

PROJECT
231057

REGA ENGINEERING
601 OLD CHENEY RD., SUITE A
LINCOLN, NEBRASKA 68512
(402) 484-7342

- ENGINEERING
- PLANNING
- LANDSCAPE ARCHITECTURE
- LAND SURVEYING
- IRRIGATION

ISSUED FOR	DATE
90% REVIEW	06/30/23

CRETE SENIOR VILLAS
E 29th ST & BETTEN DRIVE
CRETE, NE 68333

BENCHMARK
BENCHMARK #1: SANITARY SEWER MANHOLE FOUND NORTHWEST OF SITE, EAST SIDE OF BETTEN DRIVE RIM ELEVATION = 1449.61

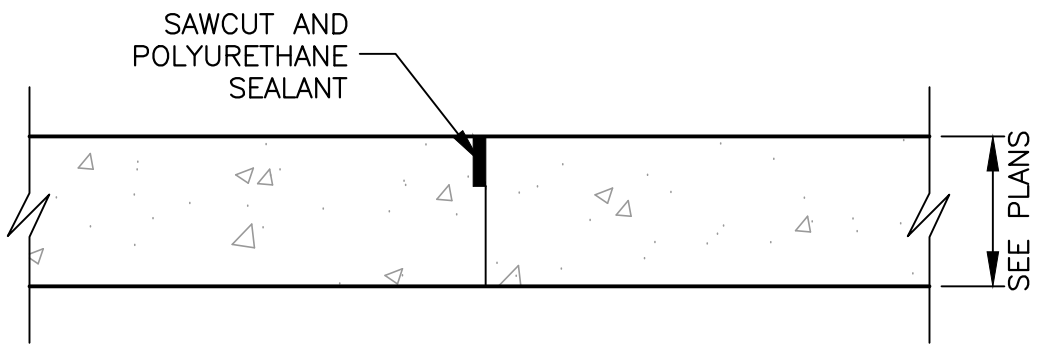
Nebraska 811
Know what's below.
Call before you dig.

UTILITY PLAN

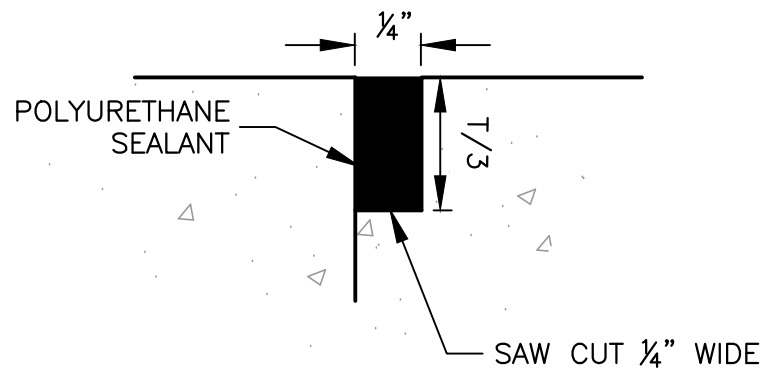
C1.4

PRELIMINARY
FOR REVIEW
NOT FOR CONSTRUCTION

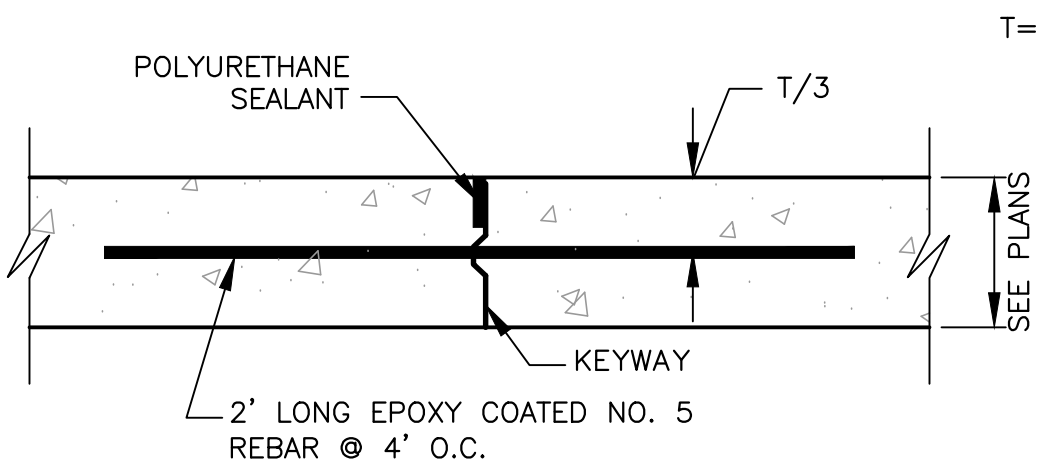
SHEET NO.



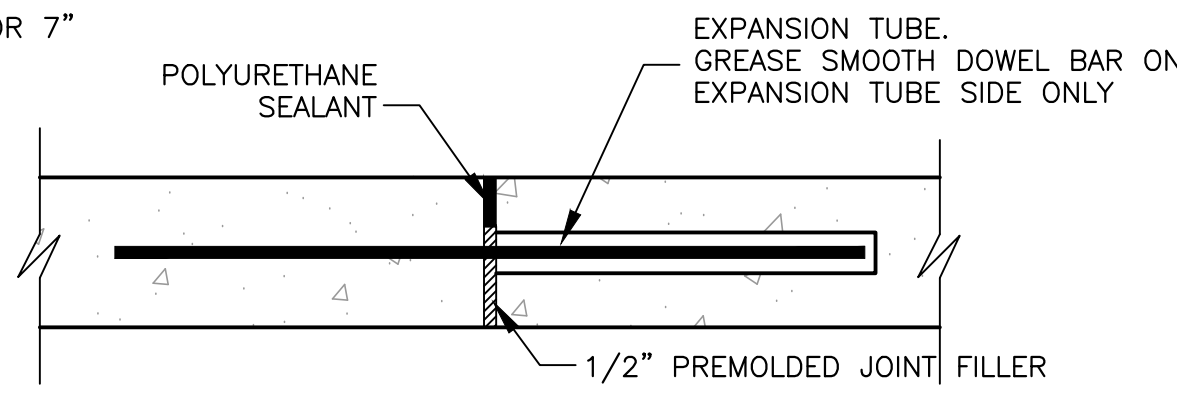
LONGITUDINAL/TRANSVERSE JOINT



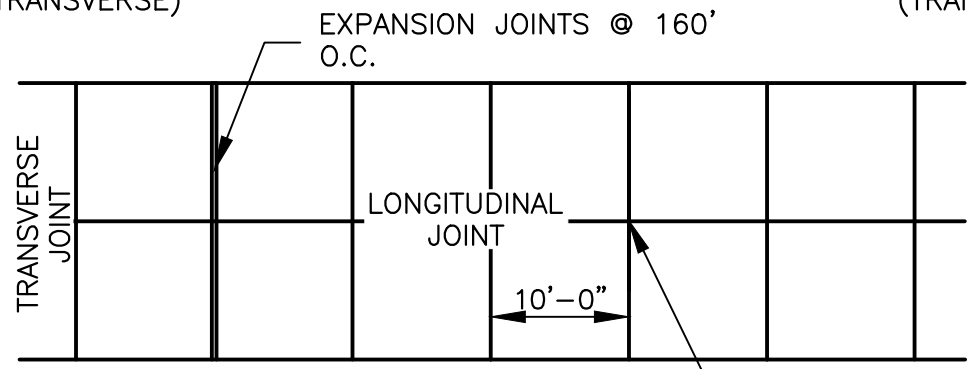
SAW CUT AND JOINT SEALANT



CONSTRUCTION JOINT
(LONGITUDINAL AND TRANSVERSE)



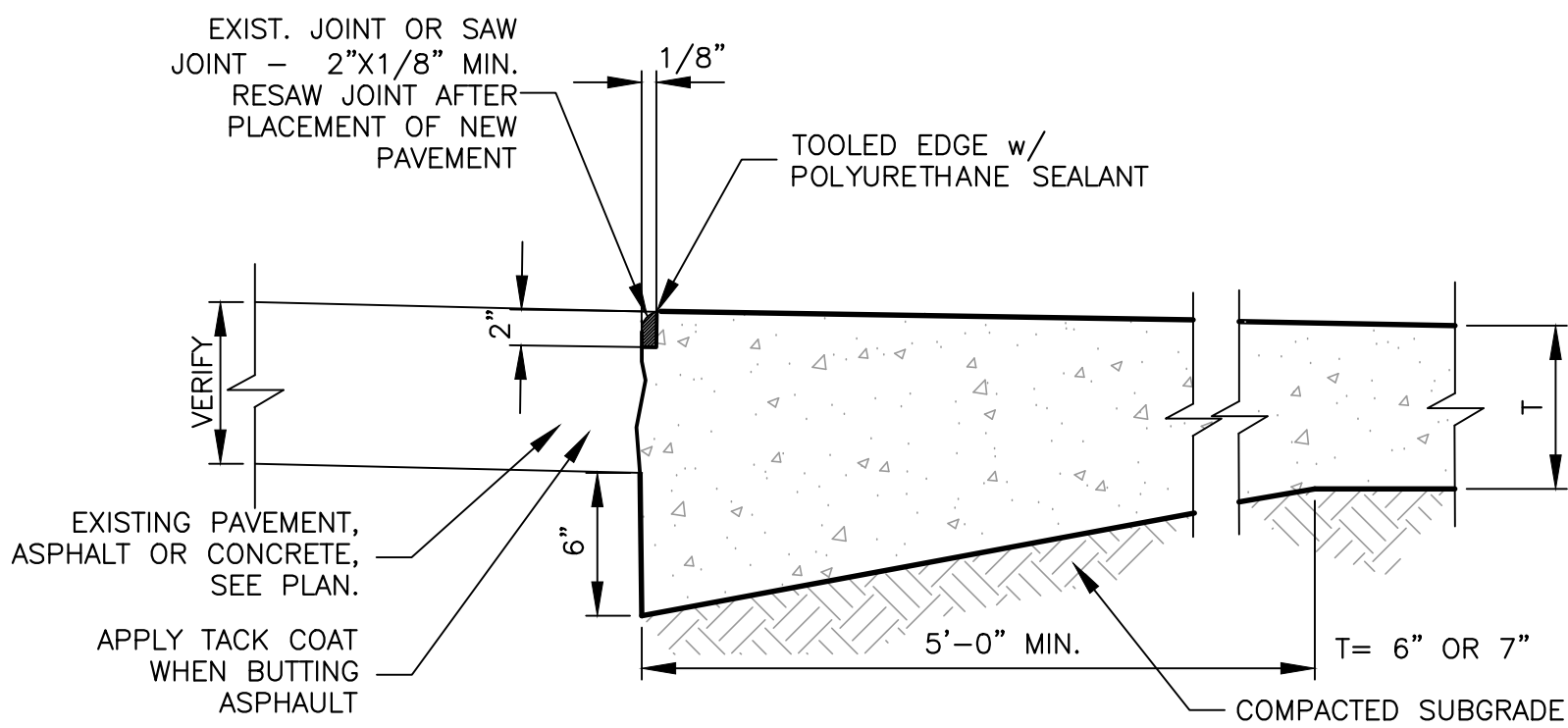
EXPANSION JOINT
(TRANSVERSE JOINT)



CONCRETE PAVING

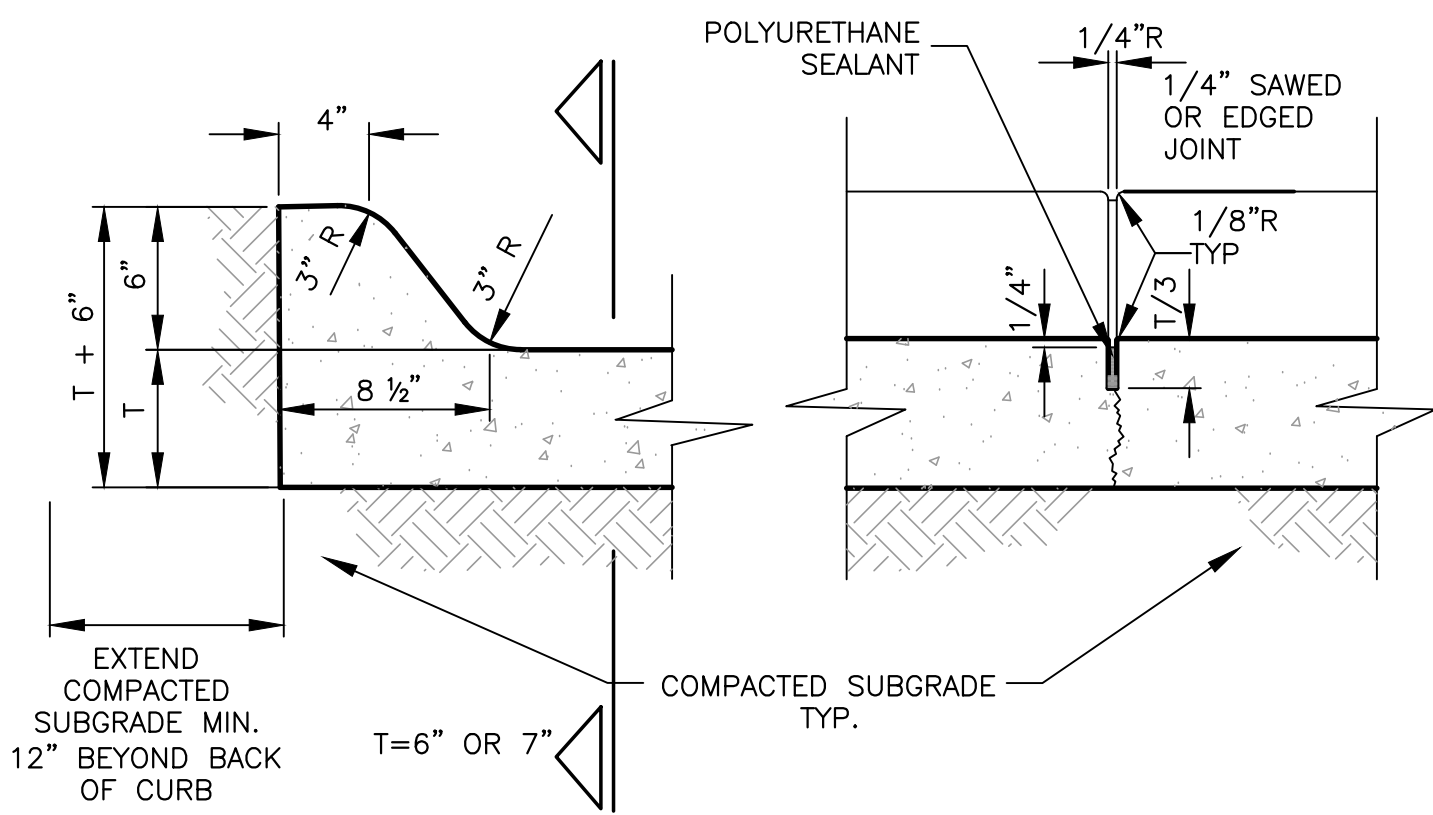
- NOTES:
1. PROVIDE EXPANSION JOINT IN CONCRETE PAVEMENT AND CURB AND GUTTER AT THE SAME LOCATION.
 2. CONTRACTOR SHALL SEAL JOINTS WITH POLYURETHANE SEALANT, MEETING NDOT APPROVED PRODUCTS LIST.
 3. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER, PRIOR TO CONSTRUCTION, A CONCRETE PAVEMENT JOINTING PLAN FOR REVIEW AND APPROVAL. MAXIMUM SPACING ON A TRANSVERSE JOINT SHALL BE DETERMINED BY THE THICKNESS OF PAVEMENT, CONTACT ENGINEER.

1 CONCRETE PAVING JOINT DETAILS
C2.0 NO SCALE



- NOTES:
1. CONTRACTOR SHALL SEAL JOINTS WITH POLYURETHANE SEALANT, MEETING NDOT APPROVED PRODUCTS LIST.

4 THICKENED EDGE CONCRETE PAVEMENT
C2.0 NO SCALE

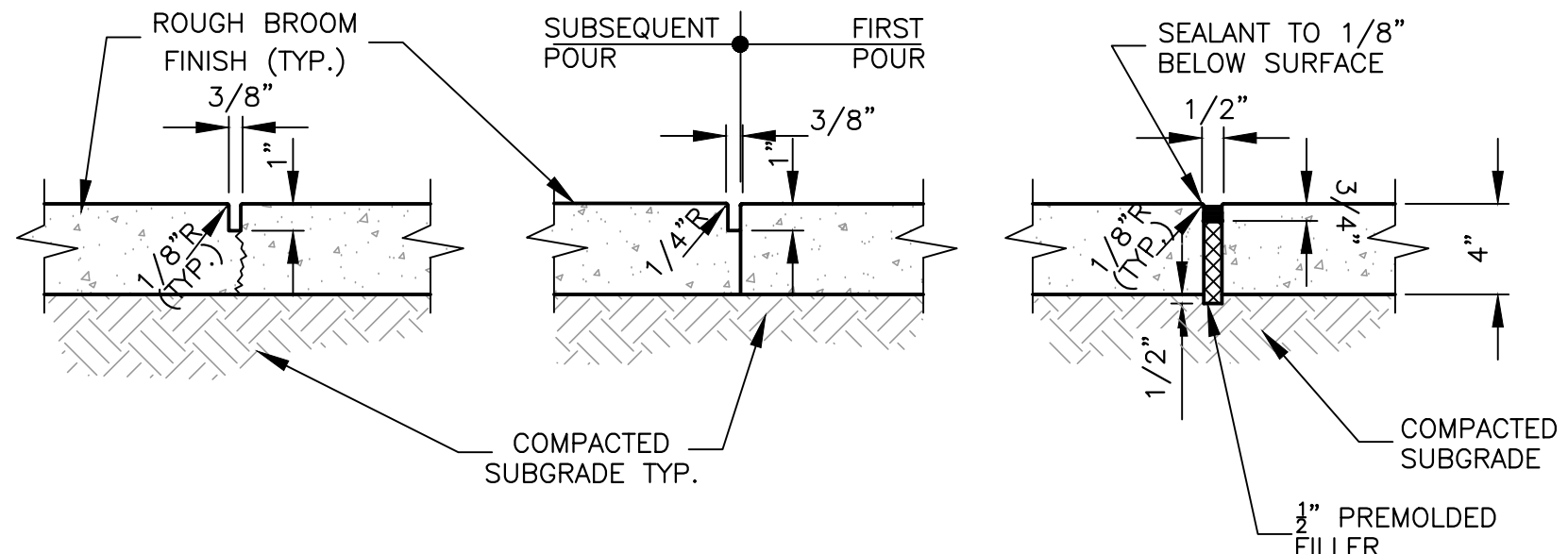


INTEGRAL CURB SECTION

SECTION CONTRACTION JOINT

- NOTES:
1. CONTRACTOR SHALL SEAL JOINTS WITH POLYURETHANE SEALANT, MEETING NDOT APPROVED PRODUCTS LIST.

2 INTEGRAL CURB DETAIL
C2.0 NO SCALE



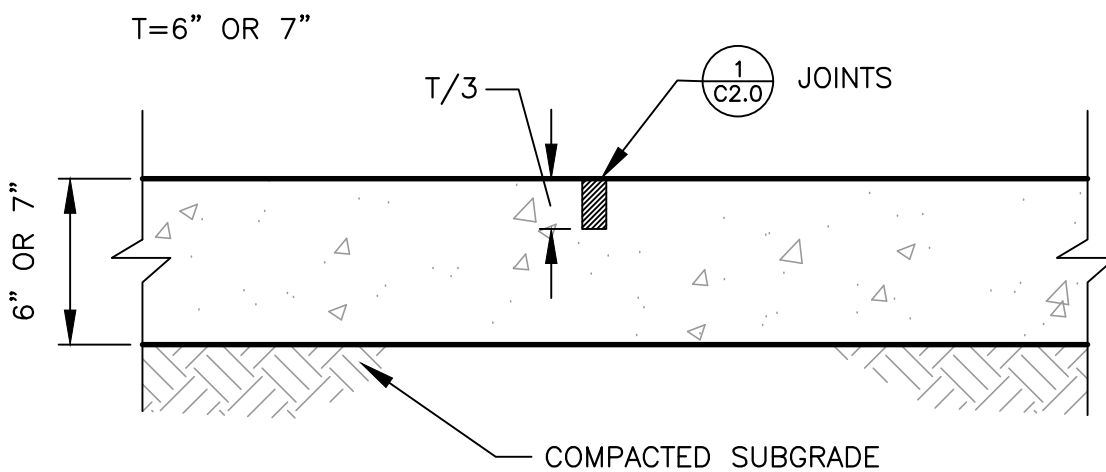
CONTRACTION JOINT

CONSTRUCTION JOINT

EXPANSION JOINT

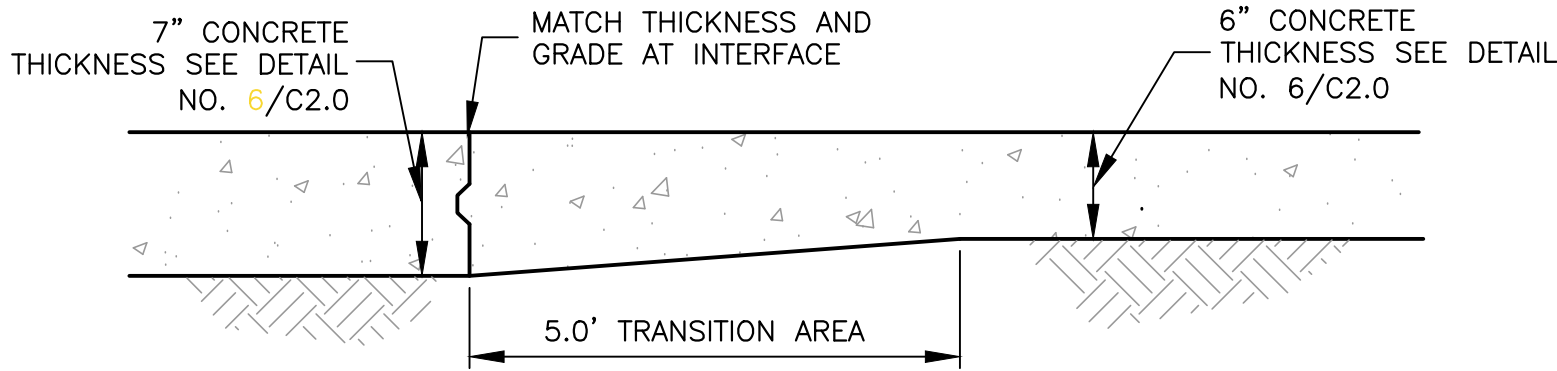
- MAXIMUM SPACING = WIDTH OF THE WALK UNLESS INDICATED OTHERWISE ON PLANS
- USE ONLY WHERE CONSTRUCTION JOINTS WOULD OCCUR
- SPACE AS SHOWN ON LAYOUT PLAN (@ 40' MAX.) AND WHERE ABUTTING ALL STRUCTURES, PAVEMENT AND CURBS
- NOTES:
1. WHEN ABUTTING EXISTING SIDEWALK, MATCH EXISTING PATTERN LOCATION OF CONTROL AND EXPANSION JOINTS UNLESS OTHERWISE INDICATED.
 2. PROVIDE 1/2" E.J. WITH SEALANT WHEN ABUTTING BACK OF CURB AND STRUCTURES.
 3. ALL SIDEWALKS SLOPE AT 2% AWAY FROM BUILDING OR TOWARD CURBS UNLESS SHOWN OTHERWISE.
 4. CONTRACTOR SHALL SEAL JOINTS WITH POLYURETHANE SEALANT, MEETING NDOT APPROVED PRODUCTS LIST.

3 CONCRETE SIDEWALK JOINT DETAILS
C2.0 NO SCALE



- NOTES:
1. CONTRACTOR SHALL SEAL JOINTS WITH POLYURETHANE SEALANT, MEETING NDOT APPROVED PRODUCTS LIST.

6 6" OR 7" CONCRETE PAVEMENT
C2.0 NO SCALE



5 TRANSITION SECTION
C2.0 NO SCALE

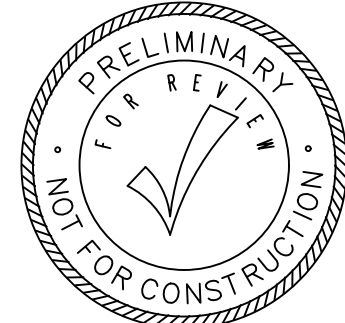
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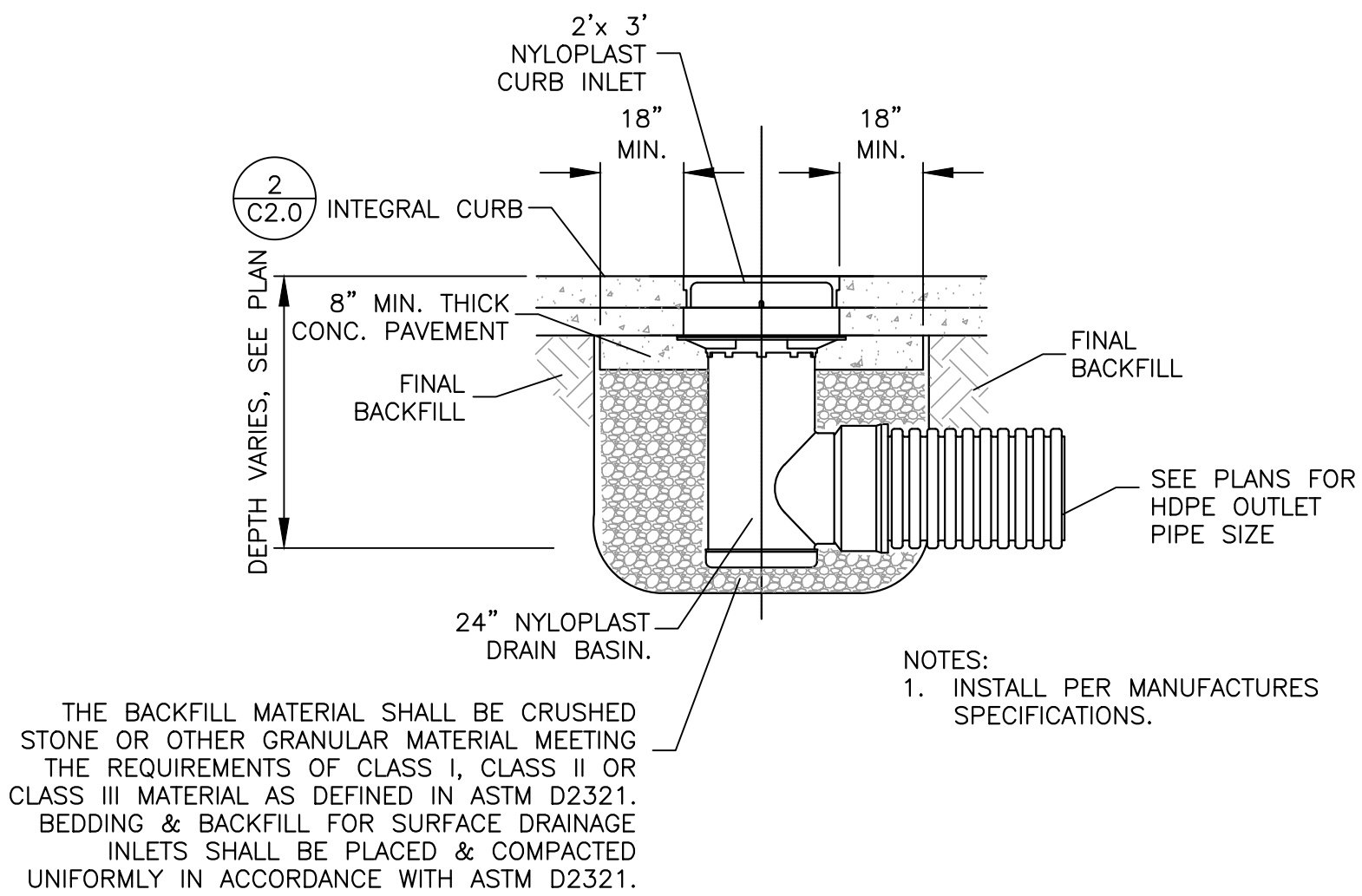


SHEET NO.
C2.0

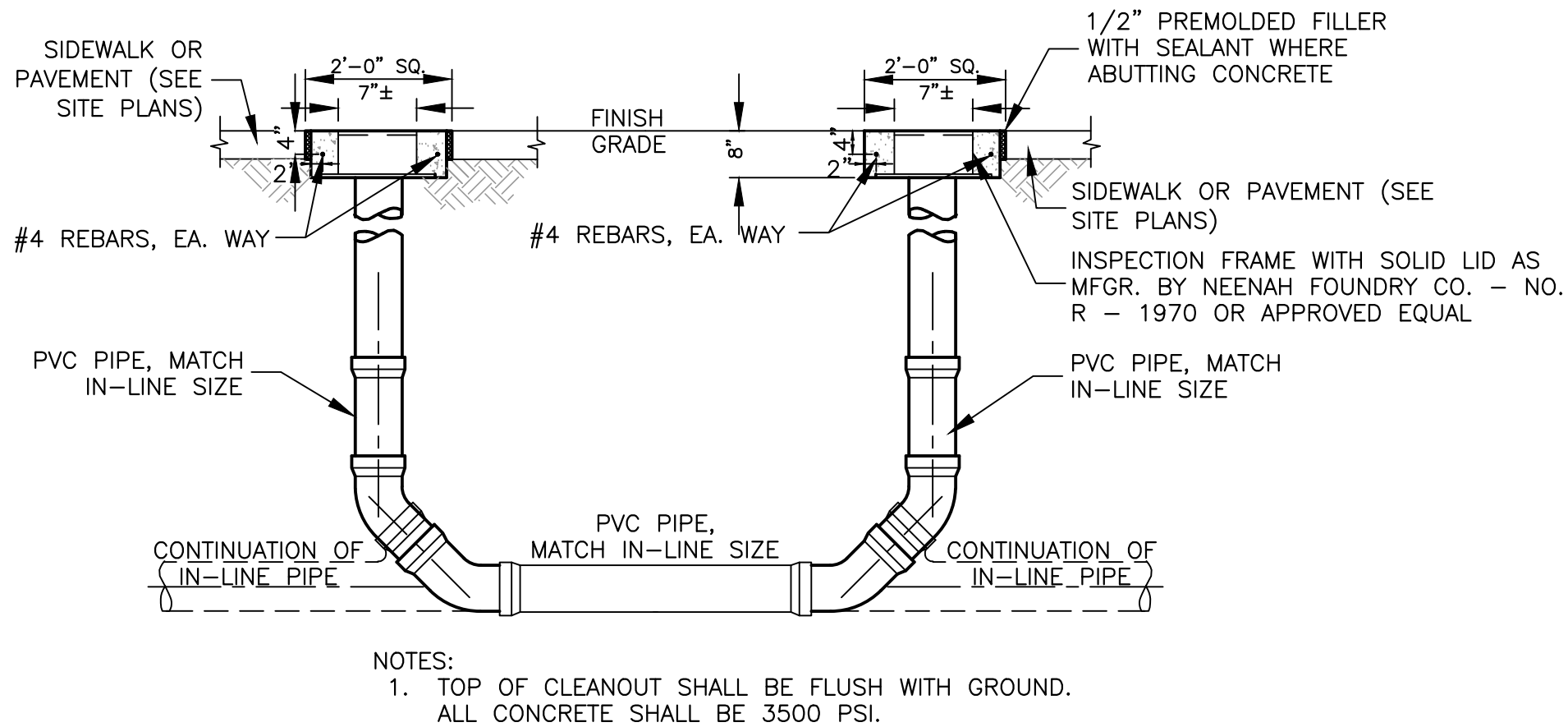


MISC DETAILS

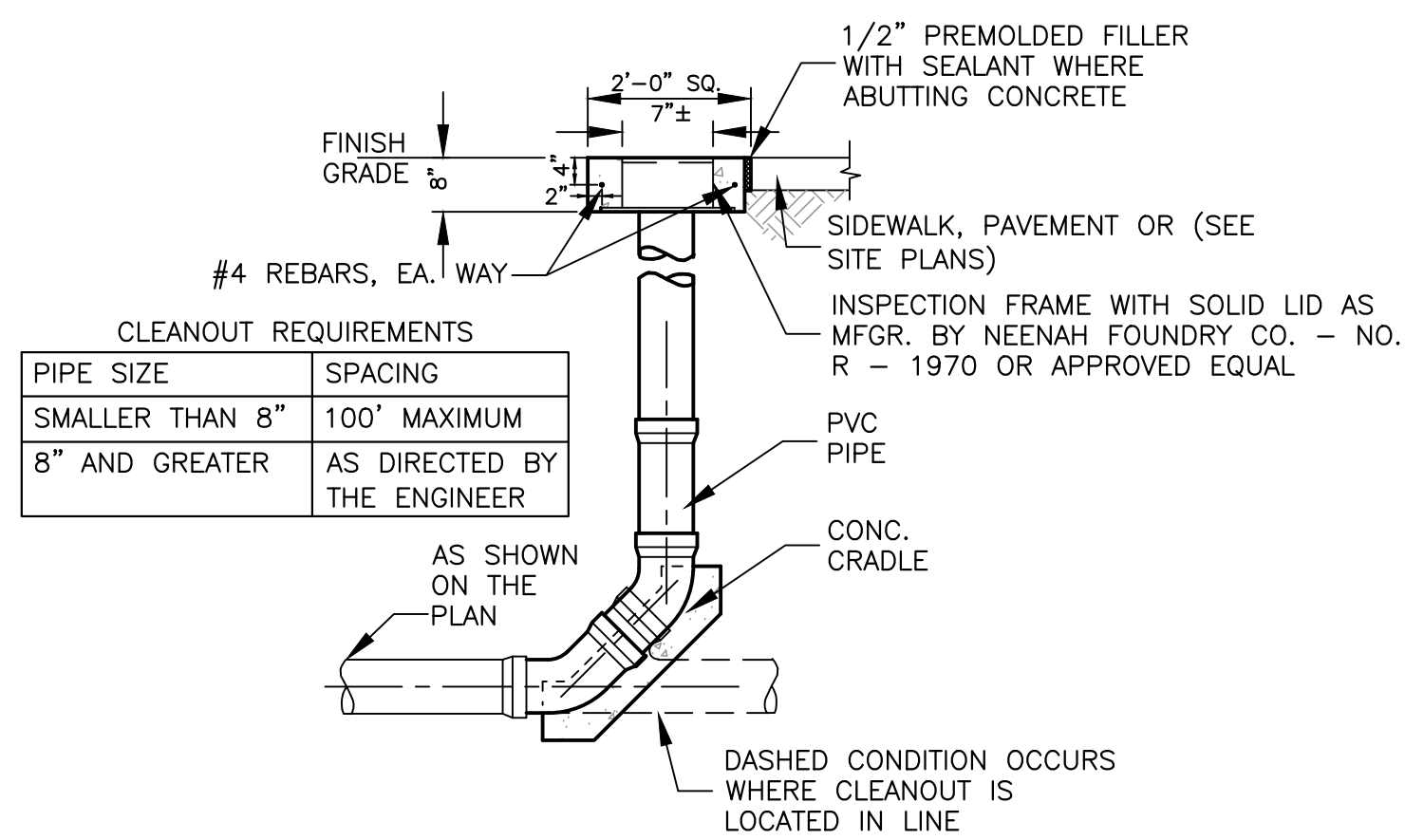




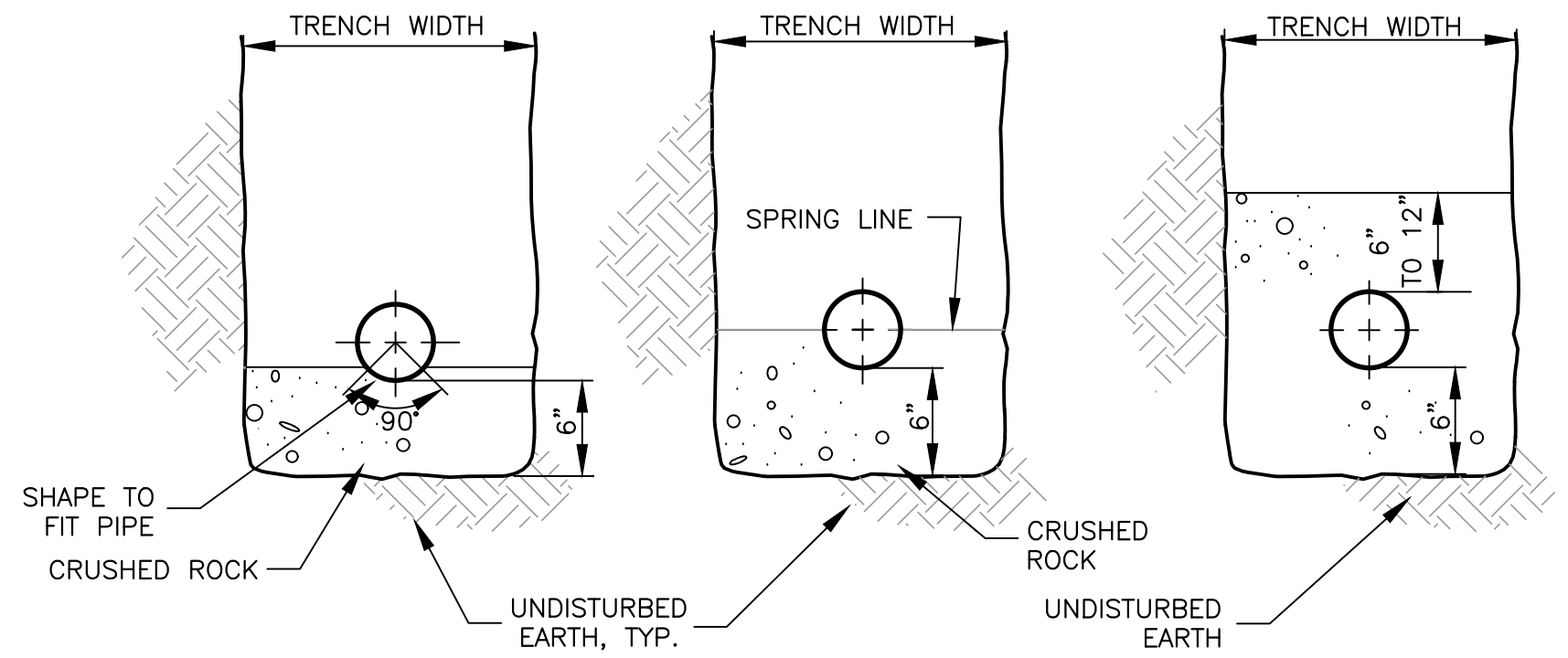
1 NYLOPLAST CURB INLET
C2.2 NO SCALE



2 DOUBLE CLEANOUT DETAIL
C2.2 NO SCALE

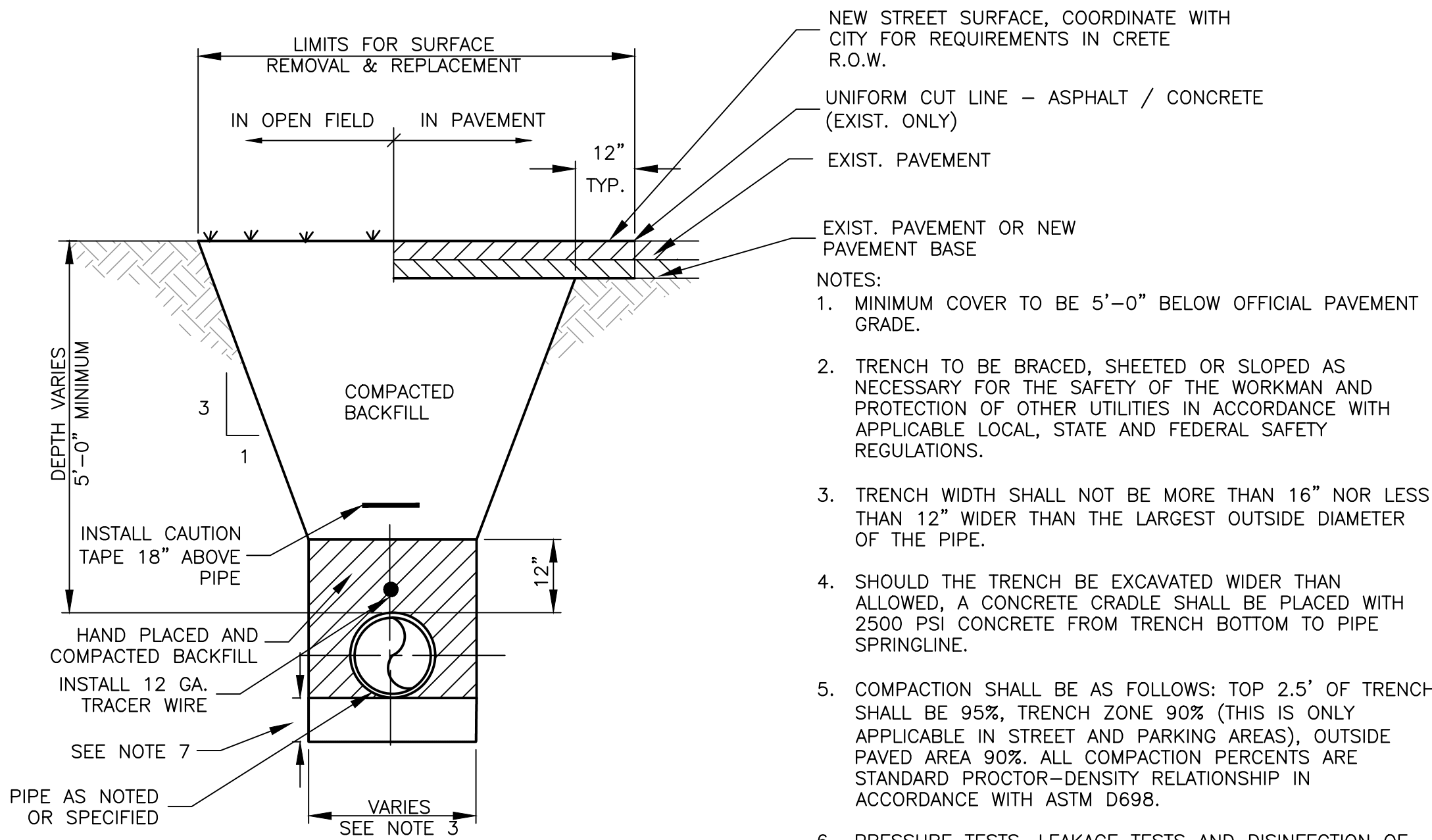


3 CLEANOUT DETAIL
C2.2 NO SCALE



- DIP OR RCP**
- NOTES:
- TRENCH WIDTH: MINIMUM = PIPE O.D. PLUS 1'-4" MAXIMUM = PIPE O.D. PLUS 2'-0"
 - CRUSHED ROCK FOR PIPE BEDDING FOR PIPES 15 INCHES IN DIAMETER AND SMALLER SHALL CONFORM TO GRADATIONS AS FOLLOWS:
- | SIEVE SIZE | PERCENTAGE PASSING |
|------------|--------------------|
| 3/4 INCH | 100 |
| 3/8 INCH | 60 ± 15 |
| NO. 4 | 30 ± 15 |
| NO. 10 | 15 ± 10 |
| NO. 200 | 5 ± 5 |
- CRUSHED ROCK FOR PIPE BEDDING SHALL BE SUBSIDIARY TO THE COST OF THE PIPE. IF UNSTABLE TRENCH BOTTOM SUBGRADE CONDITIONS ARE ENCOUNTERED, ADDITIONAL CRUSHED ROCK FOR BEDDING AND EXTENT SHALL BE AS DIRECTED BY THE ENGINEER. THE COST, MEASUREMENT, AND PAYMENT FOR ADDITIONAL CRUSHED ROCK FOR UNSTABLE TRENCH BOTTOM SUBGRADE PIPE BEDDING CONDITIONS SHALL BE PAID FOR PER TON OF CRUSHED ROCK PLACED.
 - TRENCH SHALL BE BRACED, SHEETED OR SLOPED AS NECESSARY FOR THE SAFETY OF WORKMEN AND PROTECTION OF OTHER UTILITIES IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.
 - HDPE SHOWN IS FOR DRAINAGE AND NOT WELL FIELD. WHEN APPLICABLE, SEE MECHANICAL PLANS FOR WELL FIELD INFORMATION.

4 PIPE ENVELOPE
C2.2 NO SCALE



5 PIPE ENVELOPE-WATER
C2.2 NO SCALE

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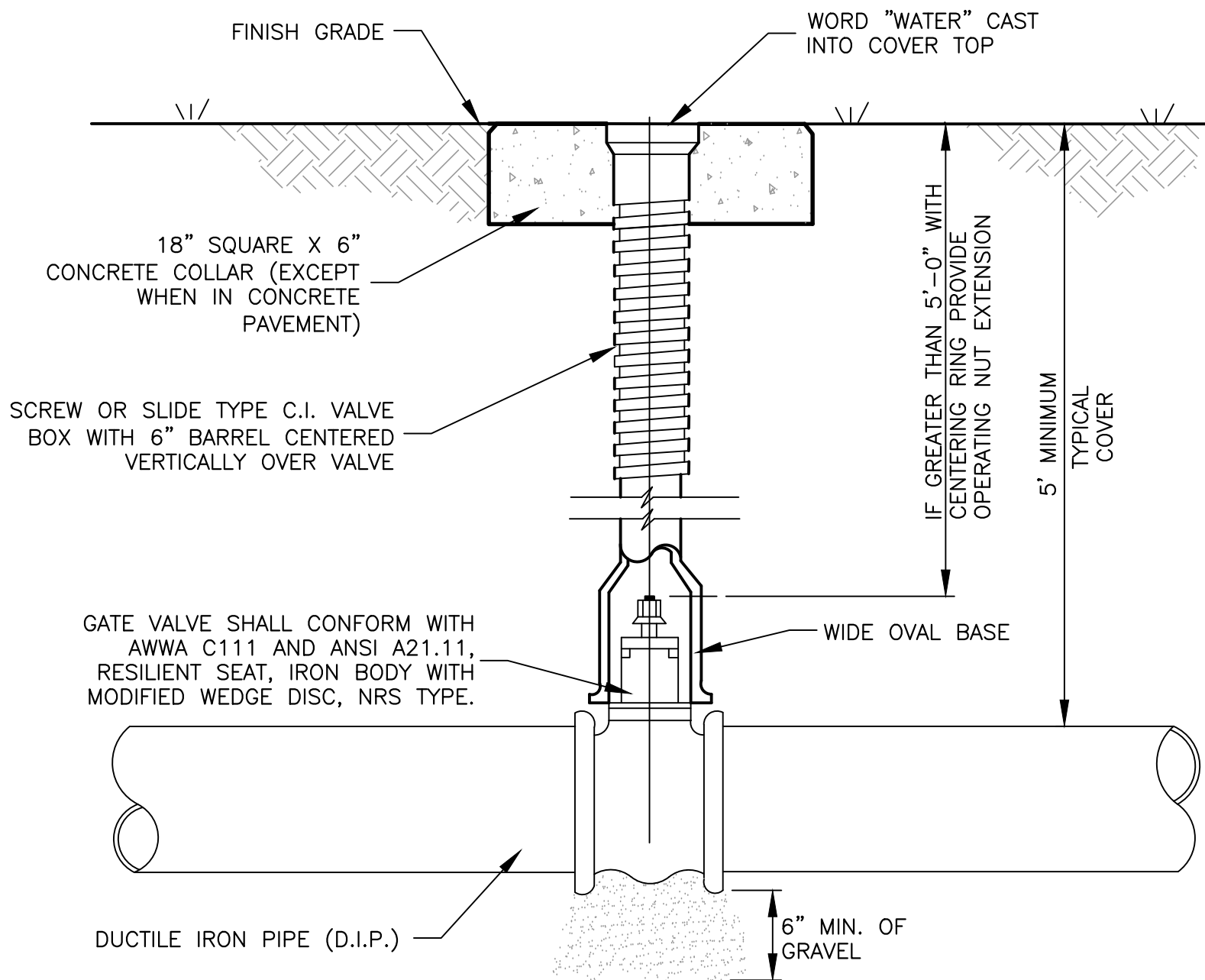


SHEET NO.

C2.2

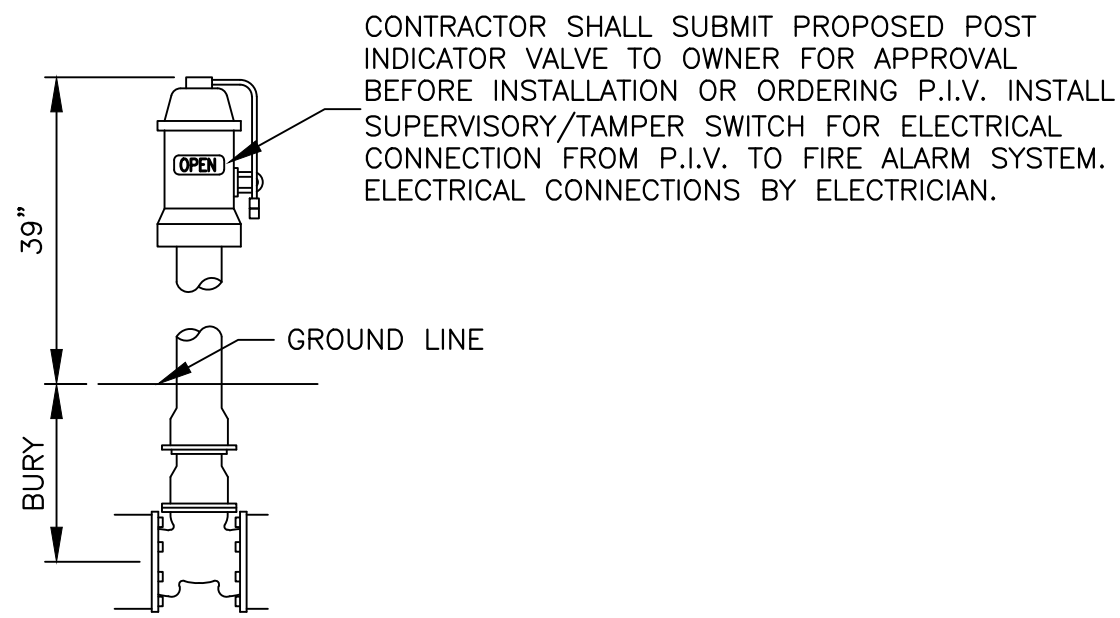


MISC DETAILS

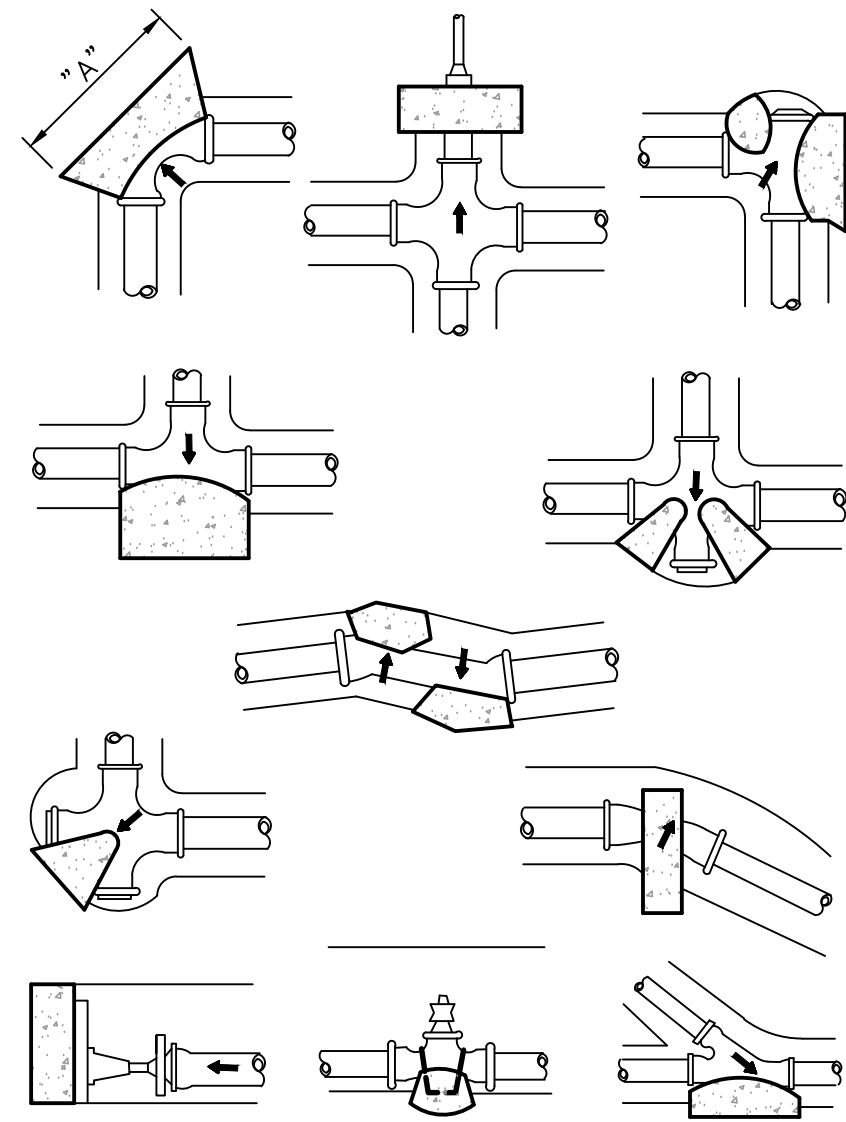


- NOTES:
- FITTING SHALL BE WRAPPED WITH 8 MIL MINIMUM THICKNESS POLYETHYLENE.
 - REDUCERS SHALL BE REQUIRED FOR CASES WHERE VALVE IS DOWN SIZED FROM PIPING.

1
C2.3
WATER VALVE BOX
NO SCALE



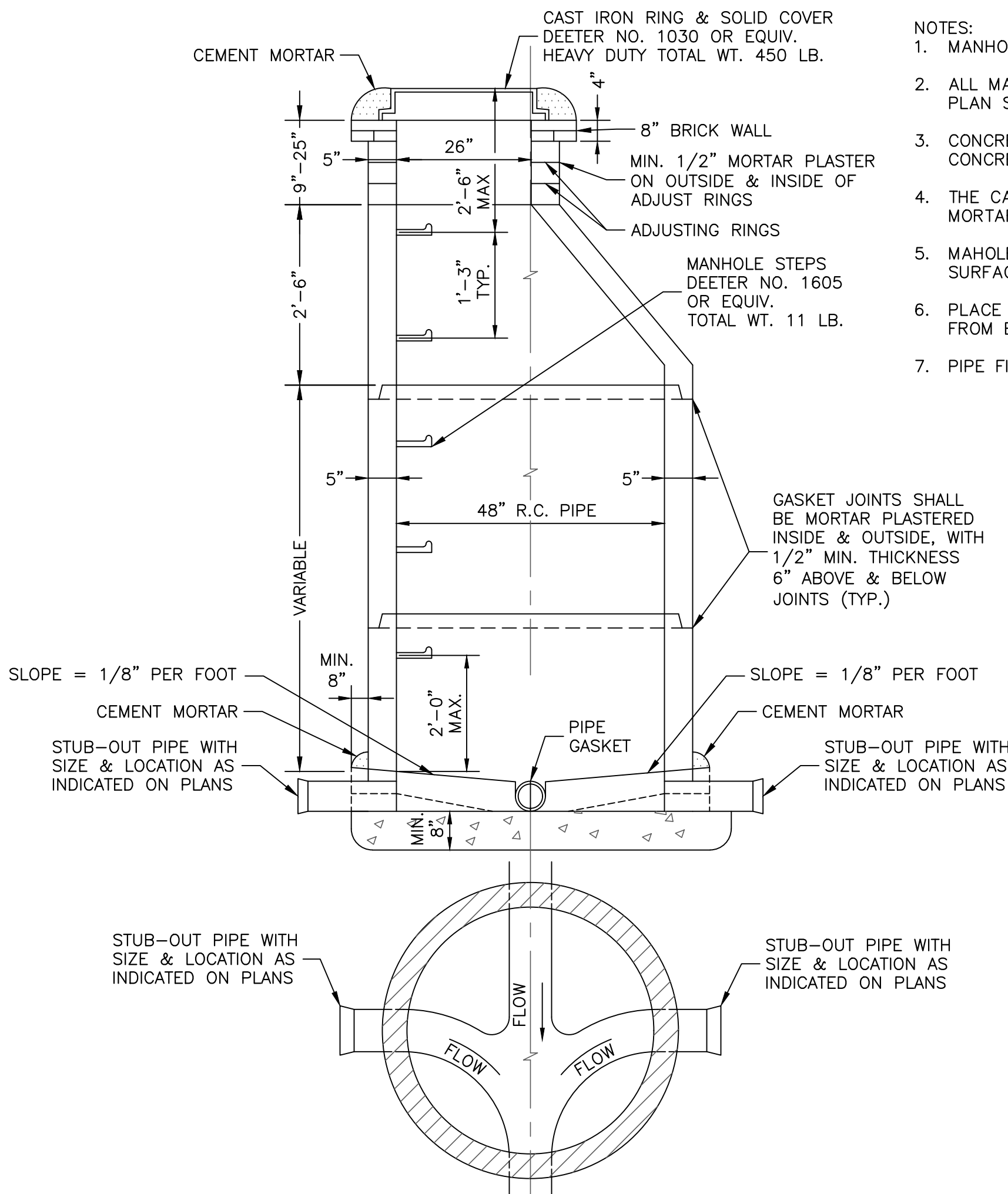
2
C2.3
POST INDICATOR VALVE DETAIL
NO SCALE



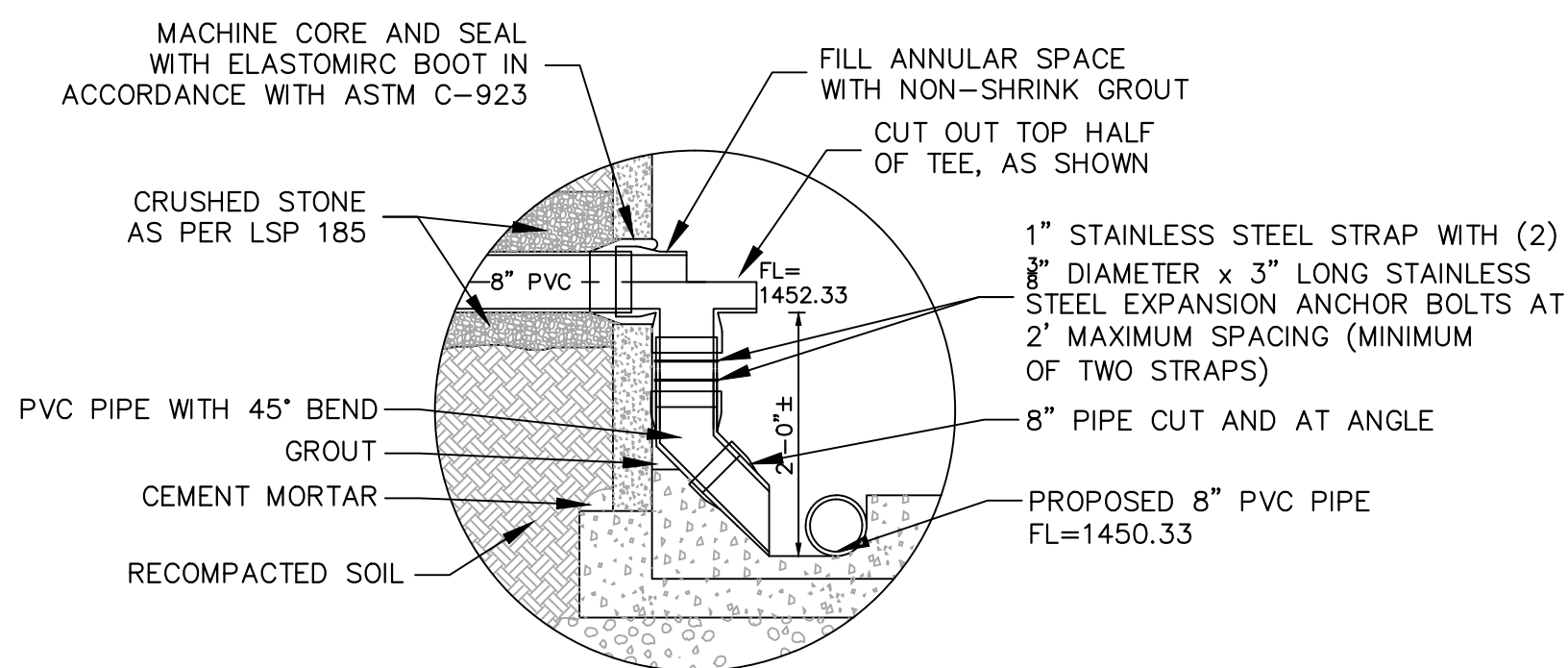
PIPE SIZE	BEARING AREA OF BLOCK "A" SQ. FT.				
	TEE & END	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
4	4.9	6.9	3.8	1.9	1.0
6	8.4	11.8	6.4	3.3	1.8
8	13.7	19.3	10.5	5.4	2.7
10	19.4	27.3	14.9	7.7	3.9
12	26.3	37.0	20.2	10.3	5.3

- NOTES:
- ARROW INDICATES DIRECTION OF THRUST.
 - BEAR THRUST BLOCKS AGAINST UNDISTURBED EARTH.
 - DO NOT EXTEND CONCRETE BEYOND BELL FITTING, OR RESTRICT MECHANICAL JOINT BOLT REMOVAL.
 - REQUIRED THRUST BLOCK AREAS "A" ARE BASED ON A SOIL BEARING PRESSURE OF 2000 PSF AND A DESIGN PRESSURE OF 250 PSI.

3
C2.3
TYPICAL THRUST BLOCKING
NO SCALE



4
C2.3
SANITARY SEWER MANHOLE
NO SCALE



5
C2.3
DROP DETAIL ON SANITARY SEWER MANHOLE INSIDE
NO SCALE