

## SANITARY SEWER REPAIR ANNUAL CONTRACT

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REV	DATE	BY	DESCRIPTION

SCALE \_\_\_\_\_

WARNING  

 IF THIS BAR DOES NOT EQUAL 1" THEN DRAWING IS NOT TO SCALE

DESIGNED \_\_\_\_\_  
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SEWER REHABILITATION  
 DRAWING INDEX

SHEET  
 G-2



**GENERAL NOTES**

- OWNER: CITY OF ATLANTA, DEPARTMENT OF WATERSHED MANAGEMENT  
68 MITCHELL STREET, SW  
ATLANTA, GEORGIA 30303  
PHONE: (404) 330-6801
- ALL CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE PROJECT SPECIFICATIONS AND THE CITY OF ATLANTA STANDARD SPECIFICATIONS. IN THE CASE OF CONFLICTS, THE PROJECT SPECIFICATIONS SHALL GOVERN. THE CONTRACTOR SHALL OBTAIN AND USE ALL APPLICABLE ADDENDA.
- ALL ITEMS WHICH MUST BE REMOVED DURING CONSTRUCTION, AND ARE NOT SPECIFICALLY SHOWN TO BE PAID FOR OTHERWISE, SHALL BE REMOVED AND PAYMENT WILL BE INCLUDED IN THE UNIT PRICE BID FOR PIPE INSTALLATION. NO CLAIMS WILL BE CONSIDERED FOR EXTRA COMPENSATION.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONFORM TO ALL THE REQUIREMENTS OF THE SPECIFICATIONS AS THEY RELATE TO COOPERATION WITH THE UTILITY OWNERS AND THE UTILITY LOCATIONS THAT EXIST ON THE SITE. CONTRACTOR MUST ALSO COMPLY WITH ALL DOT, RR, AND UTILITY COMPANY'S REQUIREMENTS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE HIS WORK WITH ANY WORK TO BE PERFORMED BY THE UTILITY OWNERS OR OTHERS IN ANY RIGHT-OF-WAY CLEARANCE AND ARRANGE A SCHEDULE OF OPERATIONS THAT WILL ALLOW FOR THE COMPLETION OF THE PROJECT WITHOUT ANY UNDUE DELAY. CONTRACTOR TO NOTIFY UTILITY PROTECTION AGENCY 72 HOURS PRIOR TO START OF WORK. TELEPHONE NUMBER (770)623-4344 OR 1-800-282-7411 OR CALL 811.
- THE CONTRACTOR WILL NOT BE COMPENSATED FOR ANY DELAY OR DAMAGE CAUSED BY UTILITY FACILITIES, OBSTRUCTION, OR ANY OTHER ITEM NOT BEING REMOVED OR RELOCATED TO CLEAR CONSTRUCTION IN ADVANCE OF HIS WORK.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO KEEP UP WITH "ALL" UPDATED INFORMATION FROM THE UTILITIES PROTECTION CENTER (UPC) FOR ALL UTILITIES.
- CONSTRUCTION DEWATERING ACTIVITIES SHALL STRICTLY CONFORM TO THE PROVISIONS AND REQUIREMENTS OF SPECIFICATION SECTION 02140.
- DRAINAGE SYSTEMS (SEWERS, CULVERTS, ETC.) WILL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION OF THIS PROJECT. WHERE A DRAINAGE STRUCTURE IS DAMAGED FROM HIS WORK, THE CONTRACTOR WILL NOT BE COMPENSATED FOR PERFORMING REPAIRS.
- ALL DISTURBED UNPAVED AREAS SHALL BE LANDSCAPED AS DESCRIBED IN SPECIFICATION SECTION 02900.
- ALL CONCRETE SIDEWALK, CURB, AND CONCRETE APPROACH RAMP WHICH ARE REQUIRED TO BE REMOVED TO PERMIT INSTALLATION OF PIPE SHALL BE NEATLY SAW CUT AND RESTORED TO MATCH EXISTING STRUCTURES AND GRADE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING STRUCTURES, UTILITIES, FENCES, SHRUBBERY, AND RETAINING WALLS WHICH ARE NOT TO BE DISTURBED DURING CONSTRUCTION.
- COSTS ASSOCIATED WITH CONTRACTOR STORAGE, LAY-DOWN, AND PARKING AREAS SHALL BE INCLUDED IN THE RATES FOR WORK.
- ALL FILL AREAS MUST BE COMPACTED TO MINIMUM 95% STANDARD PROCTOR UNLESS OTHERWISE SPECIFIED OR INDICATED.
- REMOVAL AND RESETTING OF ANY TYPE OF FENCES, HANDRAILS, OR GUARDRAILS WILL NOT BE MEASURED SEPARATELY FOR PAYMENT. THE COST SHALL BE INCLUDED IN THE RATES FOR WORK. NO CLAIMS WILL BE CONSIDERED FOR EXTRA COMPENSATION.
- ALL EXCESS MATERIALS WILL BE HAULED OFF BY THE CONTRACTOR SO AS TO RESTORE THE ORIGINAL CONDITION OF THE SITE. SPREADING EXCESS MATERIALS AT THE JOB SITE IS NOT PERMITTED.
- PAINTING AND COATING WILL NOT BE MEASURED FOR SEPARATE PAYMENT. COST OF PAINTING AND COATING IS TO BE INCLUDED IN THE UNIT PRICE BID FOR OTHER ITEMS.
- CONTRACTOR'S TRAFFIC CONTROL PLAN MUST BE APPROVED BY AUTHORITY HAVING JURISDICTION BEFORE WORK BEGINS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RAISING ALL UTILITY CASTINGS SUCH AS MANHOLE COVERS, VALVE BOX COVERS, ETC. PRIOR TO ANY PAVING. THE COVERS SHALL BE FLUSH WITH THE PROPOSED FINISH GRADE AND THE COVERS SHALL BE TILTED AS NECESSARY WITH INCLINED SURFACES TO BE FLUSH WITH THE PROPOSED FINISH GRADE IN ALL DIRECTIONS.
- ALL LANDSCAPING AND RESTORATION WORK SHALL BE DONE TO THE FULL SATISFACTION OF THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL TEMPORARY UTILITIES NEEDED FOR CONSTRUCTION.
- EROSION AND SEDIMENT CONTROL PROCEDURES SHALL BE FOLLOWED IN A MANNER SO AS TO MINIMIZE EROSION OF THE DISTURBED AREAS AND PREVENT SEDIMENT LEAVING THE SITE. THE CONTRACTOR WILL BE REQUIRED TO INCORPORATE ALL TEMPORARY AND PERMANENT EROSION CONTROL FEATURES INTO THE PROJECT AT THE EARLIEST PRACTICABLE TIME DURING CONSTRUCTION (SEE EROSION CONTROL NOTES ON SHEET EC-1).
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RELOCATION AND THE REPAIR OF ANY EXISTING SEWER SERVICE CONNECTIONS.
- POWER POLES ALONG ROUTES OF CONSTRUCTION ARE TO BE SUPPORTED DURING CONSTRUCTION. CONTRACTOR TO COORDINATE WITH RESPONSIBLE UTILITY COMPANIES.
- PLASTIC SAFETY FENCE SHALL BE INSTALLED AT EDGES OF ALL CONSTRUCTION AREAS.
- EXCEPT AS NOTED ON BID FORM, THE COST TO PROVIDE ALL TRAFFIC CONTROL ACTIVITIES SHALL BE INCLUDED IN THE RATES OF WORK.
- ALL ROADWAY AND DRIVEWAY CUTS AND REPAIRS SHALL BE PER DETAILS ON SHEET GC-2.
- ROUTE CLEARING OPERATIONS SHALL BEGIN NO MORE THAN 7 DAYS BEFORE BEGINNING CONSTRUCTION WORK ON ANY AREA.
- THE CONTRACTOR SHALL PROTECT AND SUPPORT ALL EXISTING UTILITIES WHERE ENCOUNTERED. METHOD OF SUPPORT SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL WHERE PIPE SEPARATION IS LESS THAN 12-INCHES. PERMANENT SUPPORT SHALL BE PROVIDED PER DETAIL 11 ON GC-2.
- ALL TRENCHING AND BACKFILL SHALL BE IN ACCORDANCE WITH DETAIL 14 ON GC-2 AND DETAIL 17 ON GC-3 AND THE SPECIFICATIONS.

**ADDITIONAL CONSTRUCTION NOTES**

- CONSTRUCTION ACTIVITIES MUST CONFORM TO CITY OF ATLANTA'S STANDARDS AND SPECIFICATIONS.
- TREES SHALL NOT BE PLANTED IN THE PERMANENT EASEMENT AREAS.
- NEOPRENE COUPLINGS WITH STAINLESS STEEL BANDS AND SHEAR RINGS ARE REQUIRED FOR JOINING DIFFERENT TYPES OF SANITARY SEWER PIPE MATERIALS. COUPLINGS SHALL BE MANUFACTURED BY FERROCO OR APPROVED EQUAL.
- COMPACTION OF THE BACKFILL OF ALL TRENCHES SHALL BE COMPACTED TO THE DENSITY OF 95% OF THE THEORETICAL MAXIMUM DENSITY UNLESS OTHERWISE SPECIFIED OR INDICATED. BACKFILL MATERIAL SHALL BE FREE FROM ROOTS, STUMPS, OR OTHER FOREIGN DEBRIS, AND SHALL BE PLACED AT OR NEAR OPTIMUM MOISTURE.
- FIELD VERIFY LOCATION AND INVERT ELEVATIONS OF WASTEWATER PIPE FOR CONNECTION TO EXISTING WASTEWATER SYSTEMS.
- FOR ALL CONSTRUCTION ALONG AND/OR ACROSS WATERWAY BANKS, PROTECTION AND STABILIZATION AS SHOWN ON DRAWING EC-2 SHALL BE REQUIRED.
- ALL SILT BARRIERS MUST BE PLACED AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL BE DONE UNTIL SILT BARRIER INSTALLATION AND DETENTION FACILITIES ARE CONSTRUCTED. SILT BARRIERS TO BE PLACED AS SHOWN AND/OR AS DIRECTED BY PROJECT ENGINEER AND/OR CITY OF ATLANTA INSPECTOR.
- IF APPLICABLE, COMPLY WITH TRAFFIC CONTROL REQUIREMENTS AS FOLLOWS, SEE SPECIFICATION SECTION 01500 - 1.11 FOR ADDITIONAL REQUIREMENTS:
  - SIGNING, STRIPING, MARKING, AND HIGH LEVEL WARNING DEVICES TO BE PLACED AS SHOWN AND/OR DIRECTED BY THE CITY OF ATLANTA TRAFFIC ENGINEER AND/OR INSPECTOR. THIS TRAFFIC CONTROL PLAN IS SUBJECT TO CHANGE BY THE ENGINEER.
  - WARNING DEVICES SHALL BE PLACED PRIOR TO THE COMMENCEMENT OF ANY ROAD IMPROVEMENT WORK AND SHALL REMAIN IN PLACE UNTIL THE CONCLUSION OF ALL SIGNING AND STRIPING WORK.
  - ALL WARNING DEVICES SHALL INCLUDE WARNING LIGHTS ON EVERY OTHER DEVICE, AND SHALL CONFORM WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) STANDARDS AND CITY OF ATLANTA FOR COLOR, SIZE, REFLECTIVITY, HEIGHT, AND PLACEMENT.
  - SPACING OF WARNING DEVICES IN FEET SHALL BE EQUAL TO THE POSTED SPEED OF THE ROAD IN MPH. (i.e., 30 FOOT SPACING FOR 30 MPH SPEED LIMIT)
  - ALL SIGNS SHALL CONFORM WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) STANDARDS AND CITY OF ATLANTA FOR COLOR, SIZE, REFLECTIVITY, HEIGHT, AND PLACEMENT.
  - STRIPING (WHITE & YELLOW) AND ARROW MARKINGS SHALL BE APPLIED USING CITY OF ATLANTA OR GEORGIA DOT STANDARD THERMOPLASTIC.
  - WHEN NECESSARY, EXISTING STRIPING SHALL BE REMOVED BY GRINDING, UNLESS SPECIFIED BY THE CITY OF ATLANTA TRAFFIC ENGINEER.
  - ALL SIGNS MUST BE INSTALLED CONCURRENTLY WITH THE PERFORMANCE OF THE STRIPING WORK.
  - CONTACT THE CITY OF ATLANTA TRAFFIC ENGINEER (404-330-6501) ONE WEEK PRIOR TO COMMENCEMENT OF ANY STRIPING WORK.
  - COORDINATE ROAD CLOSINGS OR DETOURS WITH GEORGIA DOT OR DEPARTMENT OF PUBLIC WORKS TRAFFIC SECTION, AND ANY CITY OF ATLANTA OR OTHER EMERGENCY SERVICES THAT ARE REQUIRED.
- CONTRACTOR SHALL ONLY USE PERPENDICULAR CROSSINGS AT STREAMS AND CREEKS UNLESS AN ENCROACHMENT HAS BEEN INDICATED ON PLANS.
- CONTRACTOR SHALL NOT CLEAR BEYOND CONSTRUCTION LIMITS SPECIFIED.
- AREAS DISTURBED DURING CONSTRUCTION THAT WILL RECEIVE NORMAL RUNOFF AND STREAM WATER RELATED FLOWS SHALL BE RIP-RAPPED OR OTHERWISE STABILIZED AS DIRECTED BY ENGINEER.
- THE ISSUANCE OF A LAND DISTURBANCE PERMIT DOES NOT IN ANY WAY SUGGEST THAT ALL OTHER REQUIREMENTS FOR THE LEGAL OR APPROPRIATE OPERATIONS FOR THIS CONSTRUCTION ACTIVITY, WHICH MAY REQUIRE ADDITIONAL PERMITTING, HAVE BEEN MET. THE ONUS IS ON THE CONTRACTOR TO DISCOVER WHAT ADDITIONAL PERMITTING OR APPROVALS MAY BE NECESSARY TO OPERATE IN AN APPROPRIATE MANNER. PLAN APPROVAL OR PERMIT ISSUANCE DOES NOT ABSOLVE THE APPLICANT FROM COMPLYING WITH ALL APPLICABLE LAWS, POLICIES, STANDARDS, OR OTHER PERMITS WHICH MAY BE REQUIRED FOR THIS PROJECT.

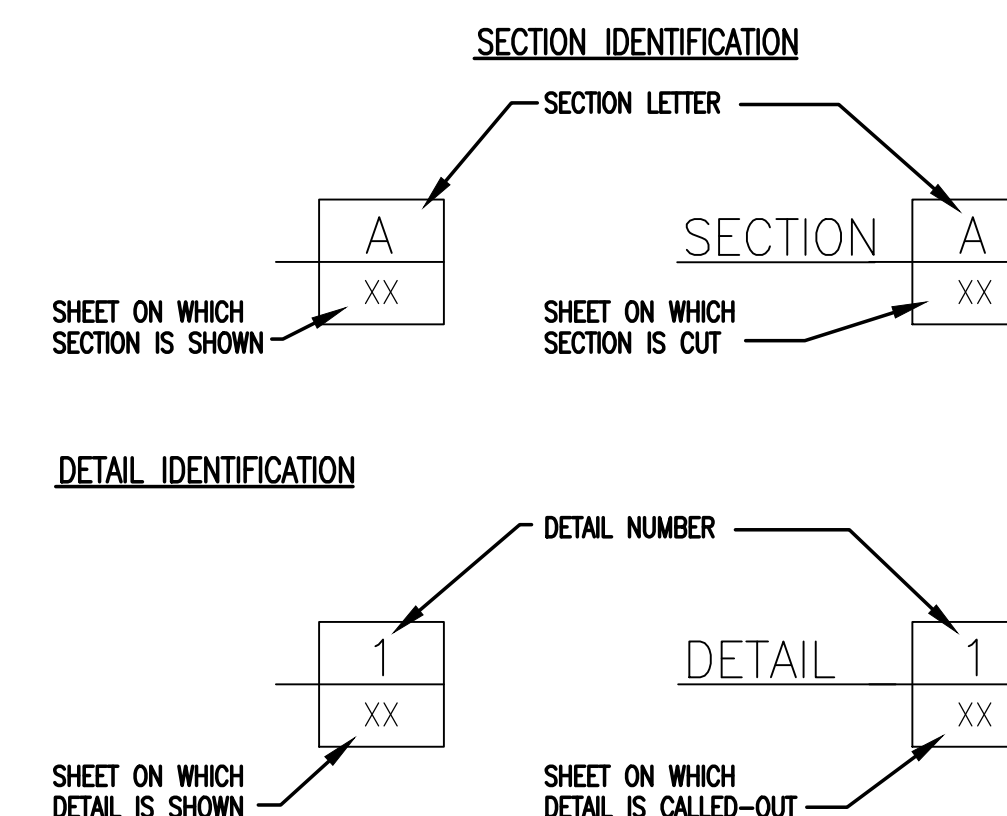
**MANHOLE NOTES**

- BEFORE ORDERING NEW MANHOLES CONTRACTOR SHALL PERFORM A SURVEY ON EXISTING MANHOLES. CONTRACTOR SHALL PREPARE AN INVENTORY FROM THIS SURVEY SHOWING ALL COMPONENTS OF EXISTING MANHOLES INCLUDING DIMENSIONS AND SIZES. THIS INVENTORY SHALL BE THE BASIS FROM WHICH THE CONTRACTOR WILL ORDER MATERIAL. THE INVENTORY AND MATERIAL SCHEDULE SHALL BE SUBMITTED WITH THE SHOP DRAWINGS TO THE ENGINEER FOR REVIEW. HOWEVER, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ORDER THE CORRECT MATERIAL SIZES AND LENGTHS AND NOT THE ENGINEER.
- CONTRACTOR SHALL SELECT MANHOLE RISER AND BASES THAT MATCH THE EXISTING CONES SO JOINTS SEAL PROPERLY.

**FLOWMETER NOTES**

- SEVERAL FLOW METERS ARE INSTALLED IN MANHOLES WHERE CONSTRUCTION WORK WILL BE DONE. WHEN THE CONTRACTOR ENCOUNTERS FLOW METERS WHERE HE IS REQUIRED TO DO WORK, HE WILL NOTIFY THE ENGINEER AT LEAST TWO DAYS PRIOR TO REQUIRING THE METER TO BE REMOVED. REMOVAL WILL BE DONE BY OTHERS. CONTRACTOR WILL NOT ATTEMPT REMOVAL OF FLOW METERS.

**SYMBOLS**



**STANDARD ABBREVIATIONS**

APPROX. ASPH AVE	APPROXIMATE ASPHALT AVENUE	LF	LINEAR FOOT
BLDG	BUILDING	MAX MH MIN	MAXIMUM MANHOLE MINIMUM
CB	CATCH BASIN	N	NORTH
CI	CAST IRON	NTS	NOT TO SCALE
CL	CENTER LINE	OC	ON CENTER
CONC	CONCRETE	OD	OUTSIDE DIAMETER
CMP	CORRUGATED METAL PIPE	PP	POWER POLE
CP	CONCRETE PIPE	PVC	POLYVINYL CHLORIDE
CULV	CULVERT	R/W	RIGHT OF WAY
DET	DETAIL	RCP	REINFORCED CONCRETE PIPE
DI	DUCTILE IRON	RD	ROAD
DIA	DIAMETER	RR	RAILROAD
DIP	DUCTILE IRON PIPE	RR	RAILROAD
DMH	DROP MANHOLE	SPEC STA	SPECIFICATION STATION
DWG	DRAWING	TYP	TYPICAL
E	EAST	UG	UNDERGROUND
EA	EACH	VCP	VITRIFIED CLAY PIPE
EL or ELEV	ELEVATION	VF	VERTICAL FOOT
EOP	EDGE OF PAVEMENT	WD	WOOD
EXIST	EXISTING		
FH	FIRE HYDRANT		
GPS	GROUND POSITIONING SYSTEM		
HDPE	HIGH DENSITY POLYETHYLENE		
HW	HEAD WALL		
ID	INSIDE DIAMETER		
INV	INVERT		
IPF	IRON PIN FOUND		

**PIPELINE INSTALLATION AND BEDDING NOTES**

- ROCK EXCAVATION WILL BE MEASURED SEPARATELY FOR PAYMENT.
- UNLESS OTHERWISE REQUIRED, THE WORK OF OPEN CUT INSTALLATION OF PIPE LINES SHALL BE DONE IN OPEN TRENCHES AND IN A MANNER TO PROTECT PIPE LINES, SEWERS, OR STRUCTURES FROM UNUSUAL STRESSES.
- IN NO CASE SHALL THE DEFLECTION IN THE PIPELINE JOINTS EXCEED 75% OF THE MAXIMUM DEFLECTION RECOMMENDED BY THE PIPE MANUFACTURER UNLESS APPROVED IN WRITING BY THE ENGINEER.

**WETLAND PRESERVATION NOTES**

- CONTRACTOR SHALL MINIMIZE CLEARED AREA WITHIN WETLAND.
- CONTRACTOR MUST RETURN ALL WORK AREAS TO PRE CONSTRUCTION CONTOURS. EXCESS MATERIAL MUST BE REMOVED UPON COMPLETION OF WORK.
- ANY EXPOSED SLOPES AND STREAM BANKS MUST BE STABILIZED IMMEDIATELY UPON COMPLETION OF PIPELINE(S).

**OPEN CUT REPLACEMENT (OCR)/HORIZONTAL DIRECTIONAL DRILLING (HDD)/CURED-IN-PLACE PIPE (CIPP)/ PIPE BURSTING (PB) NOTES**

- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING UNINTERRUPTED SEWER SERVICES BY USING BYPASS PUMPING, TANKERING, FLOW DIVERSION OR OTHER APPLICABLE METHODS APPROVED BY THE ENGINEER SUCH THAT SPILLAGE/OVERFLOWS DO NOT OCCUR.
- CONTRACTOR SHALL RESTRICT ALL OCR/HDD/CIPP/PB CONSTRUCTION & CONSTRUCTION RELATED ACTIVITIES WITHIN EASEMENTS, RIGHT OF WAY OR TEMPORARY WORKING AREAS CONTRACTOR HAS LEGALLY OBTAINED.
- CONTRACTOR SHALL STRING HDPE PIPE SO AS TO MINIMIZE DAMAGE TO TREES, LANDSCAPE AND ALL OTHER SIMILAR FEATURES.
- CONTRACTOR IS RESPONSIBLE FOR RECTIFYING ALL OR ANY DAMAGE CREATED BY OCR/HDD/CIPP OR PB RELATED CONSTRUCTION ACTIVITIES.
- ENGINEER'S DISCRETION WILL BE EXERCISED TO RELOCATE SANITARY SEWER PIPING AROUND BUILDINGS AND/OR TERMINATE OCR/HDD/CIPP OR PB RELATED CONSTRUCTION ACTIVITIES PRIOR TO BUILDINGS WITH A TERMINATING ACCESS /MAINTENANCE STRUCTURE.
- CONTRACTOR SHALL CONFIRM POSITION OF MAINLINES AND SERVICE CONNECTIONS TO SEWER RELATIVE TO BUILDINGS.
- CONTRACTOR SHALL CONFIRM LOCATION OF BUILDING SEWER BY DYE OR SMOKE TESTING SERVICE CONNECTIONS AND/OR MAIN SEWER. CONTRACTOR MAY BE REQUIRED AND SHALL ALLOW FOR COORDINATION WITH DYE OR SMOKE TESTING SERVICES PERFORMED BY SEPARATE CONTRACTOR TO THE CITY.
- WHERE PIPELINES ARE UNDER OR LOCATED CLOSE TO BUILDINGS OR OTHER STRUCTURES, INCLUDING BUT NOT LIMITED TO SWIMMING POOLS, OCR/HDD/CIPP OR PB ACTIVITIES WILL ONLY BE ALLOWED TO PROCEED FOLLOWING SPECIFIC APPROVAL BY THE ENGINEER.
- UNLESS OTHERWISE DIRECTED BY THE ENGINEER FOR PIPE BURSTING OF PIPES LESS THAN 18-INCH DIAMETER, FOUNDATIONS WITHIN 25-FEET OF THE PIPE BEING BURST SHALL RECEIVE FULL SEISMOGRAPHIC MONITORING INCLUDING THE TWO MOST ADJACENT CORNERS OF BUILDING(S) IN PROXIMITY. NO BURSTING WILL BE ALLOWED UNTIL THE MONITORING INSTRUMENTS ARE IN PLACE AND THE MONITORING PLAN HAS BEEN ACCEPTED BY THE ENGINEER.
- UNLESS OTHERWISE DIRECTED BY THE ENGINEER FOR PIPE BURSTING OF PIPES GREATER THAN OR EQUAL TO 18-INCH DIAMETER, FOUNDATIONS WITHIN 50-FEET OF THE PIPE BEING BURST SHALL RECEIVE FULL SEISMOGRAPHIC MONITORING INCLUDING THE TWO MOST ADJACENT CORNERS OF THE BUILDING(S) IN PROXIMITY. NO BURSTING WILL BE ALLOWED UNTIL THE MONITORING INSTRUMENTS ARE IN PLACE AND THE MONITORING PLAN HAS BEEN ACCEPTED BY THE ENGINEER.
- IF COVER TO HDPE PIPE IS LESS THAN FOUR FEET, THE CONTRACTOR MAY BE REQUIRED TO INSTALL ANTI-FLOTATION COLLARS. ENGINEER WILL DETERMINE IF FLOTATION COLLARS.
- CONTRACTOR IS TO INSTALL CLEANOUTS ON ALL LATERAL SERVICES BEING RENEWED. CLEANOUTS TO BE CONSTRUCTED PER DETAIL 25A ON GC-4 AND LOCATED IMMEDIATELY INSIDE THE EASEMENT OR ROW BOUNDARY.

**SURVEYING NOTES**

- CONTRACTOR IS TO MAKE EVERY EFFORT TO PRESERVE ANY SURVEY MONUMENTS OR BENCH MARKS WHICH EXIST ON THE PROJECT AT THE TIME OF CONTRACT AWARD. THE CONTRACTOR SHALL FURNISH PERSONNEL FULLY QUALIFIED AND CAPABLE OF STAKING THE PROPOSED PIPELINE ALIGNMENT SHOWN ON THE DRAWINGS. ANY SURVEY MARKERS DISTURBED BY THE CONTRACTOR SHALL BE RESTORED BY A QUALIFIED SURVEYOR WITH ALL COST OF RESTORATION BORNE BY THE CONTRACTOR.
- PROPERTY LINE LOCATIONS ARE APPROXIMATE AND LAND OWNERS TAKEN FROM CITY OF ATLANTA RECORDS.

The original of this document was signed and sealed by Reginald Crayton, registration number 037875 on 05/06/2016.

THIS REPRODUCTION IS NOT A CERTIFIED DOCUMENT



CITY OF ATLANTA

SEWER REHABILITATION

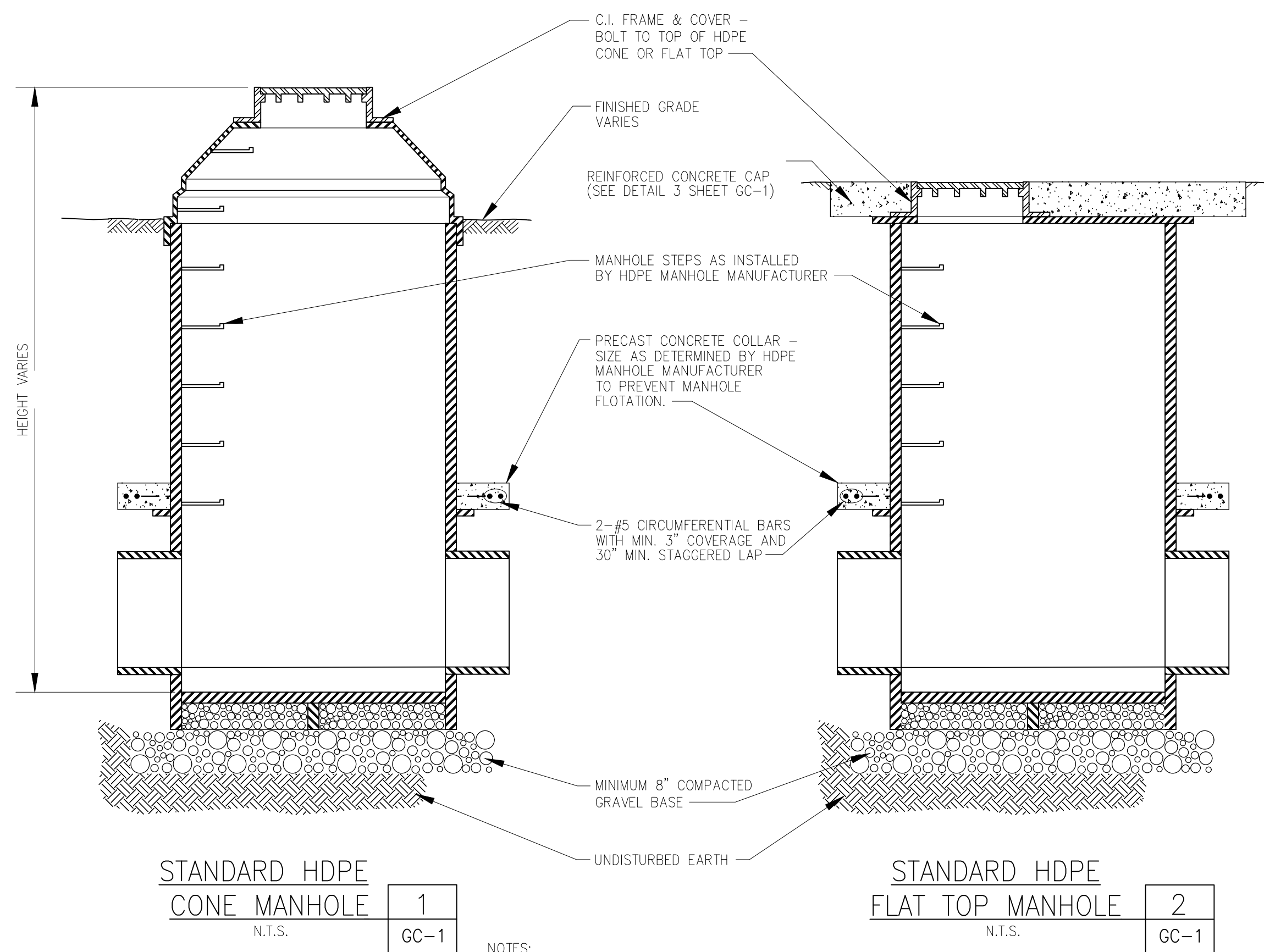
GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS

SHEET

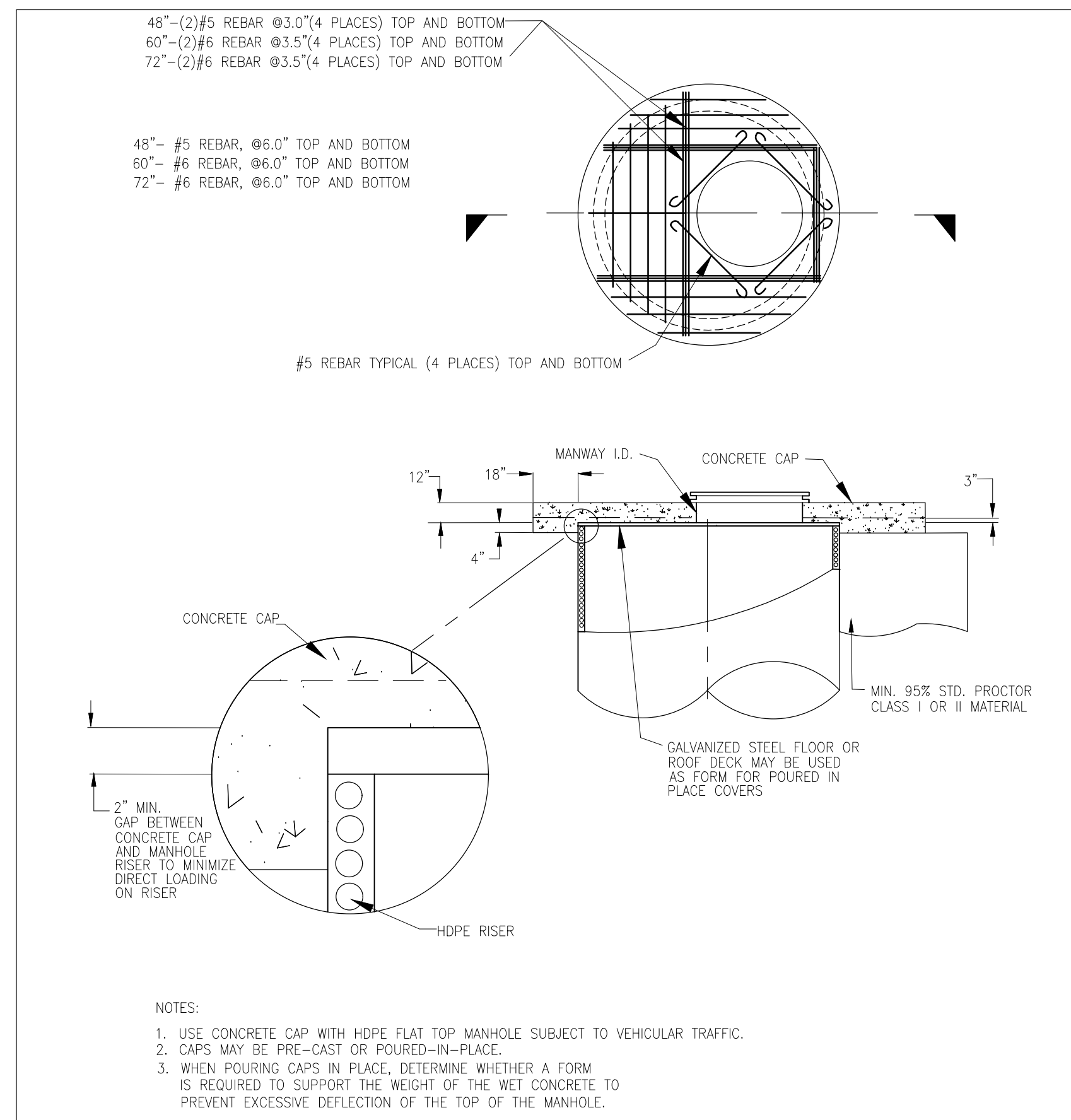
G-4

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REV DATE	BY	DESCRIPTION

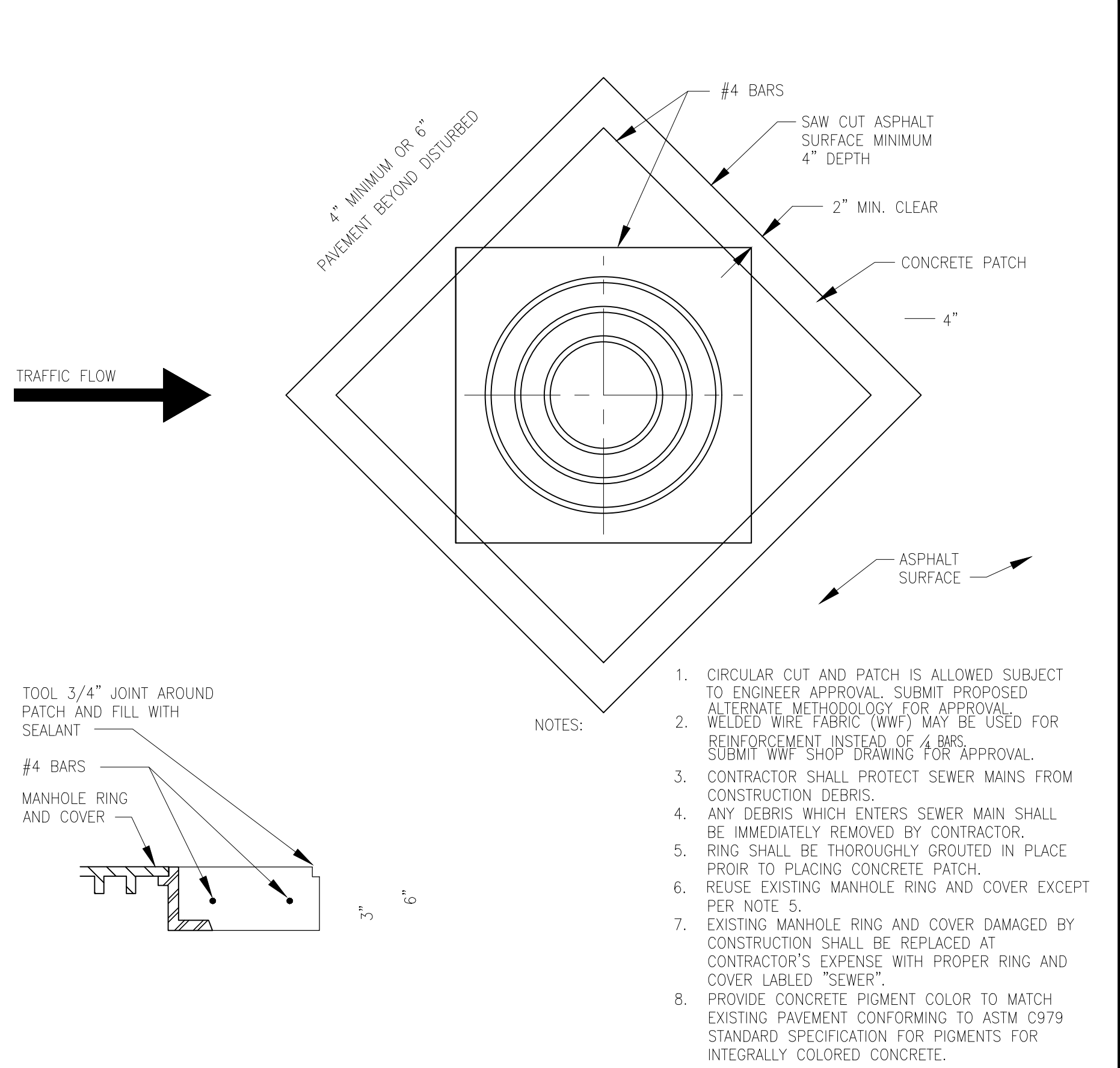




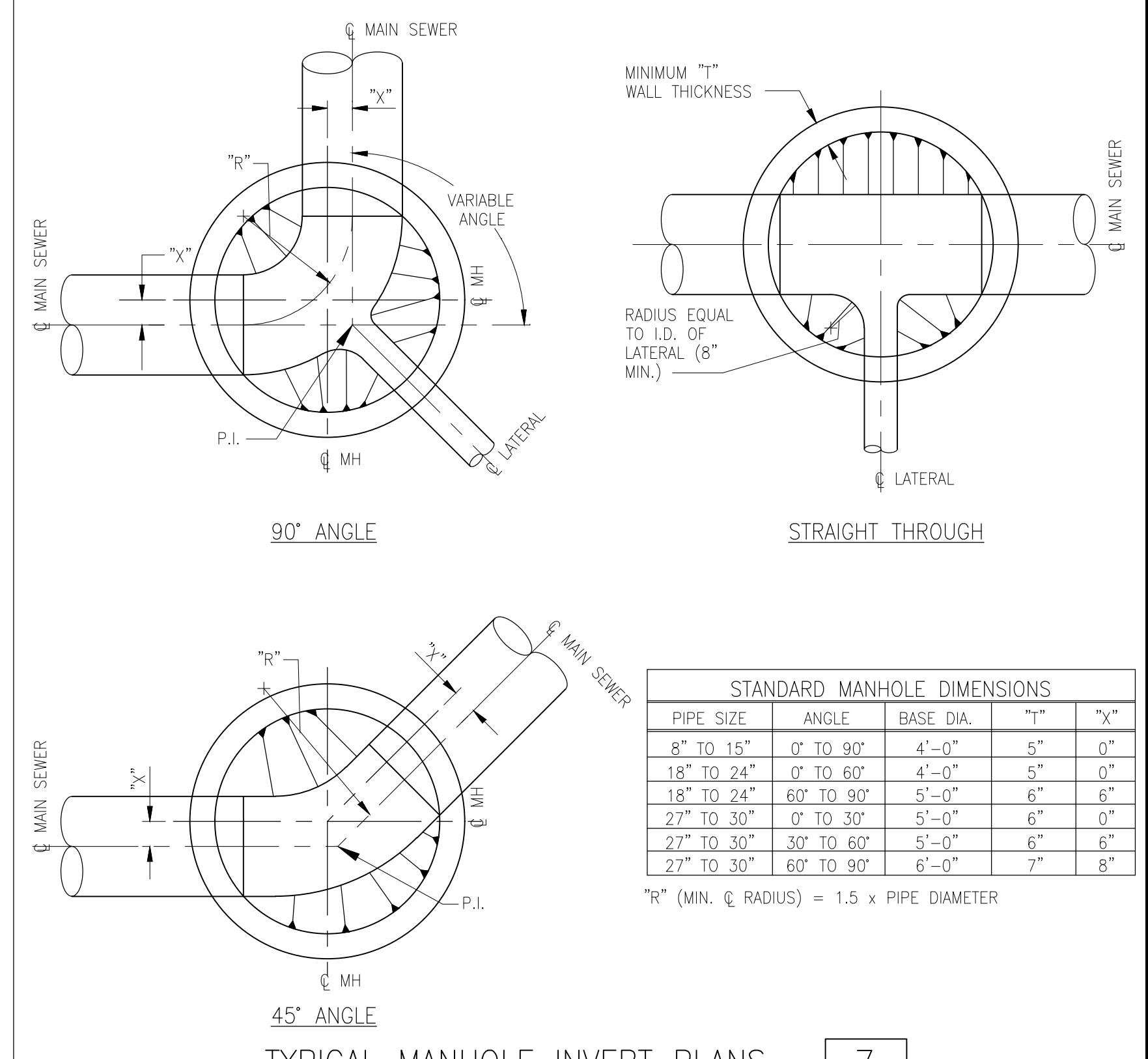
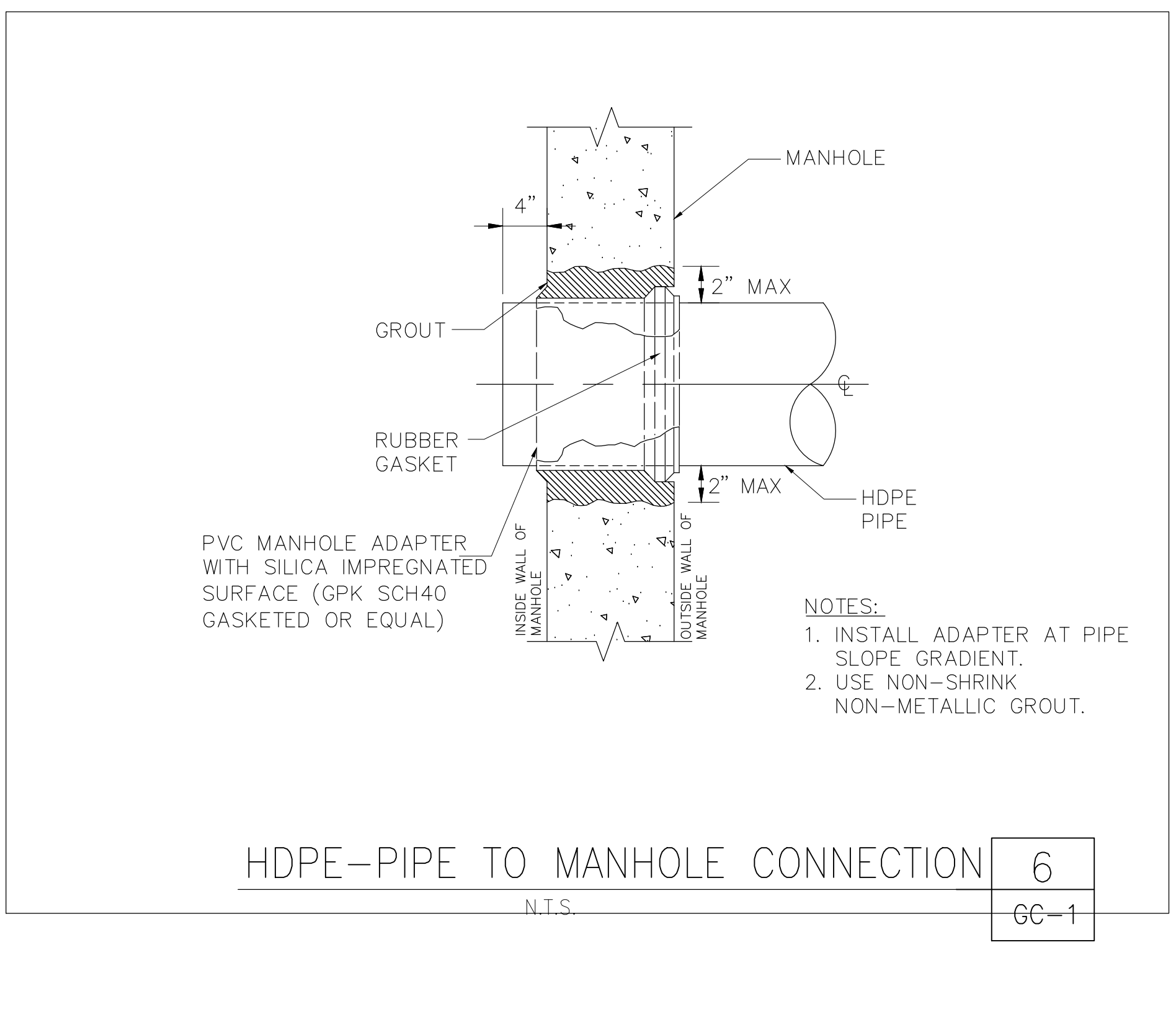
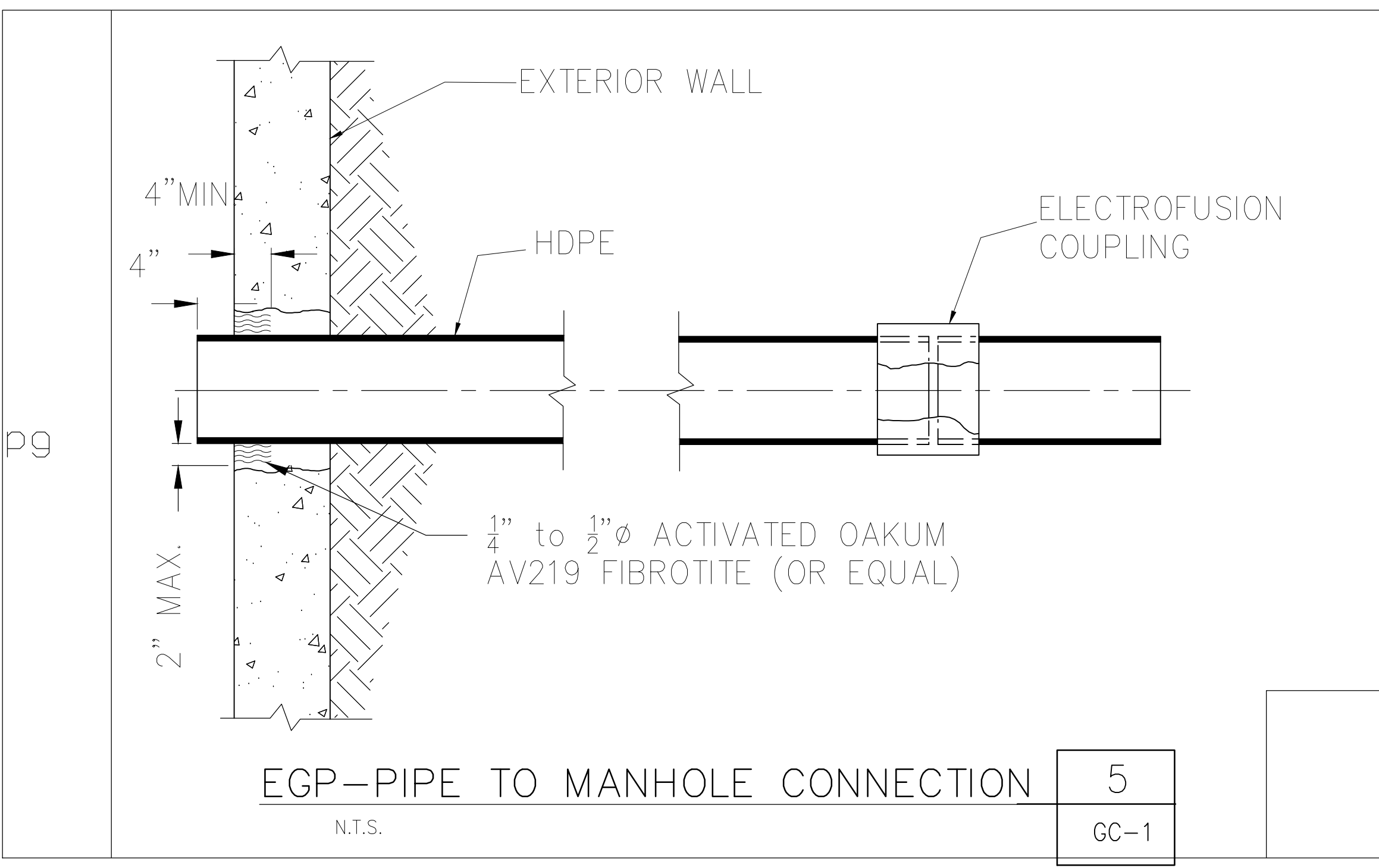
- NOTES:
- HEIGHT OF MANHOLE SHALL BE FIELD VERIFIED PRIOR TO ORDERING. CONTRACTOR SHALL VERIFY TOP OF RIM ELEVATION WITH ACTUAL FIELD CONDITIONS.
  - SHOP DRAWING SUBMITTAL SHALL INCLUDE SPECIFICATIONS OF MANHOLES, ALL DIMENSIONS (INCLUDING HEIGHT), CONCRETE CAP COLLAR WITH DESIGN CALCULATIONS AND ALL APPURTENANCES.
  - WHERE HDPE MANHOLES ARE SUBJECT TO VEHICULAR TRAFFIC, INSTALL REINFORCED CONCRETE CAP TO DISPERSE LIVE LOAD INTO SOIL PER MANUFACTURER'S RECOMMENDATIONS
  - PROVIDE PRE-FABRICATED STEPS IN MANHOLE CONFORMING TO OSHA DIMENSIONAL REQUIREMENTS.



**REINFORCED CONCRETE MANHOLE CAP** 3  
N.T.S. GC-1



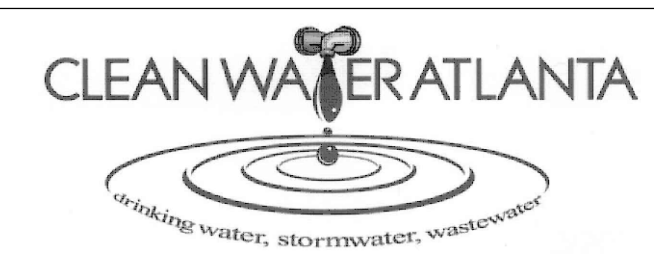
**PAVEMENT PATCH FOR MANHOLE CONSTRUCTION SUBJECT TO VEHICULAR TRAFFIC** 4  
N.T.S. GC-1



REV	DATE	BY	DESCRIPTION
2	2-9-09	EW	REVISED DETAILS 3-6
1	1-27-09	EW	MODIFIED DETAIL 5

SCALE	WARNING	DESIGNED
N.T.S.	IF THIS BAR DOES NOT EQUAL 1" THEN DRAWING IS NOT TO SCALE	

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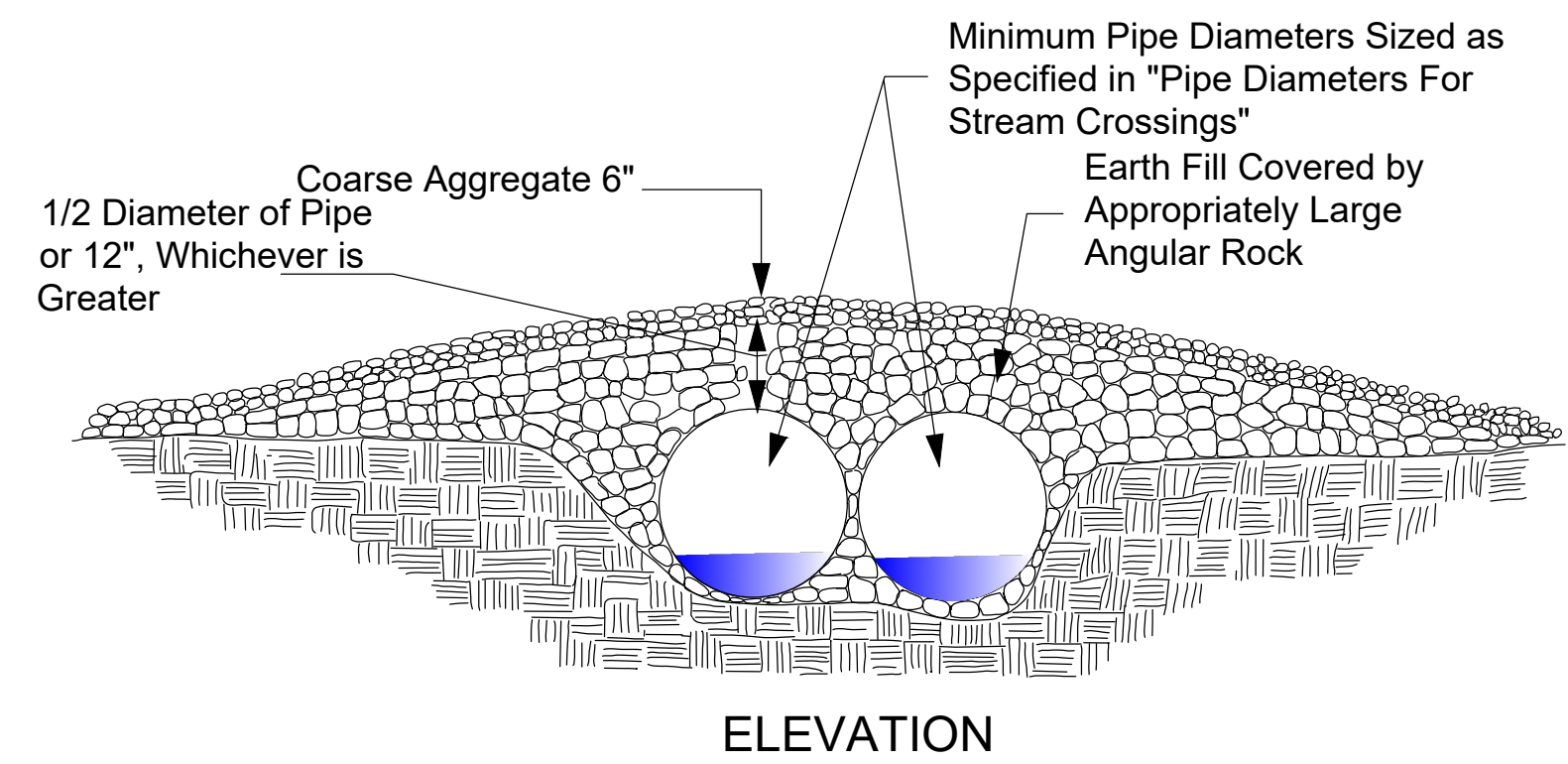


**CITY OF ATLANTA**

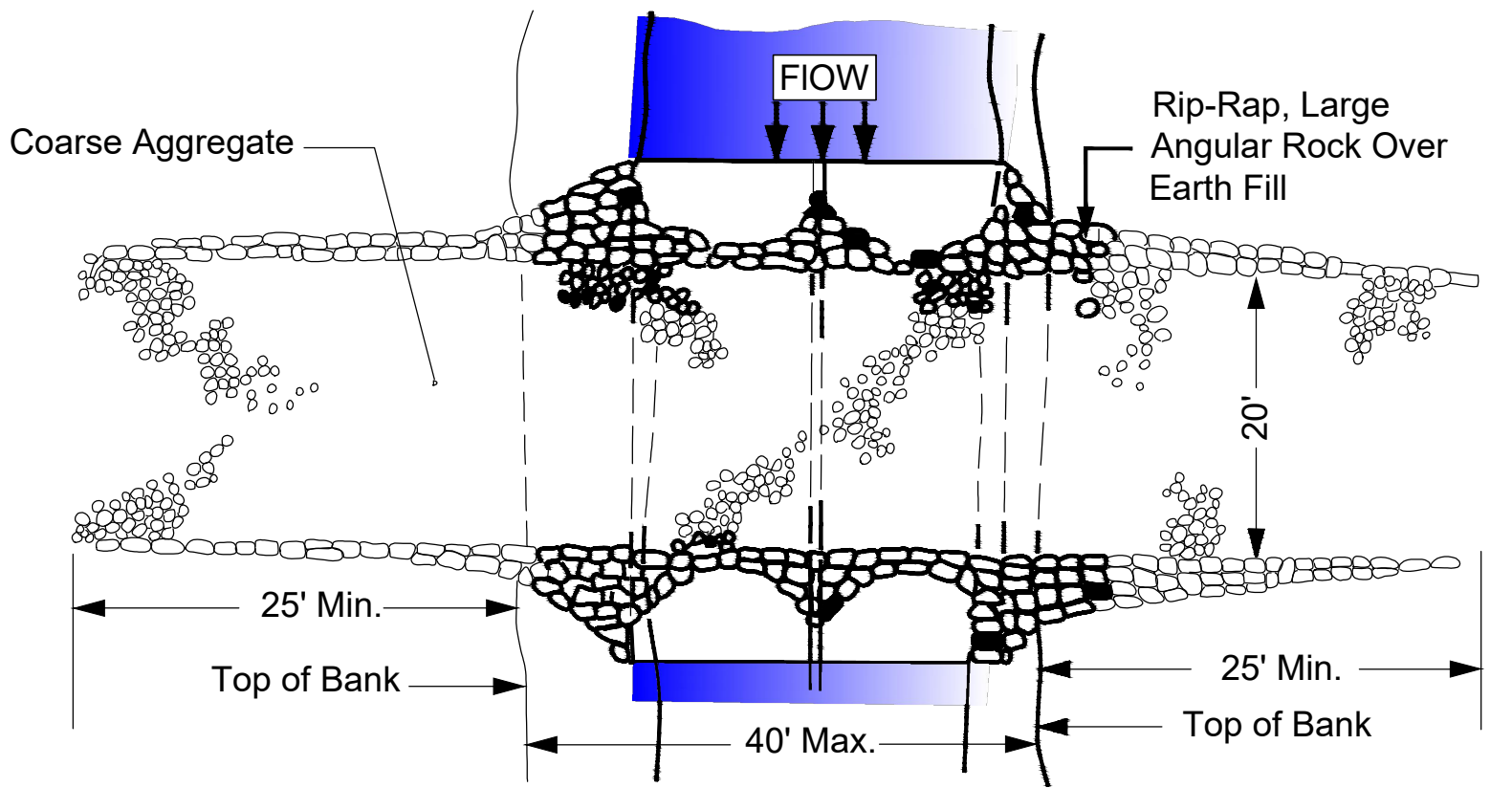
SMALL DIAMETER SEWER REHABILITATION FIND AND FIX ANNUAL CONTRACT  
SUPPLEMENTAL DETAILS - 1

SHEET  
GC-1



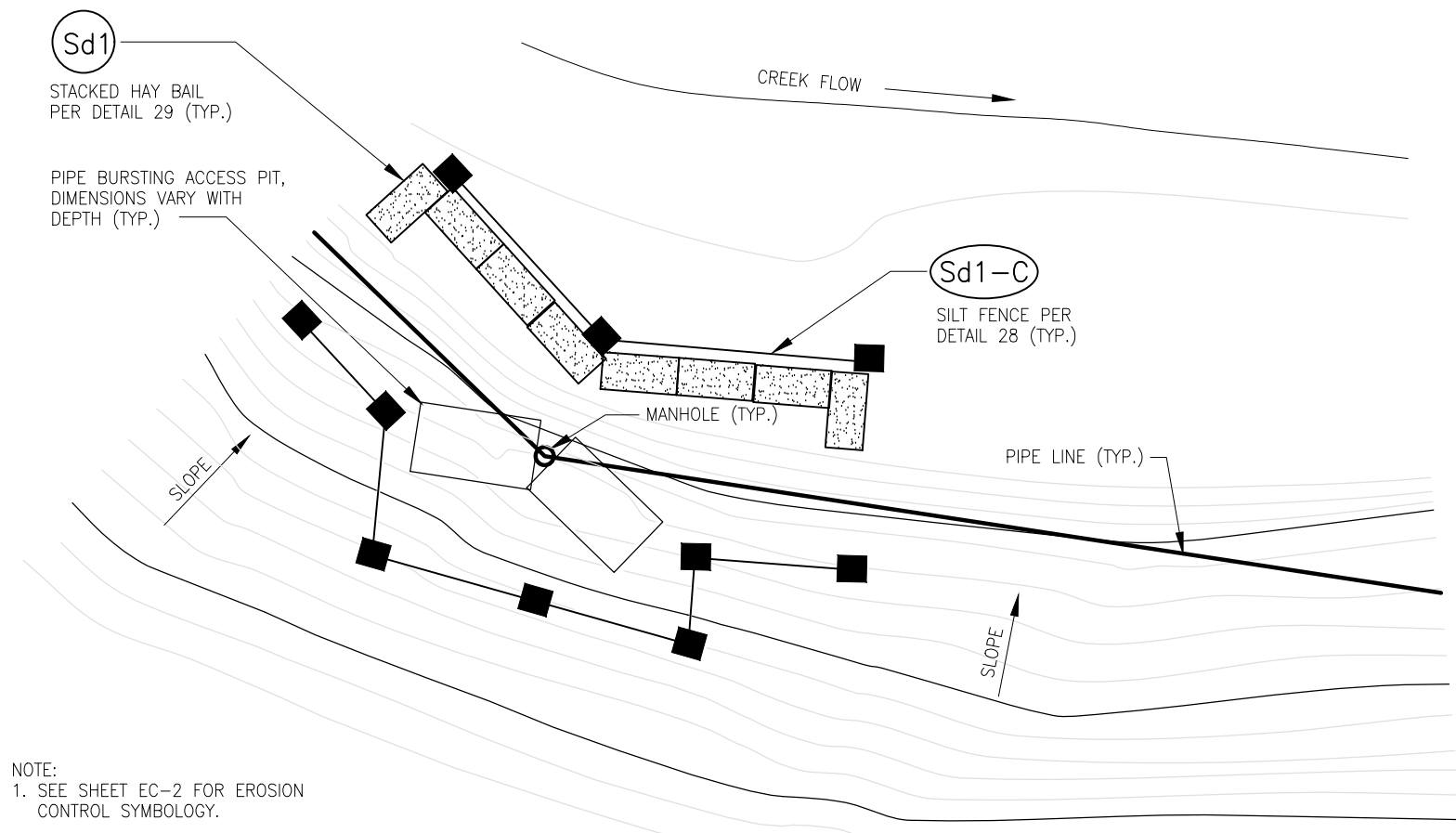


ELEVATION

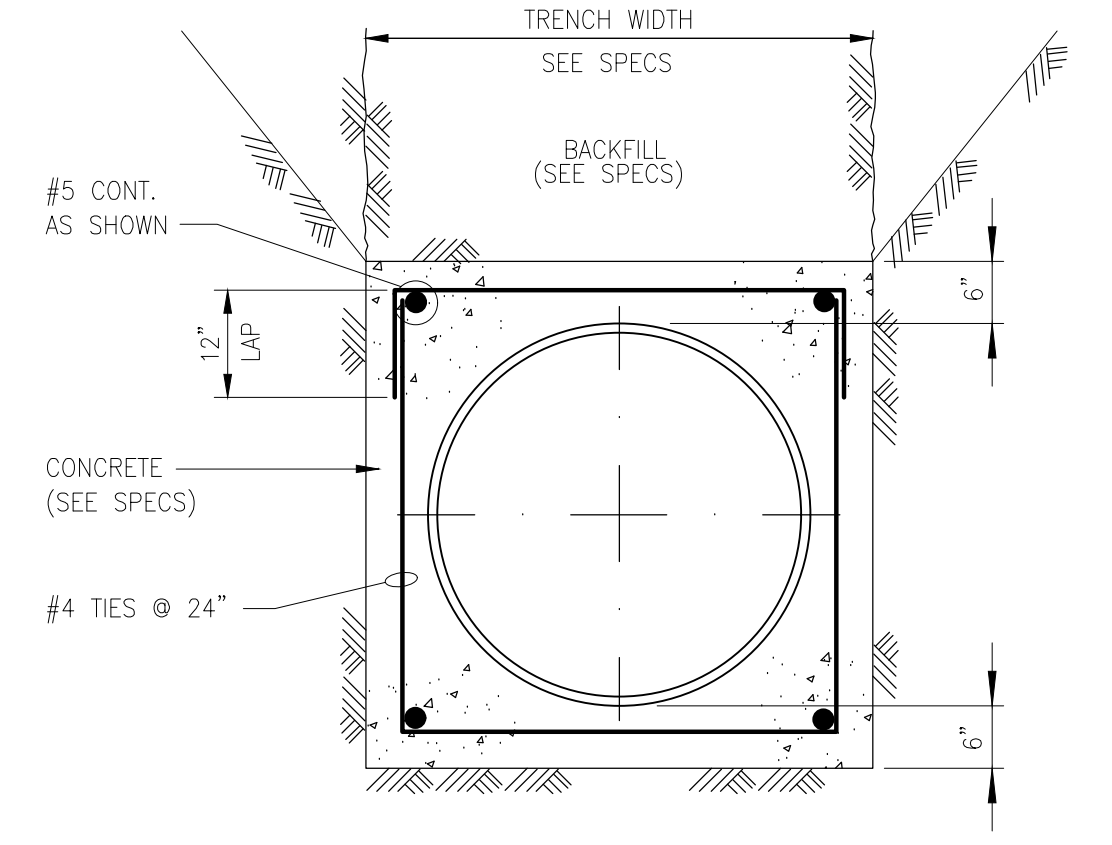


PLAN

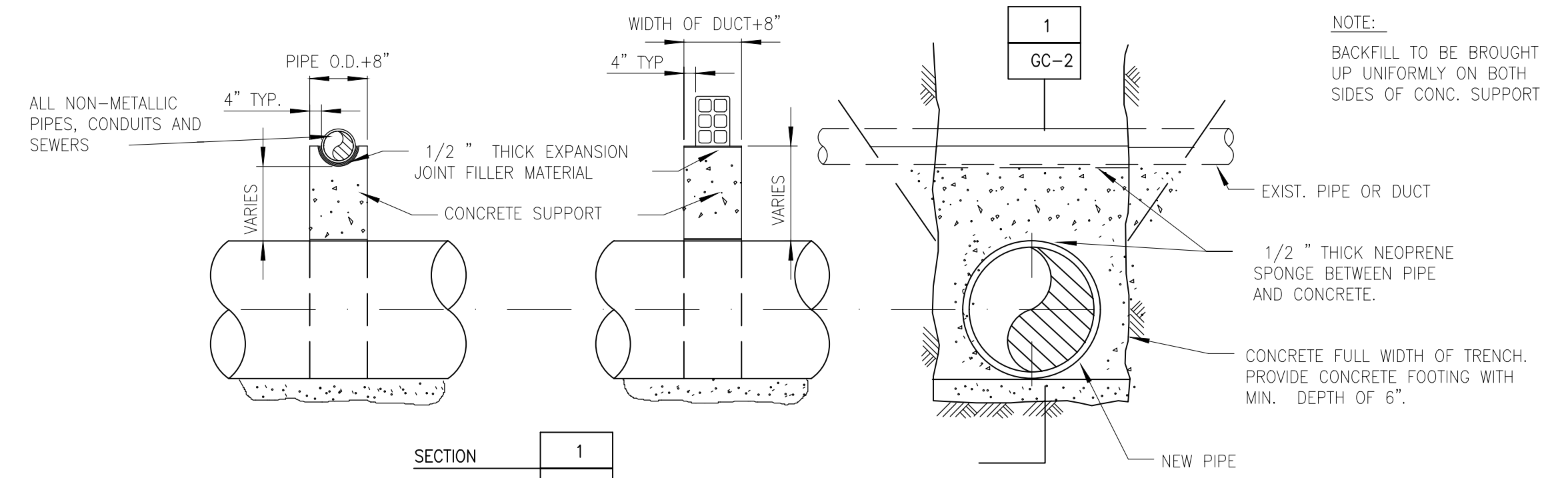
**8**  
Sr TEMPORARY STREAM CROSSING  
N.T.S. GC-2



**9**  
TYPICAL PIPEBURSTING ACCESS PIT EROSION PROTECTION  
N.T.S. GC-2

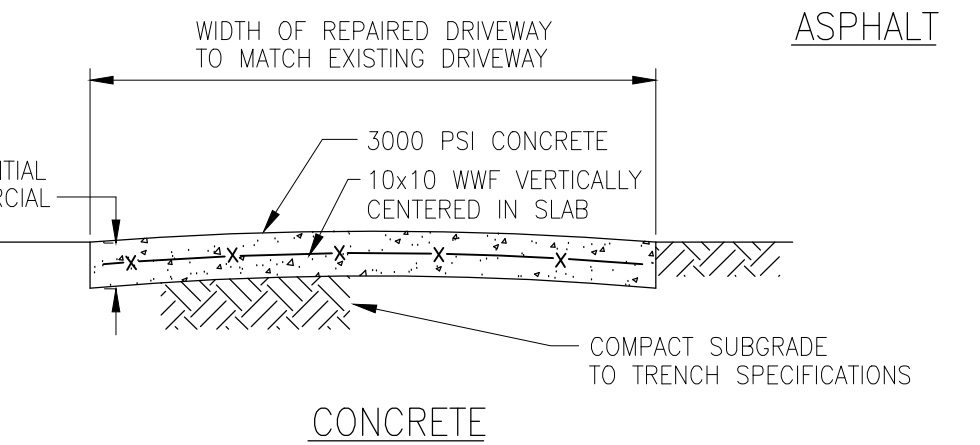
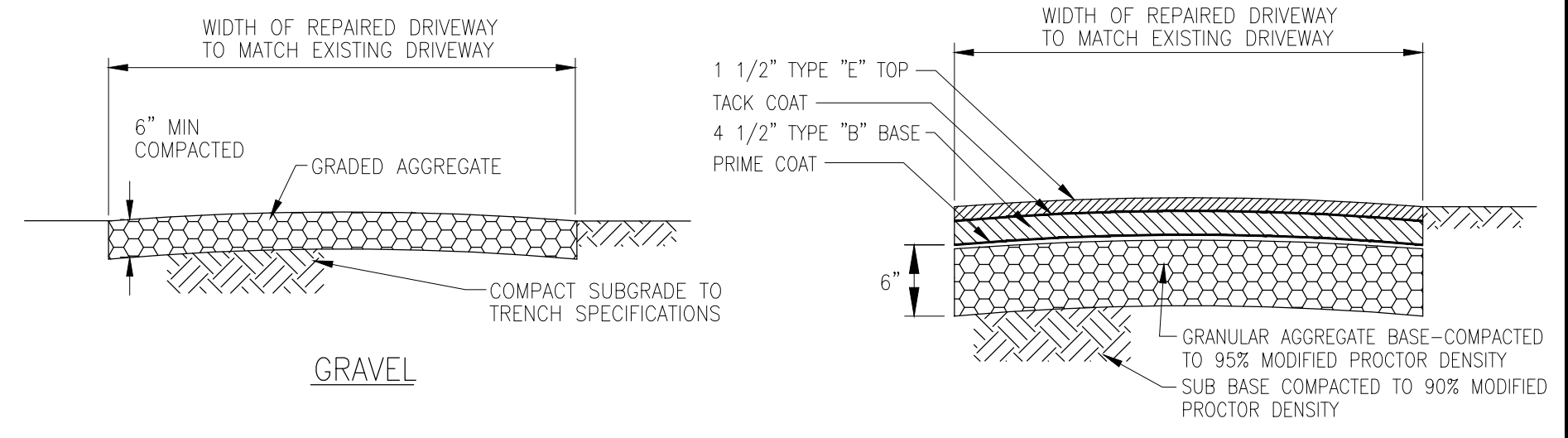


**10**  
CONCRETE ENCASEMENT  
N.T.S. GC-2

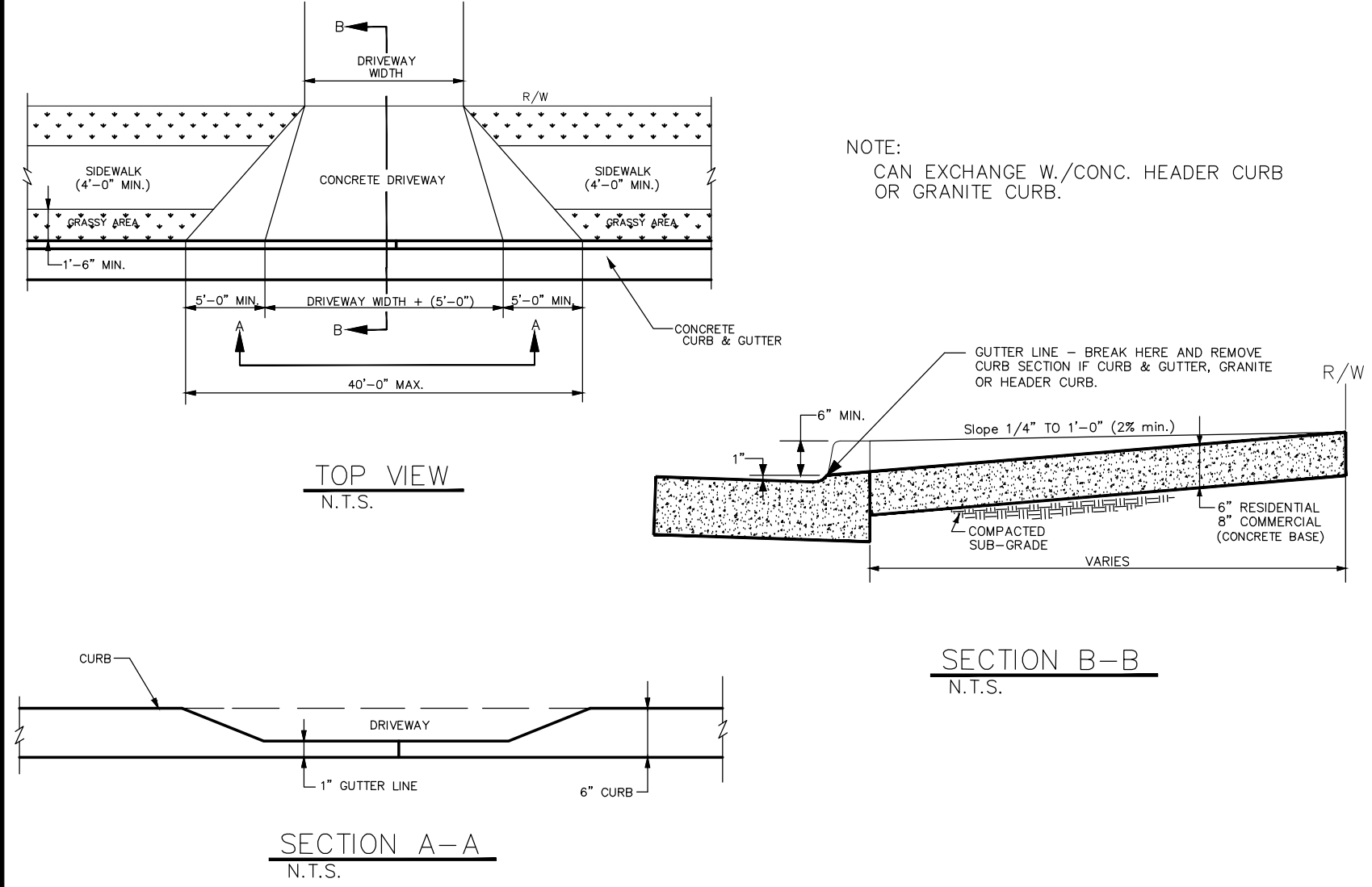


- NOTES:
- UNDERGROUND UTILITY SUPPORTS ARE TO BE PROVIDED WHEN MINIMUM CLEARANCE OF 12 INCHES CANNOT BE PROVIDED.
  - EXISTING PIPE OR DUCT SHALL BE FIRMLY SUPPORTED DURING INSTALLATION OF NEW PIPE AND SUPPORT.

**11**  
UNDERGROUND UTILITY SUPPORT  
N.T.S. GC-2



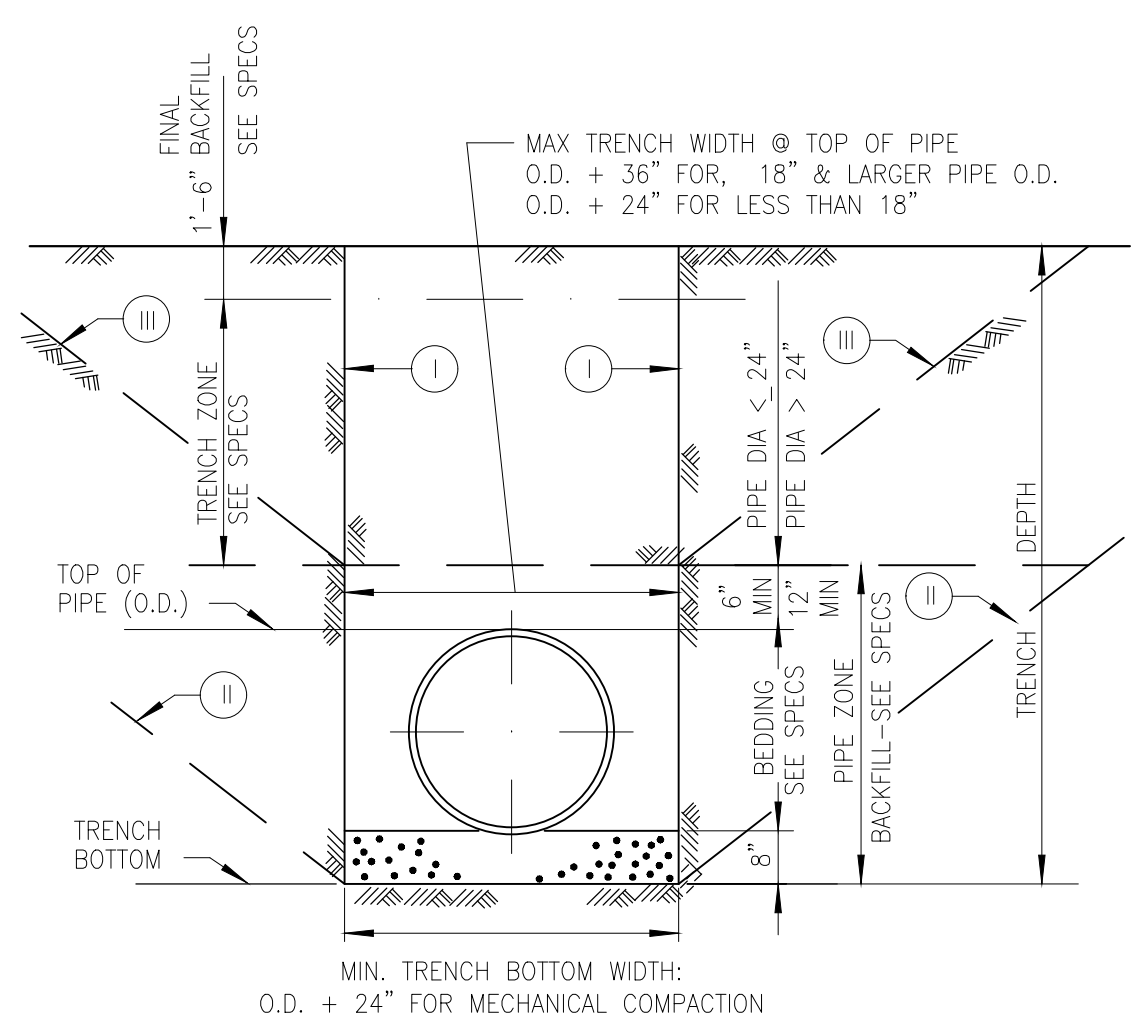
**12**  
TYPICAL DRIVEWAY REPAIR  
N.T.S. GC-2



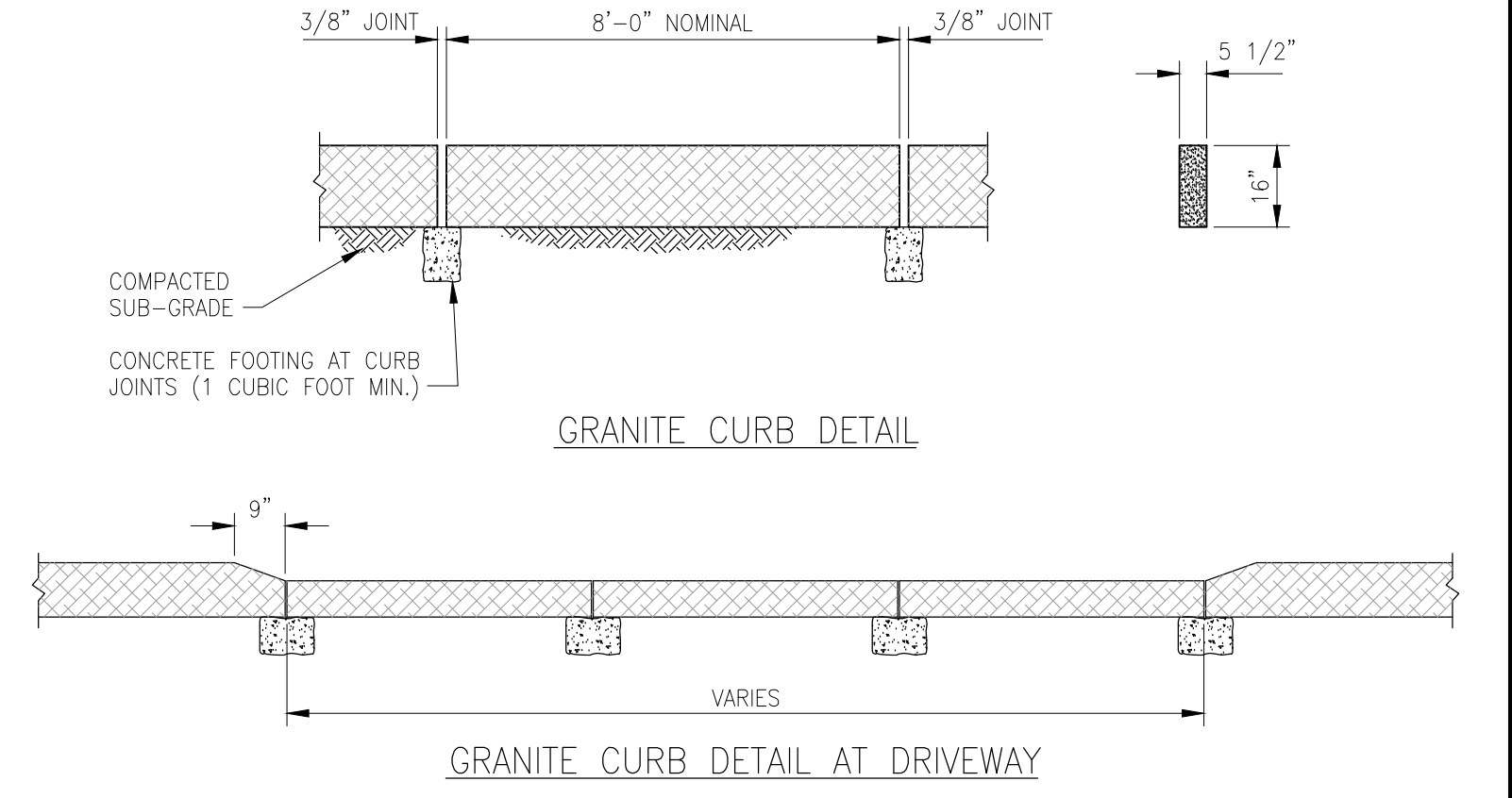
- NOTES:
- SIDEWALK TO BE SCRIBED WITH TRANSVERSE CONTROL JOINTS IN SQUARES EQUAL TO SIDEWALK WIDTH BUT NOT TO EXCEED 10 FEET.
  - CONCRETE SHALL BE TYPE B 3,000 P.S.I. MIN. STRENGTH.
  - INSTALL TRANSVERSE EXPANSION JOINTS NO MORE THAN 100 FEET APART.
  - PREFORMED BITUMINOUS EXPANSION MATERIAL SHALL BE PLACED BETWEEN ALL FIXED OBJECTS (EXCEPT CURB) AND THE NEW CONCRETE SIDEWALK.
  - ALL CONCRETE WORK SHALL BE PER CITY OF ATLANTA STANDARD SPECIFICATIONS FOR CONSTRUCTION.
  - 1/4 INCH TOOLED JOINT BETWEEN CURB AND SIDEWALK.

**13**  
TYPICAL DRIVEWAY AND SIDEWALK  
N.T.S. GC-2

- A. FLEXIBLE PIPE REFERS TO ALL STEEL, DUCTILE-IRON AND PLASTIC PIPES.
- B. TYPICAL TRENCH SECTIONS (I, II AND III) ARE TO BE USED ONLY WHERE STABLE, COMPACT SOIL CONDITIONS EXIST. IF BOULDER OR LARGE OBSTRUCTIONS WOULD BE ENCOUNTERED, TRENCH SECTIONS MAY BE DEEPER OR WIDER THAN SHOWN. THE ENGINEER SHOULD BE ADVISED SHOULD THIS OCCUR.
- C. THE NEED FOR PROTECTIVE SYSTEMS, AND EXCAVATION SLOPES SHALL BE DETERMINED CONSIDERING APPLICABLE LOCAL, STATE AND FEDERAL (OSHA) SAFETY STANDARDS AND REGULATIONS AND GEOTECHNICAL CONSULTANTS' RECOMMENDATIONS.
- D. PROTECTIVE SYSTEMS SHALL BE DESIGNED AND BUILT IN ACCORDANCE WITH THE APPLICABLE LOCAL, STATE AND FEDERAL (OSHA) SAFETY STANDARDS AND REGULATIONS.
- E. SUPPORTING DOCUMENTATION SHALL BE SUBMITTED TO THE ENGINEER REGARDING PIPE DESIGN AND COMPLIANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL (OSHA) SAFETY STANDARDS.
- F. UNSUPPORTED VERTICAL AND/OR SLOPING TRENCH WALL SLOPES SHALL NOT BE STEEPER THAN ALLOWED BY APPLICABLE LOCAL, STATE AND FEDERAL (OSHA) SAFETY STANDARDS AND REGULATIONS, UNLESS SUPPORTING DOCUMENTATION IS SUBMITTED, ACCORDING TO AFOREMENTIONED SAFETY STANDARDS.
- G. TRENCH SECTIONS OTHER THAN THE TYPICAL SECTIONS SHOWN MAY BE UTILIZED PROVIDED THEY COMPLY WITH APPLICABLE LOCAL, STATE AND FEDERAL (OSHA) SAFETY STANDARDS AND REGULATIONS. DOCUMENTATION SUPPORTING THIS COMPLIANCE AND PIPE DESIGN CALCULATIONS SHALL BE SUBMITTED TO THE ENGINEER.
- H. IF OVER-EXCAVATION DUE TO POOR FOUNDATION MATERIAL IS ORDERED BY THE ENGINEER, THE BACKFILL MATERIAL SHALL BE ACCORDING TO THE EARTHWORK SECTION OF THE SPECIFICATIONS.
- I. IF DURING CONSTRUCTION, THE WATER TABLE WILL BE DISCOVERED TO BE ABOVE THE TRENCH BOTTOM, THE ENGINEER SHALL BE NOTIFIED, AND APPROPRIATE DEWATERING SHALL BE IMPLEMENTED TO LOWER THE WATER LEVEL BELOW THE TRENCH BOTTOM. THE BACKFILL MATERIAL SHALL BE ACCORDING TO THE EARTHWORK SECTIONS OF THE SPECIFICATIONS, OR AS ORDERED BY THE ENGINEER.



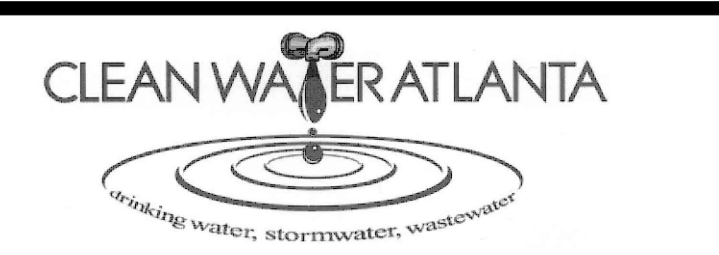
**14**  
TRENCH SECTION - FLEXIBLE PIPE  
N.T.S. GC-2



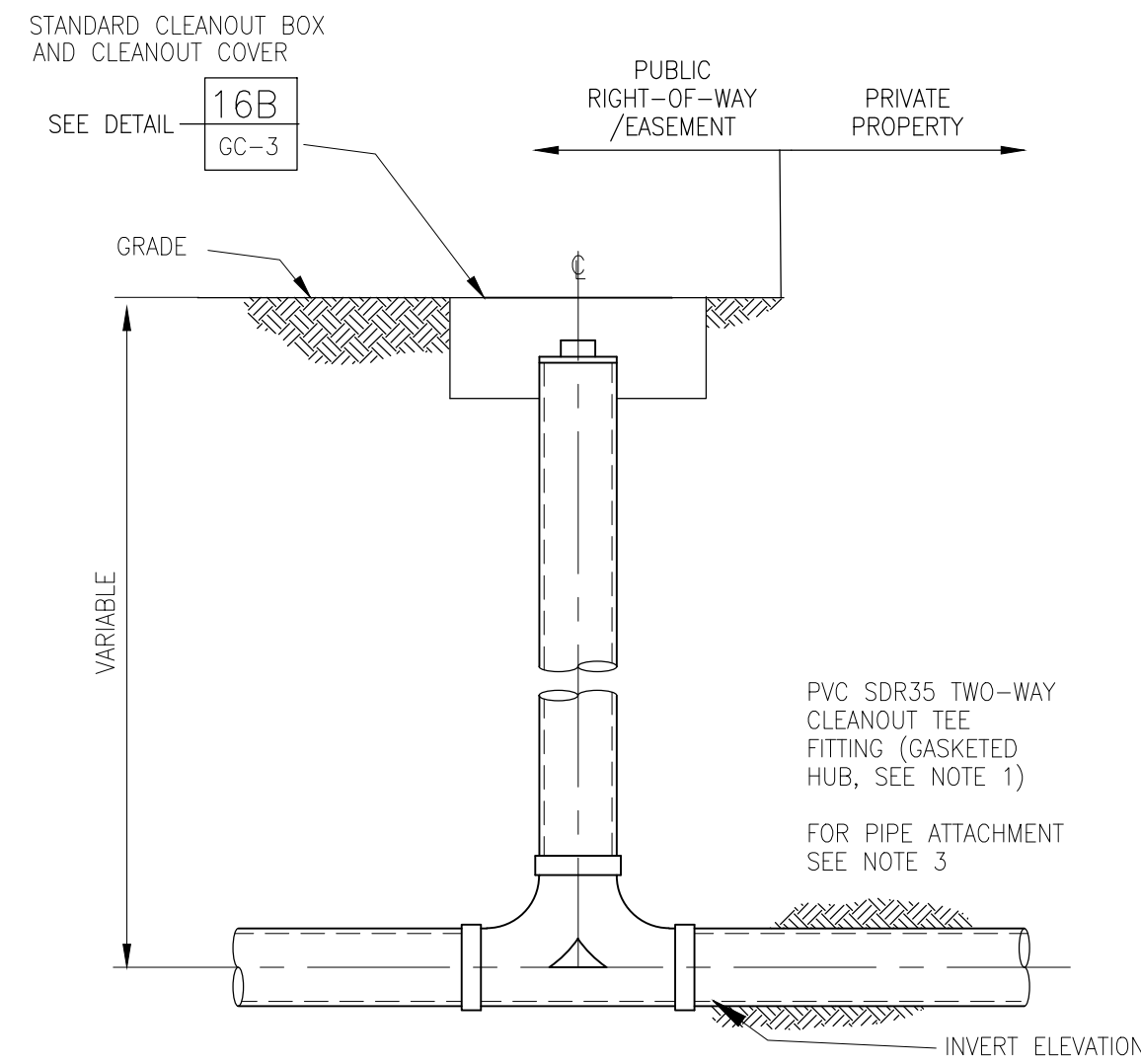
- NOTE:  
1. THIS DETAIL APPLIES TO ALL REPLACEMENT OF GRANITE CURB NECESSARY DUE TO CONTRACTORS' CONSTRUCTION ACTIVITIES.

**15**  
TYPICAL GRANITE CURB DETAILS  
N.T.S. GC-2

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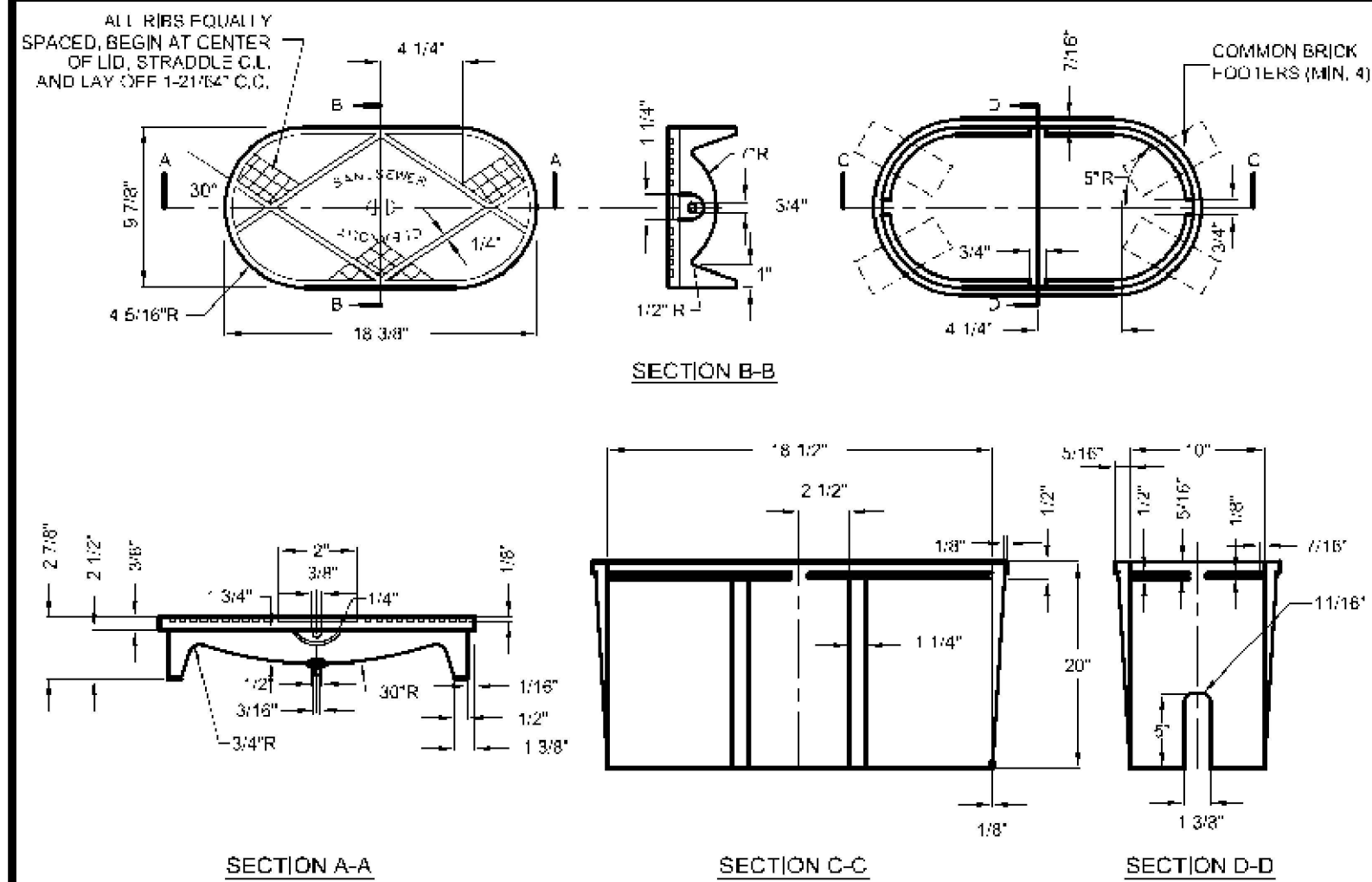






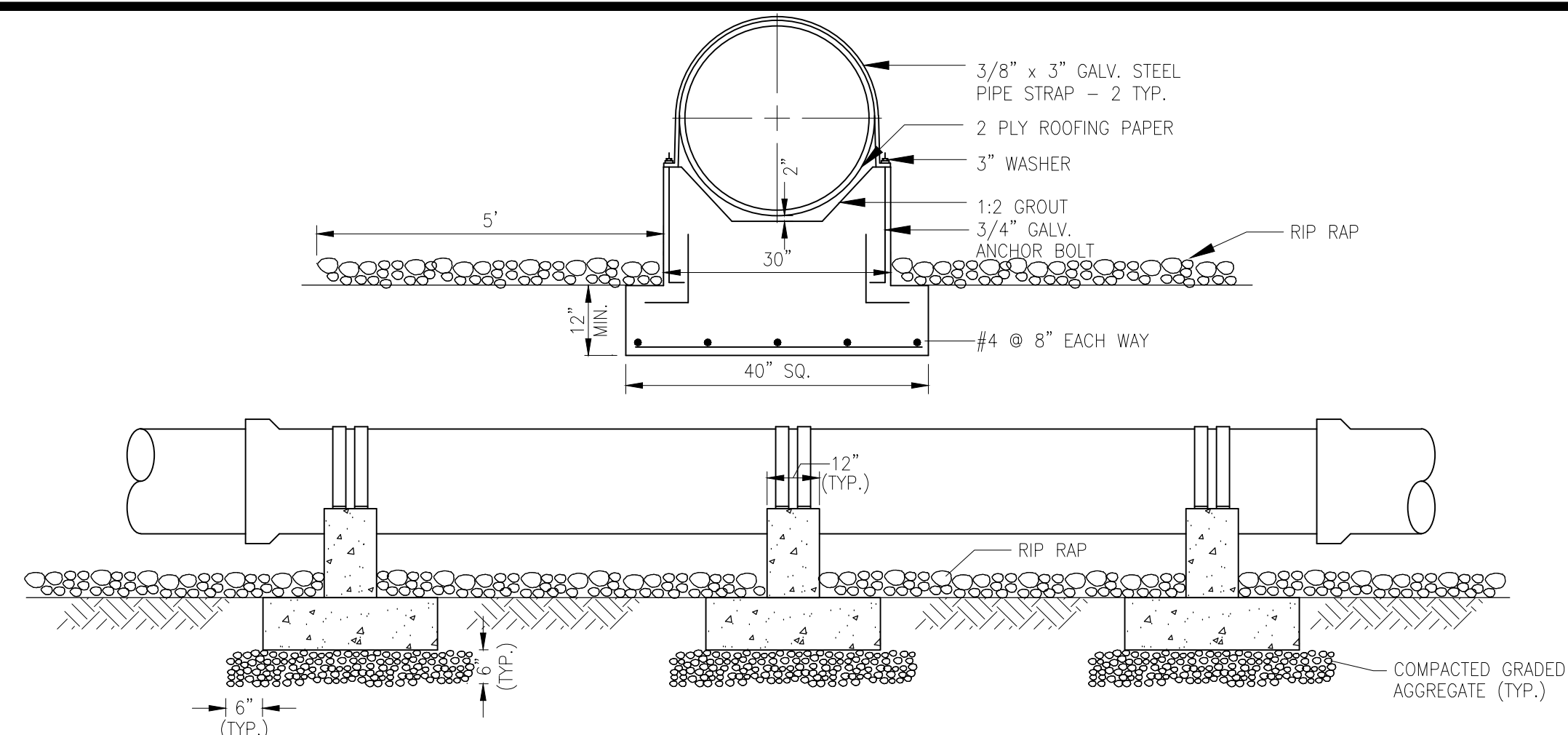
- NOTES:
1. PIPE AND FITTINGS SHALL MEET REQUIREMENTS OF SPECIFICATION SECTION 02730 SEWERS AND ACCESSORIES.
  2. MATCH INVERT OF EXISTING PIPELINE.
  3. CONNECT CLEANOUT TO ADJACENT PIPE USING FERNCO COUPLING (OR APPROVED EQUAL).

CLEANOUT DETAIL **16A**  
N.T.S. GC-3

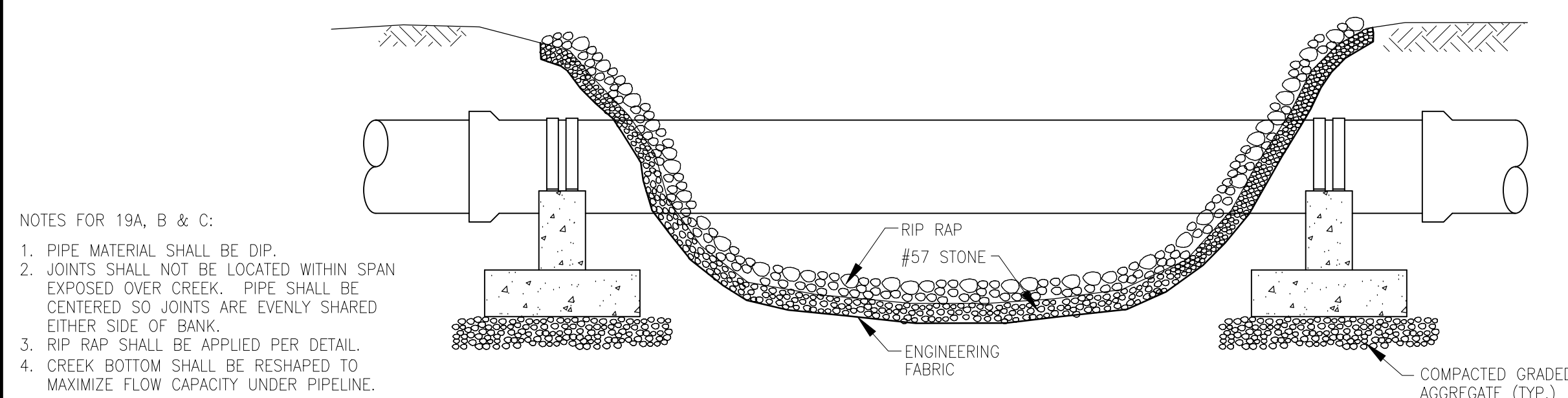


CLEANOUT COVER DETAIL **16B**  
N.T.S. GC-3

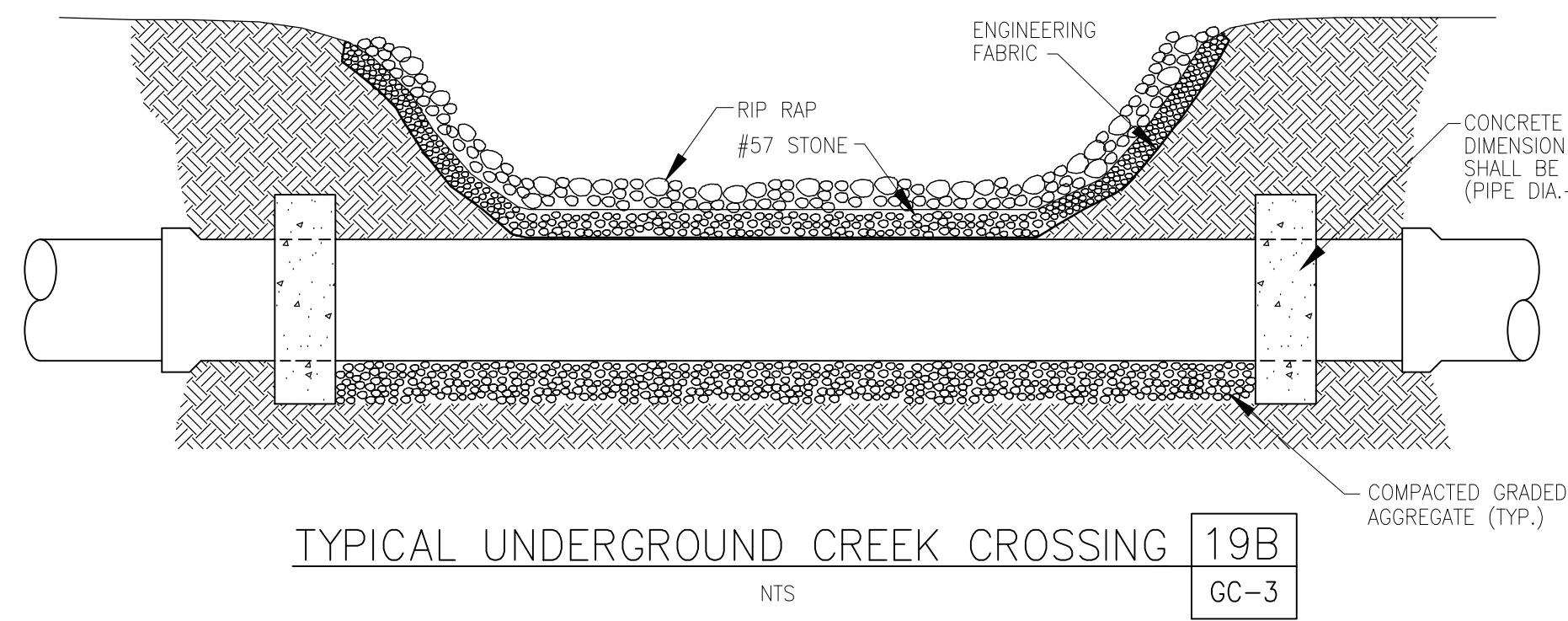
- GENERAL NOTES:
1. UNLESS NOTED OTHERWISE, CAST IRON SHALL CONFORM TO A.S.T.M SPECIFICATION A48 LATEST REVISION FOR CLASS 20 GREY IRON CASTINGS.
  2. CASTINGS SHALL BE TRUE AND FREE OF HOLES. THEY SHALL BE CLEANED ACCORDING TO GOOD FOUNDRY PRACTICE, CHIPPED AND GROUND AS NEEDED TO REMOVE FINIS AND ROUGH PLACES.
  3. FINISHED CASTINGS SHALL BE COATED INSIDE AND OUTSIDE WITH COAL TAR PITCH VARNISH AS INDICATED IN AWWA SPECIFICATIONS C110, LATEST REVISION. COATING MAY BE APPLIED COLD AND SHALL BE SMOOTH, GLOSSY, NOT BRITTLE WHEN COLD, NOT STICKY WHEN EXPOSED TO THE SUN, AND SHALL ADHERE TO THE METAL AT ALL TEMPERATURES.
  4. WHEN COATING IS COMPLETE, LID SHALL FIT SNUGLY WITHOUT ROCKING.



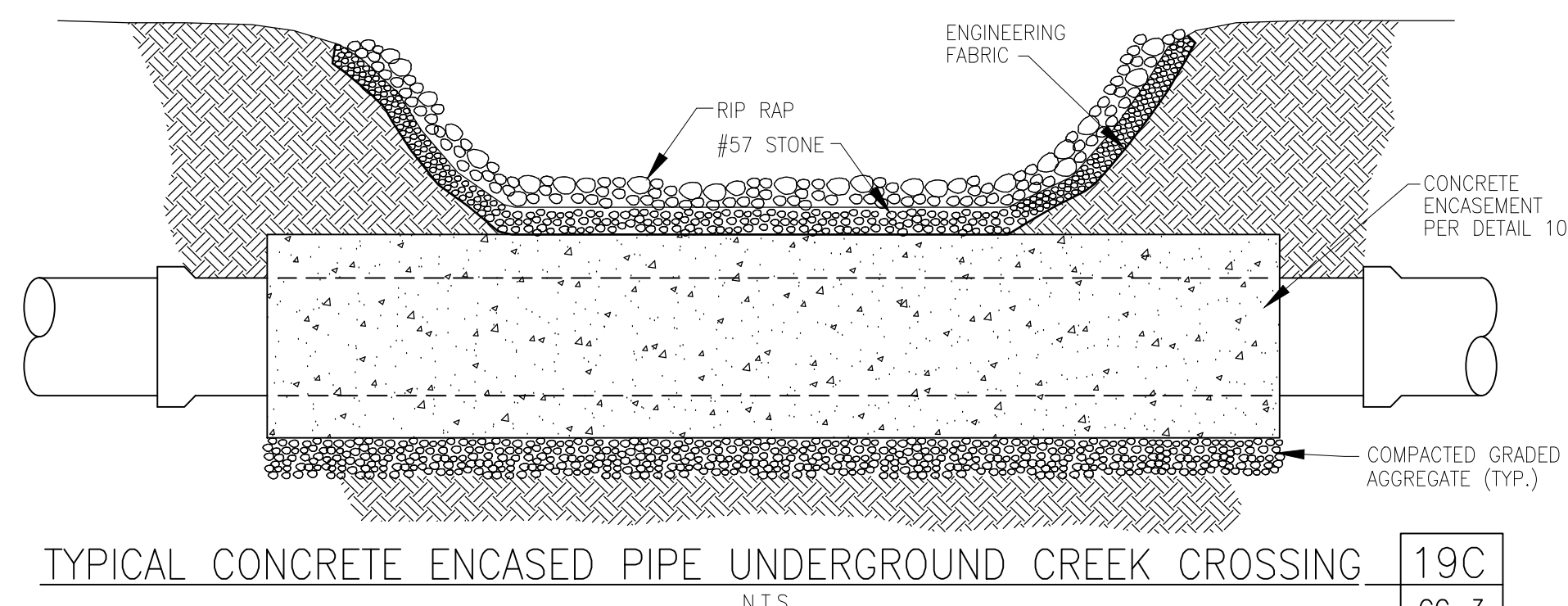
NOTE:  
1. CONCRETE PIER SPACING AS REQUIRED FOR PIPE MATERIAL AND DIAMETER.  
CONCRETE PIER DETAIL IN LAKE **18**  
N.T.S. GC-3



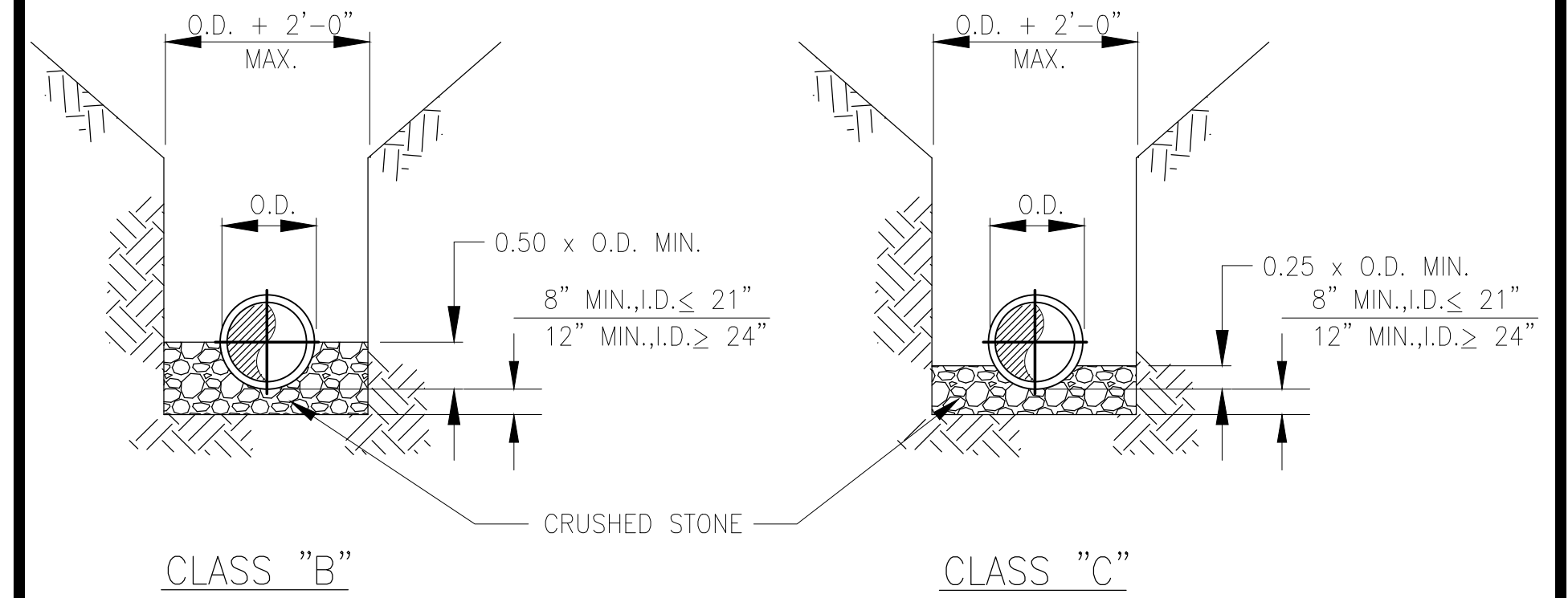
NOTES FOR 19A, B & C:  
1. PIPE MATERIAL SHALL BE DIP.  
2. JOINTS SHALL NOT BE LOCATED WITHIN SPAN EXPOSED OVER CREEK. PIPE SHALL BE CENTERED SO JOINTS ARE EVENLY SHARED EITHER SIDE OF BANK.  
3. RIP RAP SHALL BE APPLIED PER DETAIL.  
4. CREEK BOTTOM SHALL BE RESHAPED TO MAXIMIZE FLOW CAPACITY UNDER PIPELINE.  
TYPICAL CONCRETE PIER DETAIL FOR AERIAL CREEK CROSSING **19A**  
N.T.S. GC-3



TYPICAL UNDERGROUND CREEK CROSSING **19B**  
N.T.S. GC-3

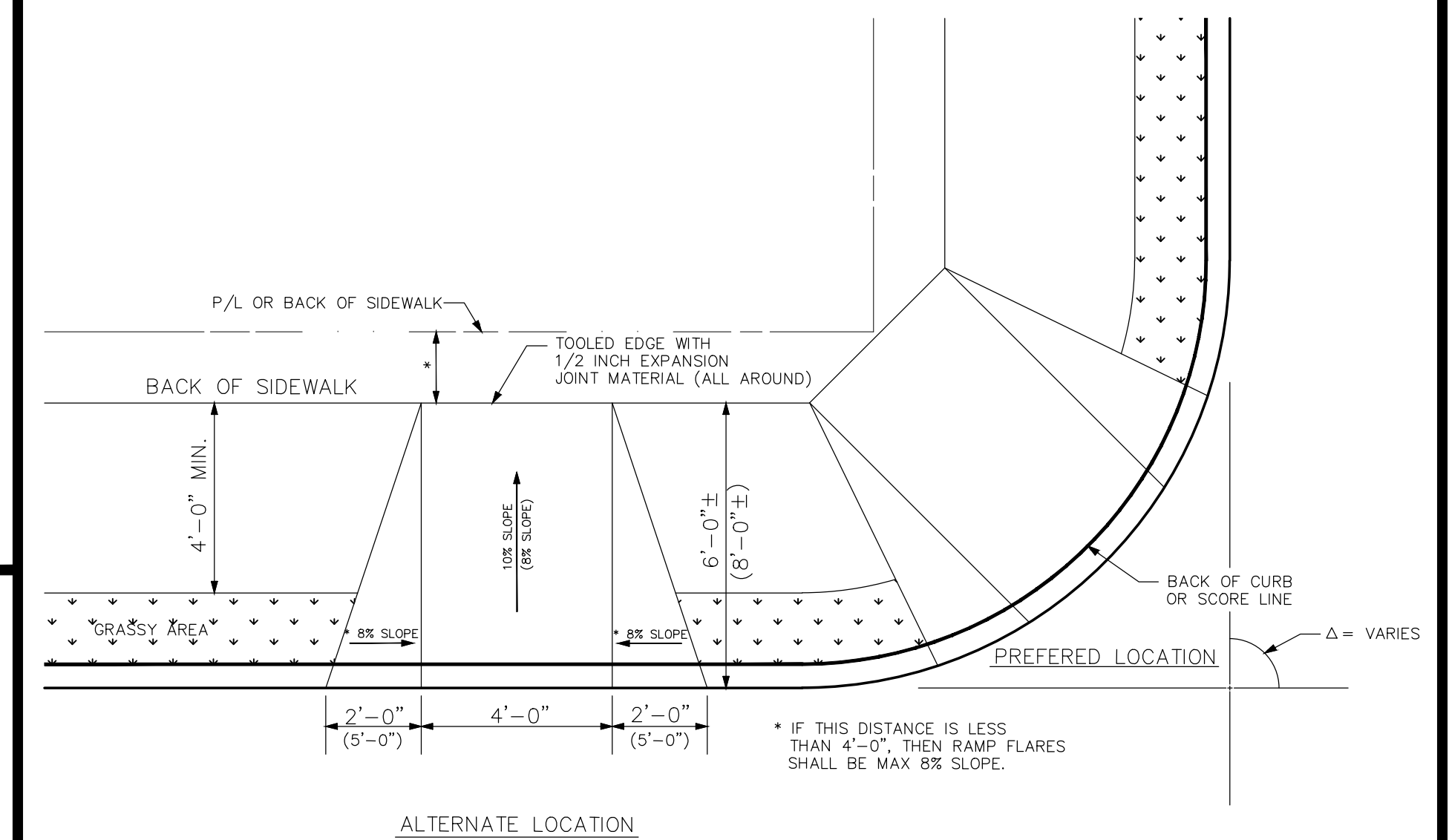


TYPICAL CONCRETE ENCASED PIPE UNDERGROUND CREEK CROSSING **19C**  
N.T.S. GC-3



- NOTES:
1. BEDDING SHALL BE CLASS "B" IN PAVEMENT.
  2. BEDDING SHALL BE CLASS "C" OTHERWISE.
  3. INCLUDES EXCAVATION AND TRENCHES IN ROCK.
  4. RIGID PIPE REFERS TO ALL REINFORCED CONCRETE, STEEL AND DUCTILE IRON PIPES.

TRENCH SECTION - RIGID PIPE **17**  
N.T.S. GC-3



STANDARD-WHEEL CHAIR RAMP **20**  
N.T.S. GC-3

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CITY OF ATLANTA

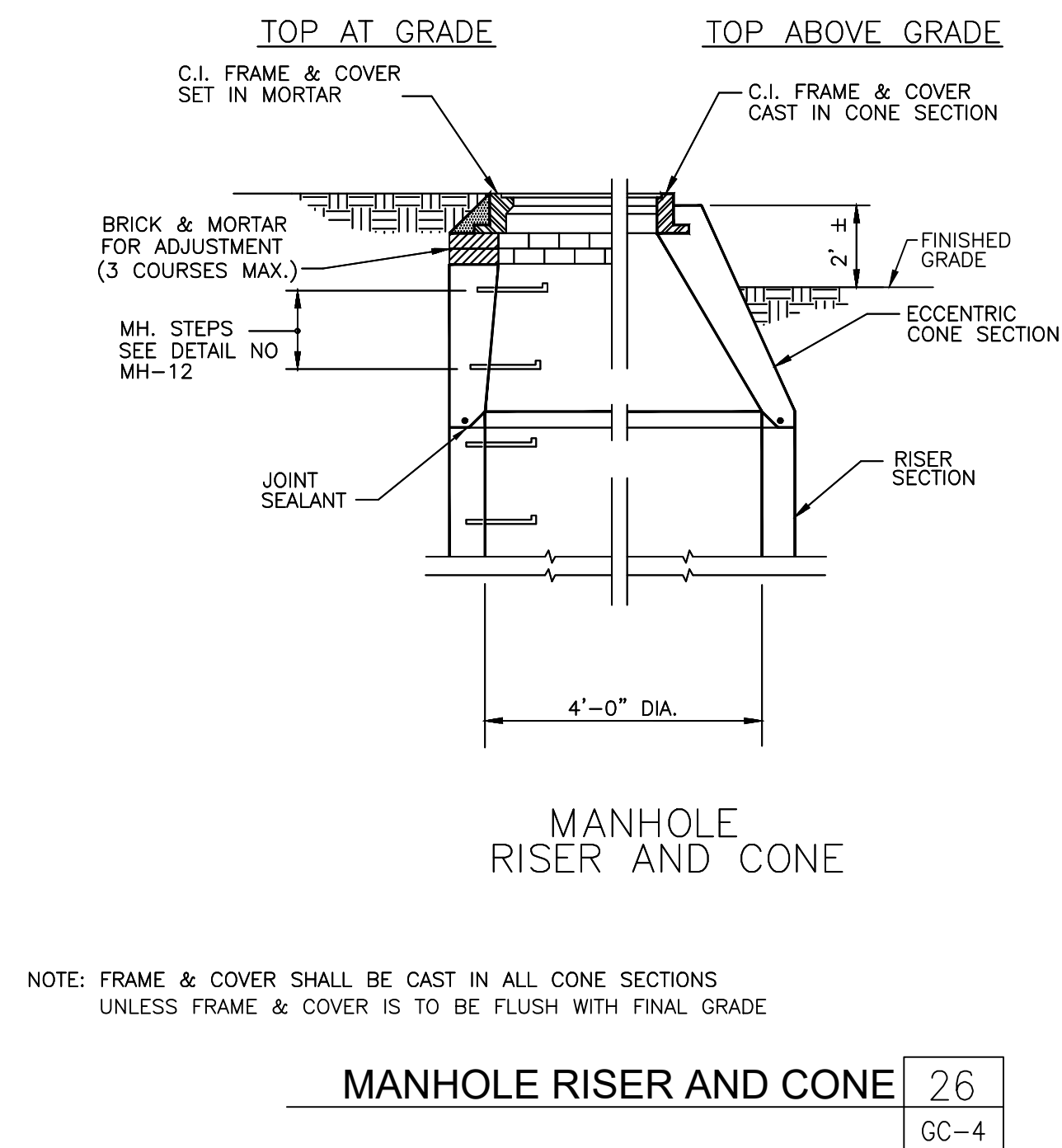
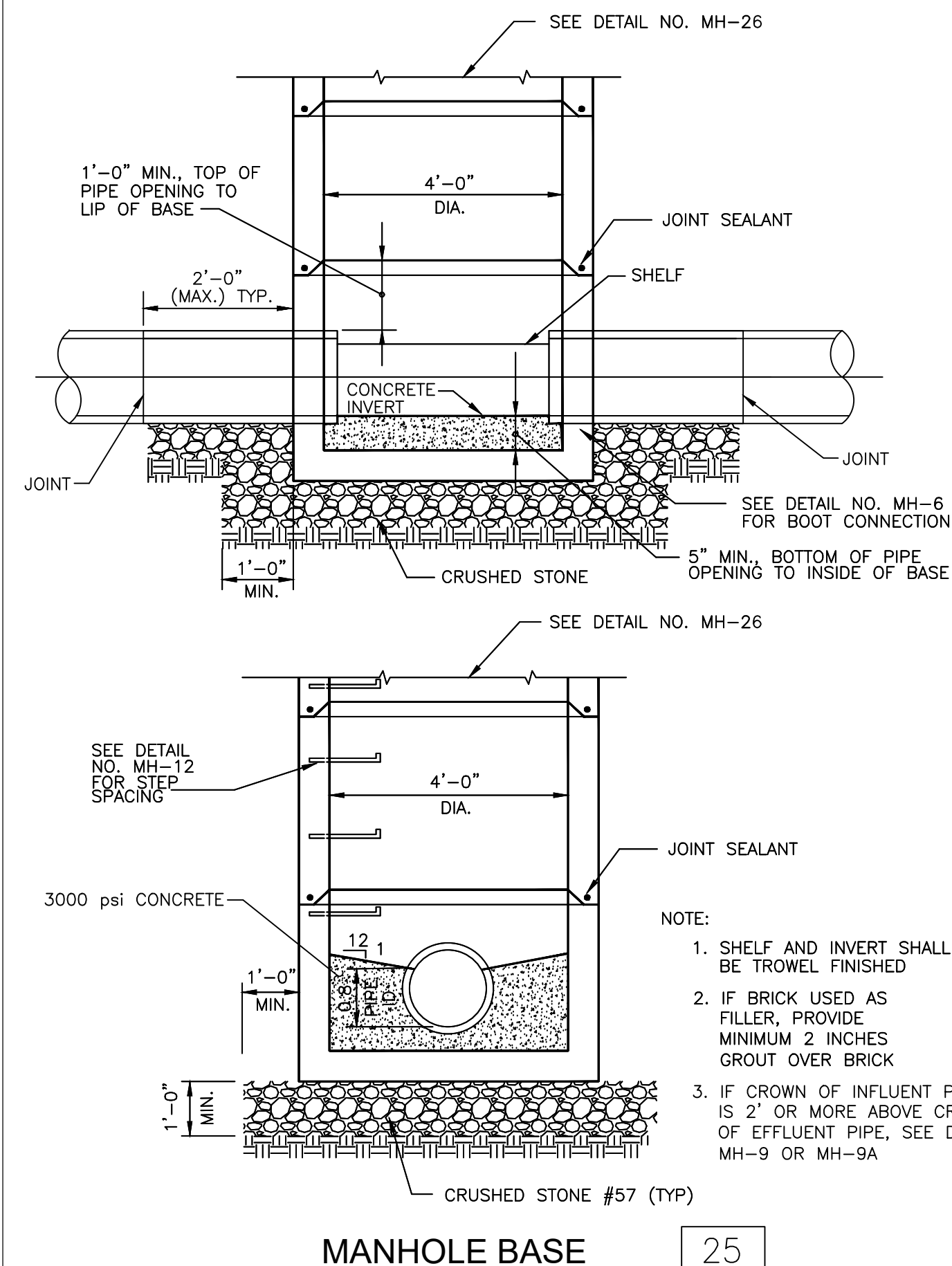
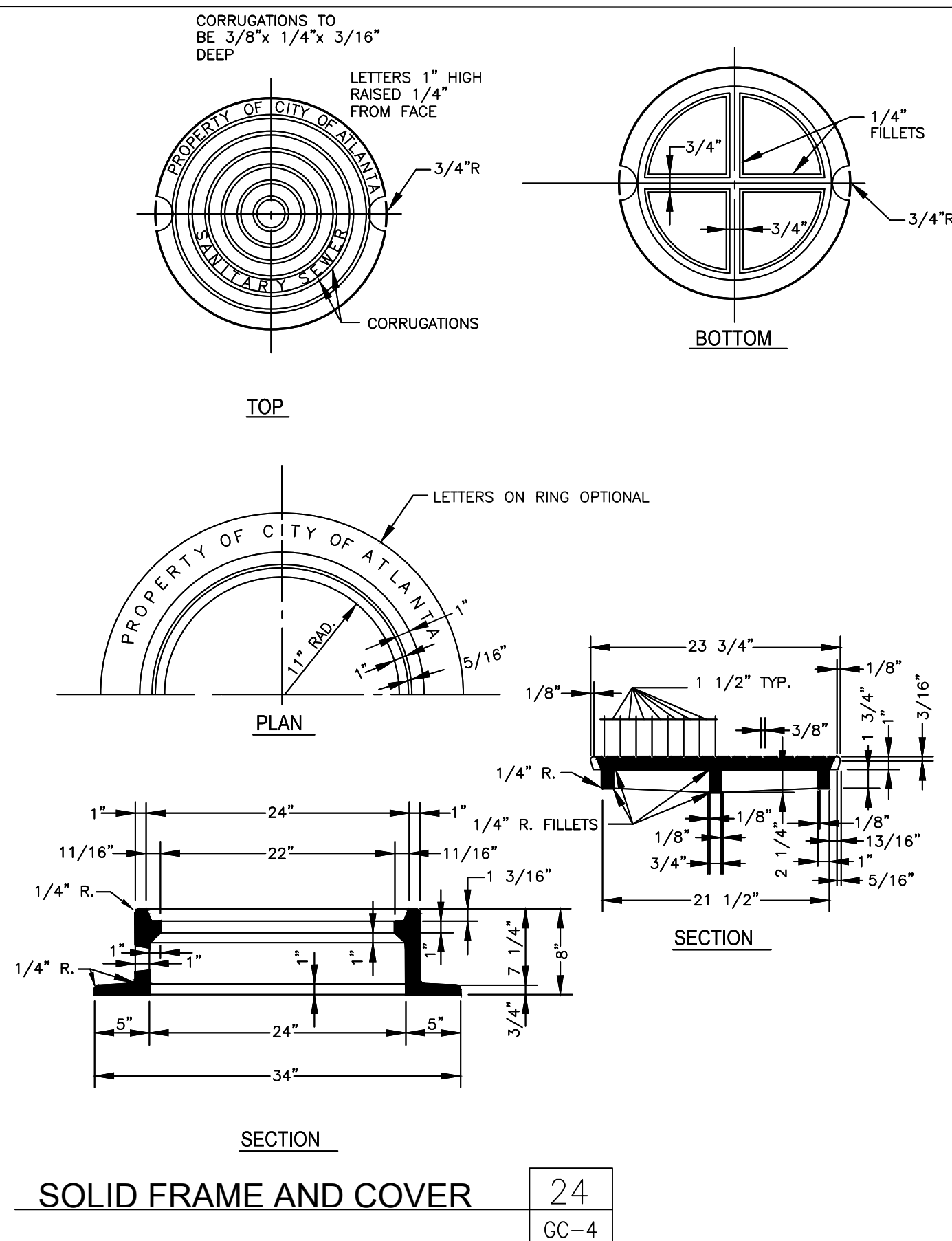
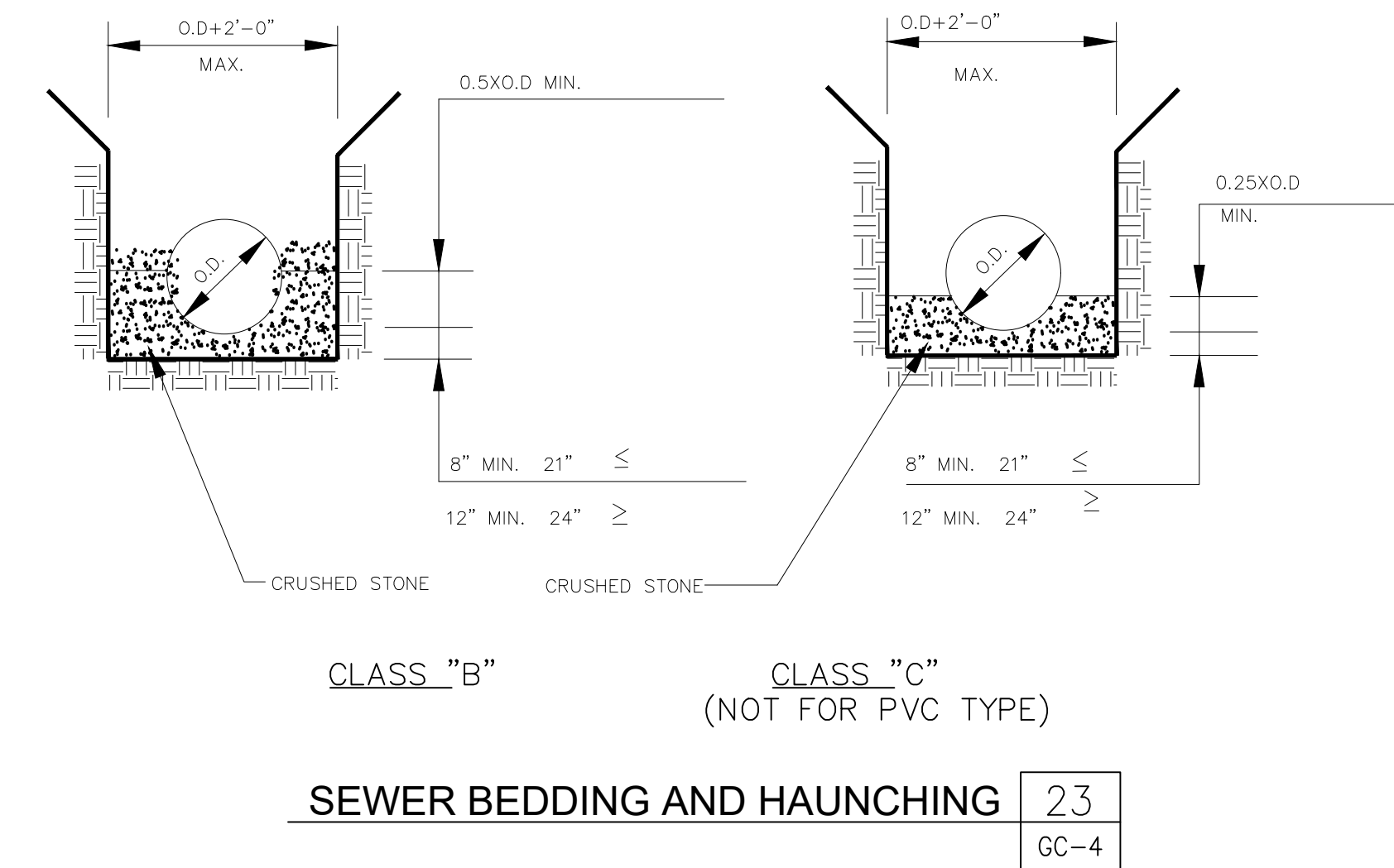
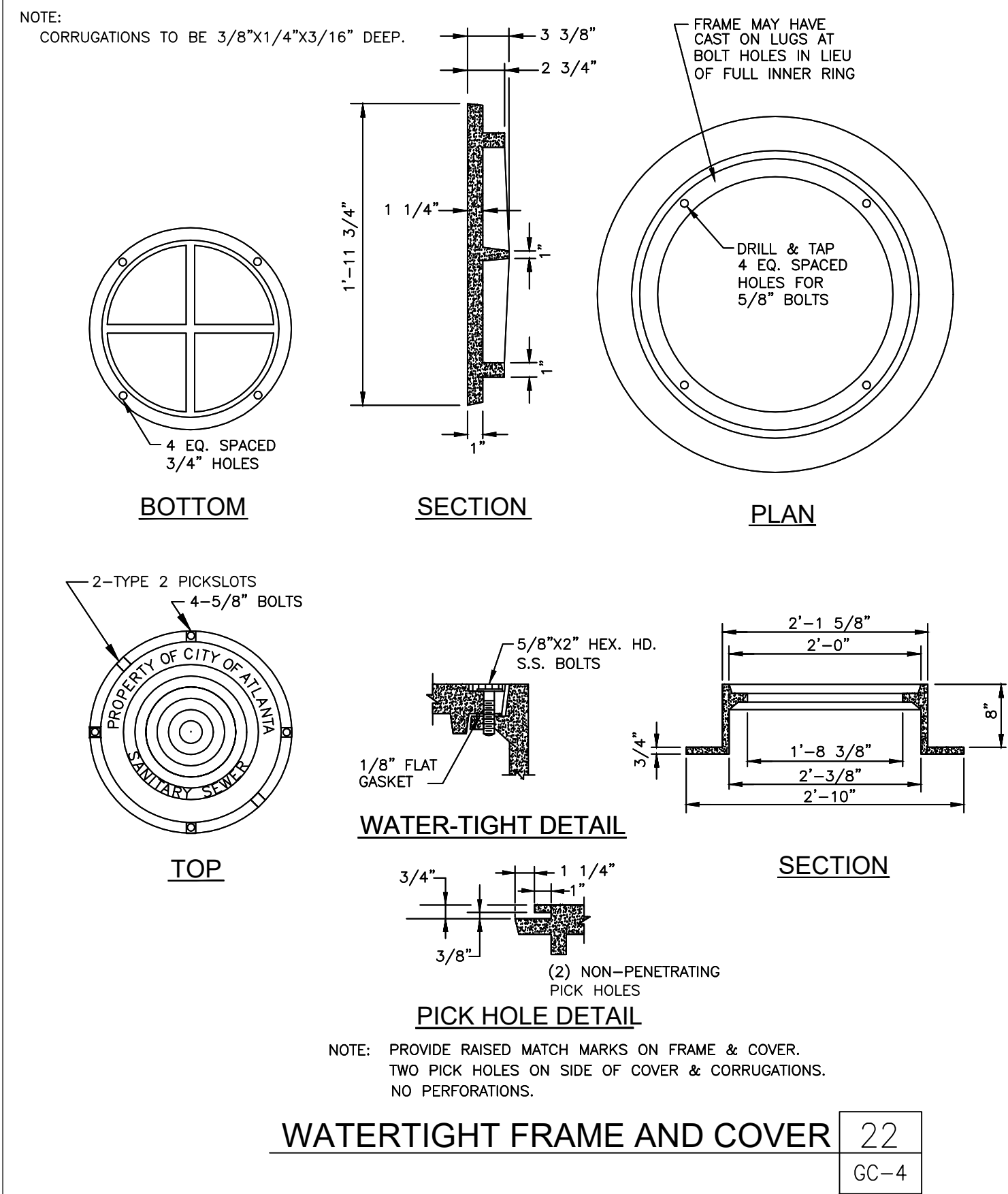
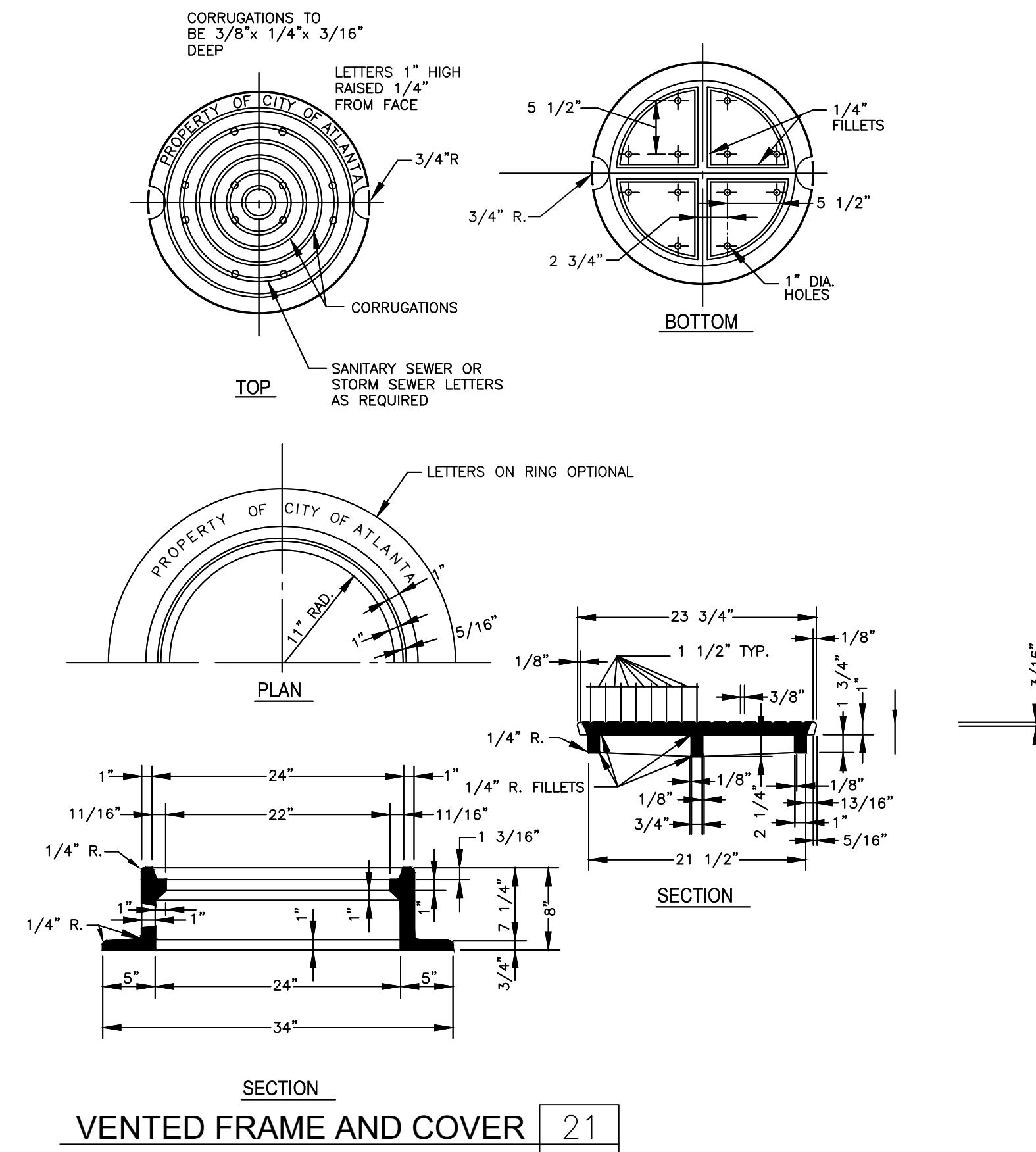
SEWER REHABILITATION

STANDARD DETAILS - 3

SHEET

GC-3





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CITY OF ATLANTA

SEWER REHABILITATION

SHEET

STANDARD DETAILS - 4

GC-4



**EROSION CONTROL NOTES**

1. TYPE C. DESCRIPTION: WATER PERMEABLE FILTER FENCE MATERIAL COMPOSED OF STRONG ROT PROOF SYNTHETIC FIBERS FORMED INTO A MATRIX OF WOVEN OR NON-WOVEN FABRIC. EITHER TYPE OF FABRIC SHALL BE FREE OF ANY TREATMENT OR COATING WHICH MIGHT SIGNIFICANTLY ALTER THE PHYSICAL PROPERTIES AFTER INSTALLATION. THE FABRIC SHALL CONTAIN STABILIZER AND/OR INHIBITORS TO MAKE CERTAIN THE FILAMENTS ARE RESISTANT TO DETERIORATION RESULTING FROM EXPOSURE TO SUNLIGHT OR HEAT. THE FABRIC SHALL BE A PERVIOUS SHEET OF SYNTHETIC FIBERS ORIENTED INTO A STABLE NETWORK, SO THAT THE FIBERS RETAIN THEIR RELATIVE POSITION WITH RESPECT TO EACH OTHER.

EDGES OF THE FABRIC SHALL BE FINISHED TO PREVENT THE OUTER YARN FROM PULLING AWAY FROM THE MATERIAL. THE FABRIC SHALL BE FREE OF DEFECTS OR FLAWS WHICH SIGNIFICANTLY AFFECT THE PHYSICAL AND/OR FILTERING PROPERTIES. THE FABRIC SHALL HAVE A MINIMUM WIDTH OF THIRTY SIX (36) INCHES. SHEETS OF FABRIC MAY BE SEWN OR BONDED TOGETHER. NO DEVIATION FROM ANY PHYSICAL STANDARD WILL BE PERMITTED, DUE TO THE PRESENCE OF THE SEAM.

THE FABRIC MAY BE MANUFACTURED WITH POCKETS FOR POSTS, HEM WITH CORD, OR WITH POSTS PRE-ATTACHED USING STAPLES OR BUTTON-HEAD NAILS.

2. MATERIALS.  
 A. POSTS.  
 1. HARDWOOD: 2"x 2"x 48" MINIMUM.  
 2. STEEL: POSTS SHALL BE ROUND, U.T. OR C SHAPED WITH A MINIMUM WEIGHT OF 1.15-1.25 POUNDS PER FOOT AND HAVE PROJECTIONS FOR FASTENING THE WIRE TO THE FENCE.

B. SPACING. SIX (4) FOOT CENTERS MAXIMUM.

C. FABRIC. GEORGIA DOT QUALIFIED PRODUCTS LIST #36 ONLY.

D. FASTENERS. WIRE STAPLES WILL BE A NO. 17 GAUGE MINIMUM AND SHALL HAVE A CROWN AT LEAST 1/4" WIDE AND LEGS AT LEAST 1/2" IN LENGTH. STAPLES SHALL BE EVENLY SPACED WITH AT LEAST 5 PER POST. NAILS SHALL BE 14 GAUGE MINIMUM, 1" IN LENGTH, WITH 3/4" BUTTON HEADS. NAILS SHALL BE EVENLY SPACED WITH AT LEAST 4 PER POST MINIMUM.

3. INSTALLATION. TEMPORARY SILT FENCE INSTALLATION SHALL CONFORM TO THE STANDARDS SET FORTH IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.

4. MAINTENANCE. THE CONTRACTOR SHALL MAINTAIN THE SILT FENCE UNTIL THE PROJECT IS COMPLETED AND FINAL STABILIZATION IS ACHIEVED. FILTER FABRIC SHALL BE REMOVED AND REPLACED WHENEVER IT HAS DETERIORATED OR BEEN OTHERWISE DAMAGED TO SUCH AN EXTENT THAT IT REDUCES THE EFFECTIVENESS OF THE SILT FENCE.

INSTALLATION OF FABRIC FENCE MATERIAL IN AREAS OF CONCENTRATED FLOW IS NOT RECOMMENDED UNLESS PROPER PROVISIONS ARE MADE TO SUPPLEMENT OR OTHERWISE STRENGTHEN THE FENCE SO AS TO WITHSTAND INCREASED DRAINAGE WATER VELOCITIES.

NOTE: VENDOR MUST SUPPLY LETTER OF WARRANTY FOR THE FOREMENTIONED SPECIFICATIONS. IN ADDITION, THIS LETTER SHOULD STATE THE FABRIC IS LISTED ON THE GEORGIA DOT QUALIFIED PRODUCTS LIST #36.

5. SILT FENCE MUST MEET THE REQUIREMENTS OF SECTION 171- TEMPORARY SILT FENCE OF THE DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA, STANDARD SPECIFICATIONS, 1983 EDITION.

6. ADDITIONAL EROSION CONTROL MEASURES WILL BE EMPLOYED WHERE DETERMINED NECESSARY BY ACTUAL SITE CONDITIONS.

7. PROVISIONS TO PREVENT EROSION OF SOIL FROM SITE SHALL BE, AS MINIMUM, IN ACCORDANCE WITH THE REQUIREMENTS OF THE COUNTY EROSION AND SEDIMENTATION ORDINANCE AND CITY OF ATLANTA CODE OF LAWS.

8. PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY OR EXIT FROM THE SITE.

9. THE CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN-OUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM THE VEHICLE OR SITE, ONTO PUBLIC ROADWAYS OR INTO STORM DRAINS MUST BE IMMEDIATELY REMOVED.

10. PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF CONSTRUCTION SHALL BE CLEARLY AND ACCURATELY ESTABLISHED WITH STAKES, RIBBONS, OR OTHER PRE-APPROVED METHODS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE ACTIVITY SHALL BE ESTABLISHED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO CONSTRUCTION SHALL OCCUR OUTSIDE THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS AND EASEMENT PLATS.

11. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCES/EXITS, ALL PERIMETER EROSION CONTROL DEVICES AND STORMWATER MANAGEMENT DEVICES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.

12. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES, WHILE ROADWAY FRONTAGE IMPROVEMENTS ARE BEING MADE.

13. THE CONSTRUCTION OF THE SITE WILL INITIATE WITH THE INSTALLATION OF EROSION CONTROL MEASURES SUFFICIENT TO CONTROL SEDIMENT DEPOSITS AND EROSION. ALL SEDIMENT CONTROL WILL BE MAINTAINED UNTIL THE UP-STREAM GROUND, WITHIN THE CONSTRUCTION AREA, HAS BEEN COMPLETELY STABILIZED WITH PERMANENT VEGETATION AND ALL ROADS/DRIVEWAYS HAVE BEEN PAVED.

14. EROSION CONTROL DEVICES SHALL BE INSTALLED IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS, IF DRAINAGE PATTERNS, DURING CONSTRUCTION, ARE DIFFERENT FROM THE FINAL PROPOSED PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE ENGINEER, IMMEDIATELY.

15. ALL SILT BARRIERS MUST BE PLACED AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL BE PERFORMED UNTIL SILT BARRIER INSTALLATION AND DETENTION FACILITIES ARE CONSTRUCTED.

16. CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED. CONTRACTOR SHALL CLEAN OUT ALL SEDIMENT PONDS WHEN REQUIRED BY THE ENGINEER OR CITY OF ATLANTA INSPECTOR.

17. THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT WHEN IT IS WITHIN 12" FROM TOP OF THE SILT FENCE, UTILIZED FOR EROSION CONTROL. IN DETENTION PONDS, SILT SHALL BE REMOVED WHEN A DEPTH OF 18" HAS ACCUMULATED, AT THE WEIR.

18. FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN CONSTRUCTION BEING HALTED, UNTIL ALL PROBLEMS HAVE BEEN CORRECTED TO CITY OF ATLANTA STANDARDS.

19. ALL EASEMENTS DISTURBED MUST BE DRESSED AND GRASSED TO CONTROL EROSION (SEE STANDARD EROSION CONTROL DETAILS).

20. ALL OPEN SWALES MUST BE GRASSED AND RIP-RAP MUST BE PLACED AS REQUIRED TO CONTROL EROSION. A MINIMUM OF 4.5 SQUARE YARDS OF 50 LB. STONES SHALL BE PLACED AT ALL DOWNSTREAM HEADWALLS. THE PLACEMENT OF RIP-RAP, AT DOWNSTREAM HEADWALLS, SHALL BE IN PLACE IMMEDIATELY UPON THE INSTALLATION OF PIPES AND DRAINAGE DITCHES.

21. SILT BARRIERS TO BE PLACED AT DOWNSTREAM TOE OF ALL CUT AND FILL SLOPES.

22. PROVIDE CITY OF ATLANTA STANDARD 201-TYPE 1 SILT GATES AT ALL INLET HEADWALLS.

23. PROVIDE CITY OF ATLANTA STANDARD 201-TYPE 3 SILT GATES AT ALL CATCH BASINS, JUNCTION BOXES, MANHOLES, AND DROP INLETS.

24. CHECK DAMS SHALL BE CONSTRUCTED AT THE LOCATIONS SHOWN OR AS DIRECTED BY THE ENGINEER AND IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS, AND SHALL BE CONSTRUCTED BEFORE ANY GRADING OR CLEARING AND GRUBBING IS ACCOMPLISHED. ALL GRADED AREAS, SLOPES, WATERWAYS, ETC., WHICH DRAIN TOWARD THE CHECK DAM SHALL BE GRASSED OR STABILIZED WITH STRAW MULCH IMMEDIATELY AFTER GRADING.

25. THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN THE CHECK DAMS IN GOOD REPAIR BY CLEANING OUT ACCUMULATED SEDIMENT AND REPAIRING THE CHECK DAMS AS NEEDED DURING THE LIFE OF THE CONTRACT.

26. THE NUMBER OF CHECK DAMS AND LENGTH OF SILT FENCE INDICATED ON THE DRAWINGS ARE THE ESTIMATED AMOUNTS REQUIRED. ADDITIONAL CHECK DAMS OR SILT FENCING MAY BE NECESSARY AND SHALL BE PROMPTLY INSTALLED IF REQUIRED BY THE ENGINEER OR BY THE CITY OF ATLANTA INSPECTOR.

27. WHEN THE PERMANENT DRAINAGE STRUCTURES HAVE BEEN INSTALLED AND THE GRASS ON THE PLANTED SHOULDERS, SLOPES, AND WATERWAYS IS SUFFICIENTLY ESTABLISHED TO BE AN EFFECTIVE EROSION DETERRENT, CHECK DAMS SHALL BE REMOVED AND ALL BARE SPOTS SHALL BE PERMANENTLY GRASSED.

28. CONTRACTOR SHALL MAKE EVERY EFFORT TO MINIMIZE WIDTH OF EASEMENT CLEARING AND PRESERVE TREES AND GROWTH ALONG STREAM BANKS. ALL AREAS ALONG THE CREEK BANK WHICH ARE DISTURBED SHALL BE RIP-RAPPED AS SHOWN ON THE DRAWINGS OR DIRECTED BY THE ENGINEER.

29. TWENTY-FIVE FOOT STREAM BUFFER TO BE MAINTAINED EXCEPT WHERE ALLOWED TO INTERVENE BY ENGINEER.

30. PIPE LAYING WORK SHALL PROGRESS SUCH THAT THE MAXIMUM AMOUNT OF OPEN TRENCH DURING WORK HOURS IS LESS THAN 500 LINEAR FEET. AT THE END OF EACH WORKING DAY, THE MAXIMUM LENGTH OF OPEN EXCAVATION SHALL BE 30 LINEAR FEET. SOIL STABILIZATION INCLUDING MULCHING AND SEEDING SHALL BE PERFORMED ON A DAILY BASIS SUCH THAT ALL BACKFILLED TRENCHES ARE STABILIZED WITHIN 24 HOURS AND THAT AT NO TIME SHALL THE TOTAL LENGTH OF UNSTABILIZED BACKFILLED TRENCH EXCEED 500 LINEAR FEET. IN AREAS WHERE THIS STABILIZATION SCHEDULE CANNOT BE MET, AND AREAS SUBJECT TO REPEATED CONSTRUCTION TRAFFIC, SILT FENCE SHALL BE INSTALLED ALONG THE ENTIRE LOWER LIMITS OF THE AREA AT THE CONTRACTOR'S EXPENSE.

**EROSION CONTROL SCHEDULE**

AT THE PRE-CONSTRUCTION CONFERENCE, THE CONTRACTOR SHALL PRESENT HIS PROPOSED PLANS AND SCHEDULES FOR CONSTRUCTION OF THE PROJECT, IN ACCORDANCE WITH THE REQUIREMENTS OF THIS SECTION. THE SCHEDULE SHALL BE BASED ON THE ANALYSIS OF PROJECT CONDITIONS AND EROSION POTENTIAL, AND SHALL BE IN WRITTEN FORM. THIS SCHEDULE SHALL SPECIFICALLY INDICATE THE SEQUENCE OF CLEARING AND GRUBBING, EARTHWORK OPERATIONS, AND CONSTRUCTION OF PERMANENT EROSION CONTROL FEATURES, AND THE PROPOSED USES OF TEMPORARY EROSION CONTROL DEVICES, INCLUDING DETAILS. IT SHALL ALSO INCLUDE PROPOSED METHODS TO PREVENT POLLUTION AND UNNECESSARY DISRUPTION OF STREAMS, LAKES, RESERVOIRS, AND OTHER IMPOUNDMENTS, AS RESULTS OF CONSTRUCTION OPERATIONS.

THE CONTRACTOR SHALL ALSO OUTLINE HIS PROPOSED METHODS OF CONTROLLING EROSION AND PREVENTING POLLUTION OF HAUL ROADS AND IN BORROW PITS, AND AREAS USED FOR DISPOSAL OF WASTE MATERIALS FROM THE PROJECT.

NO WORK SHALL BE STARTED UNTIL THE FOREMENTIONED PLANS AND SCHEDULES HAVE BEEN APPROVED BY THE CITY OF ATLANTA ENGINEER. THE CONTRACTOR WILL BE RESPONSIBLE FOR ACCOMPLISHMENT OF THE WORK IN ACCORDANCE WITH THE ACCEPTED PLANS AND SCHEDULES. THE ENGINEER MAY AFFECT OR APPROVE CHANGES MADE NECESSARY BY UNFORESEEN CIRCUMSTANCES, WHICH ARE BEYOND THE CONTROL OF THE CONTRACTOR.

CONSTRUCTION:

A. GENERAL. THE ENGINEER HAS THE AUTHORITY TO LIMIT THE SURFACE AREA OF ERODIBLE EARTH MATERIAL EXPOSED BY CLEARING AND GRUBBING, THE SURFACE AREA OF ERODIBLE MATERIAL EXPOSED BY EXCAVATION, BORROW AND FILL OPERATIONS, AND TO DIRECT THE CONTRACTOR TO PROVIDE IMMEDIATE PERMANENT OR TEMPORARY EROSION AND POLLUTION CONTROL MEASURES, TO PREVENT CONTAMINATION OF ADJACENT STREAMS OR OTHER WATER COURSES, LAKES, PONDS, OR OTHER AREAS OF WATER IMPOUNDMENT.

SUCH WORK MAY INVOLVE THE CONSTRUCTION OF TEMPORARY BERMS, DIKES, DAMS, SEDIMENT BASINS, SLOPE DRAINS, AND USE OF TEMPORARY MULCHES, MATS, SEEDING, OR OTHER CONTROL DEVICES OR METHODS AS NECESSARY TO CONTROL EROSION. CUT SLOPES SHALL BE SEEDED AND MULCHED AS THE EXCAVATION PROCEEDS. THE CONTRACTOR WILL BE REQUIRED TO INCORPORATE ALL PERMANENT EROSION CONTROL FEATURES INTO THE PROJECT, AT THE EARLIEST TIME, AS OUTLINED IN HIS/HER ACCEPTED SCHEDULE. TEMPORARY EROSION CONTROL MEASURES WILL BE INSTALLED IN ANTICIPATION OF POTENTIAL EROSION PROBLEMS, OR FOR CONTROL OF UNFORESEEN EROSION, AS IT OCCURS.

B. CLEARING AND GRUBBING OPERATIONS SHALL BE SO SCHEDULED AND PERFORMED SO THAT GRADING OPERATIONS AND PERMANENT EROSION CONTROL FEATURES CAN FOLLOW IMMEDIATELY THEREAFTER, IF THE PROJECT CONDITIONS PERMIT; OTHERWISE, TEMPORARY EROSION CONTROL MEASURES MAY BE REQUIRED BETWEEN SUCCESSIVE CONSTRUCTION STAGES.

C. THE ENGINEER WILL LIMIT THE AREA OF EXCAVATION, BORROW AND EMBANKMENT OPERATIONS IN PROGRESS, COMMENSURATE WITH THE CONTRACTOR'S CAPABILITY AND PROGRESS IN KEEPING THE FINISH GRADING, MULCHING, SEEDING, AND OTHER SUCH PERMANENT POLLUTION CONTROL MEASURES CURRENT, IN ACCORDANCE WITH THE ACCEPTED SCHEDULE. SHOULD SEASONAL LIMITATIONS MAKE SUCH COORDINATION UNREALISTIC, TEMPORARY EROSION CONTROL MEASURES SHALL BE TAKEN IMMEDIATELY TO THE EXTENT FEASIBLE AND JUSTIFIED.

GRADING OPERATION:

EACH ROADWAY CUT AND EMBANKMENT SHALL BE COMPLETED IN A CONTINUOUS MANNER, UNLESS OTHERWISE PROVIDED FOR IN THE CONTRACT OR ORDERED BY THE ENGINEER. THE CONTRACTOR SHALL MAINTAIN THE TOP OF THE EARTHWORK IN ALL ROADWAY SECTIONS THROUGH ALL CONSTRUCTION STAGES, IN A MANNER WHICH WILL PERMIT THE RUNOFF OF RAINWATER TO PREVENT EROSION, ON EMBANKMENTS WITH FLAT SLOPES WHERE SLOPE DRAINS ARE IMPRACTICAL, TEMPORARY GRASSING OR STRAW MULCH STABILIZATION SHALL BE CONSTRUCTED CONCURRENTLY WITH THE EMBANKMENT FORMATION. SHOULD SUCH PREVENTATIVE MEASURES FAIL TO FUNCTION EFFECTIVELY, THE CITY OF ATLANTA ENGINEER WILL REQUIRE THE CONTRACTOR TO ACT IMMEDIATELY TO BRING THE EROSION AND SILTATION UNDER CONTROL, BY ADDITIONAL TEMPORARY MEANS, AS NECESSARY.

THE EROSION CONTROL MEASURES DESCRIBED HEREIN SHALL BE CONTINUED UNTIL THE PERMANENT DRAINAGE FACILITIES HAVE BEEN CONSTRUCTED AND THE GRASS, ON PLANTED SLOPES, IS SUFFICIENTLY ESTABLISHED FOR EFFECTIVE STABILIZATION.

TEMPORARY GRASSING AND MULCHING:

WHERE STAGED CONSTRUCTION OR OTHER CONDITIONS NOT CONTROLLED BY THE CONTRACTOR PROHIBIT THE COMPLETION OF A ROADWAY SECTION, IN A CONTINUOUS MANNER, THE ENGINEER MAY ORDER THE CONTRACTOR TO APPLY SEEDING AND/OR TEMPORARY MULCH TO AN ERODIBLE AREA, EITHER ON OR OFF THE RIGHT-OF-WAY, BORROW PITS, TEMPORARY HAUL ROADS, OR WASTE AREAS.

A. TEMPORARY GRASS. TEMPORARY GRASS SHALL CONSIST OF SOWING A QUICK GROWING SPECIES OF GRASS, SUCH AS RYE, BROWN TOP MILLET, OR A CEREAL GRASS, SUITABLE TO THE AREA AND SEASON. SEEDING SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENT OF SECTION 700, IN GEORGIA'S DOT STANDARD SPECIFICATIONS. GROUND PREPARATION WILL BE THE MINIMUM REQUIRED TO PROVIDE A SEED BED. LIME AND FERTILIZER WILL BE OMITTED OR THE RATE OF APPLICATION REDUCED, AS DETERMINED BY THE ENGINEER. MULCH WILL ALSO BE OMITTED.

B. TEMPORARY MULCH. TEMPORARY MULCH WILL BE APPLIED IN ACCORDANCE WITH SECTION 164, GEORGIA'S DOT STANDARD SPECIFICATIONS. STRAW MULCH STABILIZATION, EXCEPT THAT AREA MULCHED, NEED NOT TO BE FINISHED GRADE OR CROSS-SECTION. THE MULCH AREAS MAY BE PLACED ON SLOPES AS STEEP AS 2:1, USING TRACTOR TO EMBED THE MULCH INTO THE SLOPE.

CONSTRUCTION IN STREAM BED:

UNLESS OTHERWISE APPROVED IN WRITING BY THE ENGINEER, CONSTRUCTION OPERATIONS IN RIVERS, STREAMS, AND IMPOUNDMENTS SHALL BE RESTRICTED TO THOSE AREAS WHERE CHANNEL CHANGES ARE SHOWN ON THE PLANS AND TO THOSE AREAS WHICH MUST BE ENTERED FOR THE CONSTRUCTION OF TEMPORARY OR PERMANENT STRUCTURES. AS SOON AS CONDITIONS PERMIT, RIVERS, STREAMS, AND IMPOUNDMENTS SHALL BE PROMPTLY CLEARED OF ALL FALSE WORK, PLUGS WHICH ARE TO BE REMOVED, DEBRIS, AND OTHER OBSTRUCTIONS PLACED THEREIN OR CAUSED BY THE CONSTRUCTION OPERATIONS. FREQUENT FORDING OF LIVE STREAMS WITH CONSTRUCTION EQUIPMENT, WILL NOT BE PERMITTED; THEREFORE, TEMPORARY BRIDGES OR OTHER STRUCTURES SHALL BE USED WHEN STREAM CROSSINGS ARE NECESSARY. MECHANIZED EQUIPMENT SHALL NOT BE OPERATED IN FLOWING STREAMS, EXCEPT AS MAY BE REQUIRED TO CONSTRUCT CHANNEL CHANGES AND TEMPORARY OR PERMANENT STRUCTURES, AND TO REMOVE TEMPORARY STRUCTURES.

CLEAN UP:

BEFORE THE WORK IS CONSIDERED AS COMPLETE, ALL RUBBISH AND UNUSED MATERIAL DUE TO OR CONNECTED WITH THE CONSTRUCTION MUST BE REMOVED AND THE PREMISES RETURNED TO A CONDITION SATISFACTORY TO CITY OF ATLANTA PUBLIC WORKS. STREETS, CURBS, CROSSWALKS, PAVEMENTS, SIDEWALKS, FENCING, AND OTHER PUBLIC AND PRIVATE PROPERTY DISTURBED OR DAMAGED, SHALL BE RESTORED TO THEIR FORMER CONDITION. FINAL ACCEPTANCE WILL BE WITHHELD, UNTIL SUCH WORK IS COMPLETED.

REV	DATE	BY	DESCRIPTION

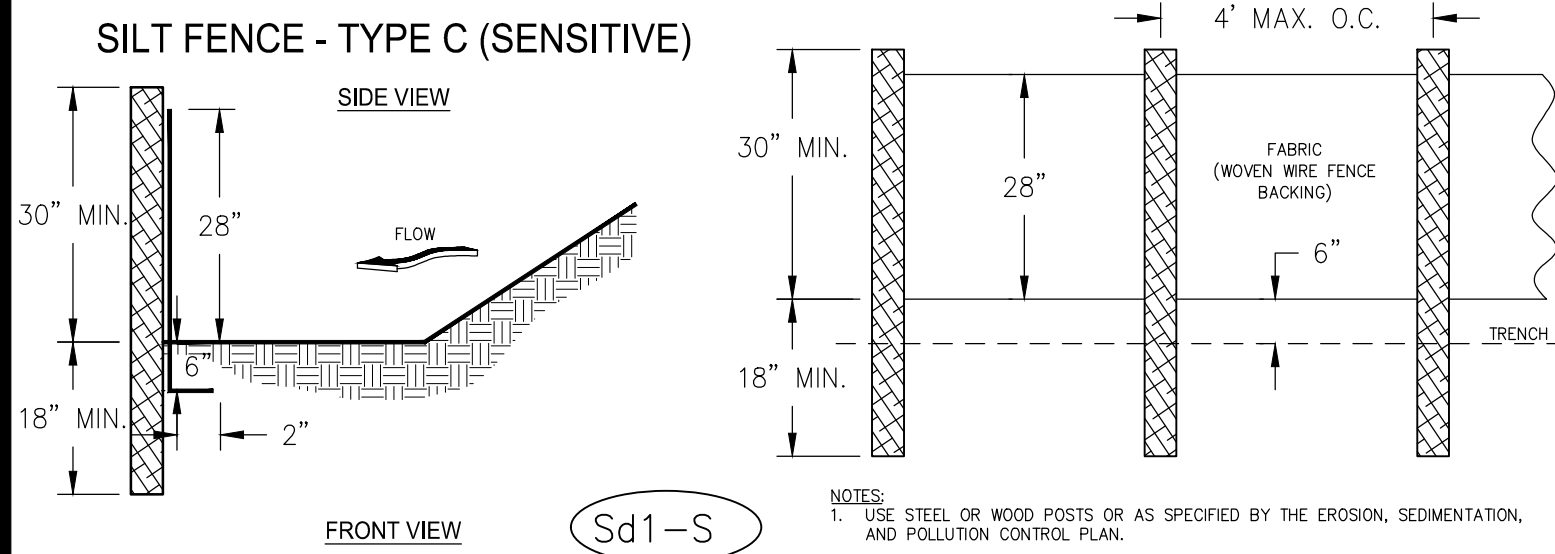
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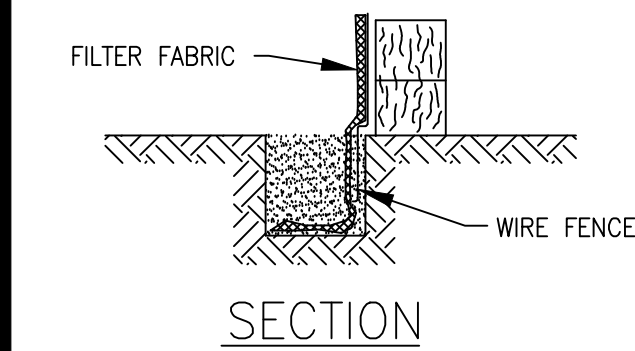

SEWER REHABILITATION
EROSION CONTROL NOTES



Job No.: 4000064 Location: Atlanta Program\SES-13\Cured-in-Place Drawings\Erosion Cont\_Det.dwg Plot Date: 13-JAN-2006 8:00

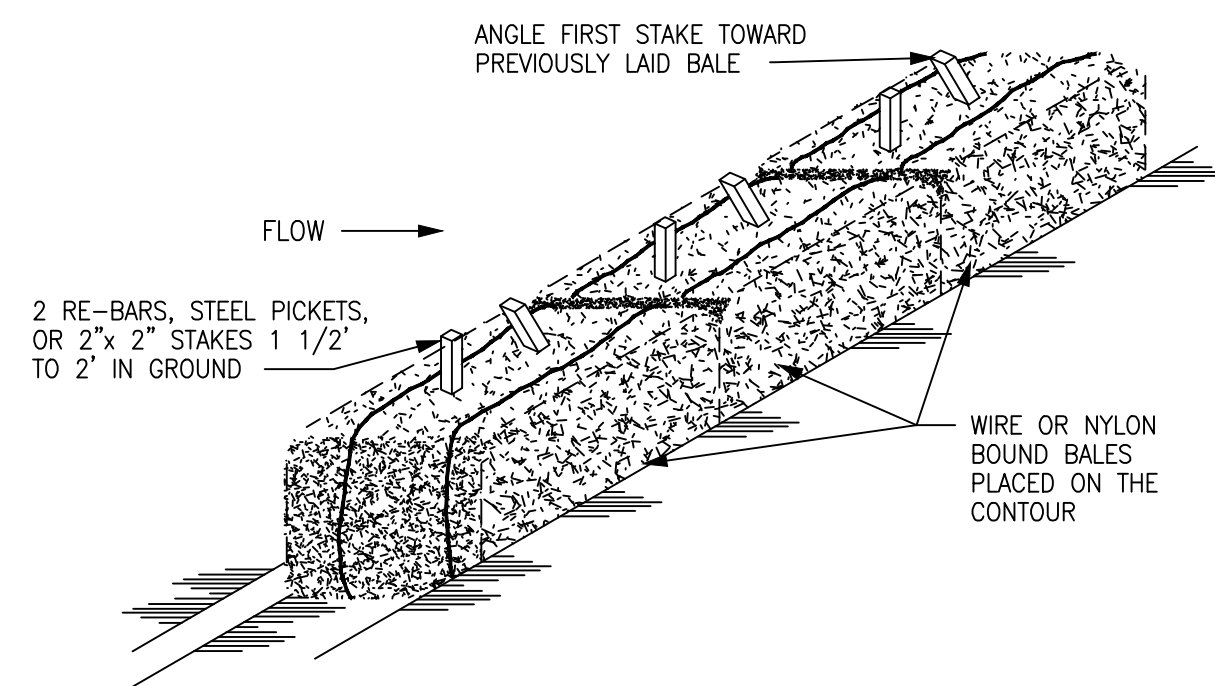
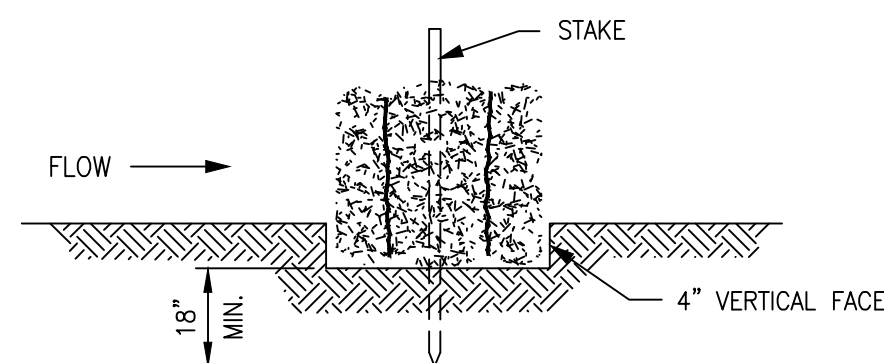


**NOTE:**  
 IN AREAS OF BUFFER ENCROACHMENT - CONTRACTOR SHALL USE DOUBLE ROWS.

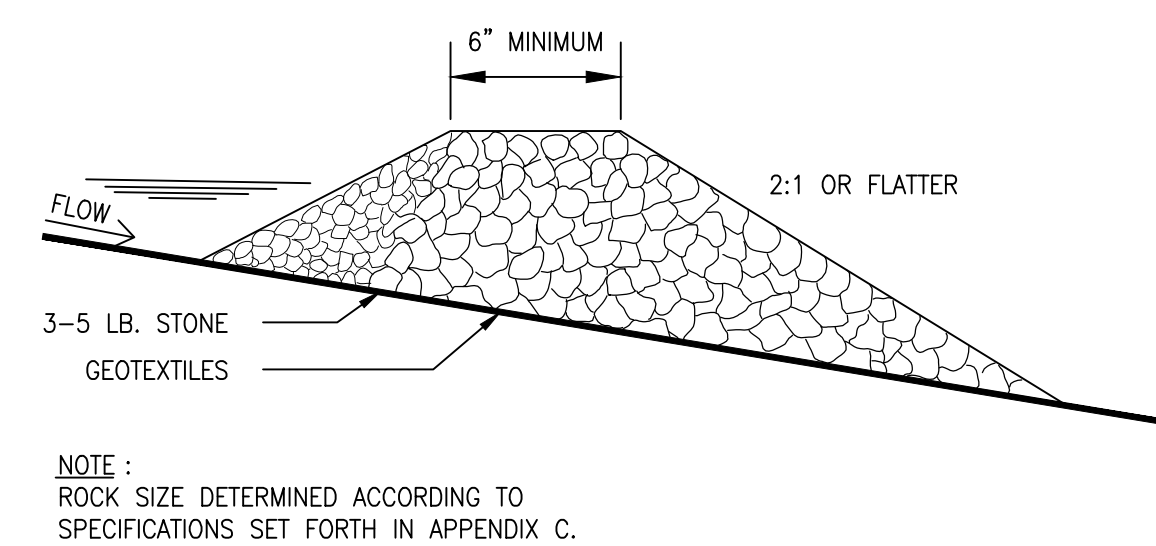
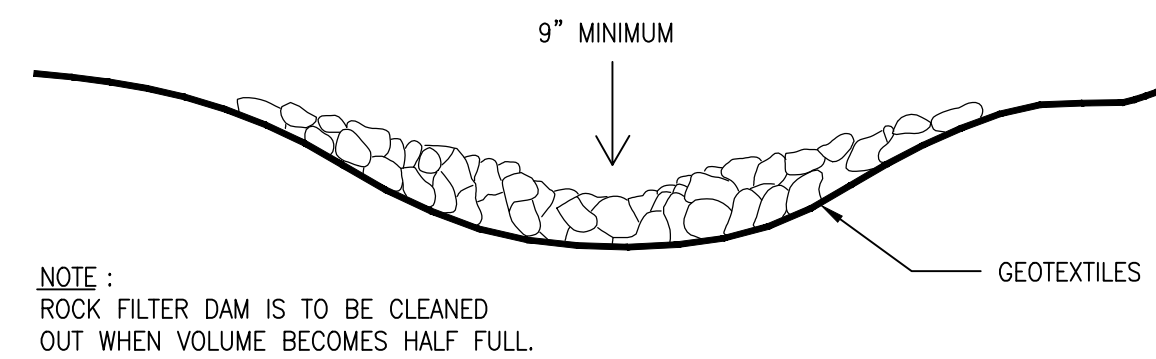
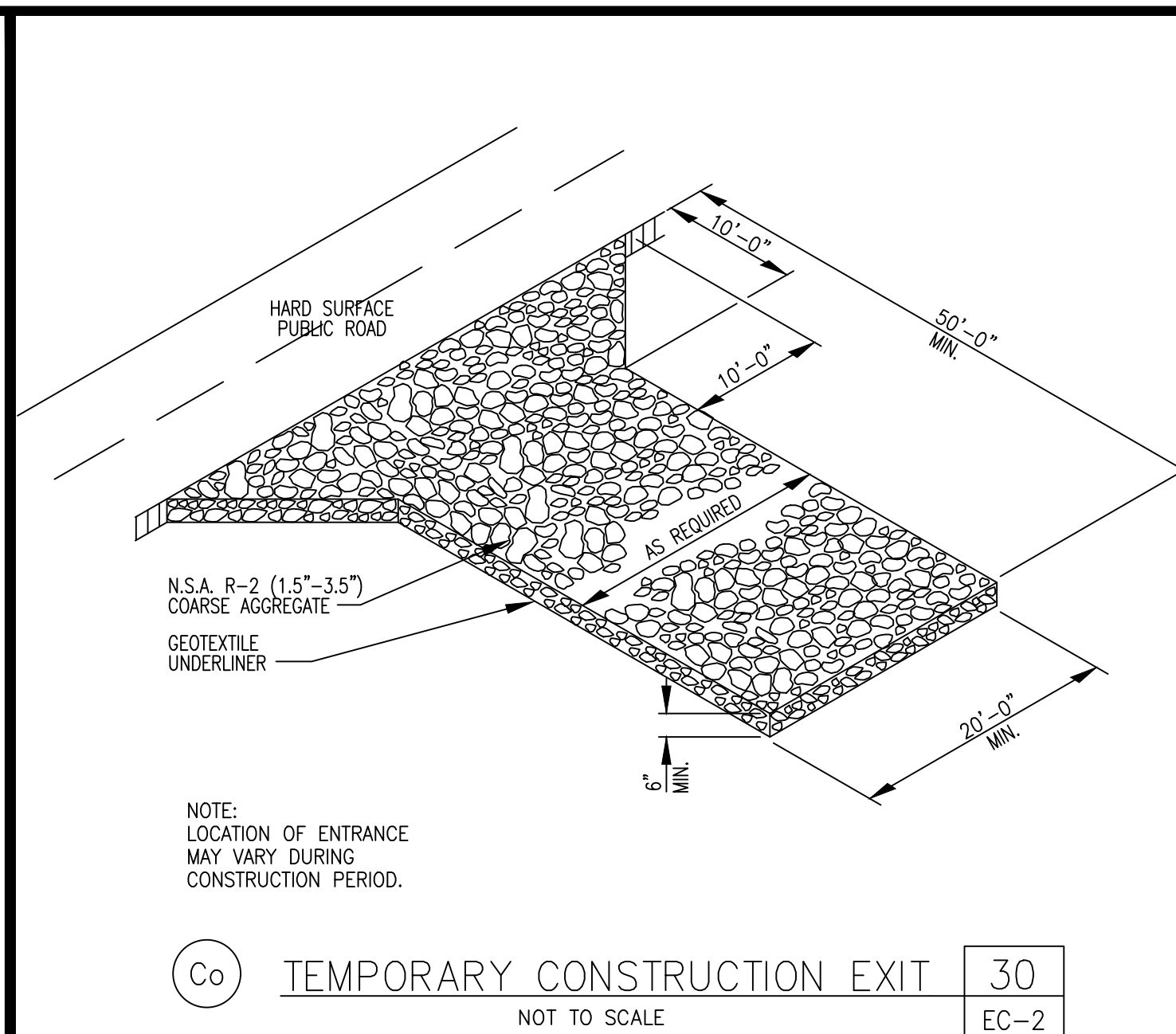


**UNIT CONVERSIONS:**  
 4" = 10 cm

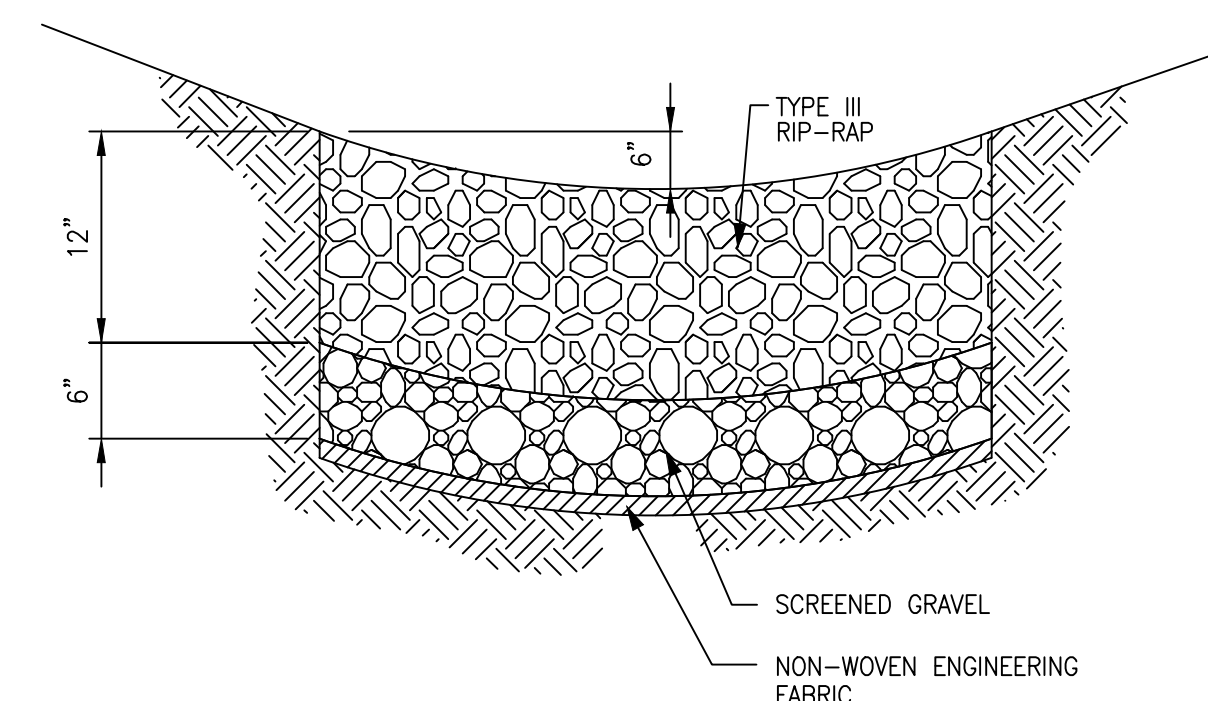
**SILT FENCE** (28) EC-2  
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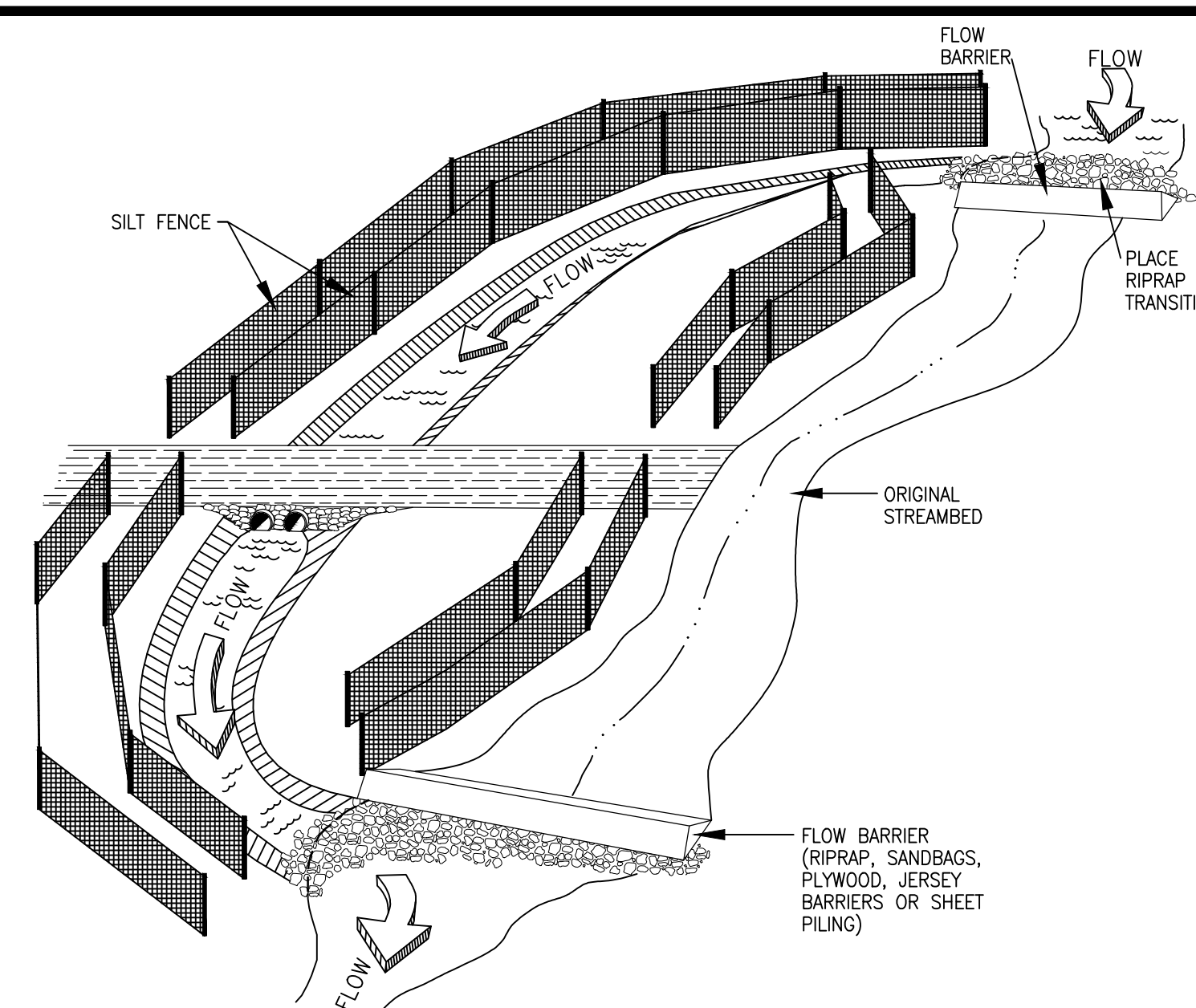
**Sd1** (29) EC-2  
 NOT TO SCALE



**Rd** (31) EC-2



**Rp** (32) EC-2  
 NOT TO SCALE



- NOTES:**
- THE BOTTOM WIDTH OF THE STREAM DIVERSION SHALL BE A MINIMUM OF SIX FEET OR EQUAL TO THE BOTTOM WIDTH OF THE EXISTING STREAMBED (WHICHEVER IS GREATER).
  - SIDE SLOPES OF THE STREAM DIVERSION CHANNEL SHALL BE NO STEEPER THAN 2:1.
  - THE CHANNEL SHALL BE EXCAVATED, CONSTRUCTING PLUGS AT BOTH ENDS.
  - TWO ROWS OF TYPE S SEDIMENT BARRIERS SHALL BE PLACED ALONG THE SIDES OF THE CHANNEL TO PREVENT UNFILTERED RUNOFF FROM ENTERING THE STREAM.
  - THE CHANNEL SURFACE SHALL BE SMOOTH (TO PREVENT TEARING OF THE LINER) AND LINED WITH THE MATERIAL SPECIFIED IN THE PLANS.
  - THE PLUGS ARE REMOVED WHEN THE LINER INSTALLATION IS COMPLETE (REMOVING THE DOWNSTREAM PLUG FIRST).

**VEGETATIVE PRACTICES**

<b>Du</b>	DUST CONTROL ON DISTURBED AREAS		<b>Du</b>	Controlling surface and air movement of dust on construction site, roadways and similar sites.
<b>Ds2</b>	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)		<b>Ds2</b>	Establishing a temporary vegetative cover with fast growing seedings on disturbed areas. (SEE DETAILS 34/EC-2 FOR SEEDING RATES)
<b>Ds3</b>	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)		<b>Ds3</b>	Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas. (SEE SPECIFICATIONS)

**STRUCTURAL PRACTICES**

<b>Rd</b>	ROCK FILTER DAM		<b>Rd</b>	A permanent or temporary stone filter dam installed across small streams or drainageways.
<b>Co</b>	CONSTRUCTION EXIT		<b>Co</b>	A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
<b>Sd1</b>	SEDIMENT BARRIER		<b>Sd1</b>	A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence. (INDICATE TYPE)
<b>Sd2</b>	INLET SEDIMENT TRAP		<b>Sd2</b>	An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
<b>Rp</b>	RIP-RAP		<b>Rp</b>	

SPECIES	RATE PER 1,000 SQ. FT.	RATE PER ACRE <sup>1</sup>	PLANTING DATES <sup>2</sup>
			PIEDMONT
RYE	3 POUNDS	2-3 BU.	9/1-1/1 3/1-4/1
RYEGRASS	1 POUND	40-50 POUNDS	8/15-1/1
RYE AND ANNUAL LESPEDEZA	1-1/2 POUNDS 1/2 POUND	1 - 1-1/2 POUNDS 20-25 POUNDS	3/1-4/1 3/1-4/1
WEEPING LOVEGRASS	0.2 POUNDS	4-6 POUNDS	3/1-8/15
SUDANGRASS	1 POUND	35-45 POUNDS	4/1-7/15
BROWNTOP MILLET	1 POUND	30-40 POUNDS	4/1-7/15
WHEAT	3 POUNDS	2-3 BU.	10/15-1/1
BERMUDA	0.2 POUNDS	10 POUNDS	1/1-3/1 10/1-1/1
TALL FESCUE	1.1 POUNDS	50 POUNDS	3/1-4/1 8/15-10/15

<sup>1</sup> UNUSUAL SITE CONDITIONS AS DETERMINED BY ENGINEER MAY REQUIRE HEAVIER SEEDING RATES.

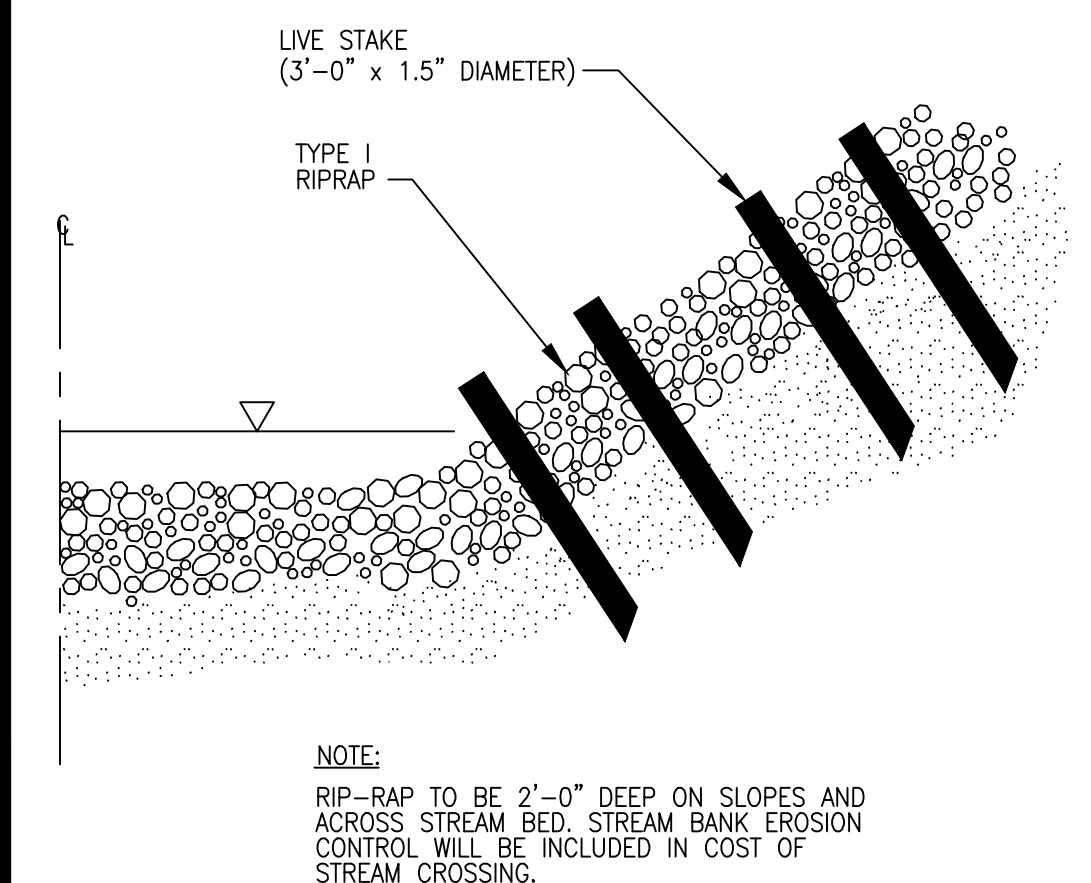
<sup>2</sup> SEEDING DATES MAY NEED TO BE ALTERED TO FIT TEMPERATURE VARIATIONS AND LOCAL CONDITIONS.

ESTABLISHING A TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS ≤ 12 MONTHS OR UNTIL ESTABLISHMENT OF FINISHED GRADE OR PERMANENT VEGETATION

**SITE PREPARATION:**

- GRADING AND SHAPING
- SEEDBED PREPARATION
- APPLY LIME AND FERTILIZER
- PLANT SEEDINGS, SELECT SPECIES BY SEASON AND REGION
- APPLY MULCHING MATERIAL IF NEEDED
- IRRIGATE IF NEEDED BUT NOT AT RATE TO CAUSE EROSION

**TEMPORARY STABILIZATION** (Ds2) (34) EC-2



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**WARNING**  
 IF THIS BAR DOES NOT EQUAL 1" THEN DRAWING IS NOT TO SCALE

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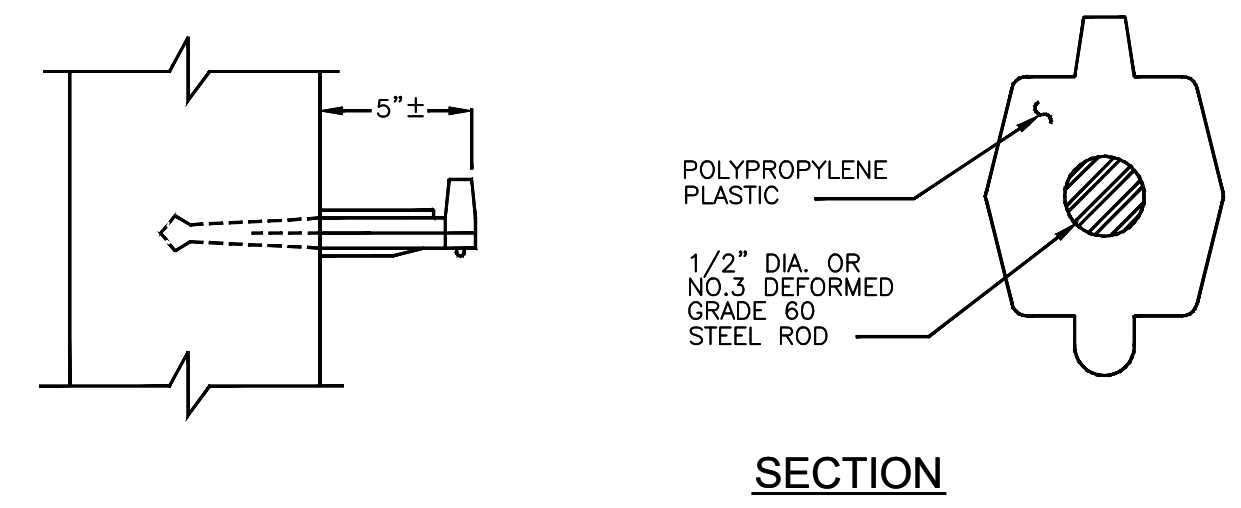
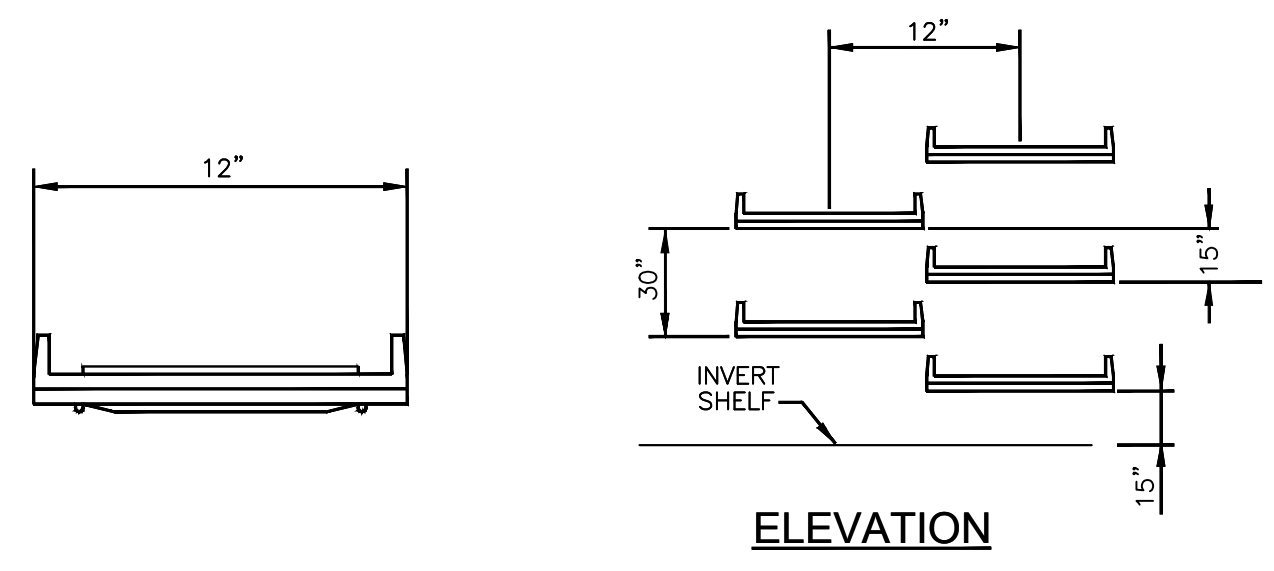
The original of this document was signed and sealed by Reginald Crayton, registration number 037875 on 05/06/2016.  
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SEWER REHABILITATION  
 EROSION CONTROL DETAILS

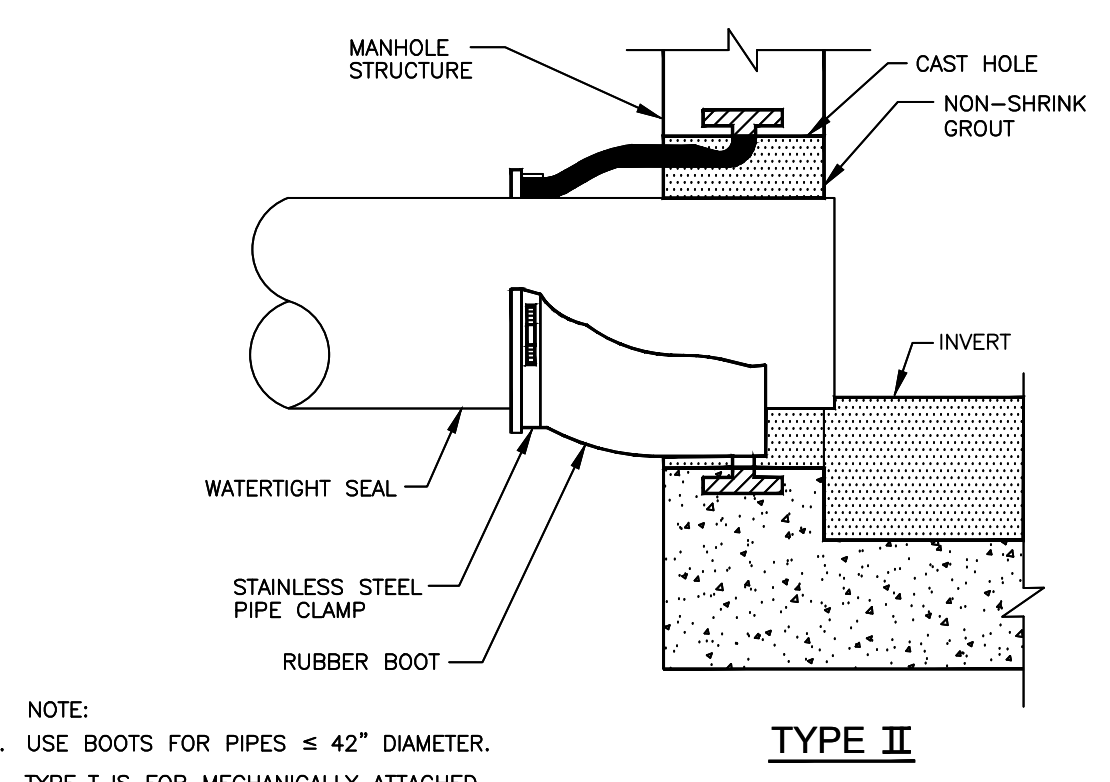
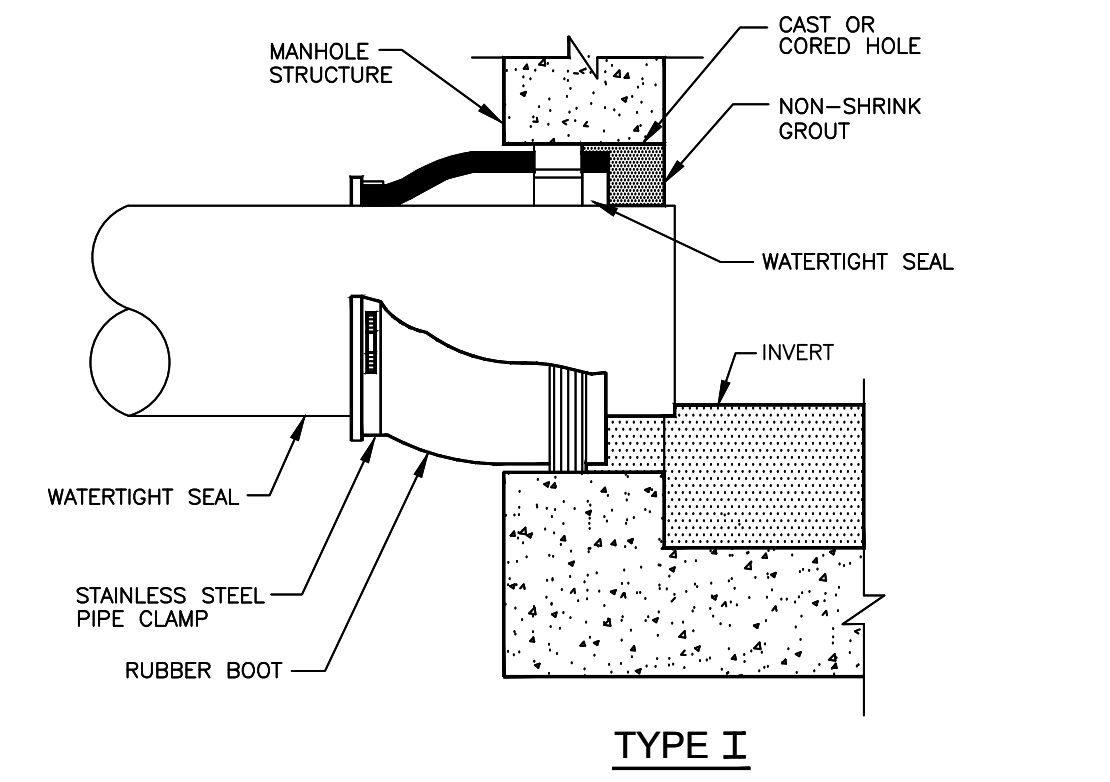
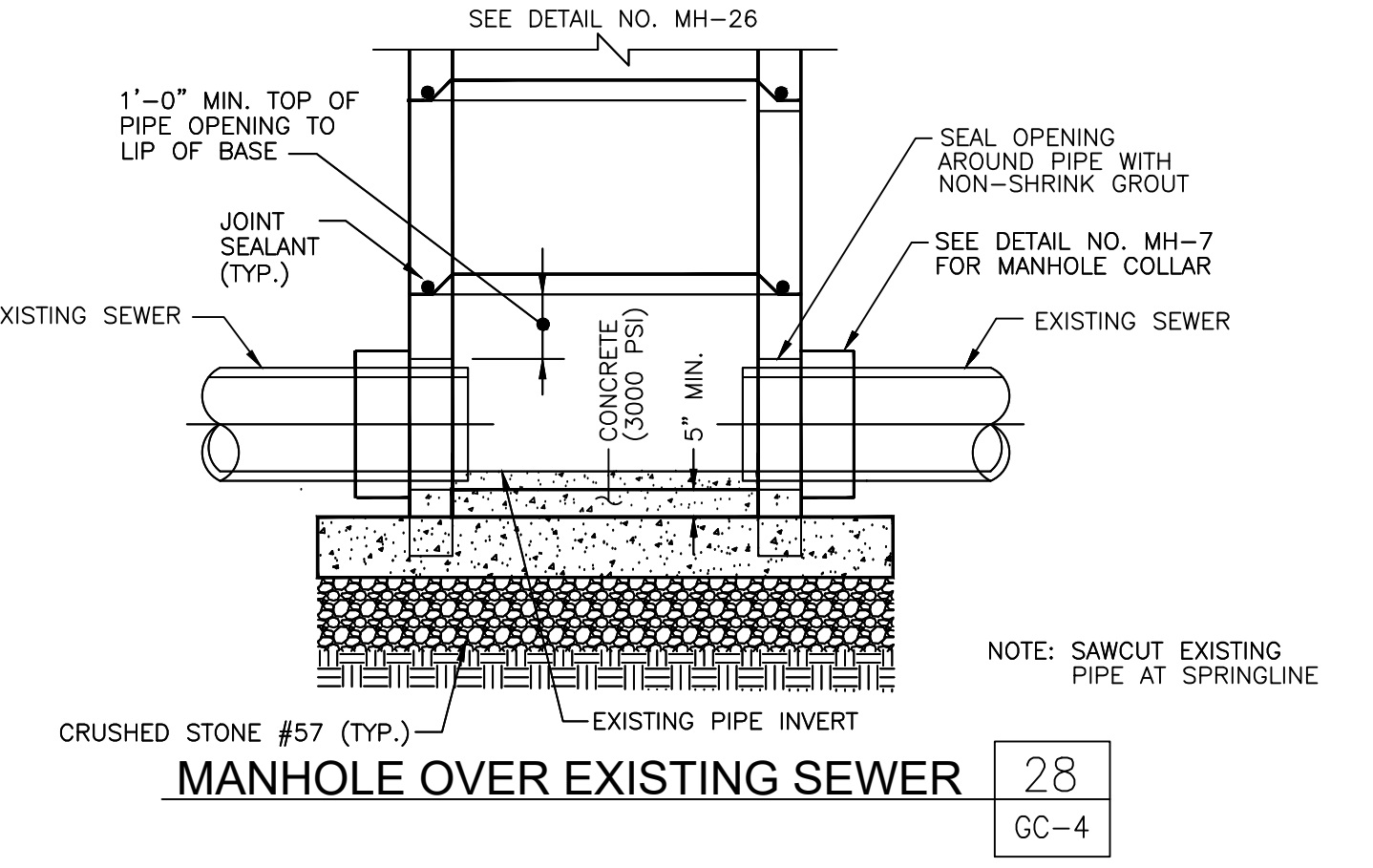
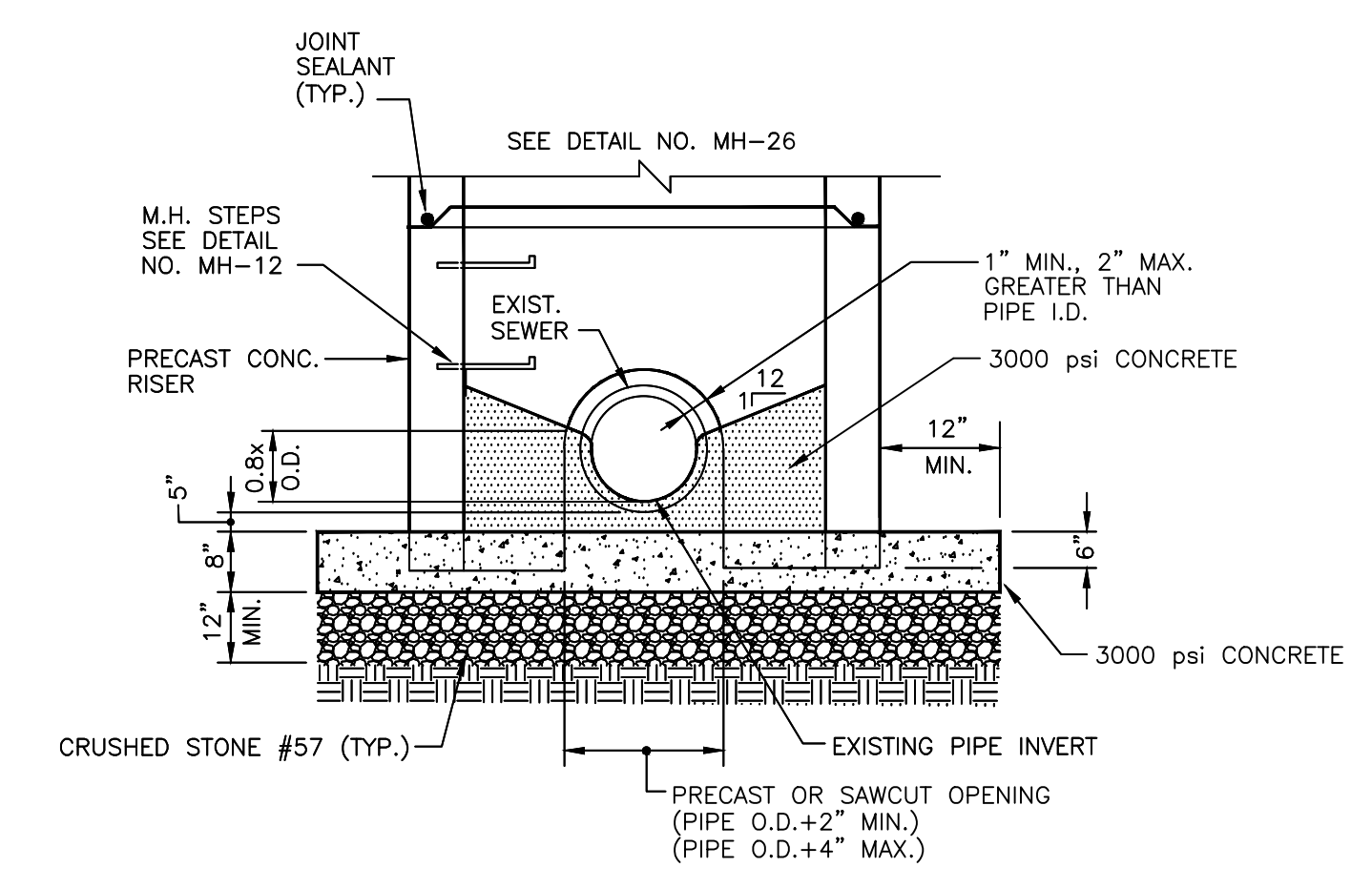
SHEET  
 EC-2





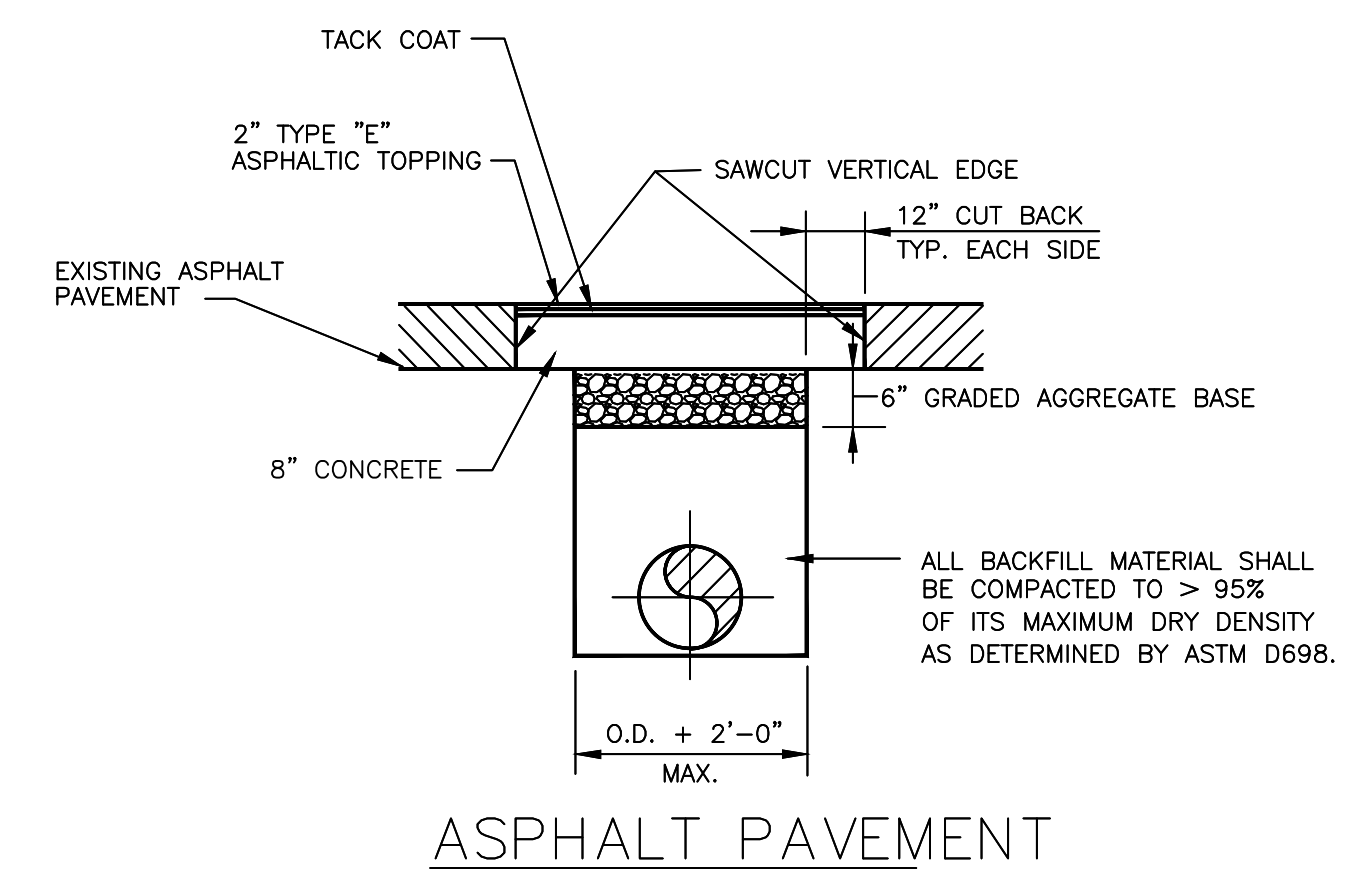
NOTE:  
STEPS SHALL BE PLACED INTO WET  
CONCRETE WALL DURING MANUFACTURE  
OR MORTARED INTO HOLES AFTER  
CONCRETE HAS SET

**MANHOLE STEPS** 27  
GC-4



NOTE:  
1. USE BOOTS FOR PIPES ≤ 42" DIAMETER.  
2. TYPE I IS FOR MECHANICALLY ATTACHED  
TYPE BOOTS.  
3. TYPE II IS FOR CAST-IN BOOTS.

**BOOT CONNECTION** 29  
GC-4

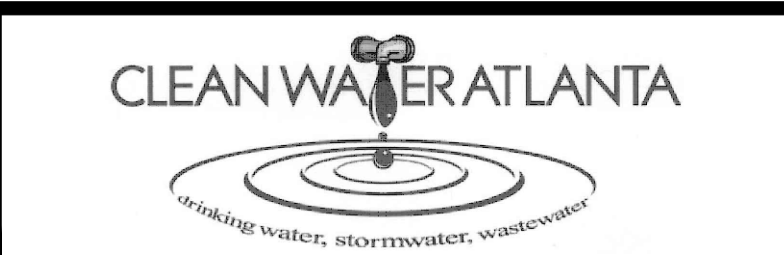


**TYPE III PAVEMENT REPLACEMENT** 30  
GC-4

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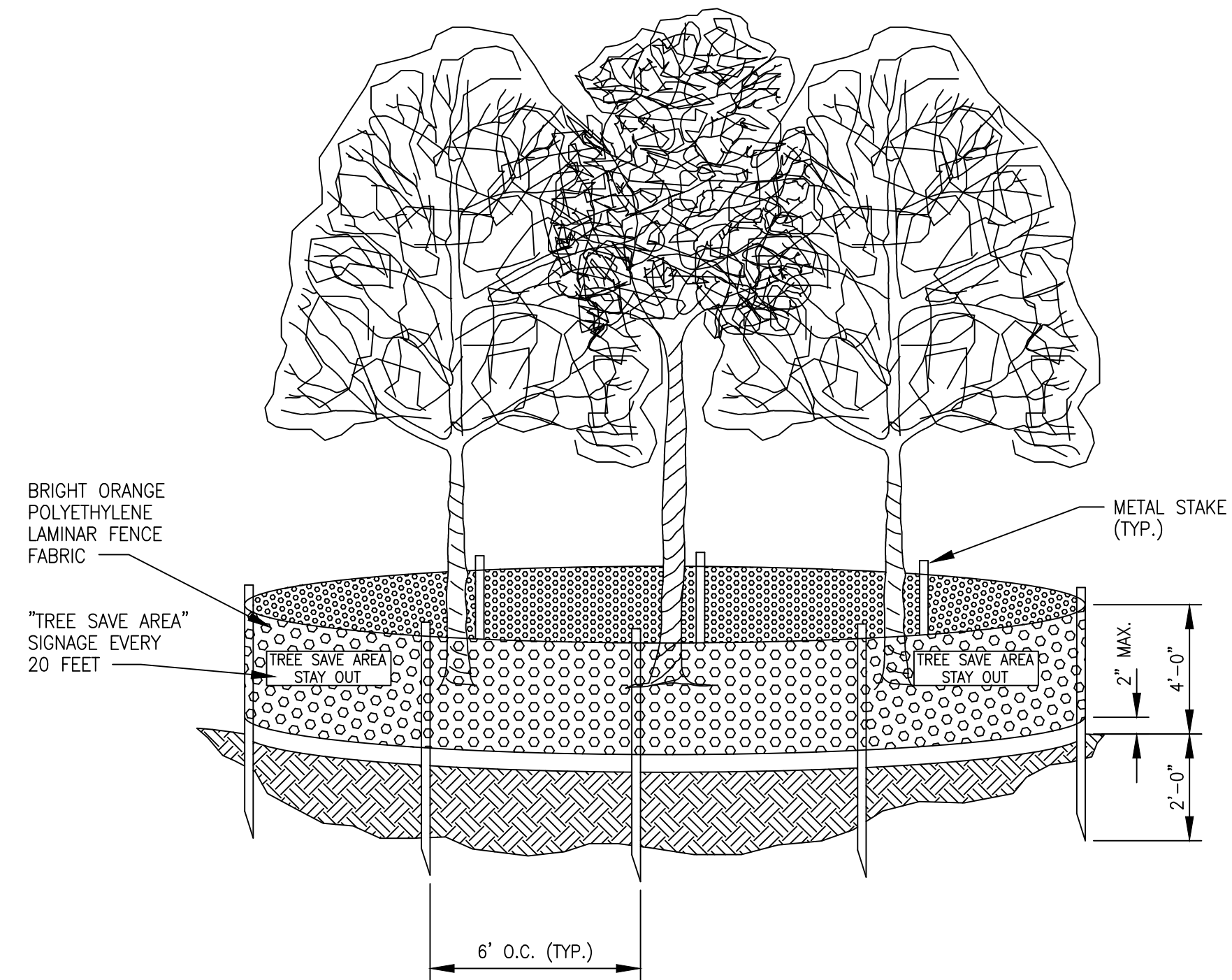
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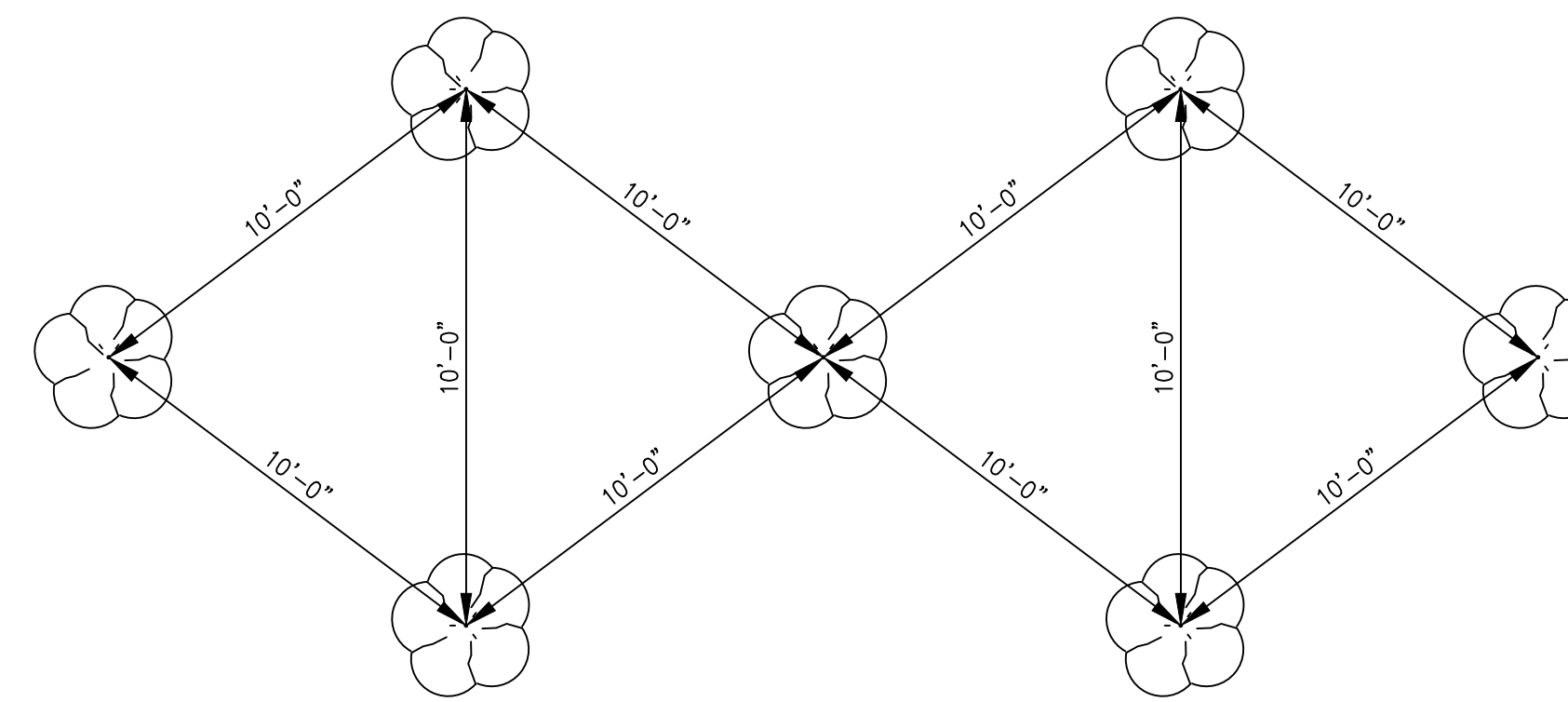
SEWER REHABILITATION	SHEET
STANDARD DETAILS - 5	GC-5





ALL TREE PROTECTION FENCE MUST BE ACCOMPANIED BY "KEEP OUT" OR "TREE SAVE" SIGNAGE. TREE PROTECTION FENCING SIGNS WILL BE AVAILABLE AT FULTON COUNTY GOVERNMENT IN THE DEPARTMENT OF ENVIRONMENT AND COMMUNITY DEVELOPMENT AT THE CASHIERS COUNTER. (PER FULTON COUNTY TREE PRESERVATION ORDINANCE ADOPTED BY THE BOARD OF COMMISSIONERS DECEMBER 1, 1999 EFFECTIVE 1/1/2000.

TREE PROTECTION DETAIL  
N.T.S.



TREE REPLANTED MINIMUM SPACING PLAN  
N.T.S.

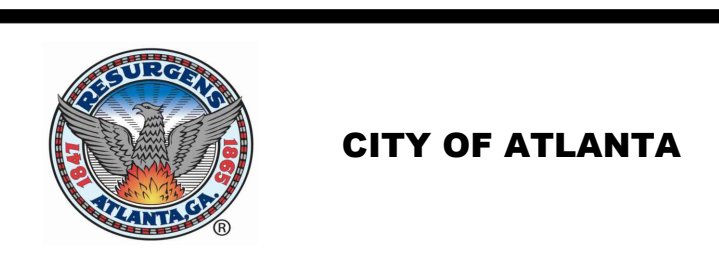
NOTES:

- IF THE LANDSCAPE DESIGN OR PLANT MATERIAL ARE CHANGED IN ANY WAY FROM THE CITY OF ATLANTA PERMITTED PLAN, YOU SHALL SUBMIT 2 SETS OF REVISED PLANS TO THE CITY OF ATLANTA ARBORIST'S OFFICE FOR APPROVAL PRIOR TO ANY LANDSCAPE INSTALLATION.
- CONTACT THE CITY ARBORIST AT 404-817-6754 TO ARRANGE A PRECONSTRUCTION MEETING PRIOR TO ANY LAND DISTURBANCE. ALL REQUIRED TREE FENCE MUST BE INSTALLED PRIOR TO THIS MEETING. UNDISTURBED BUFFERS SHALL BE REPLANTED TO BUFFER STANDARDS WHERE SPARSELY VEGETATED OR WHERE DISTURBED AT APPROVED UTILITY CROSSINGS. REPLANTING IS SUBJECT TO COUNTY ARBORIST APPROVAL.
- ALL LANDSCAPING FOR EACH PHASE OF DEVELOPMENT SHALL BE COMPLETED PRIOR TO THE RECORDING OF THE FINAL PLAT FOR THAT PHASE, PRIOR TO THE ISSUANCE OF CERTIFICATE OF OCCUPANCY FOR THAT PHASE, OR PRIOR TO CONNECTION OF PERMANENT POWER FOR THAT PHASE. CONTACT THE CITY ARBORIST FOR SITE INSPECTION UPON COMPLETION OF LANDSCAPE INSTALLATION.
- PROVISIONS FOR TREE PROTECTION ON THE SITE SHALL BE, AS A MINIMUM, IN CONFORMANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE CITY OF ATLANTA TREE PRESERVATION ORDINANCE AND ADMINISTRATIVE GUIDELINES PERTAINING TO TREE PROTECTION.
- TREES TO BE PROTECTED SHALL HAVE FENCING A NUMBER OF LINEAR FEET AWAY FROM TREE THAT IS EQUAL TO THE NUMBER OF INCHES THE DIAMETER OF THE TREE.
- PLANTING OF TREES SHALL OCCUR IN OPTIMUM TREE PLANTING SEASON PRIOR TO COMPLETION OF PROJECT.

REV	DATE	BY	DESCRIPTION

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SEWER REHABILITATION	SHEET
LANDSCAPE AND TREE PROTECTION DETAILS	LP-1