

# SUNSET DRIVE SANITARY SEWER REPLACEMENT

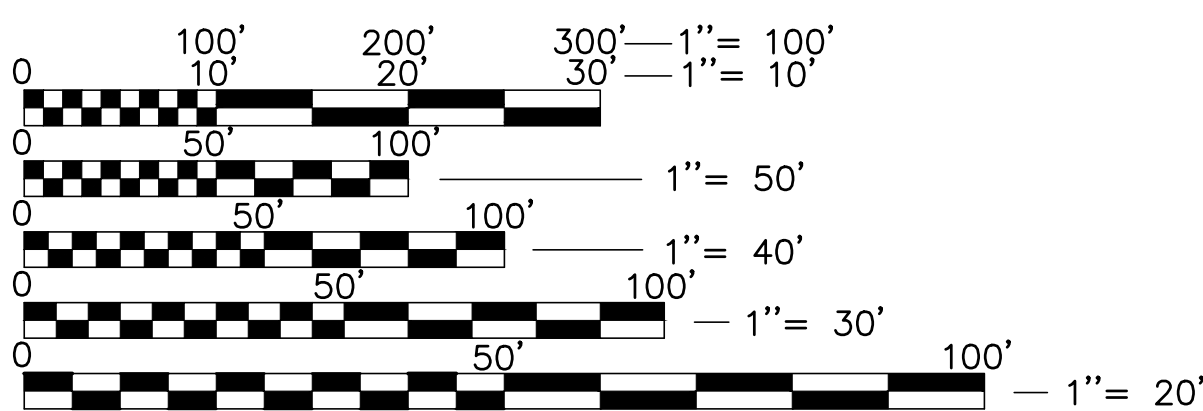
## LAKE COUNTY PUBLIC WORKS

### STANDARD SYMBOLS

FEATURE	EXISTING	PROPOSED
BUFFALO BOX		
BUSH/SHRUB		
CATCH BASIN		
CLEANOUT		
COMBINE SEWER LINE		
CONTOUR		
CULVERT		
DITCH/SWALE		
ELECTRIC LINE		
ELECTRIC MANHOLE		
FENCE		
FIRE HYDRANT		
FLARED END SECTION		
GAS LINE		
GAS MANHOLE		
GAS VALVE		
INLET		
LIGHT POLE		
OVERHEAD WIRES		
POWER POLE		
R.O.W LINE		
R.O.W MARKER		
SANITARY FORCEMAIN LINE		
SANITARY SEWER LINE		
SANITARY SEWER MANHOLE		
SIGN		
SPOT ELEVATION		
STORM SEWER LINE		
STORM SEWER MANHOLE		
TELEPHONE LINE		
TELEPHONE MANHOLE		
TELEPHONE BOX/PEDESTAL		
TREE--CONIFEROUS (SIZE/TAG#)		
TREE--DECIDUOUS (SIZE/TAG#)		
VALVE BOX		
VALVE VAULT		
WATER VALVE		
WATERMAIN LINE		

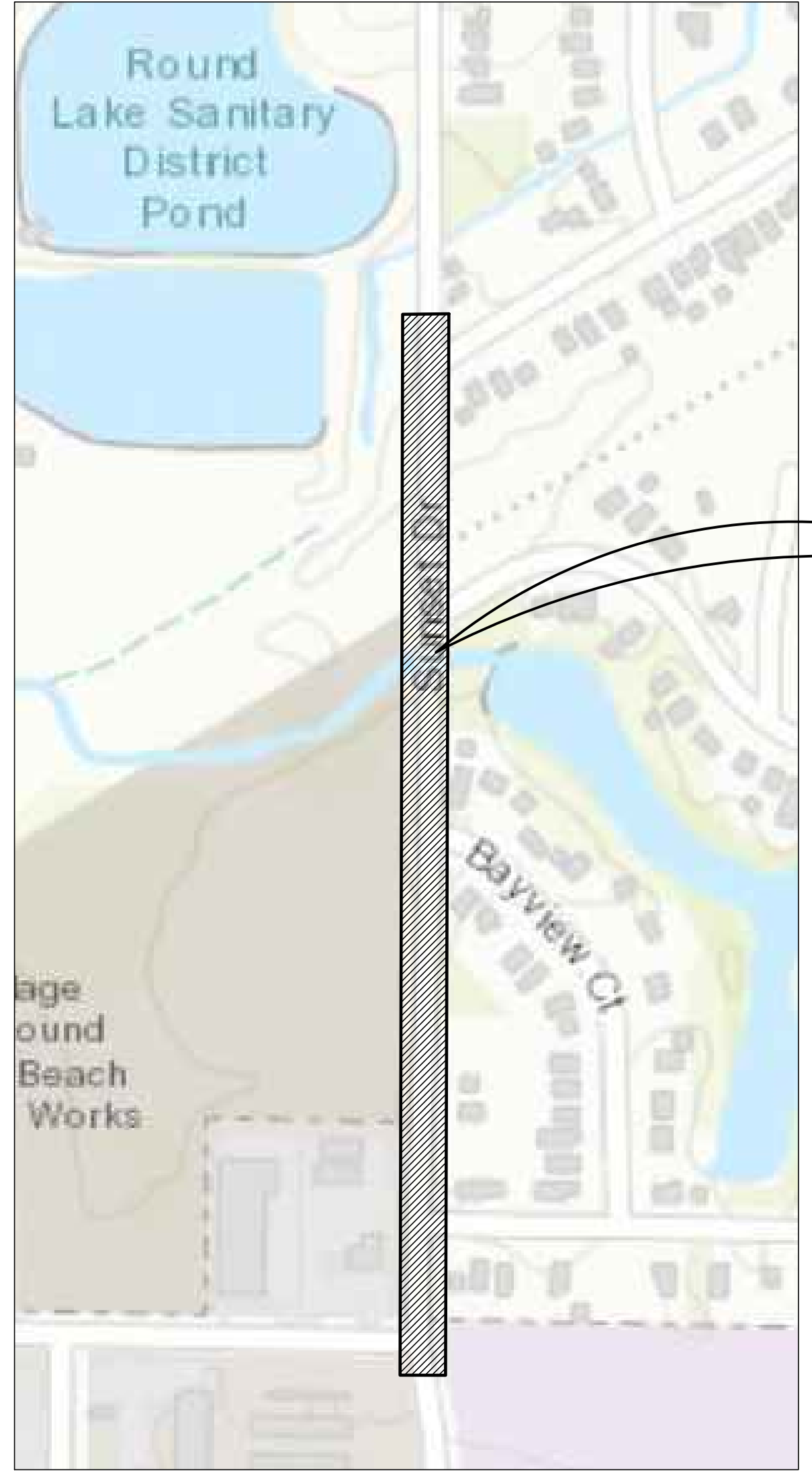
**J.U.L.I.E**  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION CALL 811

Know what's below.  
Call before you dig.



**FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.**

**NOTE: CONSTRUCTION MEANS, METHODS AND JOB SITE SAFETY IS THE SOLE AND EXCLUSIVE RESPONSIBILITY OF THE CONTRACTOR**



**LOCATION MAP**  
(Not to Scale)

**PROJECT LOCATION**  
SUNSET DRIVE SANITARY SEWER REPLACEMENT  
SUNSET DRIVE  
LAKE COUNTY, ILLINOIS

**ENGINEER:**  
GEWALT HAMILTON ASSOCIATES, INC.  
625 FOREST EDGE DRIVE  
VERNON HILLS, ILLINOIS 60061  
TELEPHONE: 847-478-9700

**TOPOGRAPHIC SURVEY BY:**  
GEWALT HAMILTON ASSOCIATES, INC.  
625 FOREST EDGE DRIVE  
VERNON HILLS, ILLINOIS 60061  
TELEPHONE: 847-478-9700

**COORDINATING/PERMITTING AGENCIES:**  
Lake County Public Works Department 847.377.7145  
Lake County Division of Transportation 847.377.7400  
IEPA 217.732.1724  
Round Lake 847.546.5400  
Round Lake Beach 847.546.2351

**UTILITY AGENCIES:**  
ComEd 847.816.5239  
Comcast 630.600.6347  
AT&T 630.573.6464  
North Shore Gas Co. 847.263.4678  
Nicor Gas Co. 630.388.3830

### SHEET INDEX

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### PLANS PREPARED FOR:



### PLANS PREPARED BY:



625 Forest Edge Drive ■ Vernon Hills, IL. 60061  
TEL 847.478.9700 ■ FAX 847.478.9701

### CONTROL POINTS:

Point #	Northing	Easting	Elevation	Description
1	2073928.83	1050854.88	765.90	CP1-MN 9
2	2075284.24	1050842.98	776.69	CP2-MN 10
3	2075338.72	1050122.38	791.08	CP3-MN 11
4	2075450.02	1048090.45	759.64	CP4-XTC 12
5	2076689.04	1048141.95	747.77	CP5-MN 13
6	2075342.18	1049342.54	780.24	CP6-IR 14
7	2075349.60	1048874.83	758.69	CP7-XSW 15
8	2075341.87	1049910.49	796.74	CP8-MN 16
9	2075308.04	1050337.07	789.27	CP9-MN 17

**BENCHMARK:**  
ELEVATIONS SHOWN HEREON ARE OBTAINED VIA GPS USING TRIMBLE VRS@NOW™ (NO PUBLISHED MONUMENT VERIFIED)  
DATUM: NAVD88

SIGNED: BRIAN J. WESOLOWSKI P.E.

DATE: \_\_\_\_\_

ILLINOIS LICENSE NO.: 062-066656

EXPIRATION DATE: FEBRUARY 28, 2022

**ISSUED FOR BID**

**GHA GEWALT HAMILTON ASSOCIATES, INC.**  
625 Forest Edge Drive ■ Vernon Hills, IL. 60061  
TEL 847.478.9700 ■ FAX 847.478.9701

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**TITLE SHEET**  
SUNSET DRIVE SANITARY SEWER REPLACEMENT  
LAKE COUNTY PUBLIC WORKS DEPARTMENT  
LAKE COUNTY, ILLINOIS

NO.	BY	DATE	REVISION

FILE: 5600.004-DT1.dwg	SHEET NUMBER:
DRAWN BY: WR DATE: 2/21/22	GHA PROJECT # 5600.004
CHECKED BY: BJW DATE: 2/21/22	SCALE: N.T.S.
	<b>1</b> OF 12 SHEETS



**GENERAL NOTES**

- ALL CONSTRUCTION SHALL BE PERFORMED ACCORDING TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" LATEST EDITION, THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" LATEST EDITION, THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" LATEST EDITION, THE DETAILS IN THESE PLANS, THE CONTRACT DOCUMENTS, ALL APPLICABLE REQUIREMENTS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION, THE IEPA AND ORDINANCES OF AUTHORITIES HAVING JURISDICTION AND ALL ADDENDA THERETO.
- EASEMENTS FOR THE EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE, AND UTILITIES WITHIN PUBLIC RIGHTS-OF-WAY ARE SHOWN ON THE PLANS ACCORDING TO AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION IN THE FIELD OF THESE UTILITY LINES AND THEIR PROTECTION FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
- WHENEVER, DURING CONSTRUCTION OPERATIONS, ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF GUTTERS, DRAINAGE STRUCTURES, DITCHES, ETC. SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, THE LOOSE MATERIAL WILL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE CONTRACT. THE CONTRACTOR'S FAILURE TO PROVIDE THE ABOVE WILL PRECLUDE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIALS CREATED AS A RESULT THEREOF.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AFFECTING THEIR WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE PRIOR TO ORDERING MATERIALS. IN ADDITION, THE CONTRACTOR MUST VERIFY THE LINE AND GRADES. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONSTRUCTION PLANS, STANDARD SPECIFICATIONS AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTION FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSION OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTION, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT THEIR OWN RISK AND EXPENSE AND NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR ANY COSTS INCURRED.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE THE MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER, AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 72 HOURS PRIOR TO BEGINNING WORK.
- IF DURING CONSTRUCTION THE CONTRACTOR ENCOUNTERS OR OTHERWISE BECOMES AWARE OF ANY SEWERS OR UNDERDRAINS OTHER THAN THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL INFORM THE ENGINEER, WHO SHALL DIRECT THE WORK NECESSARY TO MAINTAIN OR REPLACE THE FACILITIES IN SERVICE AND TO PROTECT THEM FROM DAMAGE DURING CONSTRUCTION IF MAINTAINED. EXISTING FACILITIES TO BE MAINTAINED THAT ARE DAMAGED BECAUSE OF NON-COMPLIANCE WITH THIS PROVISION SHALL BE REPLACED AT THE CONTRACTOR'S OWN EXPENSE.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY TOILET FACILITIES AND HAND SANITIZING STATIONS FOR THE USE OF ALL THE CONTRACTOR'S PERSONNEL EMPLOYED ON THE WORK SITE. THE FACILITIES SHALL BE MAINTAINED IN PROPER SANITARY CONDITION THROUGHOUT THE PROJECT. THE LOCATION OF THE TEMPORARY FACILITIES SHALL BE APPROVED BY THE ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE NPDES PERMIT AND SWPPP MANUAL. IF NO NPDES PERMIT OR SWPPP MANUAL IS NEEDED FOR THE PROJECT THE CONTRACTOR SHALL PERFORM SOIL EROSION SEDIMENT CONTROL BEST PRACTICES OR AS DIRECTED BY THE OWNER TO PREVENT ILLICIT DISCHARGES FROM THE SITE.

**PROJECT SPECIFIC NOTES**

- ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE GUARANTEED BY THE CONTRACTOR AND HIS SURETY FOR A PERIOD OF 12 MONTHS FROM THE DATE OF INITIAL ACCEPTANCE OF THE WORK BY THE OWNER AGAINST ALL DEFECTS IN MATERIALS AND WORKMANSHIP OF WHATEVER NATURE.
- ALL CONSTRUCTION WILL BE INSPECTED BY THE OWNER'S REPRESENTATIVE. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE COUNTY AS WELL AS THE STANDARD SPECIFICATIONS.
- CONTRACTOR SHALL NOTIFY THE LAKE COUNTY DEPARTMENT OF PUBLIC WORKS (847-377-7145) AND THE PROJECT ENGINEER (847-478-9700) AT LEAST 72 HOURS PRIOR TO BEGINNING ANY WORK ON THIS PROJECT.
- THE CONTRACTOR SHALL INDEMNIFY THE OWNER, ENGINEER, THE MUNICIPALITY AND THEIR AGENTS, FROM ALL LIABILITY INVOLVED IN CONSTRUCTION, INSTALLATION AND TESTING OF THE WORK ON THIS PROJECT.
- THE CONTRACTOR MUST CARRY INSURANCE IN ACCORDANCE WITH THE SPECIAL PROVISIONS. ALL OFFICIALS, EMPLOYEES AND AGENTS OF GEWALT HAMILTON ASSOCIATES, VILALGE OF ROUND LAKE, AND VILLAGE OF ROUND LAKE BEACH MUST BE LISTED AS ADDITIONAL INSURED.
- ALL ELEVATIONS ARE ON NAVD 88 VERTICAL DATUM.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL TRAFFIC CONTROL TO ADEQUATELY INFORM AND PROTECT THE PUBLIC OF ALL CONSTRUCTION OPERATIONS.
- STOCKPILING MATERIAL WITHIN THE 100 YEAR FLOOD PLAIN AND OR THE FLOODWAY IS STRICTLY PROHIBITED
- ALL STONE USED ON THE PROJECT SHALL BE CRUSHED UNLESS SPECIFICALLY NOTED OTHERWISE.
- ALL CONCRETE SHALL HAVE A LIGHT BROOM FINISH APPLIED WITHIN 1 HOUR OF FINAL STRIKING.
- ALL CONCRETE SHALL HAVE A WHITE, IDOT TYPE 3 CURING COMPOUND APPLIED TO THE SURFACE WITHIN 1 HOUR OF FINAL STRIKING AT THE MANUFACTURER RECOMMENDED APPLICATION RATE.
- 3/4" THICK PRE-MOLDED FIBER EXPANSION JOINTS WITH 2 , 3/4" x 18" PLAIN ROUND, STEEL DOWEL BARS SHALL BE INSTALLED IN ALL CURBS AT (45') FORTY-FIVE FOOT INTERVALS AND AT ALL P.C.'S, P.T.'S AND CURB RETURNS. ALTERNATE ENDS OF THE DOWEL BARS SHALL BE GREASED AND FITTED WITH METAL EXPANSION TUBES. ALL EXPANSION JOINTS MUST BE FREE OF CONCRETE FOR FULL DEPTH. CONTRACTION JOINTS SHALL BE TOOLED AT 15' INTERVALS.
- UNLESS OTHERWISE NOTED ON THE PLANS WHENEVER NEW CONCRETE ABUTS EXISTING/ OR NEW CONCRETE SET A 1/2" THICK PRE-MOLDED FIBER EXPANSION JOINT AND DOWEL WITH SMOOTH 12" #4 BARS @ 24" O.C. THIS INCLUDES CONCRETE POURED ADJACENT TO EXISTING SIDEWALKS, CURBS AND BUILDING. THE DOWEL BARS SHOULD BE 4" INTO EXISTING CONCRETE WITH 8" EXTENDING INTO NEW CONCRETE.
- ALL DOWEL BARS AND TIE BARS SHALL BE EPOXY COATED UNLESS NOTED OTHERWISE.
- ALL PAVEMENT SUBGRADE SHALL BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY (ASTM D-1557). ALL SUBGRADE IN LAWN AREAS SHALL BE COMPACTED TO 90% MODIFIED PROCTOR DENSITY (ASTM D-1557). ALL TOPSOIL AND SUBGRADE 6" BELOW TOPSOIL SHALL BE COMPACTED TO 80% STANDARD PROCTOR DENSITY (ASTM D-698)
- SPREAD SCREENED TOPSOIL ON ALL DISTURBED AREAS AND PROPOSED GREEN AREAS. TOPSOIL SHALL COMPLY WITH REQUIREMENTS OF ARTICLE 1081.05.

**UTILITY NOTES**

- UNDERGROUND WORK SHALL INCLUDE TRENCHING, DISPOSAL OF EXCESS MATERIAL, DEWATERING, INSTALLATION OF PIPE, CASTINGS, STRUCTURES, BACKFILLING OF TRENCHES AND COMPACTION, AND TESTING AS SHOWN ON THE CONSTRUCTION PLANS. FITTINGS AND ACCESSORIES NECESSARY TO COMPLETE THE WORK MAY NOT BE SPECIFIED BUT SHALL BE CONSIDERED AS INCLUDED TO THE COST OF THE CONTRACT. ALL SEWER SHALL BE INSTALLED USING A LASER AND BEGIN AT THE DOWNSTREAM END.
- MACHINE CORE ALL CONNECTIONS TO EXISTING STRUCTURES USING A CORE DRILL. HAMMERING OR SAWING OF STRUCTURES WILL NOT BE ALLOWED.
- ALL CONNECTIONS TO EXISTING OR DISSIMILAR STORM/SANITARY LINES SHALL BE DONE WITH STAINLESS STEEL NON-SHEAR COUPLINGS.
- ALL CONNECTIONS TO EXISTING SANITARY MANHOLES SHALL BE INSTALLED WITH A NEOPRENE BOOT SECURED WITH DOUBLE STAINLESS STEEL STRAPS MEETING THE REQUIREMENTS OF ASTM C-923.
- ALL CONNECTIONS TO EXISTING OR DISSIMILAR STORM/SANITARY LINES SHALL BE DONE WITH STAINLESS STEEL NON-SHEAR COUPLINGS.

**STATE STANDARDS:**

280001-07	TEMPORARY EROSION CONTROL SYSTEMS
442201-03	CLASS C AND D PATCHES
602601-06	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602702-02	MANHOLE STEPS
604001-05	FRAMES AND LIDS - TYPE 1
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES

**DISTRICT ONE STANDARD DETAILS**

BM-20	PRUNING FOR SAFETY AND EQUIPMENT CLEARANCE
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC-14	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)

**WORK WITHIN COMED ROW NOTES**

**EASEMENT REQUIREMENTS**

- THE PROPERTY MAY BE USED ONLY FOR THE STATED PURPOSE OF A SANITARY SEWER REPLACEMENT, AS SUBMITTED IN THE PLANS ENTITLED, SUNSET DRIVE SANITARY SEWER REPLACEMENT, LAKE COUNTY PUBLIC WORKS, DATED 2/1/2021. ANY REVISION TO THE PLANS MUST BE SUBMITTED TO ESD FOR REVIEW AND APPROVAL.
- GRANTEE WILL BE HELD RESPONSIBLE FOR FUTURE MAINTENANCE OF THE SANITARY SEWER. COMED ANTICIPATES THAT ANY LEAKS, SPILLS, OVERFLOW, OR SIMILAR WILL BE ADDRESSED BY THE GRANTEE AT THEIR EXPENSE, INCLUDING ANY ADVERSE IMPACTS TO THE SURROUNDING COMED ROW.
- IN THE EVENT OF A LEAK/SPILL ON COMED PROPERTY, GRANTEE MUST NOTIFY COMED WITHIN 24 HOURS AND PROVIDE A WRITTEN REPORT WITHIN 5 BUSINESS DAYS.
- GRANTEE IS NOT PERMITTED TO CHANGE THE GRADING OF THE PROPERTY WITHOUT PRIOR AUTHORIZATION FROM ESD. THIS INCLUDES ACTIVITIES OF ADDING GRAVEL OR OTHER FILL-IN ACTIVITIES TO THE SURFACE OF COMED PROPERTY.
- GRANTEE IS RESPONSIBLE FOR ALL POTENTIAL DRAINAGE IMPACTS WITHIN THE EASEMENT AREA FOR THE DURATION OF THE EASEMENT.
- GRANTEE SHALL PROVIDE A KMZ FILE OF THE NEWLY INSTALLED SANITARY SEWER AND MANHOLES ON COMED OWNED PROPERTY.

**CONSTRUCTION PROJECT REQUIREMENTS**

- ALL CONSTRUCTION EQUIPMENT MUST BE FREE OF LEAKS AND ANY LEAKS OF OILS OR CHEMICALS THAT OCCUR MUST BE CLEANED UP AND REPORTED TO THE APPROPRIATE AGENCIES AS NEEDED.
- DAILY EQUIPMENT INSPECTIONS MUST BE CONDUCTED TO VERIFY PROPER WORKING CONDITION BEFORE EQUIPMENT USE ON COMED PROPERTY. WRITTEN RECORDS OF EQUIPMENT INSPECTIONS MUST BE AVAILABLE TO ESD UPON REQUEST.
- NO DEMOLITION, CONSTRUCTION, OR EQUIPMENT STAGING IS PERMITTED ON COMED-OWNED PROPERTY POST CONSTRUCTION ACTIVITIES.
- CONCRETE WASHOUT ACTIVITIES ARE NOT PERMITTED ON COMED PROPERTY.
- A SPILL KIT OF APPROPRIATE SIZE MUST BE PRESENT AND ACCESSIBLE AT ALL TIMES DURING CONSTRUCTION ACTIVITIES ON COMED PROPERTY.
- IN THE EVENT THAT DRAIN TILES ARE DAMAGED, GRANTEE SHALL REPAIR OR REPLACE, AS APPROPRIATE, THE DAMAGED DRAIN TILES AND ACCEPT RESPONSIBILITY FOR ANY ADVERSE DRAINAGE ISSUES AND RELATED DAMAGES THAT MAY ARISE.

**EXCAVATION, SPOILS AND MATERIALS**

- IF THE PROJECT REQUIRES REMOVAL OF SOIL OR WASTE FROM COMED PROPERTY, THIS MUST BE MANAGED BY A COMED ENVIRONMENTAL CONTRACTOR OF CHOICE (ECOC) AND TAKEN TO A COMED APPROVED DISPOSAL FACILITY. CLEAN CONSTRUCTION DEMOLITION DEBRIS (CDD) DISPOSAL IS NOT PERMITTED.
- HYDROVAC SPOILS ARE NOT PERMITTED TO BE REUSED ON COMED PROPERTY AND MUST BE DISPOSED IN ACCORDANCE WITH THE ABOVE REQUIREMENT.
- GRADING OF EXCESS SOIL IS NOT PERMITTED ON COMED PROPERTY.
- IF THE PROJECT REQUIRES ADDITIONAL SOIL AND GRAVEL, ONLY CERTIFIED 'CLEAN' FILL SHALL BE USED. THE SOURCE OF THE CLEAN FILL MUST BE APPROVED BY ESD. FOR APPROVAL, THE FOLLOWING CONDITIONS MUST BE MET.
  - CERTIFICATE OF VIRGIN MATERIAL MUST BE OBTAINED FROM THE SOURCE OF ANY AGGREGATE MATERIAL.
  - SOILS MUST BE CERTIFIED CLEAN BY THE SOURCE AND/OR ANALYZED EVERY 500 CUBIC YARDS FOR TOTAL CONCENTRATIONS OF THE COMPREHENSIVE SUITE OF PARAMETERS LISTED IN TITLE 35 ILLINOIS ADMINISTRATIVE CODE (35 IAC) PART 740, SITE REMEDIATION PROGRAM (SRP) APPENDIX A, TARGET COMPOUND LIST (TCL), AND VERIFIED TO MEET THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY'S (IEPA'S) CLEAN CONSTRUCTION OR DEMOLITION DEBRIS FILL OPERATIONS AND UNCONTAMINATED SOIL FILL OPERATIONS STANDARDS (35 IAC PART 1100), MAXIMUM ALLOWABLE CONCENTRATIONS (MACS).
- ALL SOIL MUST BE MANAGED IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL GUIDELINES.
- NO CONSTRUCTION DEBRIS, SOIL, FILL MATERIAL, OR SPOILS MAY BE STORED ON COMED PROPERTY.
- ENVIRONMENTAL SAMPLING IS NOT PERMITTED ON COMED PROPERTY WITHOUT WRITTEN APPROVAL AND GUIDANCE BY ESD. ENVIRONMENTAL REGULATIONS AND PERMITS.
- ALL APPLICABLE REGULATIONS MUST BE FOLLOWED, INCLUDING IMPLEMENTATION OF A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND A SOIL EROSION AND SEDIMENT CONTROL PLAN (SESC) TO MINIMIZE SEDIMENT POLLUTION IN STORM WATER RUNOFF AS WELL AS ANY OTHER REQUIRED PRACTICES. THIS SESC MUST BE SUBMITTED TO ESD.
- ALL APPLICABLE ENVIRONMENTAL PERMITS MUST BE OBTAINED, INCLUDING WETLANDS AND NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORMWATER PERMITS AS REQUIRED UNDER THE CLEAN WATER ACT, AND PERMITS FROM THE IEPA AND THE LAKE COUNTY STORMWATER MANAGEMENT COMMISSION, AND ANY OTHER APPLICABLE ENVIRONMENTAL PERMITS.
- GRANTEE MUST SUBMIT COPIES OF ANY REQUIRED ENVIRONMENTAL PERMITS AND PLANS TO ESD PRIOR TO PROJECT START.
- REQUIREMENTS OF ALL PERMITS MUST BE FOLLOWED WHICH COULD INCLUDE SITE MONITORING, REPORTING AND RESTORATION EXTENDING WELL BEYOND THE CONSTRUCTION TIME PERIOD.
- GRANTEE MUST FOLLOW ALL APPLICABLE ENVIRONMENTAL LAWS AND REGULATIONS INCLUDING THOSE NOT SPECIFICALLY MENTIONED HEREIN.

**WETLANDS REQUIREMENTS**

- ACCORDING TO A REVIEW OF ESD RESOURCES AND INFORMATION PROVIDED BY THE GRANTEE, WETLANDS WITHIN COMED PROPERTY ARE NOT PRESENT AT THE PROJECT SITE AND WILL NOT BE IMPACTED BY THE SANITARY SEWER REPLACEMENT AND RETIREMENT ACTIVITIES.
- IN THE EVENT THAT WETLANDS ARE IDENTIFIED ON COMED PROPERTY, ESD REQUIRES THAT ENVIRONMENTAL OVERSIGHT OF THE PROJECT AND INSPECTIONS ARE CONDUCTED, AT THE GRANTEE'S EXPENSE, BY A CONTRACTOR THAT IS APPROVED BY ESD AFTER REVIEW OF QUALIFICATIONS. WRITTEN RECORDS OF ENVIRONMENTAL INSPECTIONS MUST BE AVAILABLE TO ESD UPON REQUEST.
- IN THE EVENT THAT WETLANDS ARE IDENTIFIED ON COMED PROPERTY, GRANTEE MUST FOLLOW ALL FEDERAL, STATE, AND LOCAL WETLANDS REQUIREMENTS, INCLUDING UNITED STATES ARMY CORPS OF ENGINEERS AND LAKE COUNTY REGULATIONS AND GUIDELINES, AS APPLICABLE.

**CONDITION OF PROPERTY**

- GRANTEE MUST PROVIDE DOCUMENTATION OF CURRENT PROPERTY CONDITIONS BEFORE IMPROVEMENTS ARE STARTED (E.G. PHASE I, TOPOGRAPHIC MAPS, SURVEYS, PHOTOGRAPHS).
- ANY DAMAGE TO COMED'S PROPERTY CAUSED BY THE GRANTEE WILL BE REPAIRED AT THE GRANTEE'S EXPENSE.
- GRANTEE MUST PROVIDE FULL RESTORATION OF THE SITE TO THE ORIGINAL CONDITION WHEN THE PROJECT IS COMPLETE, INCLUDING SEEDING AS NECESSARY.
- GRANTEE MUST PROVIDE DOCUMENTATION (INCLUDING PHOTOGRAPHS) THAT THE PROPERTY IS RETURNED TO ITS ORIGINAL CONDITION AFTER COMPLETION OF THE PROJECT AND RESTORATION.

SHOULD COMED REQUEST ADDITIONAL INFORMATION IN THE FUTURE, GRANTEE MUST BE PREPARED TO PROVIDE THE FOLLOWING INFORMATION TO COMED (PLEASE REFERENCE PROJECT CODE SR 5100995 IN ANY COMMUNICATIONS WITH COMED):

- A LETTER THAT SUMMARIZES THE RESULTS OF THEIR ANALYSIS OF WHAT TYPES OF ENVIRONMENTAL PERMITS, PLANS, AND CONTROLS ARE REQUIRED (E.G. WETLANDS, SWPPP, SESP, AND ENDANGERED SPECIES IMPACTS).
- A COPY OF THE ENVIRONMENTAL PERMIT APPLICATIONS FOR THE PROJECT.
- A COPY OF ANY ENVIRONMENTAL REPORTS REQUIRED BY THE PERMITS.
- COPIES OF CERTIFICATES OF CLEAN FILL.
- INSPECTION RECORDS

SANITARY SEWERS	MODEL/SPECIFICATION	STANDARDS/REQUIREMENTS
PIPE MATERIAL	PVC SDR 26 PVC PS 115	PIPE ASTM D-3034 PIPE ASTM F-679
WATER MAIN QUALITY	PVC SDR 26 PVC C900 DR18	PIPE ASTM D-2241 PIPE AWWA C900
FORCE MAIN PIPE	PVC C900 DR18	PIPE AWWA C900
ADJUSTMENT RINGS	CRETEX PRO-RING OR APPROVED EQUAL	2" MINIMUM, 8" MAXIMUM
PIPE BEDDING MATERIAL	CA-11	
TRENCH BACKFILL	CA7/CA-11	
CHIMNEY SEAL	CRETEX	ASTM C-923
MANHOLE CONNECTIONS		ASTM C-923
JOINT WRAP	MAC WRAP	ASTM C-877 TYPE II
FRAME & GRATE/LID	PAVED AREAS GRASS AREAS	CLOSED LID: NEENAH R-1772 OR EAST JORDAN 1022 FRAME (OR PER PLAN) CLOSED LID: NEENAH R-1772 OR EAST JORDAN 1022 FRAME (OR PER PLAN)

STORM SEWERS	MODEL/SPECIFICATION	STANDARDS/REQUIREMENTS
PIPE MATERIAL	PVC SDR 26	PIPE ASTM D-3034
FRAME & GRATE/LID		OPEN LID: REUSE EXISTING CLOSED LID: REUSE EXISTING
ADJUSTMENT RINGS	CONCRETE	4" MINIMUM, 8" MAXIMUM
PIPE BEDDING MATERIAL	CA-11	
TRENCH BACKFILL	CA7/CA-11	

TESTING REQUIREMENTS	
SANITARY SEWER	ALL SANITARY SEWER SHALL BE TESTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS. ALL RIGID SANITARY SEWER PIPE SHALL BE TESTED BY EITHER METHOD A B OR C AS OUTLINED IN SECTION 311-12. ALL FLEXIBLE SANITARY SEWER PIPE SHALL BE TESTED BY METHOD D AND EITHER METHOD A B OR C. ALL SANITARY SEWER MUST BE TESTED BY METHOD E. THE CONTRACTOR SHALL PROVIDE THE ENGINEER A COPY OF THE VIDEO ON A DIGITAL VIDEO DISC. THE VIDEO MUST BE IN COLOR AND PROCEED NO FASTER THAN 1 FOOT PER SECOND.
SEWER WATER MAIN CROSSINGS	ALL SEWERS THAT CROSS OR RUN PARALLEL TO WATER MAINS SUBJECT TO IEPA REQUIREMENTS FOR WATER MAIN QUALITY PIPE MUST BE PRESSURE TESTED ACCORDING TO 41-2.14 OF THE STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS
SANITARY MANHOLES	ALL SANITARY MANHOLES SHALL BE TESTED BY EITHER ASTM C-969 OR ASTM C-1244

C:\WORK\5600.004.LAKE COUNTY PUBLIC WORKS\5600.004.CSWS\SUNSET.DRW 2/21/2022 8:37 AM

**GHA GEWALT HAMILTON ASSOCIATES, INC.**  
 625 Forest Edge Drive ■ Vernon Hills, IL. 60061  
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**GENERAL NOTES, 1 OF 2**  
**SUNSET DRIVE SANITARY SEWER REPLACEMENT**  
**LAKE COUNTY PUBLIC WORKS DEPARTMENT**  
**LAKE COUNTY, ILLINOIS**

NO.	BY	DATE	REVISION

FILE: 5600.004-DT1.dwg	
DRAWN BY: WR	GHA PROJECT #
DATE: 2/21/22	5600.004
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DATE: 2/21/22	N.T.S.

SHEET NUMBER:  
**2**  
 OF 12 SHEETS



**STORMWATER MANAGEMENT COMMISSION**

**TYPICAL CONSTRUCTION SEQUENCING**

- 1.) Installation of soil erosion and sediment control SE/SC measures
    - a.) Selective vegetation removal for silt fence installation
    - b.) Silt fence installation
    - c.) Construction fencing around areas not to be disturbed
    - d.) Stabilized construction entrance
  - 2.) Tree removal where necessary (clear & grub)
  - 3.) Construct sediment trapping devices (sediment traps, basins...)
  - 4.) Construct detention facilities and outlet control structure with restrictor & temporary perforated riser
  - 5.) Strip topsoil, stockpile topsoil and grade site
  - 6.) Temporarily stabilize topsoil stockpiles (seed and silt fence around toe of slope)
  - 7.) Install storm sewer, sanitary sewer, water and associated inlet & outlet protection
  - 8.) Permanently stabilize detention basins with seed and erosion control blanket
  - 9.) Temporarily stabilize all areas including lots that have reached temporary grade
  - 10.) Install roadways
  - 11.) Permanently stabilize all outlet areas
  - 12.) Install structures and grade individual lots
  - 13.) Permanently stabilize lots
  - 14.) Remove all temporary SE/SC measures after the site is stabilized with vegetation
- \* Soil erosion and sediment control maintenance must occur every two weeks and after every 1/2 or greater rainfall event

**LAKE COUNTY STORMWATER MANAGEMENT COMMISSION  
SOIL EROSION AND SEDIMENT CONTROL CONSTRUCTION NOTES**

- A. SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.
- B. FOR THOSE DEVELOPMENTS THAT REQUIRE A DESIGNATED EROSION CONTROL INSPECTOR (DEC), INSPECTIONS AND DOCUMENTATION SHALL BE PERFORMED, AT A MINIMUM:

UPON COMPLETION OF SEDIMENT AND RUNOFF CONTROL MEASURES (INCLUDING PERIMETER CONTROLS AND DIVERSIONS), PRIOR TO PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING.

AFTER EVERY SEVEN (7) CALENDAR DAYS OR STORM EVENT WITH GREATER THAN 0.5 INCH OF RAINFALL OR LIQUID EQUIVALENT PRECIPITATION.

- C. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. IF STRIPPING, CLEARING, GRADING, OR LANDSCAPING ARE TO BE DONE IN PHASES, THE PERMITTEE SHALL PLAN FOR APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL MEASURES.
- D. A STABILIZED MAT OF CRUSHED STONE MEETING IDOT GRADATION CA-1 UNDERLAIN WITH FILTER FABRIC AND IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL, OR OTHER APPROPRIATE MEASURE(S) AS APPROVED BY THE ENFORCEMENT OFFICER, SHALL BE INSTALLED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE. SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
- E. TEMPORARY DIVERSIONS SHALL BE CONSTRUCTED AS NECESSARY TO DIRECT ALL RUNOFF FROM HYDROLOGICALLY DISTURBED AREAS TO AN APPROPRIATE SEDIMENT TRAP OR BASIN.
- F. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) CALENDAR DAYS FOLLOWING THE END OF ACTIVE HYDROLOGIC DISTURBANCE OR REDISTURBANCE.
- G. ALL STOCKPILES SHALL HAVE APPROPRIATE MEASURES TO PREVENT EROSION. STOCKPILES SHALL NOT BE PLACED IN FLOOD PRONE AREAS OR WETLANDS AND DESIGNATED BUFFERS.
- H. SLOPES STEEPER THAN 3H:1V SHALL BE STABILIZED WITH APPROPRIATE MEASURES AS APPROVED BY THE ENFORCEMENT OFFICER.
- I. APPROPRIATE EROSION CONTROL BLANKET SHALL BE INSTALLED ON ALL INTERIOR DETENTION BASIN SIDE SLOPES BETWEEN THE NORMAL WATER LEVEL AND HIGH WATER LEVEL.
- J. STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.
- K. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. DISCHARGES SHALL BE ROUTED THROUGH AN APPROVED ANIONIC POLYMER DEWATERING SYSTEM OR A SIMILAR MEASURE AS APPROVED BY THE ENFORCEMENT OFFICER. DEWATERING SYSTEMS SHOULD BE INSPECTED DAILY DURING OPERATIONAL PERIODS. THE ENFORCEMENT OFFICER, OR APPROVED REPRESENTATIVE, MUST BE PRESENT AT THE COMMENCEMENT OF DEWATERING ACTIVITIES.
- L. IF INSTALLED SOIL EROSION AND SEDIMENT CONTROL MEASURES DO NOT MINIMIZE SEDIMENT LEAVING THE DEVELOPMENT SITE, ADDITIONAL MEASURES SUCH AS ANIONIC POLYMERS OR FILTRATION SYSTEMS MAY BE REQUIRED BY THE ENFORCEMENT OFFICER.
- M. ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS NEEDED. THE PROPERTY OWNER SHALL BE ULTIMATELY RESPONSIBLE FOR MAINTENANCE AND REPAIR.
- N. ALL TEMPORARY SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.
- O. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER, ENFORCEMENT OFFICER, OR OTHER GOVERNING AGENCY.

**IN-STREAM WORKPLAN**

1. AN IN-STREAM WORKPLAN WILL BE REQUIRED TO BE APPROVED BY THE ENGINEER AND THE LAKE COUNTY STORM WATER MANAGEMENT COMMISSION (SMC) PRIOR TO ANY WORK WITHIN THE STREAM. AT A MINIMUM, THE WORKPLAN SHALL INCLUDE THE FOLLOWING INFORMATION:

- \* SUMMARY OF ANY DEWATERING INFORMATION
- \* SUMMARY OF COFFERDAM CONSTRUCTION, MAINTENANCE, AND REMOVAL DURING CONSTRUCTION
- \* TIMELINE OF WORK WITHIN THE STREAM
- \* SUMMARY OF MATERIALS AND EQUIPMENT USED DURING IN-STREAM OPERATIONS

ALL COSTS ASSOCIATED WITH PREPARING THE IN-STREAM WORKPLAN SHALL BE INCIDENTAL TO THE CONTRACT.

**EROSION CONTROL NOTES**

1. AT A MINIMUM, THE CONTRACTOR SHALL INSTALL AND MAINTAIN SOIL EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH IN THE LATEST EDITION OF THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY'S URBAN MANUAL.
2. 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. 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.
3. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFFSITE SEDIMENT TRACKING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ANY ROAD OF MATERIAL THAT IS FROM THE PROJECT. THIS WILL BE DONE AT THE CLOSE OF EACH DAY OF WORK OR MORE FREQUENTLY AS FIELD CONDITIONS WARRANT.
4. ALL STORM WATER STRUCTURES WITH OPEN LIDS SHALL BE PROTECTED WITH INLET FILTER BASKETS. DURING CONSTRUCTION, SEDIMENT SHALL BE REMOVED AS NEEDED, AND BASKETS SHALL BE REPAIRED OR REPLACED AS NEEDED.
5. AFTER ACHIEVING PERMANENT VEGETATION, ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE REMOVED, AND THE DRAINAGE STRUCTURES SHALL BE CLEANED.
6. THE CONTRACTOR SHALL KEEP A WATER SOURCE AT THEIR DISPOSAL FOR THE PURPOSE OF WATERING DOWN SOIL ON SITE AND ADJACENT ROADWAYS WHICH OTHERWISE MAY BECOME AIRBORNE.
7. THE CONTRACTOR SHALL STABILIZE ALL IDLE, DISTURBED AREAS WITHIN SEVEN DAYS OF CESSATION OF THE CONSTRUCTION ACTIVITIES IN THAT AREA.
8. THE CONTRACTOR IS EXPRESSLY ADVISED NOT TO DISTURB AREAS WHICH ARE OUTSIDE THOSE NECESSARY TO PROVIDE THE IMPROVEMENTS AS CALLED FOR IN THE PLANS.
9. ALL EROSION CONTROL MEASURES SHALL BE REPLACED IF DAMAGED OR MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT.
10. ALL BYPASS CHANNELS, MUST BE CONSTRUCTED SO THAT CHANNEL FLOWS WILL NOT CAUSE EROSION OF EXCAVATED MATERIAL. IN EACH CASE A SEDIMENTATION BASIN MUST BE CONSTRUCTED SO AS TO ALLOW THE SEDIMENT TO SETTLE PRIOR TO THE DOWNSTREAM OUTLET OF THE PROJECT AREA.
11. PUMPS MAY BE USED AS BYPASS DEVICES, BUT IN NO CASE WILL THE WATER BE DIVERTED OUTSIDE THE PROJECT LIMIT. ALL PUMPED WATER SHALL BE FREE OF SILT. PUMPING MAY REQUIRE THE USE OF A SEDIMENT CONTAINMENT FILTER BAG AND OTHER SUPPLEMENTAL SEDIMENT CONTROL MEASURES.
12. CONCRETE WASHOUT FACILITIES SHALL BE MADE AVAILABLE IF NEEDED, AND PROPERLY MAINTAINED THROUGHOUT THE PROJECT.
13. PROPERLY MANAGE ALL MATERIAL STORAGE AREAS, PORTABLE TOILETS, AND EQUIPMENT FUELING, CLEANING, AND MAINTENANCE AREAS TO ENSURE THESE AREAS ARE FREE OF SPILLS, LEAKS, OR OTHER POTENTIAL POLLUTANTS.
14. WASTE, CONSTRUCTION DEBRIS, AND BUILDING MATERIALS SHALL BE COLLECTED AND PLACED IN APPROVED RECEPTACLES.

**LAKE COUNTY PUBLIC WORKS NOTES FOR SANITARY SEWER IMPROVEMENTS**

**GENERAL**

1. ALL SEWER AND WATER MAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND CONSTRUCTION DETAILS AND ORDINANCES OF LAKE COUNTY PUBLIC WORKS (LCPW), ILLINOIS RECOMMENDED STANDARDS FOR SEWAGE WORKS, LATEST EDITION AND THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN ILLINOIS, LATEST EDITION, AND THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS, LATEST EDITION.
2. CONTRACTOR SHALL NOTIFY LCPW AT LEAST TWO (2) WORKING DAYS (48 HOURS) PRIOR TO THE START OF WATER AND/OR SEWER CONSTRUCTION AT 847-377-7145.
3. LCPW SHALL BE GRANTED ACCESS TO ALL PARTS OF THE CONSTRUCTION SITE AND SHALL HAVE THE AUTHORITY TO INSPECT, APPROVE, AND/OR REJECT ALL SANITARY SEWER AND SANITARY SERVICE IMPROVEMENTS.
4. ALL SANITARY SEWER SHALL BE INSPECTED AND APPROVED BY LCPW PRIOR TO BACKFILL.

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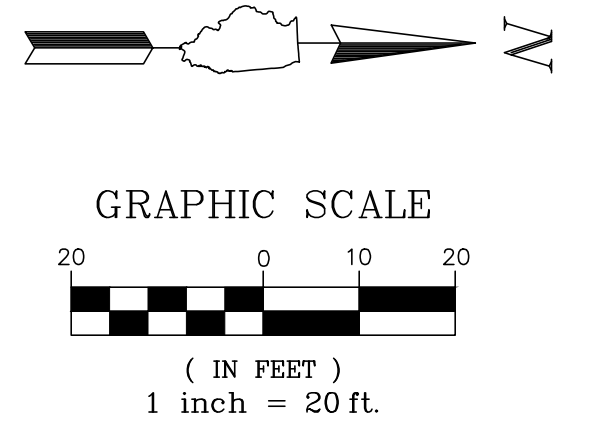
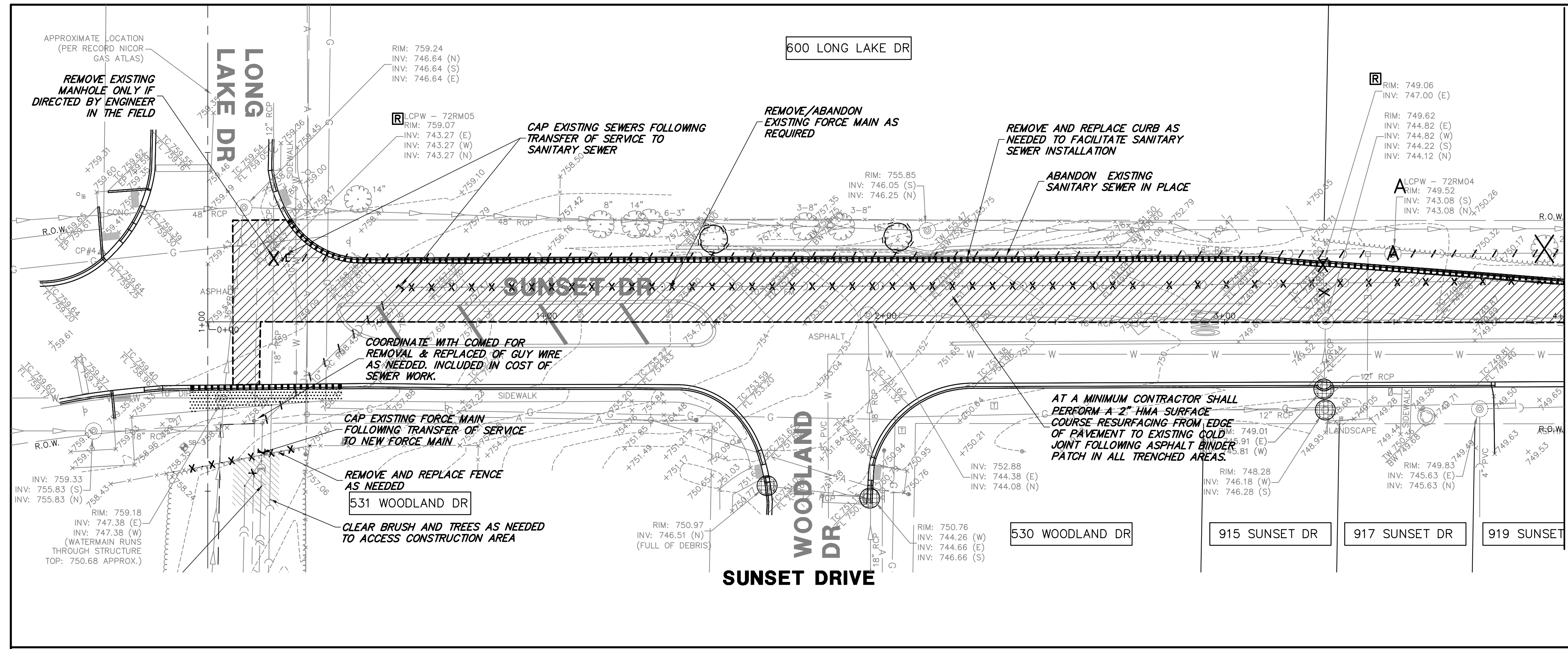
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**GENERAL NOTES, 2 OF 2**  
**SUNSET DRIVE SANITARY SEWER REPLACEMENT**  
**LAKE COUNTY PUBLIC WORKS DEPARTMENT**  
**LAKE COUNTY, ILLINOIS**

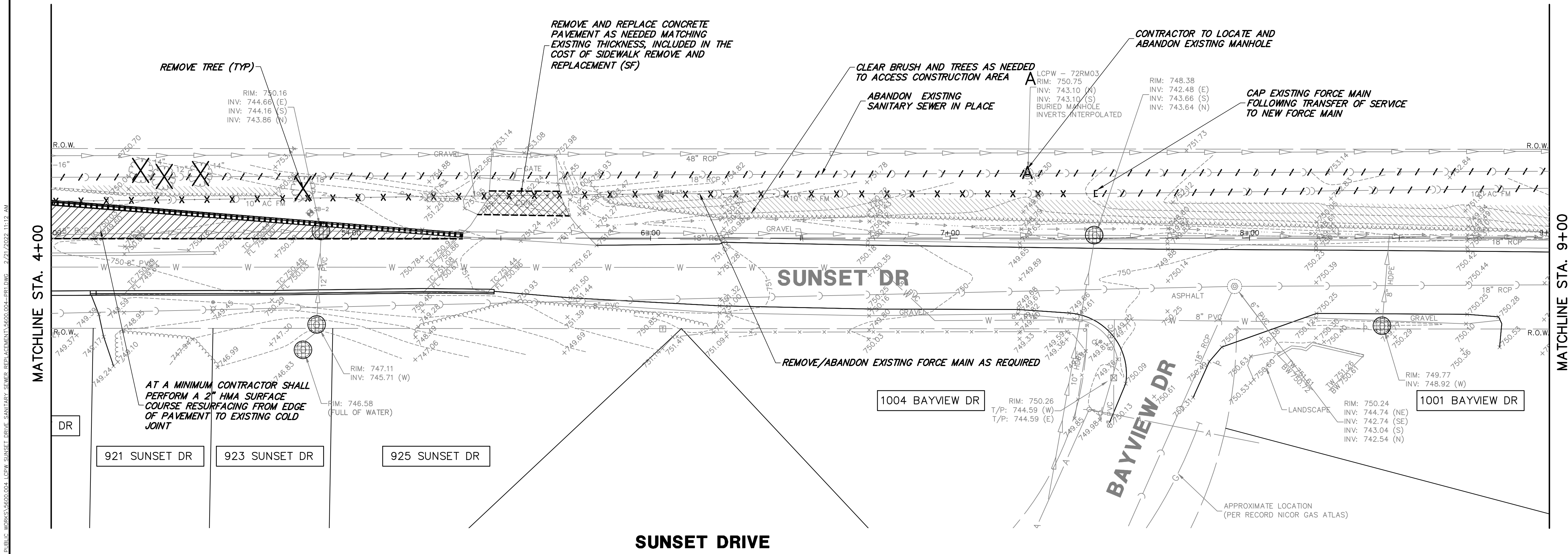
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DATE: 2/21/22			





- DEMOLITION NOTES:**
1. PRIOR TO STARTING ANY CONSTRUCTION, PROVIDE SOIL EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE PLANS.
  2. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING STRUCTURES TO REMAIN. ANY DAMAGED STRUCTURES DUE TO THE CONTRACTORS NEGLIGENCE SHALL BE REMOVED AND REPLACED AT THE EXPENSE OF THE CONTRACTOR TO THE SATISFACTION OF THE COUNTY.
  3. THE CONTRACTOR SHALL REMOVE ALL SAWCUT SLURRY PROMPTLY TO PREVENT TRACKING ON TOP OF SURFACES TO REMAIN. ANY SLURRY TRACKED OR LEFT ON SURFACES TO REMAIN SHALL BE THOROUGHLY CLEANED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE COUNTY.
  4. ALL EQUIPMENT USED ON-SITE IS RECOMMENDED TO BE EQUIPPED WITH RUBBER TIRES. ANY DAMAGE TO THE EXISTING ROAD TO REMAIN DUE TO CONTRACTORS NEGLIGENCE SHALL BE REMOVED AND REPLACED AT THE EXPENSE OF THE CONTRACTOR TO THE SATISFACTION OF THE COUNTY.
  5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE EXISTING FORCE MAIN WITHIN THE PROJECT LIMITS DURING CONSTRUCTION, COMPROMISING THE FLOW OF THE FORCE MAIN DURING CONSTRUCTION WILL NOT BE PERMITTED.
  6. NOT ALL TREE REMOVALS ARE SHOWN ON THE DRAWINGS. CONTRACTOR TO REMOVE TREES AS MARKED OUT IN THE FIELD BY THE ENGINEER.
- \* UNLESS OTHERWISE INDICATED ON THE DRAWINGS IMPROVEMENTS SHOWN ARE FOR COORDINATION AND PERMITTING PURPOSES.
- \* THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING RESTORATION LIMITS OF WORK BASED ON DISTURBANCE.

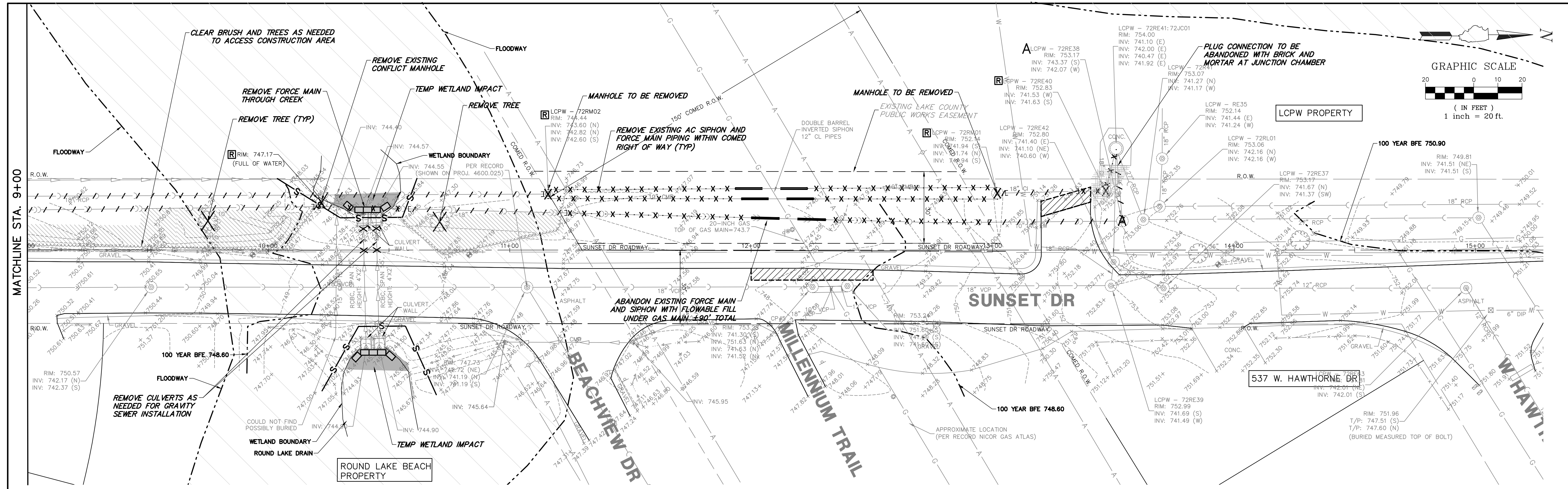


**DEMOLITION/EROSION LEGEND**

- A STRUCTURE TO BE ABANDONED
- ⊗ STRUCTURE REMOVAL
- X · X UTILITY TO BE REMOVED
- / / UTILITY TO BE ABANDONED
- TREE ROOT PRUNING
- ⊗ TREE/SHRUB REMOVAL
- ABANDON UTILITY WITH CLSM
- ⊗ INLET FILTERS-BASKET
- S SILT FENCE INSTALLATION
- ⊗ TEMPORARY TREE FENCE
- TEMPORARY COFFERDAM
- TREE ROOT PRUNING
- PAVEMENT PATCH
- PAVEMENT SAWCUT
- CLEARING AND GRUBBING
- DRIVEWAY PAVEMENT REMOVAL
- EROSION CONTROL BLANKET 4" TOPSOIL FURNISH AND PLACE SEEDING, CLASS 1A
- SIDEWALK REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION





TEMPORARY WETLAND IMPACT: 0.008724 AC  
 TEMPORARY FLOODPLAIN IMPACT: 0.030991 AC

**WORK WITHIN A WATERWAY MUST MEET THE FOLLOWING (USACE) STANDARDS:**

1. WORK IN THE WATERWAY SHOULD BE TIMED TO TAKE PLACE DURING LOW OR NO-FLOW CONDITIONS. LOW FLOW CONDITIONS ARE FLOW AT OR BELOW THE NORMAL WATER ELEVATION.
2. THE PLAN WILL BE DESIGNED TO ALLOW FOR THE CONVEYANCE OF THE 2-YEAR PEAK FLOW PAST THE WORK AREA WITHOUT OVERTOPPING THE COFFERDAM. THE CORPS HAS THE DISCRETION TO REDUCE THIS REQUIREMENT IF DOCUMENTED BY THE APPLICANT TO BE INFEASIBLE OR UNNECESSARY.
3. WATER SHALL BE ISOLATED FROM THE IN-STREAM WORK AREA USING A COFFERDAM CONSTRUCTED OF NON-ERODIBLE MATERIALS (STEEL SHEETS, AQUA BARRIERS, RIP RAP AND GEOTEXTILE LINER, ETC.). EARTHEN COFFERDAMS ARE NOT PERMISSIBLE.
4. THE COFFERDAM MUST BE CONSTRUCTED FROM THE UPLAND AREA AND NO EQUIPMENT MAY ENTER FLOWING WATER AT ANY TIME. IF THE INSTALLATION OF THE COFFERDAM CANNOT BE COMPLETED FROM SHORE AND ACCESS IS NEEDED TO REACH THE AREA TO BE COFFERED, OTHER MEASURES, SUCH AS THE CONSTRUCTION OF A CAUSEWAY, WILL BE NECESSARY TO ENSURE THAT EQUIPMENT DOES NOT ENTER THE WATER. ONCE THE COFFERDAM IS IN PLACE AND THE ISOLATED AREA IS DEWATERED, EQUIPMENT MAY ENTER THE COFFERED AREA TO PERFORM THE REQUIRED WORK.
5. IF BYPASS PUMPING IS NECESSARY, THE INTAKE HOSE SHALL BE PLACED ON A STABLE SURFACE OR FLOATED TO PREVENT SEDIMENT FROM ENTERING THE HOSE. THE BYPASS DISCHARGE SHALL BE PLACED ON A NON-ERODIBLE, ENERGY DISSIPATING SURFACE PRIOR TO REJOINING THE STREAM FLOW AND SHALL NOT CAUSE EROSION. FILTERING OF BYPASS WATER IS NOT NECESSARY UNLESS THE BYPASS WATER HAS BECOME SEDIMENT-LADEN AS A RESULT OF THE CURRENT CONSTRUCTION ACTIVITIES.
6. DURING DEWATERING OF THE COFFERED WORK AREA, ALL SEDIMENT-LADEN WATER MUST BE FILTERED TO REMOVE SEDIMENT. POSSIBLE OPTIONS FOR SEDIMENT REMOVAL INCLUDE BAFFLE SYSTEMS, ANIONIC POLYMERS SYSTEMS, DEWATERING BAGS, OR OTHER APPROPRIATE METHODS. WATER SHALL HAVE SEDIMENT REMOVED PRIOR TO BEING RE-INTRODUCED TO THE DOWNSTREAM WATERWAY. A STABILIZED CONVEYANCE FROM THE DEWATERING DEVICE TO THE WATERWAY MUST BE IDENTIFIED IN THE PLAN. DISCHARGE WATER IS CONSIDERED CLEAN IF IT DOES NOT RESULT IN A VISUALLY IDENTIFIABLE DEGRADATION OF WATER CLARITY.
7. THE AREA FROM THE TOE TO THE TOP OF THE SIDE SLOPE SHALL BE TEMPORARILY STABILIZED DURING CONSTRUCTION TO REDUCE THE POTENTIAL FOR EROSION. ALL AREAS DISTURBED DUE TO CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO PROPOSED CONDITIONS AND FULLY STABILIZED PRIOR TO ACCEPTING FLOWS.

**ADDITIONAL NOTES:**  
 COFFERDAMS SHALL BE CONSTRUCTED TO ALLOW THE PASSAGE OF HIGH FLOWS, MAINTAIN DOWNSTREAM FLOWS, AND WITHSTAND ANTICIPATED EROSION FORCES.  
 COFFERDAMS SHALL BE DESIGNED AND INSTALLED SO AS NOT TO IMPEDE THE MOVEMENT OF AQUATIC ORGANISMS.

**SUNSET DRIVE**

**DEMOLITION NOTES:**

1. PRIOR TO STARTING ANY CONSTRUCTION, PROVIDE SOIL EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE PLANS.
2. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING STRUCTURES TO REMAIN. ANY DAMAGED STRUCTURES DUE TO THE CONTRACTORS NEGLIGENCE SHALL BE REMOVED AND REPLACED AT THE EXPENSE OF THE CONTRACTOR TO THE SATISFACTION OF THE COUNTY.
3. THE CONTRACTOR SHALL REMOVE ALL SAWCUT SLURRY PROMPTLY TO PREVENT TRACKING ON TOP OF SURFACES TO REMAIN. ANY SLURRY TRACKED OR LEFT ON SURFACES TO REMAIN SHALL BE THOROUGHLY CLEANED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE COUNTY.
4. ALL EQUIPMENT USED ON-SITE IS RECOMMENDED TO BE EQUIPPED WITH RUBBER TIRES. ANY DAMAGE TO THE EXISTING ROAD TO REMAIN DUE TO CONTRACTORS NEGLIGENCE SHALL BE REMOVED AND REPLACED AT THE EXPENSE OF THE CONTRACTOR TO THE SATISFACTION OF THE COUNTY.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE EXISTING FORCE MAIN WITHIN THE PROJECT LIMITS DURING CONSTRUCTION. COMPROMISING THE FLOW OF THE FORCE MAIN DURING CONSTRUCTION WILL NOT BE PERMITTED.
6. NOT ALL TREE REMOVALS ARE SHOWN ON THE DRAWINGS. CONTRACTOR TO REMOVE TREES AS MARKED OUT IN THE FIELD BY THE ENGINEER.

**WORK WITHIN COMED RIGHT-OF-WAY:**

1. ALL WORK WITHIN THE COMED RIGHT-OF-WAY SHALL BE RESTORED IN KIND TO EXISTING CONDITIONS AT A MINIMUM.
2. THE CONTRACTOR SHALL NOT BE PERMITTED TO USE AREAS WITHIN THE COMED RIGHT-OF-WAY AS LAYDOWN OR ACCESS AREAS, OR AS STORAGE AREAS DURING CONSTRUCTION.
3. ALL EXCAVATION SHALL BE PERFORMED VIA OPEN CUT AND SHORING PER OSHA REQUIREMENTS AND STANDARDS.
4. WHEN WORKING IN THE VICINITY OF COMED ELECTRIC TRANSMISSION LINES, COMED REQUIRES A MINIMUM OF FIFTEEN (15) FEET WORKING CLEARANCE BETWEEN BOOMS, ARMS OR OTHER PARTS THAT CAN BE RAISED ON EQUIPMENT UTILIZED BY THE CONTRACTOR AND COMED'S EXISTING 138,000 VOLT ELECTRIC TRANSMISSION CONDUCTORS.

**DEMOLITION/EROSION LEGEND**

- A STRUCTURE TO BE ABANDONED
- X X STRUCTURE REMOVAL
- X X UTILITY TO BE REMOVED
- / / UTILITY TO BE ABANDONED
- TREE ROOT PRUNING
- X X TREE/SHRUB REMOVAL
- ABANDON UTILITY WITH CLSM
- INLET FILTERS-BASKET
- S SILT FENCE INSTALLATION
- TEMPORARY TREE FENCE
- TEMPORARY COFFERDAM
- TREE ROOT PRUNING
- PAVEMENT PATCH
- PAVEMENT SAWCUT
- CLEARING AND GRUBBING
- DRIVEWAY PAVEMENT REMOVAL
- EROSION CONTROL BLANKET 4" TOPSOIL FURNISH AND PLACE SEEDING, CLASS 1A
- SIDEWALK REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL

\* UNLESS OTHERWISE INDICATED ON THE DRAWINGS IMPROVEMENTS SHOWN ARE FOR COORDINATION AND PERMITTING PURPOSES.  
 \* THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING RESTORATION LIMITS OF WORK BASED ON DISTURBANCE.

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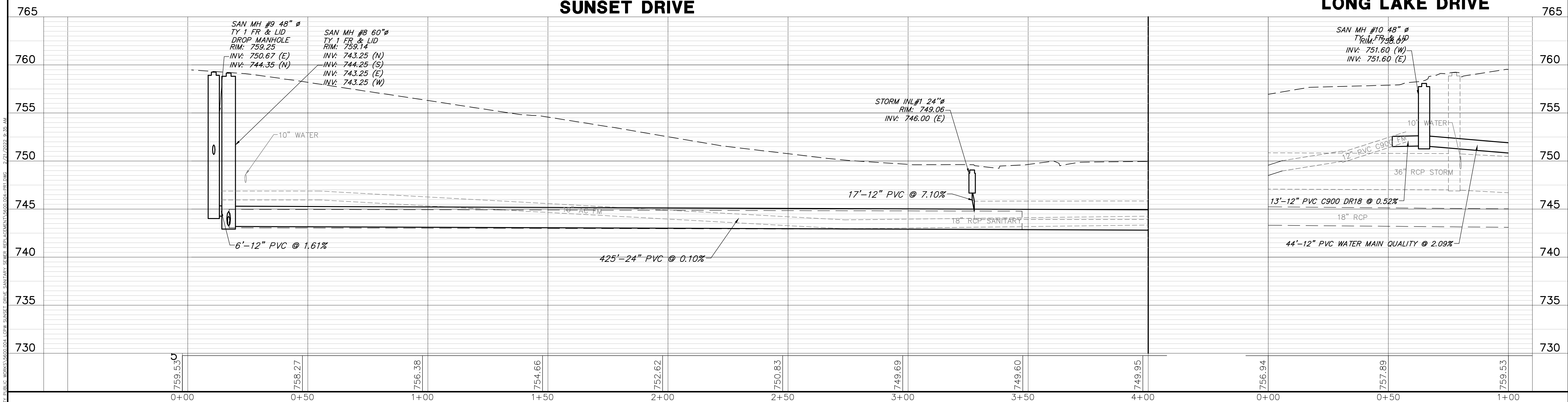
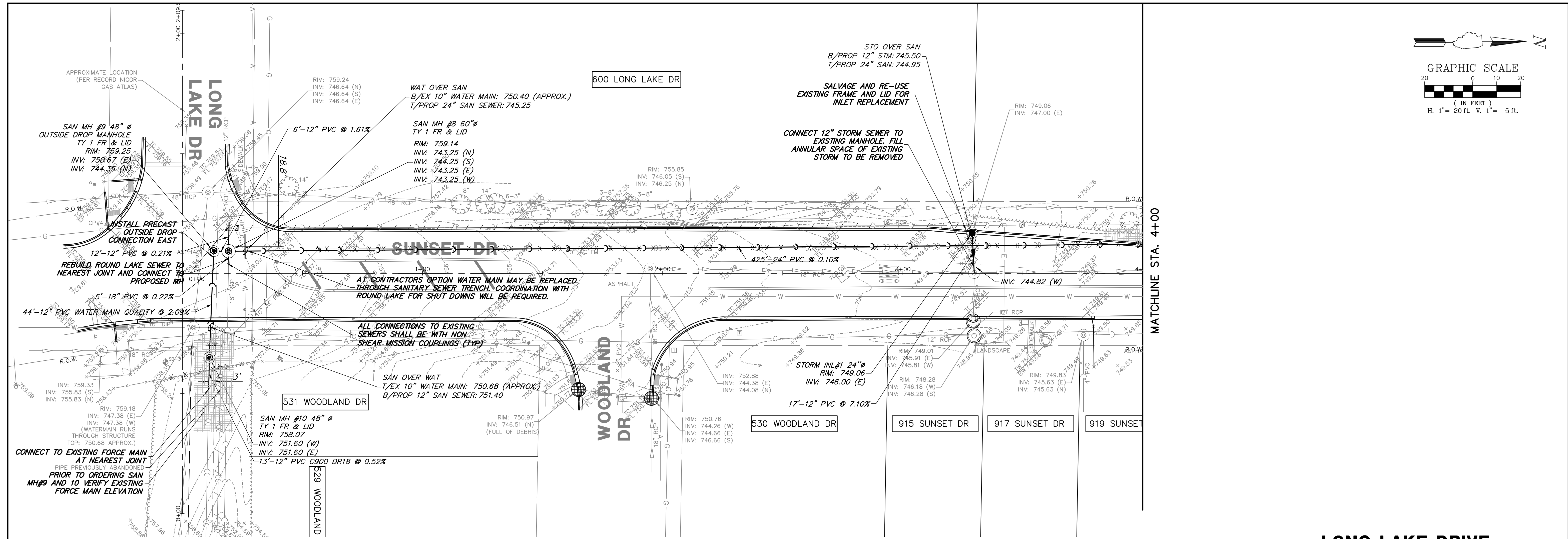
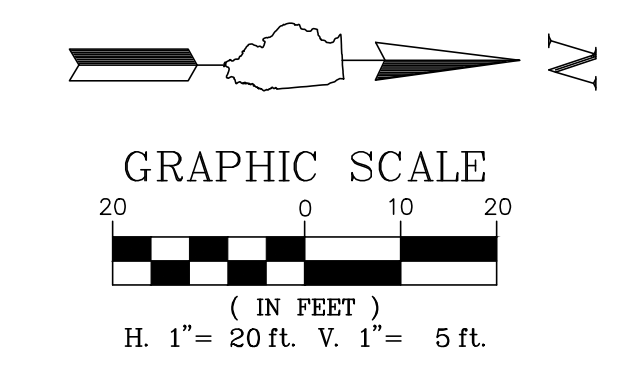
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**DEMO/EROSION CONTROL (STA 9+00 TO 15+00)**  
**SUNSET DRIVE SANITARY SEWER REPLACEMENT**  
**LAKE COUNTY PUBLIC WORKS DEPARTMENT**  
**LAKE COUNTY, ILLINOIS**

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**5**  
OF 12 SHEETS



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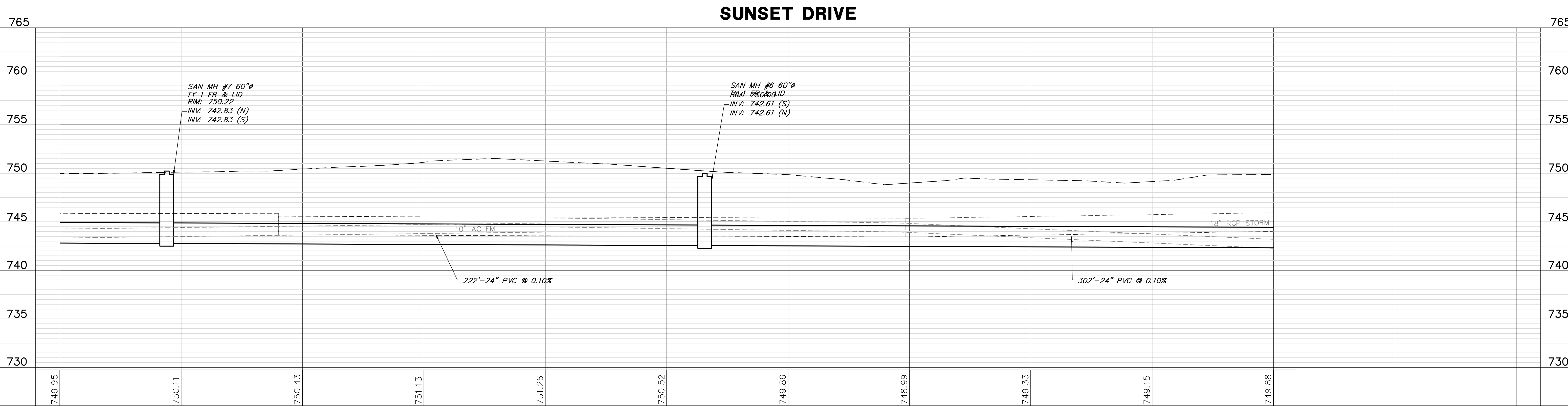
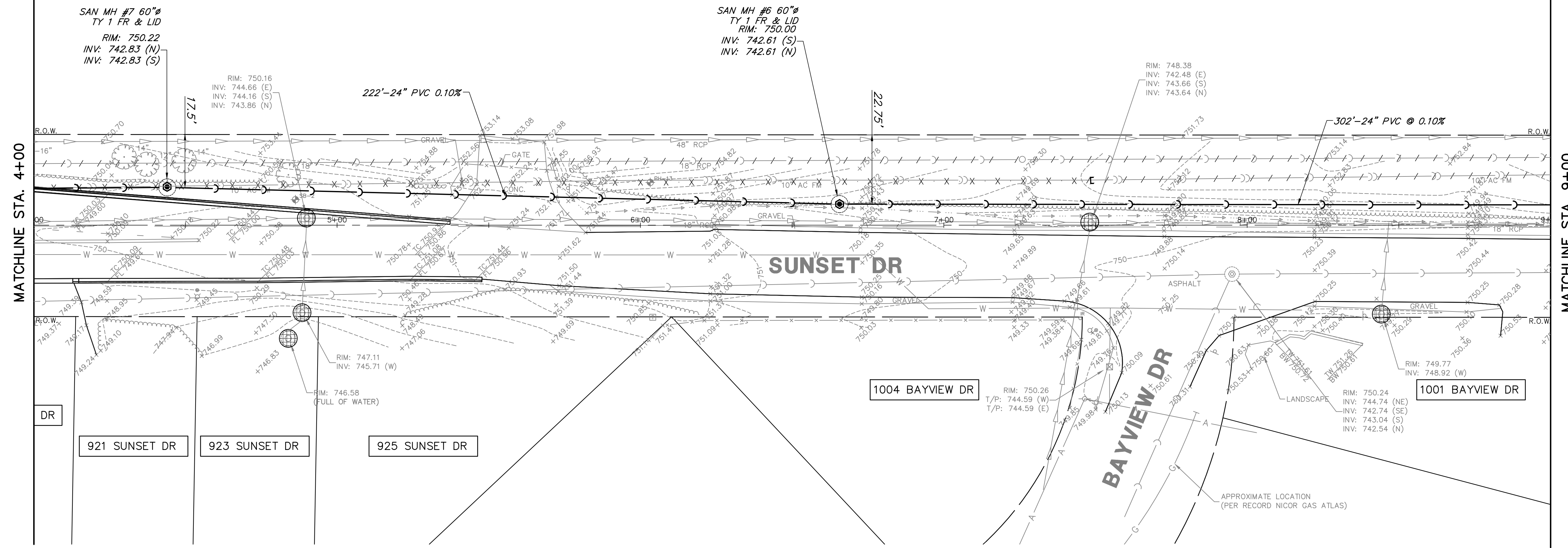
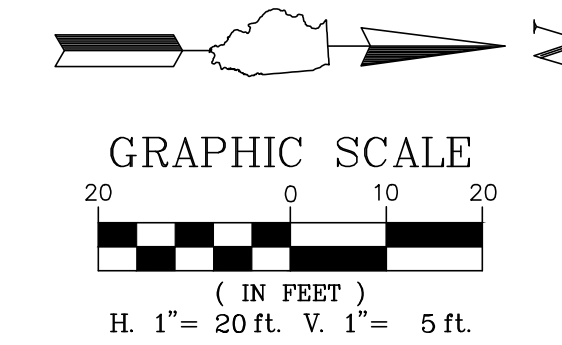
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**PLAN AND PROFILE (STA. 0+00 TO 4+00)**  
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**LAKE COUNTY PUBLIC WORKS DEPARTMENT**  
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 TEL 847.478.9700 ■ FAX 847.478.9701

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**PLAN AND PROFILE (STA. 4+00 TO 9+00)**  
**SUNSET DRIVE SANITARY SEWER REPLACEMENT**  
**LAKE COUNTY PUBLIC WORKS DEPARTMENT**  
**LAKE COUNTY, ILLINOIS**

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

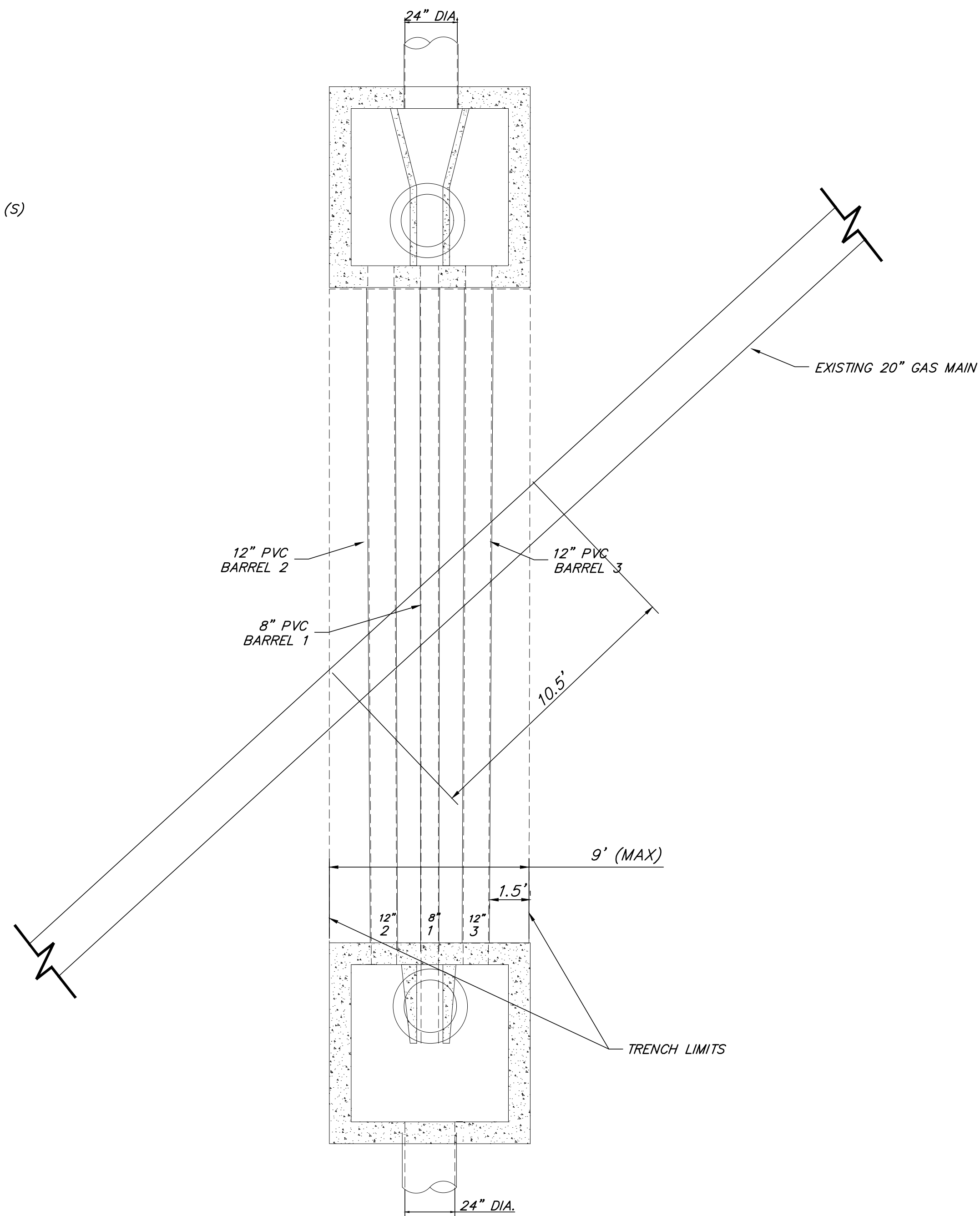
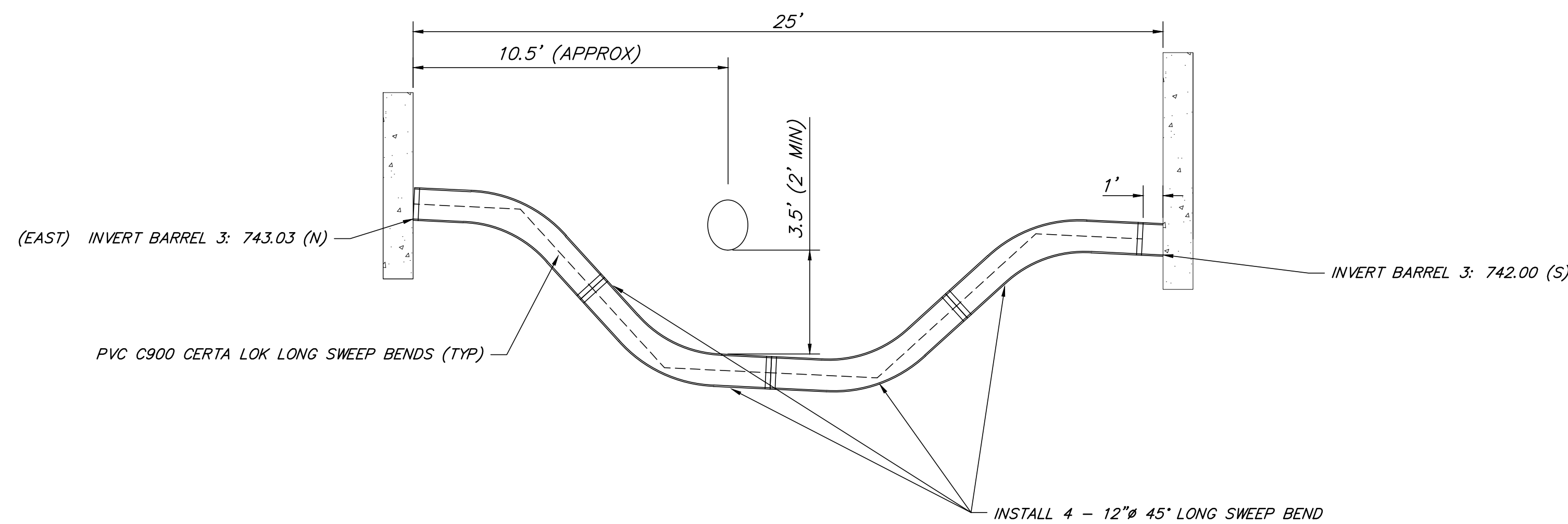
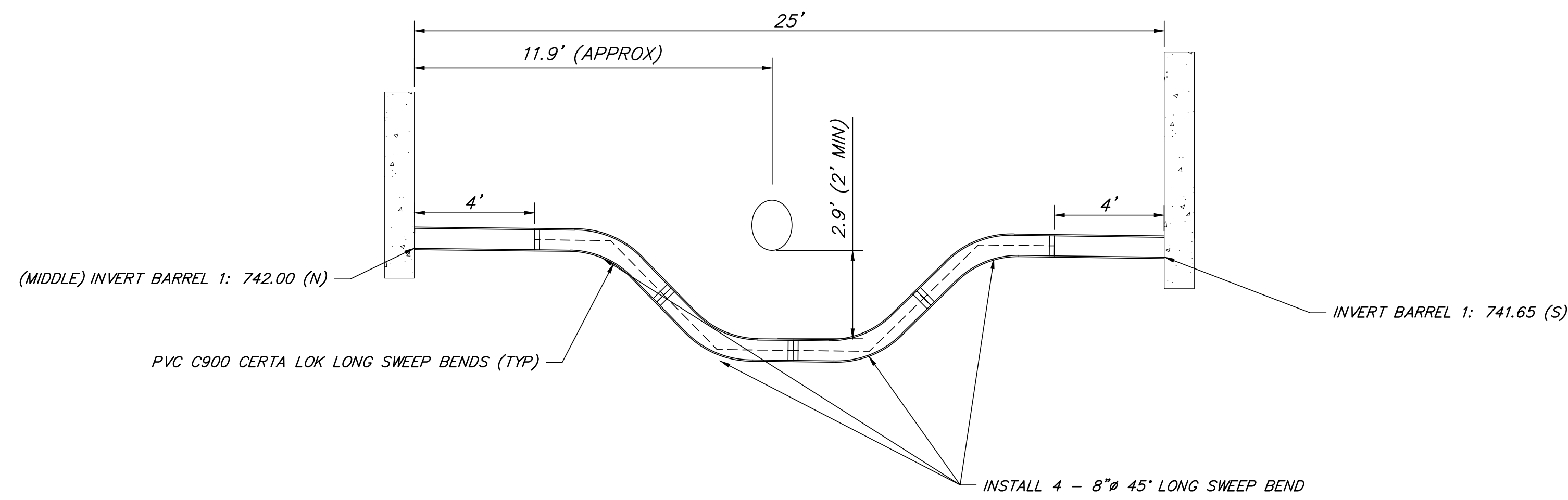
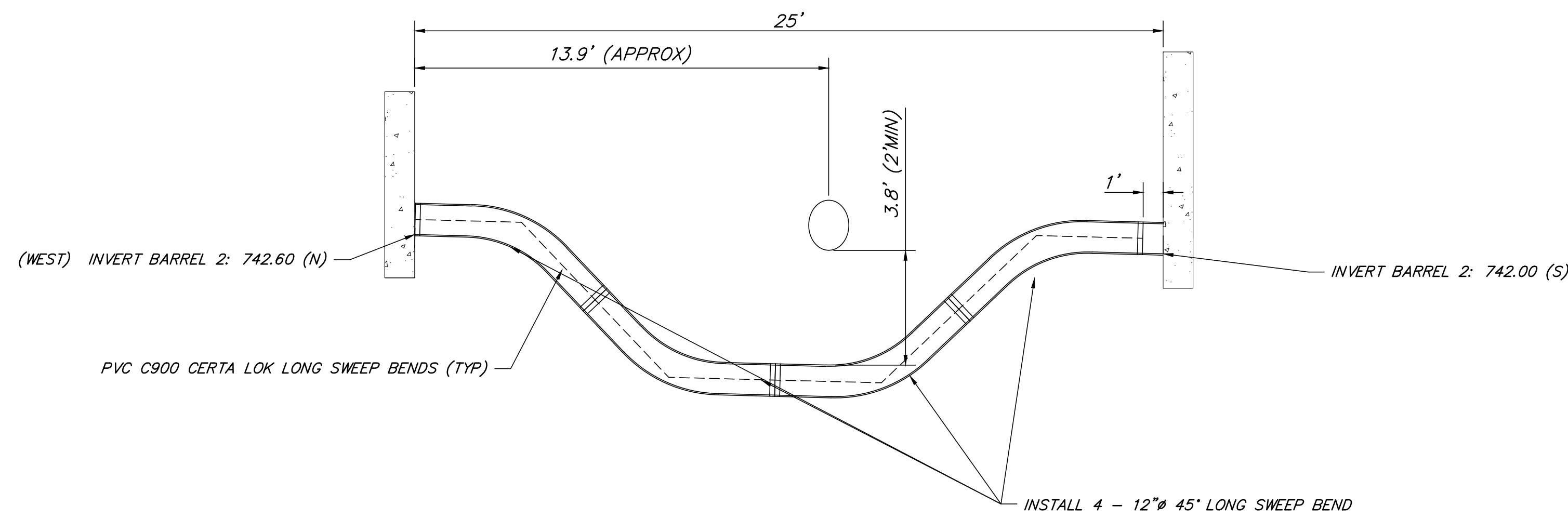
FILE: 5600.004-PR1.dwg  
 DRAWN BY: WR GHA PROJECT # 5600.004  
 DATE: 2/21/22  
 CHECKED BY: BJW SCALE: H: 1"=20'; V: 1"=5'  
 DATE: 2/21/22  
 SHEET NUMBER: **7** OF 12 SHEETS





NOTES:

1. ALL EXCAVATION NEAR THE GAS MAIN SHALL BE HAND DUG OR HYDRO EXCAVATED PER NICOR REQUIREMENTS.
2. THE CONTRACTOR SHALL PROTECT AND SUPPORT THE EXISTING 20-INCH GAS MAIN ACROSS THE OPEN TRENCH PER NICOR REQUIREMENTS.

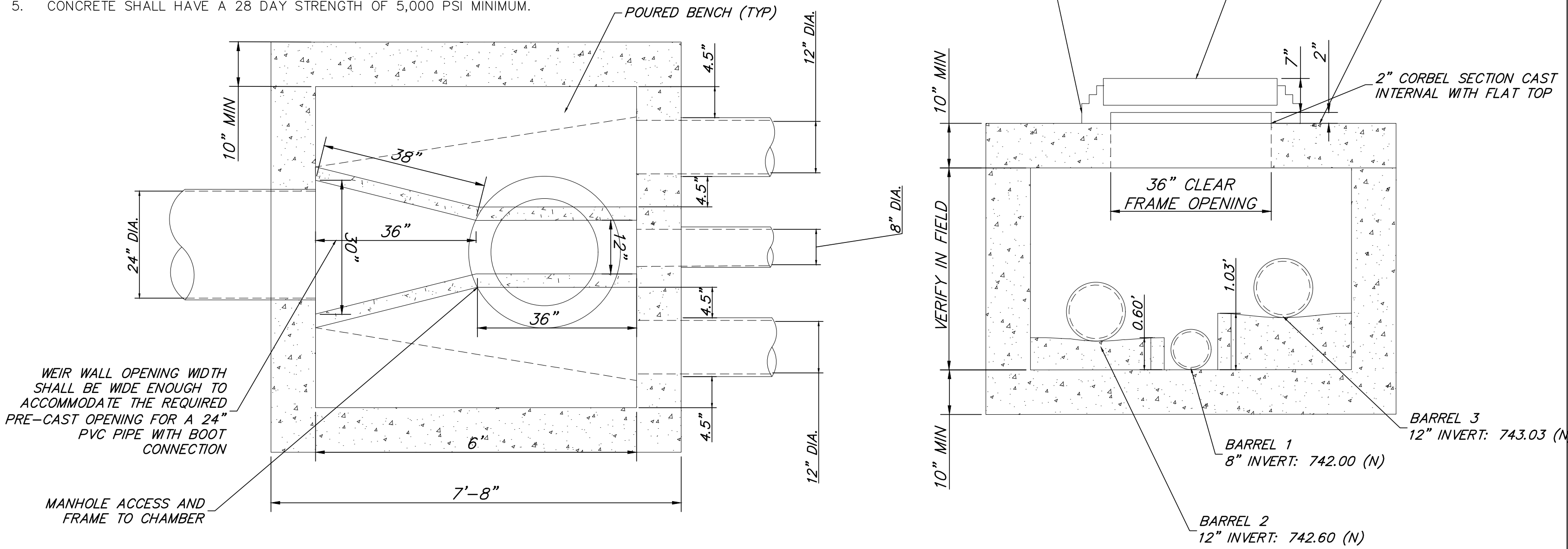


NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

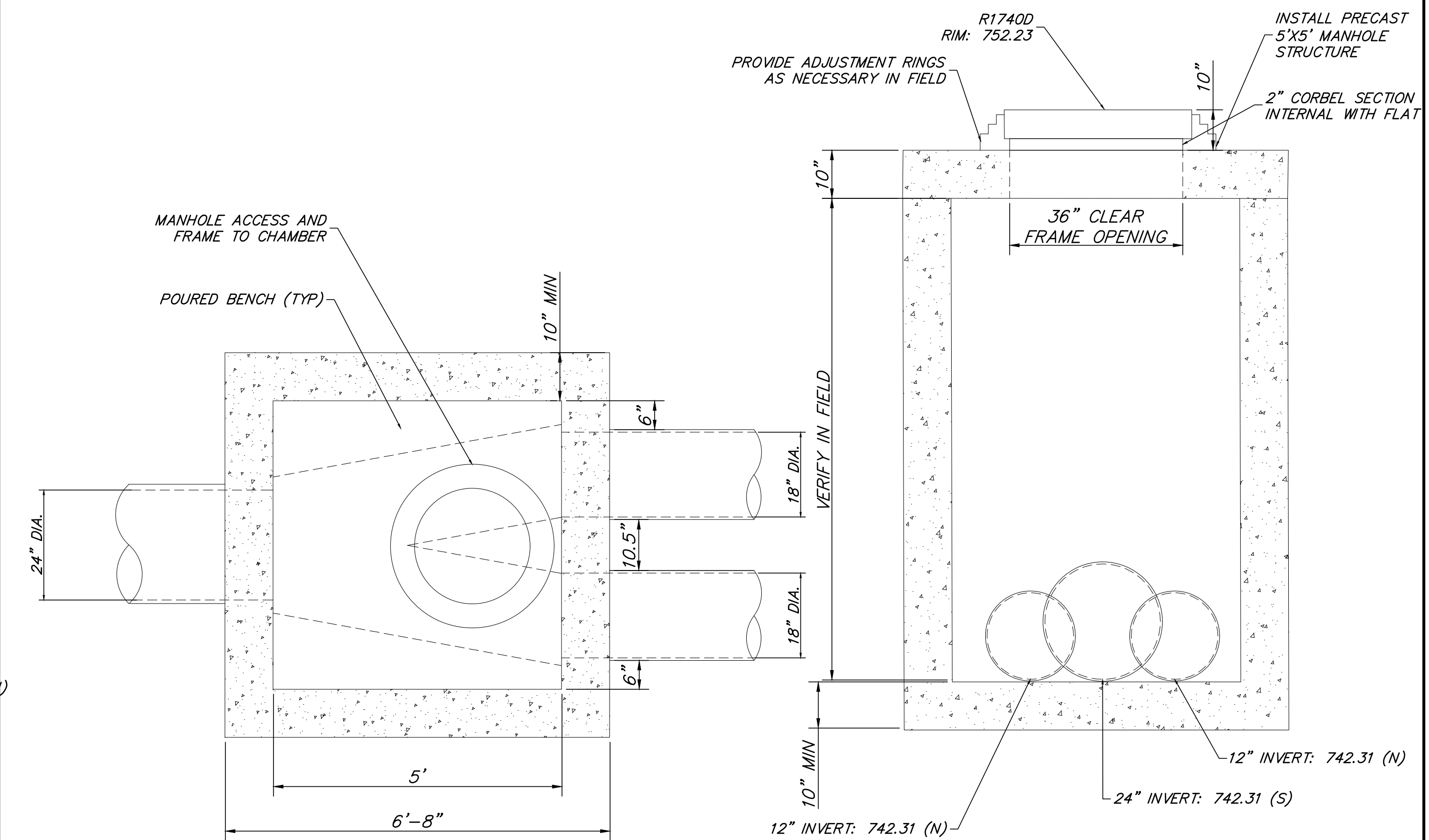
C:\WORK\5600.004.LAKE COUNTY PUBLIC WORKS\5600.004.DWG SUNSET DRIVE SANITARY SEWER REPLACEMENT\5600.004-DT.DWG 2/21/2022 9:58 AM

**NOTES:**

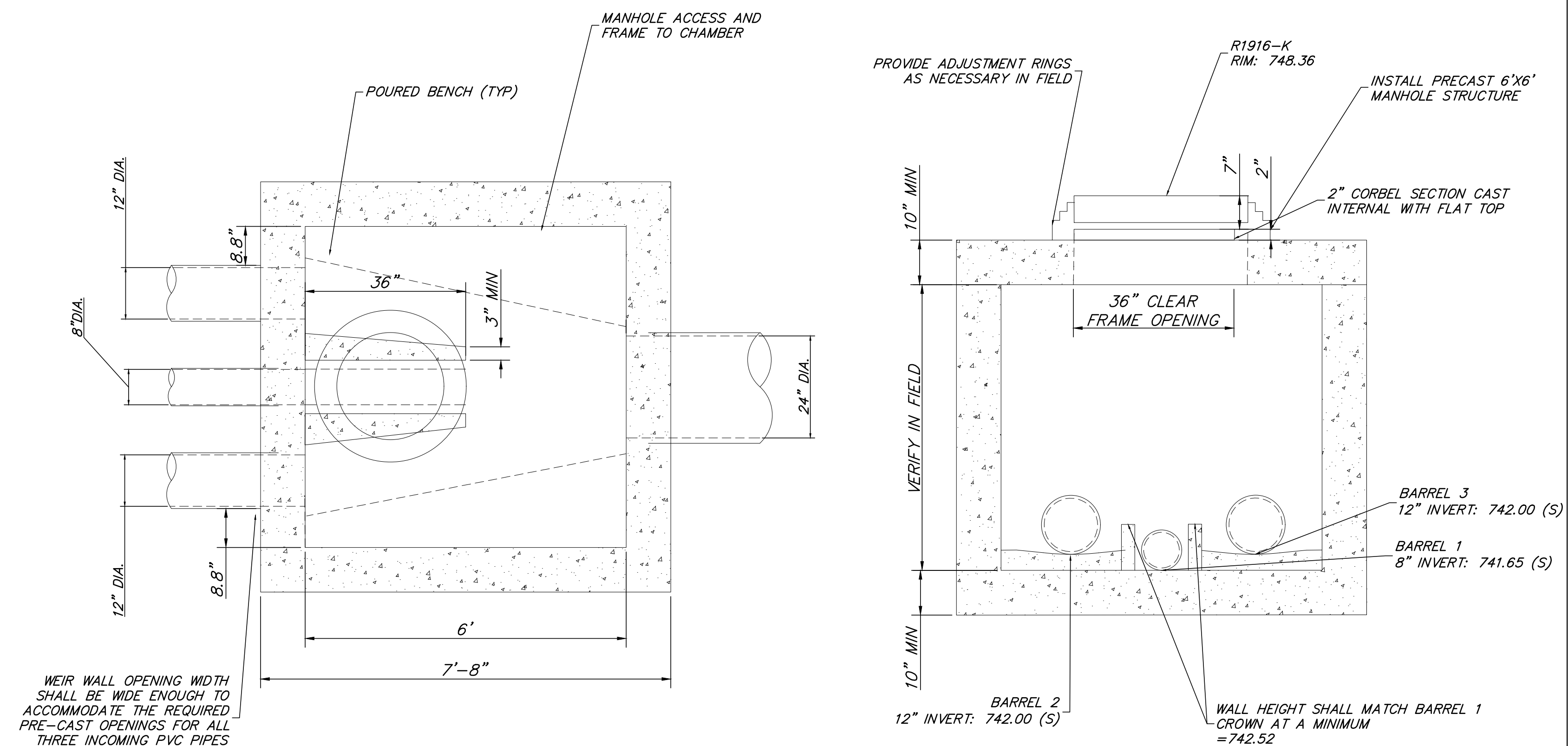
1. PRIOR TO ORDERING MATERIALS, CONTRACTOR SHALL SUBMIT SHOP DRAWING TO OWNER FROM MANUFACTURER FOR REVIEW AND APPROVAL. SHOP DRAWING SHALL DETAIL DIMENSIONS AS WELL AS STRUCTURAL COMPONENTS AND STANDARD STRENGTH OF CONCRETE.
2. SEE STORM MANHOLE TYPE "A" DETAIL FURTHER REQUIREMENTS.
2. PRECAST REINFORCED CONCRETE SECTIONS PER ASTM C-478 AND PREFORMED BITUMINOUS JOINTS WITH INTEGRAL PRECAST BOTTOMS.
3. ALL SEWER CONNECTIONS TO STRUCTURE SHALL CONFORM TO ASTM C-923
4. STEEL DESIGN SHALL CONFORM TO ASTM C-478.
5. CONCRETE SHALL HAVE A 28 DAY STRENGTH OF 5,000 PSI MINIMUM.



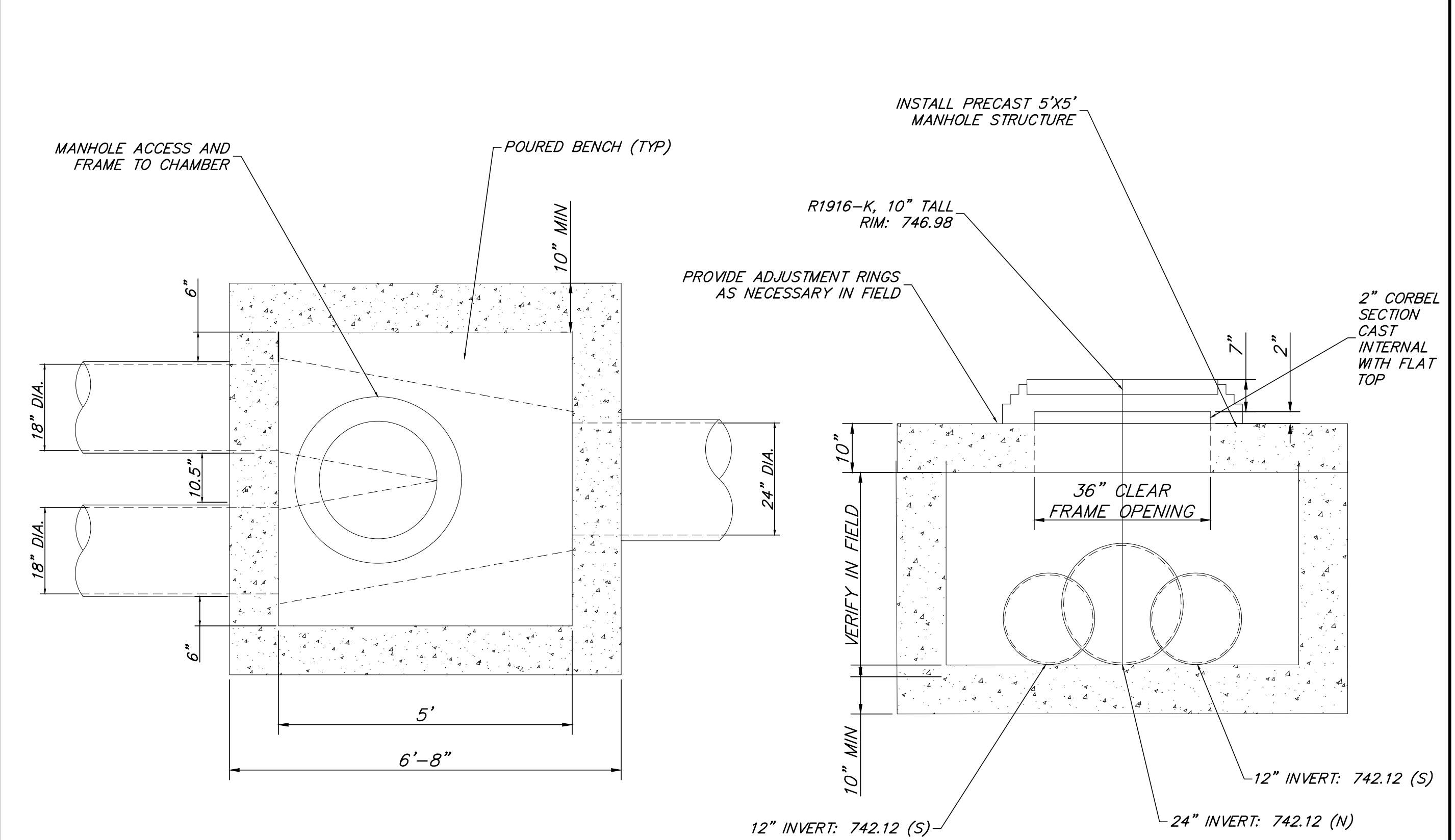
**MH#3 INVERTED SIPHON INLET CHAMBER SECTIONAL PLAN VIEW**



**MH#5 DOUBLE BARREL INLET CHAMBER**



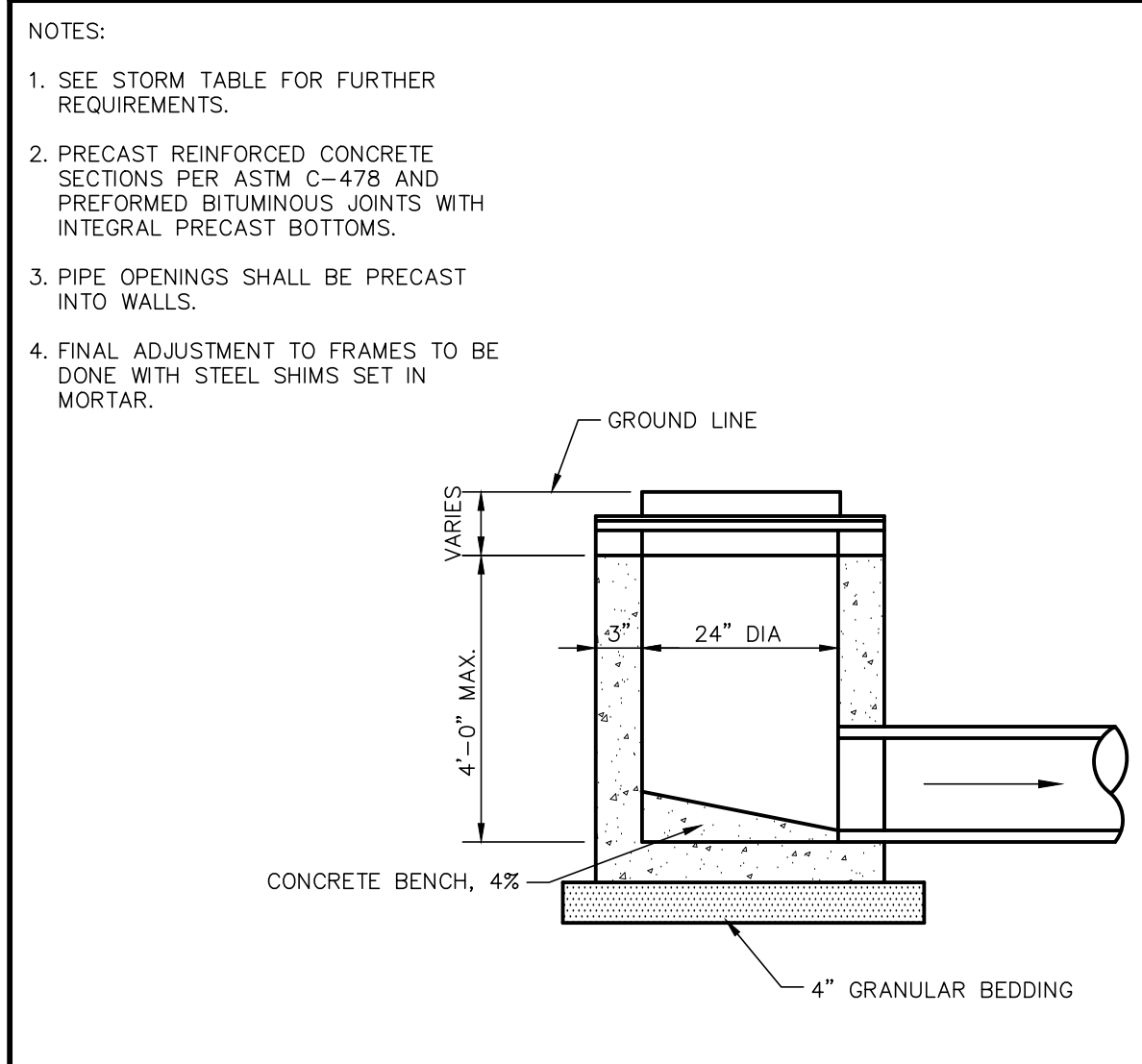
**MH#2 INVERTED SIPHON OUTLET CHAMBER SECTIONAL PLAN VIEW**



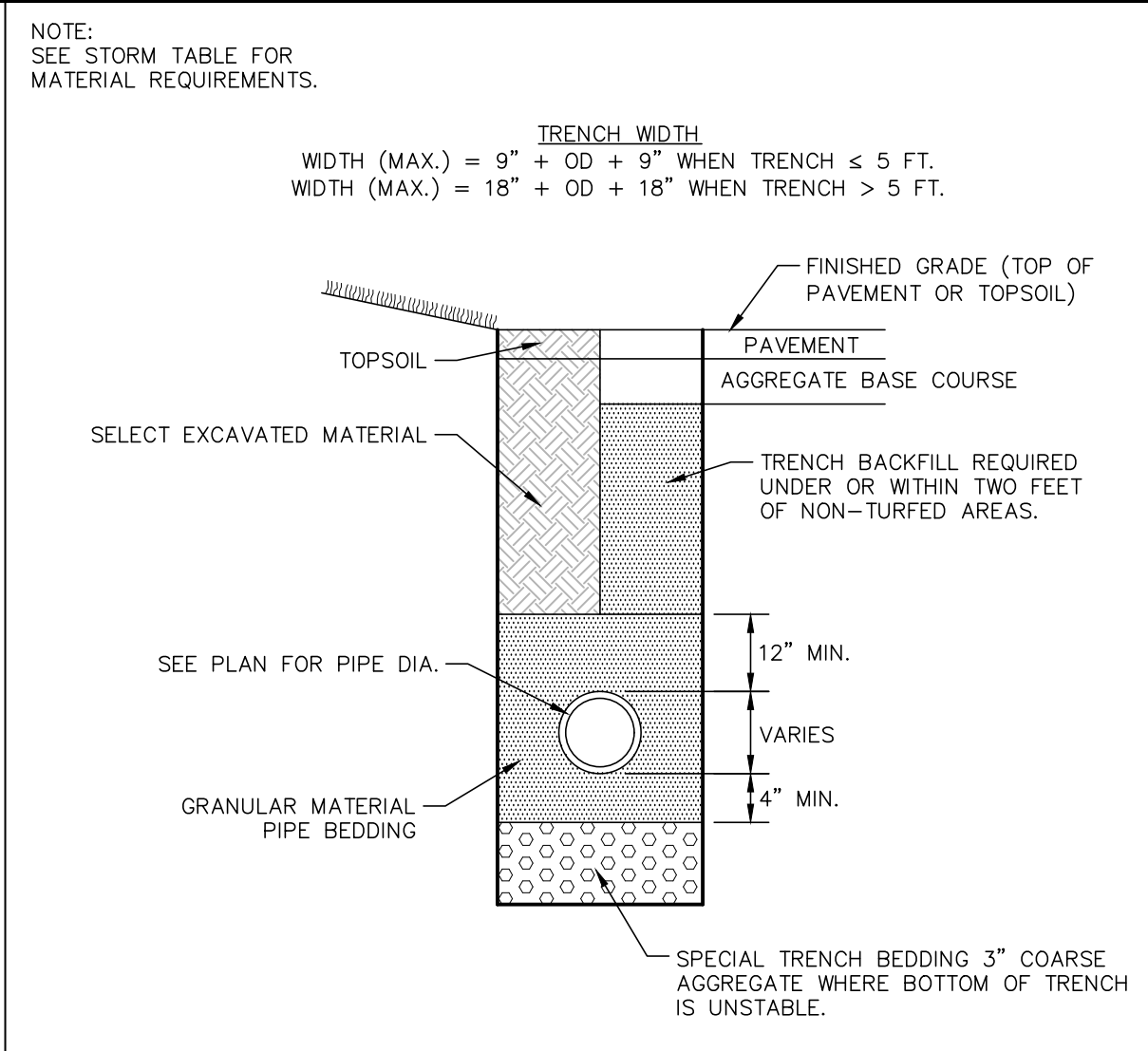
**MH#4 DOUBLE BARREL OUTLET CHAMBER**

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

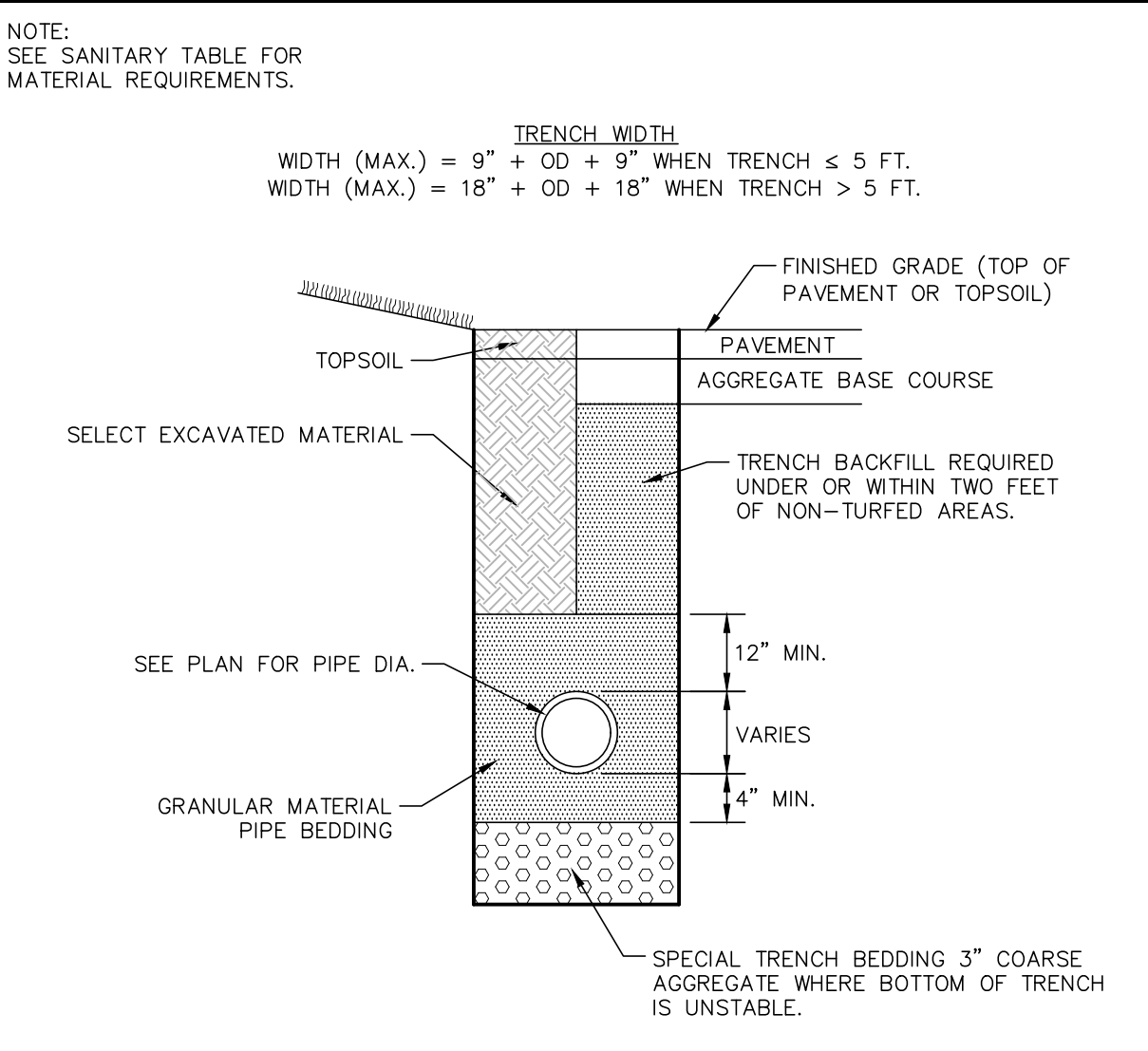




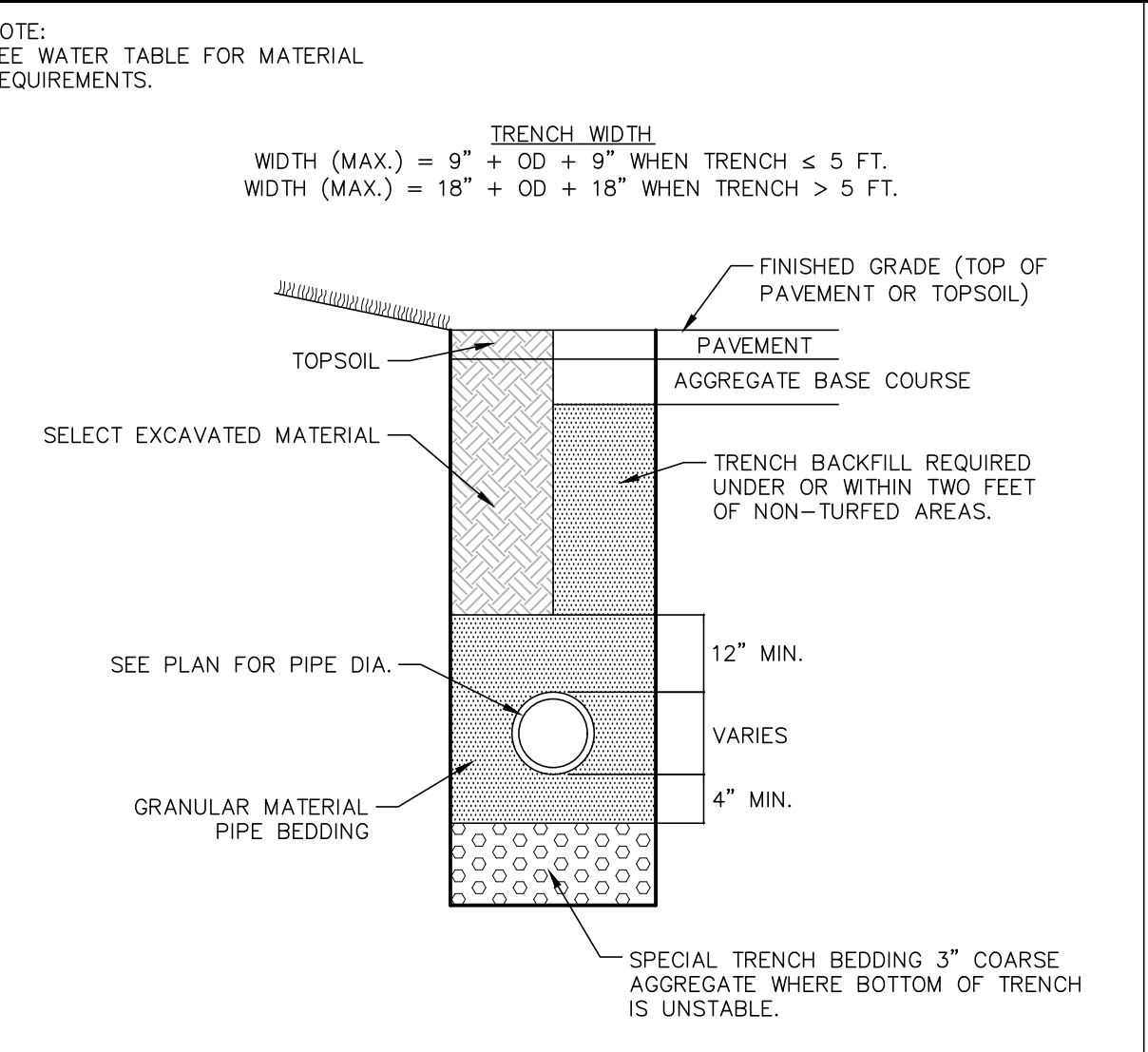
**GHA GEWALT HAMILTON ASSOCIATES, INC.** INLET TYPE A 03.15.2016



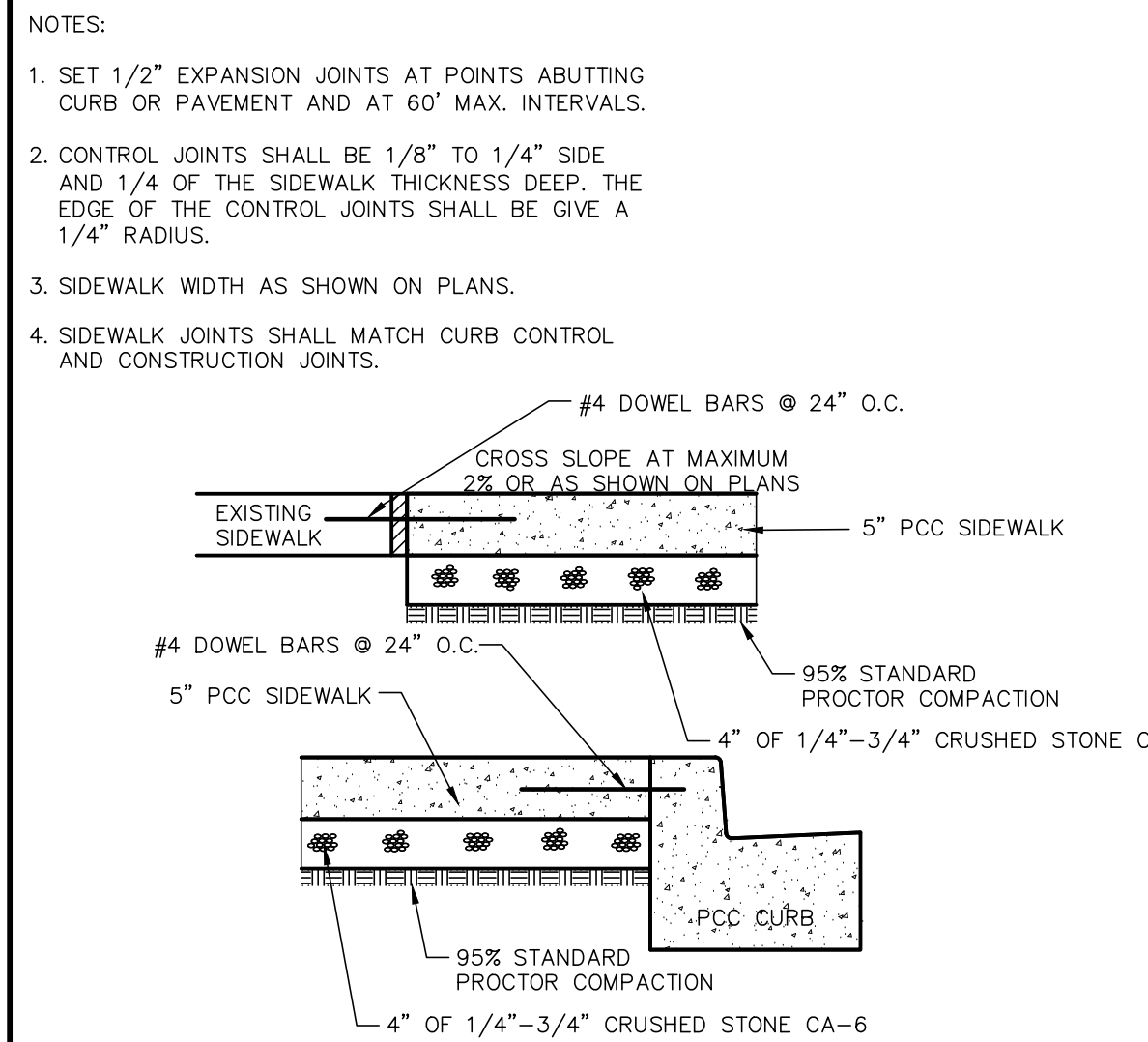
**GHA GEWALT HAMILTON ASSOCIATES, INC.** STORM TRENCH DETAIL FLEXIBLE PIPE INSTALLATION 10.08.2018



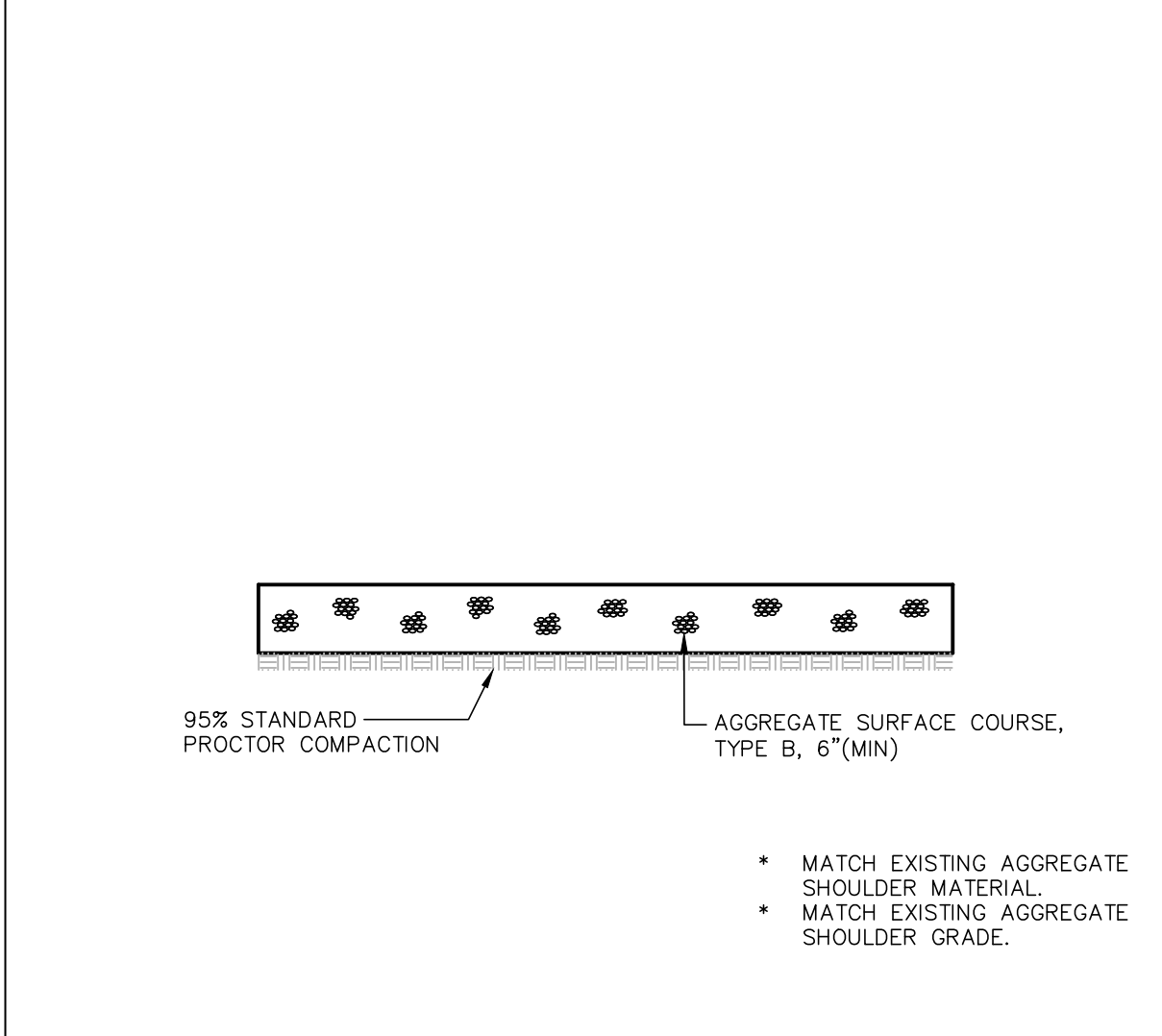
**GHA GEWALT HAMILTON ASSOCIATES, INC.** SANITARY TRENCH DETAIL 03.15.2016



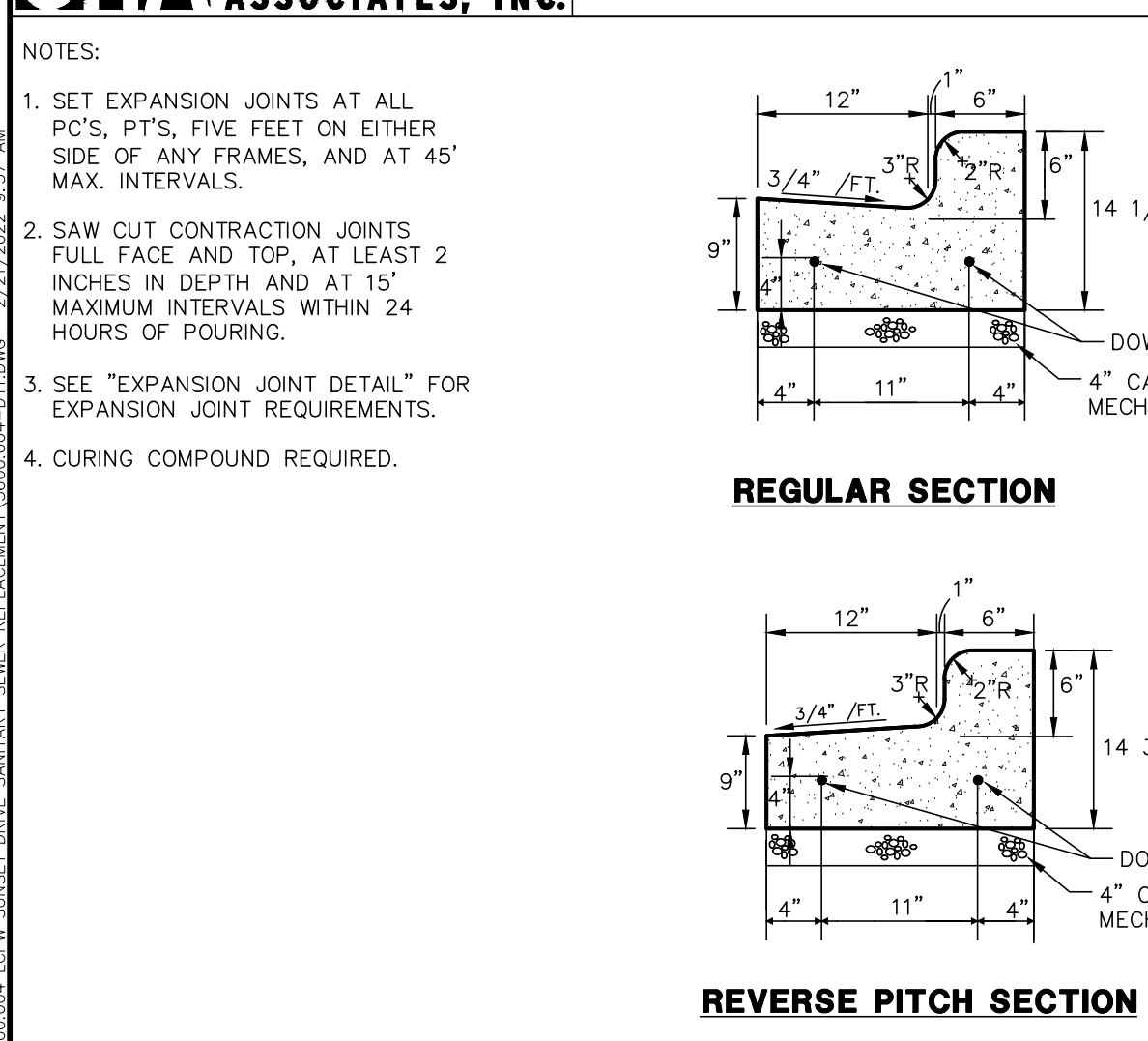
**GHA GEWALT HAMILTON ASSOCIATES, INC.** WATERMAIN TRENCH DETAIL 02.28.2019



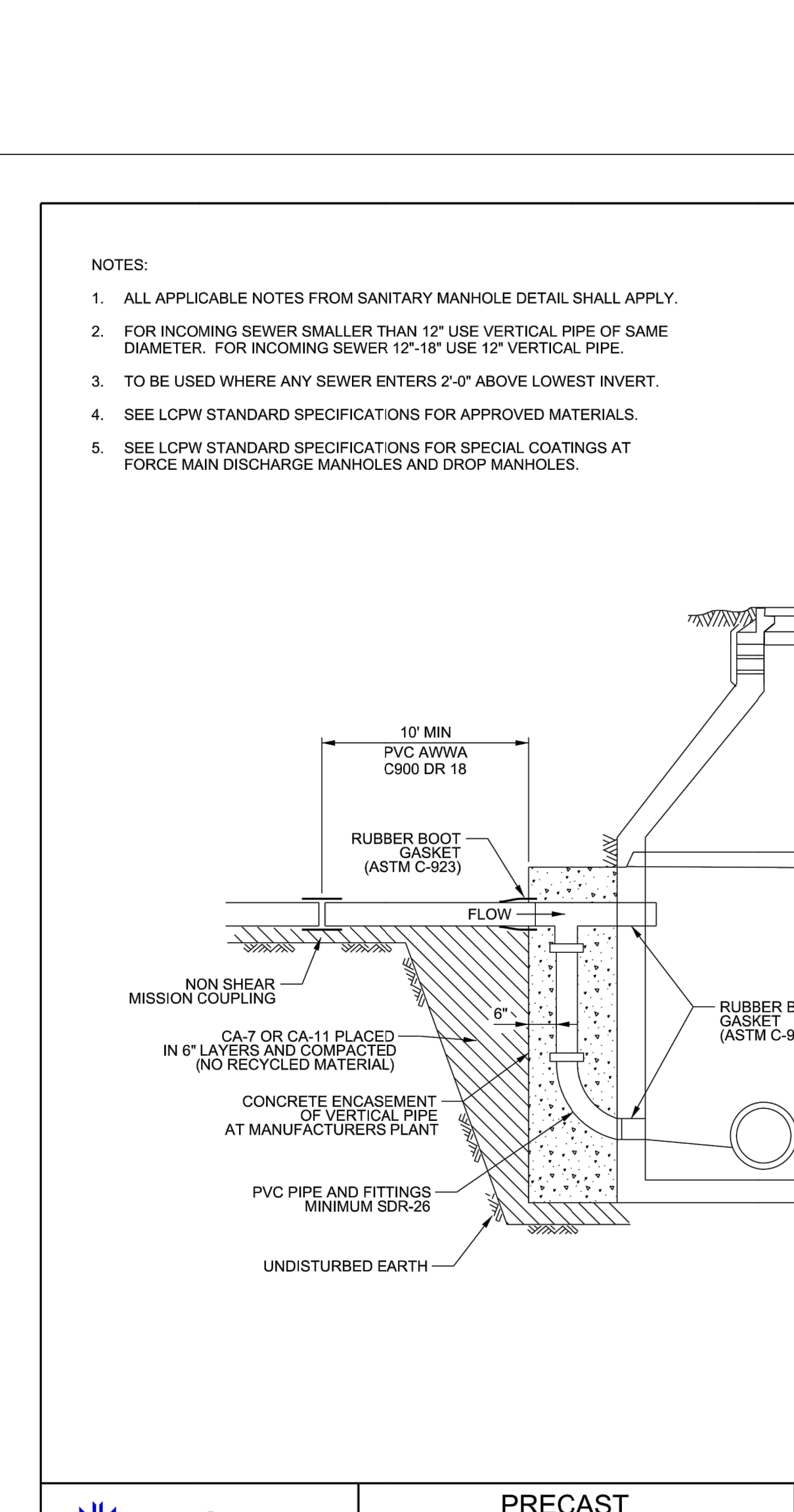
**GHA GEWALT HAMILTON ASSOCIATES, INC.** PCC SIDEWALK DETAIL 10.12.2018



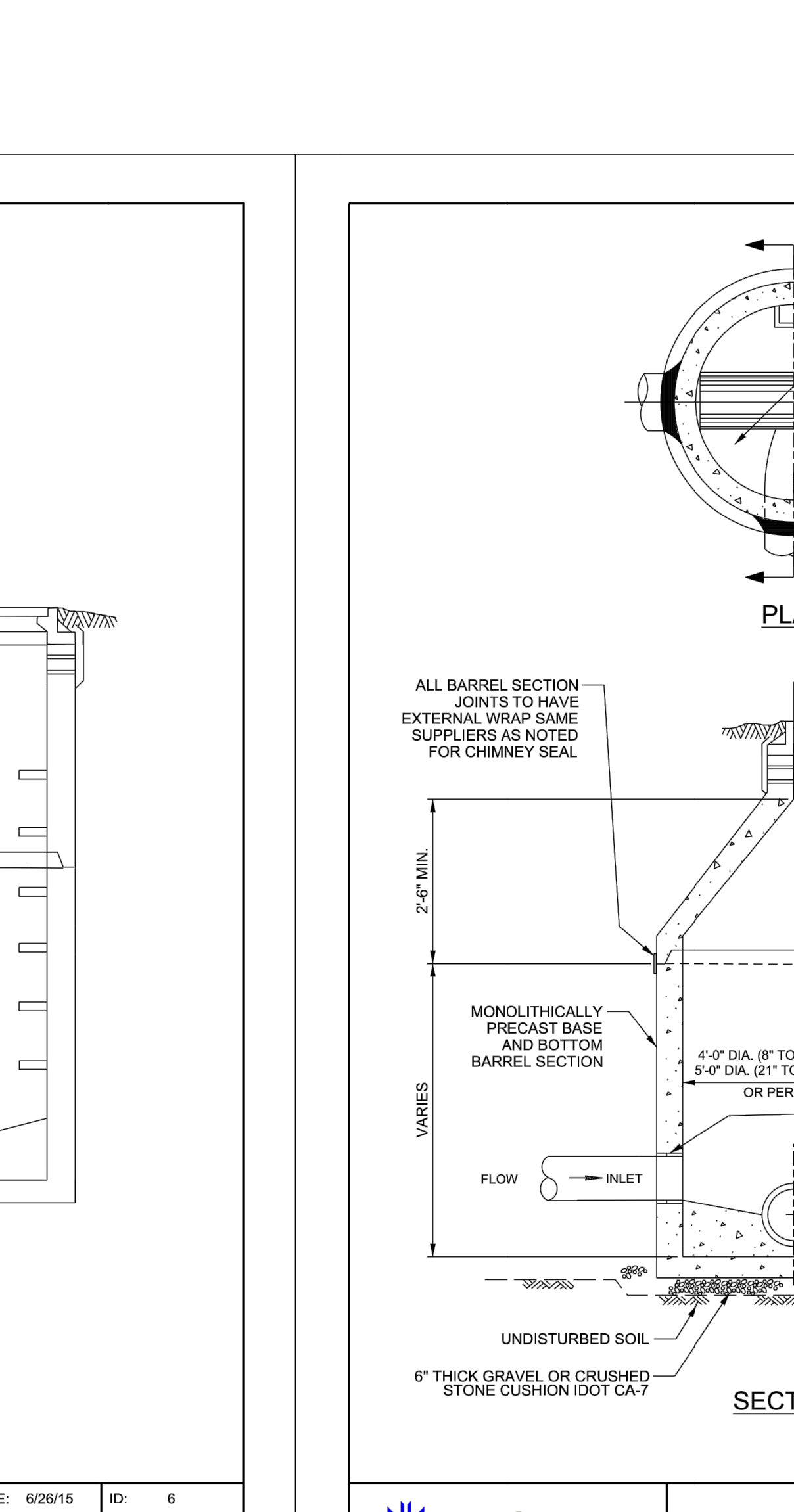
**GHA GEWALT HAMILTON ASSOCIATES, INC.** AGGREGATE SHOULDER DETAIL 10.12.2018



**GHA GEWALT HAMILTON ASSOCIATES, INC.** B6.12 CURB & GUTTER 10.12.2018

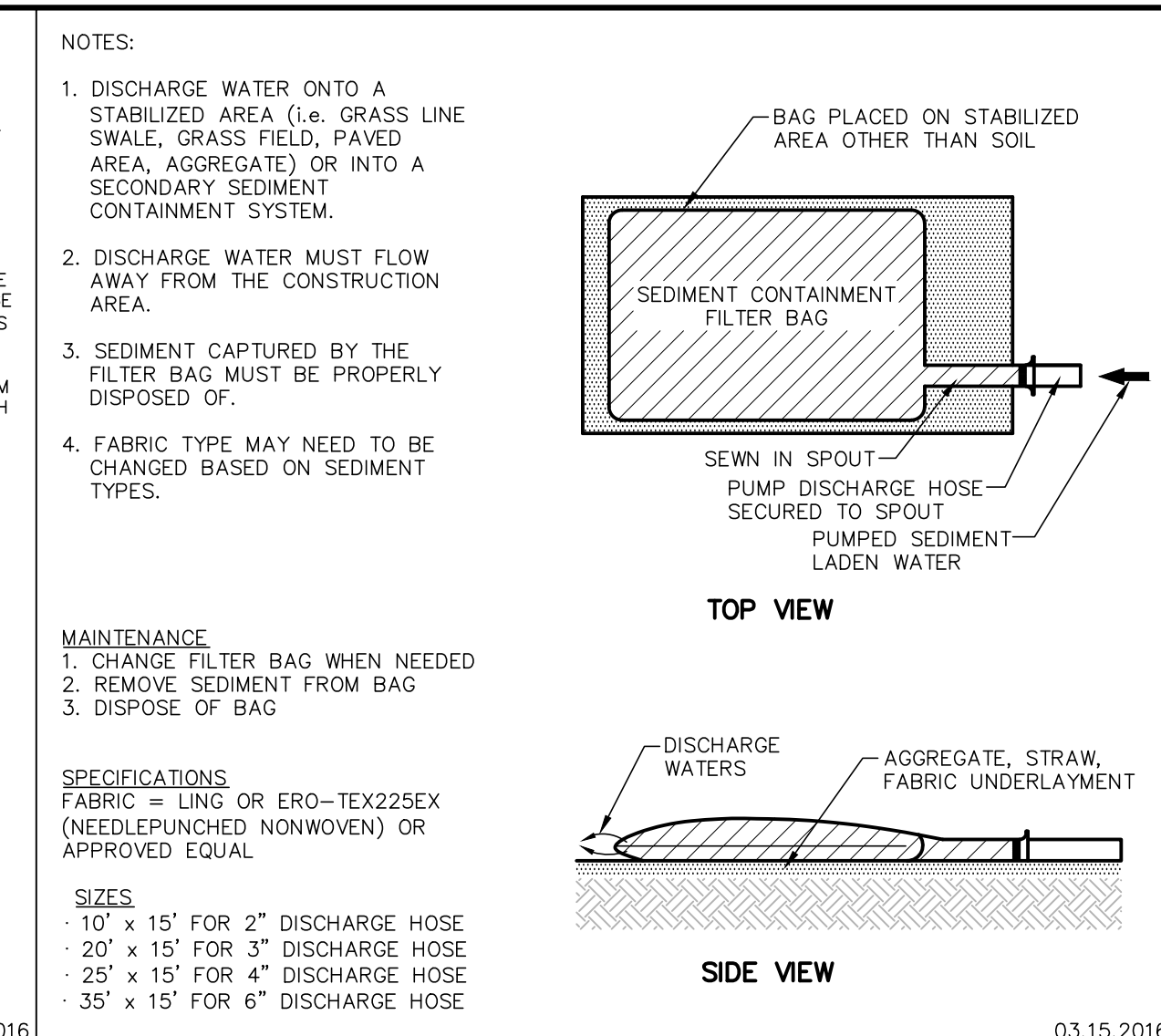
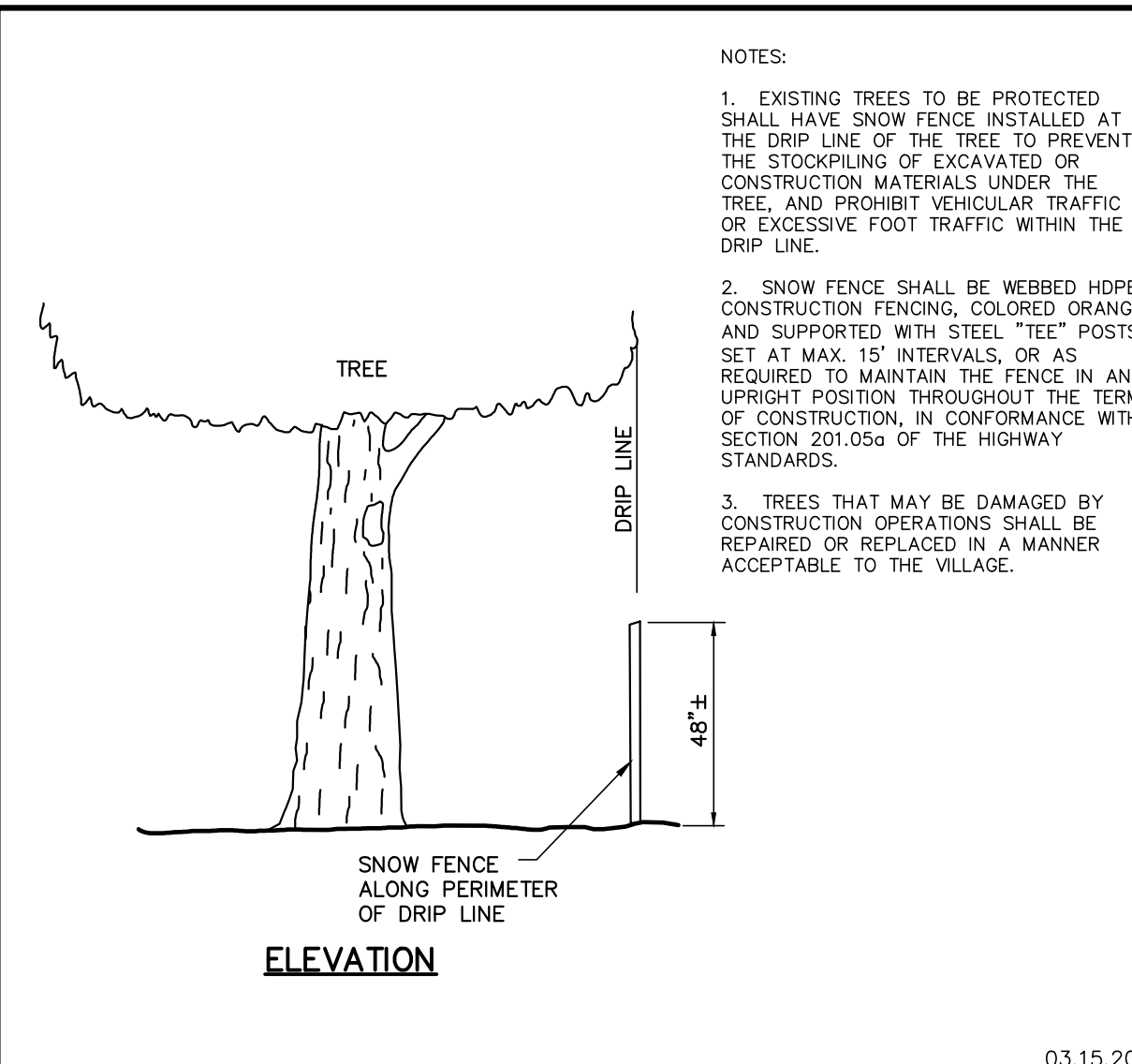


**Lake County Department of Public Works** PRECAST DROP MANHOLE CONNECTION DATE: 6/26/15 ID: 6 REVISIONS: DATE: ENG-MAIN. UPDATE 7/24/18 ENG-MAIN. UPDATE 12/14/20



**Lake County Department of Public Works** SANITARY MANHOLE DATE: 6/26/15 ID: 1 REVISIONS: DATE: ENG-MAIN. UPDATE 7/24/18 ENG-MAIN. UPDATE 12/14/20





Stabilization Type:

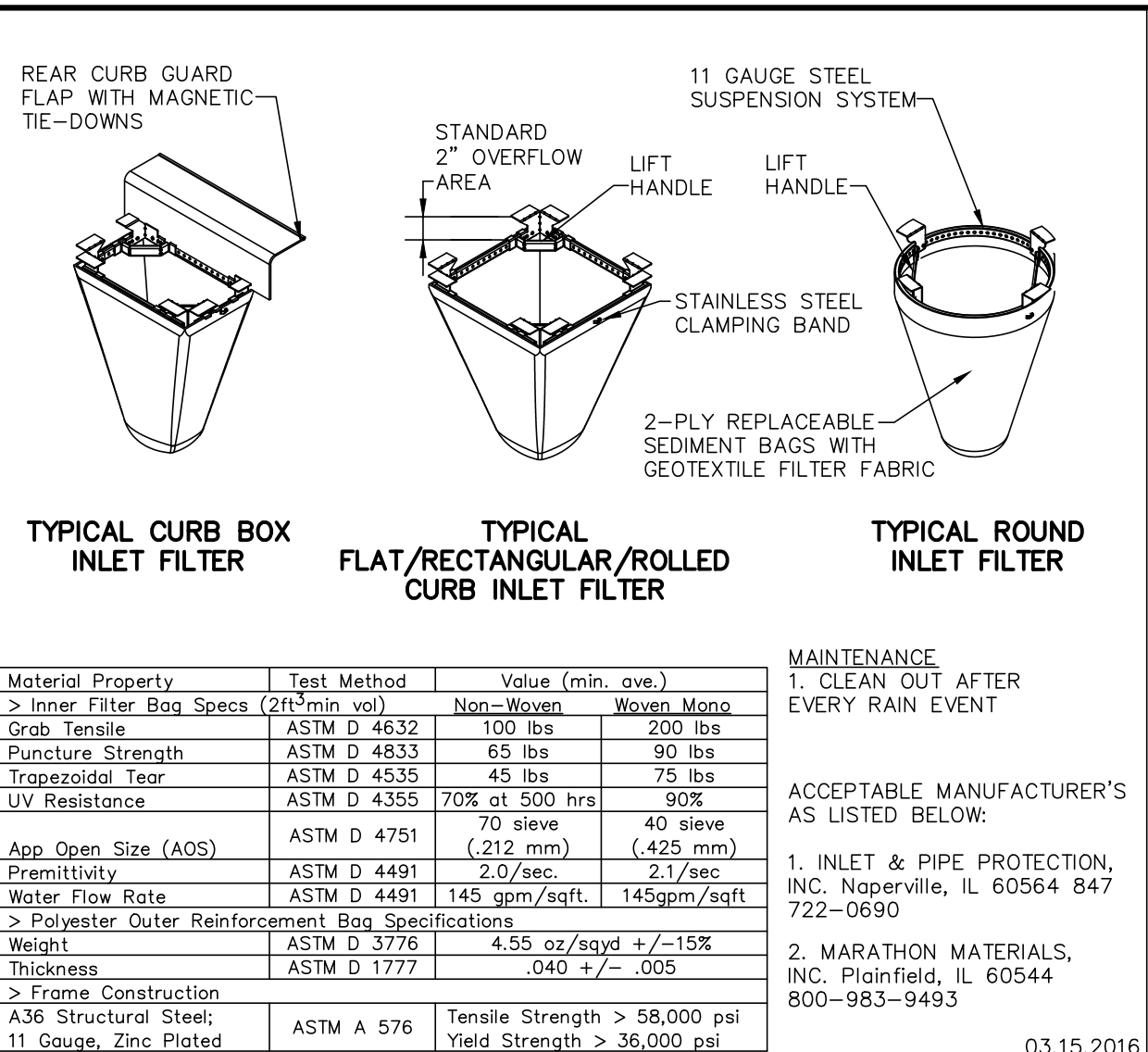
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Permanent Seeding			A	-----	X	X	X	X	X			
Dormant Seeding	B	-----										
Temporary Seeding			C	-----	X	X	X	X	X			
Sodding			E	X	X	X						
Mulching	F	-----										

A = KENTUCKY BLUEGRASS @ 90 LBS./AC. MIXED WITH PERENNIAL RYEGRASS @ 30 LBS./AC.  
 B = KENTUCKY BLUEGRASS @ 135 LBS./AC. MIXED WITH PERENNIAL RYEGRASS @ 45 LBS./AC.  
 C = SPRING OATS @ 100 LBS./AC.  
 D = WHEAT OR CEREAL RYE @ 150 LBS./AC.  
 E = SOD  
 F = STRAW MULCH (HYDROMULCH OR USE STRAW BLANKET) @ 2 TONS/AC.  
 XXX = IRRIGATION NEEDED

IRRIGATION SHOULD BE PROVIDED AS NECESSARY TO THOROUGHLY ESTABLISH INTENDED GROWTH.

NOTE:  
 SPRAYED ON PRODUCTS CANNOT BE USED NOV.-FEB.

03.15.2016



**GHA GEWALT HAMILTON ASSOCIATES, INC.**

**TREE PROTECTION FENCING DETAIL**

**GHA GEWALT HAMILTON ASSOCIATES, INC.**

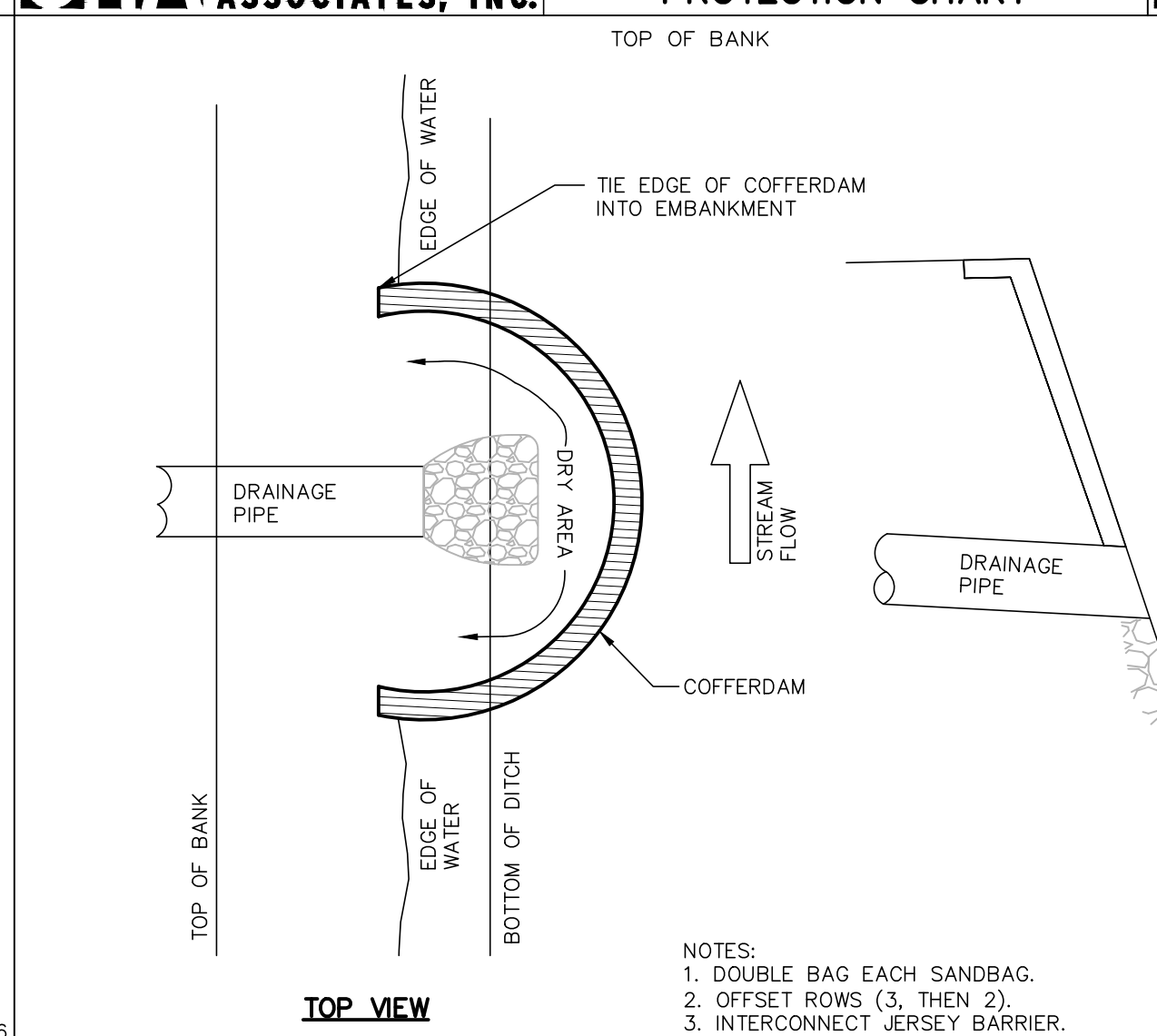
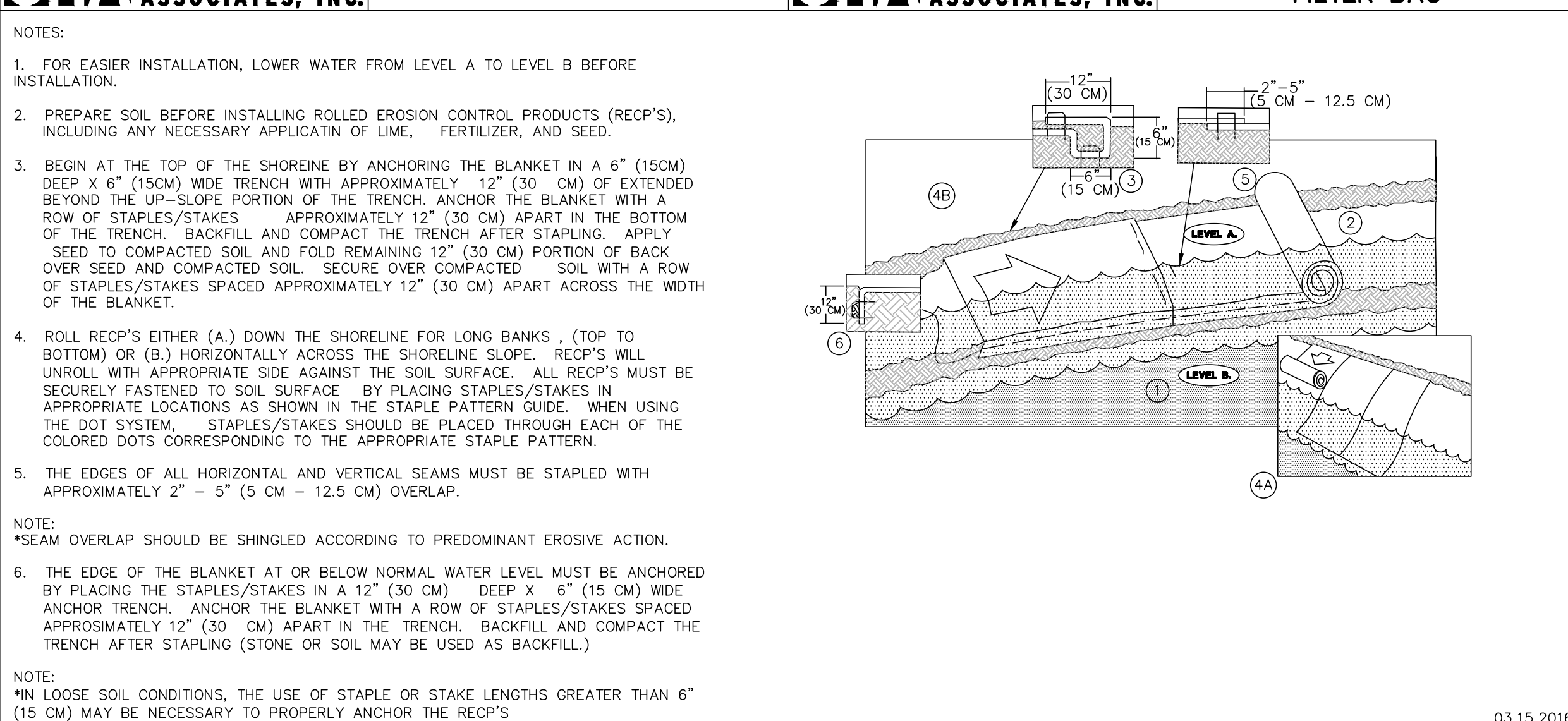
**SEDIMENT CONTAINMENT FILTER BAG**

**GHA GEWALT HAMILTON ASSOCIATES, INC.**

**TYPICAL SOIL PROTECTION CHART**

**GHA GEWALT HAMILTON ASSOCIATES, INC.**

**INLET FILTER BASKET DETAIL**



**GHA GEWALT HAMILTON ASSOCIATES, INC.**

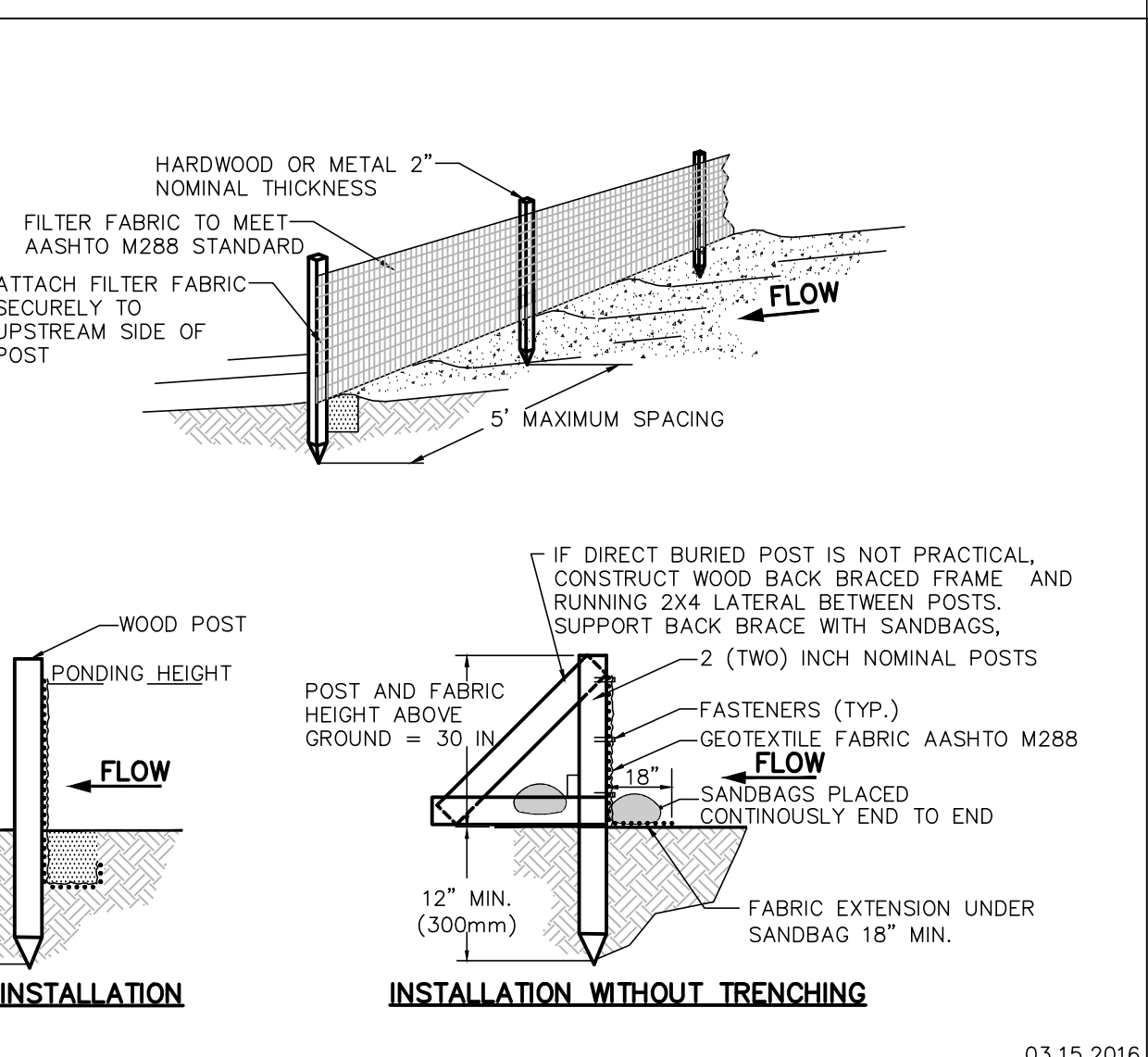
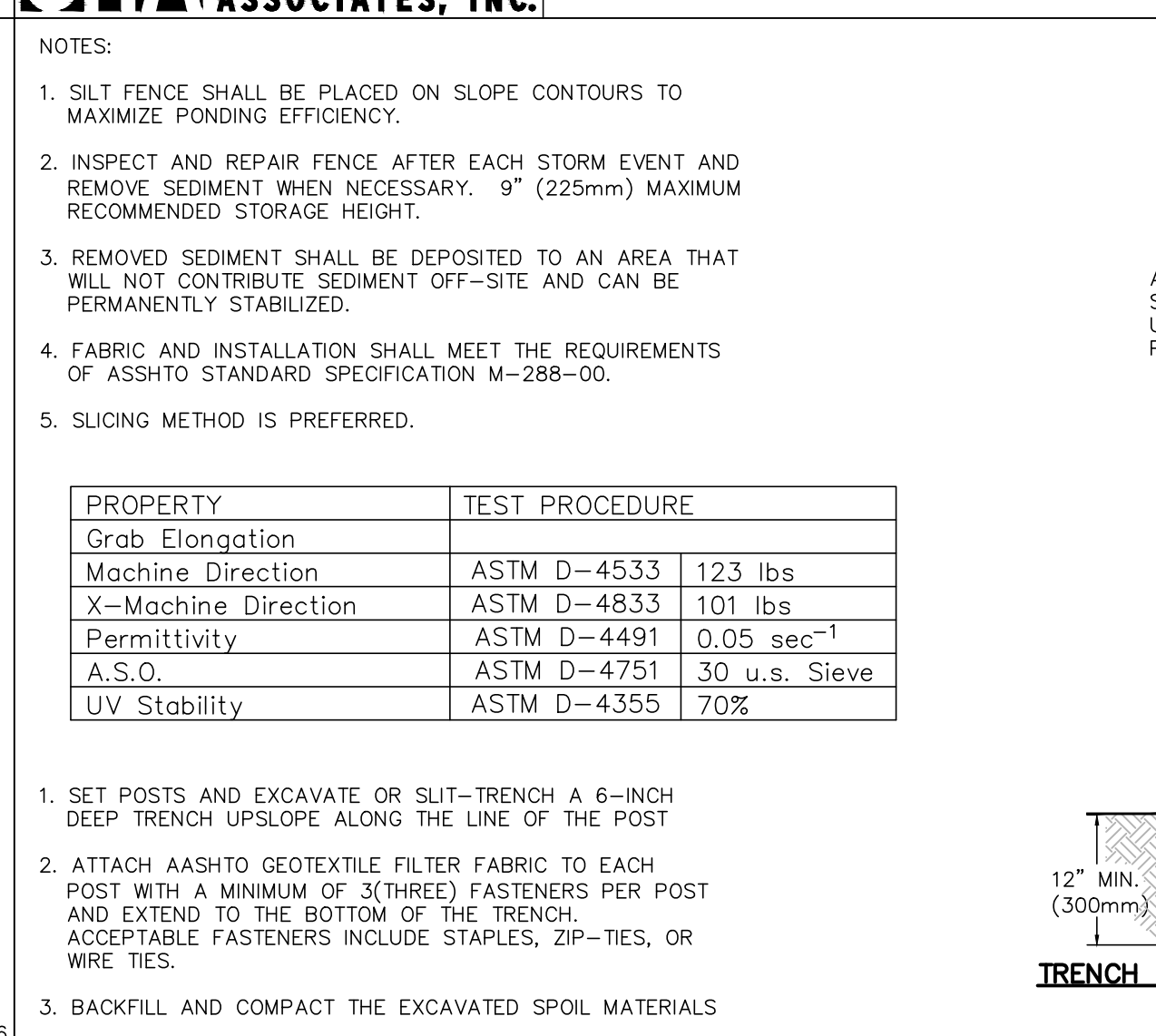
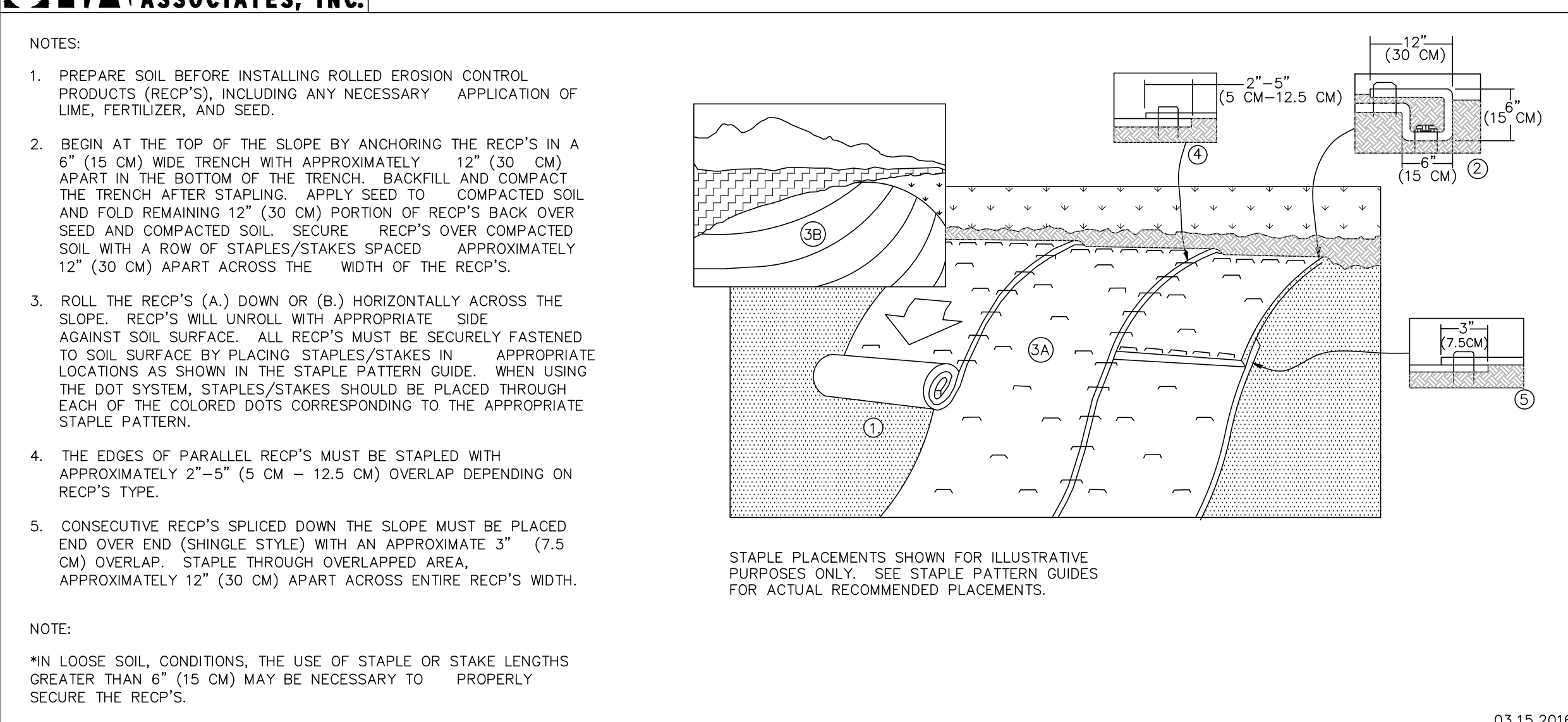
**INLET FILTER BASKET DETAIL**

**GHA GEWALT HAMILTON ASSOCIATES, INC.**

**EROSION CONTROL BLANKET SHORELINE INSTALLATION**

**GHA GEWALT HAMILTON ASSOCIATES, INC.**

**COFFERDAM DETAIL**



**GHA GEWALT HAMILTON ASSOCIATES, INC.**

**EROSION CONTROL BLANKET SLOPE INSTALLATION**

**GHA GEWALT HAMILTON ASSOCIATES, INC.**

**SILT FENCE INSTALLATION DETAIL**

**GHA GEWALT HAMILTON ASSOCIATES, INC.**

**INFLATABLE BLADDER COFFERDAM DETAIL**

**GHA GEWALT HAMILTON ASSOCIATES, INC.**

625 Forest Edge Drive ■ Vernon Hills, IL. 60061  
 TEL 847.478.9700 ■ FAX 847.478.9701

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**EROSION CONTROL DETAILS**

**SUNSET DRIVE SANITARY SEWER REPLACEMENT**

**LAKE COUNTY PUBLIC WORKS DEPARTMENT**

**LAKE COUNTY, ILLINOIS**

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

FILE: 5600.004-DT1.dwg

DRAWN BY: WR GHA PROJECT # 5600.004

CHECKED BY: BJW SCALE: N.T.S.

DATE: 2/21/22

SHEET NUMBER: **12**

OF 12 SHEETS