be combined with stormwater discharges associated with the construction activity addressed in this plan, are described below:

 - Water main flushing
 - Fire hydrant flushing
 - Watering for dust control
 - Irrigation drainage for vegetative growth for seeding, etc.

The pollution prevention measures, as described below, will be implemented for non-stormwater components of the discharge.

The fire hydrant and water main shall not be flushed directly on the exposed area of sub grade of the pavement. Hoses shall be used to direct the flow into the storm sewer system, if available.

The erosion due to irrigation of seeding shall be considered minor.

Contractor to provide the above non-stormwater discharged control to the standard specification required by the County or the approved equal.
- Seeding

All disturbed areas shall be IDOT Class 2a Seeding. See IDOT Specifications for proposed seed mixes.

CONTRACTOR'S AND SUBCONTRACTOR'S CERTIFICATE

I certify under penalty of law that I understand the terms and conditions of the general National Pollutant Discharge Elimination System (NPDES) permit (ILR10) that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification.

CONTRACTOR'S PRINTED NAME AND SIGNATURE	CERTIFICATION DATE
CONTRACTOR TITLE	TELEPHONE NUMBER
CONTRACTOR COMPANY NAME AND ADDRESS	
SUBCONTRACTOR'S NAME AND SIGNATURE	CERTIFICATION DATE
SUBCONTRACTOR'S TITLE	TELEPHONE NUMBER
SUBCONTRACTOR'S COMPANY NAME AND ADDRESS	

STONEHILL RD. LIFT STATION

SITE ADDRESS

IEPA:ILR10 PERMIT # N/A

NO.	DATE	BY	REVISION DESCRIPTION
1	12/17/19	DWS	PLAN REVISIONS & BID ALTERNATE #1 ADDED

ILLINOIS DESIGN FIRM
184.001322
2363 SEQUOIA DRIVE SUITE 101
AURORA, ILLINOIS 60506
PHONE: 630.653.7560
FAX: 630.953.7646



STONEHILL ROAD LIFT STATION DECOMMISSION
CLIENT: VILLAGE OF OSWEGO
OSWEGO, IL
FINAL ENGINEERING - FOR BID
EROSION CONTROL SPECIFICATIONS

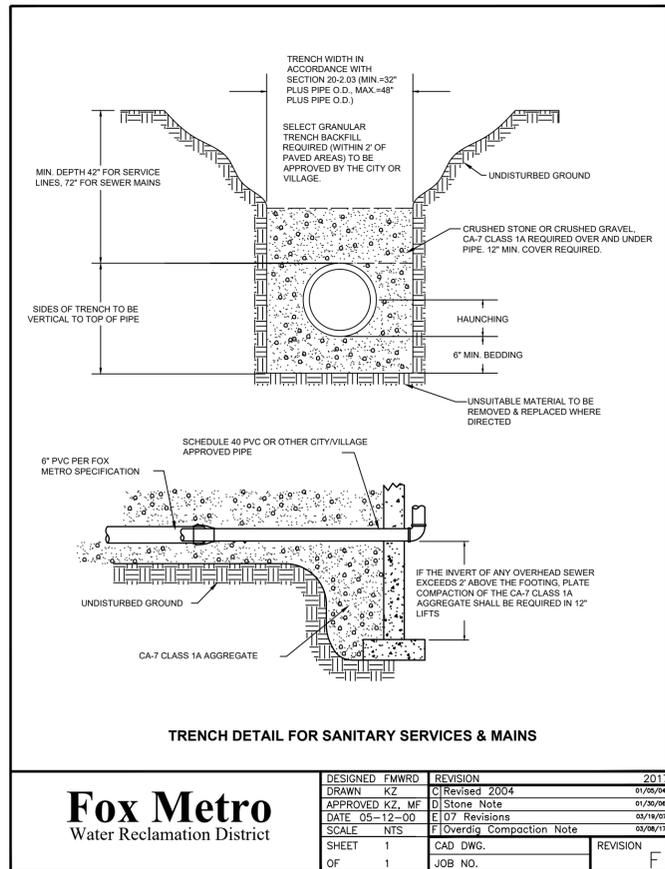
BAR IS ONE INCH ON OFFICIAL DRAWINGS
0 1"

IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY

DRAWN BY: MPL
APPROVED: DWS
JOB DATE: 05/23/2019
JOB NO: 180055.02

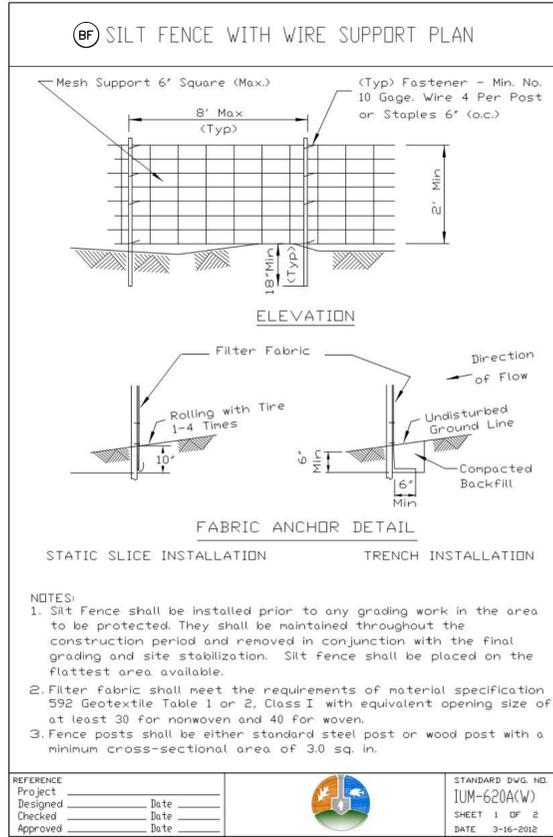
DRAWING
C-07

J:\2018\180055\180055.02 - Stone Hill Road Lift Station Decommission\CAD\Drawings\180055.02-Details.dwg
 Xref: sfg-1--d01_8814093--res-Tabulations
 11/21/2019 12:01:54 PM



Fox Metro
Water Reclamation District

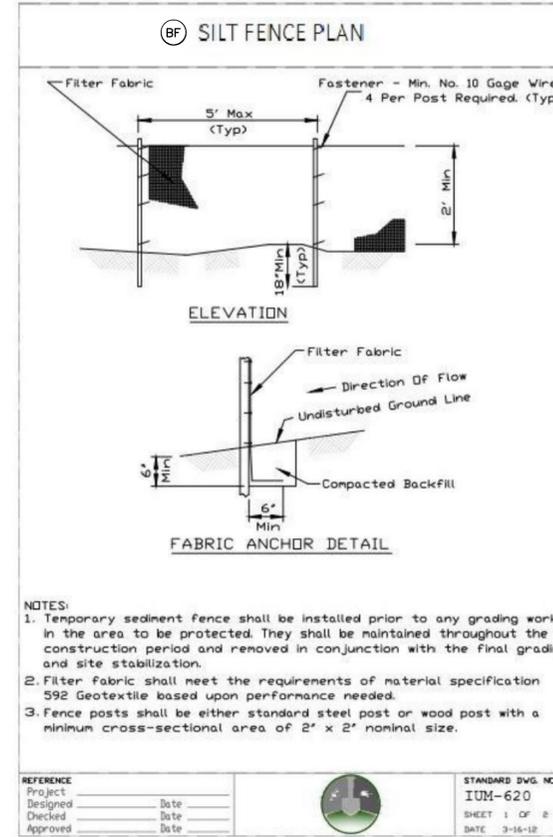
DESIGNED	FMWRD	REVISION	DATE
DRAWN	KZ	C Revised	01/08/04
APPROVED	KZ, MF	D Stone Note	01/26/06
DATE	05-12-00	E 07 Revisions	03/18/07
SCALE	NTS	F Overdig Compaction Note	03/08/17
SHEET	1	CAD DWG.	REVISION
OF	1	JOB NO.	F



NOTES:

- Silt 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. Silt fence shall be placed on the flattest area available.
- Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1 or 2, Class I with equivalent opening size of at least 30 for nonwoven and 40 for woven.
- Fence posts shall be either standard steel post or wood post with a minimum cross-sectional area of 3.0 sq. in.

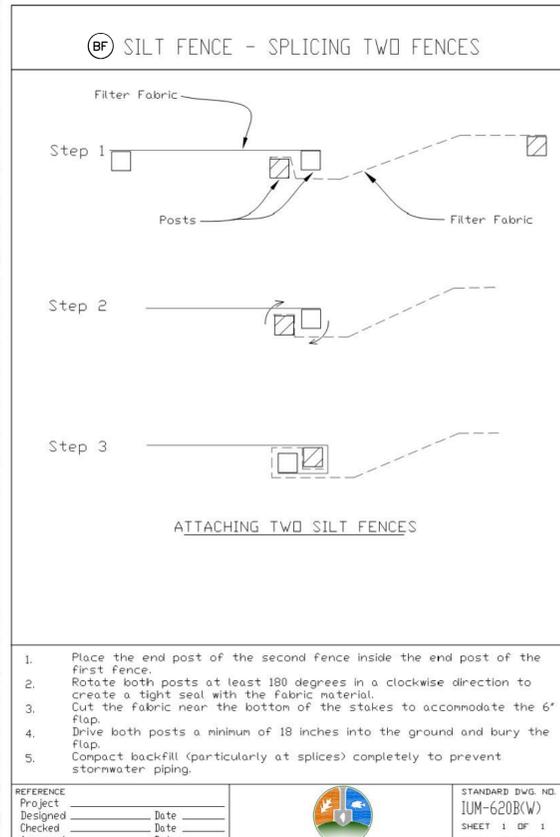
REFERENCE Project	Date	DESIGNED	Date	CHECKED	Date	APPROVED	Date
STANDARD DWG. NO. IUM-620A(W)							
SHEET 1 OF 2							
DATE 3-16-2012							



NOTES:

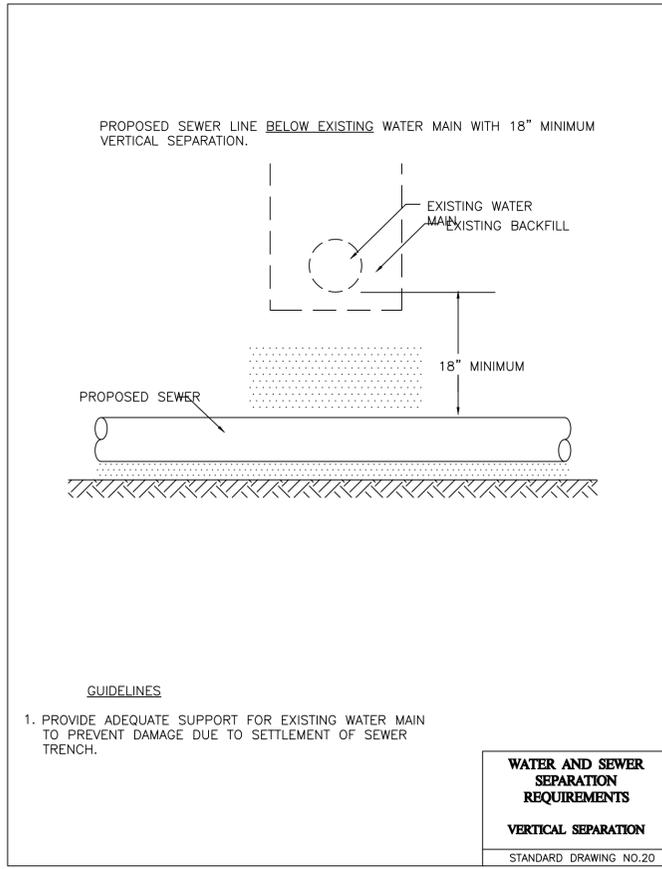
- Temporary sediment fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
- Filter fabric shall meet the requirements of material specification 592 Geotextile based upon performance needed.
- Fence posts shall be either standard steel post or wood post with a minimum cross-sectional area of 2" x 2" nominal size.

REFERENCE Project	Date	DESIGNED	Date	CHECKED	Date	APPROVED	Date
STANDARD DWG. NO. IUM-620							
SHEET 1 OF 2							
DATE 3-16-12							



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

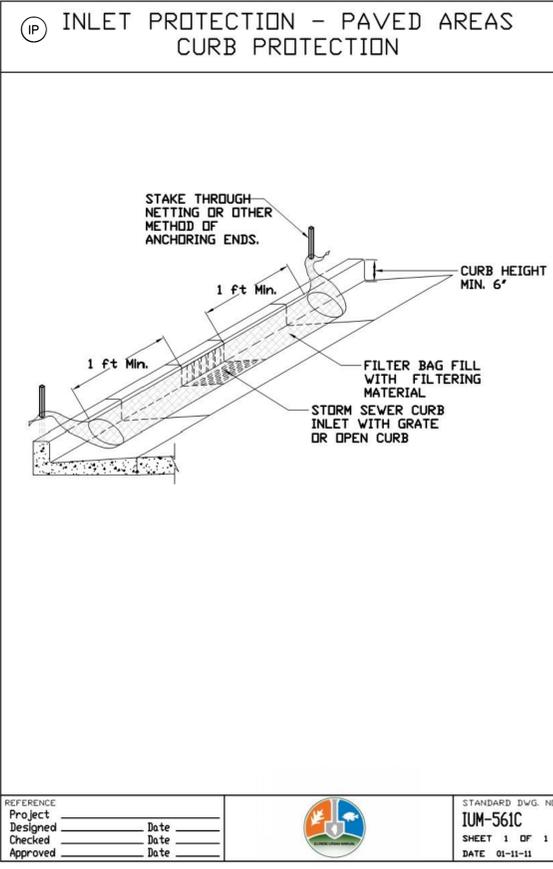
REFERENCE Project	Date	DESIGNED	Date	CHECKED	Date	APPROVED	Date
STANDARD DWG. NO. IUM-620B(W)							
SHEET 1 OF 1							
DATE 3-16-2012							



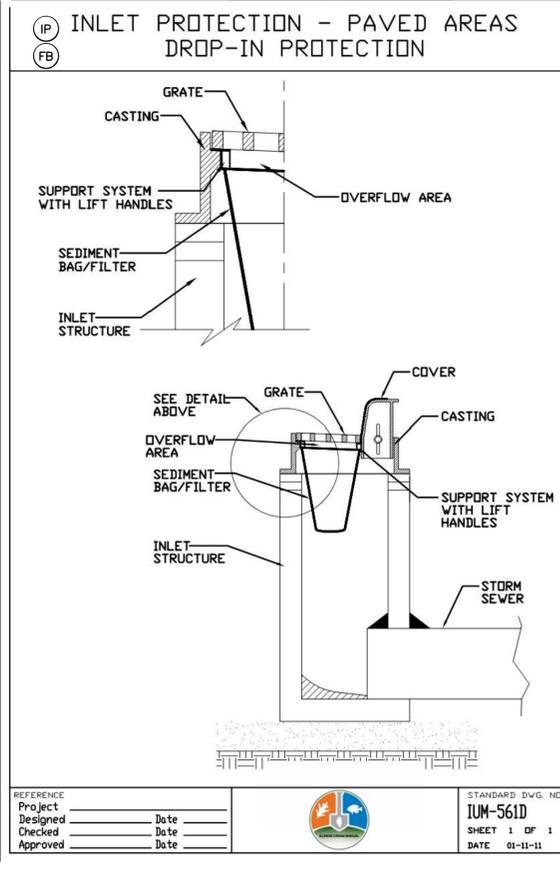
GUIDELINES

- PROVIDE ADEQUATE SUPPORT FOR EXISTING WATER MAIN TO PREVENT DAMAGE DUE TO SETTLEMENT OF SEWER TRENCH.

DESIGNED	DATE	REVISION	DATE
FMWRD	2017		



REFERENCE Project	Date	DESIGNED	Date	CHECKED	Date	APPROVED	Date
STANDARD DWG. NO. IUM-561C							
SHEET 1 OF 1							
DATE 01-11-11							



REFERENCE Project	Date	DESIGNED	Date	CHECKED	Date	APPROVED	Date
STANDARD DWG. NO. IUM-561D							
SHEET 1 OF 1							
DATE 01-11-11							

NO.	DATE	BY	DESCRIPTION
1	12/17/19	DWS	PLAN REVISIONS & BID ALTERNATE #1 ADDED

ILLINOIS DESIGN FIRM
184,001322
2363 SQUOIA DRIVE SUITE 101
AURORA, ILLINOIS 60506
PHONE: 630.553.7560
FAX: 630.553.7646

STONEHILL ROAD LIFT STATION DECOMMISSION
CLIENT: VILLAGE OF OSWEGO, IL
FINAL ENGINEERING - FOR BID
EROSION CONTROL DETAILS

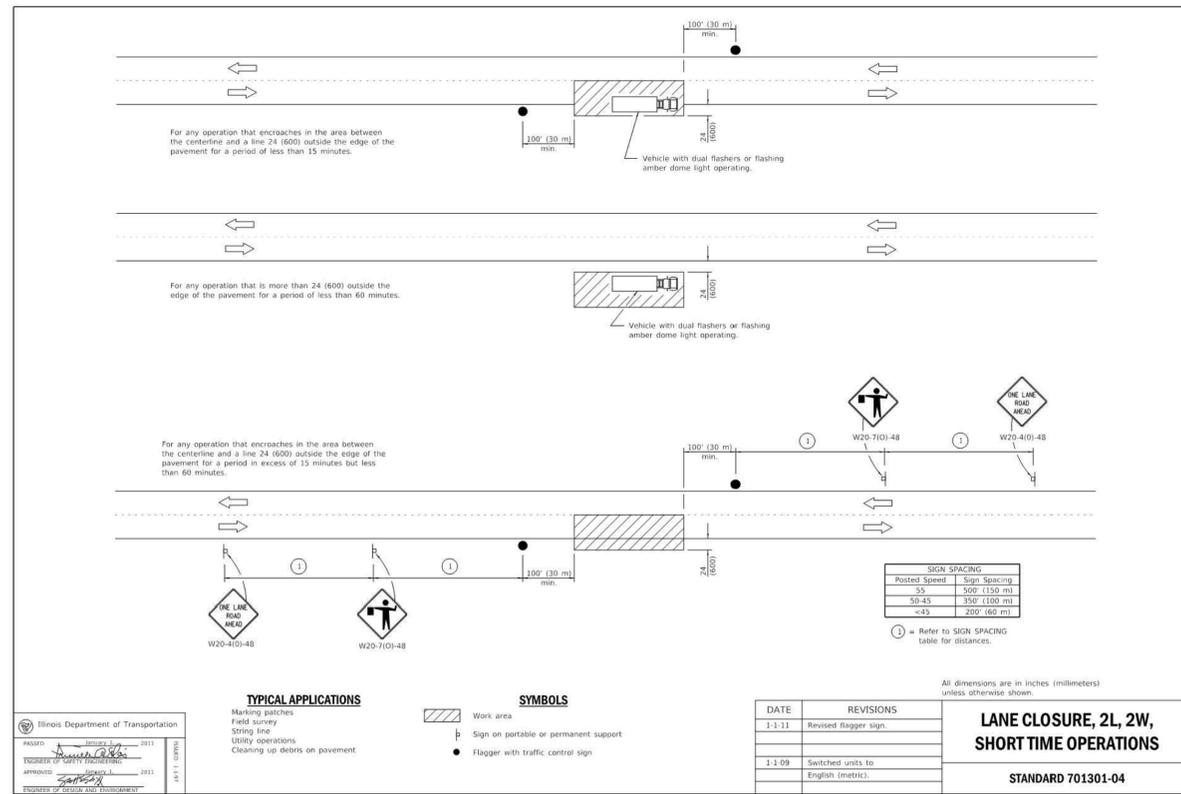
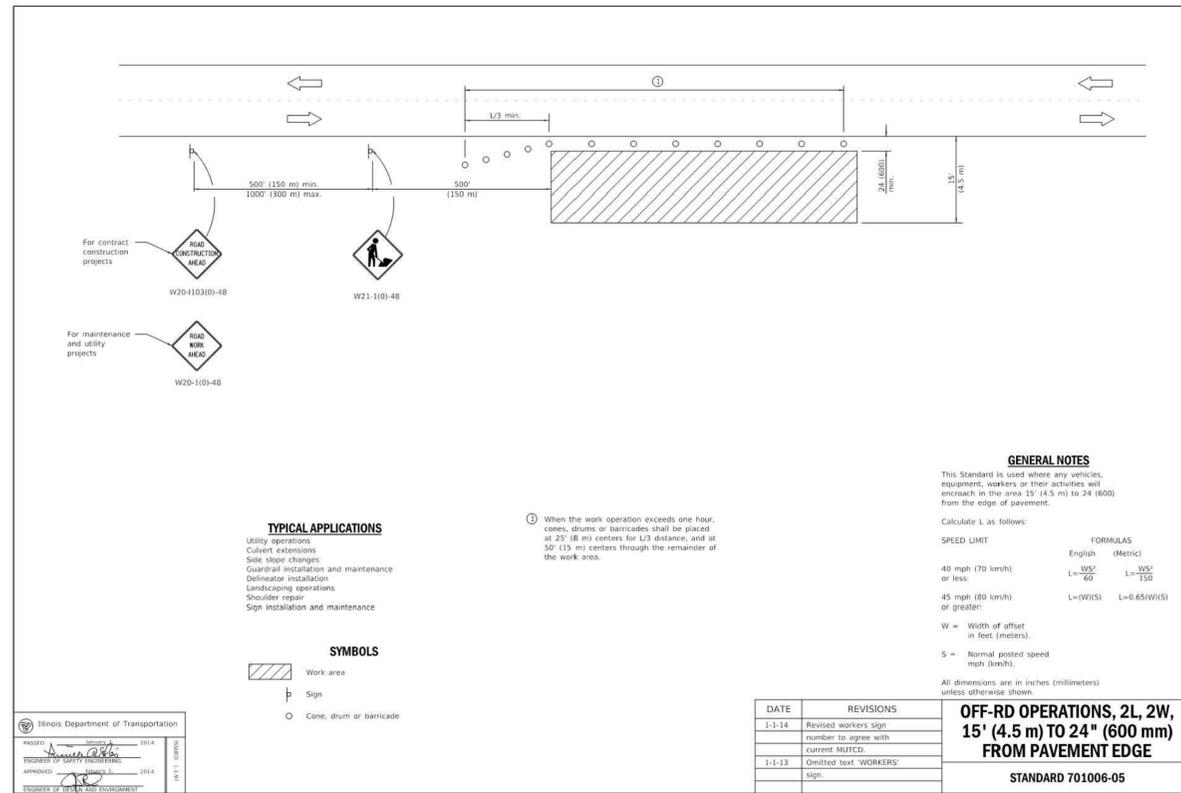
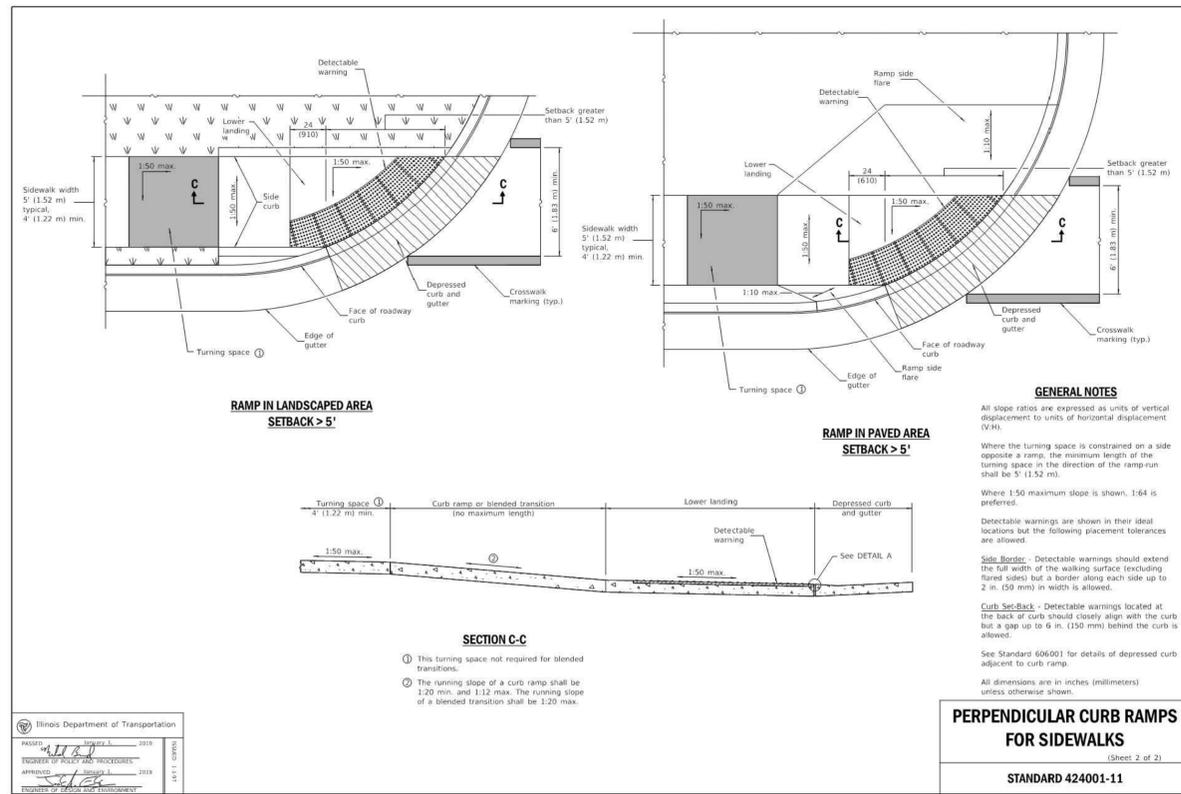
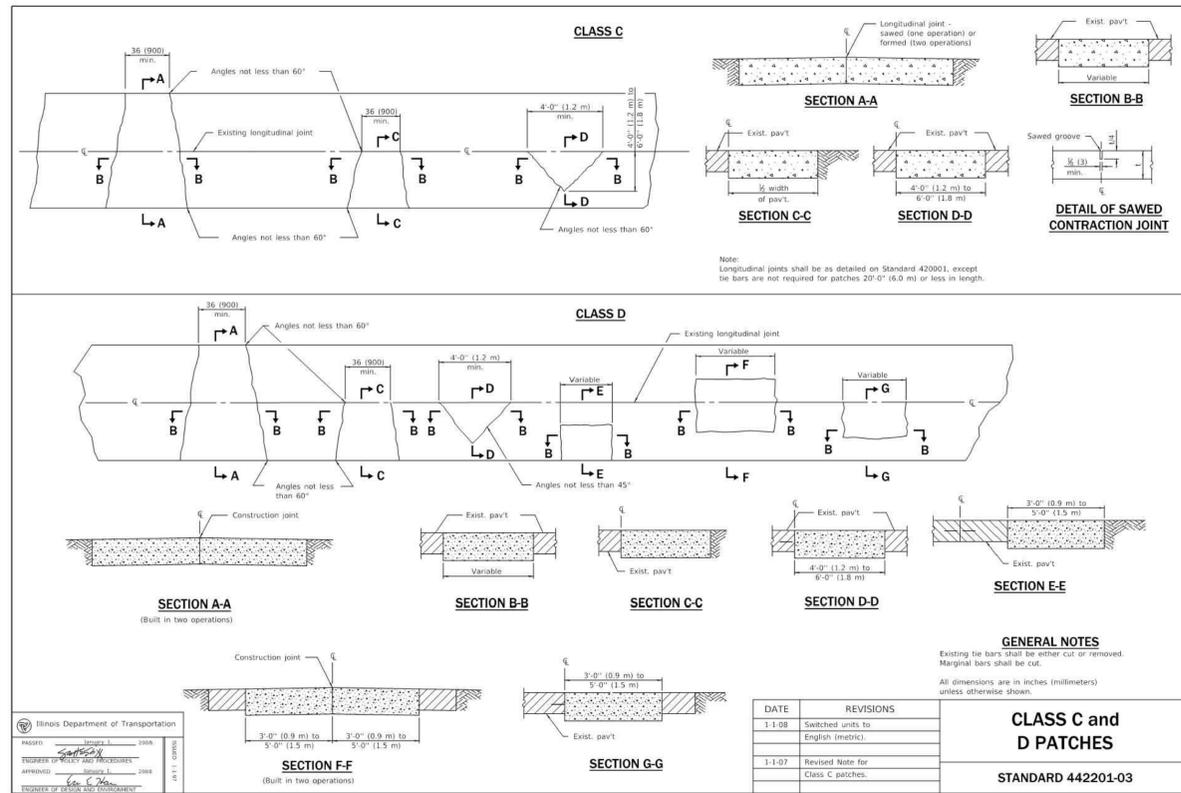
BAR IS ONE INCH ON OFFICIAL DRAWINGS
0" = 1"
IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY

DRAWN BY: MPL
APPROVED: DWS
JOB DATE: 05/23/2019
JOB NO: 180055.02

DRAWING
C-08

FINAL - FOR BID

Xref: sgt-1--001_8814093--res-Tabulations 11/21/2019 12:01:54 PM J:\2018\180055\180055.02 - Stone Hill Road Lift Station Decommission\CAD\Drawings\180055.02-Details.dwg



NO.	DATE	BY	REVISION DESCRIPTION
1	12/17/19		

ILLINOIS DESIGN FIRM
184.001322
2363 SQUOIA DRIVE SUITE 101
AURORA, ILLINOIS 60506
PHONE: 630.653.7560
FAX: 630.553.7646

STONEHILL ROAD LIFT STATION DECOMMISSION
CLIENT: VILLAGE OF OSWEGO
OSWEGO, IL

FINAL ENGINEERING - FOR BID

STANDARD CONSTRUCTION DETAILS

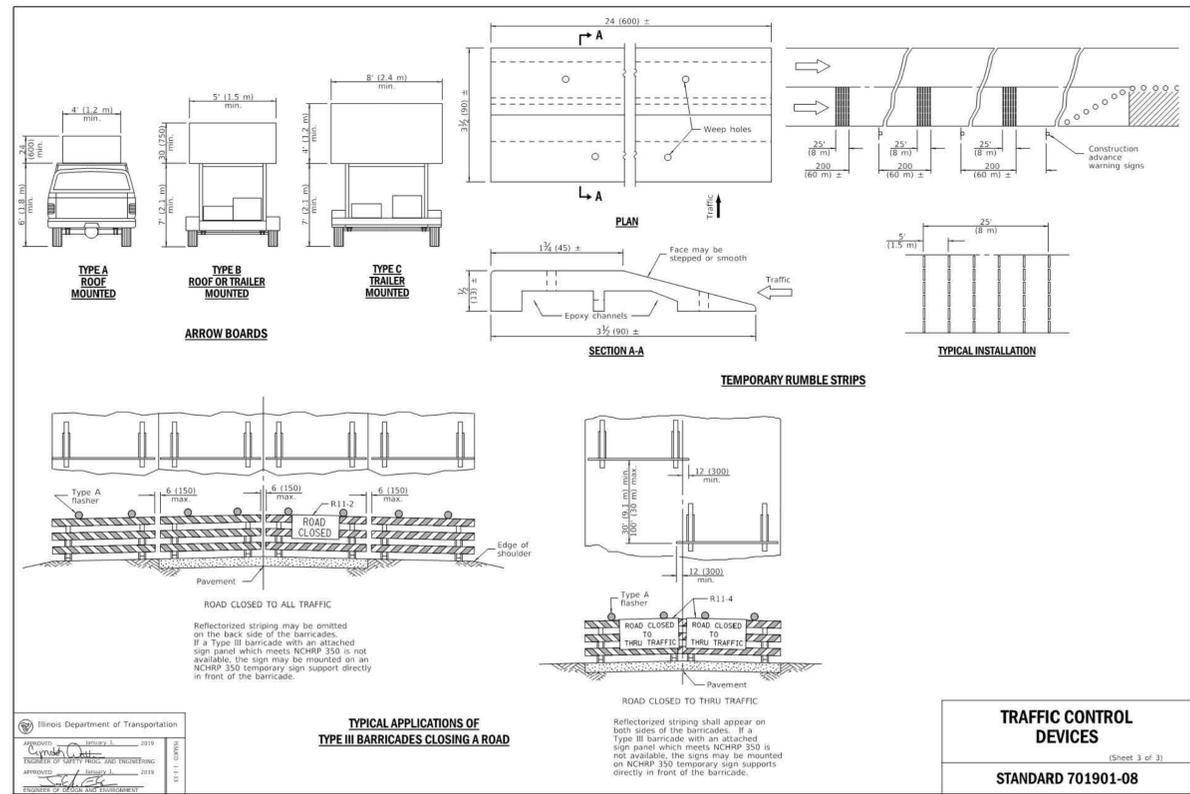
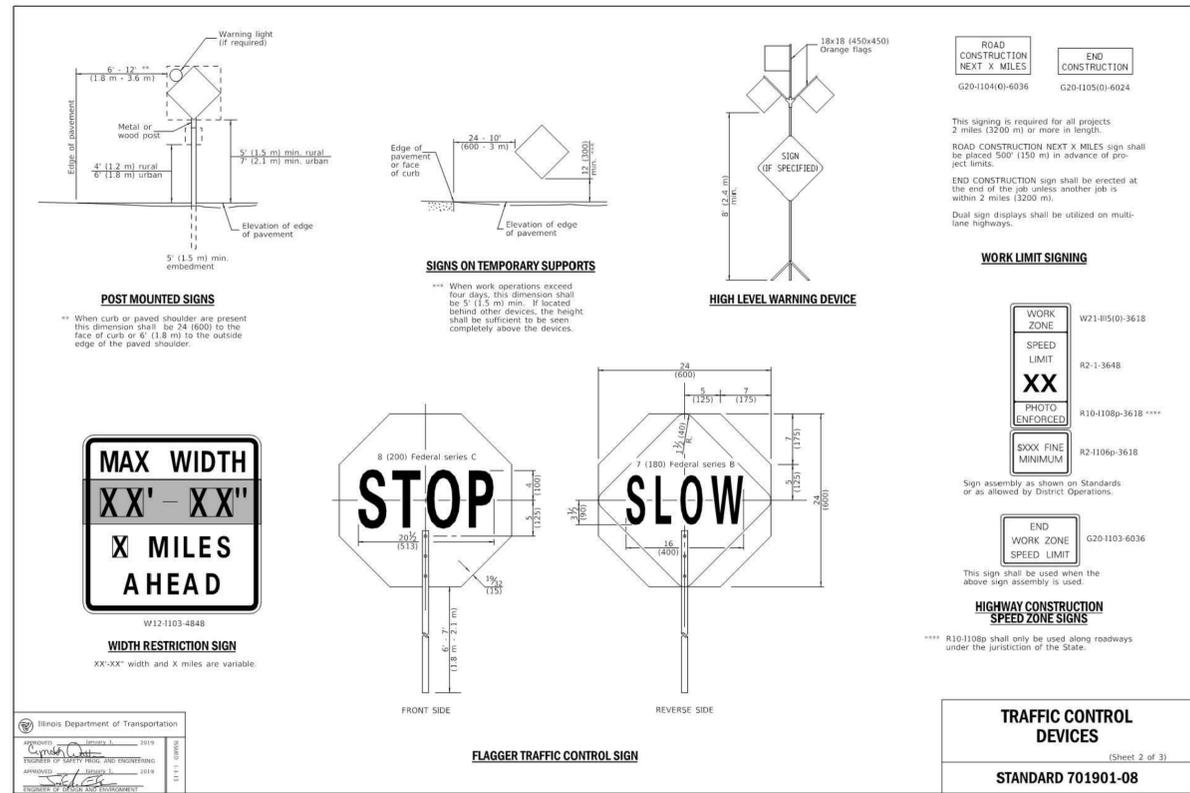
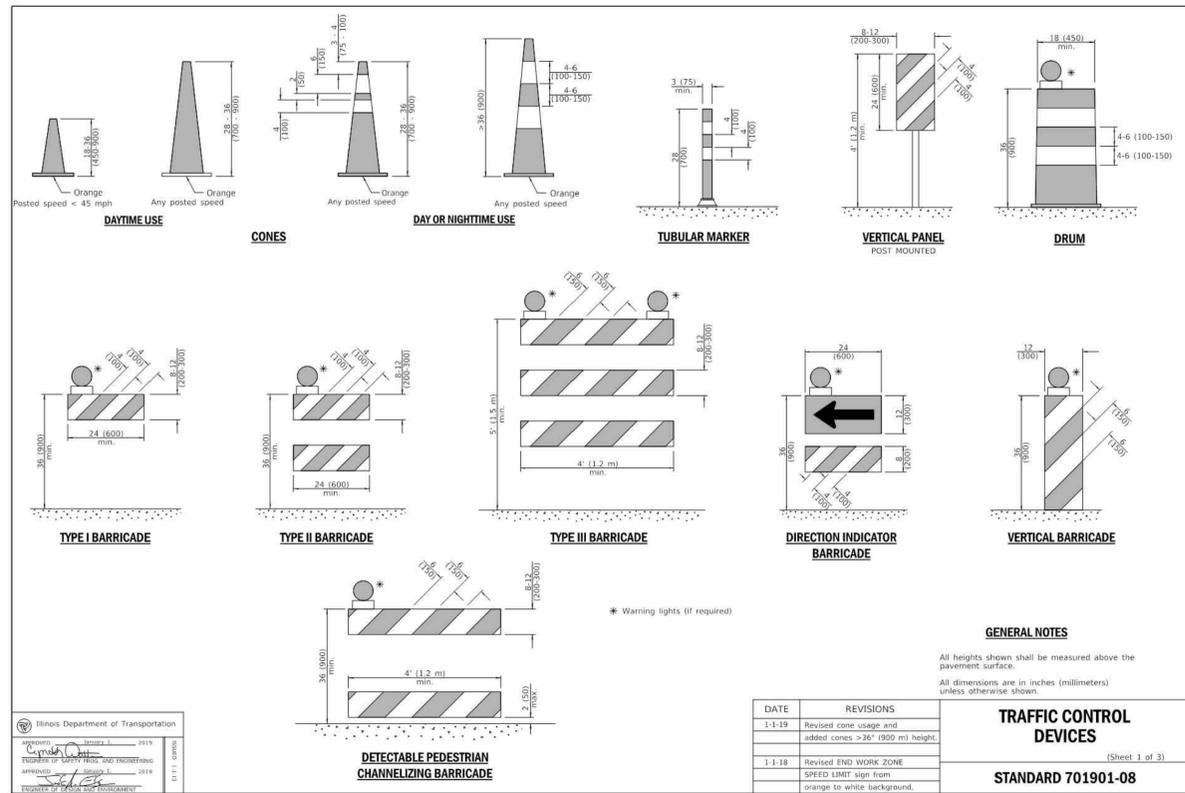
BAR IS ONE INCH ON OFFICIAL DRAWINGS
0 = 1"

IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY

DRAWN BY: MPL
APPROVED: DWS
JOB DATE: 05/23/2019
JOB NO: 180055.02

DRAWING
C-09

FINAL - FOR BID



NO.	DATE	BY	REVISION DESCRIPTION	
			PLAN REVISIONS	BID ALTERNATE #1 ADDED
1	12/17/19	DWS		

ILLINOIS DESIGN FIRM
184.001322
2363 SEQUOIA DRIVE SUITE 101
AURORA, ILLINOIS 60506
PHONE: 630.653.7560
FAX: 630.553.7646



STONEHILL ROAD LIFT STATION DECOMMISSION
CLIENT: VILLAGE OF OSWEGO
OSWEGO, IL
FINAL ENGINEERING - FOR BID
STANDARD CONSTRUCTION DETAILS

BAR IS ONE INCH ON OFFICIAL DRAWINGS
0 1"
IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY

DRAWN BY: MPL
APPROVED: DWS
JOB DATE: 05/23/2019
JOB NO: 180055.02

DRAWING
C-10

FINAL - FOR BID



rubino ENGINEERING INC.
425 Shepard Drive
Eglin, Illinois 60123

Project Name: Sewer Extension and Water Main Replacement
Project Location: Woolley Road, Oswego, Illinois
Client: Village of Oswego
Rubino Project #: G19.100

Boring Location Plan 1

Appendix C - Soil Classification General Notes

DRILLING & SAMPLING SYMBOLS:
 SS: Split Spoon - 1 3/8" I.D., 2" O.D., unless otherwise noted
 ST: Thin-Walled Tube - 3" O.D., unless otherwise noted
 PM: Pressuremeter
 RB: Rock Bit
 DB: Diamond Bit - 4", N, B

PS: Piston Sample
 WS: Wash Sample
 HA: Hand Auger
 HS: Hollow Stem Auger
 BS: Bulk Sample

Standard "N" Penetration: Blows per foot of a 140-pound hammer falling 30 inches on a 2-inch O.D. split spoon sampler (SS), except where noted.

WATER LEVEL MEASUREMENT SYMBOLS:
 Water levels indicated on the boring logs are the levels measured in the borings at the times indicated. In pervious soils, the indicated levels may reflect the location of groundwater. In low permeability soils, the accurate determination of ground water levels is not possible with only short-term observations.

DESCRIPTIVE SOIL CLASSIFICATION:
 Soil Classification is based on the Unified Soil Classification System as defined in ASTM D-2487 and D-2488. Coarse Grained Soils have more than 50% of their dry weight retained on a #200 sieve; they are described as: boulders, cobbles, gravel or sand. Fine Grained Soils have less than 50% of their dry weight retained on a #200 sieve; they are described as: clays, if they are plastic, and silts if they are slightly plastic or non-plastic. Major constituents may be added as modifiers and minor constituents may be added according to the relative proportions based on grain size. In addition to gradation, coarse grained soils are defined on the basis of their relative in-place density and fine-grained soils on the basis of their consistency. Example: Lean clay with sand, trace gravel, silt (CL); silty sand, trace gravel, medium dense (SM).

CONSISTENCY OF FINE-GRAINED SOILS:			RELATIVE DENSITY OF COARSE-GRAINED SOILS		
Unconfined Compressive Strength, q_u (tsf)	N-Blows/ft.	Consistency	N-Blows/ft.	Relative Density	
< 0.25	< 2	Very Soft	0 - 3	Very Loose	
0.25 - 0.5	2 - 4	Soft	4 - 9	Loose	
0.5 - 1	4 - 8	Medium Stiff	10 - 29	Medium Dense	
1 - 2	8 - 15	Stiff	30 - 49	Dense	
2 - 4	15 - 30	Very Stiff	50 - 80	Very Dense	
4 - 8	30 - 50	Hard	80+	Extremely Dense	
> 8	> 50	Very Hard			

RELATIVE PROPORTIONS OF SAND & GRAVEL		GRAIN SIZE TERMINOLOGY	
Descriptive Term	% of Dry Weight	Major Component	Size Range
Trace	< 15	Boulders	Over 12 in. (300mm)
With	15 - 29	Cobbles	12 in. To 3 in. (300mm to 75mm)
Modifier	> 30	Gravel	3 in. To #4 sieve (75mm to 4.75mm)
		Sand	#4 to #200 sieve (4.75mm to 0.075mm)

RELATIVE PROPORTIONS OF FINES

Descriptive Term	% of Dry Weight
Trace	< 5
With	5 - 12
Modifier	> 12

*Descriptive Terms apply to components also present in sample

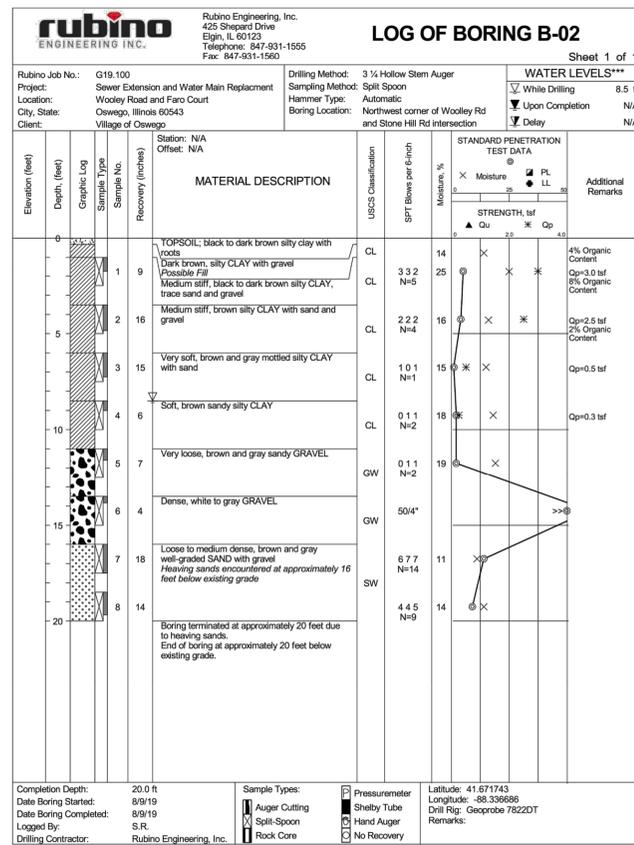
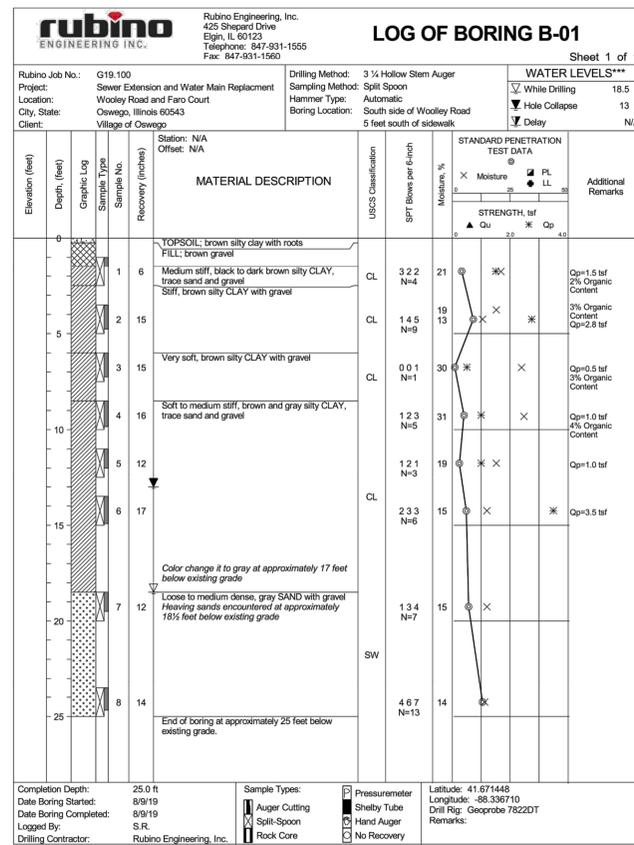
rubino ENGINEERING INC.
G19.100 - Proposed Sewer Extension and Water Main Replacement - Oswego, Illinois

Appendix D - Soil Classification Chart

SOIL CLASSIFICATION CHART
 NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

MAJOR DIVISIONS	SYMBOLS		TYPICAL DESCRIPTIONS
	GRAPH	LETTER	
COARSE GRAINED SOILS	CLEAN GRAVELS (LITTLE OR NO FINES)	GW	WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
	GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)	GP	POORLY-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
	MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GM	SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES
FINE GRAINED SOILS	CLEAN SANDS (LITTLE OR NO FINES)	SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
	SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)	SP	POORLY-GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES
	MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SM	SILTY SANDS, SAND-SILT MIXTURES
HIGHLY ORGANIC SOILS		SC	CLAYEY SANDS, SAND-CLAY MIXTURES
		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
		CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
		OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
		MH	INORGANIC SILTS, MICAEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
	CH	INORGANIC CLAYS OF HIGH PLASTICITY	
	OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS	
		PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

rubino ENGINEERING INC.
G19.100 - Proposed Sewer Extension and Water Main Replacement - Oswego, Illinois



NO.	DATE	BY	REVISION DESCRIPTION
1	12/17/19	DWS	PLAN REVISIONS & BID ALTERNATE #1 ADDED

ILLINOIS DESIGN FIRM
 # 184,001,322
 2363 SEQUOIA DRIVE SUITE 101
 AURORA, ILLINOIS 60506
 PHONE: 630.553.7560
 FAX: 630.553.7646

HRGreen

STONEHILL ROAD LIFT STATION DECOMMISSION
 CLIENT: VILLAGE OF OSWEGO
 OSWEGO, IL
 FINAL ENGINEERING - FOR BID
 SOIL BORING DETAILS

BAR IS ONE INCH ON OFFICIAL DRAWINGS
 0" = 1"
 IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY

DRAWN BY: MPL
 APPROVED: DWS
 JOB DATE: 05/23/2019
 JOB NO: 180055.02

DRAWING
C-11