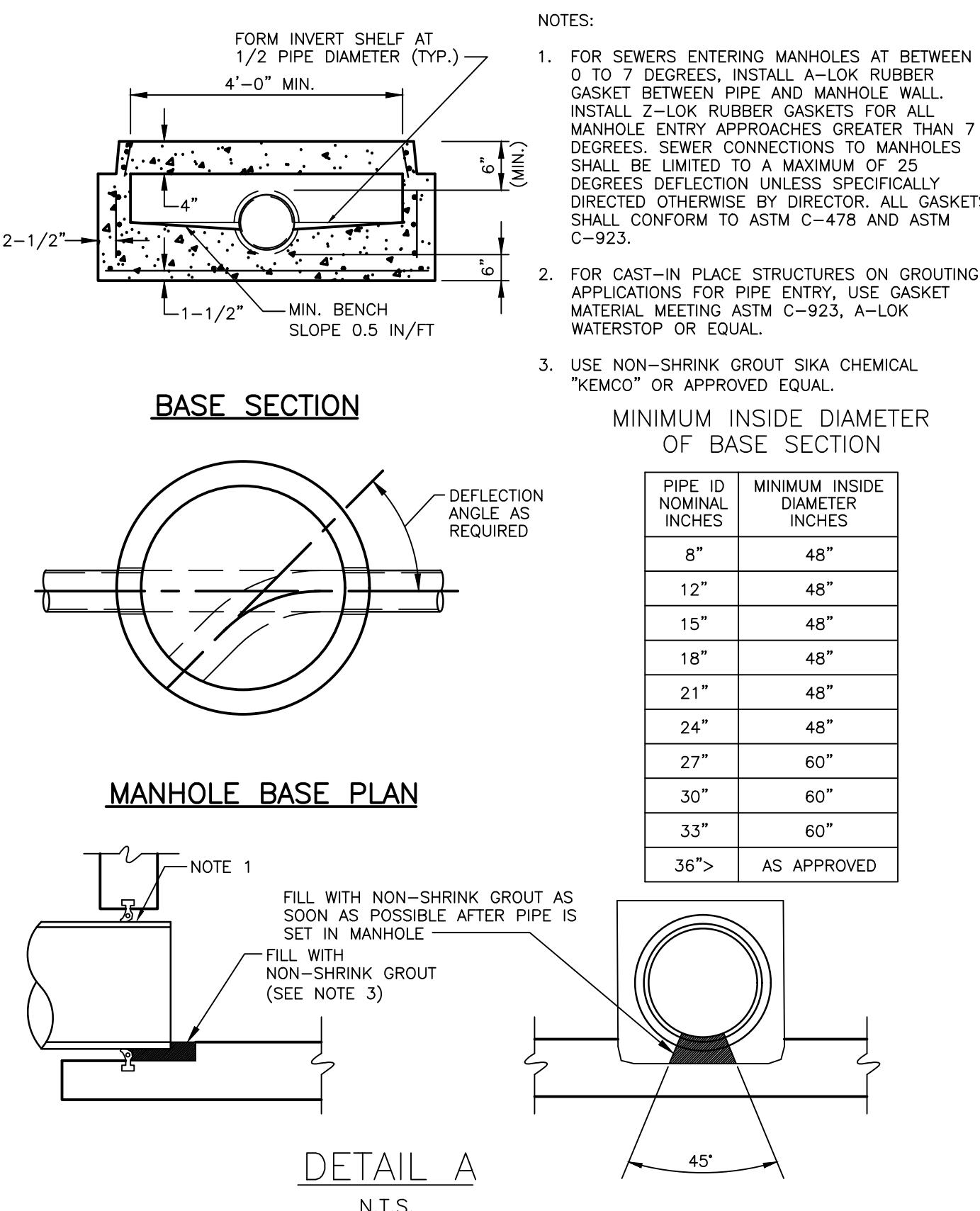
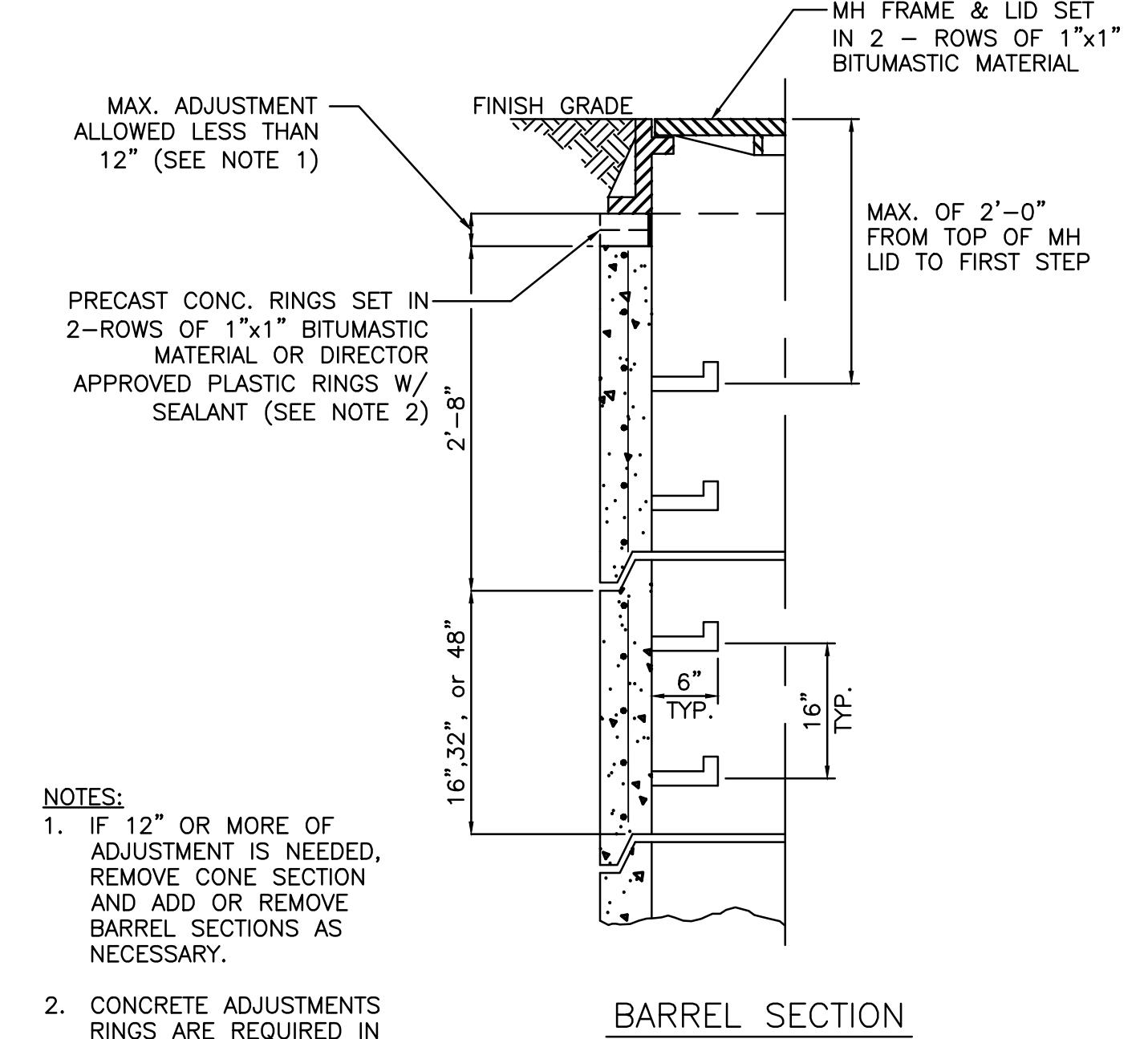


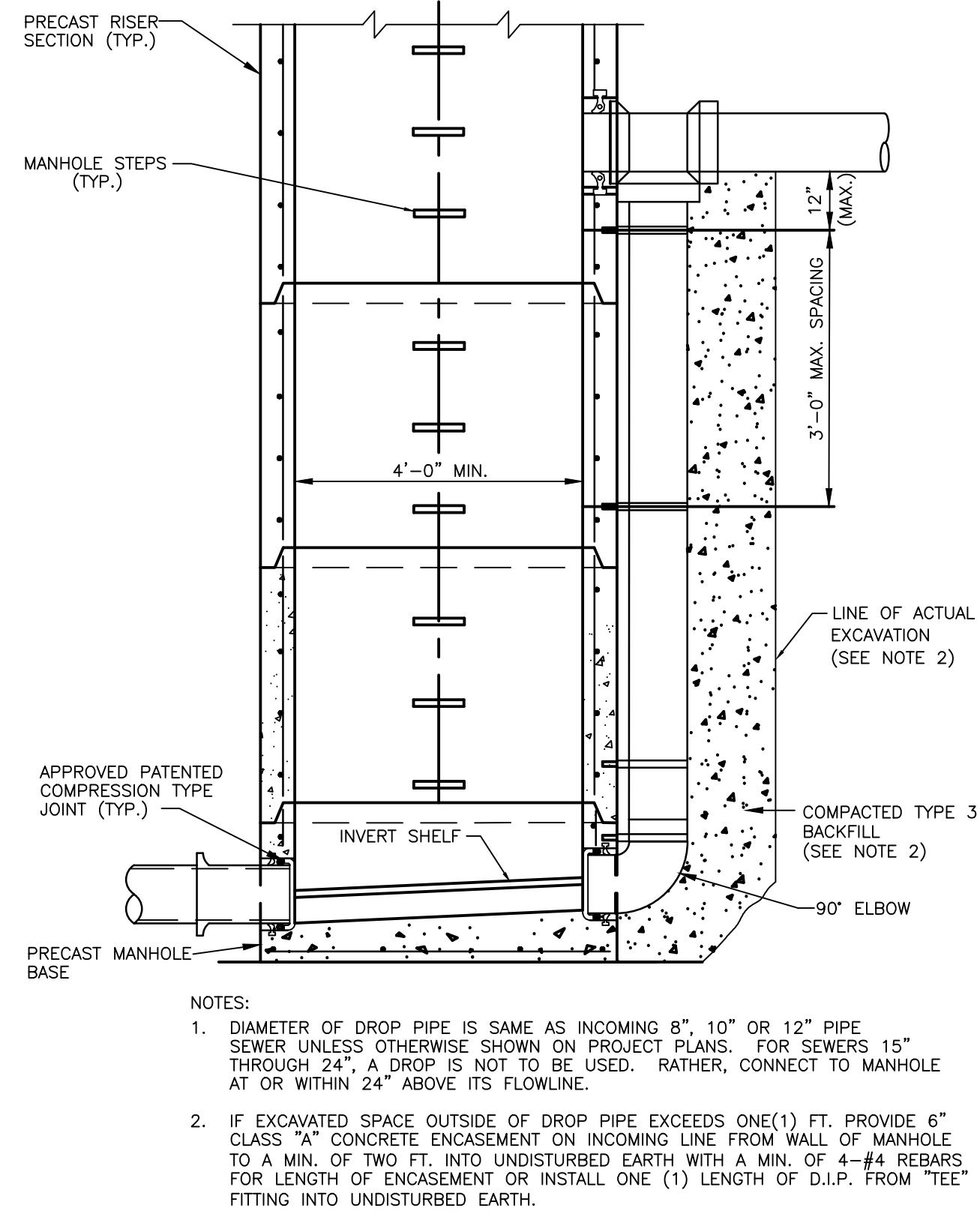
PRECAST MANHOLE SECTION S-01



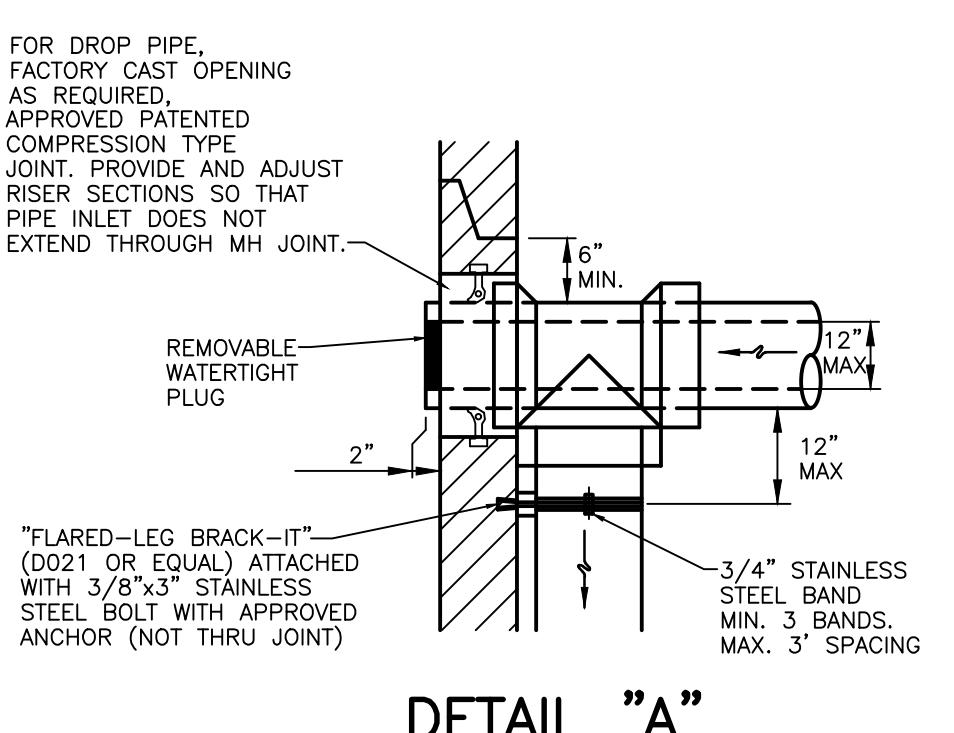
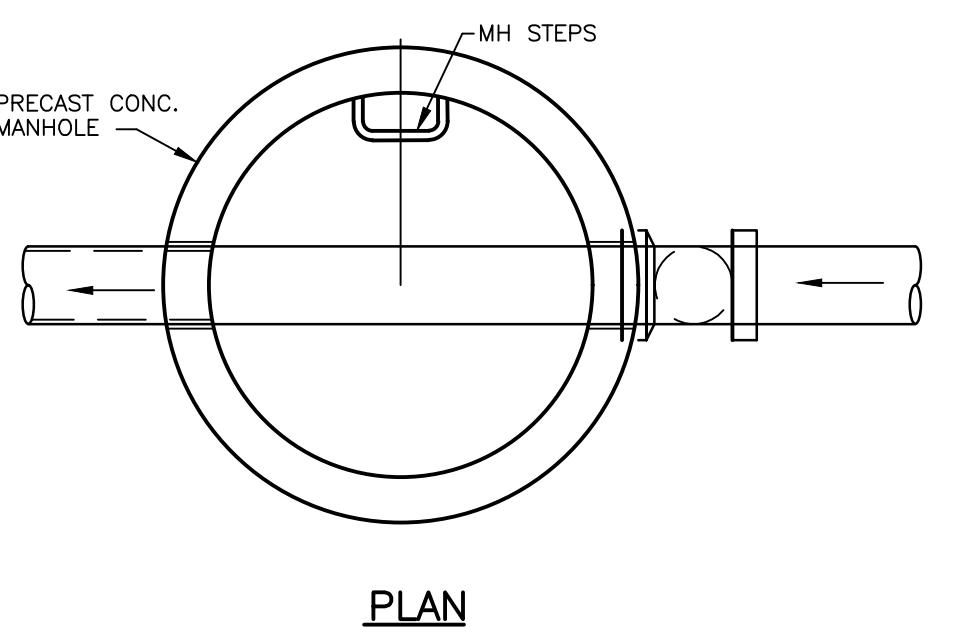
PRECAST MANHOLE DETAILS & PLANS S-02



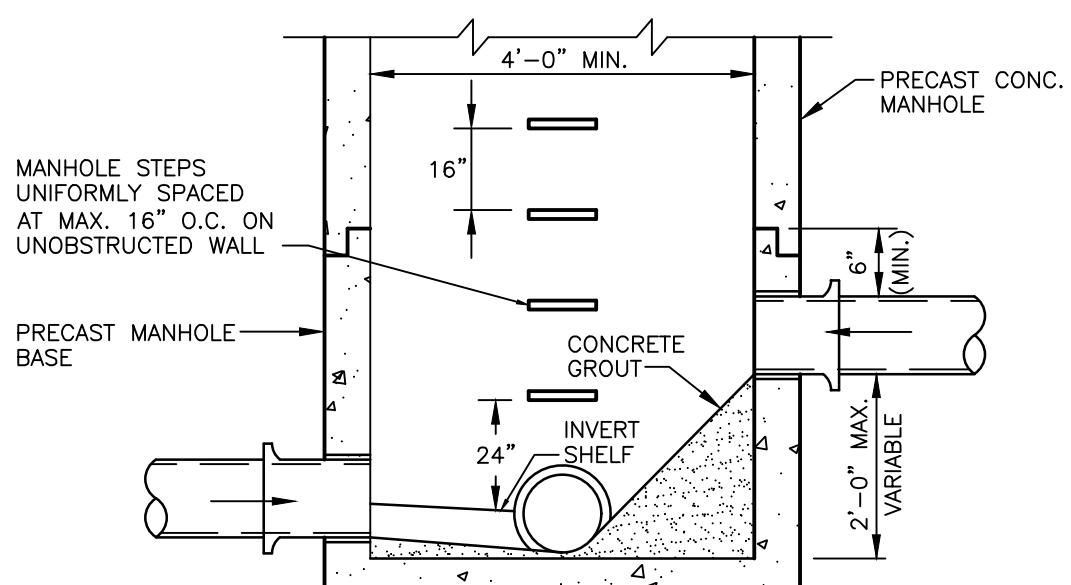
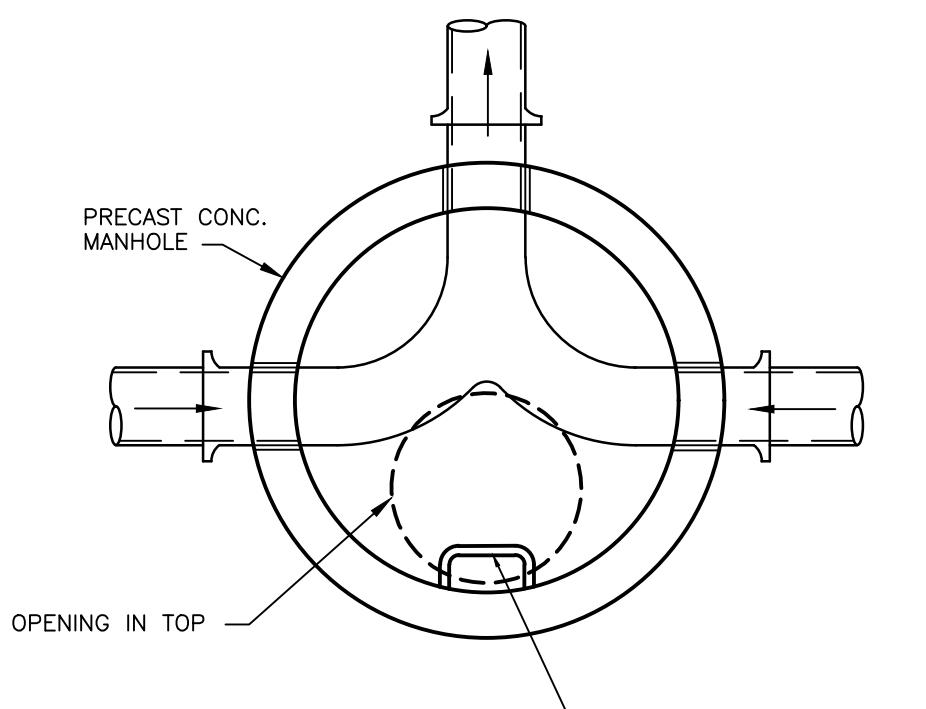
MANHOLE ADJUSTMENT S-03



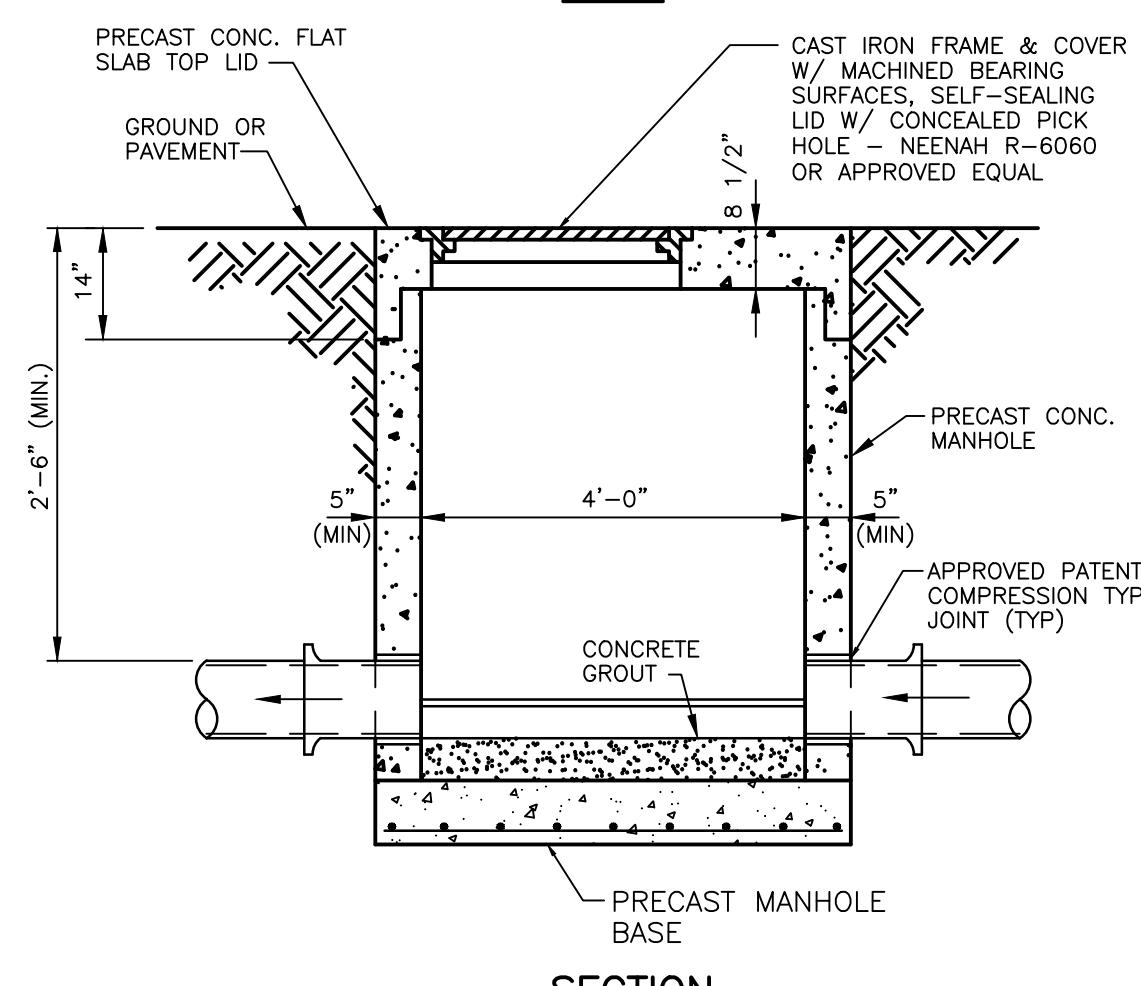
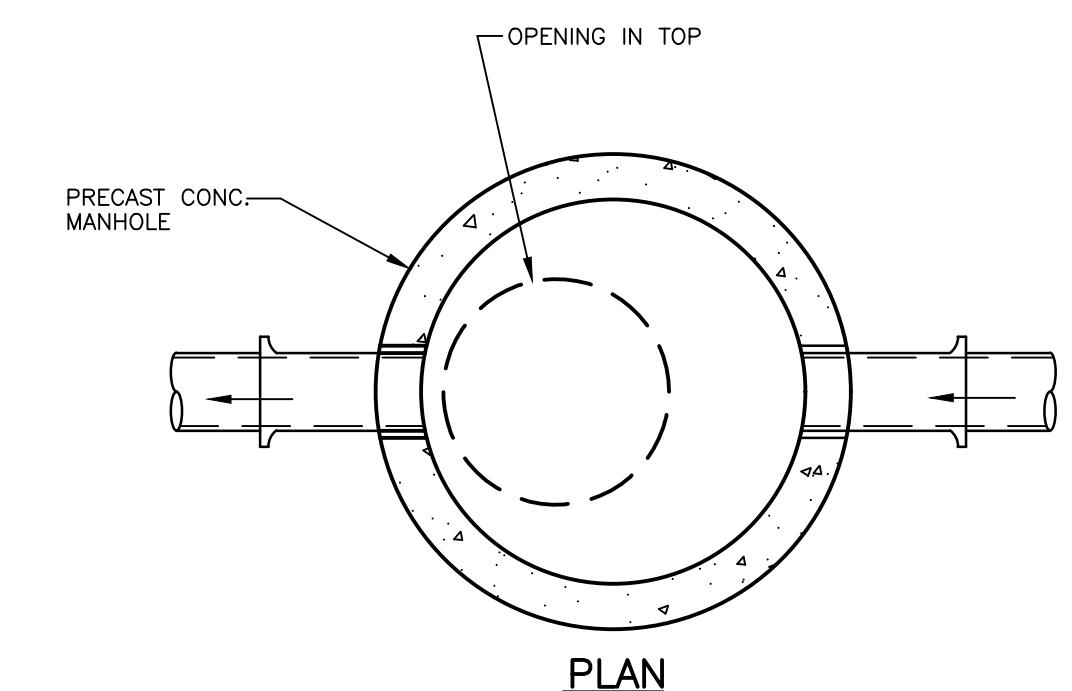
OUTSIDE DROP MANHOLE SECTION VIEW S-04



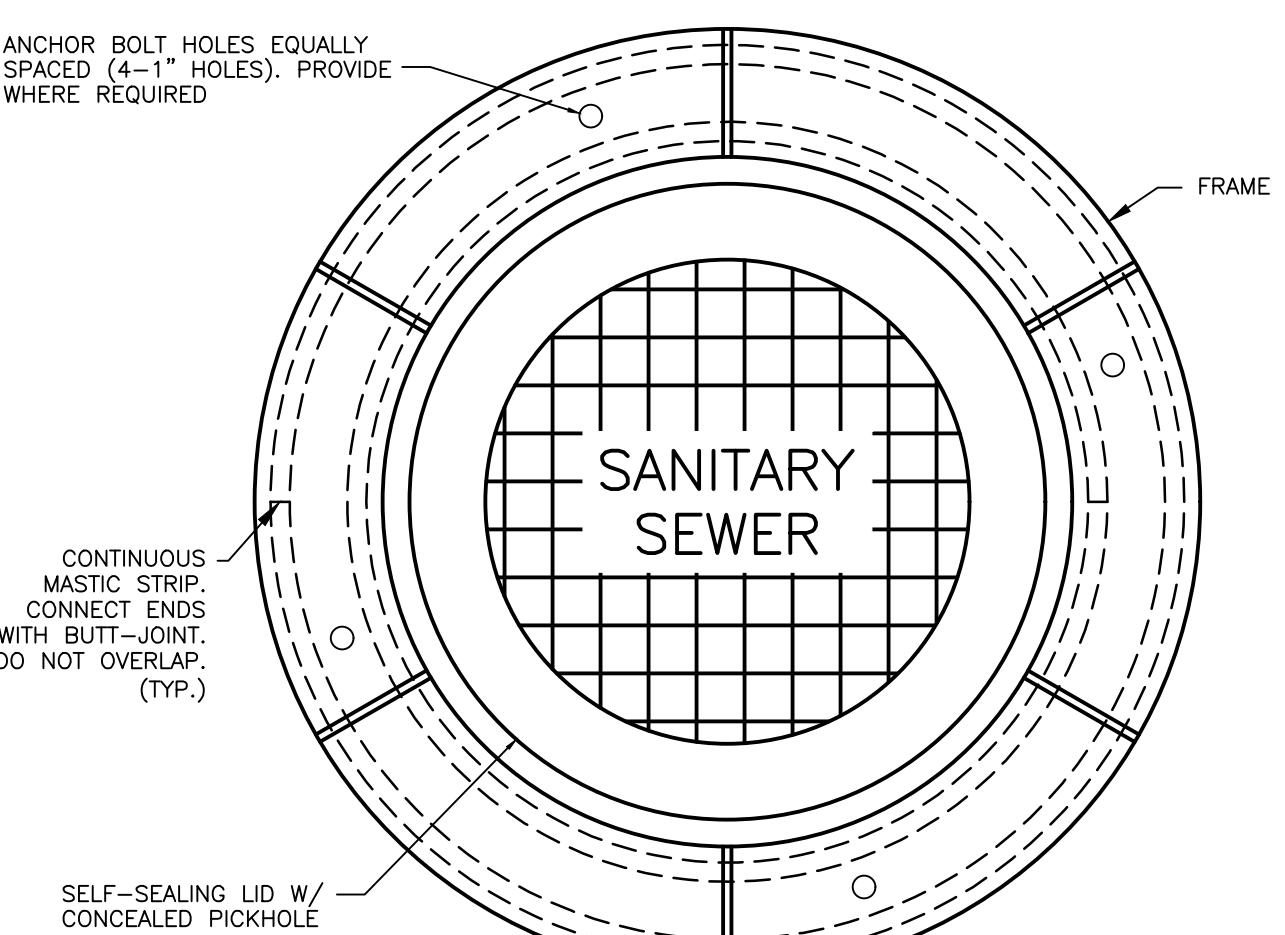
OUTSIDE DROP MANHOLE PLAN VIEW & DETAIL S-05



INSIDE DROP MANHOLE S-06



SHALLOW MANHOLE S-07

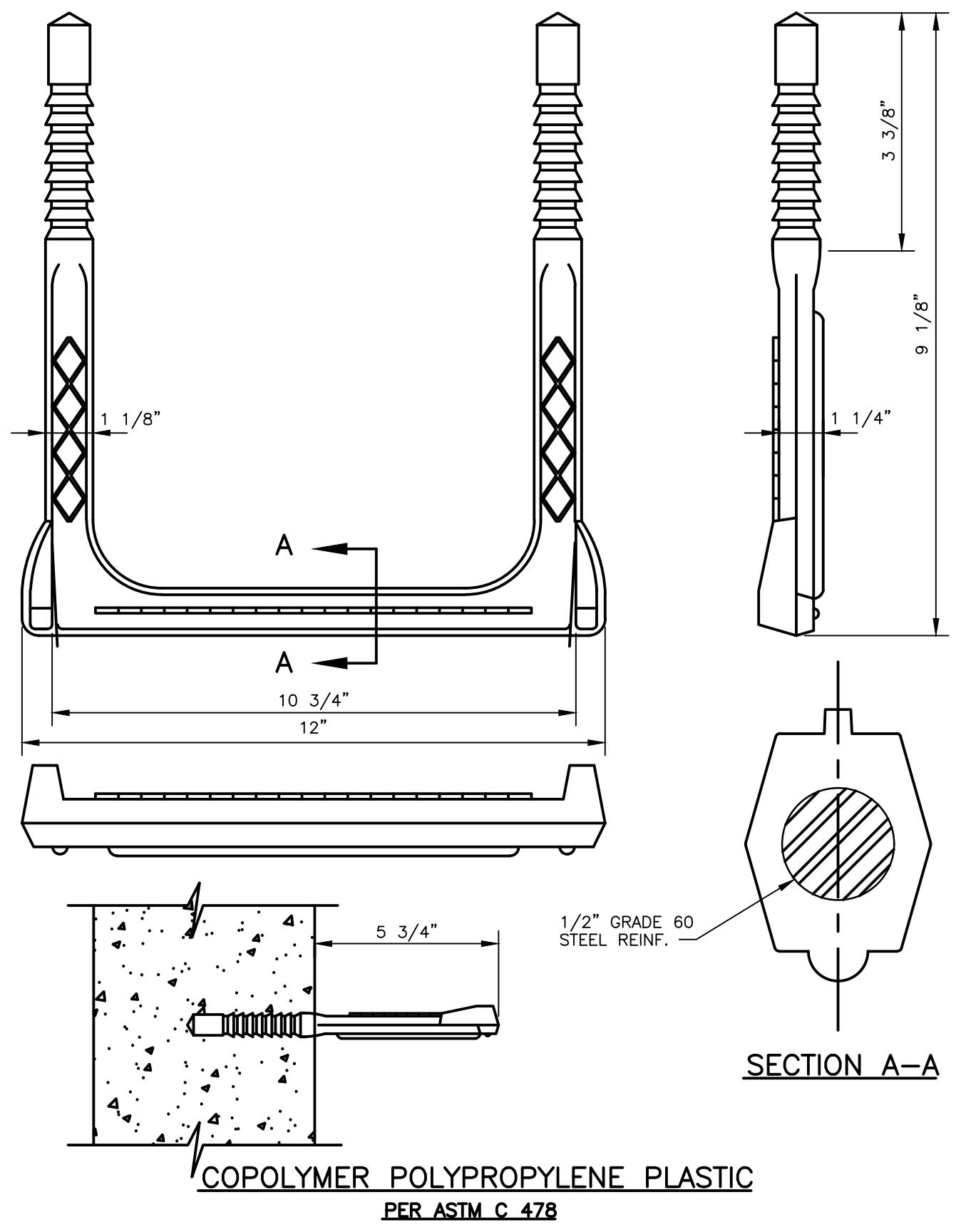


STANDARD CAST IRON MANHOLE FRAME & COVER S-08

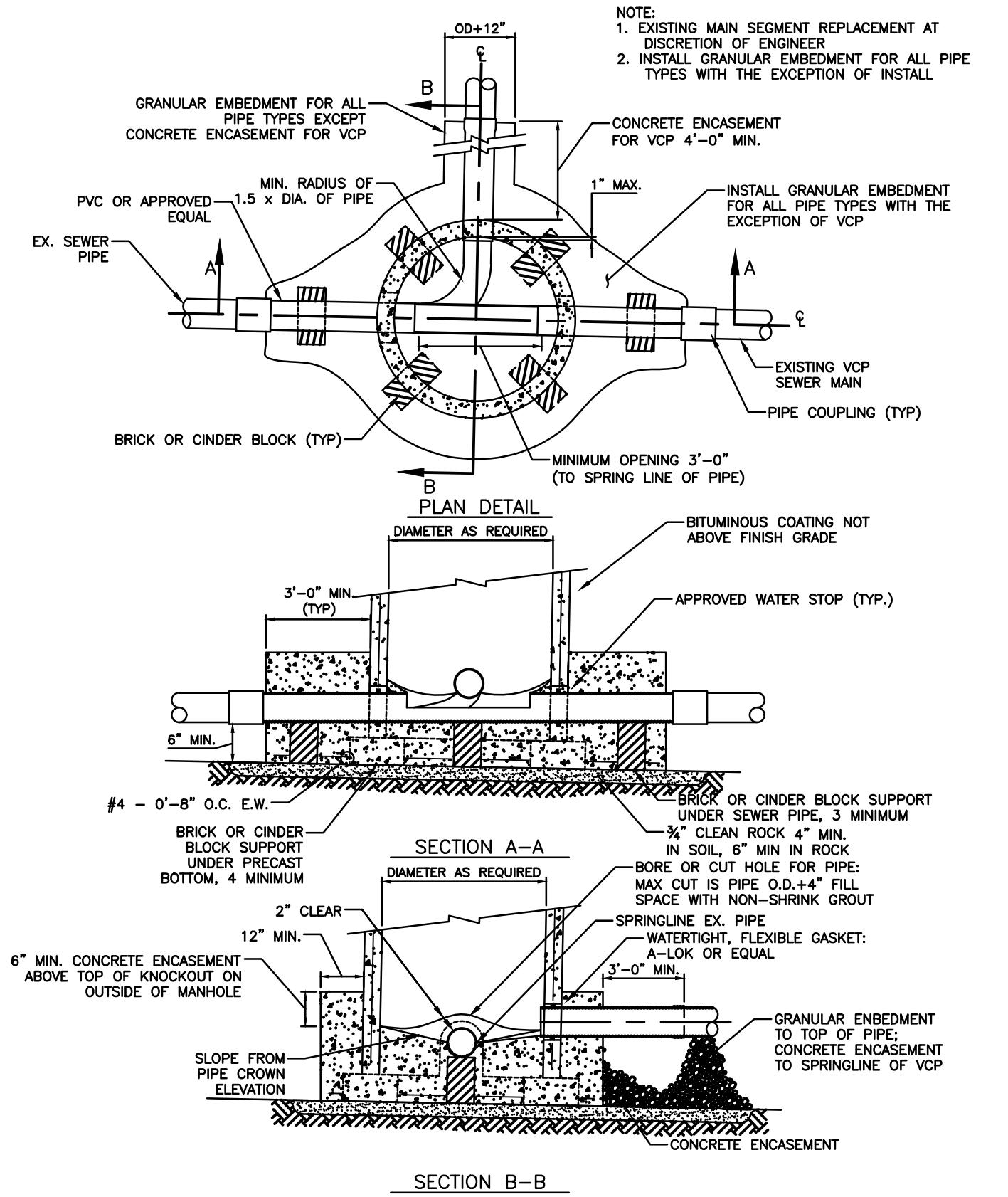
NO.	DATE	REVISIONS	BY

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

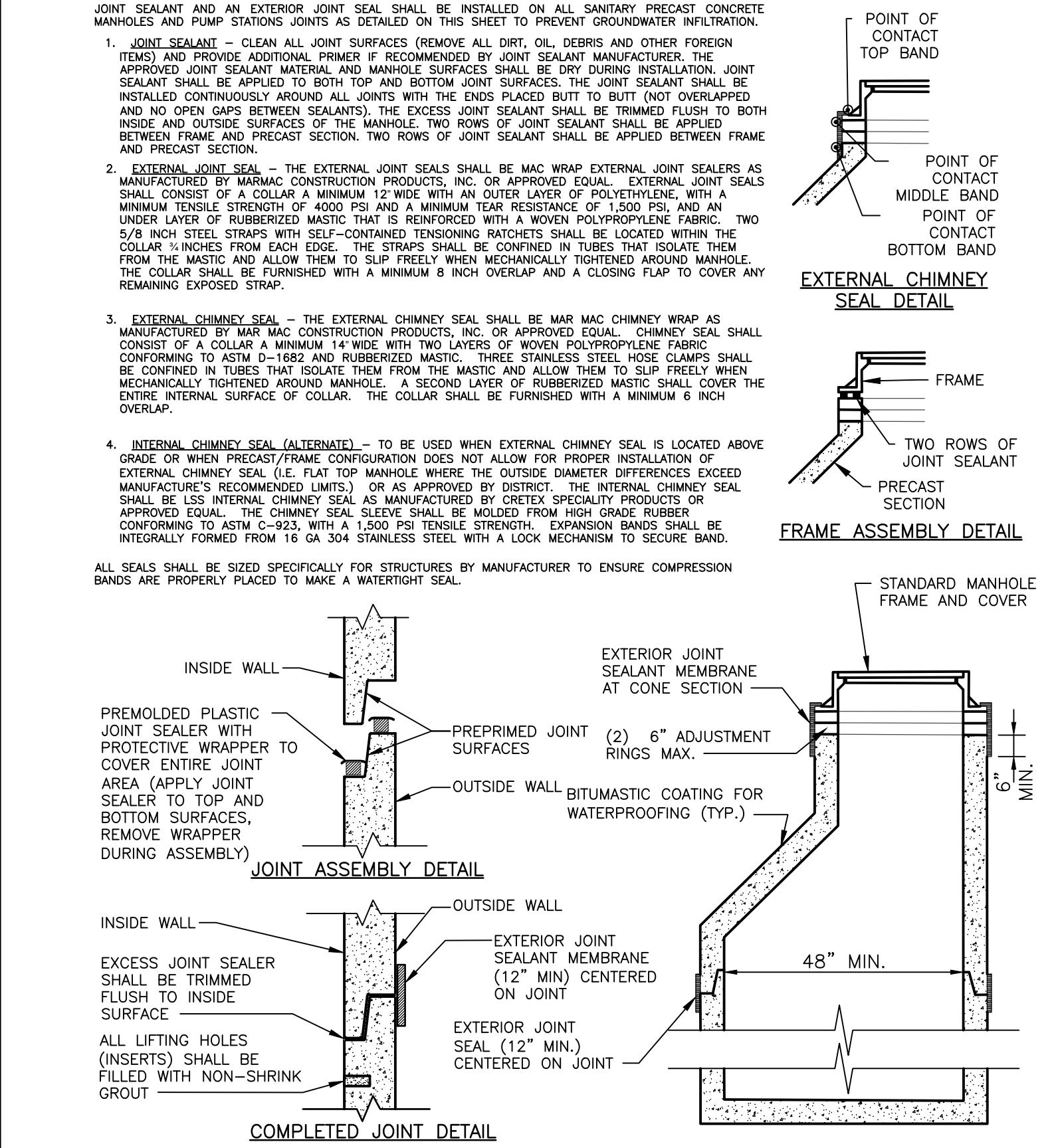
DATE: 4/8/2021  
VERT. N.T.S.



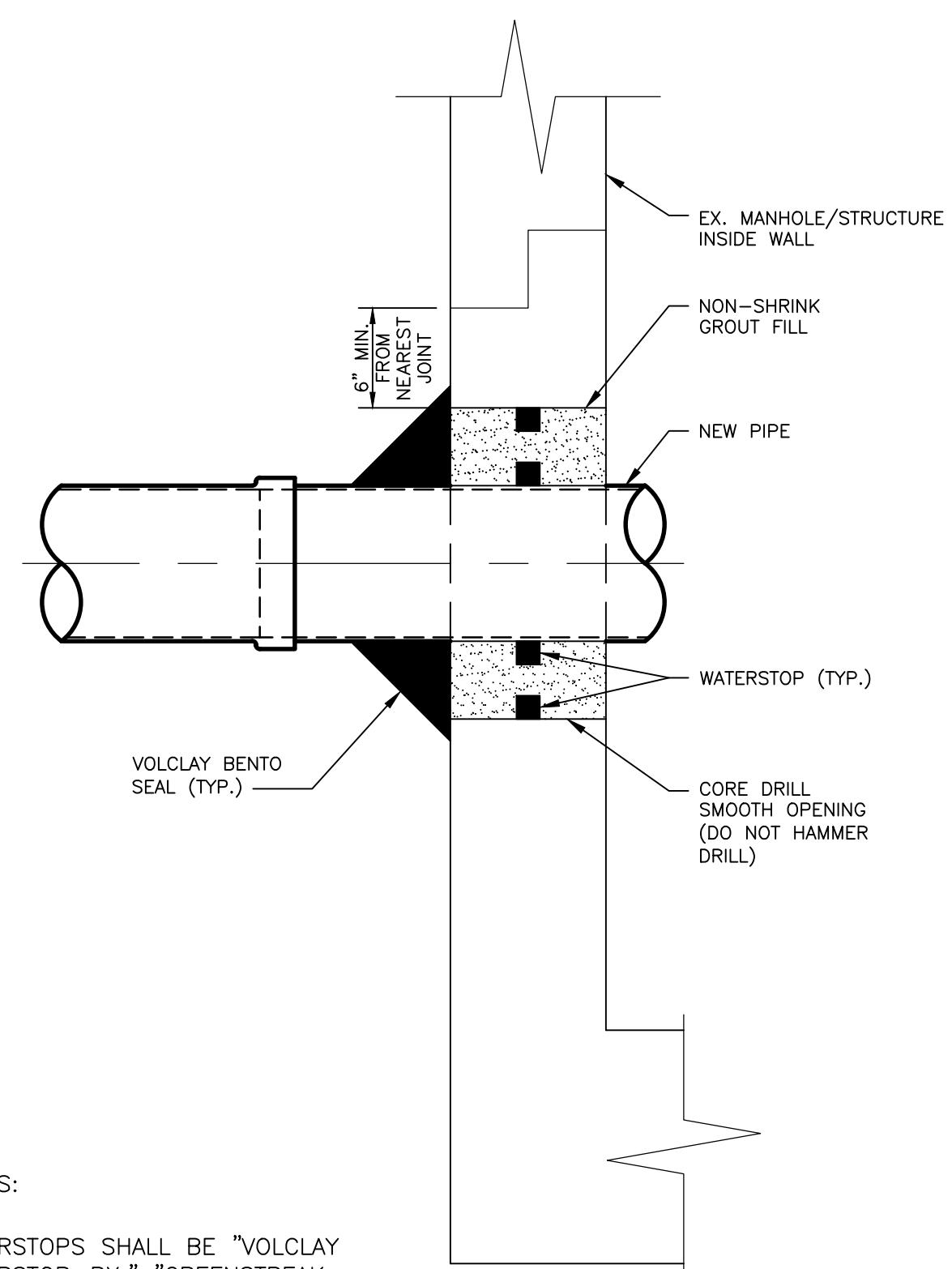
MANHOLE STEP FOR PRECAST  
MANHOLE S-09



DOGHOUSE MANHOLE S-10



JOINT SEALANT AND EXTERIOR  
JOINT SEALANT MEMBRANE S-11

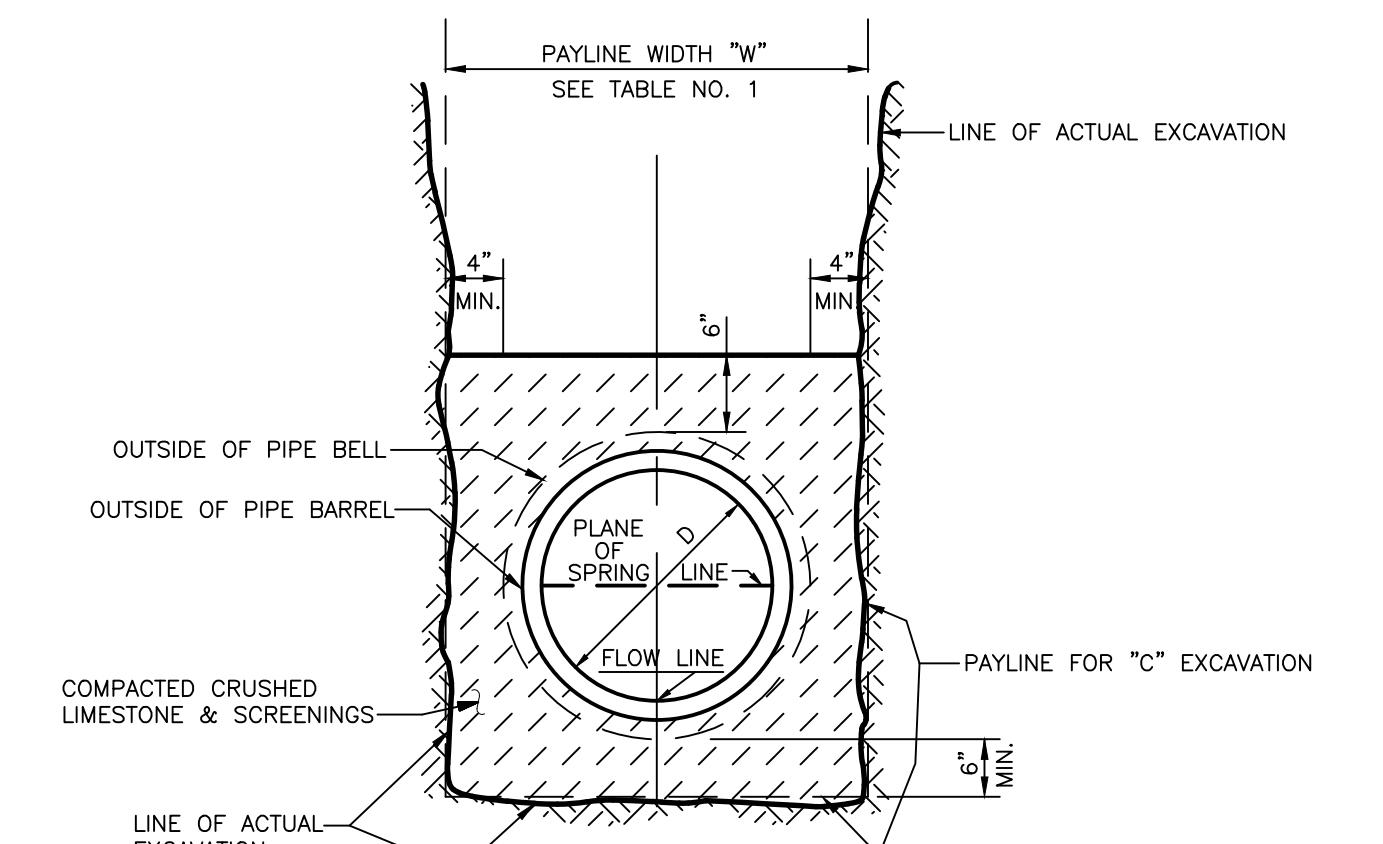


NEW PIPE CONNECTION TO  
EXISTING MANHOLE / STRUCTURE S-12

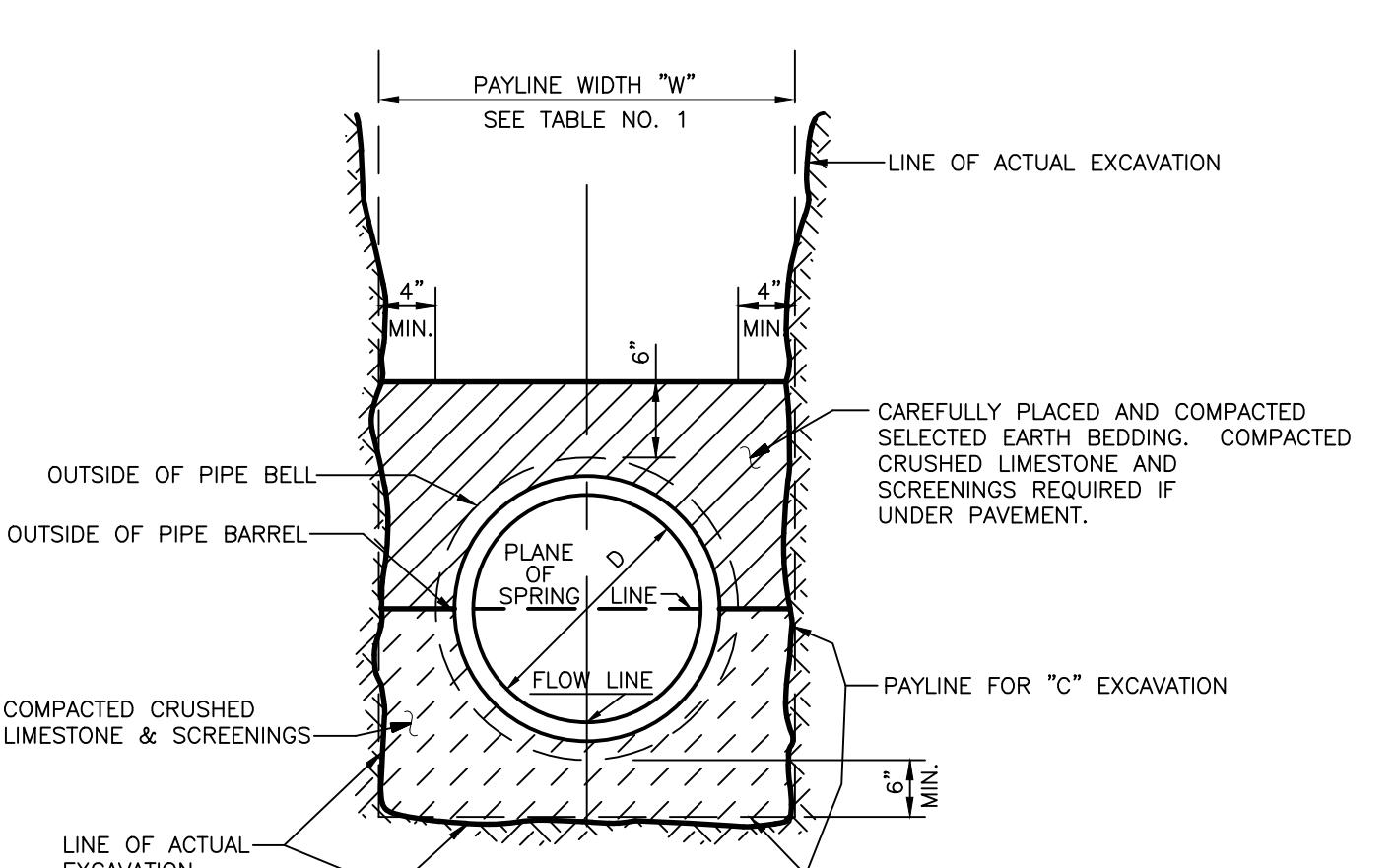
ROUND PIPE				
"D" INSIDE DIAMETER OF PIPE (INCHES)	"W" PAYLINE WIDTH OF TRENCH (INCHES)	"W" PAYLINE WIDTH OF TRENCH (FEET)	PAY VOLUMES CU. FT. PER FT.	CONCRETE ENCASMENT
4	30	2.50	3.28	
6	30	2.50	3.59	
8	30	2.50	3.87	
10	30	2.50	4.09	
12	30	2.50	4.25	
15	36	3.00	5.55	
18	36	3.00	5.77	
21	39	3.25	6.61	
24	42	3.50	7.39	
27	45	3.75	8.18	
30	49	4.08	9.30	
33	53	4.42	10.53	
36	56	4.67	11.43	
39	DISCONTINUED			
42	63	5.25	13.38	
48	70	5.83	15.67	
54	77	6.42	18.15	
60	84	7.00	20.73	

TABLE 1

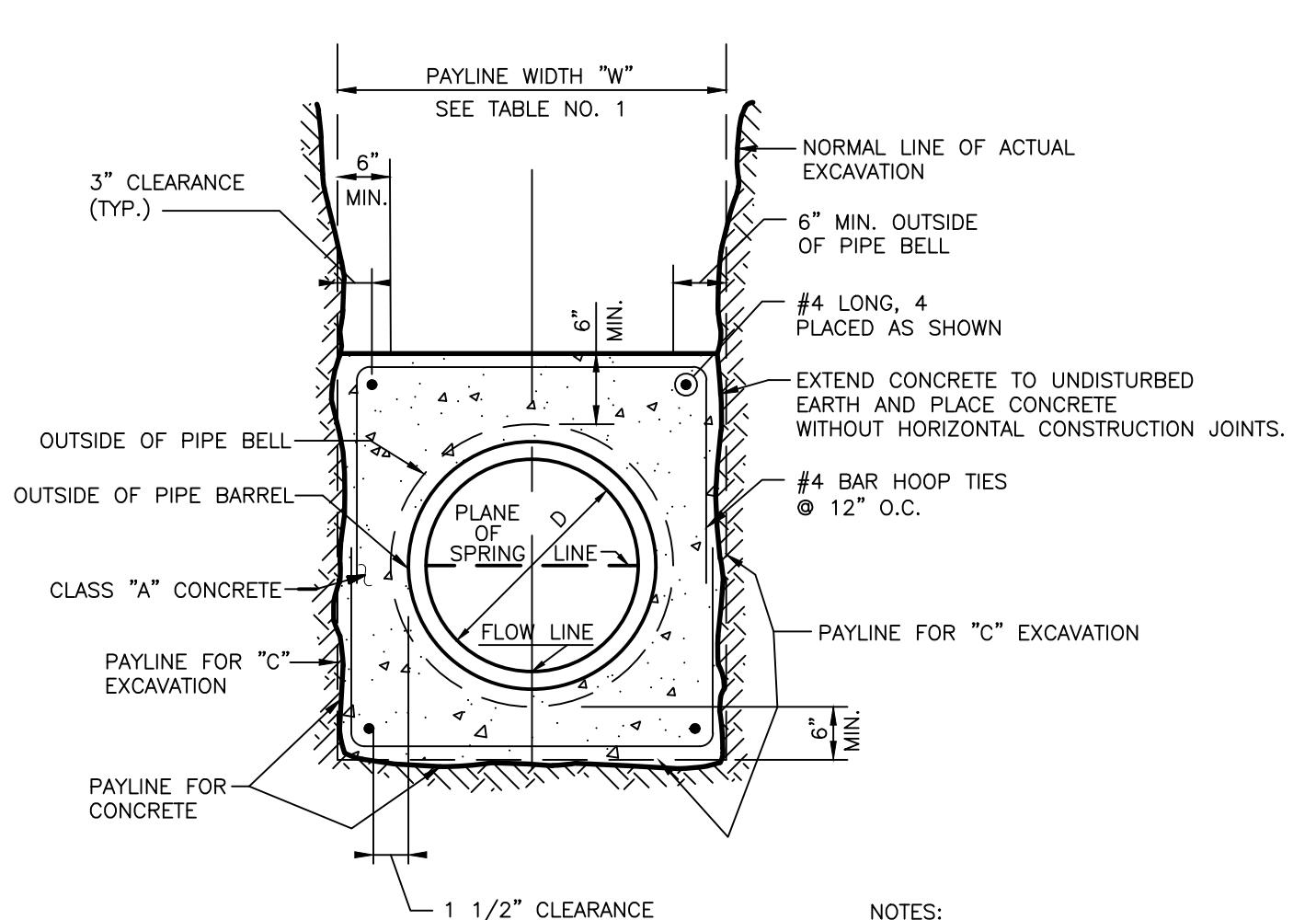
PAYLINE WIDTHS OF TRENCH  
& PAY-QUANTITIES OF CONCRETE S-13



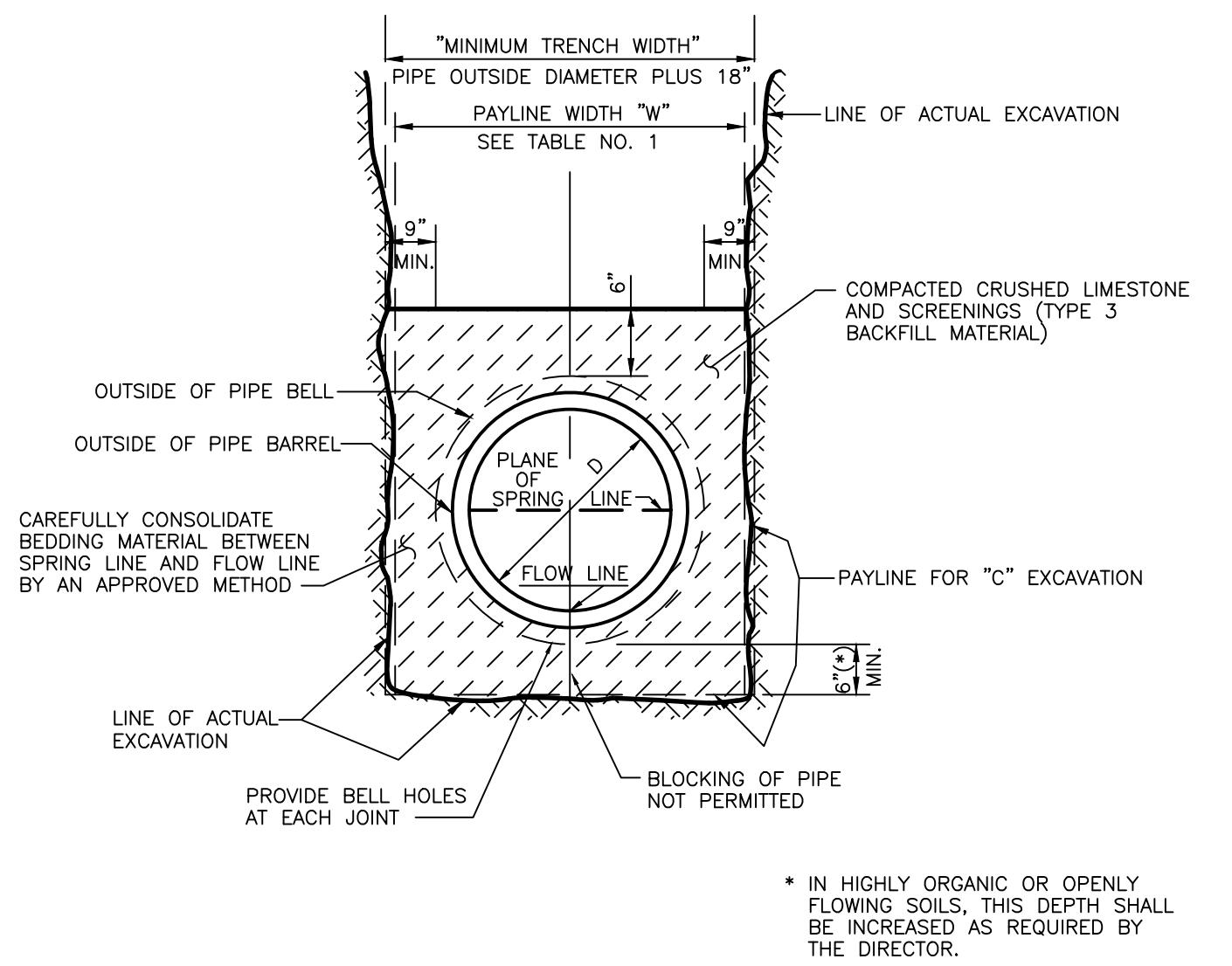
PIPE BEDDING CLASS "C" S-14



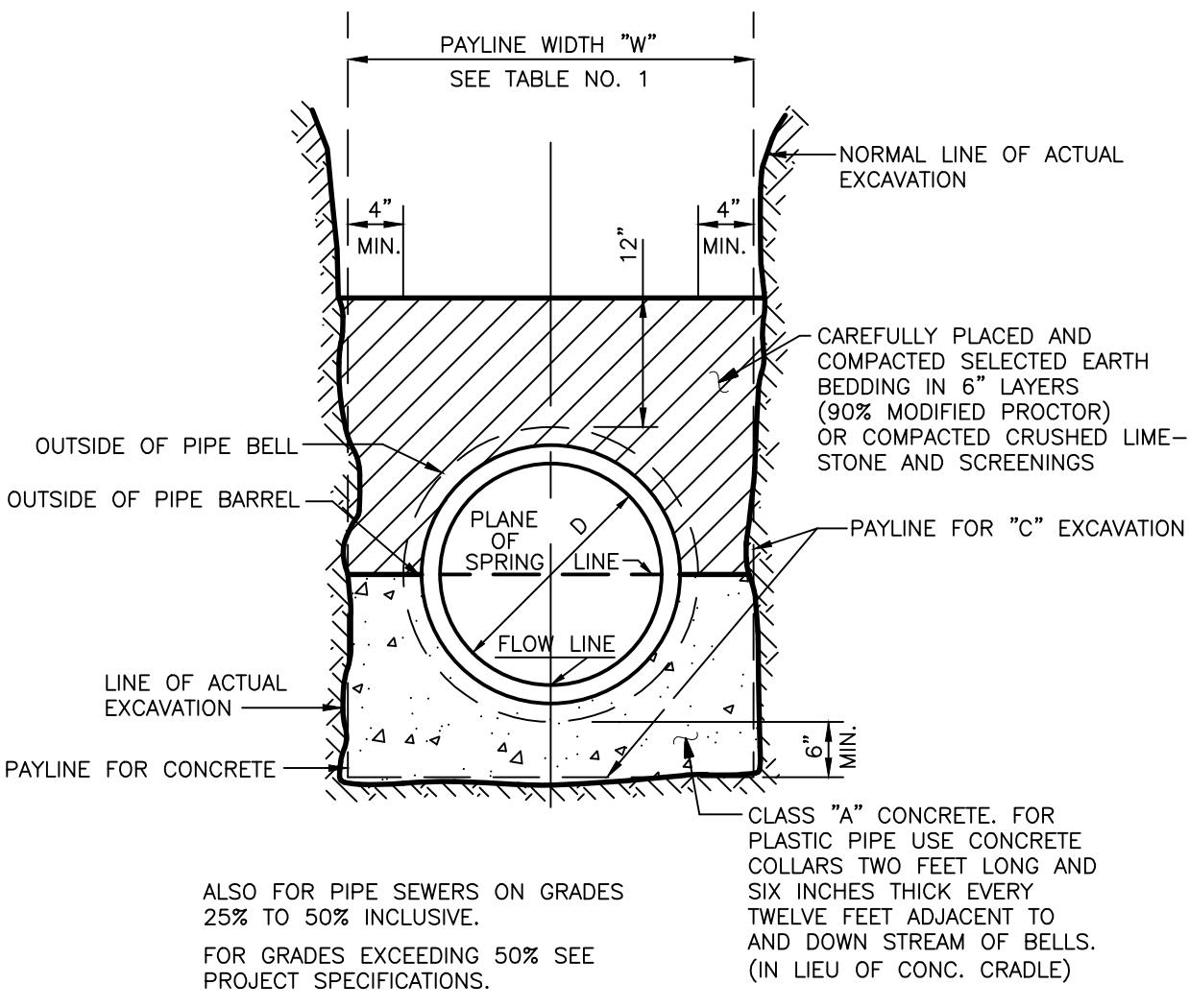
PIPE BEDDING CLASS "C" S-15



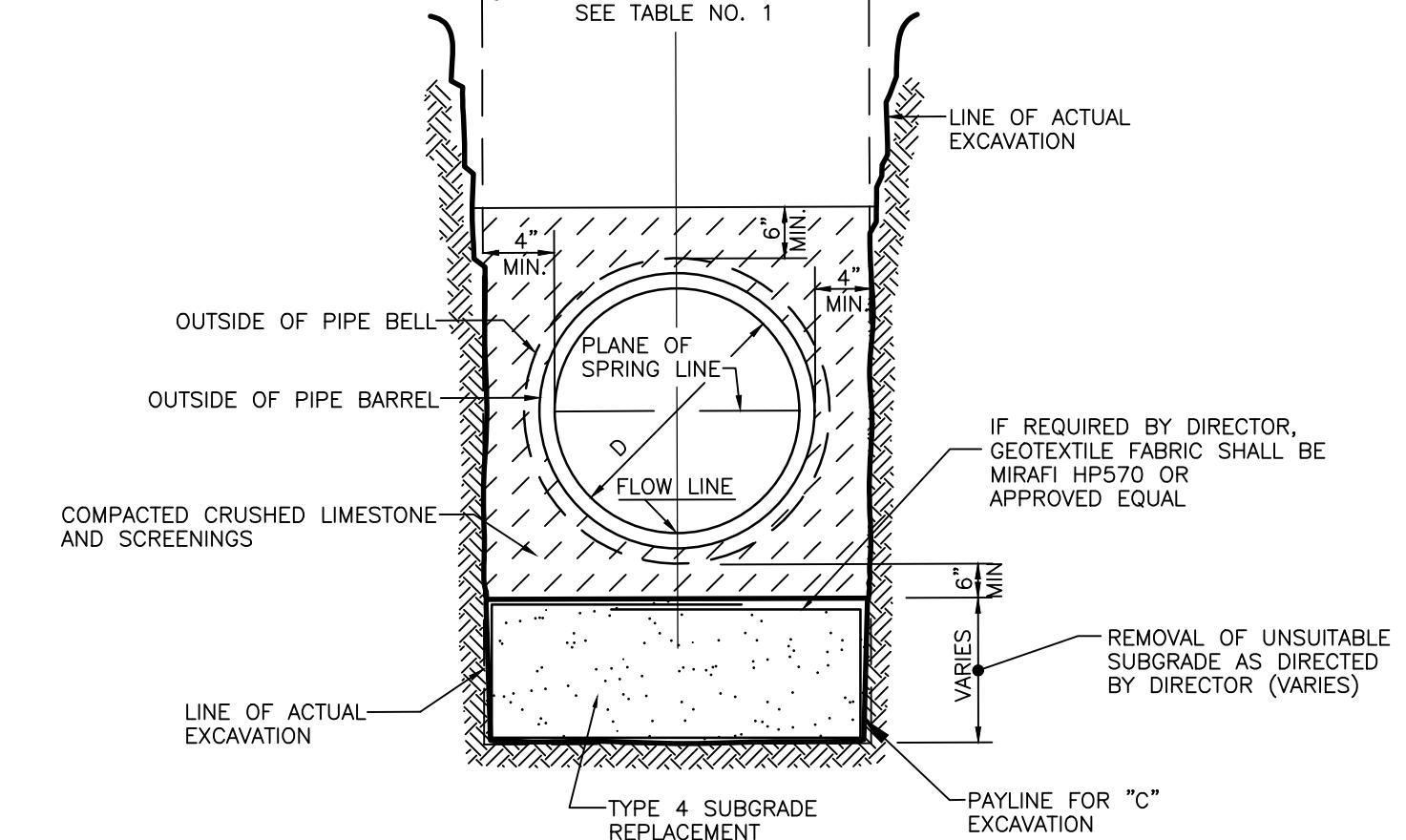
CONCRETE ENCASEMENT S-16



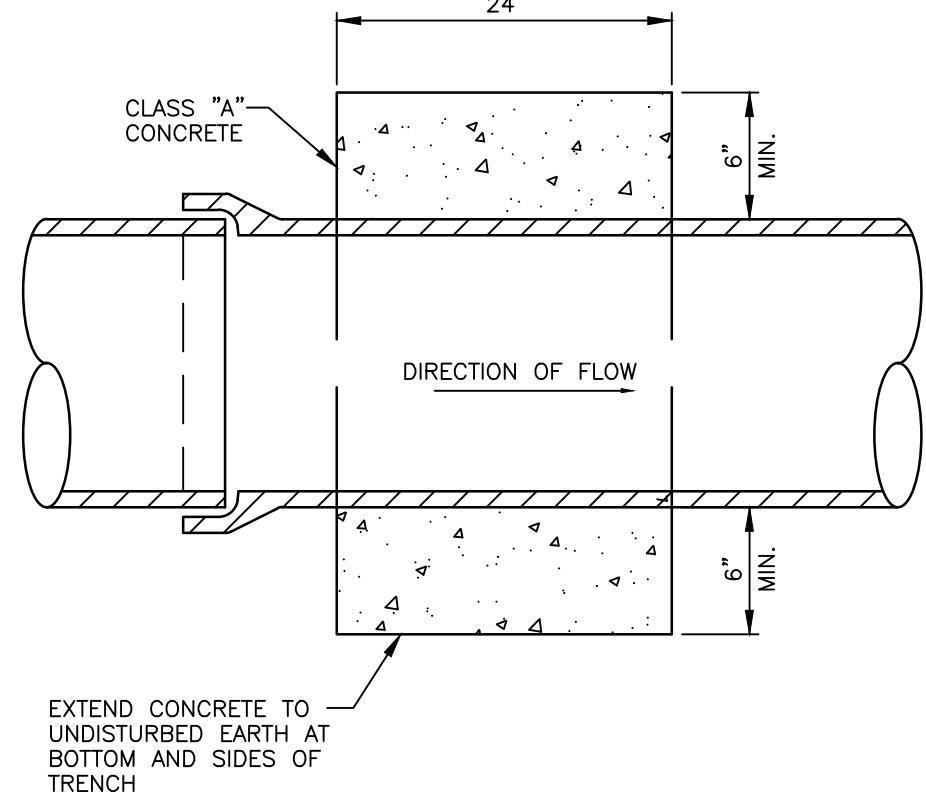
PIPE BEDDING FOR FLEXIBLE PIPE  
(18" TO 48" DIAMETER) S-17



CONCRETE CRADLE  
(CLASS "A" BEDDING) S-18



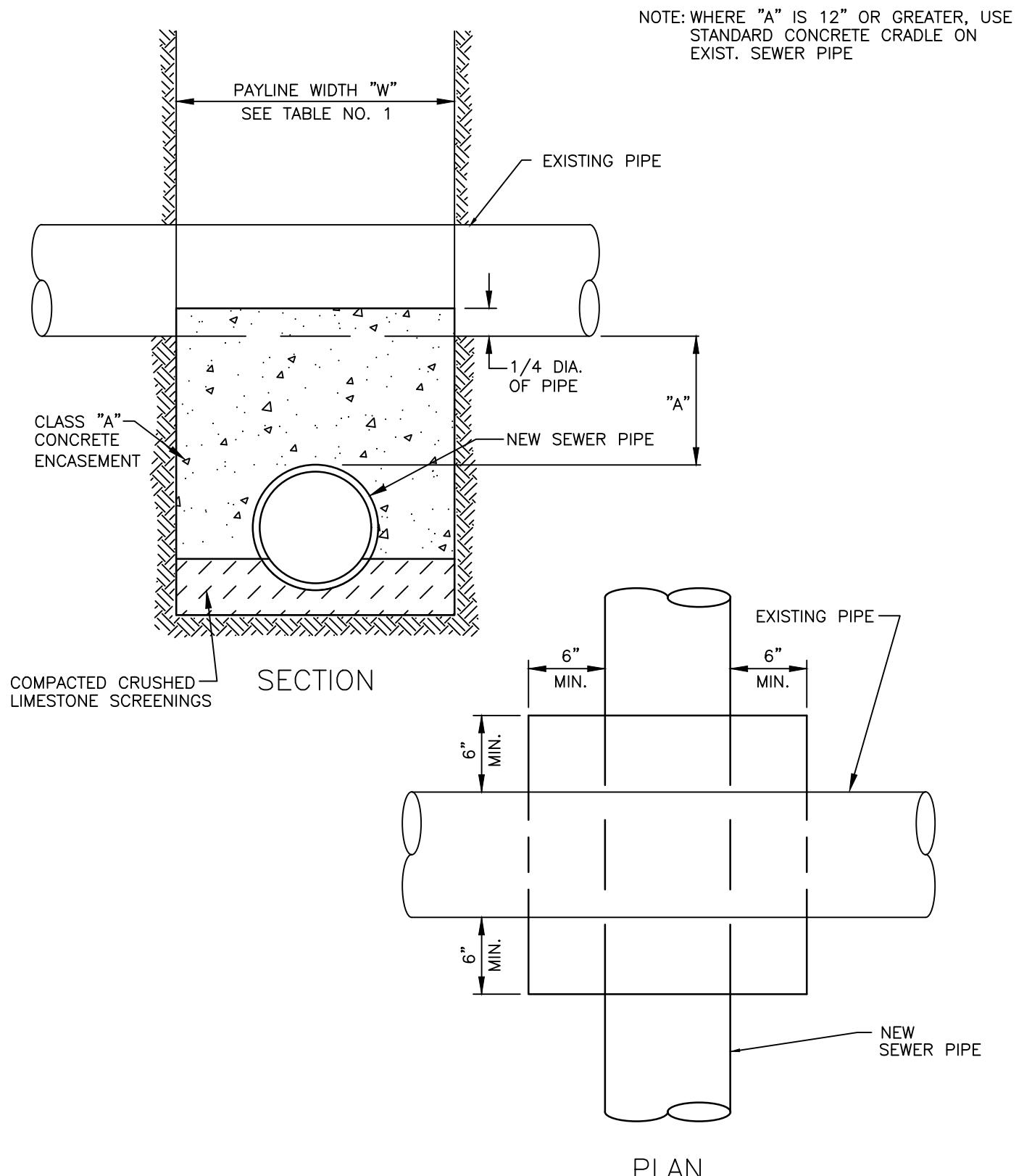
BEDDING OF PIPE LAID ON  
UNSUITABLE SUBGRADE S-19



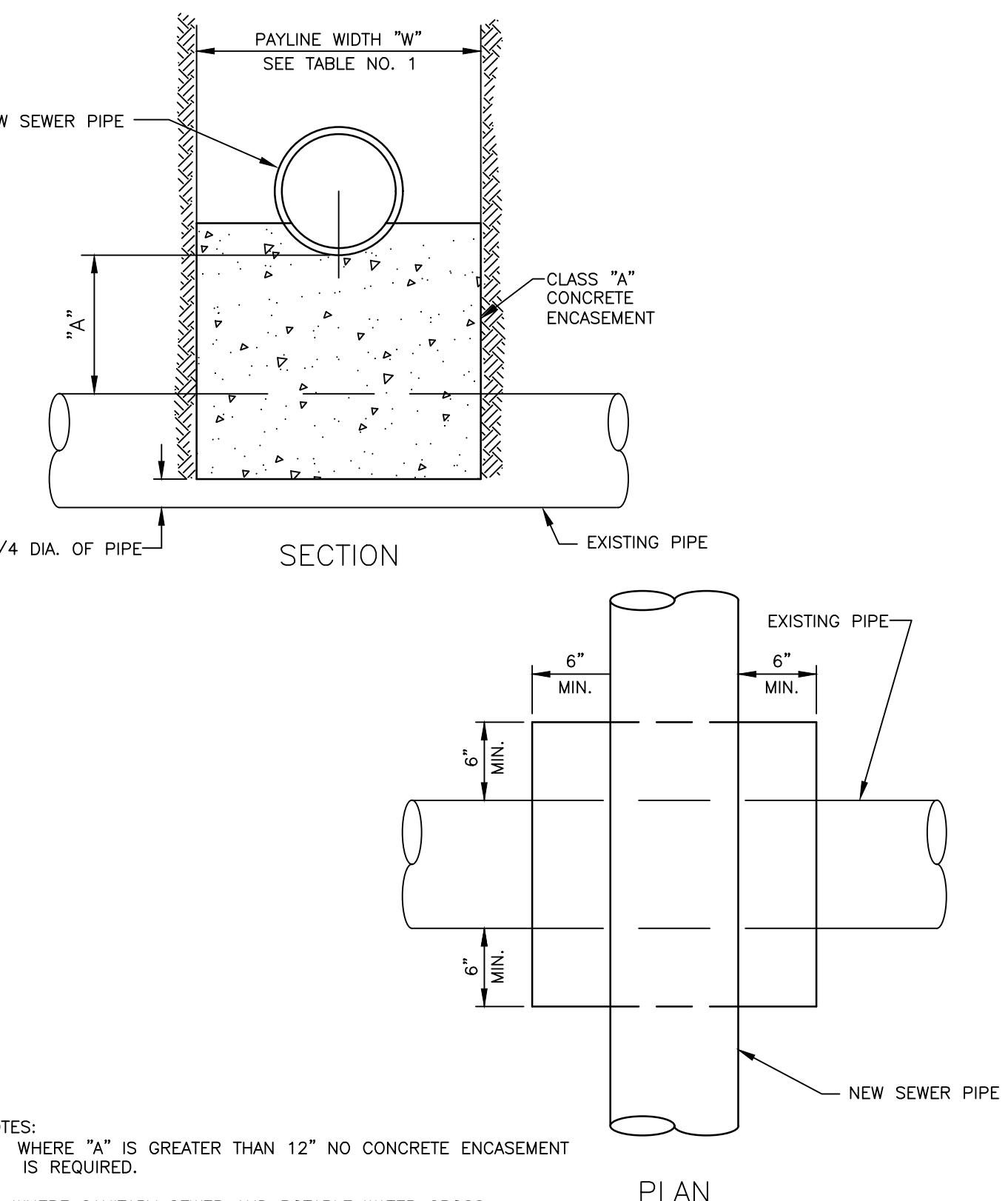
DETAIL OF CONCRETE COLLAR  
N.T.S.

NOTES:  
1. CHECK GRADE OF PIPE AFTER COMPACTION TO INSURE THE DESIRED FLOWLINE HAS NOT CHANGED.  
2. ANY TRENCH BRACING USED BELOW THE TOP OF PIPE SHALL BE LEFT IN PLACE.  
3. FOR INSTALLATIONS IN HIGHLY ORGANIC OR OPENLY FLOWING SOILS, THE ENTIRE PERIMETER OF THE PIPE BEDDING SHALL BE WRAPPED WITH AN APPROVED FILTER FABRIC OR THE "MINIMUM TRENCH WIDTH" SHALL BE EXPANDED BY INCREASING THE DISTANCE BETWEEN THE SIDE OF THE PIPE AND THE LINE OF ACTUAL EXCAVATION OR TRENCH BRACING TO A MINIMUM OF ONE PIPE DIAMETER.

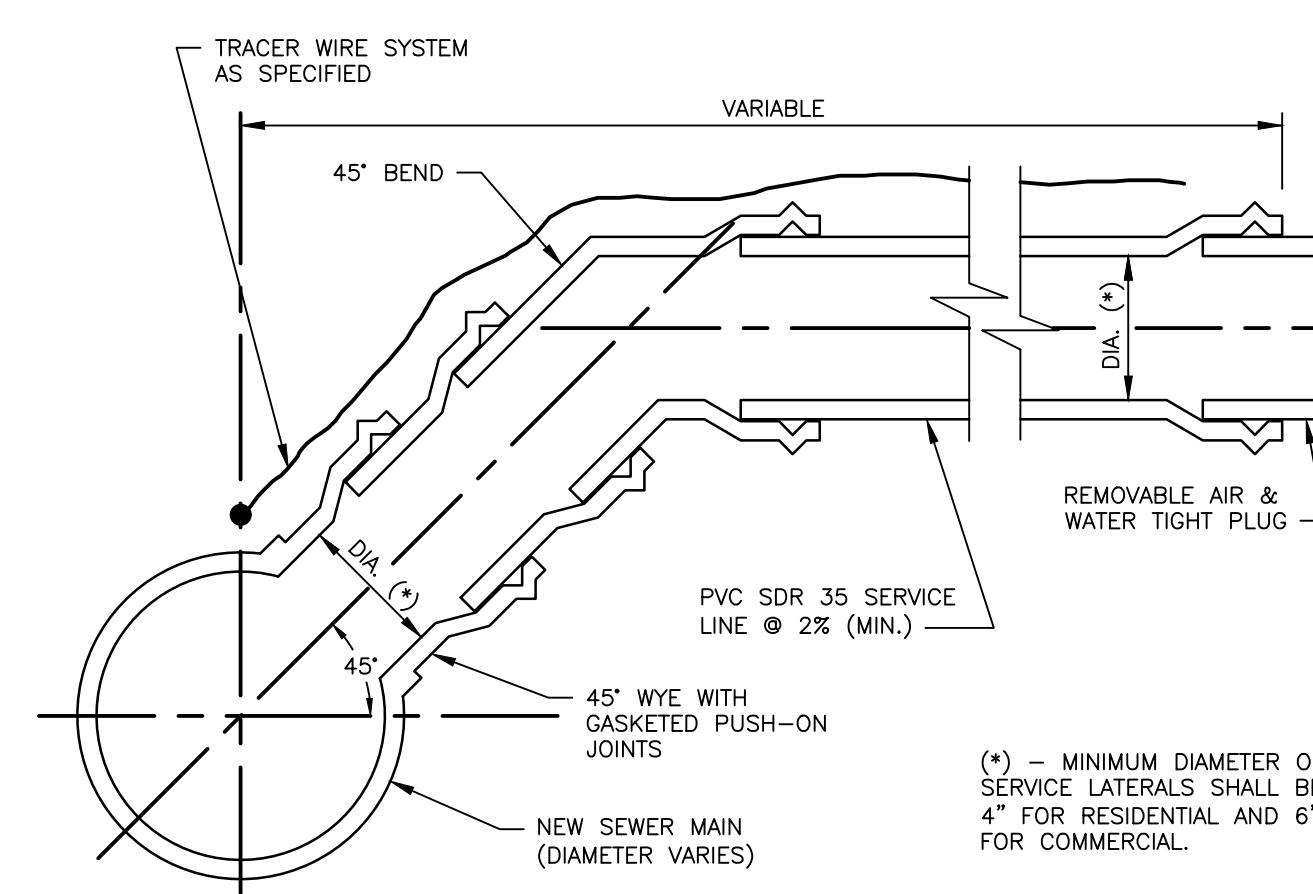
PIPE BEDDING FOR FLEXIBLE PIPE  
(18" TO 48" DIAMETER) S-17



PIPE ENCASEMENT FOR NEW SAN.  
PIPE UNDER EX. PIPE S-21

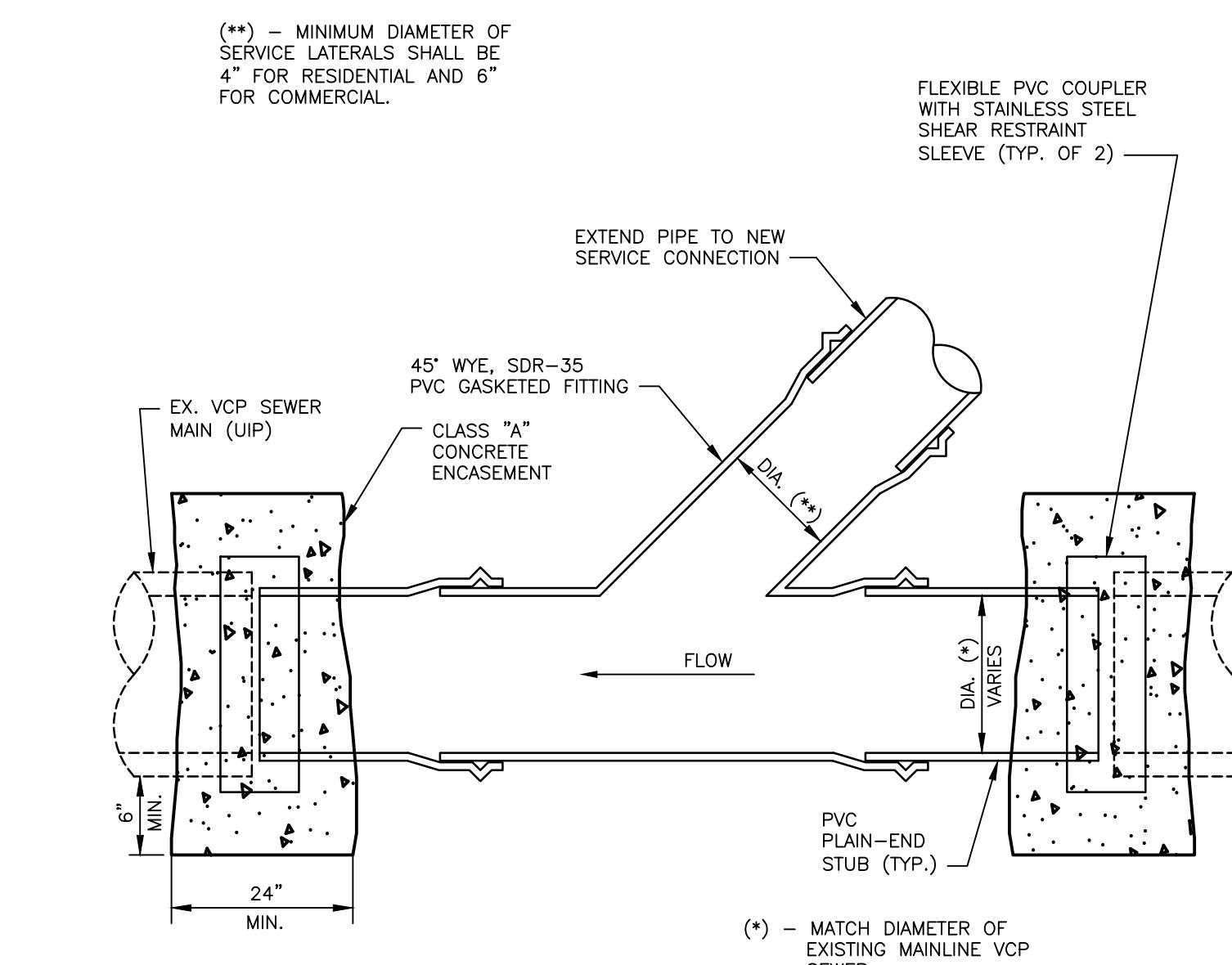


PIPE ENCASEMENT FOR NEW SAN.  
PIPE OVER EX. PIPE S-22

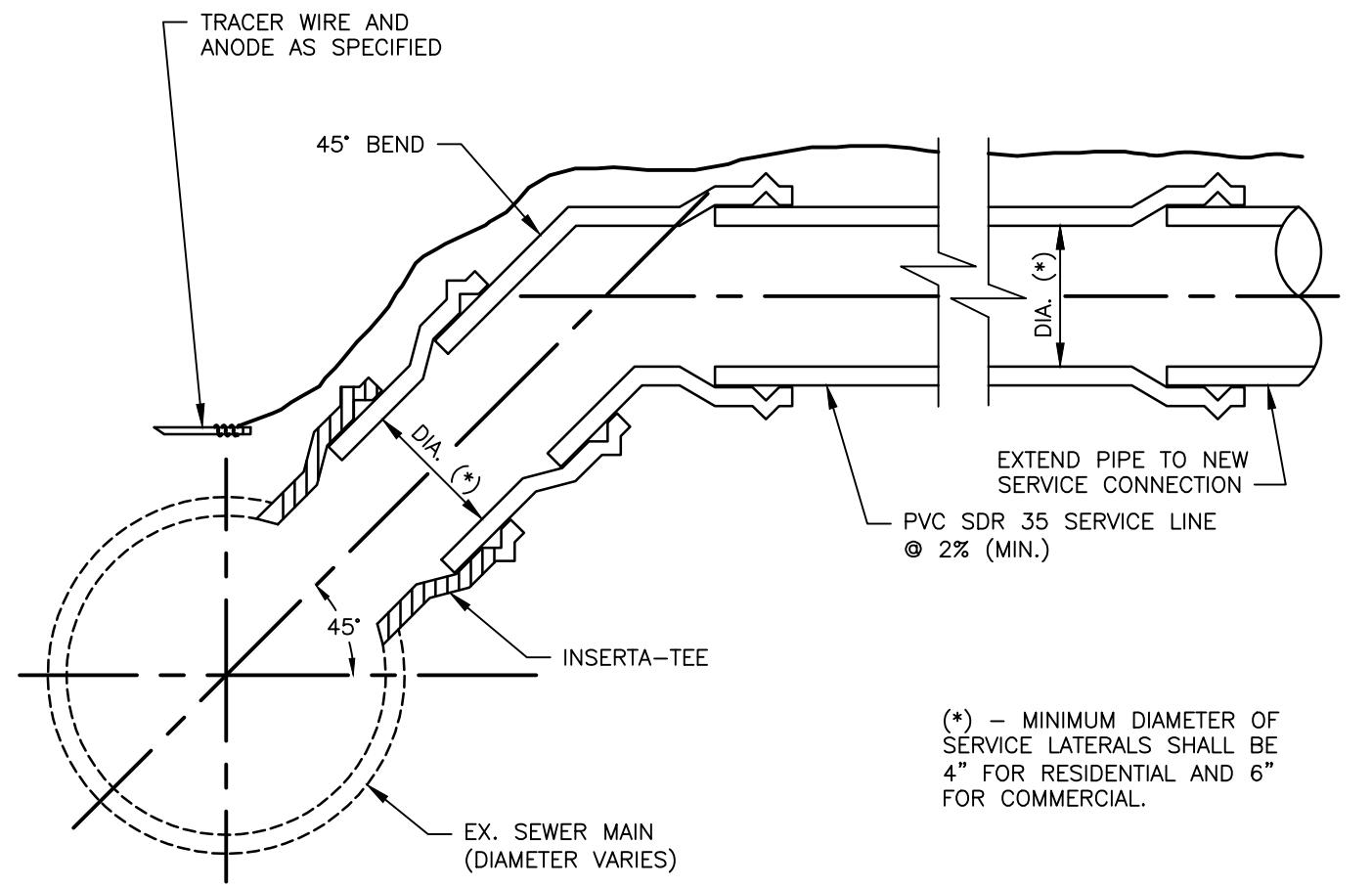


1. SDR-35 PVC WITH GASKETED PUSH-ON JOINT.
2. SEWER MAIN SHALL BE MIN 6" PVC SDR-35 UNLESS APPROVED BY DIRECTOR.
3. A CLEAN, DRY BEDDING MATERIAL IS REQUIRED AROUND THE COMPLETED CONNECTION BEFORE BACK FILLING. THE BEDDING MATERIAL FOR THE TYPE C TRENCH IS DEEMED SATISFACTORY.
4. LATERAL TAPS TO NEW CONSTRUCTION SHALL EXTEND 10 FEET BEYOND RIGHT OF WAY OR EASEMENT ON LOT TO BE SERVICED.
5. SERVICE WYE AND SERVICE LINE TO BE THE SAME MATERIAL AS MAIN UNLESS APPROVED BY DIRECTOR.
6. END OF SERVICE LINE SHALL HAVE A REMOVABLE AIR/WATER TIGHT PLUG.

NEW SEWER MAIN WITH LATERAL S-23



LATERAL CONNECTION TO  
EXISTING VCP SEWER MAIN S-24

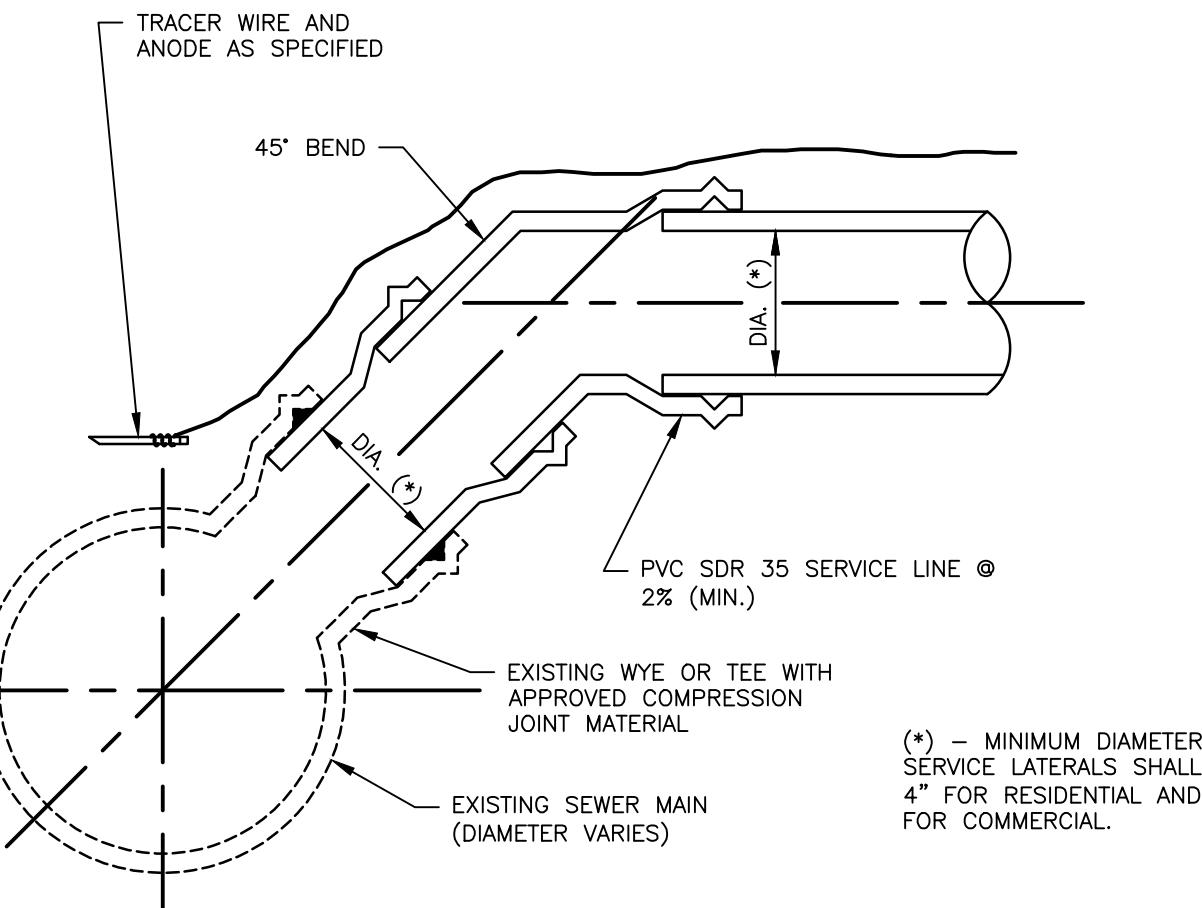


NOTES:

1. A NEW LATERAL CONNECTION TO EXISTING PVC SEWER MAIN, OR OTHER DIRECTOR APPROVED PIPE MATERIAL, SHALL BE MADE WITH AN "INSERTA-TEE" FITTING. INSTALLATION OF THE INSERTA-TEE SHALL BE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
2. INSERTA-TEES SHALL NOT BE INSTALLED ON EXISTING VITRIFIED CLAY PIPE (VCP), UNLESS VCP HAS BEEN PREVIOUSLY LINED WITH CURED-IN-PLACE PIPE (CIPP) AND INSTALLATION IS APPROVED BY THE DIRECTOR.
3. NEW LATERAL PIPE AND FITTINGS SHALL BE PVC, SDR-35 WITH GASKETED JOINTS, UNLESS OTHERWISE APPROVED BY THE DIRECTOR. AN EXISTING 4" LATERAL PIPE MAY BE CONNECTED TO NEW 6" PVC PIPE USING A 4" X 6" PVC REDUCER. CONNECTION BETWEEN THE EXISTING PIPE AND NEW PIPE SHALL BE MADE WITH A DIRECTOR APPROVED FLEXIBLE PVC COUPLER WITH STAINLESS STEEL SHEAR RESTRAINT SLEEVE ENCASED IN CONCRETE.
4. A CLEAR DRY BEDDING IS REQUIRED AROUND THE COMPLETED CONNECTION BEFORE BACKFILLING. THE BEDDING MATERIAL FOR CONNECTION AND LATERAL PIPE SHALL BE TYPE 1 INSTALLED PER THE TYPE C TRENCH DETAIL.

LATERAL CONNECTION TO EXISTING SEWER MAIN

S-25

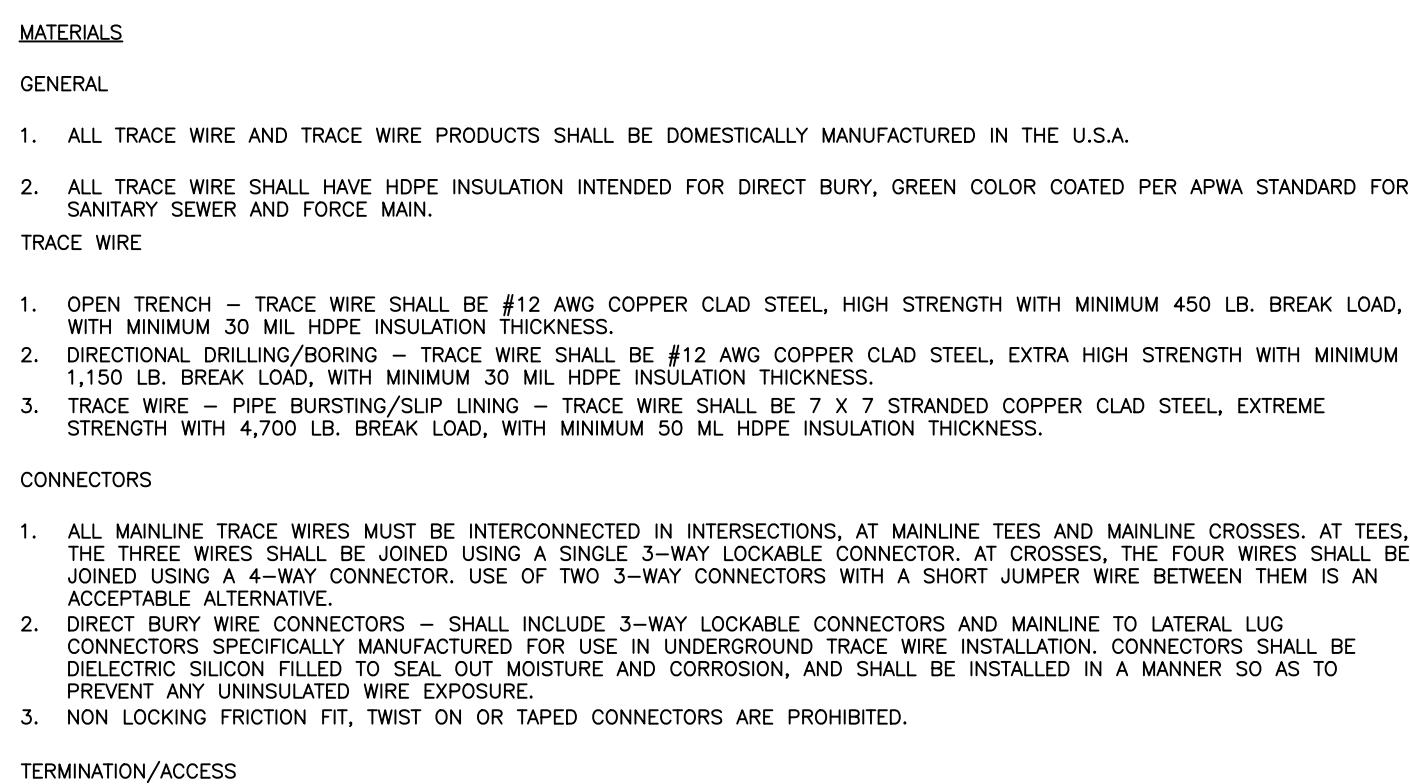


NOTES:

1. WHEN APPROVED BY THE DIRECTOR, EXISTING WYE OR TEE MAY BE UTILIZED TO CONNECT A NEW SERVICE LATERAL TO THE EXISTING SEWER MAIN.
2. CONNECTION TO EXISTING WYE OR TEE SHALL BE MADE WITH DIRECTOR APPROVED COMPRESSION JOINT MATERIAL THAT MATCHES THE SIZE AND MATERIAL OF THE EXISTING WYE OR TEE.
3. NEW LATERAL PIPE AND FITTINGS SHALL BE PVC, SDR-35 WITH GASKETED JOINTS, UNLESS OTHERWISE APPROVED BY THE DIRECTOR. AN EXISTING 4" LATERAL PIPE MAY BE CONNECTED TO THE NEW 6" PVC PIPE USING A 4" X 6" PVC REDUCER. CONNECTION BETWEEN THE EXISTING PIPE AND NEW PIPE SHALL BE MADE WITH A DIRECTOR APPROVED FLEXIBLE PVC COUPLER WITH STAINLESS STEEL SHEAR RESTRAINT SLEEVE ENCASED IN CONCRETE.
4. A CLEAR DRY BEDDING IS REQUIRED AROUND THE COMPLETED CONNECTION BEFORE BACKFILLING. THE BEDDING MATERIAL FOR CONNECTION AND LATERAL PIPE SHALL BE TYPE 1 INSTALLED PER THE TYPE C TRENCH DETAIL.

LATERAL CONNECTION TO EXISTING WYE OR TEE

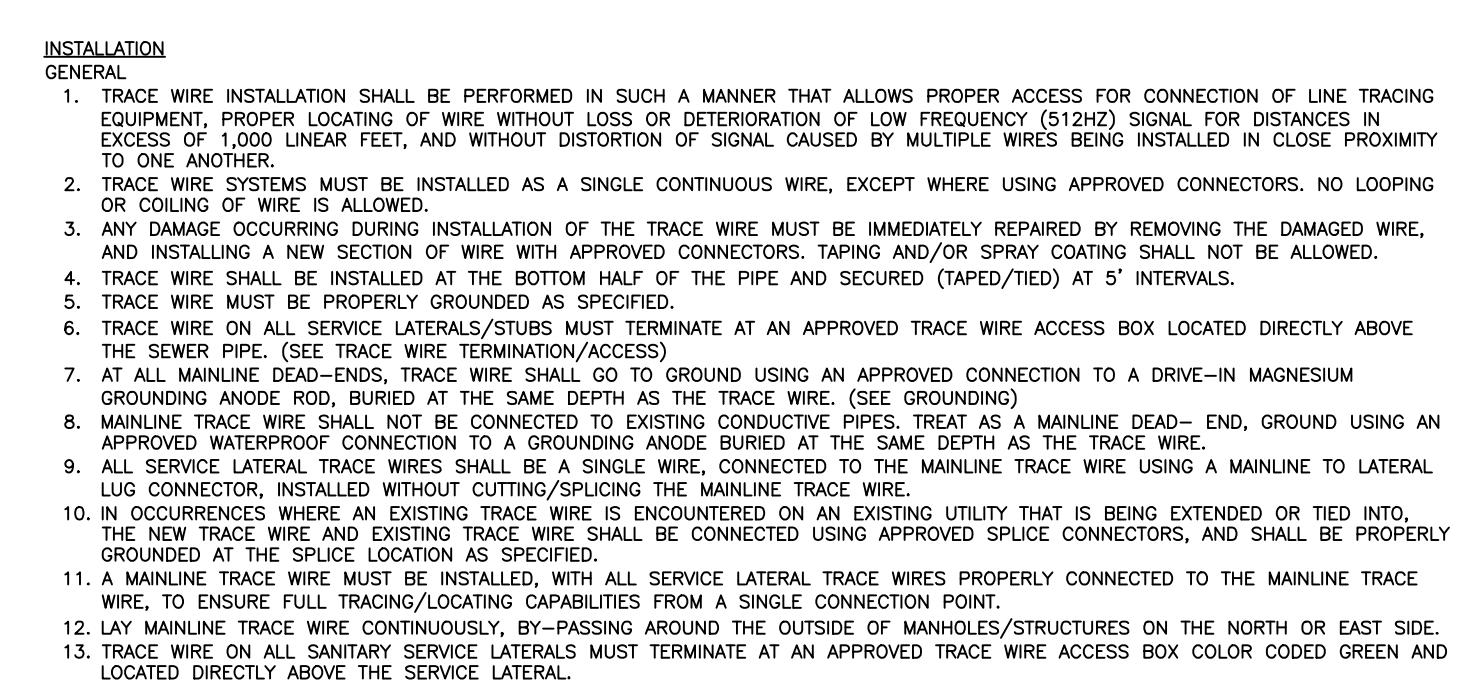
S-26



MATERIALS

GENERAL

1. ALL TRACE WIRE AND TRACE WIRE PRODUCTS SHALL BE DOMESTICALLY MANUFACTURED IN THE U.S.A.
2. ALL TRACE WIRE SHALL HAVE HOPE INSULATION INTENDED FOR DIRECT BURY, GREEN COLOR COATED PER APWA STANDARD FOR SANITARY SEWER AND FORCE MAIN.
3. TRACE WIRE SYSTEMS MUST BE INSTALLED AS A SINGLE CONTINUOUS WIRE, EXCEPT WHERE USING APPROVED CONNECTORS, NO LOOPING OR COILING OF WIRE IS ALLOWED.
4. IN THE EVENT OF DAMAGE TO THE INSTALLATION OF THE TRACE WIRE MUST BE IMMEDIATELY REPAIRED BY REMOVING THE DAMAGED WIRE, AND INSTALLING A NEW SECTION OF WIRE WITH APPROVED CONNECTORS, TAPING AND/OR SPRAY COATING SHALL NOT BE ALLOWED.
5. TRACE WIRE SHALL BE INSTALLED AT THE BOTTOM HALF OF THE PIPE AND SECURED (TAPE/TIED) AT 5' INTERVALS.
6. TRACE WIRE ON ALL SERVICE LATERALS/STUBS MUST TERMINATE AT AN APPROVED TRACE WIRE ACCESS BOX LOCATED DIRECTLY ABOVE THE LATERAL.
7. AT ALL MANLINE DEAD-ENDS, TRACE WIRE SHALL GO TO GROUND USING AN APPROVED CONNECTION TO A DRIVE-IN MAGNESIUM GROUNDING ANODE ROD, BURIED AT THE SAME DEPTH AS THE TRACE WIRE. (SEE GROUNDING)
8. ALL SERVICE LATERAL TRACE WIRE SHALL BE A SINGLE WIRE, CONNECTED TO THE MANLINE TRACE WIRE USING AN APPROVED CONNECTOR, INSTALLED OUTSIDE THE GROUNDING ANODE ROD.
9. ALL SERVICE LATERAL TRACE WIRES SHALL BE A SINGLE WIRE, CONNECTED TO THE MANLINE TRACE WIRE USING A MANLINE TO LATERAL LUG CONNECTOR, INSTALLED WITHOUT CUTTING/SPlicing THE MANLINE TRACE WIRE.
10. IN CONNECTIONS WHERE THE EXISTING TRACE WIRE IS ENCODED ON AN EXISTING UTILITY THAT IS BEING EXTENDED OR TIED INTO, NEW TRACE WIRE AND EXISTING TRACE WIRE SHALL BE CONNECTED WITH APPROVED SPlice CONNECTORS, AND SHALL BE PROPERLY GROUNDED AT THE SPlice LOCATION AS SPECIFIED.
11. A MANLINE TRACE WIRE MUST BE INSTALLED IN ALL SERVICE LATERAL TRACE WIRES PROPERLY CONNECTED TO THE MANLINE TRACE WIRE, AND SHALL BE GROUNDED CAPABILITIES FROM A SINGLE CONNECTION POINT.
12. LAY MANLINE TRACE WIRE CONTINUOUSLY, BY-PASSING AROUND THE OUTSIDE OF MANHOLES/STRUCTURES ON THE NORTH OR EAST SIDE.
13. TRACE WIRE ON ALL SANITARY SERVICE LATERALS MUST TERMINATE AT AN APPROVED TRACE WIRE ACCESS BOX COLOR CODED GREEN AND LOCATED DIRECTLY ABOVE THE SERVICE LATERAL.



INSTALLATION

1. TRACE WIRE INSTALLATION SHALL BE PERFORMED IN SUCH A MANNER THAT ALLOWS PROPER ACCESS FOR CONNECTION OF LINE TRACING EQUIPMENT, PROPER LOCATING OF WIRE WITHOUT LOSS OR DETERIORATION OF LOW FREQUENCY (512HZ) SIGNAL FOR DISTANCE IN EXCESS OF 1,000 LINEAR FEET, AND WITHOUT DISTORTION OR SIGNAL CAUSE BY MULTIPLE WIRES BEING INSTALLED IN CLOSE PROXIMITY TO ONE ANOTHER.
2. TRACE WIRE SYSTEMS MUST BE INSTALLED AS A SINGLE CONTINUOUS WIRE, EXCEPT WHERE USING APPROVED CONNECTORS, NO LOOPING OR COILING OF WIRE IS ALLOWED.
3. IN THE EVENT OF DAMAGE TO THE INSTALLATION OF THE TRACE WIRE MUST BE IMMEDIATELY REPAIRED BY REMOVING THE DAMAGED WIRE, AND INSTALLING A NEW SECTION OF WIRE WITH APPROVED CONNECTORS, TAPING AND/OR SPRAY COATING SHALL NOT BE ALLOWED.
4. TRACE WIRE SHALL BE INSTALLED AT THE BOTTOM HALF OF THE PIPE AND SECURED (TAPE/TIED) AT 5' INTERVALS.
5. TRACE WIRE MUST BE PROPERLY GROUNDED AS SPECIFIED.
6. TRACE WIRE ON ALL SERVICE LATERALS/STUBS MUST TERMINATE AT AN APPROVED TRACE WIRE ACCESS BOX LOCATED DIRECTLY ABOVE THE LATERAL.
7. AT ALL MANLINE DEAD-ENDS, TRACE WIRE SHALL GO TO GROUND USING AN APPROVED CONNECTION TO A DRIVE-IN MAGNESIUM GROUNDING ANODE ROD, BURIED AT THE SAME DEPTH AS THE TRACE WIRE. (SEE GROUNDING)
8. ALL SERVICE LATERAL TRACE WIRE SHALL NOT BE CONNECTED TO EXISTING CONDUCTIVE PIPE, TREAT AS A MANLINE DEAD-END, GROUND USING AN APPROVED CONNECTION TO A DRIVE-IN MAGNESIUM GROUNDING ANODE ROD, BURIED AT THE SAME DEPTH AS THE TRACE WIRE.
9. ALL SERVICE LATERAL TRACE WIRES SHALL BE A SINGLE WIRE, CONNECTED TO THE MANLINE TRACE WIRE USING AN APPROVED CONNECTOR, INSTALLED OUTSIDE THE GROUNDING ANODE ROD.
10. IN CONNECTIONS WHERE THE EXISTING TRACE WIRE IS ENCODED ON AN EXISTING UTILITY THAT IS BEING EXTENDED OR TIED INTO, NEW TRACE WIRE AND EXISTING TRACE WIRE SHALL BE CONNECTED WITH APPROVED SPlice CONNECTORS, AND SHALL BE PROPERLY GROUNDED AT THE SPlice LOCATION AS SPECIFIED.
11. A MANLINE TRACE WIRE MUST BE INSTALLED IN ALL SERVICE LATERAL TRACE WIRES PROPERLY CONNECTED TO THE MANLINE TRACE WIRE, AND SHALL BE GROUNDED CAPABILITIES FROM A SINGLE CONNECTION POINT.
12. LAY MANLINE TRACE WIRE CONTINUOUSLY, BY-PASSING AROUND THE OUTSIDE OF MANHOLES/STRUCTURES ON THE NORTH OR EAST SIDE.
13. TRACE WIRE ON ALL SANITARY SERVICE LATERALS MUST TERMINATE AT AN APPROVED TRACE WIRE ACCESS BOX COLOR CODED GREEN AND LOCATED DIRECTLY ABOVE THE SERVICE LATERAL.

PROHIBITED PRODUCTS AND METHODS

THE FOLLOWING PRODUCTS AND METHODS SHALL NOT BE ALLOWED OR ACCEPTABLE

1. UNINSULATED TRACE WIRE
2. UNINSULATED WIRE OTHER THAN HOPE
3. TRACE WIRES NOT DOMESTICALLY MANUFACTURED
4. NON LOCKING, FRICITION FIT, TWIST ON OR TAPE CONNECTORS
5. BEND OR COMPRESSION RODS
6. WIRE CONNECTORS UTILIZING Taping OR SPRAY-ON WATERPROOFING
7. LOOPED WIRE OR CONTINUOUS WIRE INSTALLATIONS, THAT HAVE MULTIPLE WIRES LAID SIDE-BY-SIDE OR IN CLOSE PROXIMITY TO ONE ANOTHER
8. TRACE WIRE WRAPPED AROUND THE CORRESPONDING UTILITY
9. BEND FITTINGS WITH TRACE WIRE CONNECTION LUGS
10. WIRE TERMINATIONS WITHIN THE ROADWAY, I.E. IN VEHICLE BOXES, CLEAUNOTS, MANHOLES, ETC.
11. CONNECTING TRACE WIRE TO EXISTING CONDUCTIVE WIRE

TERMINATION/ACCESS

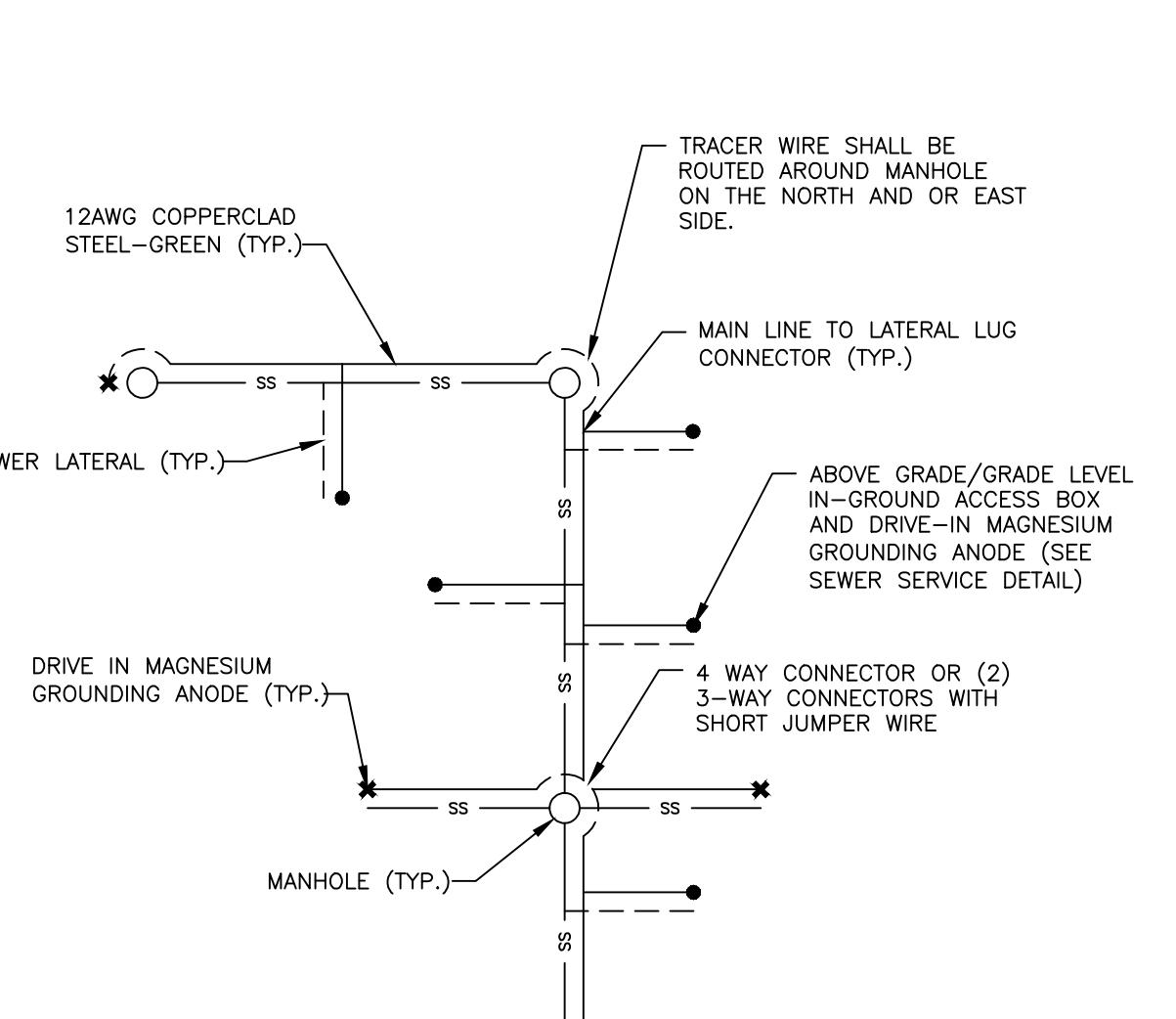
1. ALL TRACE WIRE TERMINATION POINTS MUST UTILIZE AN APPROVED TRACE WIRE ACCESS BOX (ABOVE GROUND ACCESS BOX OR GRADE LEVEL/IN-GROUND ACCESS BOX AS APPLICABLE), SPECIFICALLY MANUFACTURED FOR THIS PURPOSE.
2. ALL GRADE LEVEL/IN-GROUND ACCESS BOXES SHALL BE APPROPRIATELY IDENTIFIED WITH "SEWER" CAST INTO THE CAP AND BE COLOR CODED GREEN.
3. A MINIMUM OF 2 FT OF EXCESS/SLACK WIRE IS REQUIRED IN ALL TRACE WIRE ACCESS BOXES AFTER MEETING FINAL ELEVATION.
4. ALL TRACE WIRE ACCESS BOXES MUST INCLUDE A MANUALLY INTERRUPTABLE CONDUCTIVE/CONNECTIVE LINK BETWEEN THE TERMINAL(S) FOR THE TRACE WIRE CONNECTION AND THE TERMINAL FOR THE GROUNDING ANODE WIRE CONNECTION.
5. GROUNDING ANODE WIRE SHALL BE CONNECTED TO THE IDENTIFIED (OR BOTTOM) TERMINAL ON ALL ACCESS BOXES.
6. SERVICE LATERAL - TRACE WIRE MUST TERMINATE AT AN APPROVED ABOVE-GROUND TRACE WIRE ACCESS BOX, AFFIXED TO THE BUILDING EXTERIOR, ABOVE GRADE, ABOVE WHERE THE LATERAL ENTERS THE BUILDING, AND IN ELEVATION NOT GREATER THAN 3 VERTICAL FEET ABOVE FINISHED GRADE. TERMINATE AT AN APPROVED GRADE LEVEL/IN-GROUND TRACE WIRE ACCESS BOX, LOCATED WITHIN 2 LINEAR FEET OF THE BUILDING BEING SERVED BY THE DISTRICT.
7. LONG-RUNS IN EXCESS OF 500 LINEAR FEET WITHOUT SERVICE LATERALS - TRACE WIRE ACCESS MUST BE PROVIDED UTILIZING AN APPROVED GRADE LEVEL/IN-GROUND TRACE WIRE ACCESS BOX, LOCATED AT THE EDGE OF THE ROAD RIGHT-OF-WAY, AND OUT OF THE ROADWAY. THE GRADE LEVEL/IN-GROUND TRACE WIRE ACCESS BOX SHALL BE DELINEATED USING A MINIMUM 45° POLYETHYLENE MARKER POST, COLOR CODED GREEN PER APWA STANDARD.

GROUNDED

1. TRACE WIRE MUST BE PROPERLY GROUNDED AT ALL DEAD ENDS/STUBS.
2. GROUNDED OF TRACE WIRE SHALL BE ACHIEVED BY USE OF A DRIVE-IN MAGNESIUM GROUNDING ANODE ROD WITH A MINIMUM OF 20FT OF #14 RED HOPE INSULATED COPPER CLAD STEEL WIRE CONNECTED TO ANODE (MINIMUM 1.5 LB.) SPECIFICALLY MANUFACTURED FOR THIS PURPOSE, AND BURIED AT THE SAME ELEVATION AS THE SEWER PIPE OR FORCE MAIN.
3. WHEN GROUNDED THE TRACE WIRE AT DEAD ENDS/STUBS, THE GROUNDING ANODE SHALL BE INSTALLED IN A DIRECTION 180 DEGREES FROM THE GROUNDED END OF THE TRACE WIRE.
4. WHEN GROUNDED THE TRACE WIRE IN AREAS WHERE THE TRACE WIRE IS CONTINUOUS AND NEITHER THE MANLINE TRACE WIRE OR THE GROUNDING ANODE WIRE WILL BE TERMINATED AT ABOVE GRADE, INSTALL GROUNDING ANODE DIRECTLY BEHIND AND IN-LINE WITH THE TRACE WIRE. DO NOT COIL EXCESS WIRE FROM GROUNDING ANODE. IN THIS INSTALLATION METHOD, THE GROUNDING ANODE WIRE SHALL BE CONNECTED TO AN APPROPRIATE LENGTH BEFORE CONNECTING TO TRACE WIRE WITH A MANLINE TO LATERAL LUG CONNECTOR.
5. WHERE THE ANODE WIRE WILL BE CONNECTED TO A TRACE WIRE ACCESS BOX, A MINIMUM OF 2 FT OF EXCESS/SLACK WIRE IS REQUIRED AFTER MEETING FINAL ELEVATION.

TRACER WIRE SPECIFICATIONS (1) S-27

TRACER WIRE SPECIFICATIONS (2) S-28

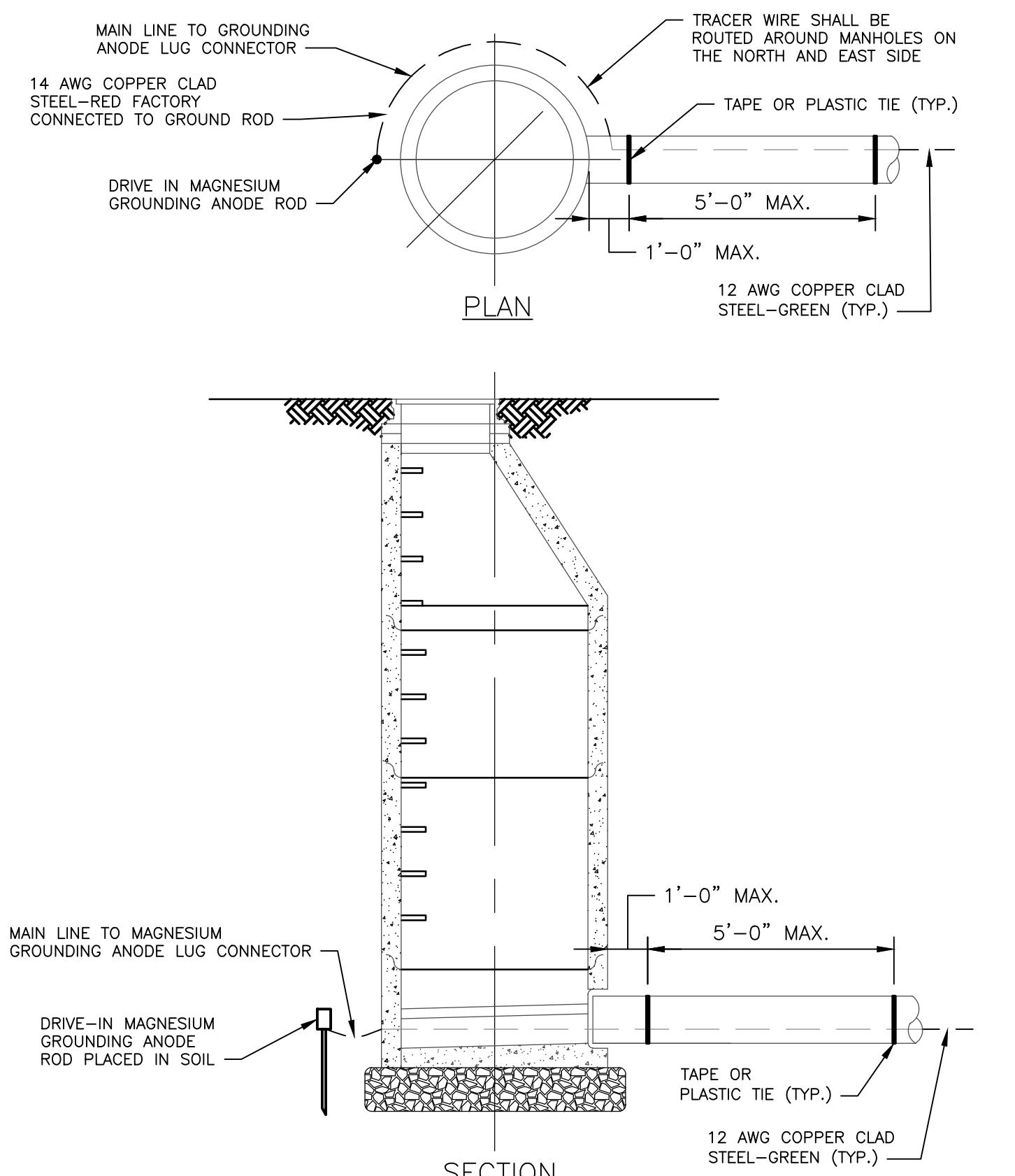


NOTES:

1. WIRE SHOWN AWAY FROM PIPE FOR CLARITY. WIRE SHALL BE INSTALLED ON THE BOTTOM SIDE OF THE PIPE BELOW THE SPRING LINE. THE WIRES SHALL BE FASTENED TO THE PIPE WITH TAPE OR PLASTIC TIES AT 5' INTERVALS.

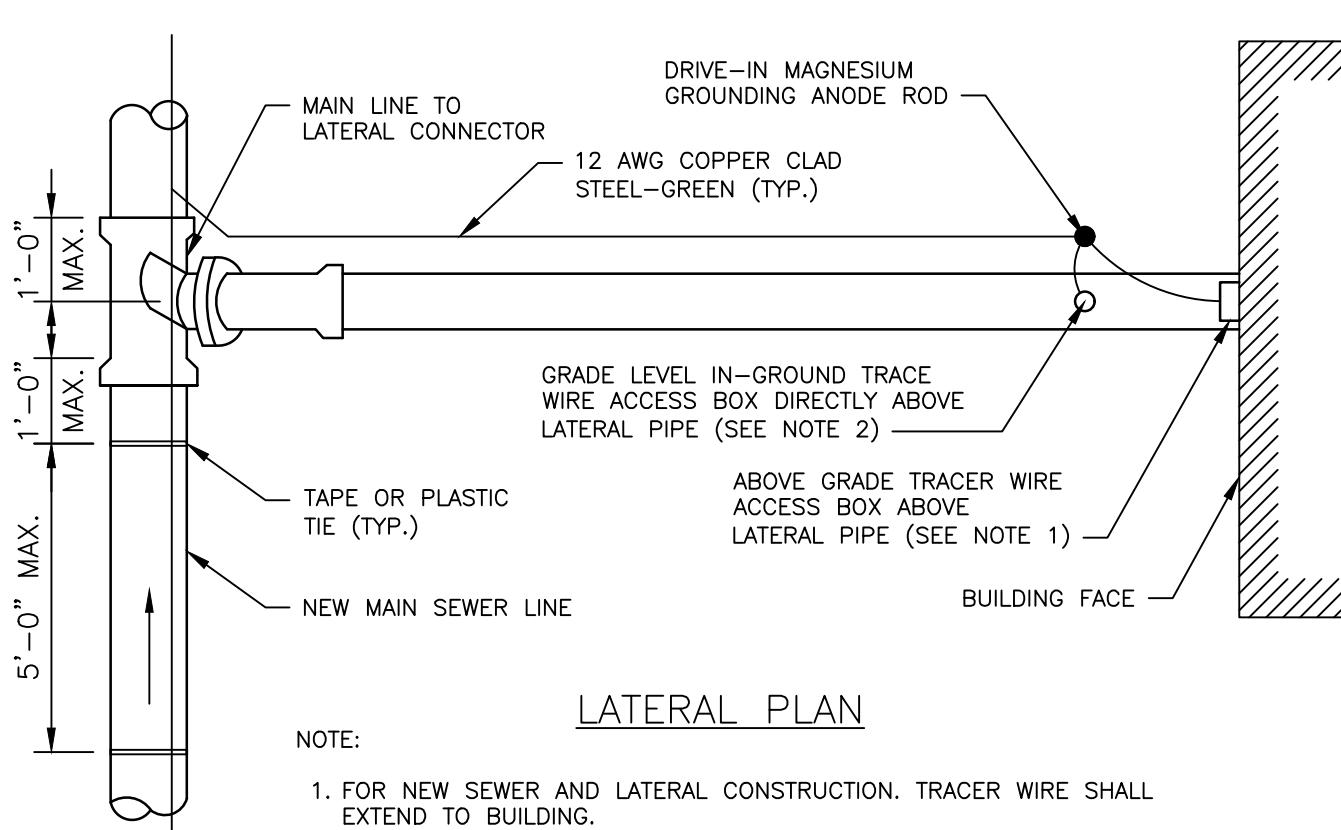
TRACER WIRE PLAN  
(NEW MAIN SEWER SYSTEM)

S-29



TRACER WIRE AT MANHOLE  
(NEW MAIN SEWER SYSTEM)

S-30



LATERAL PLAN

1. FOR NEW SEWER AND LATERAL CONSTRUCTION, TRACER WIRE SHALL EXTEND TO BUILDING.
2. FOR PROJECTS INVOLVING PARTIAL REPLACEMENT OF LATERAL, TRACER WIRE SHALL EXTEND TO LIMITS OF REPLACEMENT AND TERMINATE WIRE AT AN IN-GROUND ACCESS BOX. A NEW CLEANOUT SHALL BE INSTALLED ON LATERAL AT THIS LOCATION.

TRACER WIRE AT LATERAL  
(NEW MAIN SEWER SYSTEM)

S-31

LATERAL PLAN

1. FOR NEW LATERAL CONSTRUCTION, TRACER WIRE SHALL EXTEND TO BUILDING.
2. FOR PROJECTS INVOLVING PARTIAL REPLACEMENT OF LATERAL, TRACER WIRE SHALL EXTEND TO LIMITS OF REPLACEMENT AND TERMINATE WIRE AT AN IN-GROUND ACCESS BOX. A NEW CLEANOUT SHALL BE INSTALLED ON LATERAL AT THIS LOCATION.

TRACER WIRE AT LATERAL  
(EX. MAIN SEWER LINE)

S-32

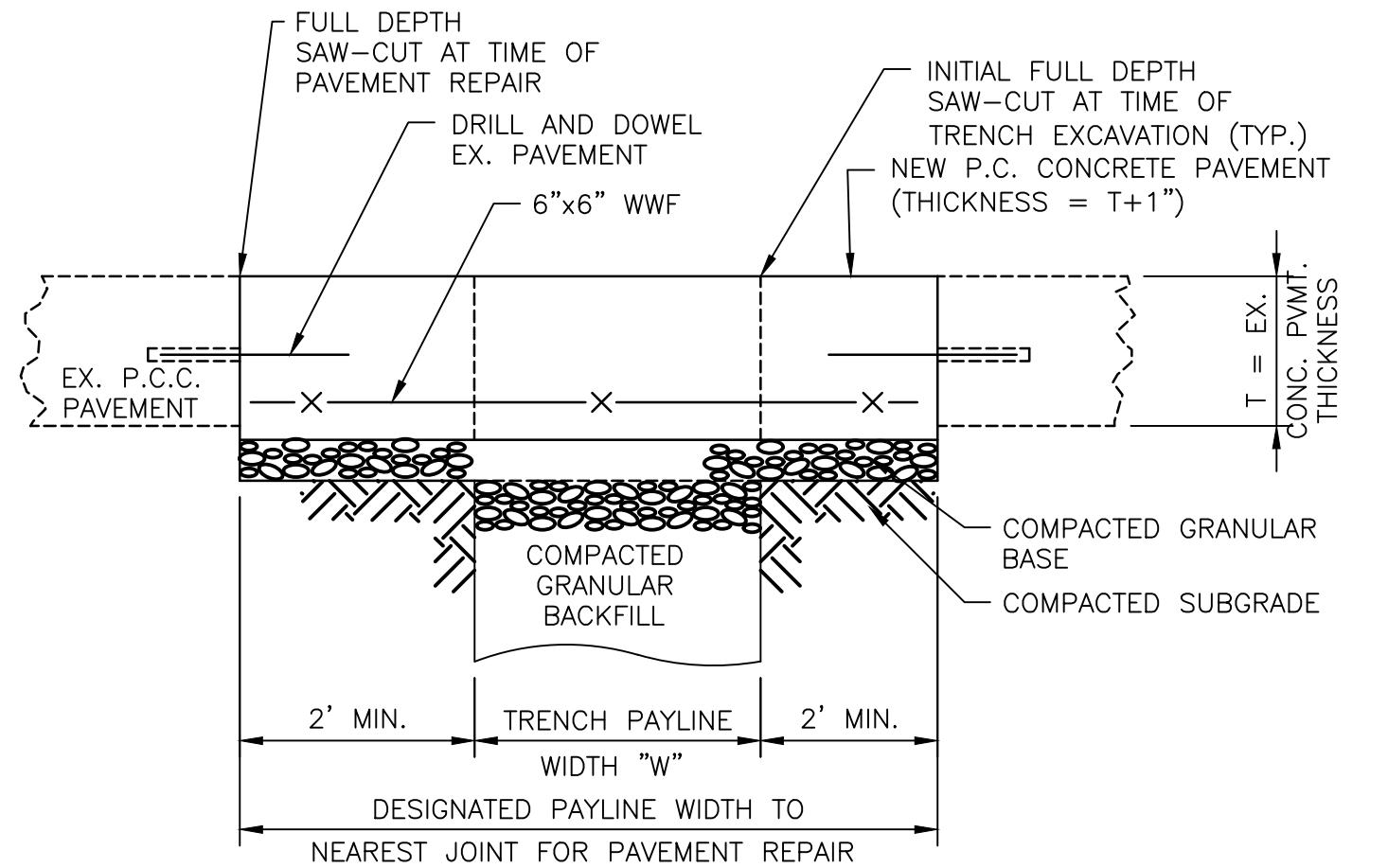
NO. DATE REVISIONS BY  
CHECKED BY: KAP  
SCALE: N.T.S.

DATE: 4/8/2021  
VERT. N.T.S.

CITY OF JACKSON  
101 COURT STREET, JACKSON, MISSOURI  
WASTEWATER DIVISION

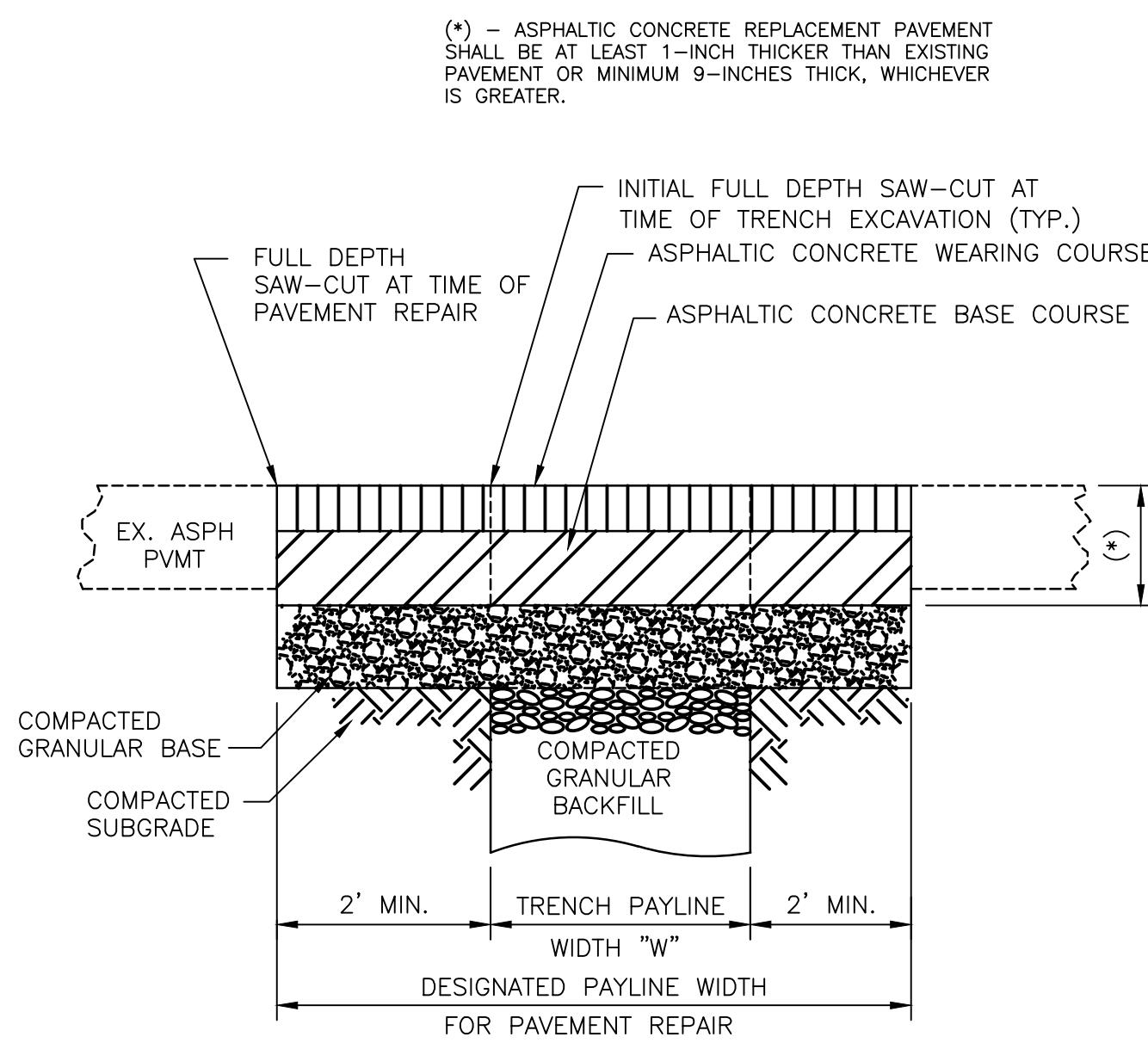
CITY OF JACKSON  
SANITARY STANDARDS

SHEET  
NUMBER: 4



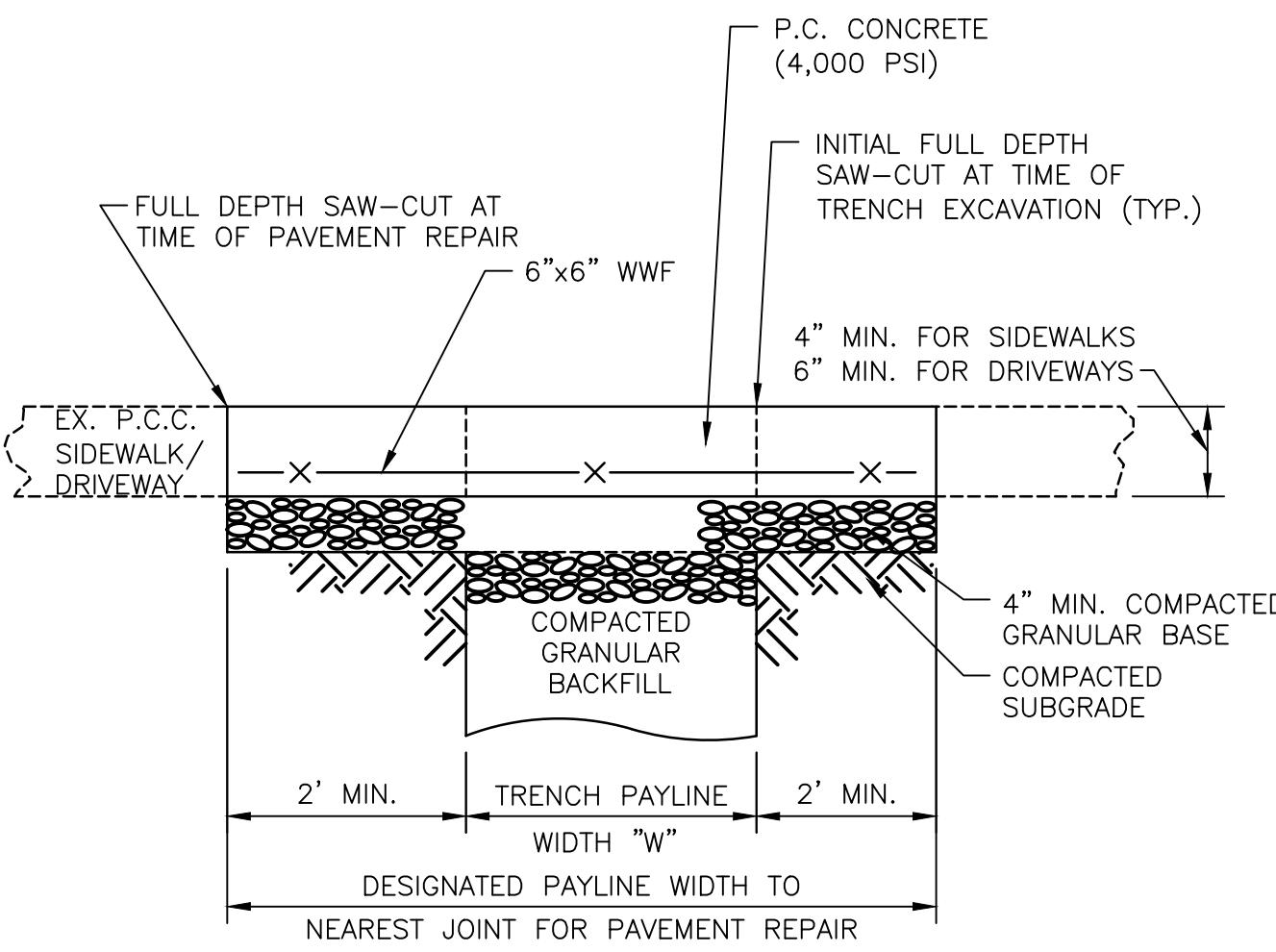
PAYLINE LIMITS FOR CONCRETE  
STREET PAVEMENT REPAIR

S-33



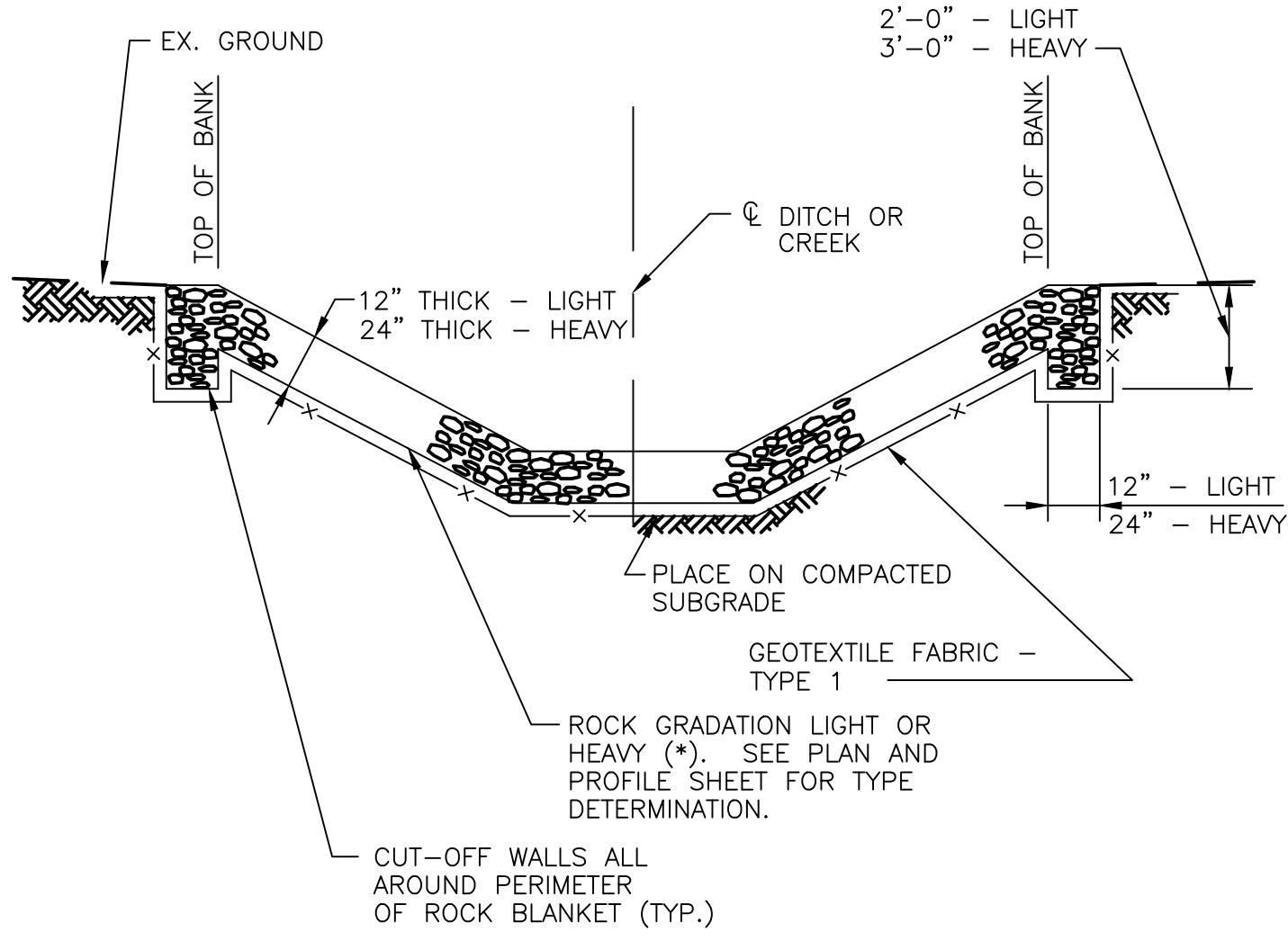
PAYLINE LIMITS FOR ASPHALT  
CONCRETE STREET PAVEMENT  
REPAIR

S-34



PAYLINE LIMITS FOR CONCRETE  
SIDEWALK / DRIVEWAY REPAIR

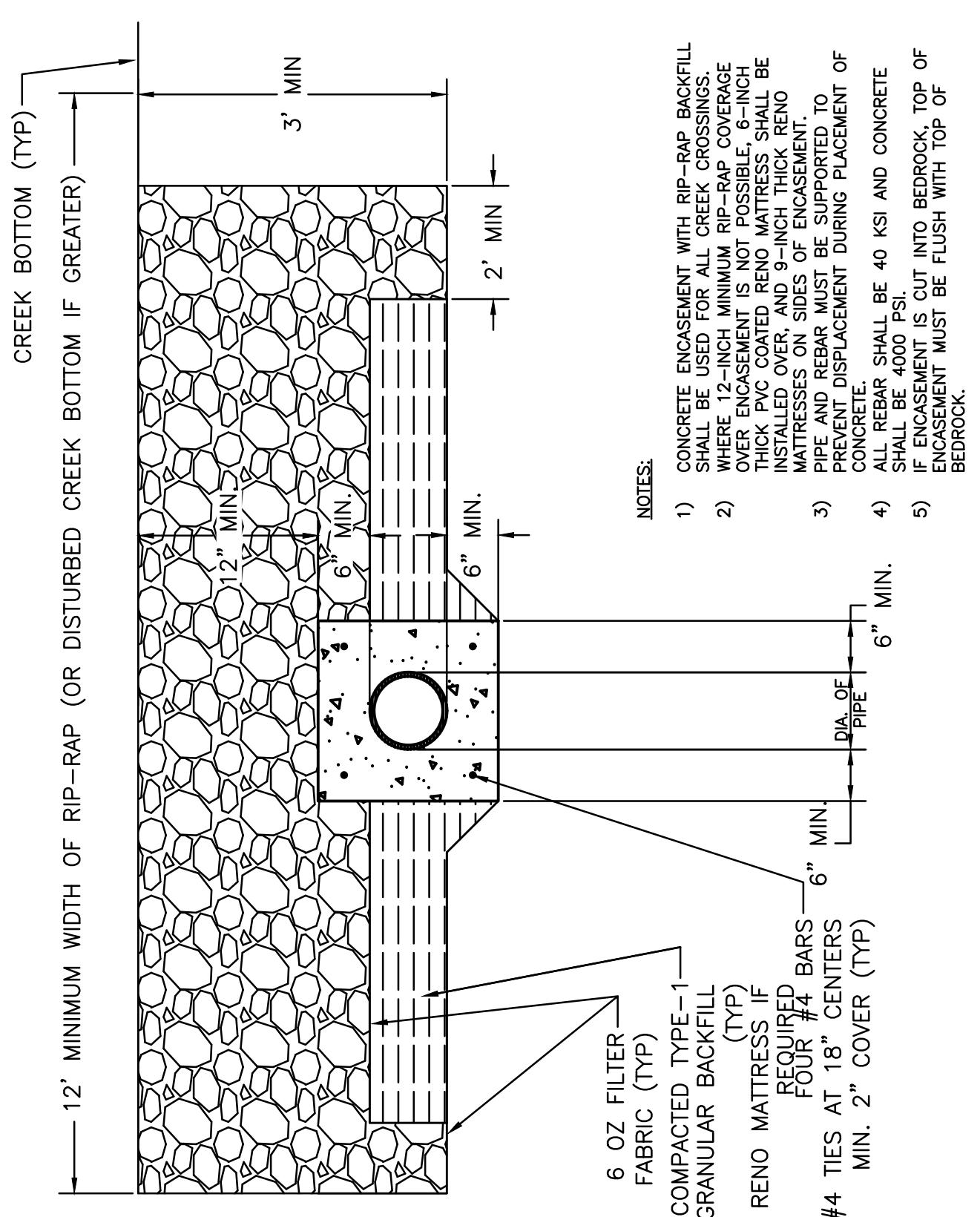
S-35



(\*) SEE SPECIFICATIONS FOR LIGHT AND  
HEAVY GRADATIONS.

NOTE:  
DO NOT PLACE ROCK BLANKET IN FLOWLINE  
OF LIMESTONE CREEK BOTTOMS.

TYPICAL ROCK BLANKET DETAIL S-36



CREEK CROSSING

S-37

NO.	DATE	REVISIONS	BY

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

DATE: 4/8/2021  
VERT. N.T.S.