-STREETS-

Detail #

3000 Vertical Curb, Gutter and Sidewalk
3010 Low-Profile Curb, Gutter and Sidewalk
3020 Rolled Curb, Gutter and Sidewalk
3030 Separated Sidewalk, Curb & Gutter
3040 Sidewalk Staged Construction
3050 Curb, Gutter, and Sidewalk Details
3060 Valley Gutters
3070 Residential Driveway, Vertical Curb
3080 Residential Driveway, Conventional Vertical Curb
3090 Residential Driveway, Separated Sidewalk
3100 Commercial Driveway
3110 Commercial Driveway With Restricted R/W
3120 Industrial Driveway
3130 Street Replacement at Driveway or Curb and Gutter
3140 Curb Ramp (Type 1), Residential Street
3150 Curb Ramp (Type 2), Residential and Collector Street
3160 Curb Ramp (Type 3), Arterial and Collector Street
3170 Curb Ramp (Type 4 and 5), Mid-block Ramp
3180 Separated Sidewalk Curb Ramp (Type 6), Residential and Collector Street
3190 Alley Sections, Type 1 and 2 New & Existing Right-of-Way
3200 Alley Apron
3210 Street Survey Monument
3220 Street Sign
3230 Median Signs With “Break-Away”
3240 Street Name Sign
3250 Sidewalk Barricade
3260 End of Street Barricade
3270 Street Transition Sign and Barricade
3280 Trench Backfill For City Utilities Within Paved Area
3290 Trench Backfill For City Utilities In Unpaved Areas
3300 Utility Trench For Non-City Utilities
3310 Pavement Digout Repair
3320 PVC & Concrete Filled Steel Pipe Bollard
3330 Access Gate
3340 Median Island

-MANHOLES-

Detail #

4000 Manhole Frame & Cover
4010 Manhole For Pipes Less Than 24”
4020 Manhole For Pipes 24” To 48” Diameter
4030 Saddle Manhole For Pipes Larger Than 48”
4040 Manhole Plug For Future Pipe
4050 Unimproved Area Manhole Frame & Bollards

-STORM DRAIN-

4500 Storm Drain Manhole Installation In Sidewalk
4510 Storm Drain Curb Inlet Type A, Pipes < 24”
4520 Storm Drain Curb Inlet Type A, Pipes ≥ 24”
4530 Storm Drain Curb Inlet Type B, Pipes < 24”
4540 Storm Drain Curb Inlet Type B, Pipes ≥ 24”
4550 “No Dumping” Curb Inlet Label
4560 Curb Inlet, Type A
4570 Curb Inlet, Type B
4580 Under Sidewalk Drain
4590 Field Inlets
4600 Field Inlet

-WATER-

Detail #

5000 Trench Details for Polyvinyl Chloride Pipe (PVC)
5010 Water-Sewer Separation Detail
5020 Fitting and Thrust Blocks for Horizontal Bends and Tees
5030 Fitting and Thrust Blocks for Vertical Downward Bends
5040 Fitting and Thrust Blocks for Vertical Upward Bends
5050 "Cut-In" Tee or Cross Detail for Lateral Connection
5060 Fire Hydrant Detail
5070 Fire Hydrant Installation for Developed Areas
5080 Fire Hydrant Installation for Undeveloped Areas
5090 Traffic Box and Valve Details
5100 3/4"-1" Meter Connection
5110 3/4"-1" Double Meter Connection
5120 1-1/2"-2" Meter Connection
5130 1" Connection With Sample Station
5140 Blow-Off Assemblies
5150 Air & Vacuum Valve Assembly
5160 3/4"-2" Reduced Pressure Backflow Preventer Installation
5170 Reduced Pressure Backflow Preventer Protective Enclosure
5180 3" - 10" Reduced Pressure Backflow Preventer Installation
5190 Reduced Pressure Detector Assembly (RPDA)
5191 Double Check Detector Assembly (DCDA)
5200 Residential Fire Sprinkler Service Installation
5210 Water and Non-Potable Pipeline Separation Detail
5220 4" Wharf Hydrant

-SANITARY SEWER-

6010 Inside Sanitary Sewer Drop Manhole
6020 Sewer Lateral Cleanout
6030 Sewer Service Lateral
6040 Sewer Main Tap

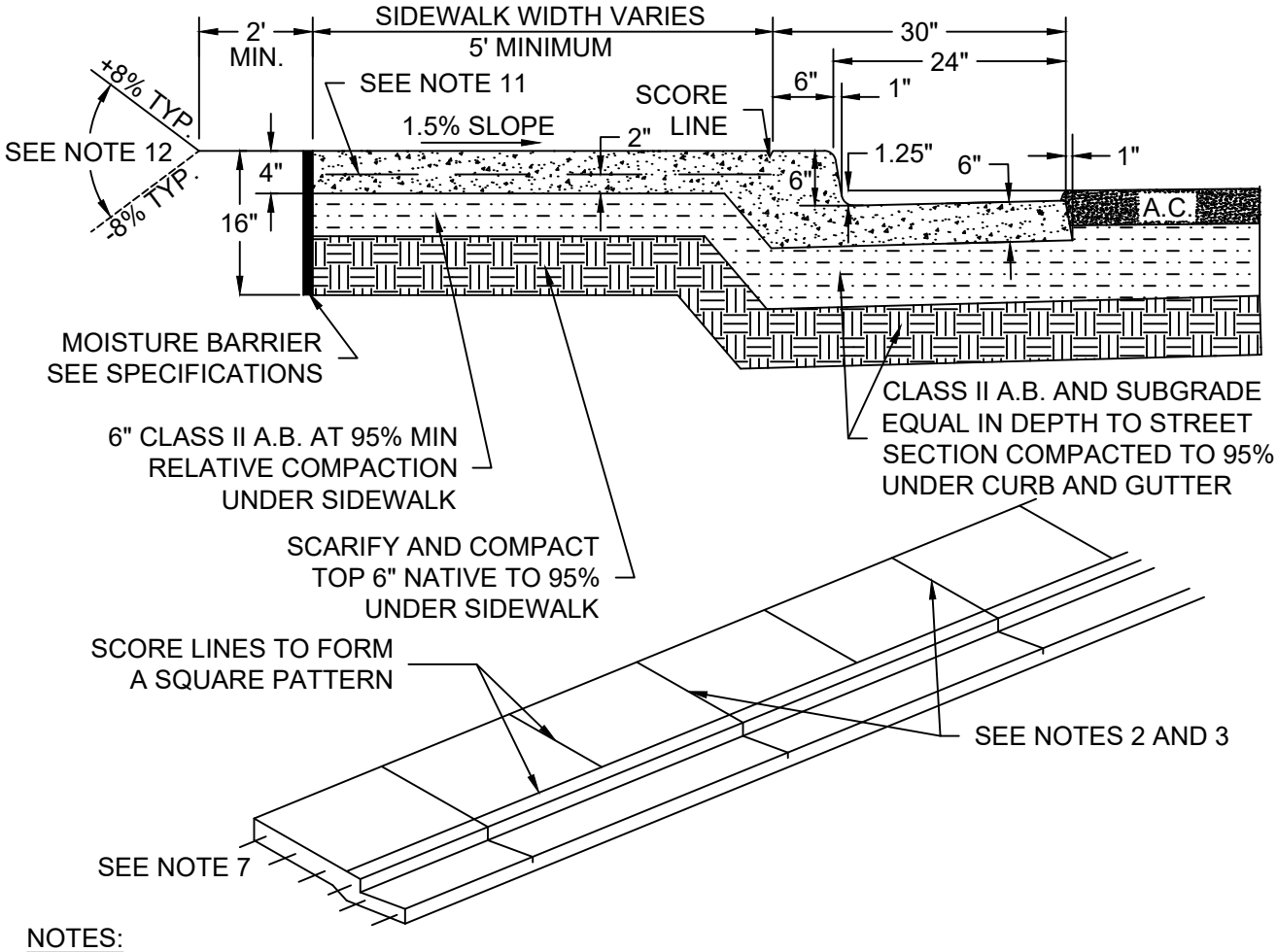
-STREET LIGHTING-

Detail #

7000 Street Light Pole Installation
7010 Street Light Foundation Cast-in-Place
7020 Street Light Pole-to-Base Attachment
7030 Street Light Pole Specifications
7040 Street Light Box and Conduit Installation
7050 Standard Street Light Numbering
7070 Fluted Pole Top Path Light
7080 Fluted Pole Top Path Light Base Detail

-IRRIGATION AND LANDSCAPING-

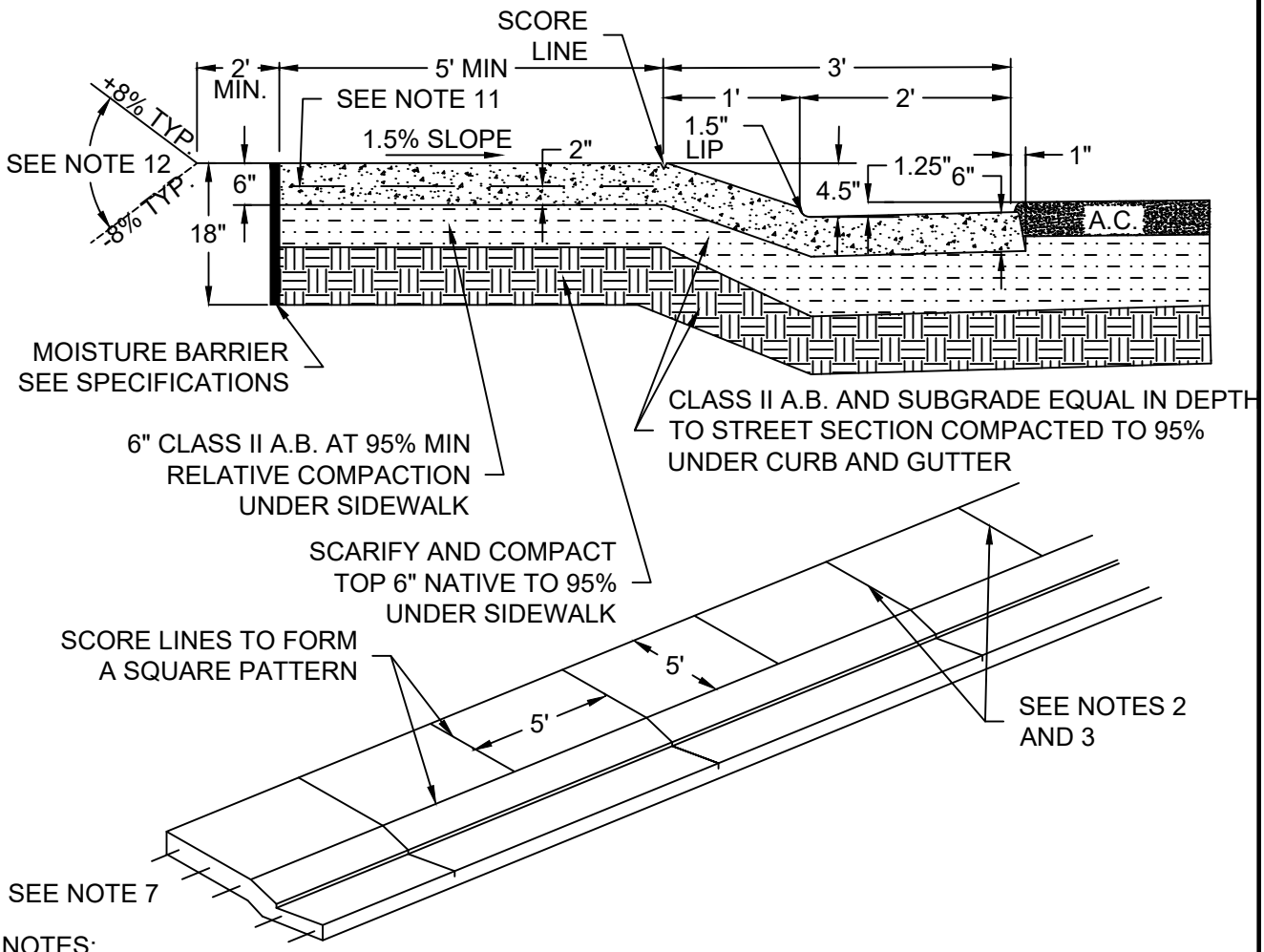
8000 Tree Planting
8010 Shrub Planting
8020 Irrigation Controller
8030 Remote Control And Ball Valve Combination
8040 Irrigation Drip Filtering System
8050 Quick Coupler
8060 Typical Spray Head
8070 Irrigation Box Arrangement
8080 Typical Bubbler
8090 Drip Irrigation Flush Plug
8100 Drip Emitter Arrangement
8110 Underground Wire Splice
8120 Drip Irrigation Multi-Outlet Emitter



NOTES:

1. USE CITY STANDARD CONCRETE.
2. SCORE LINES SHALL BE $\frac{1}{2}$" DEEP AND FORM A SQUARE.
3. WEAKENED PLANE JOINTS SHALL BE $1\frac{1}{4}$" DEEP AND INSTALLED AT 12' MAX INTERVALS TO MATCH SCORE LINES.
4. PLACE EXPANSION JOINTS AT CURB RETURNS, TRANSITIONS TO DRAIN INLETS, AND DRIVEWAYS AND 60' INTERVALS.
5. APPLY "FINE BROOM" FINISH TO SIDEWALK PERPENDICULAR TO STREET; APPLY "FINE BROOM" FINISH TO CURB AND GUTTER PARALLEL TO STREET.
6. NEW SIDEWALK, CURB AND GUTTER SHALL BE MONOLITHICALLY POURED.
7. EXISTING CONCRETE TO BE MATCHED SHALL BE DRILLED AND EPOXY DOWELED WITH 8" LONG, #4 REBAR AT 12" MAXIMUM ON CENTER.
8. ALL CORNERS SHALL HAVE $\frac{1}{2}$" TOOLED RADIUS.
9. FOR CURB TYPE TRANSITION DETAILS AND WEAKENED PLANE JOINT DETAIL SEE DETAIL 3050.
10. FOR CURB AND GUTTER TRANSITION DETAILS AT CURB INLETS, SEE DETAIL 4090 AND 4100.
11. 6"x6"x10 GAUGE WIRE REINFORCEMENT REQUIRED FOR ALL SIDEWALKS.
12. A MAXIMUM SLOPE GRADE OF 5:1 WILL BE ALLOWED AT STREET LANDSCAPING APPLICATIONS WHERE APPROVED BY THE CITY ENGINEER.
13. SIDEWALK REPLACEMENT IN EXISTING NEIGHBORHOOD SHALL BE SCORED TO MATCH EXISTING, SUBJECT TO THE APPROVAL OF THE CITY ENGINEER.
14. ALL UTILITY CROSSINGS SHALL BE MARKED ON CONCRETE DURING POUR.

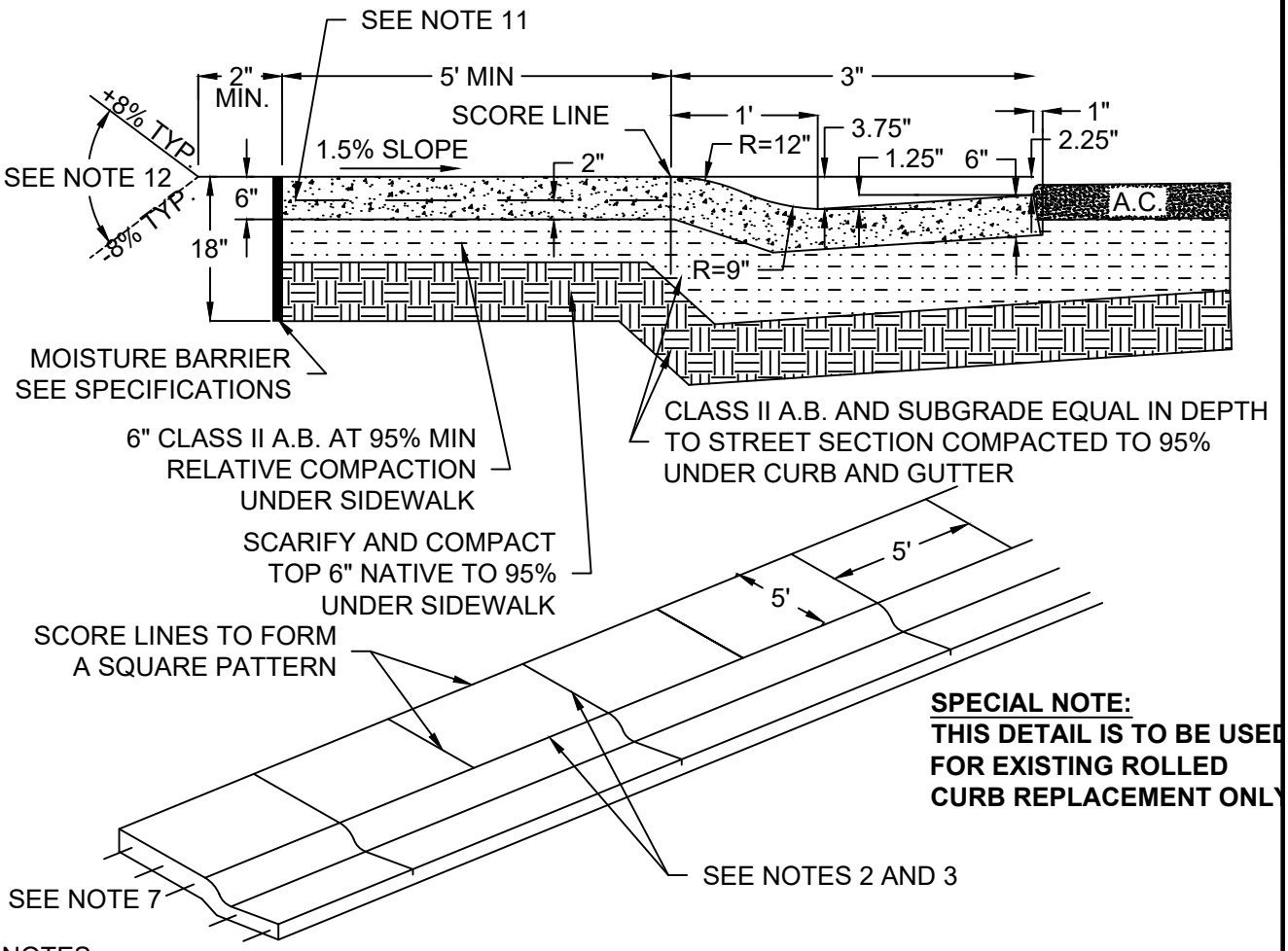
CITY OF DIXON ENGINEERING STANDARD DETAIL	REGISTERED PROFESSIONAL ENGINEER DEBORAH A. BARR 2654 CIVIL STATE OF CALIFORNIA APPROVED: MARCH 2022	VERTICAL CURB, GUTTER & SIDEWALK	3000



NOTES:

1. USE CITY STANDARD CONCRETE.
2. SCORE LINES SHALL BE $\frac{1}{2}$" DEEP AND FORM A SQUARE.
3. WEAKENED PLANE JOINTS SHALL BE $1\frac{1}{4}$" DEEP AND INSTALLED AT 12' MAX INTERVALS TO MATCH SCORE LINES.
4. PLACE EXPANSION JOINTS AT CURB RETURNS, TRANSITIONS TO DRAIN INLETS, AND DRIVEWAYS AND 60' INTERVALS.
5. APPLY "FINE BROOM" FINISH TO SIDEWALK PERPENDICULAR TO STREET; APPLY "FINE BROOM" FINISH TO CURB AND GUTTER PARALLEL TO STREET.
6. NEW SIDEWALK, CURB AND GUTTER SHALL BE MONOLITHICALLY POURED.
7. EXISTING CONCRETE TO BE MATCHED SHALL BE DRILLED AND EPOXY DOWELED WITH 8" LONG, #4 REBAR AT 12" MAXIMUM ON CENTER.
8. ALL CORNERS SHALL HAVE $\frac{1}{2}$" TOOLED RADIUS.
9. FOR CURB TYPE TRANSITION DETAILS AND WEAKENED PLANE JOINT DETAIL SEE DETAIL 3050.
10. FOR CURB AND GUTTER TRANSITION DETAILS AT CURB INLETS, SEE DETAIL 4090 AND 4100.
11. 6"x6"x10 GAUGE WIRE REINFORCEMENT REQUIRED FOR ALL SIDEWALKS.
12. A MAXIMUM SLOPE GRADE OF 5:1 WILL BE ALLOWED AT STREET LANDSCAPING APPLICATIONS WHERE APPROVED BY THE CITY ENGINEER.
13. SIDEWALK REPLACEMENT IN EXISTING NEIGHBORHOOD SHALL BE SCORED TO MATCH EXISTING, SUBJECT TO THE APPROVAL OF THE CITY ENGINEER.
14. ALL UTILITY CROSSINGS SHALL BE MARKED ON CONCRETE DURING POUR.

3010	LOW-PROFILE CURB GUTTER & SIDEWALK	APPROVED: MARCH 2022	CITY OF DIXON ENGINEERING STANDARD DETAIL

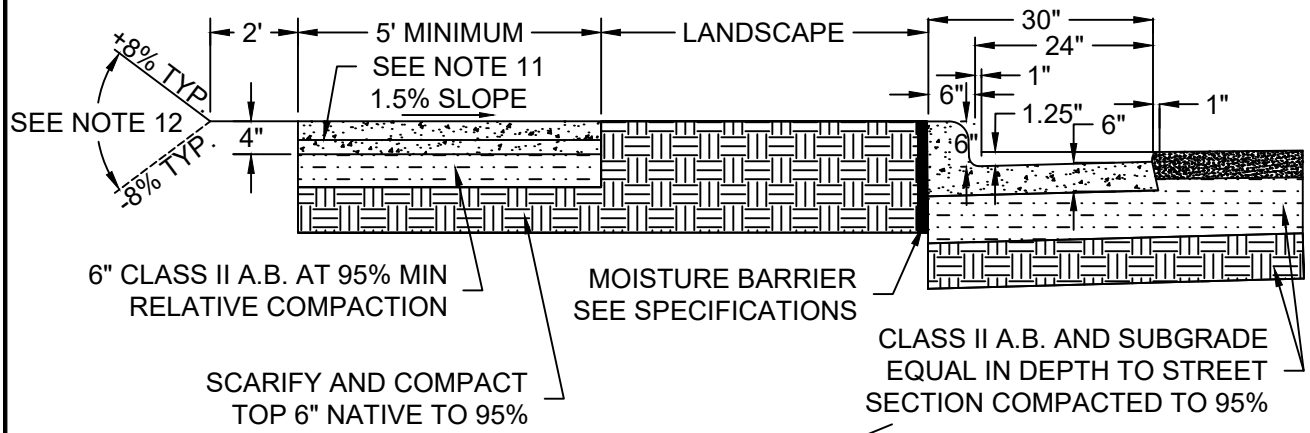


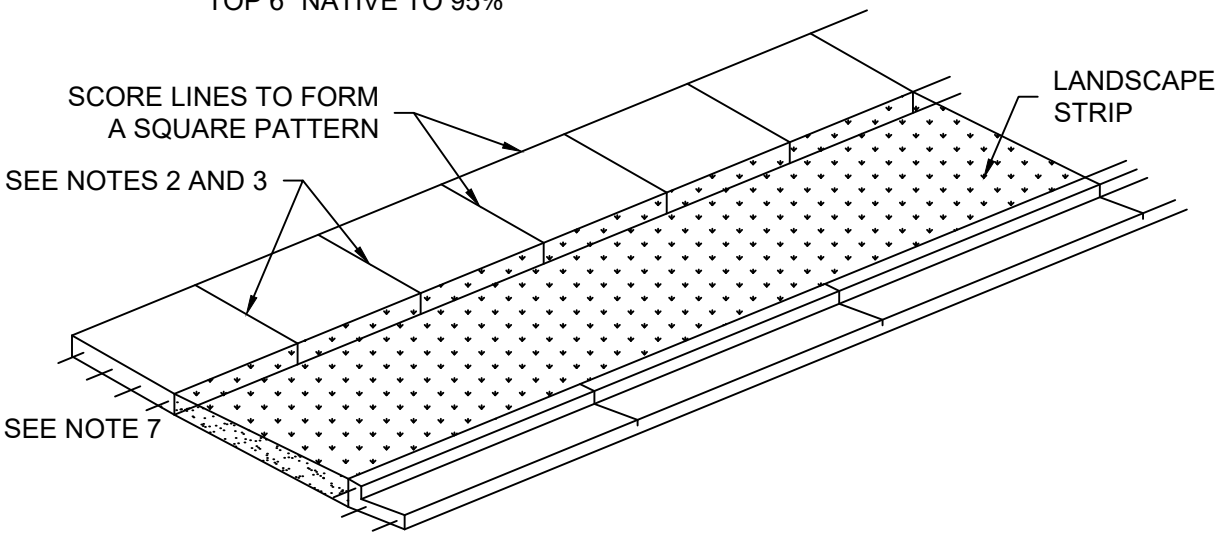
SPECIAL NOTE:
THIS DETAIL IS TO BE USED FOR EXISTING ROLLED CURB REPLACEMENT ONLY

NOTES:

1. USE CITY STANDARD CONCRETE.
2. SCORE LINES SHALL BE $\frac{1}{2}$" DEEP AND FORM A SQUARE.
3. WEAKENED PLANE JOINTS SHALL BE $1\frac{1}{4}$" DEEP AND INSTALLED AT 12' MAX INTERVALS TO MATCH SCORE LINES.
4. PLACE EXPANSION JOINTS AT CURB RETURNS, TRANSITIONS TO DRAIN INLETS, AND DRIVEWAYS AND 60' INTERVALS.
5. APPLY "FINE BROOM" FINISH TO SIDEWALK PERPENDICULAR TO STREET; APPLY "FINE BROOM" FINISH TO CURB AND GUTTER PARALLEL TO STREET.
6. NEW SIDEWALK, CURB AND GUTTER SHALL BE MONOLITHICALLY POURED.
7. EXISTING CONCRETE TO BE MATCHED SHALL BE DRILLED AND EPOXY DOWELED WITH 8" LONG, #4 REBAR AT 12" MAXIMUM ON CENTER.
8. ALL CORNERS SHALL HAVE $\frac{1}{2}$" TOOLED RADIUS.
9. FOR CURB TYPE TRANSITION DETAILS AND WEAKENED PLANE JOINT DETAIL SEE DETAIL 3050.
10. FOR CURB AND GUTTER TRANSITION DETAILS AT CURB INLETS, SEE DETAIL 4090 AND 4100.
11. 6"x6"x10 GAUGE WIRE REINFORCEMENT REQUIRED FOR ALL SIDEWALKS.
12. A MAXIMUM SLOPE GRADE OF 5:1 WILL BE ALLOWED AT STREET LANDSCAPING APPLICATIONS WHERE APPROVED BY THE CITY ENGINEER.
13. SIDEWALK REPLACEMENT IN EXISTING NEIGHBORHOOD SHALL BE SCORED TO MATCH EXISTING, SUBJECT TO THE APPROVAL OF THE CITY ENGINEER.
14. ALL UTILITY CROSSINGS SHALL BE MARKED ON CONCRETE DURING POUR.

CITY OF DIXON ENGINEERING STANDARD DETAIL	REGISTERED PROFESSIONAL ENGINEER DEBORAH A. BARR No. 35541 CIVIL STATE OF CALIFORNIA APPROVED: MARCH 2022	ROLLED CURB, GUTTER & SIDEWALK	3020

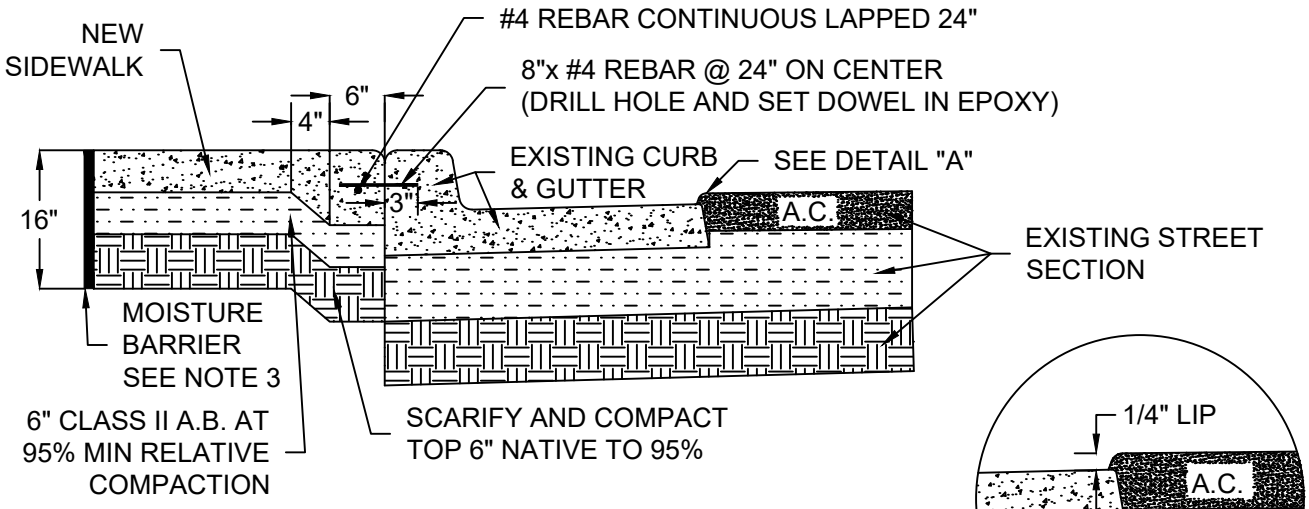




NOTES:

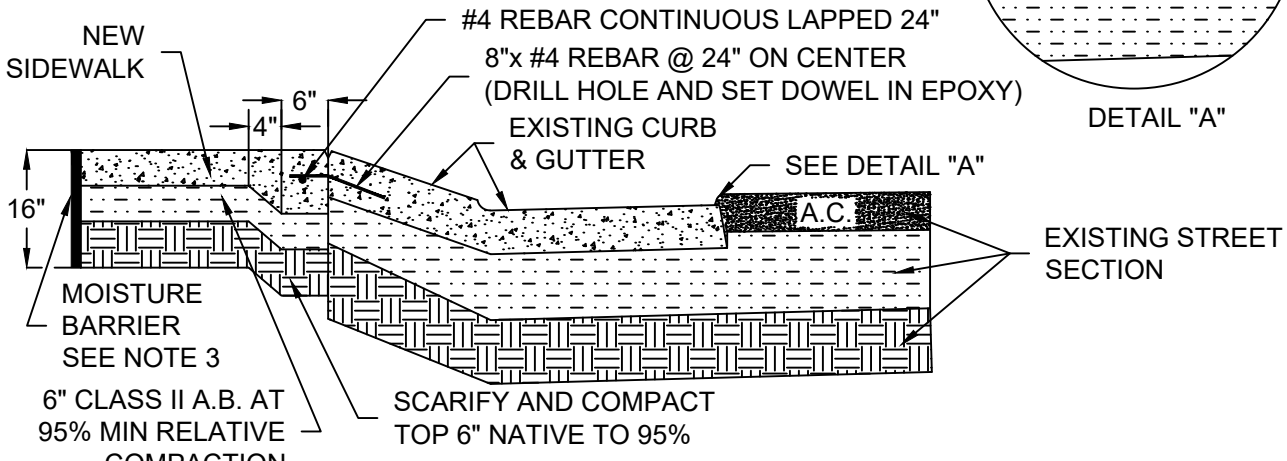
1. USE CITY STANDARD CONCRETE.
2. SCORE LINES SHALL BE $\frac{1}{2}$" DEEP AND FORM A SQUARE.
3. WEAKENED PLANE JOINTS SHALL BE $1\frac{1}{4}$" DEEP AND INSTALLED AT 12' MAX INTERVALS TO MATCH SCORE LINES.
4. PLACE EXPANSION JOINTS AT CURB RETURNS, TRANSITIONS TO DRAIN INLETS, AND DRIVEWAYS AND 60' INTERVALS.
5. APPLY "FINE BROOM" FINISH TO SIDEWALK PERPENDICULAR TO STREET; APPLY "FINE BROOM" FINISH TO CURB AND GUTTER PARALLEL TO STREET.
6. NEW SIDEWALK, CURB AND GUTTER SHALL BE MONOLITHICALLY POURED.
7. EXISTING CONCRETE TO BE MATCHED SHALL BE DRILLED AND EPOXY DOWELED WITH 8" LONG, #4 REBAR AT 12" MAXIMUM ON CENTER.
8. ALL CORNERS SHALL HAVE $\frac{1}{2}$" TOOLED RADIUS.
9. FOR CURB TYPE TRANSITION DETAILS AND WEAKENED PLANE JOINT DETAIL SEE DETAIL 3050.
10. FOR CURB AND GUTTER TRANSITION DETAILS AT CURB INLETS, SEE DETAIL 4090 AND 4100.
11. 6"x6"x10 GAUGE WIRE REINFORCEMENT REQUIRED FOR ALL SIDEWALKS.
12. A MAXIMUM SLOPE GRADE OF 5:1 WILL BE ALLOWED AT STREET LANDSCAPING APPLICATIONS WHERE APPROVED BY THE CITY ENGINEER.
13. SIDEWALK REPLACEMENT IN EXISTING NEIGHBORHOOD SHALL BE SCORED TO MATCH EXISTING, SUBJECT TO THE APPROVAL OF THE CITY ENGINEER.
14. ALL UTILITY CROSSINGS SHALL BE MARKED ON CONCRETE DURING POUR.

3030	SEPARATED SIDEWALK, CURB & GUTTER	APPROVED: MARCH 2022	CITY OF DIXON ENGINEERING STANDARD DETAIL

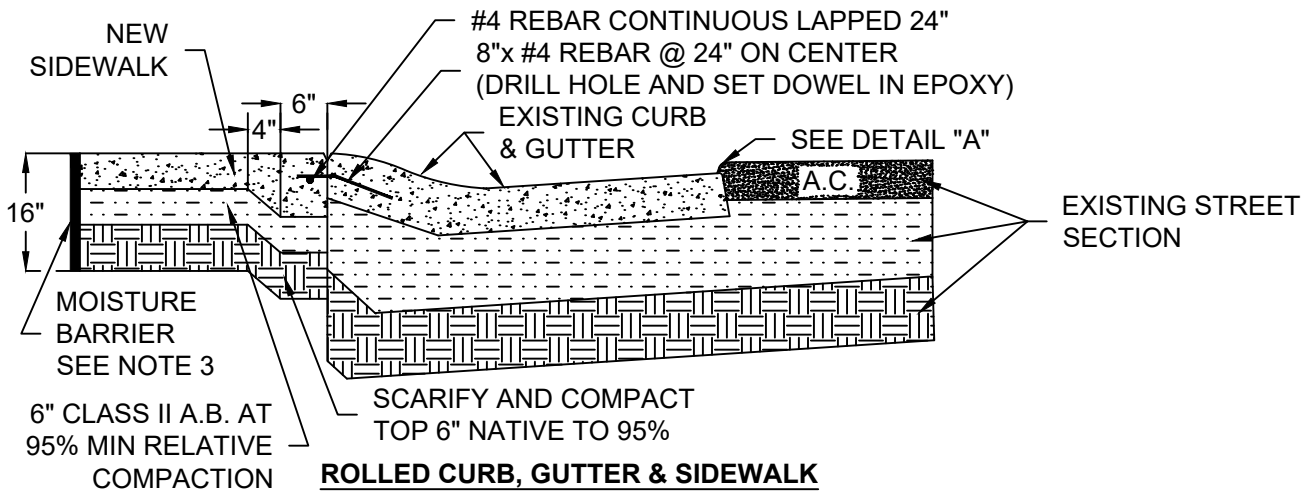


VERTICAL CURB, GUTTER & SIDEWALK

DETAIL "A"



LOW-PROFILE CURB, GUTTER & SIDEWALK

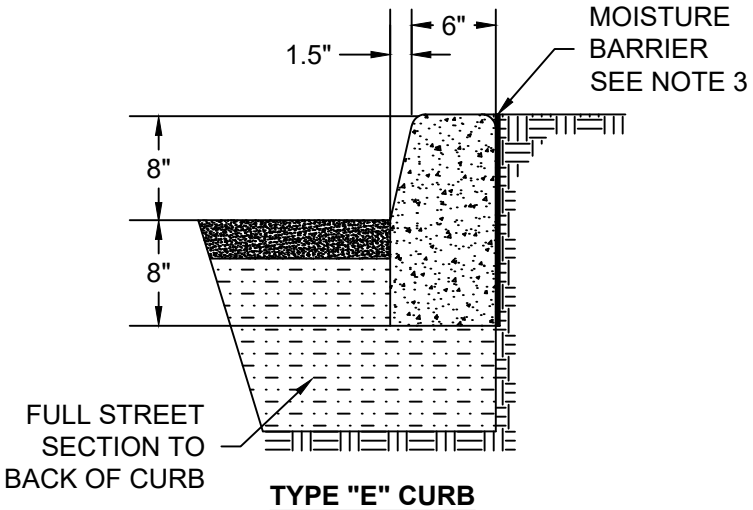


ROLLED CURB, GUTTER & SIDEWALK

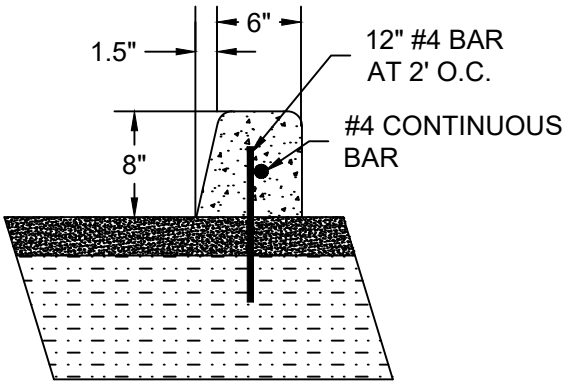
NOTES:

1. SEE DETAILS 3000, 3010 AND 3020 FOR SIDEWALK CONSTRUCTION DETAILS.
2. ALL CORNERS SHALL HAVE $\frac{1}{2}$" TOOLED RADIUS.
3. FOR MORE INFORMATION SEE SPECIFICATIONS.

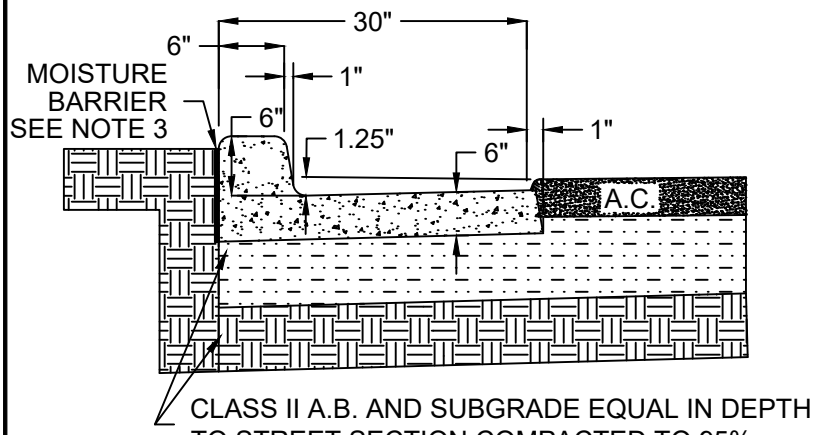
CITY OF DIXON ENGINEERING STANDARD DETAIL	REGISTERED PROFESSIONAL ENGINEER DEBORAH A. BARR C054 CIVIL STATE OF CALIFORNIA APPROVED: MARCH 2022	SIDEWALK STAGED CONSTRUCTION	3040



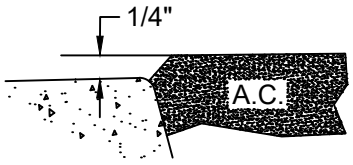
TYPE "E" CURB



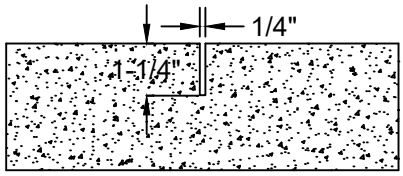
TYPE "F" CURB



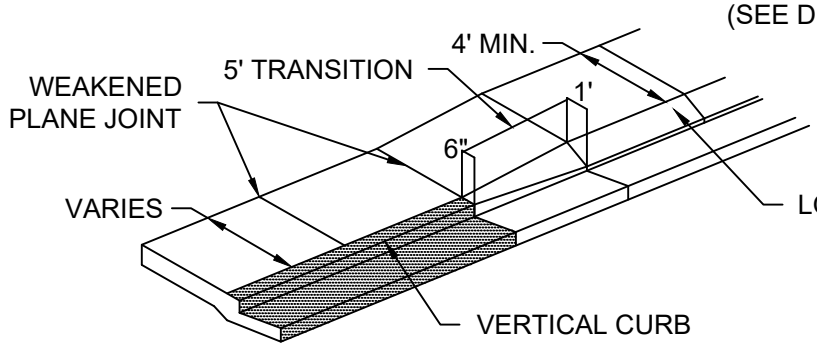
VERTICAL CURB & GUTTER



GUTTER LIP DETAIL



WEAKENED PLANE JOINT
12' MAXIMUM SPACING
(SEE DETAIL 3000 - 3030, NOTE 3)



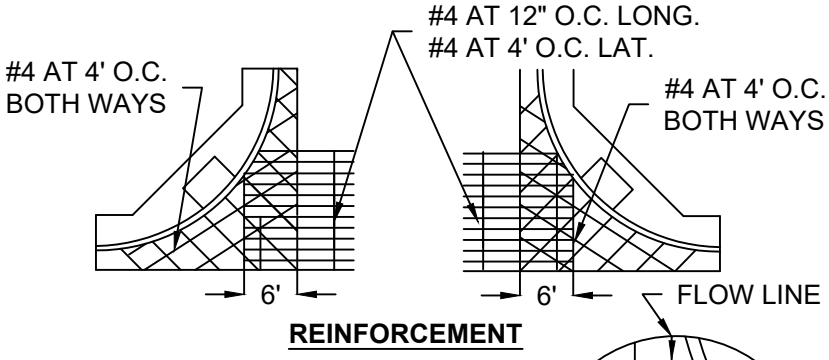
LOW-PROFILE TO VERTICAL CURB & GUTTER TRANSITION DETAIL

NOTES:

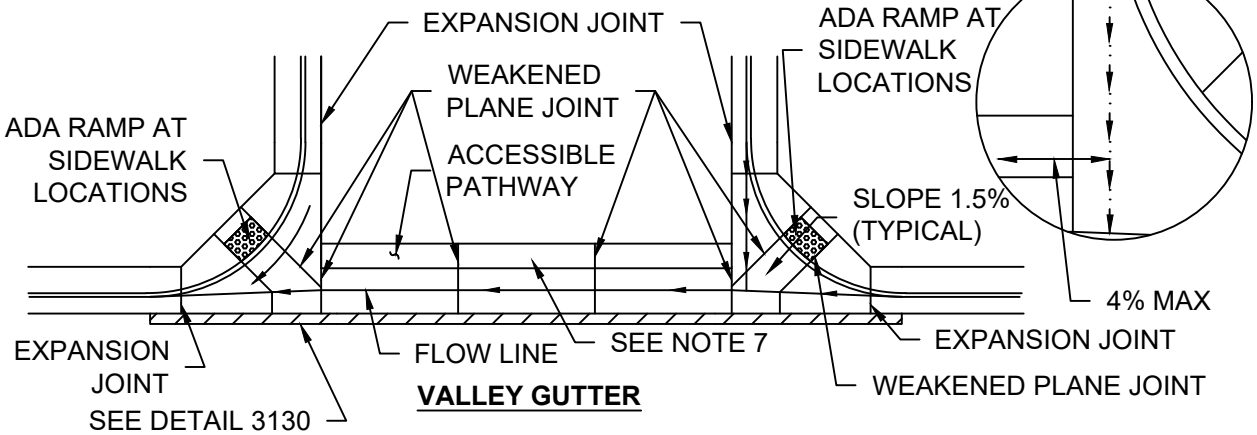
1. SEE DETAILS 3000, 3010 AND 3020 FOR SIDEWALK CONSTRUCTION DETAILS.
2. ALL CORNERS SHALL HAVE $\frac{1}{2}$" TOOLED RADIUS.
3. FOR MORE INFORMATION SEE SPECIFICATIONS.

3050	CURB, GUTTER & SIDEWALK DETAILS	APPROVED: MARCH 2022	CITY OF DIXON ENGINEERING STANDARD DETAIL

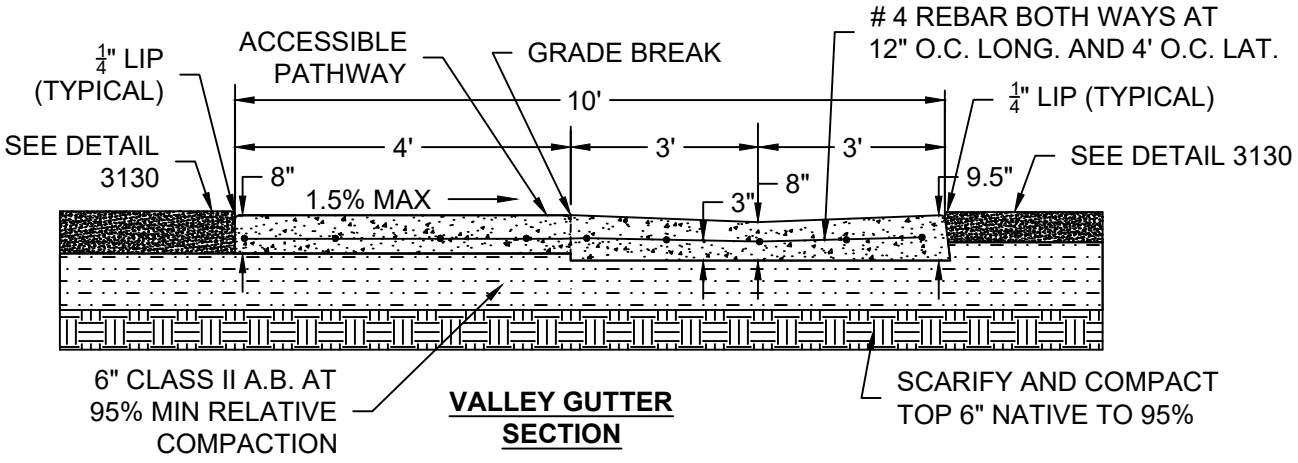
RADIUS TABLE	
TYPE	MINIMUM FACE OF CURB RADIUS
INDUSTRIAL	30' MIN
COMMERCIAL	20' MIN
RESIDENTIAL APARTMENTS	20' MIN



REINFORCEMENT



VALLEY GUTTER

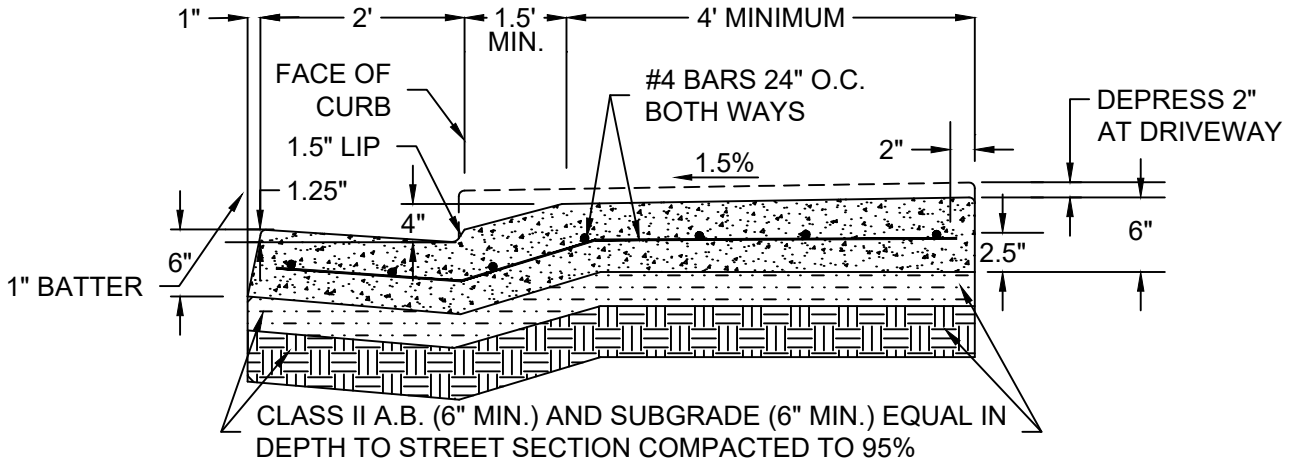


VALLEY GUTTER SECTION

NOTES:

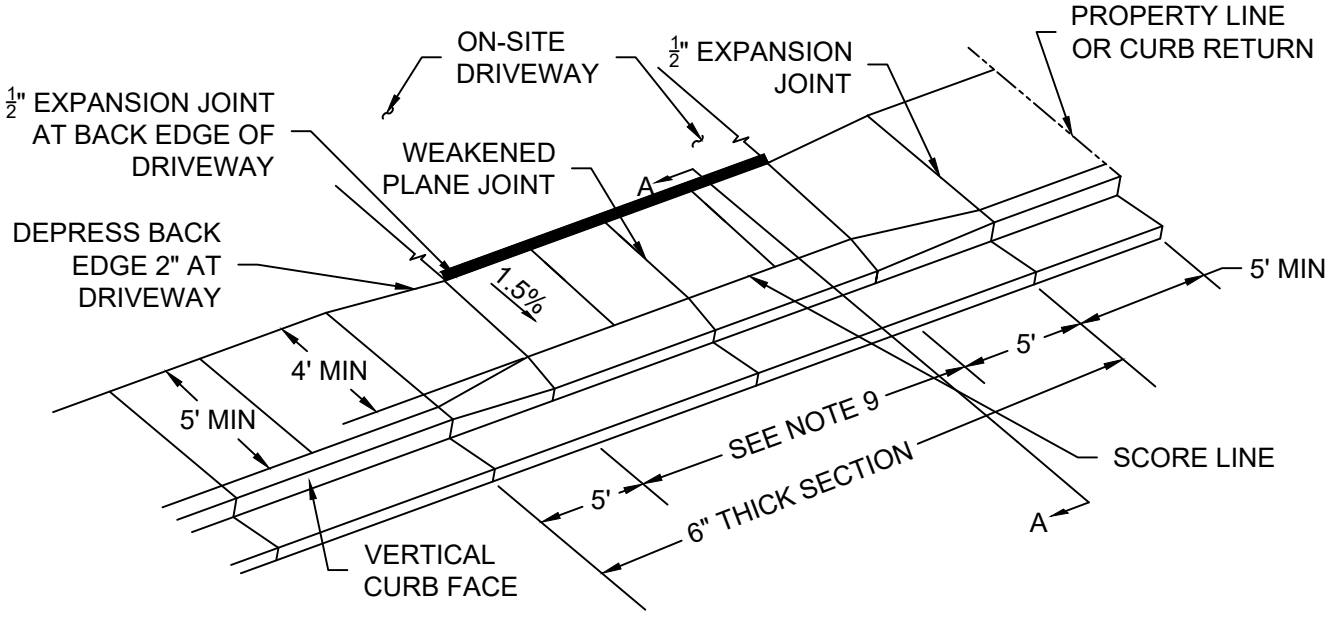
1. MINIMUM LONGITUDINAL SLOPE SHALL BE 0.5%.
2. APPLY "FINE BROOM" FINISH TO SIDEWALK PERPENDICULAR TO STREET; APPLY "FINE BROOM" FINISH TO CURB AND GUTTER PARALLEL TO STREET.
3. ALL CORNERS SHALL HAVE A ½" TOOLED RADIUS.
4. FULL STREET SECTION OR 6", WHICHEVER IS GREATER.
5. USE CITY STANDARD CONCRETE.
6. MINIMUM CONCRETE GUTTER PAN APRON SECTION IS 8".
7. ACCESSIBLE PATHWAY SHALL BE 4' WIDE WITH A MAX. OF 1.5% CROSS SLOPE IN ALL DIRECTIONS AND WITHOUT ABRUPT GRADE CHANGE AT GUTTER FLOW LINE.

CITY OF DIXON ENGINEERING STANDARD DETAIL	APPROVED: MARCH 2022	VALLEY GUTTERS	3060



DRIVEWAY SECTION A-A

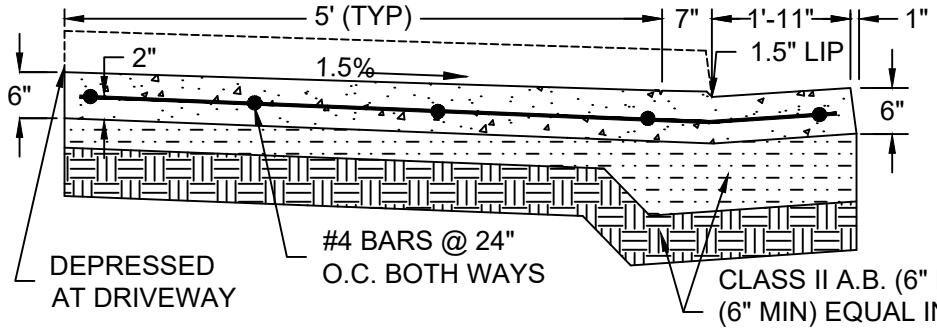
(SECTION BETWEEN EXPANSION JOINTS ON EACH SIDE OF DRIVEWAY)



NOTES:

1. USE CITY STANDARD CONCRETE.
2. SCORE LINES SHALL BE ½" DEEP AND FORM A SQUARE.
3. WEAKENED PLANE JOINTS SHALL BE 1¼" DEEP AND INSTALLED AT 12' MAX INTERVALS TO MATCH SCORE LINES.
4. APPLY "FINE BROOM" FINISH TO SIDEWALK PERPENDICULAR TO STREET; APPLY "FINE BROOM" FINISH TO CURB AND GUTTER PARALLEL TO STREET.
5. NEW SIDEWALK, CURB AND GUTTER SHALL BE MONOLITHICALLY POURED.
6. EXISTING CONCRETE TO BE MATCHED SHALL BE DRILLED AND EPOXY DOWELED WITH 8" LONG, #4 REBAR AT 12" MAXIMUM ON CENTER.
7. ADJACENT ASPHALT MUST BE REPLACED PER DETAIL 3130.
8. BACK EDGE OF DRIVEWAY SHALL BE DEPRESSED 2.5" BELOW SIDEWALK.
9. MINIMUM RESIDENTIAL DRIVEWAY WIDTH SHALL BE A MINIMUM OF 16' AND MAXIMUM OF 30'.

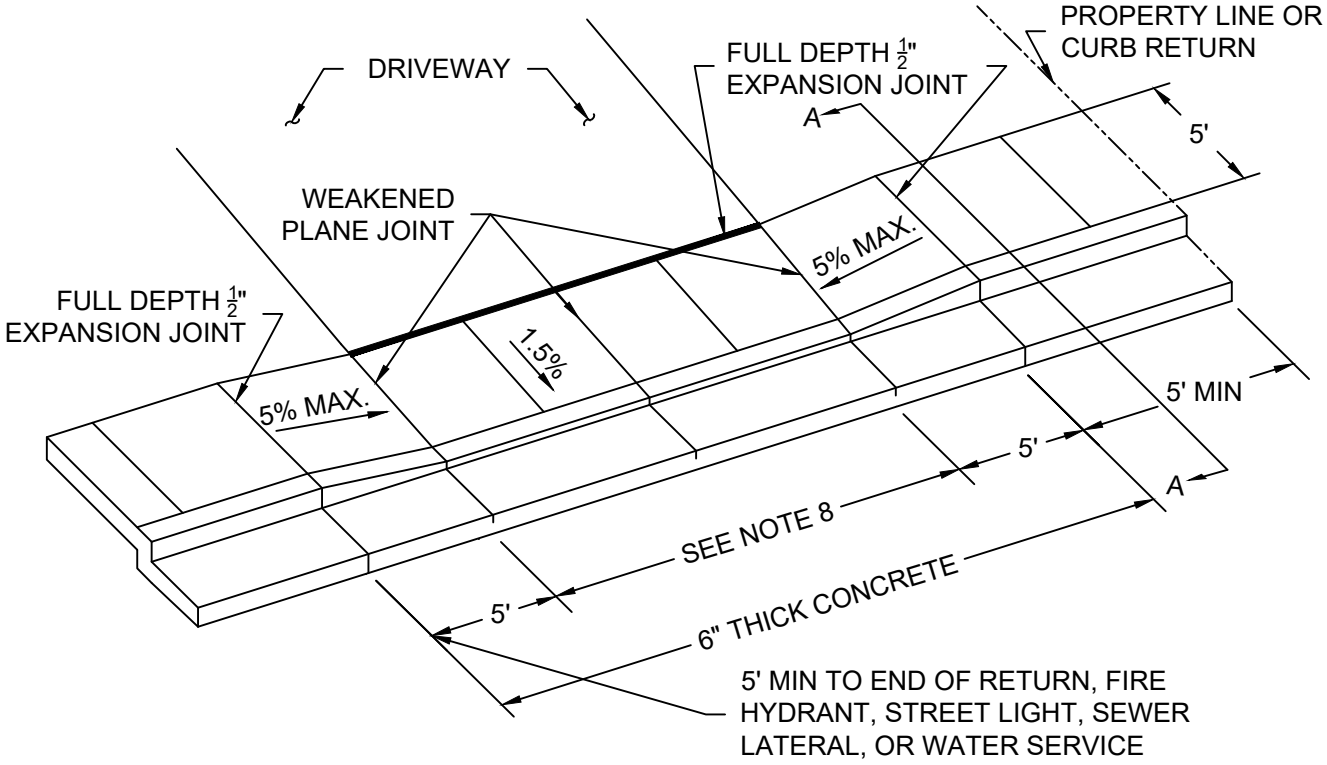
3070	RESIDENTIAL DRIVEWAY VERTICAL CURB	REGISTERED PROFESSIONAL ENGINEER DEBORAH [illegible] 28544 CIVIL STATE OF CALIFORNIA APPROVED: MARCH 2022	CITY OF DIXON ENGINEERING STANDARD DETAIL



SPECIAL NOTE:
DRIVEWAY TO BE USED ONLY BY APPROVAL OF THE CITY ENGINEER

DRIVEWAY SECTION

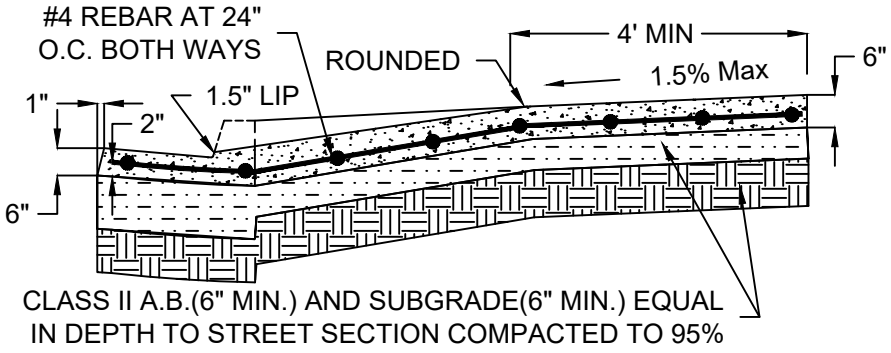
(SECTION BETWEEN EXPANSION JOINTS ON EACH SIDE OF DRIVEWAY)



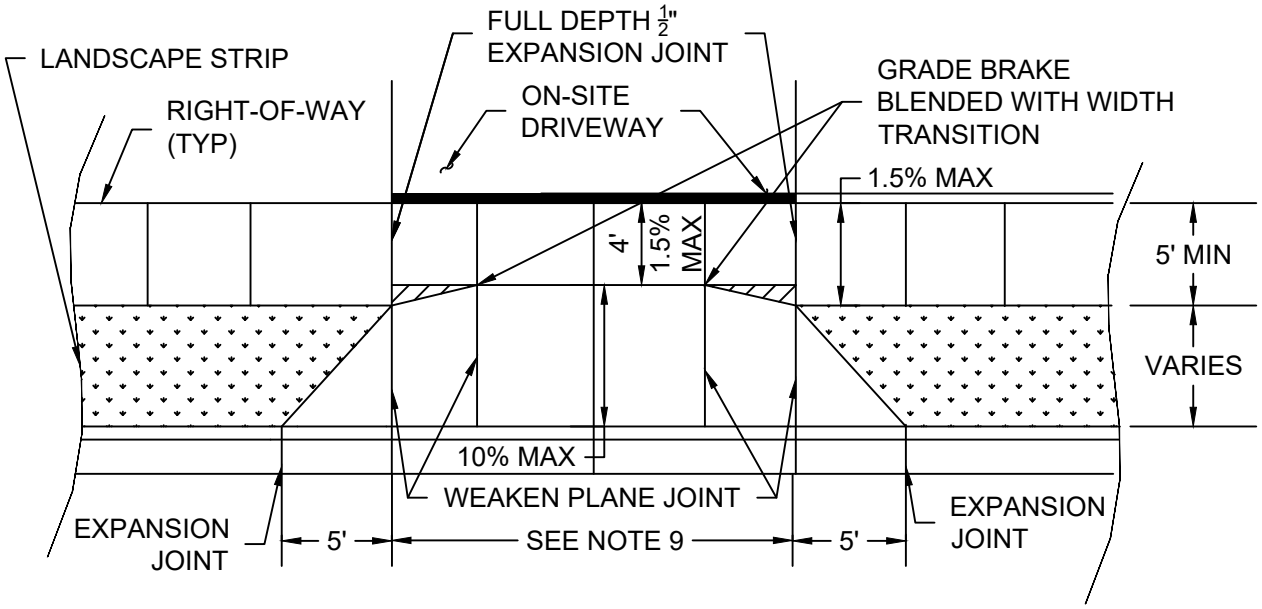
NOTES:

1. USE CITY STANDARD CONCRETE.
2. SCORE LINES SHALL BE ½" DEEP AND FORM A SQUARE.
3. WEAKENED PLANE JOINTS SHALL BE 1¼" DEEP AND INSTALLED AT 12' MAX INTERVALS TO MATCH SCORE LINES.
4. APPLY "FINE BROOM" FINISH TO SIDEWALK PERPENDICULAR TO STREET; APPLY "FINE BROOM" FINISH TO CURB AND GUTTER PARALLEL TO STREET.
5. NEW SIDEWALK, CURB AND GUTTER SHALL BE MONOLITHICALLY POURED.
6. EXISTING CONCRETE TO BE MATCHED SHALL BE DRILLED AND EPOXY DOWELED WITH 8" LONG, #4 REBAR AT 12" MAXIMUM ON CENTER, PER DETAIL 3000.
7. ALL CORNERS SHALL HAVE ½" TOOLED RADIUS.
8. DRIVEWAY CUT SHALL ALIGN WITH AND BE OF EQUAL WIDTH AS THE APPROACH TO THE GARAGE OR OTHER APPROVED PARKING AREA. MINIMUM WIDTH OF 16' AND MAXIMUM OF 30'.
9. ADJACENT ASPHALT MUST BE REPLACED PER DETAIL 3130.

CITY OF DIXON ENGINEERING STANDARD DETAIL	REGISTERED PROFESSIONAL ENGINEER DEBORAH A. BARR C64 CIVIL STATE OF CALIFORNIA APPROVED: MARCH 2022	RESIDENTIAL DRIVEWAY CONVENTIONAL VERTICAL CURB	3080



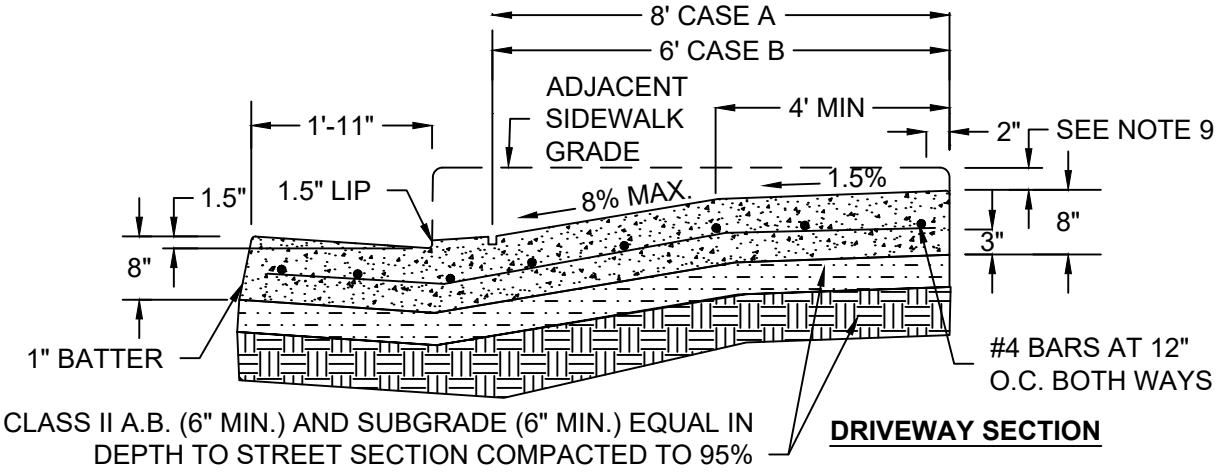
DRIVEWAY SECTION



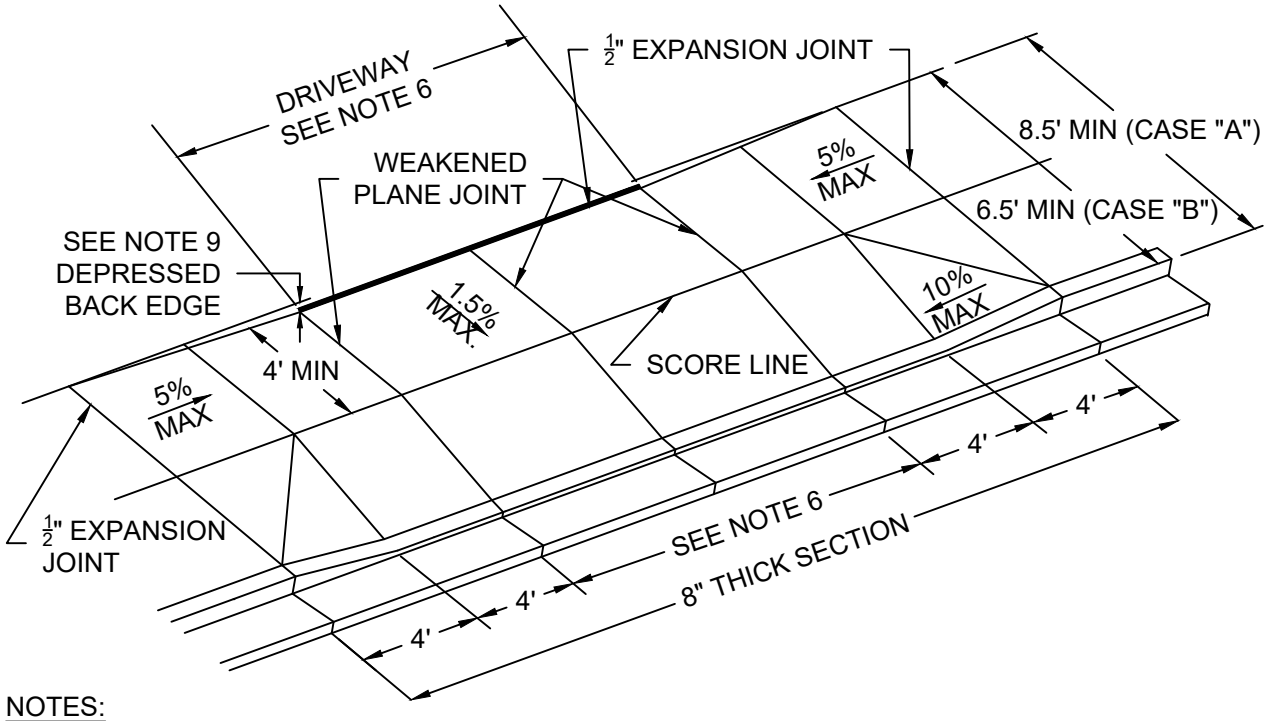
NOTES:

1. USE CITY STANDARD CONCRETE.
2. SCORE LINES SHALL BE ½" DEEP AND FORM A SQUARE.
3. WEAKENED PLANE JOINTS SHALL BE 1¼" DEEP AND INSTALLED AT 12' MAX INTERVALS TO MATCH SCORE LINES.
4. PLACE EXPANSION JOINTS AT CURB RETURNS, TRANSITIONS TO DRAIN INLETS, AND DRIVEWAYS AND 60' INTERVALS.
5. APPLY "FINE BROOM" FINISH TO SIDEWALK PERPENDICULAR TO STREET; APPLY "FINE BROOM" FINISH TO CURB AND GUTTER PARALLEL TO STREET.
6. NEW SIDEWALK, CURB AND GUTTER SHALL BE MONOLITHICALLY POURED.
7. EXISTING CONCRETE TO BE MATCHED SHALL BE DRILLED AND EPOXY DOWELED WITH 12" LONG, #4 REBAR AT 12" MAXIMUM ON CENTER, PER DETAIL 3000.
8. ALL CORNERS SHALL HAVE ½" TOOLED RADIUS.
9. DRIVEWAY CUT SHALL ALIGN WITH AND BE OF EQUAL WIDTH AS THE APPROACH TO THE GARAGE OR OTHER APPROVED PARKING AREA. MINIMUM WIDTH OF 16' AND MAXIMUM OF 30'.
10. ADJACENT ASPHALT MUST BE REPLACED PER DETAIL 3130.
11. PER ADA, GENERAL SIDEWALK WIDTH SHALL BE 5'. THE ADA PATH OF TRAVEL CAN BE REDUCED TO 4' AT THE DRIVEWAY.

3090	RESIDENTIAL DRIVEWAY SEPARATED SIDEWALK	REGISTERED PROFESSIONAL ENGINEER DEBORAH [illegible] 28544 CIVIL STATE OF CALIFORNIA APPROVED: MARCH 2022	CITY OF DIXON ENGINEERING STANDARD DETAIL



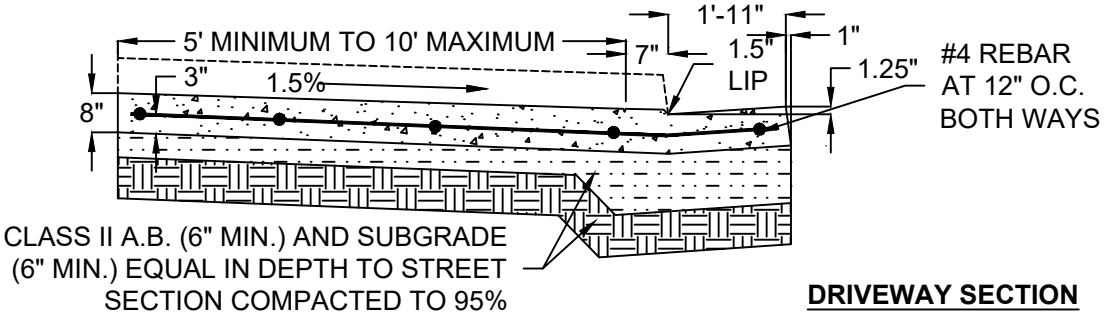
DRIVEWAY SECTION



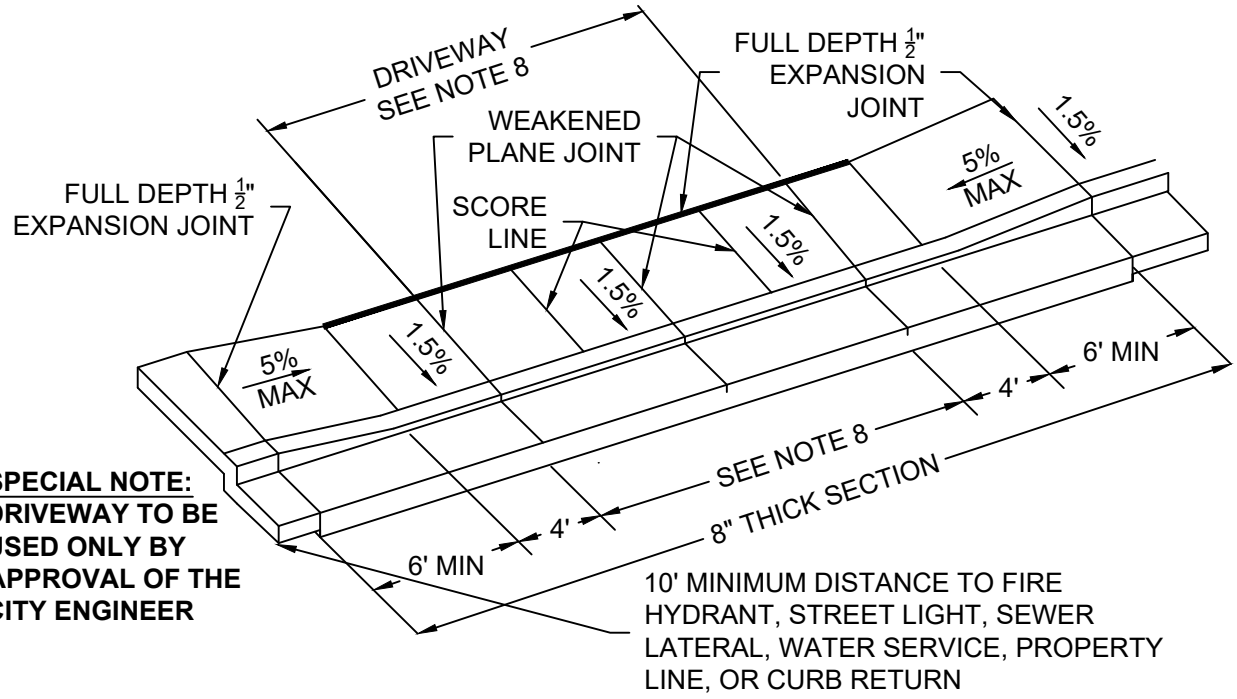
NOTES:

1. USE CITY STANDARD CONCRETE.
2. SCORE LINES SHALL BE ½" DEEP AND FORM A SQUARE.
3. APPLY "FINE BROOM" FINISH TO SIDEWALK PERPENDICULAR TO STREET; APPLY "FINE BROOM" FINISH TO CURB AND GUTTER PARALLEL TO STREET.
4. NEW SIDEWALK, CURB AND GUTTER SHALL BE MONOLITHICALLY POURED.
5. EXISTING CONCRETE TO BE MATCHED SHALL BE DRILLED AND EPOXY DOWELED WITH 12" LONG, #4 REBAR AT 12" MAXIMUM ON CENTER, PER DETAIL 3000.
6. DRIVEWAY CUT SHALL ALIGN WITH AND BE OF EQUAL WIDTH AS THE APPROACH TO THE GARAGE OR OTHER APPROVED PARKING AREA. ONE-WAY DRIVEWAYS SHALL BE BETWEEN 18' TO 24' AND TWO-WAY DRIVEWAYS SHALL BE BETWEEN 30' TO 36'.
7. ADJACENT ASPHALT MUST BE REPLACED PER DETAIL 3130.
8. THIS DETAIL IS TO BE USED AT ALL COMMERCIAL LOCATIONS WITH SIDEWALK. DETAIL 3120 SHALL BE USED AT INDUSTRIAL LOCATIONS WITHOUT SIDEWALK.
9. DEPRESSION AT BACK EDGE OF DRIVEWAY FOR CASE "A" IS 1.5" AND FOR CASE "B" IS 3".

CITY OF DIXON ENGINEERING STANDARD DETAIL	REGISTERED PROFESSIONAL ENGINEER DEBORAH A. BARR 2654 CIVIL STATE OF CALIFORNIA APPROVED: MARCH 2022	COMMERCIAL DRIVEWAY	3100



DRIVEWAY SECTION

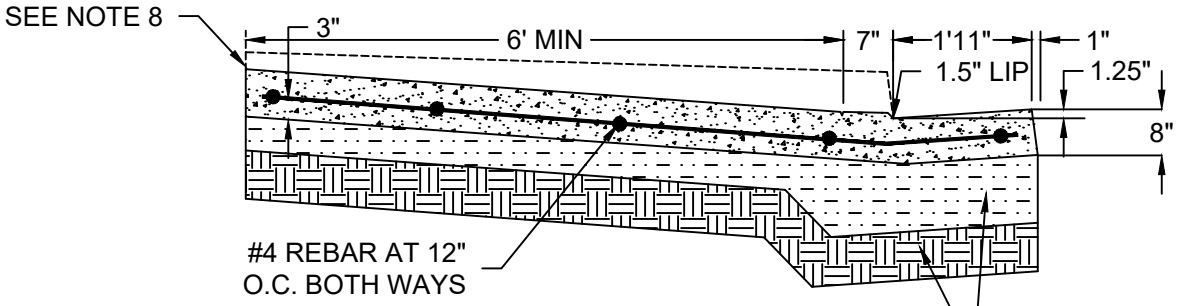


SPECIAL NOTE:
DRIVEWAY TO BE USED ONLY BY APPROVAL OF THE CITY ENGINEER

NOTES:

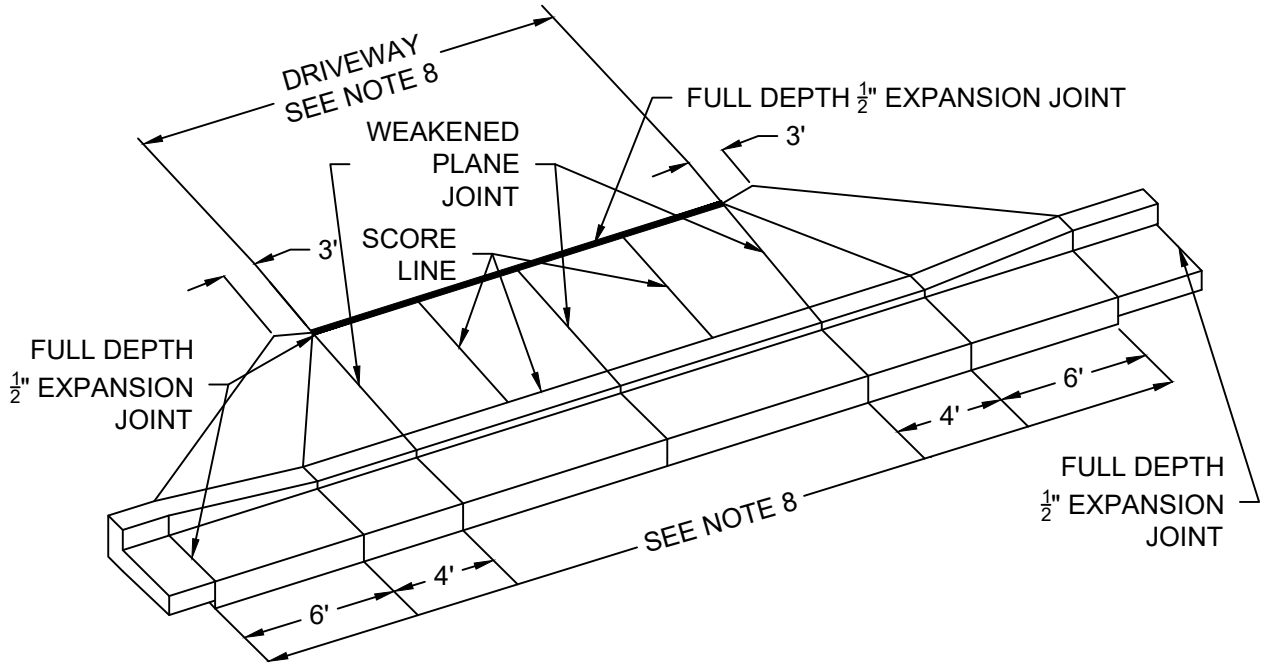
1. USE CITY STANDARD CONCRETE.
2. SCORE LINES SHALL BE ½" DEEP AND FORM A SQUARE.
3. WEAKENED PLANE JOINTS SHALL BE 1¼" DEEP AND INSTALLED AT 12' MAX INTERVALS TO MATCH SCORE LINES.
4. APPLY "FINE BROOM" FINISH TO SIDEWALK PERPENDICULAR TO STREET; APPLY "FINE BROOM" FINISH TO CURB AND GUTTER PARALLEL TO STREET.
5. NEW DRIVEWAY, SIDEWALK, CURB AND GUTTER SHALL BE MONOLITHICALLY POURED.
6. EXISTING CONCRETE TO BE MATCHED SHALL BE DRILLED AND EPOXY DOWELED WITH 12" LONG, #4 REBAR AT 12" MAXIMUM ON CENTER, PER DETAIL 3000.
7. ALL CORNERS SHALL HAVE ½" TOOLED RADIUS.
8. DRIVEWAY CUT SHALL ALIGN WITH AND BE OF EQUAL WIDTH AS THE APPROACH TO THE GARAGE OR OTHER APPROVED PARKING AREA. ONE-WAY WIDTH SHALL BE 24' MINIMUM AND TWO WAY WIDTH SHALL BE 36' MINIMUM.
9. ADJACENT ASPHALT MUST BE REPLACED PER DETAIL 3130.
10. THIS DETAIL IS TO BE USED AT ALL COMMERCIAL LOCATIONS AND AT INDUSTRIAL LOCATIONS WITH SIDEWALK. DETAIL 3120 IS TO BE USED AT INDUSTRIAL LOCATIONS WITHOUT SIDEWALK.
11. BACK EDGE OF DRIVEWAY SHALL BE SET 4" ABOVE FLOW LINE.

3110	COMMERCIAL DRIVEWAY WITH RESTRICTED R/W	APPROVED: MARCH 2022	CITY OF DIXON ENGINEERING STANDARD DETAIL



DRIVEWAY SECTION

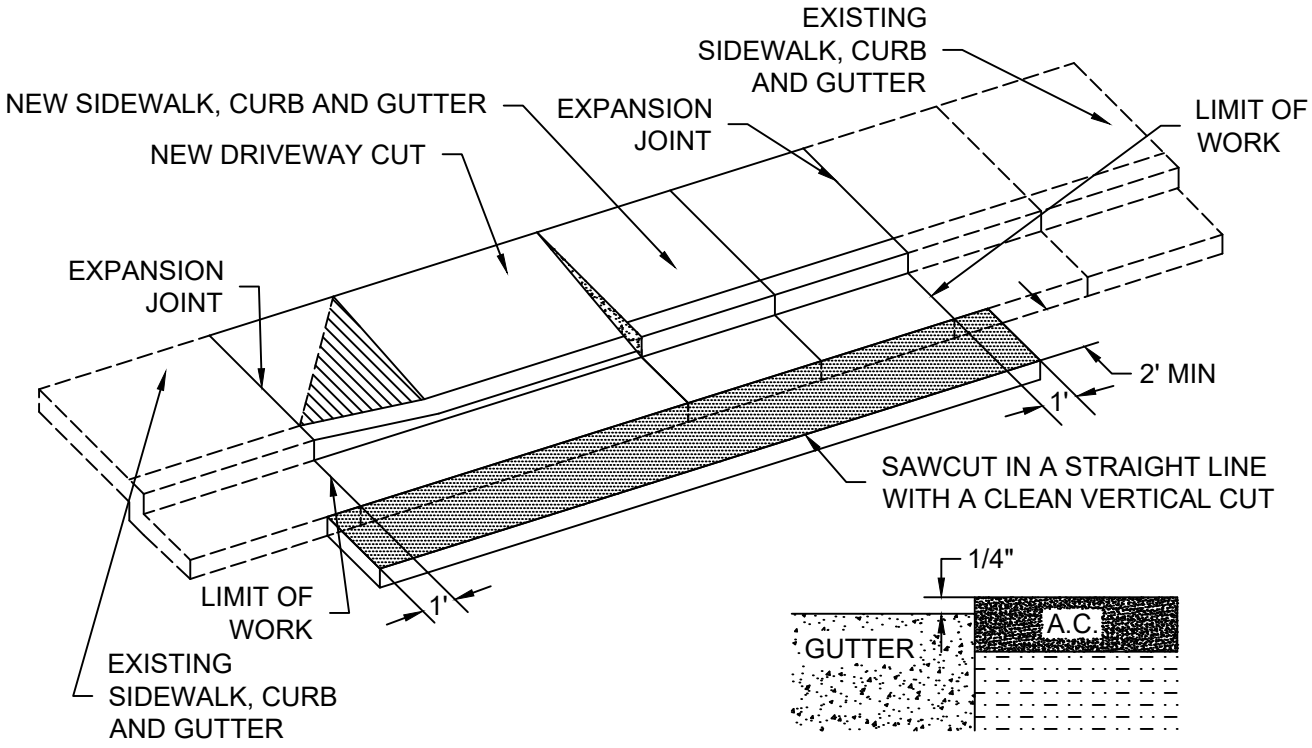
CLASS II A.B. (6" MIN.) AND SUBGRADE (6" MIN.) EQUAL IN DEPTH TO STREET SECTION COMPACTED TO 95%



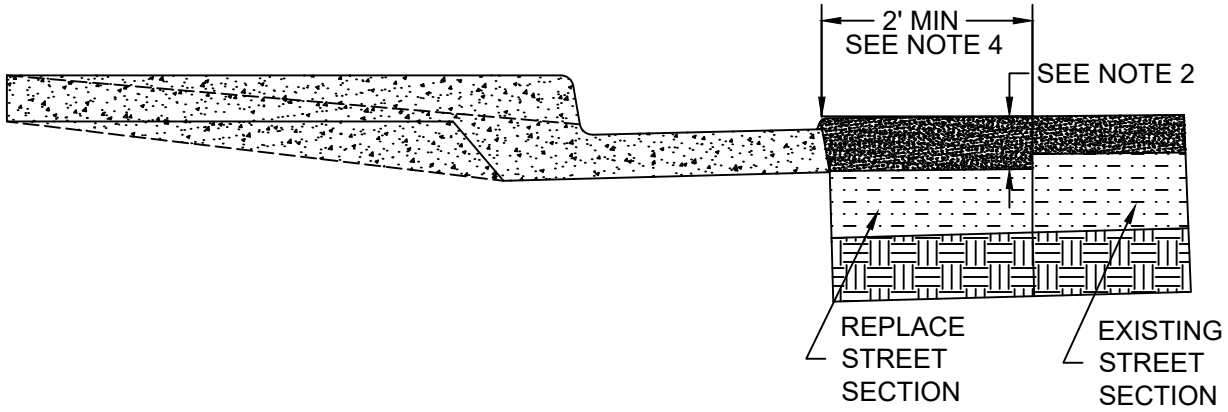
NOTES:

1. USE CITY STANDARD CONCRETE.
2. SCORE LINES SHALL BE ½" DEEP AND FORM A SQUARE.
3. WEAKENED PLANE JOINTS SHALL BE 1¼" DEEP AND INSTALLED AT 12' MAX INTERVALS TO MATCH SCORE LINES.
4. APPLY "FINE BROOM" FINISH TO SIDEWALK PERPENDICULAR TO STREET; APPLY "FINE BROOM" FINISH TO CURB AND GUTTER PARALLEL TO STREET.
5. NEW DRIVEWAY, SIDEWALK, CURB AND GUTTER SHALL BE MONOLITHICALLY POURED.
6. EXISTING CONCRETE TO BE MATCHED SHALL BE DRILLED AND EPOXY DOWELED WITH 12" LONG, #4 REBAR AT 12" MAXIMUM ON CENTER, PER DETAIL 3000.
7. ALL CORNERS SHALL HAVE ½" TOOLED RADIUS.
8. DRIVEWAY CUT SHALL ALIGN WITH AND BE OF EQUAL WIDTH AS THE APPROACH TO THE GARAGE OR OTHER APPROVED PARKING AREA. ONE-WAY WIDTH SHALL BE 24' MINIMUM AND TWO WAY WIDTH SHALL BE 36' MINIMUM.
9. ADJACENT ASPHALT MUST BE REPLACED PER DETAIL 3130.
10. WHERE SIDEWALK EXISTS IN INDUSTRIAL AREA, DETAIL 3100 SHALL BE USED.
11. BACK EDGE OF DRIVEWAY SHALL BE SET 4" ABOVE FLOW LINE.

CITY OF DIXON ENGINEERING STANDARD DETAIL	REGISTERED PROFESSIONAL ENGINEER DEBORAH A. BARR C64 CIVIL STATE OF CALIFORNIA APPROVED: MARCH 2022	INDUSTRIAL DRIVEWAY	3120



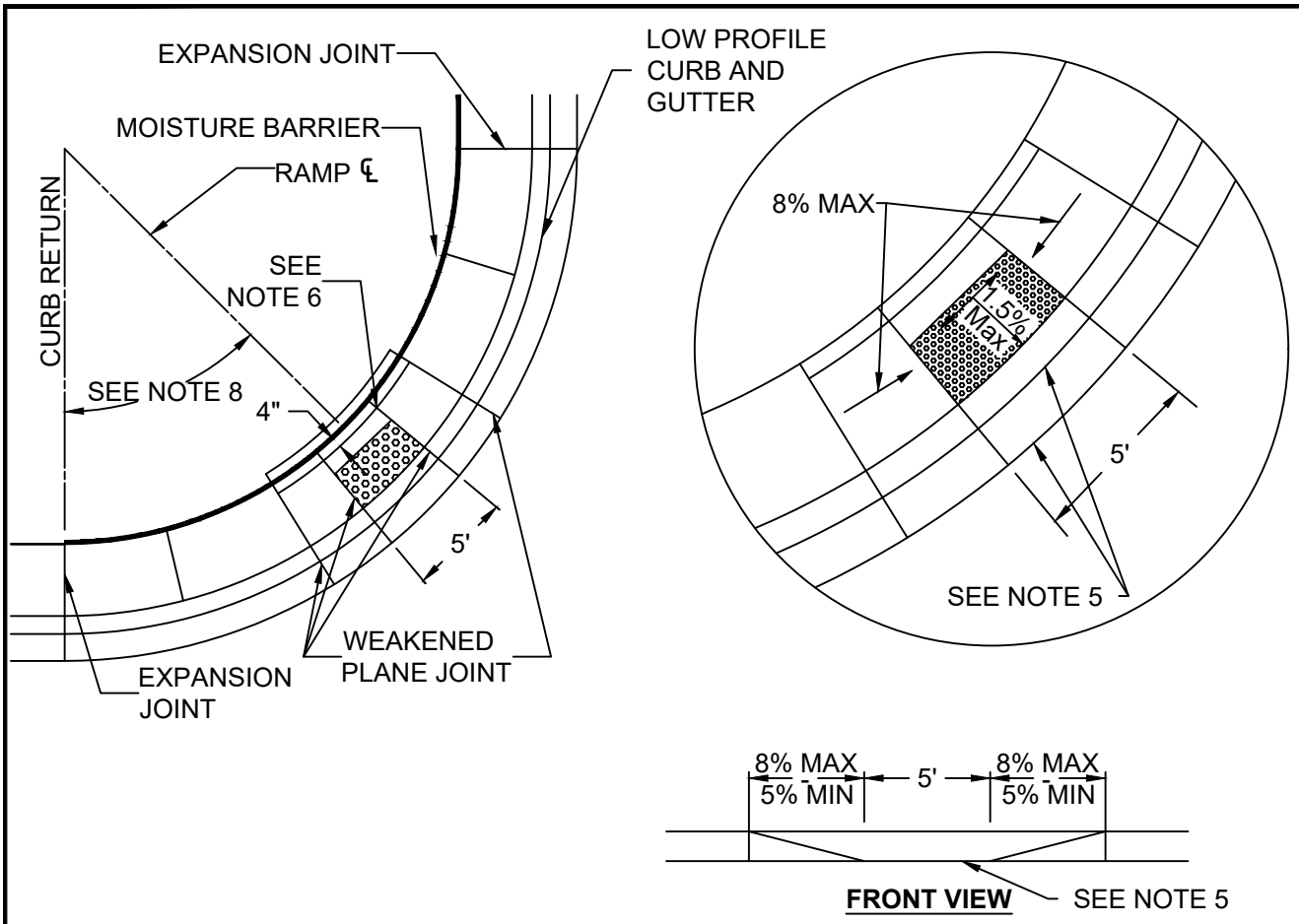
LIP DETAIL



NOTES:

1. TEMPORARY CUTBACK SHALL BE PLACED IMMEDIATELY AFTER BACKFILL AND SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL PERMANENT PAVING IS INSTALLED. PRIOR TO PERMANENT PATCH, EXISTING A.C. SHALL BE SAWCUT TO A NEAT EDGE AND SHALL BE TACK COATED PRIOR TO PAVING.
2. PERMANENT A.C. PAVING SHALL BE 1" GREATER IN THICKNESS THAN EXISTING PAVING WITH A MINIMUM THICKNESS OF 4".
3. REMOVE TO EXISTING SCORE MARK, WEAKENED PLANE JOINT OR EXPANSION JOINT.
4. ADDITIONAL REPLACEMENT MAY BE REQUIRED DUE TO MORE EXTENSIVELY DAMAGED A.C.
5. EXISTING CONCRETE TO BE MATCHED SHALL BE DRILLED AND EPOXY DOWELED WITH 8" LONG, #4 REBAR AT 12" MAXIMUM ON CENTER.

3130	STREET REPLACEMENT AT DRIVEWAY OR CURB AND GUTTER	APPROVED: MARCH 2022	CITY OF DIXON ENGINEERING STANDARD DETAIL

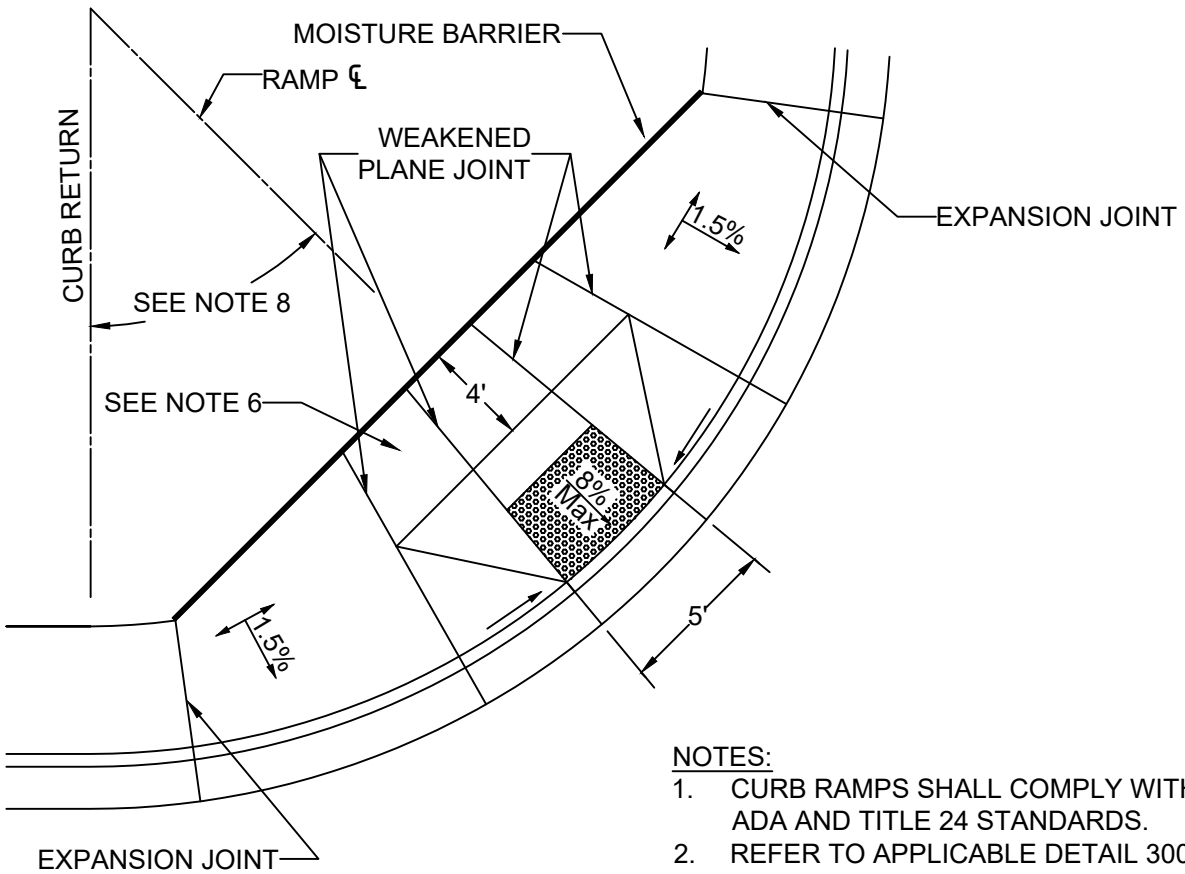


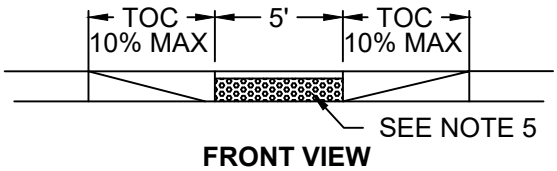
NOTES:

1. CURB RAMPS SHALL COMPLY WITH THE ADA AND TITLE 24 STANDARDS.
2. REFER TO APPLICABLE DETAIL 3000, 3010, OR 3020 FOR CURB, GUTTER AND SIDEWALK DETAILS AND NOTES.
3. REFER TO DS 3-14 FOR RAMP LOCATION.
4. THE SURFACE OF THE RAMP AND FLARES SHALL HAVE A TRANSVERSED BROOMED SURFACE ROUGHER THAN THE SURROUNDING SIDEWALK.
5. TRANSITION FROM RAMP TO GUTTER SHALL BE FLUSH. FROM GUTTER FLOWLINE TO 4' BEYOND LIP SHALL BE A MAXIMUM OF 5%.
6. RETAINING CURB SHALL BE INSTALLED BEHIND THE SIDEWALK, EXCEPT WHERE PROHIBITED BY RIGHT-OF-WAY OR GRADING RESTRAINTS.
7. CURB RAMPS SHALL HAVE DETECTABLE WARNING SURFACE THAT EXTENDS THE FULL WIDTH OF THE RAMP AND A DEPTH OF 3'. THE EDGE OF THE DETECTABLE WARNING SURFACE NEAREST THE STREET SHALL BE BETWEEN 6" AND 8" FROM THE GUTTER FLOWLINE; REFER TO CS 15-02.
8. CENTERLINE OF RAMP TO BE VERIFIED BY CITY PRIOR TO PLACEMENT OF FORMS.
9. USE CITY STANDARD CONCRETE.

SPECIAL NOTE:
THIS RAMP TO BE USED ONLY BY APPROVAL OF THE CITY ENGINEER

CITY OF DIXON ENGINEERING STANDARD DETAIL	APPROVED: MARCH 2022	CURB RAMP (TYPE 1) RESIDENTIAL STREET	3140



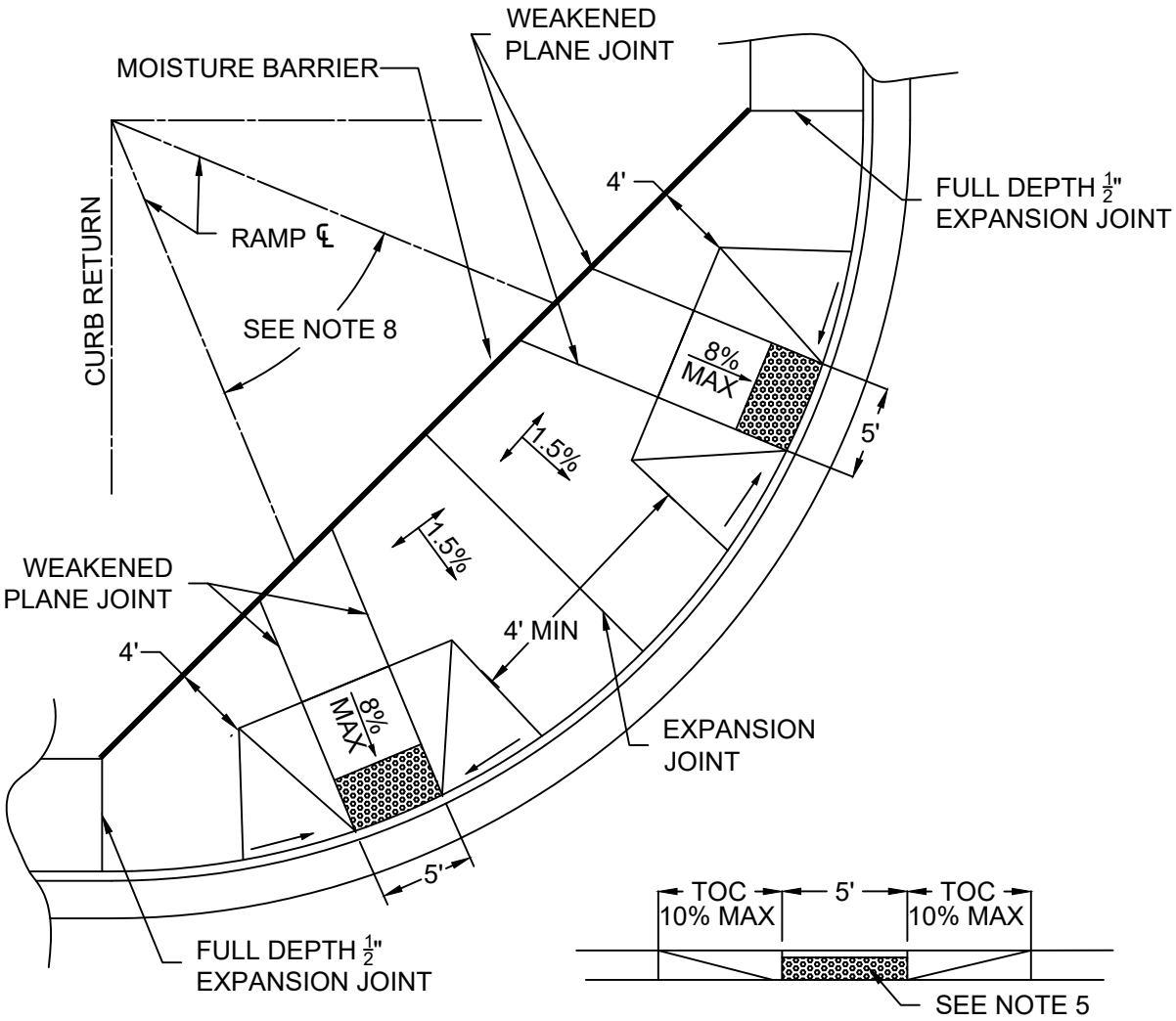


FRONT VIEW

NOTES:

1. CURB RAMPS SHALL COMPLY WITH THE ADA AND TITLE 24 STANDARDS.
2. REFER TO APPLICABLE DETAIL 3000, 3010, OR 3020 FOR CURB, GUTTER AND SIDEWALK DETAILS AND NOTES.
3. REFER TO DS 3-14 FOR RAMP LOCATION.
4. THE SURFACE OF THE RAMP AND FLARES SHALL HAVE A TRANSVERSED BROOMED SURFACE ROUGHER THAN THE SURROUNDING SIDEWALK.
5. TRANSITION FROM RAMP TO GUTTER SHALL BE FLUSH. FROM GUTTER FLOWLINE TO 4' BEYOND LIP SHALL BE A MAXIMUM OF 5%.
6. RAMP LANDING SHALL SLOPE 1.5% FROM BACK EDGE OF WALK TOWARD GUTTER.
7. CURB RAMPS SHALL HAVE DETECTABLE WARNING SURFACE THAT EXTENDS THE FULL WIDTH OF THE RAMP AND A DEPTH OF 3'. THE EDGE OF THE DETECTABLE WARNING SURFACE NEAREST THE STREET SHALL BE BETWEEN 6" AND 8" FROM THE GUTTER FLOWLINE; REFER TO CS 15-02.
8. CENTERLINE OF RAMP TO BE VERIFIED BY CITY PRIOR TO PLACEMENT OF FORMS.
9. USE CITY STANDARD CONCRETE.

3150	CURB RAMP (TYPE 2) RESIDENTIAL AND COLLECTOR STREET	APPROVED: MARCH 2022	CITY OF DIXON ENGINEERING STANDARD DETAIL

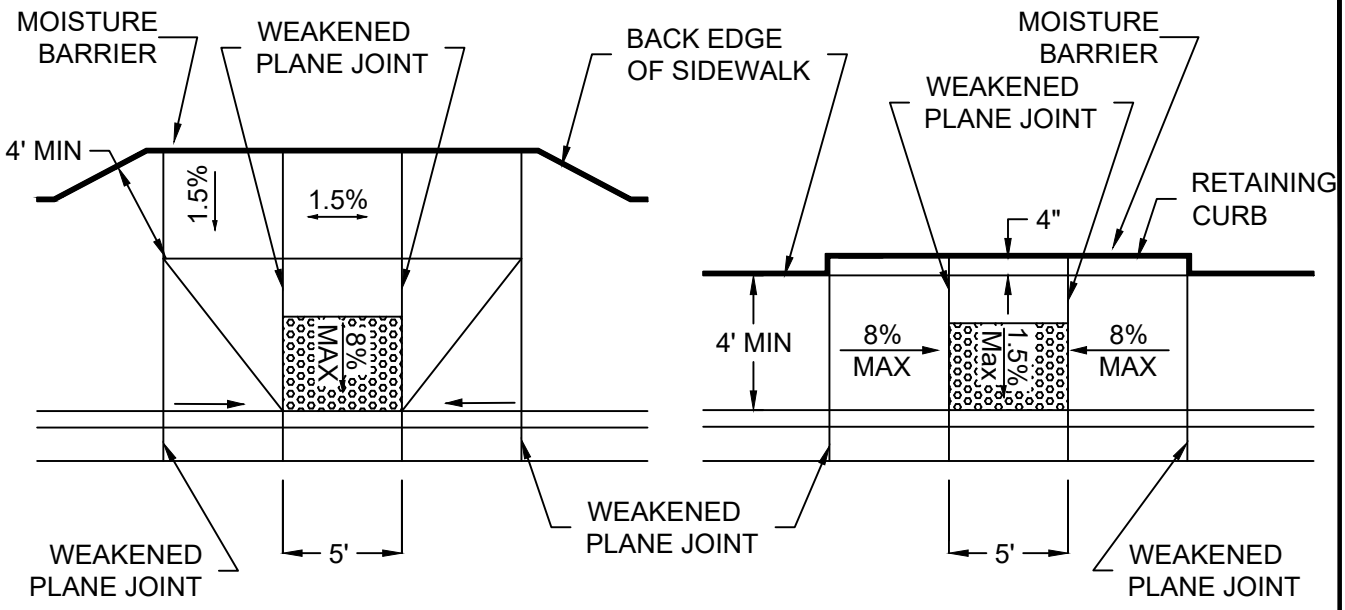


FRONT VIEW

NOTES:

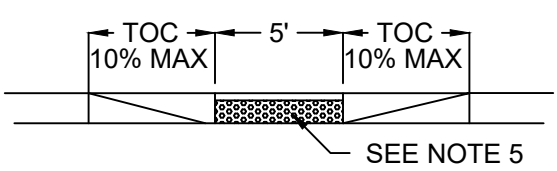
1. CURB RAMPS SHALL COMPLY WITH THE ADA AND TITLE 24 STANDARDS.
2. REFER TO APPLICABLE DETAIL 3000, 3010, OR 3020 FOR CURB, GUTTER AND SIDEWALK DETAILS AND NOTES.
3. REFER TO DS 3-14 FOR RAMP LOCATION.
4. THE SURFACE OF THE RAMP AND FLARES SHALL HAVE A TRANSVERSED BROOMED SURFACE ROUGHER THAN THE SURROUNDING SIDEWALK.
5. TRANSITION FROM RAMP TO GUTTER SHALL BE FLUSH. FROM GUTTER FLOWLINE TO 4' BEYOND LIP SHALL BE A MAXIMUM OF 5%.
6. RAMP LANDING SHALL SLOPE 1.5% FROM BACK EDGE OF WALK TOWARD GUTTER.
7. CURB RAMPS SHALL HAVE DETECTABLE WARNING SURFACE THAT EXTENDS THE FULL WIDTH OF THE RAMP AND A DEPTH OF 3'. THE EDGE OF THE DETECTABLE WARNING SURFACE NEAREST THE STREET SHALL BE BETWEEN 6" AND 8" FROM THE GUTTER FLOWLINE; REFER TO CS 15-02.
8. CENTERLINE OF RAMP TO BE VERIFIED BY CITY PRIOR TO PLACEMENT OF FORMS.
9. USE CITY STANDARD CONCRETE.
10. THE MINIMUM INTERSECTION RADII AT THE CURB FACE OF A MAJOR COLLECTOR IS 40' AND 50' FOR AN ARTERIAL.

CITY OF DIXON ENGINEERING STANDARD DETAIL	REGISTERED PROFESSIONAL ENGINEER DEBORAH A. BARR C 65441 CIVIL STATE OF CALIFORNIA APPROVED: MARCH 2022	CURB RAMP (TYPE 3) ARTERIAL AND COLLECTOR STREET	3160

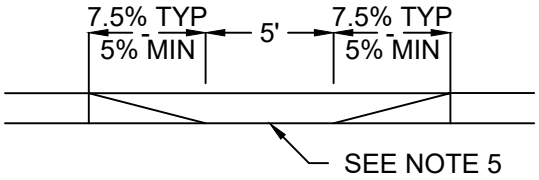


TYPE 4

TYPE 5



FRONT VIEW

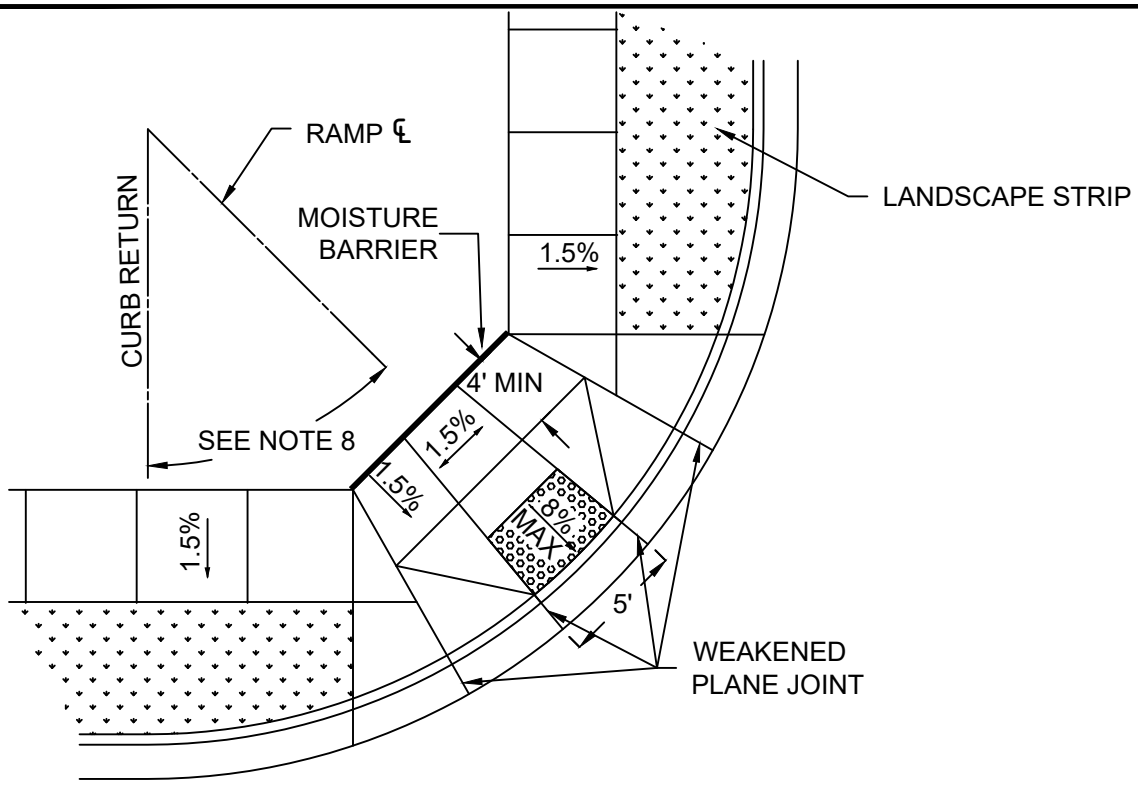


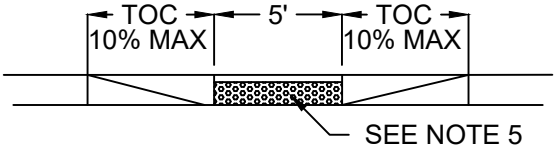
FRONT VIEW

NOTES:

1. CURB RAMPS SHALL COMPLY WITH THE ADA AND TITLE 24 STANDARDS.
2. REFER TO APPLICABLE DETAIL 3000, 3010, OR 3020 FOR CURB, GUTTER AND SIDEWALK DETAILS AND NOTES.
3. REFER TO DS 3-14 FOR RAMP LOCATION.
4. THE SURFACE OF THE RAMP AND FLARES SHALL HAVE A TRANSVERSED BROOMED SURFACE ROUGHER THAN THE SURROUNDING SIDEWALK.
5. TRANSITION FROM RAMP TO GUTTER SHALL BE FLUSH. FROM GUTTER FLOW LINE TO 4' BEYOND LIP SHALL BE A MAXIMUM OF 5%.
6. RAMP LANDING SHALL SLOPE 1.5% FROM BACK EDGE OF WALK TOWARD GUTTER.
7. CURB RAMPS SHALL HAVE DETECTABLE WARNING SURFACE THAT EXTENDS THE FULL WIDTH OF THE RAMP AND A DEPTH OF 3'. THE EDGE OF THE DETECTABLE WARNING SURFACE NEAREST THE STREET SHALL BE BETWEEN 6" AND 8" FROM THE GUTTER FLOWLINE; REFER TO CS 15-02.
8. USE CITY STANDARD CONCRETE.

3170	CURB RAMP (TYPE 4 & 5) MID-BLOCK RAMP	APPROVED: MARCH 2022	CITY OF DIXON ENGINEERING STANDARD DETAIL



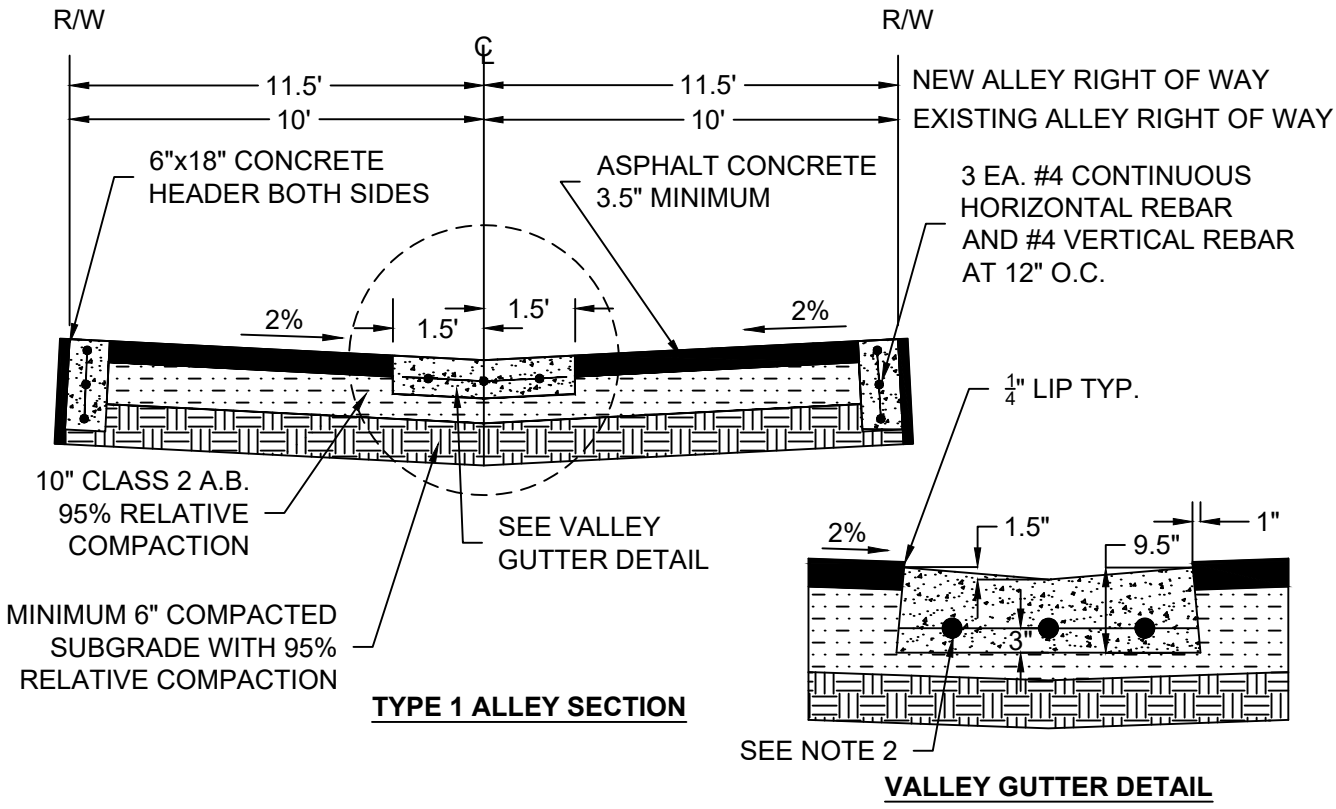


FRONT VIEW

NOTES:

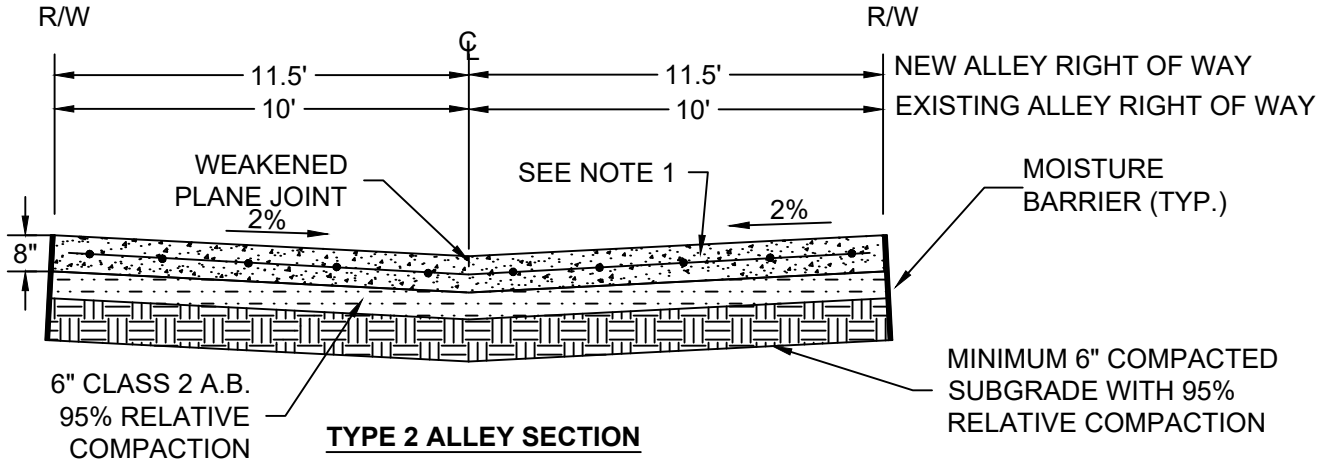
1. CURB RAMPS SHALL COMPLY WITH THE ADA AND TITLE 24 STANDARDS.
2. REFER TO APPLICABLE DETAIL 3000, 3010, OR 3020 FOR CURB, GUTTER AND SIDEWALK DETAILS AND NOTES.
3. REFER TO DS 3-14 FOR RAMP LOCATION.
4. THE SURFACE OF THE RAMP AND FLARES SHALL HAVE A TRANSVERSED BROOMED SURFACE ROUGHER THAN THE SURROUNDING SIDEWALK.
5. TRANSITION FROM RAMP TO GUTTER SHALL BE FLUSH. FROM GUTTER FLOWLINE TO 4' BEYOND LIP SHALL BE A MAXIMUM OF 5%.
6. RAMP LANDING SHALL SLOPE 1.5% FROM BACK EDGE OF WALK TOWARD GUTTER.
7. CURB RAMPS SHALL HAVE DETECTABLE WARNING SURFACE THAT EXTENDS THE FULL WIDTH OF THE RAMP AND A DEPTH OF 3'. THE EDGE OF THE DETECTABLE WARNING SURFACE NEAREST THE STREET SHALL BE BETWEEN 6" AND 8" FROM THE GUTTER FLOWLINE; REFER TO CS 15-02.
8. CENTERLINE OF RAMP TO BE VERIFIED BY CITY PRIOR TO PLACEMENT OF FORMS.
9. USE CITY STANDARD CONCRETE.

CITY OF DIXON ENGINEERING STANDARD DETAIL	APPROVED: MARCH 2022	SEPARATED SIDEWALK CURB RAMP (TYPE 6) RESIDENTIAL AND COLLECTOR STREET	3180



TYPE 1 ALLEY SECTION

VALLEY GUTTER DETAIL

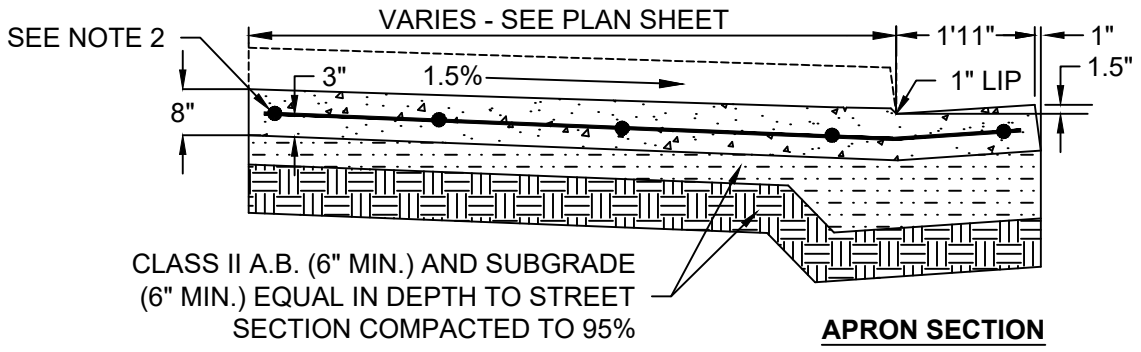


TYPE 2 ALLEY SECTION

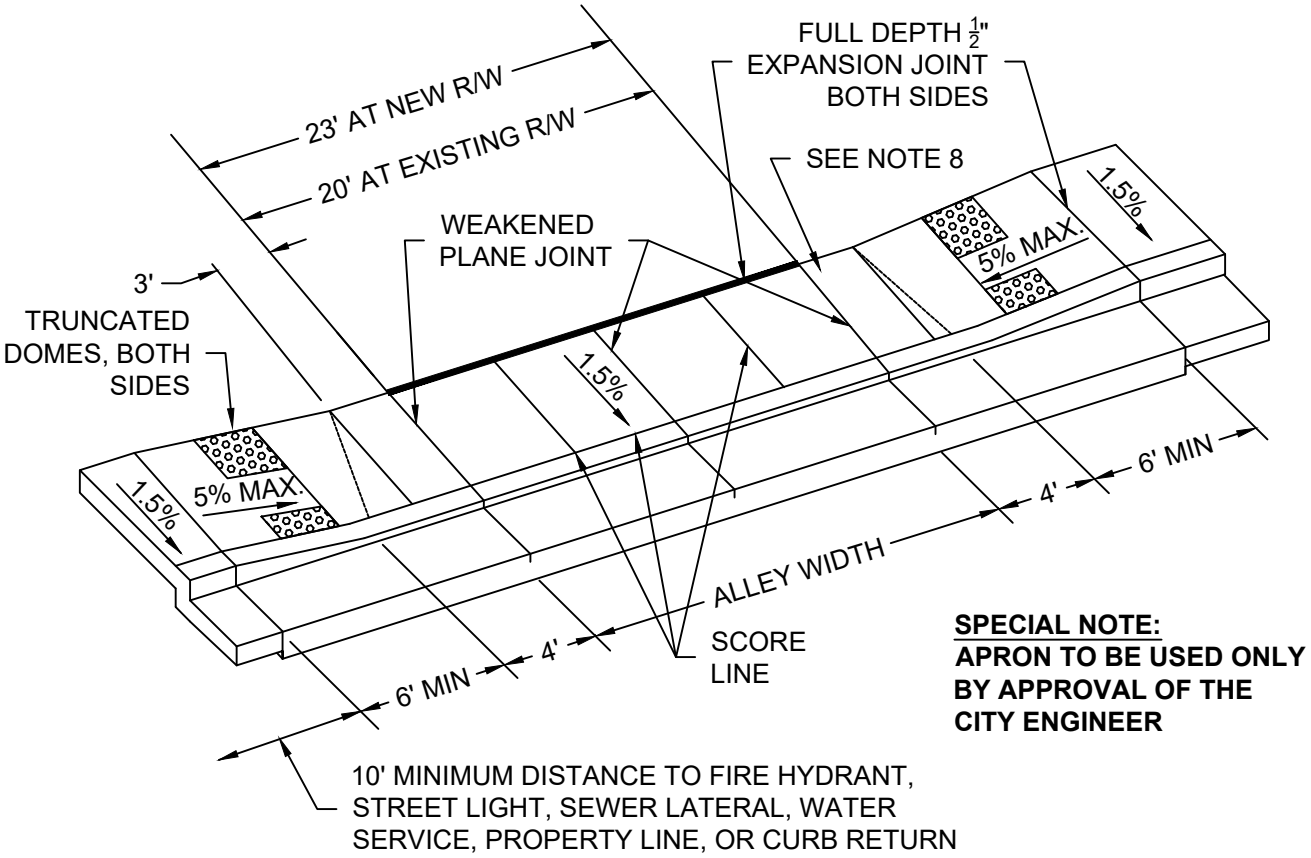
NOTES:

1. CITY STANDARD CONCRETE WITH #4 REBAR AT 18" O.C. BOTH WAYS, 24" MINIMUM OVERLAP.
2. #4 REBAR BOTH WAYS AT 12" O.C. LONGITUDINALLY AND 4' O.C. LATERALLY.
3. APPLY "FINE BROOM" FINISH TO TYPE 2 ALLEY PARALLEL TO CENTERLINE.
4. MINIMUM CORNER RADIUS SHALL BE ½" RADIUS.
5. THE TRANSVERSE WEAKEN PLANE JOINT INTERVAL SHALL BE 10' FOR EXISTING ALLEYS AND 11.5' FOR NEW ALLEYS.
6. EXPANSION JOINT INTERVALS SHALL BE PLACED AT EVERY THIRD TRANSVERSE WEAKEN PLANE JOINT.
7. USE CITY STANDARD CONCRETE.

3190	ALLEY SECTIONS TYPE 1 AND 2 NEW AND EXISTING RIGHT-OF-WAY	APPROVED: MARCH 2022	CITY OF DIXON ENGINEERING STANDARD DETAIL



APRON SECTION

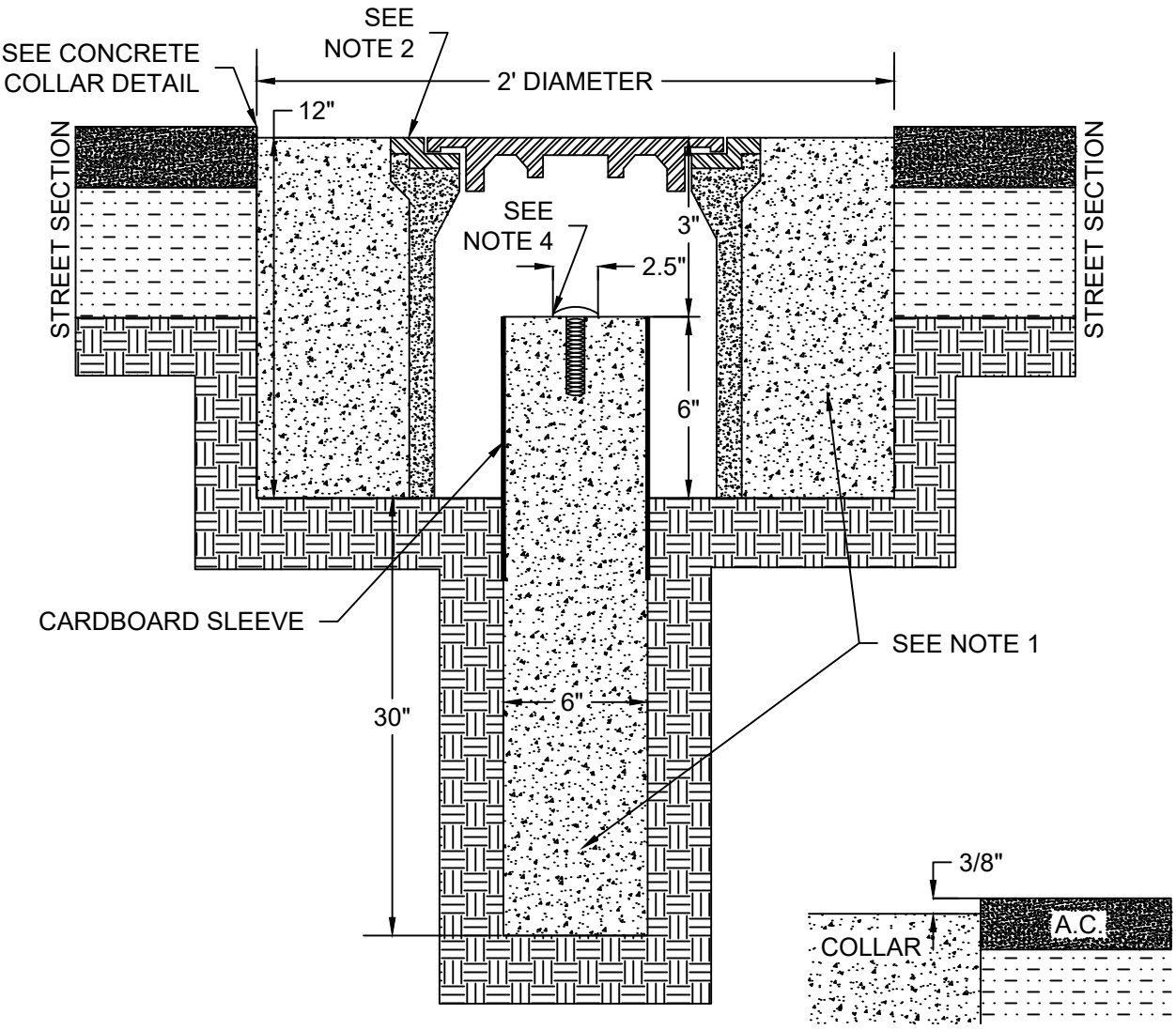


SPECIAL NOTE:
APRON TO BE USED ONLY BY APPROVAL OF THE CITY ENGINEER

NOTES:

1. CITY STANDARD CONCRETE WITH #4 REBAR AT 18" O.C. BOTH WAYS, 24" MINIMUM OVERLAP.
2. SCORE LINES SHALL BE ½" DEEP AND FORM A SQUARE.
3. APPLY "FINE BROOM" FINISH TO SIDEWALK PERPENDICULAR TO STREET; APPLY "FINE BROOM" FINISH TO CURB AND GUTTER PARALLEL TO STREET.
4. ALLEY APRON SHALL BE POURED MONOLITHICALLY.
5. WHEN TYING INTO EXISTING, DRILL AND DOWEL WITH 12" LONG, #4 REBAR AT A MAXIMUM 12" O.C.
6. MINIMUM CORNER RADIUS SHALL BE ½" RADIUS.
7. IF ADJACENT ASPHALT IS DAMAGED, REPLACE USING DETAIL 3130.
8. ALLEY WAY RIGHT OF WAY'S SHALL HAVE DETECTABLE WARNING SURFACE THAT EXTENDS THE FULL WIDTH OF THE SIDEWALK AT A DEPTH OF 3'. REFER TO CS 15-02.

CITY OF DIXON ENGINEERING STANDARD DETAIL	REGISTERED PROFESSIONAL ENGINEER DEBORAH A. BARR C054 CIVIL STATE OF CALIFORNIA APPROVED: MARCH 2022	ALLEY APRON	3200

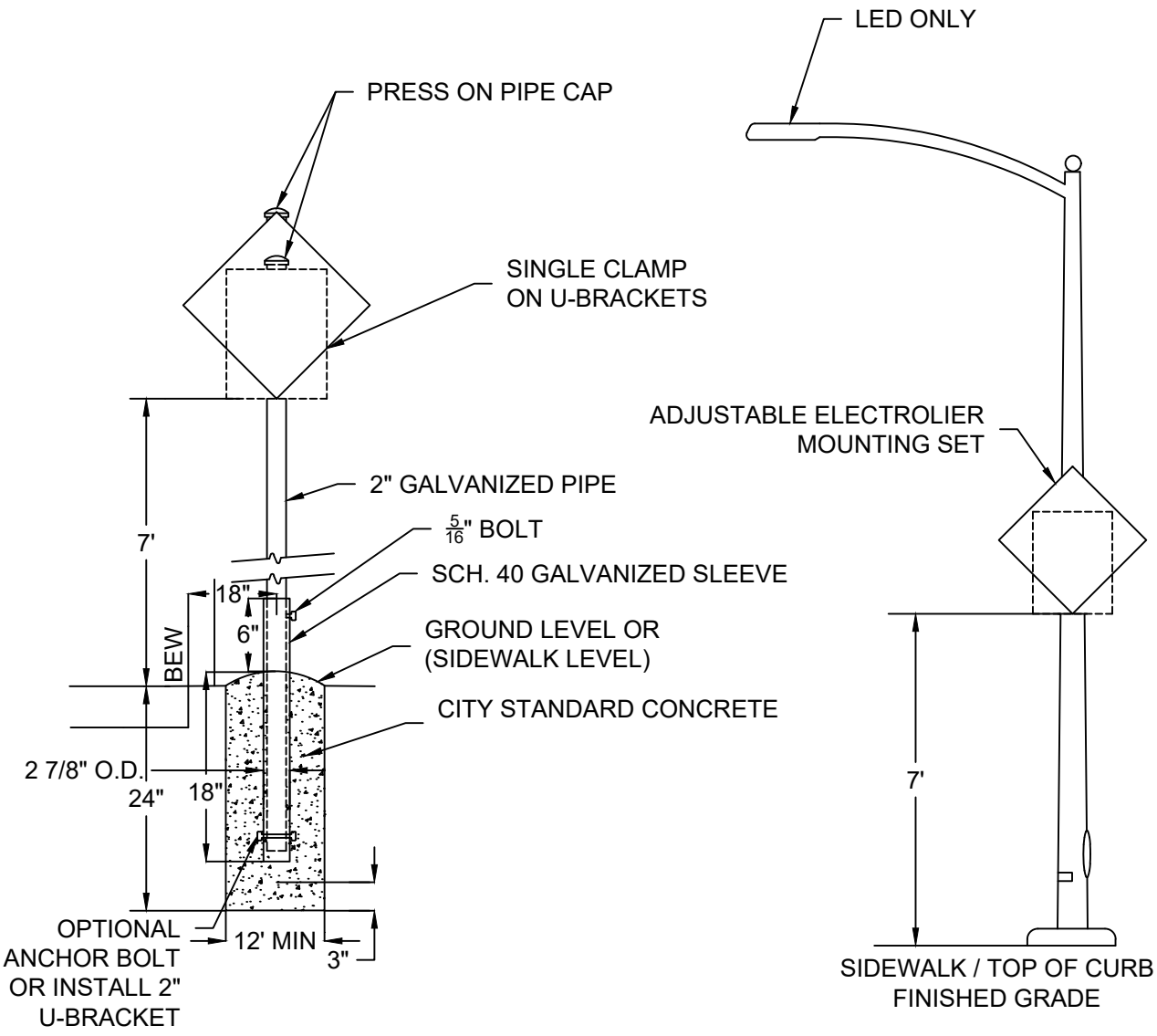


CONCRETE COLLAR DETAIL

NOTES:

1. USE CITY STANDARD CONCRETE.
2. COLLAR SHALL BE INTEGRALLY COLORED WITH PIGMENT #807 AS MANUFACTURED BY DAVIS COLORS.
3. MONUMENT FRAME AND COVER SHALL BE CHRISTY G5 TRAFFIC VALVE BOX OR APPROVED EQUAL. LID SHALL BE MARKED "MONUMENT".
4. SURVEY MARKER SHALL BE LEITZ 8134-16 OR SERVICE CO. 287-C.
5. THE R.E. OR L.S. NUMBER MUST APPEAR ON THE MONUMENT MARKER.
6. MARK REFERENCE POINT WITH A "+".

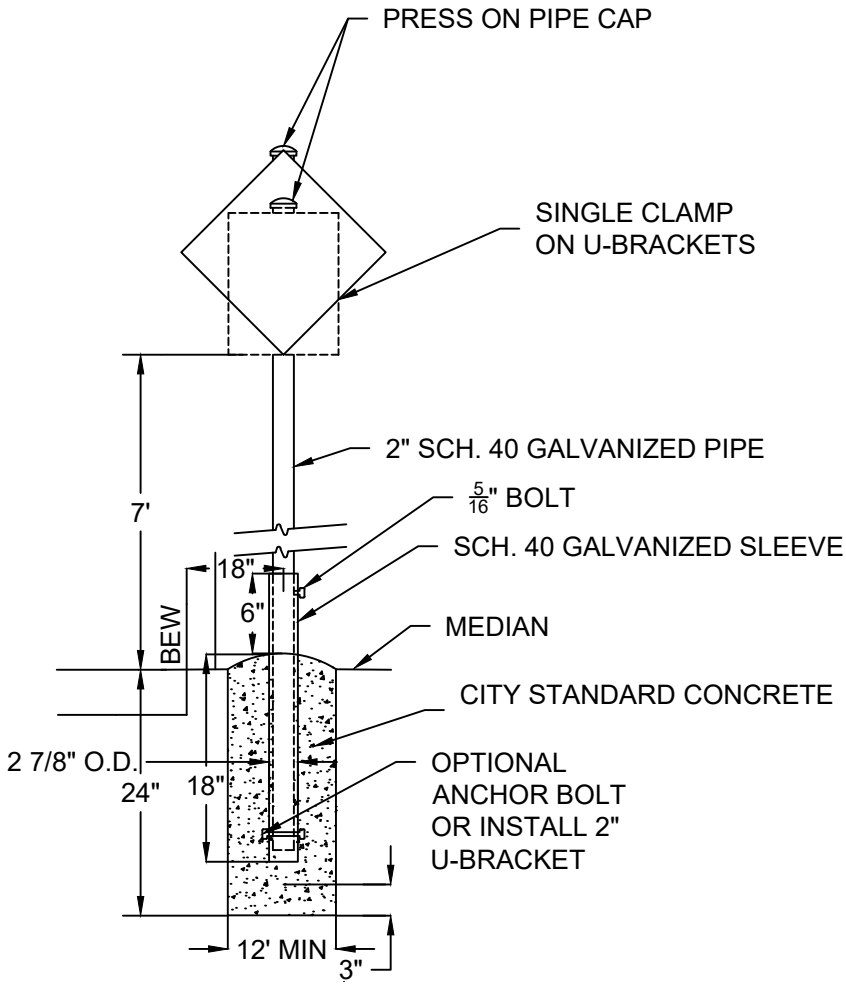
3210	STREET SURVEY MONUMENT	APPROVED: MARCH 2022	CITY OF DIXON ENGINEERING STANDARD DETAIL

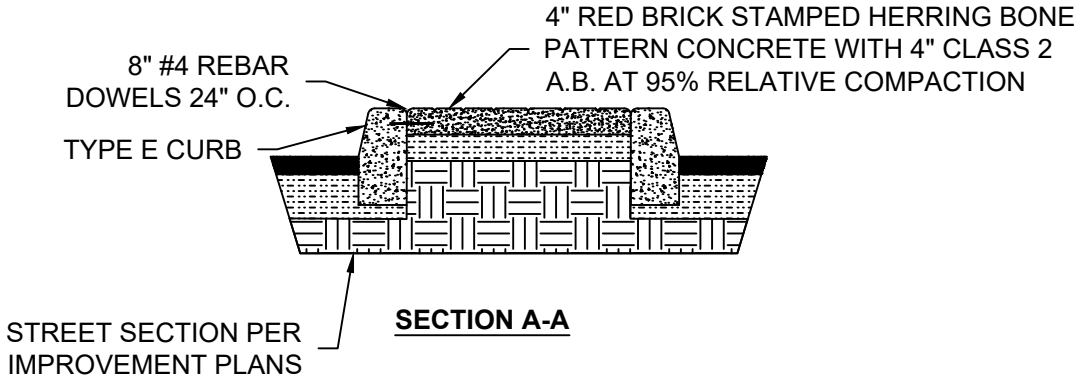


NOTES:

1. SIGN LOCATIONS TO BE DETERMINED BY THE CITY ENGINEER PRIOR TO PLACEMENT.
2. BACK BRACING REQUIRED FOR SIGNS LARGER THAN 18"x24" OR WHERE IDENTIFIED BY THE CITY ENGINEER.
3. ALL SIGNS SHALL BE HIGH-INTENSITY PRISMATIC WITH GRAFFITI FILM.
4. ALL MOUNTING HARDWARE SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO INSTALLATION.

CITY OF DIXON ENGINEERING STANDARD DETAIL	REGISTERED PROFESSIONAL ENGINEER DEBORAH A. BARTHER CIVIL STATE OF CALIFORNIA APPROVED: MARCH 2022	STREET SIGN	3220



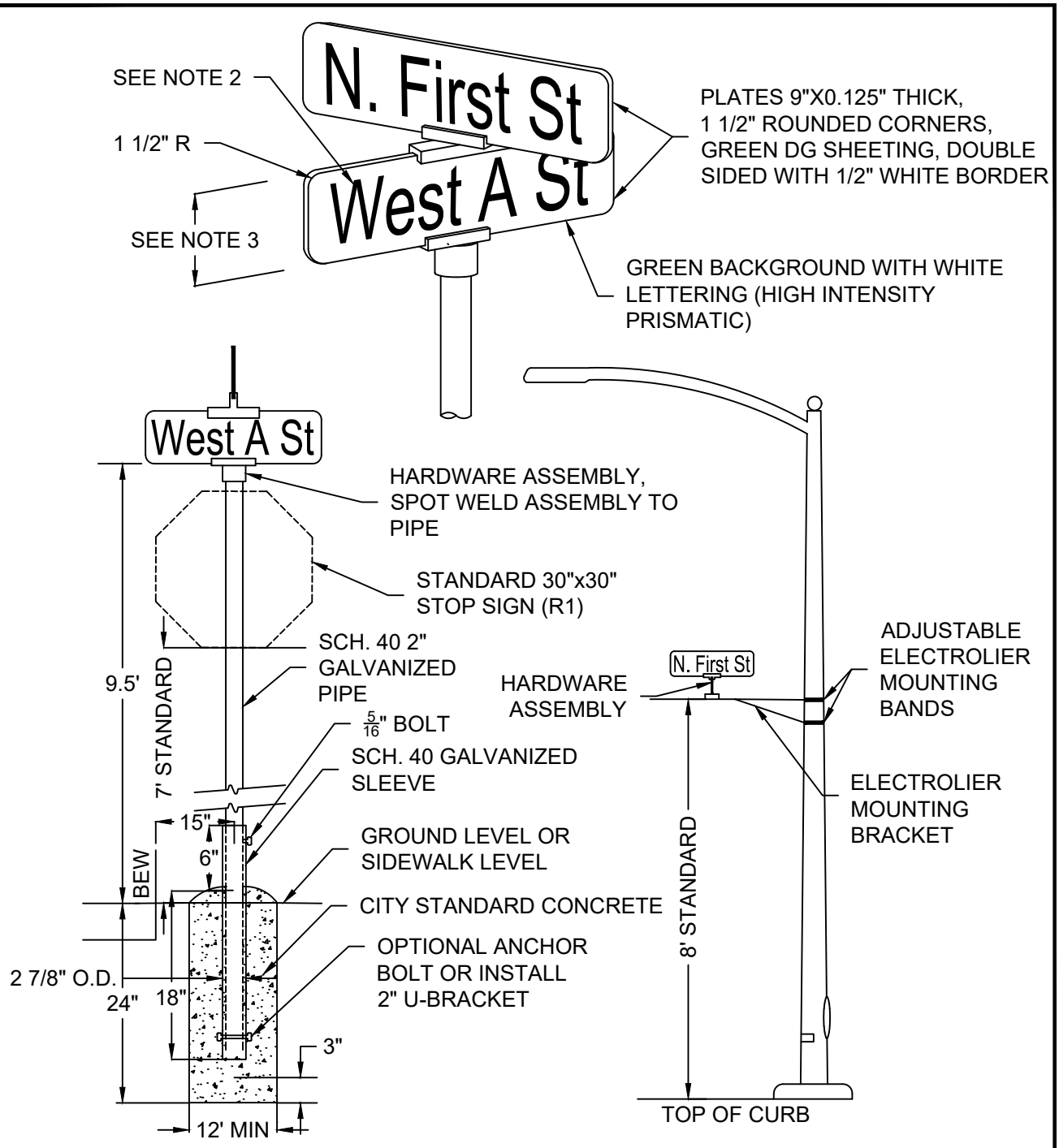


SECTION A-A

NOTES:

1. SIGN LOCATIONS TO BE DETERMINED BY THE CITY ENGINEER PRIOR TO PLACEMENT.
2. BACK BRACING REQUIRED FOR SIGNS LARGER THAN 18"x24" OR WHERE IDENTIFIED BY THE CITY ENGINEER.
3. ALL SIGNS SHALL BE HIGH-INTENSITY PRISMATIC WITH GRAFFITI FILM.
4. ALL MOUNTING HARDWARE SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO INSTALLATION.

3230	MEDIAN SIGNS WITH "BREAK-AWAY"	APPROVED: MARCH 2022	CITY OF DIXON ENGINEERING STANDARD DETAIL



NOTES:

1. SIGN LOCATIONS TO BE DETERMINED BY THE CITY ENGINEER.
2. LETTERING SHALL BE HWY GOTHIC MOD C, WITH 1/2" STROKE WIDTH MINIMUM. INITIAL UPPER-CASE LETTER AT LEAST 6 INCHES AND LOWER-CASE LETTERS AT LEAST 4.5 INCHES IN HEIGHT.
3. SEE CS-20 "STREET NAME SIGNS" FOR DETAILS.
4. ALL MOUNTING HARDWARE SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO INSTALLATION.

CITY OF DIXON ENGINEERING STANDARD DETAIL	APPROVED: MARCH 2022	STREET NAME SIGN	3240

CITY OF DIXON

ENGINEERING

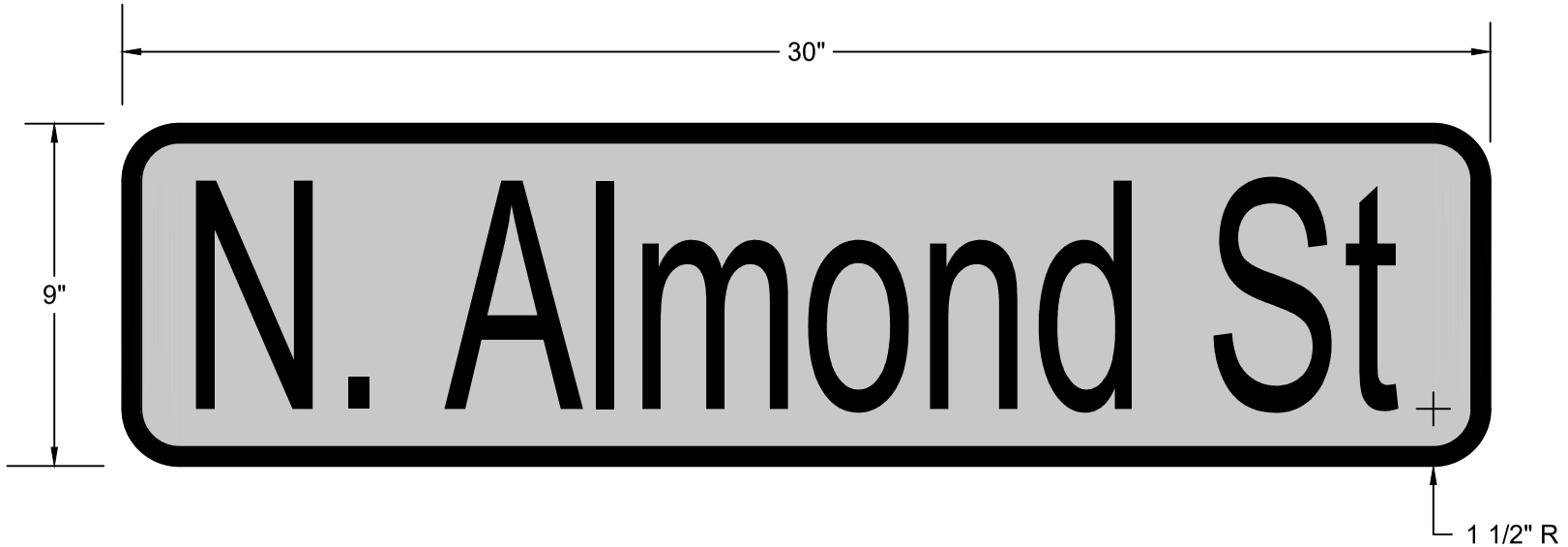
STANDARD DETAIL

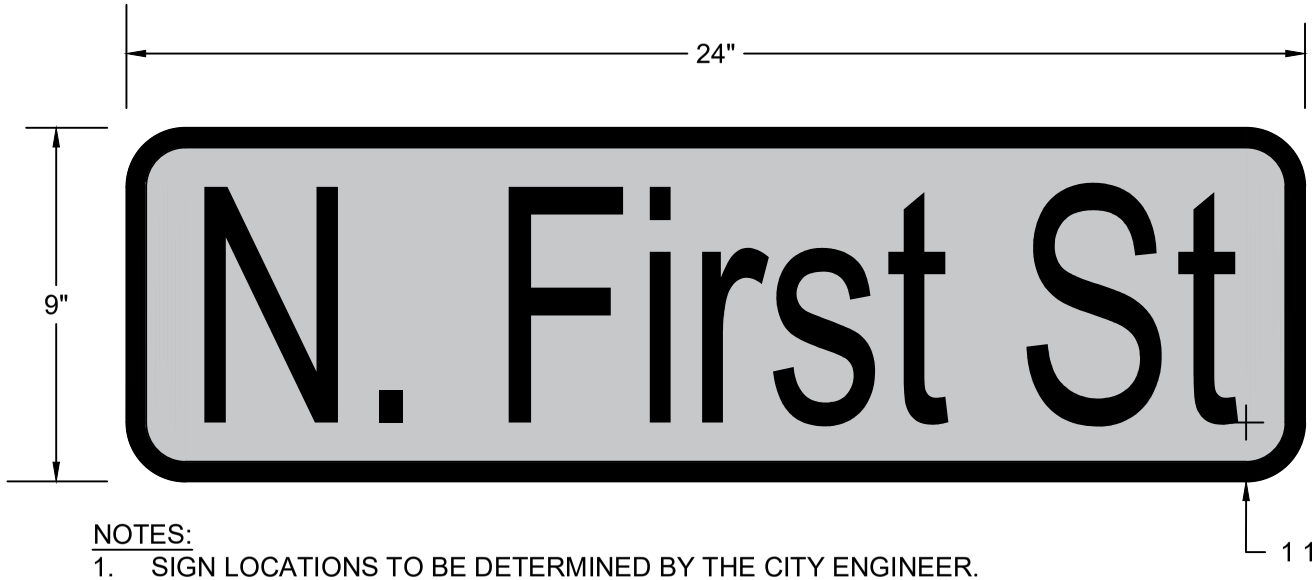
APPROVED: MARCH 2022

STREET NAME SIGN

3240

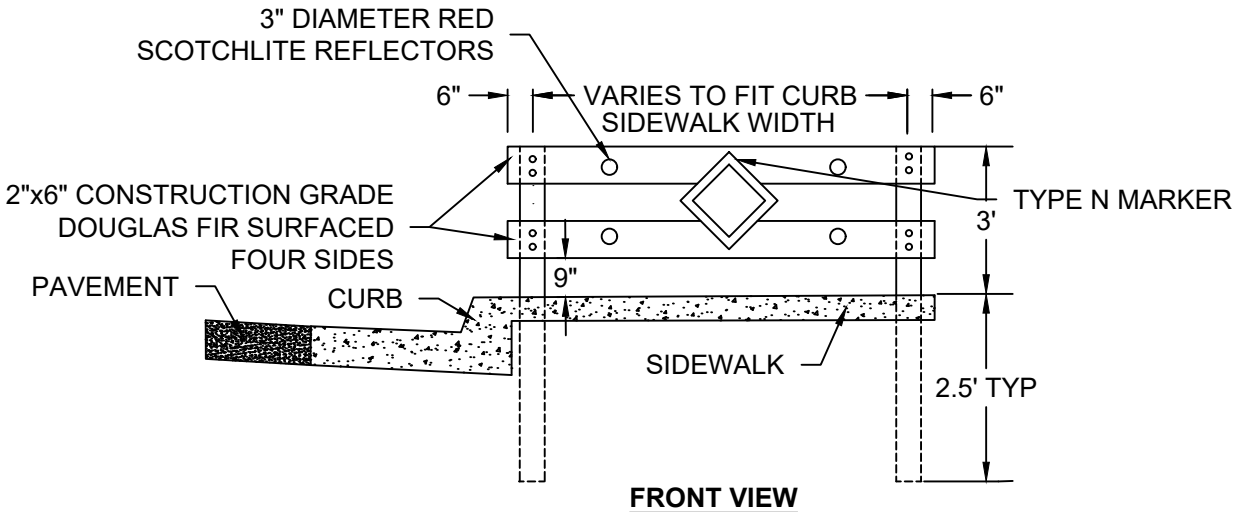
SHEET 2 OF 2



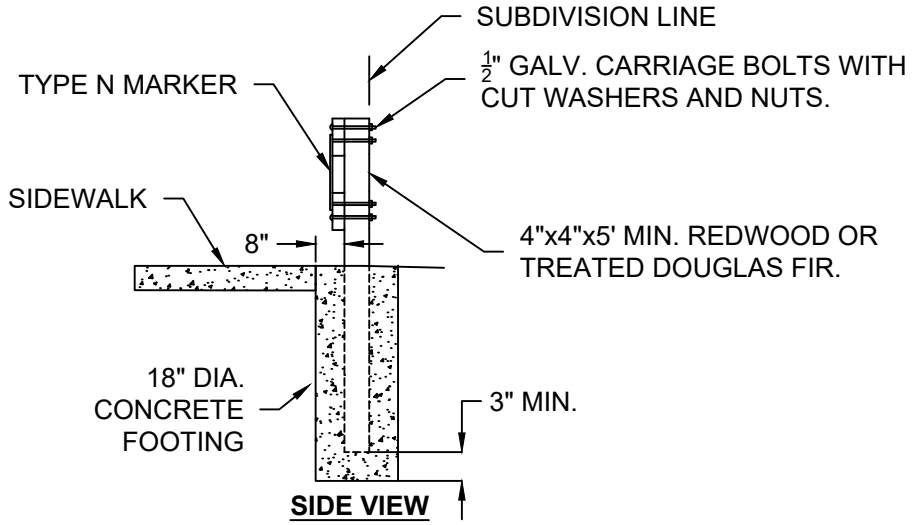


NOTES:

1. SIGN LOCATIONS TO BE DETERMINED BY THE CITY ENGINEER.
2. LETTERING SHALL BE HWY GOTHIC MOD C, WITH 1/2" STROKE WIDTH MINIMUM. INITIAL UPPER-CASE LETTER AT LEAST 6 INCHES AND LOWER-CASE LETTERS AT LEAST 4.5 INCHES IN HEIGHT.



FRONT VIEW

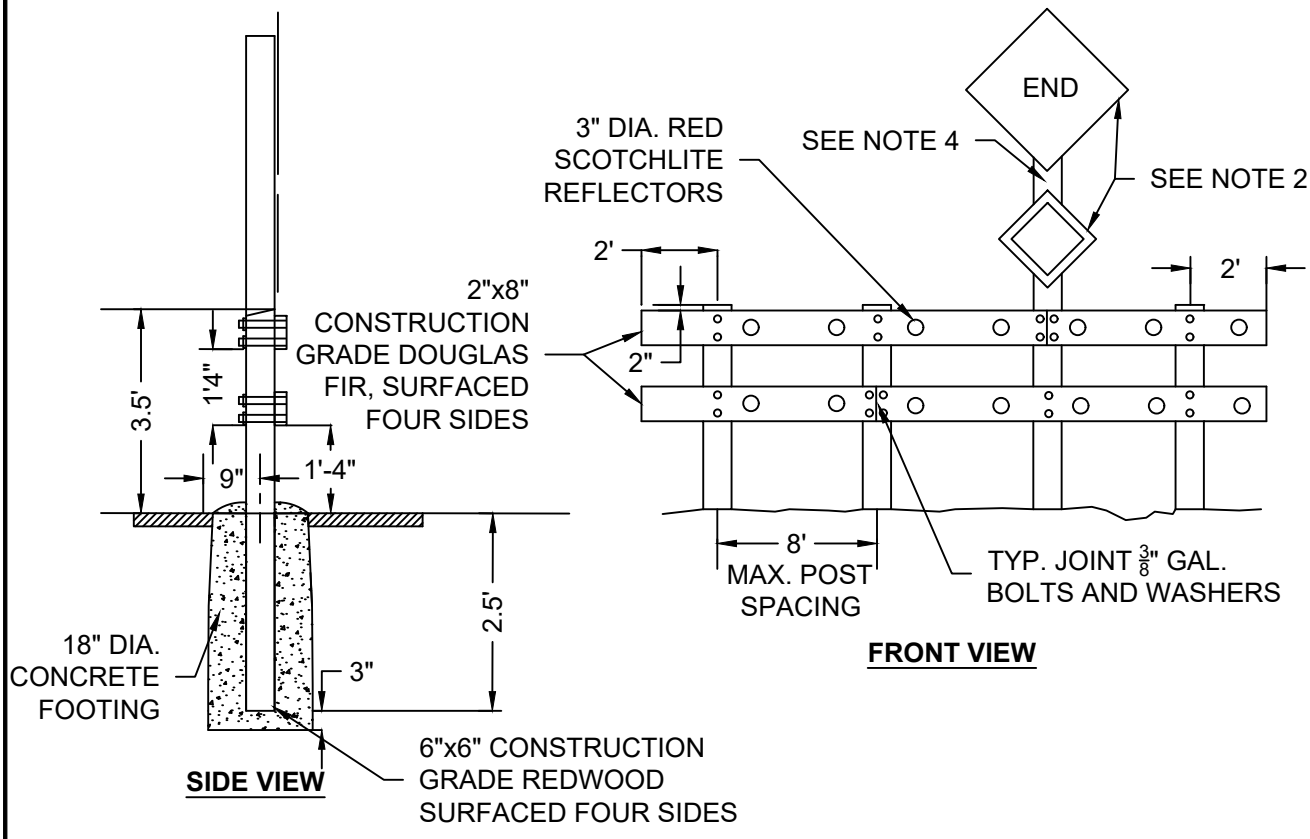


SIDE VIEW

NOTES:

1. SIDEWALK BARRICADES TO BE ERECTED AT EACH LOCATION WHERE SATISFACTORY PROVISION CANNOT BE MADE FOR PEDESTRIANS TO CONTINUE BEYOND THE TERMINUS OF A SIDEWALK.
2. ALL EXPOSED WOOD SURFACES SHALL BE PAINTED WITH (2) COATS OF WHITE PAINT CONFORMING TO STATE STANDARD SPECIFICATION 91-3.02.

3250	SIDEWALK BARRICADE	APPROVED: MARCH 2022	CITY OF DIXON ENGINEERING STANDARD DETAIL



	NUMBER		SIZE		SIGN	
R/W	W31		TYPE N		C2 SIGN	
WIDTH	SIZE	NO.	SIZE	NO.	SIZE	NO.
≤ 50'	30"	1	18"	1	24"x36"	1
51'-75	30"	2	18"	2	30"x48"	1
>75'	30"	2	18"	2	30"x48"	1

NOTES:

1. AT STREET TERMINATION LOCATIONS, AS APPROVED BY THE CITY ENGINEER, A C2 "ROAD CLOSED" SIGN WILL BE REQUIRED ON THE CENTERLINE OF THE ROAD IN ADDITION TO THE W31 "END" SIGNS.
2. 30"x30" W31 SIGNS AND 18"x18" RED TYPED N MARKERS ARE REQUIRED.
3. ALL EXPOSED SURFACES SHALL BE PAINTED WITH TWO COATS OF WHITE PAINT CONFORMING TO THE STATE STANDARD SPECIFICATION 91-3.02 PRIOR TO PLACEMENT OF REFLECTORS.
4. PLACE POST AT OR NEAREST TO CENTER. EXTEND RIGHT HAD SIDE TO PROVIDE MOUNTING FOR SIGNS.
5. USE CITY STANDARD CONCRETE.

CITY OF DIXON

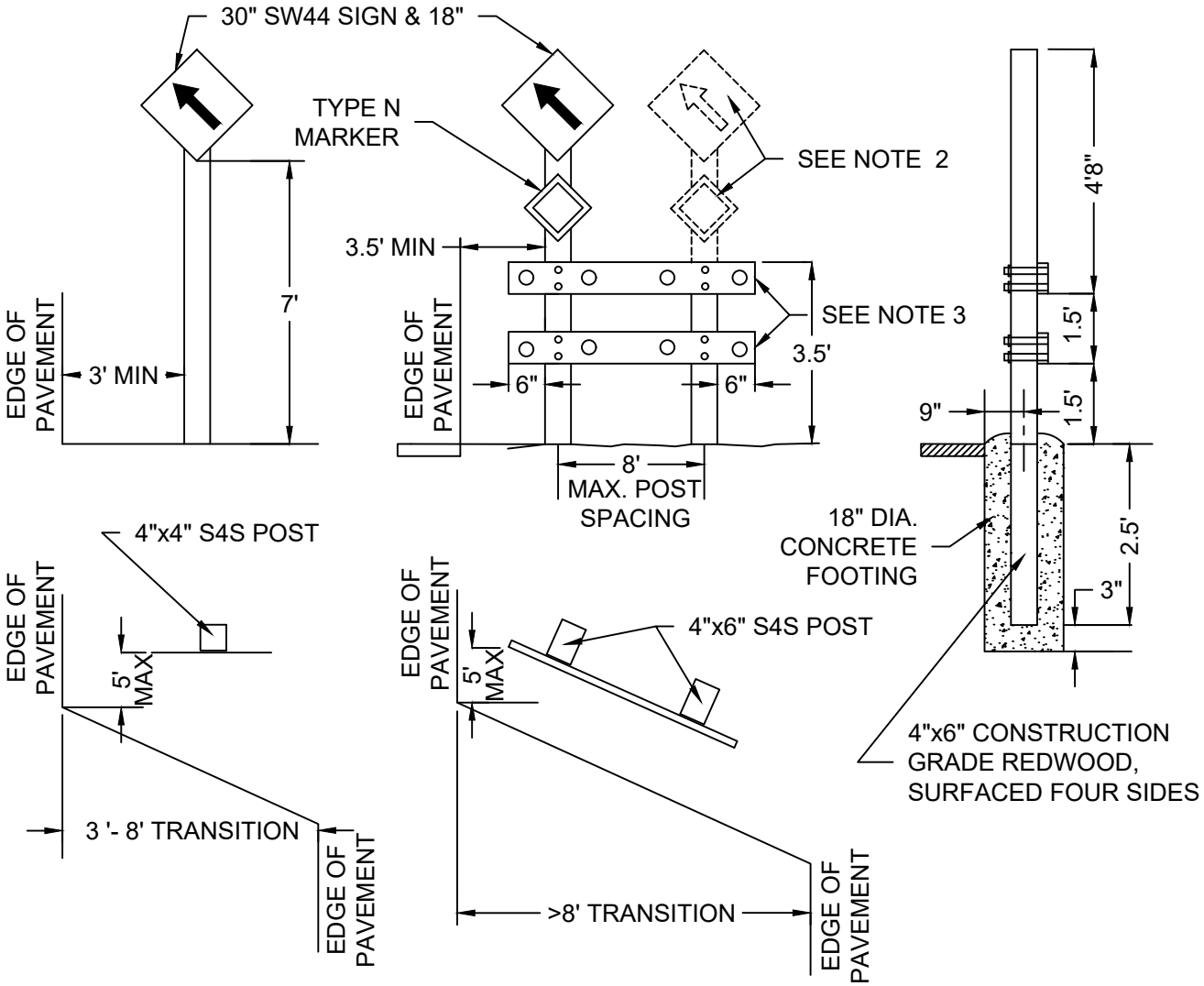
ENGINEERING STANDARD DETAIL

REGISTERED PROFESSIONAL ENGINEER DEBORAH A. BARRETT 2654 CIVIL STATE OF CALIFORNIA

APPROVED: MARCH 2022

END OF STREET BARRICADE

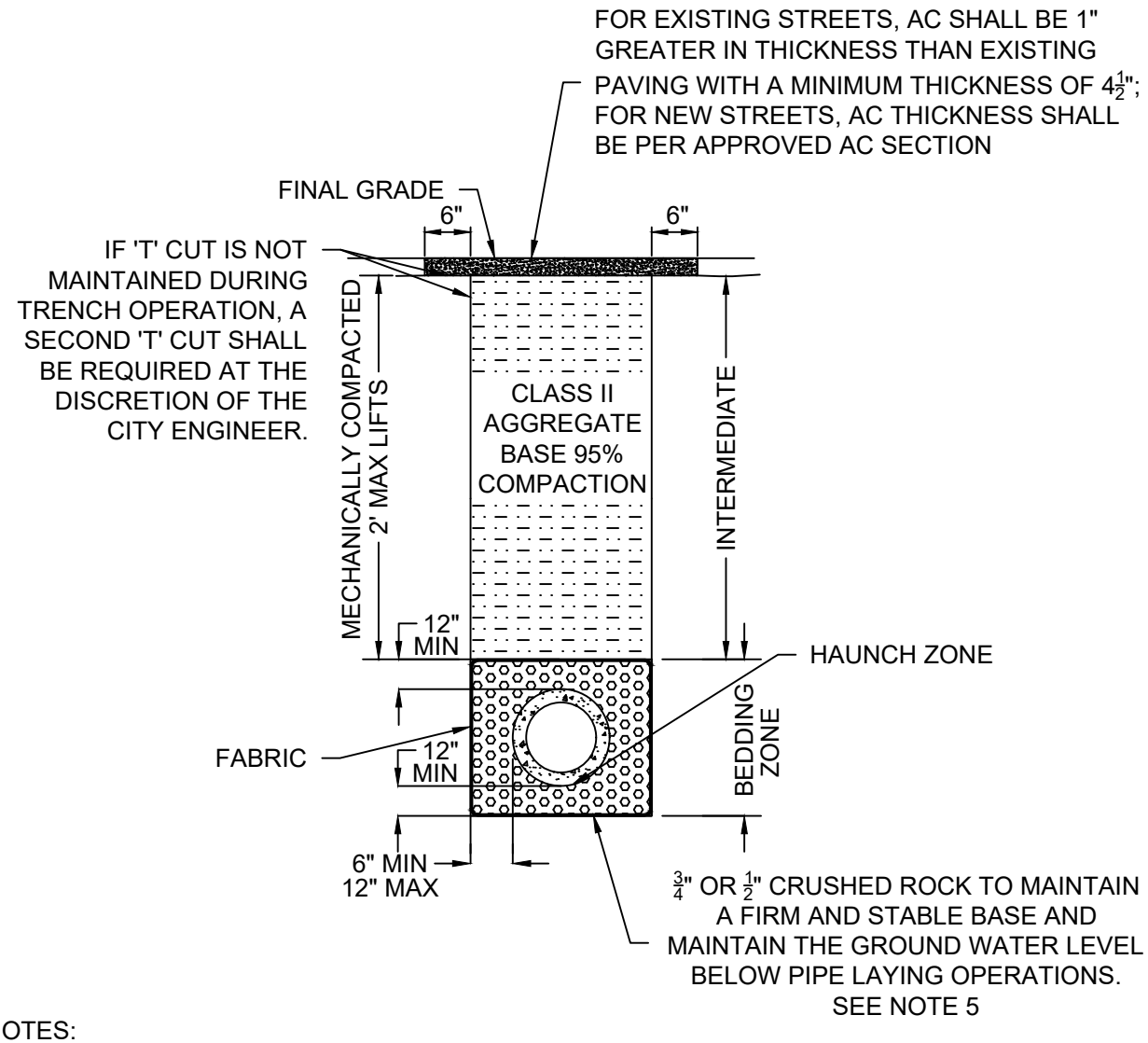
3260



NOTES:

1. ALL EXPOSED WOOD SURFACES SHALL BE PAINTED WITH (2) COATS OF WHITE PAINT CONFORMING TO STATE STANDARD SPECIFICATION 91-3.02.
2. FOR TRANSITION GREATER THAN 18', A SECOND SW44 AND TYPE N MARKER SHALL BE REQUIRED ON THE EXTENSION OF THE SECOND POST FROM THE EDGE OF PAVEMENT.
3. 2"x18" CONSTRUCTION GRADE REDWOOD SURFACED FOUR SIDES.
4. USE CITY STANDARD CONCRETE.

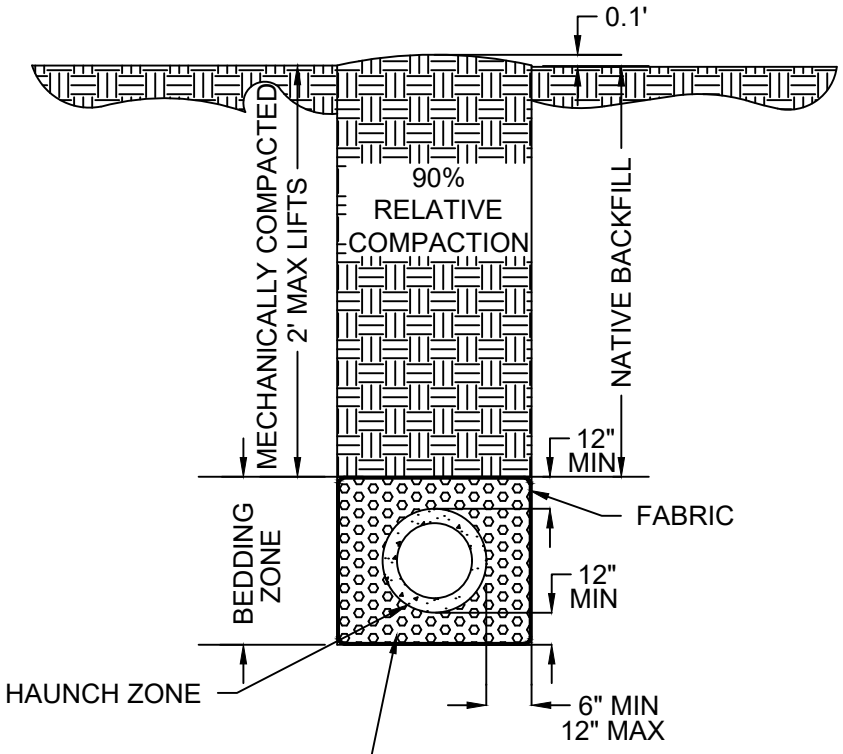
3270	STREET TRANSITION SIGN & BARRICADE	APPROVED: MARCH 2022	CITY OF DIXON ENGINEERING STANDARD DETAIL



NOTES:

1. TEMPORARY ASPHALT SURFACING SHALL HAVE A MINIMUM THICKNESS OF 2 INCHES AND SHALL BE PLACED IMMEDIATELY AFTER BACKFILL INSTEAD OF FINAL PAVING, TEMPORARY CUTBACK SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL PERMANENT PAVING IS INSTALLED. PERMANENT PAVING TO BE INSTALLED NO LATER THAN 30 DAYS FOLLOWING BACKFILL OPERATION.
2. PRIOR TO PERMANENT PAVING, EXISTING A.C. SHALL BE SAWCUT TO A NEAT EDGE 6" ON EITHER SIDE AND SHALL BE TACKED PRIOR TO REPAVING.
3. FINAL TRENCH DETAIL DEPENDENT UPON DESIGN, PIPE MATERIAL AND SOIL CONDITIONS.
4. FINAL A.C. PAVING SHALL BE PLACED ⅛" ABOVE ADJACENT A.C. GRADE
5. BEDDING ZONE SHALL CONSIST OF ¾" OR ½" CRUSHED ROCK AS PER ASTM C-12. CRUSHED ROCK SHALL BE PLACED IN A MANNER SUCH AS SHOVEL-SLICING SPADE OR SHOVEL RODDING TO ENSURE CONSOLIDATION OF HAUNCH ZONE BELOW SPRINGLINE OF THE PIPE.
6. INTERMEDIATE BACKFILL REQUIREMENTS SHALL BE AS SPECIFIED BY THE SOILS ENGINEER, OR THE DESIGN ENGINEER IN ACCORDANCE WITH THE SOIL REPORT, AS APPROVED BY THE CITY ENGINEER.
7. A 2-SACK SAND SLURRY BACKFILL MAY BE UTILIZED IN THE INTERMEDIATE ZONE AS APPROVED BY THE CITY ENGINEER.

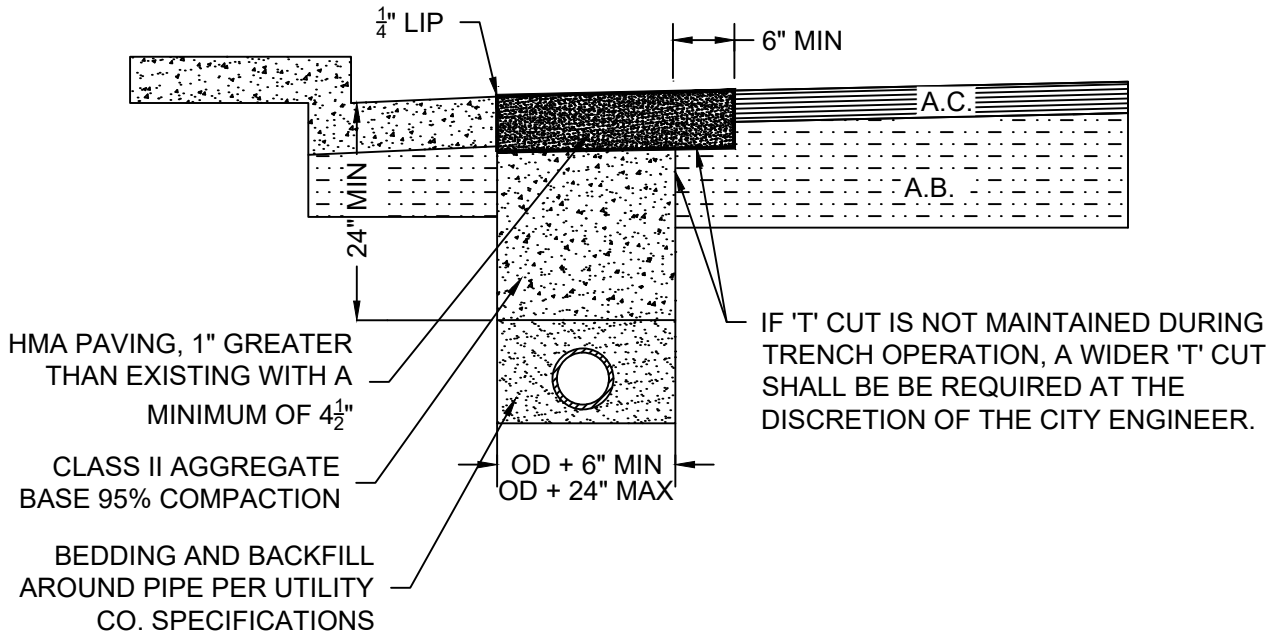
CITY OF DIXON ENGINEERING STANDARD DETAIL	REGISTERED PROFESSIONAL ENGINEER DEBORAH A. BARTLETT C 54 CIVIL STATE OF CALIFORNIA APPROVED: MARCH 2022	TRENCH BACKFILL FOR CITY UTILITIES WITHIN PAVED AREA	3280

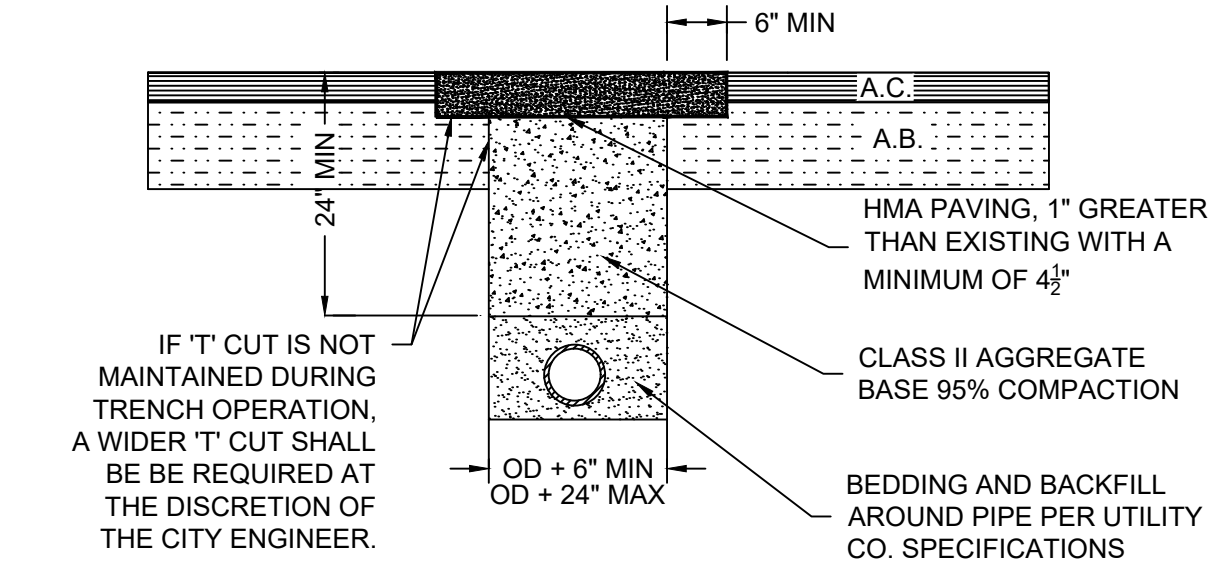


NOTES:

1. FINAL TRENCH DETAIL DEPENDENT UPON DESIGN, PIPE MATERIAL, AND SOIL CONDITIONS.
2. BEDDING ZONE SHALL CONSIST OF ¾" OR ½" CRUSHED ROCK AS PER ASTM-C-12. CRUSHED ROCK SHALL BE PLACED IN A MANNER SUCH AS SHOVEL-SLICING SPADE OR SHOVEL RODDING TO ENSURE CONSOLIDATION OF HAUNCH ZONE BELOW SPRINGLINE OF THE PIPE.

3290	TRENCH BACKFILL FOR CITY UTILITIES IN UNPAVED AREAS	APPROVED: MARCH 2022	CITY OF DIXON ENGINEERING STANDARD DETAIL

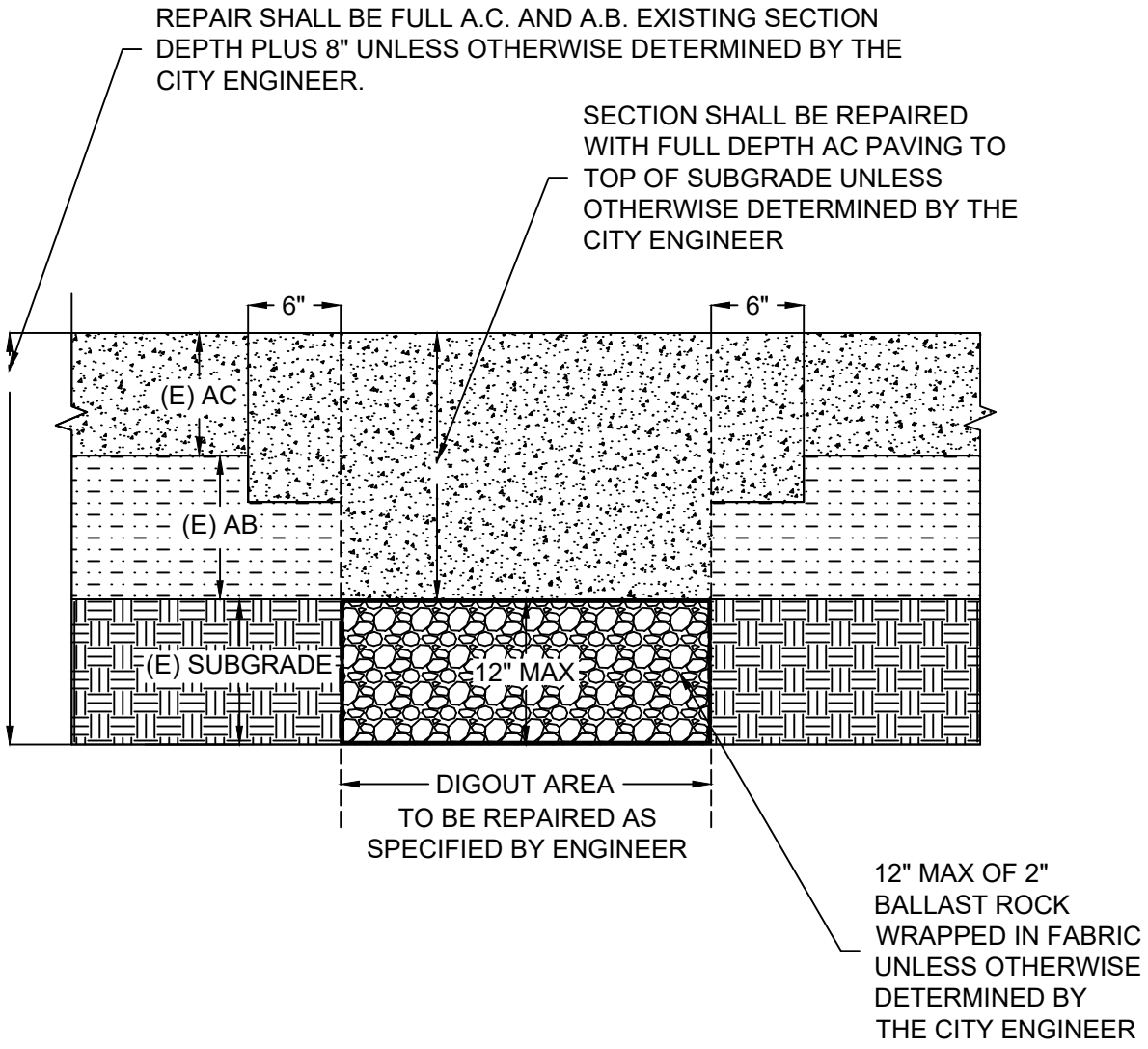




NOTES:

1. TEMPORARY ASPHALT SURFACING SHALL HAVE A MINIMUM THICKNESS OF 2 INCHES AND SHALL BE PLACED IMMEDIATELY AFTER BACKFILL INSTEAD OF FINAL PAVING, TEMPORARY CUTBACK SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL PERMANENT PAVING IS INSTALLED. PERMANENT PAVING TO BE INSTALLED NO LATER THAN 30 DAYS FOLLOWING BACKFILL OPERATION.
2. PRIOR TO PERMANENT PAVING, EXISTING A.C. SHALL BE SAWCUT TO A NEAT EDGE 6" ON EITHER SIDE AND SHALL BE TACKED PRIOR TO REPAVING.
3. FINAL R.M.A. PAVING SHALL BE PLACED 1/8" ABOVE ADJACENT A.C. GRADE.
4. FOR ADDITIONAL PAVEMENT REQUIREMENTS SEE STANDARD SPECIFICATIONS FOR SURFACE [illegible]

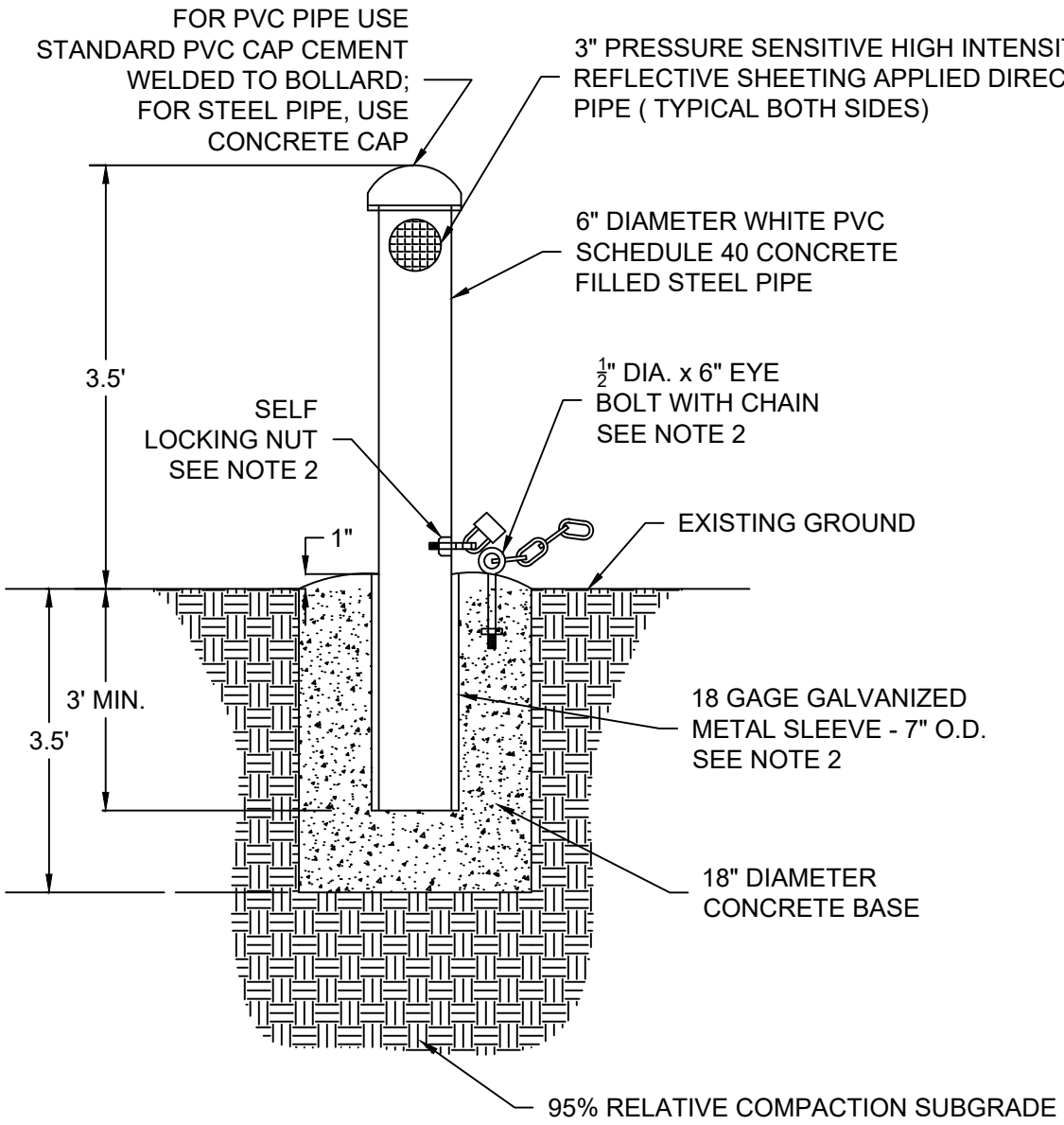
CITY OF DIXON ENGINEERING STANDARD DETAIL	APPROVED: MARCH 2022	UTILITY TRENCH FOR NON-CITY UTILITIES	3300



NOTES:

1. TEMPORARY CUTBACK SHALL BE PLACED IMMEDIATELY AFTER BACKFILL INSTEAD OF FINAL PAVING, TEMPORARY CUTBACK SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL PERMANENT PAVING IS INSTALLED. PERMANENT PAVING TO BE INSTALLED NO LATER THAN 30 DAYS FOLLOWING BACKFILL OPERATION.
2. PRIOR TO PERMANENT PAVING, EXISTING A.C. SHALL BE SAWCUT TO A NEAT EDGE 6" ON EITHER SIDE AND SHALL BE TACKED PRIOR TO REPAVING.
3. FINAL A.C. PAVING SHALL BE PLACED $\frac{1}{8}$" ABOVE ADJACENT A.C. GRADE

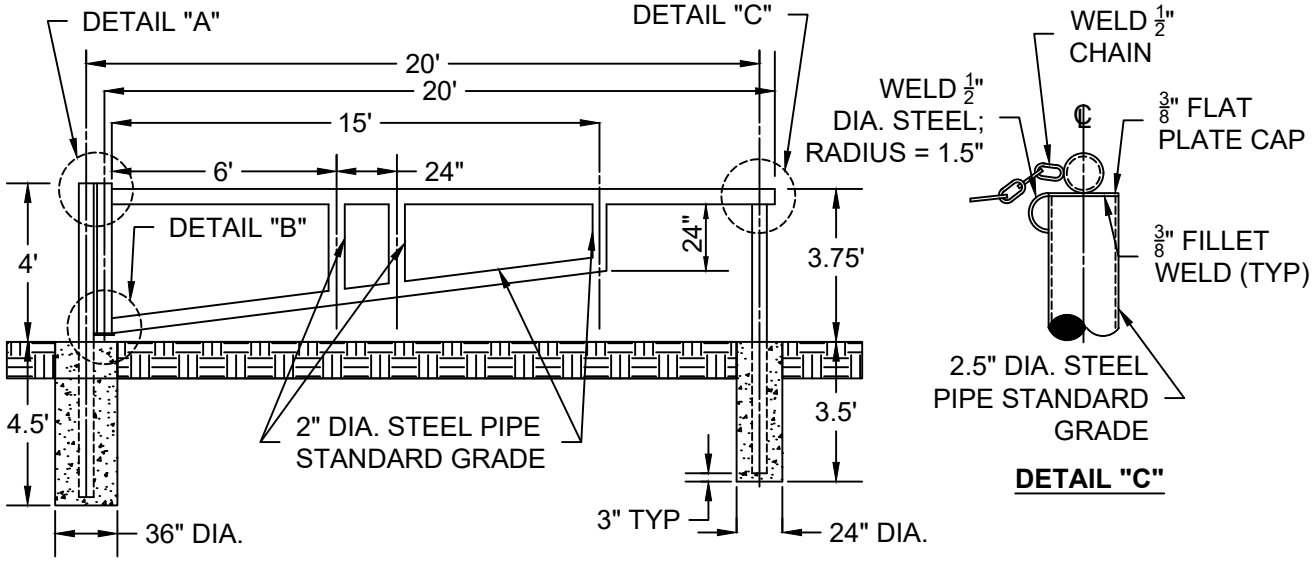
3310	PAVEMENT DIGOUT REPAIR	APPROVED: MARCH 2022	CITY OF DIXON ENGINEERING STANDARD DETAIL

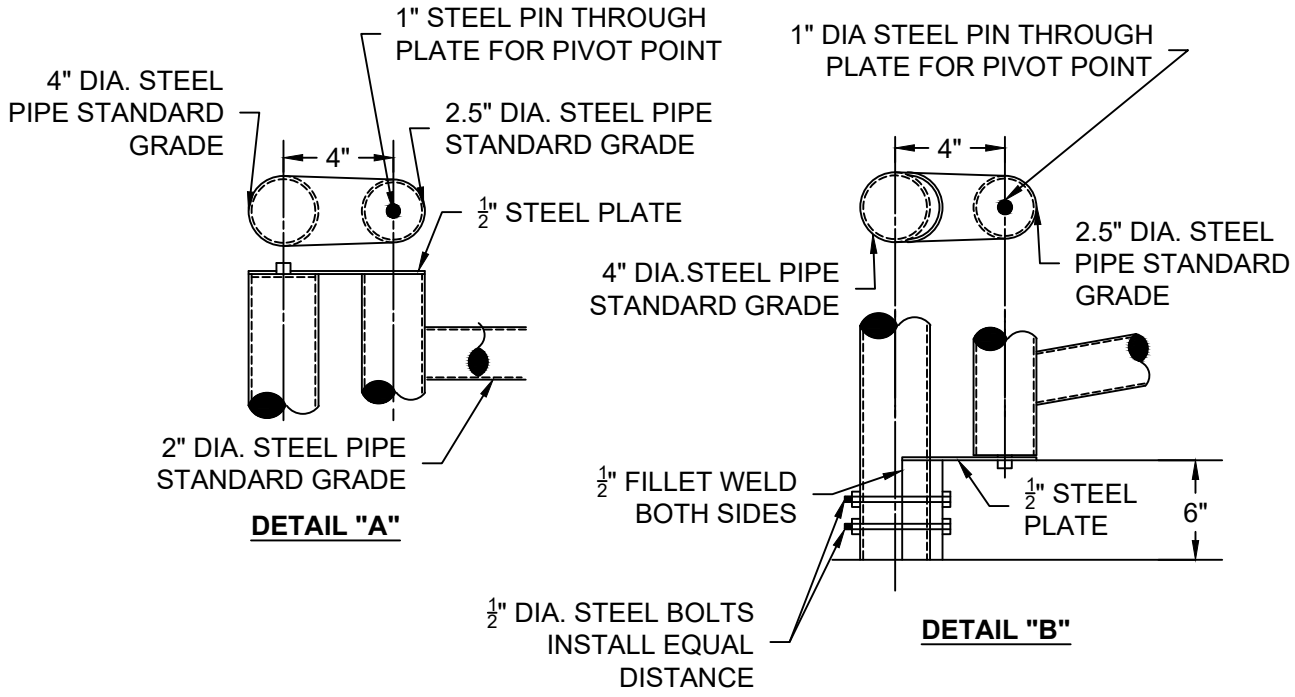


NOTES:

1. USE CITY STANDARD CONCRETE.
2. OMIT CHAIN LOCKING DEVICE & FOOTING SLEEVE WHEN INSTALLING CONCRETE FILLED STEEL PIPE BOLLARD.
3. LOCATED NOT LESS THAN 3 FEET FROM PROTECTED OBJECT.

CITY OF DIXON ENGINEERING STANDARD DETAIL	APPROVED: MARCH 2022	PVC & CONCRETE FILLED STEEL PIPE BOLLARD	3320

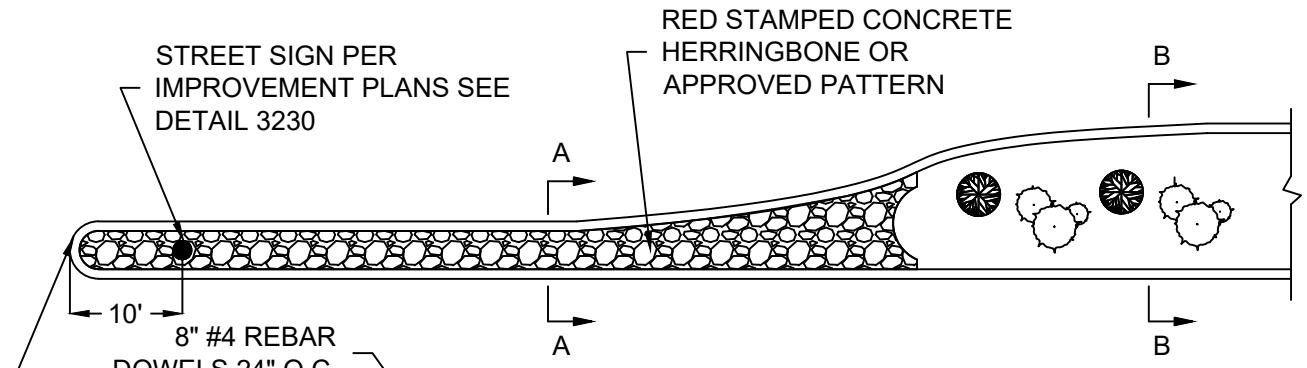


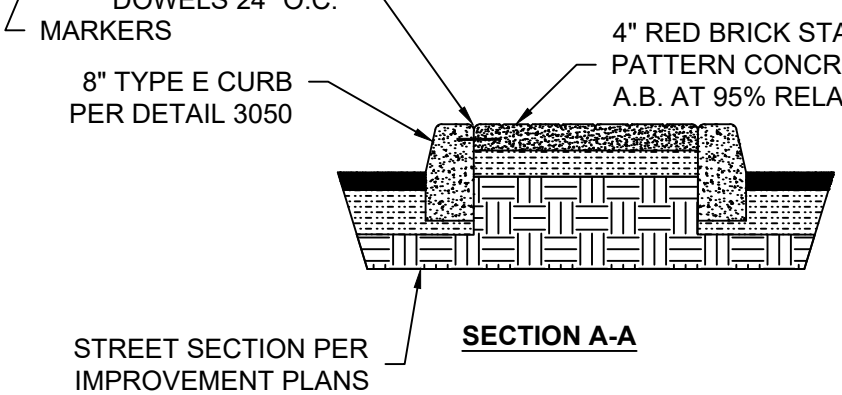


NOTES:

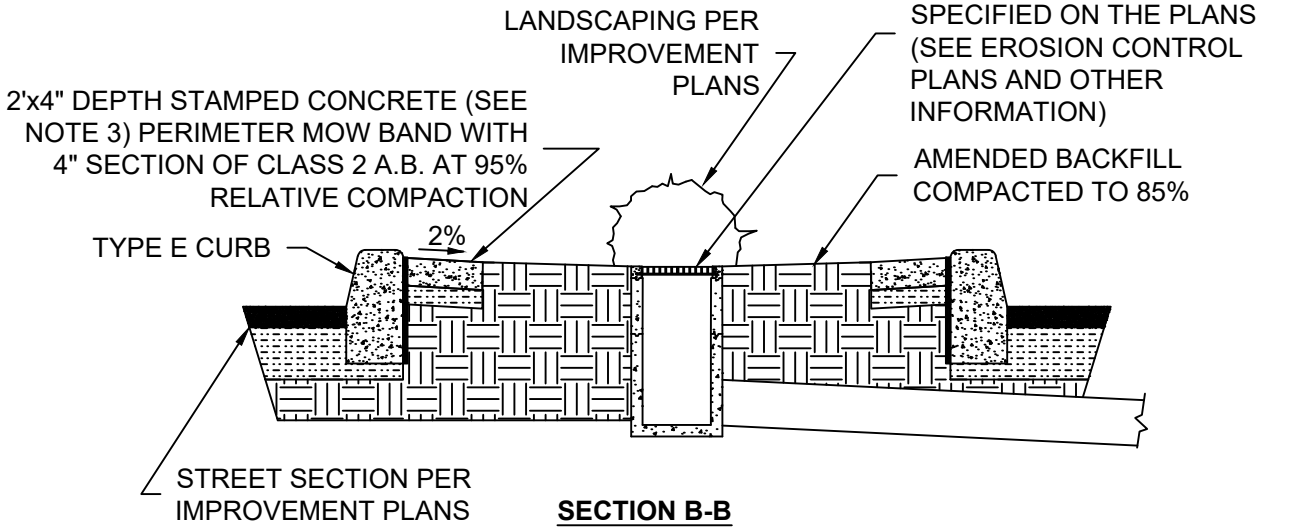
1. USE CITY STANDARD CONCRETE.
2. ALL STEEL PIPE AND PLATES SHALL COMPLY WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC).
3. ACCESS GATE SHALL BE HOT-DIP GALVANIZED.
4. ALL WELDS SHALL BE FULL PENETRATION UNLESS SPECIFIED OTHERWISE.

3330	ACCESS GATE	APPROVED: MARCH 2022	CITY OF DIXON ENGINEERING STANDARD DETAIL





SECTION A-A

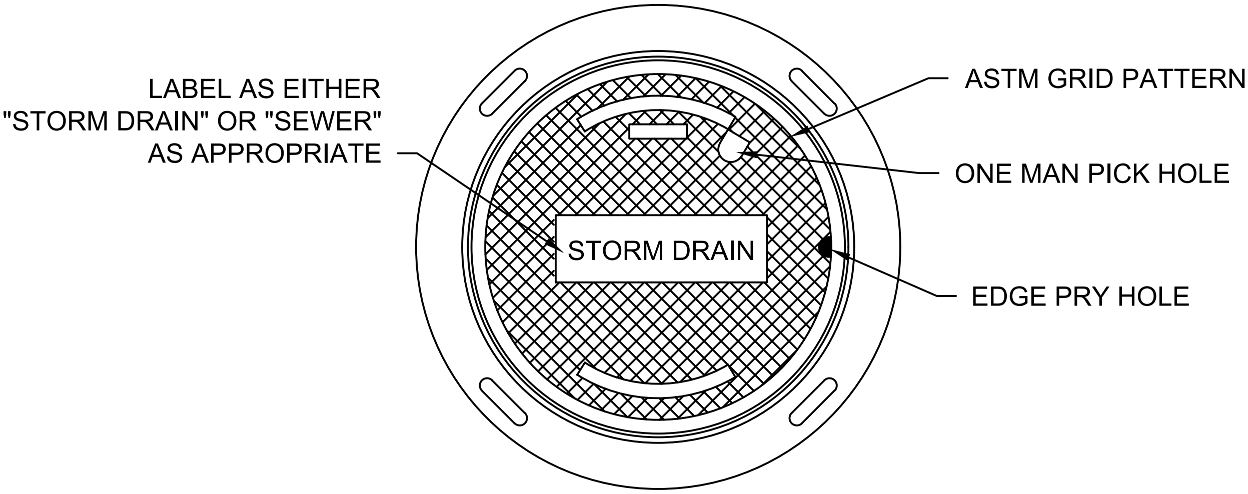


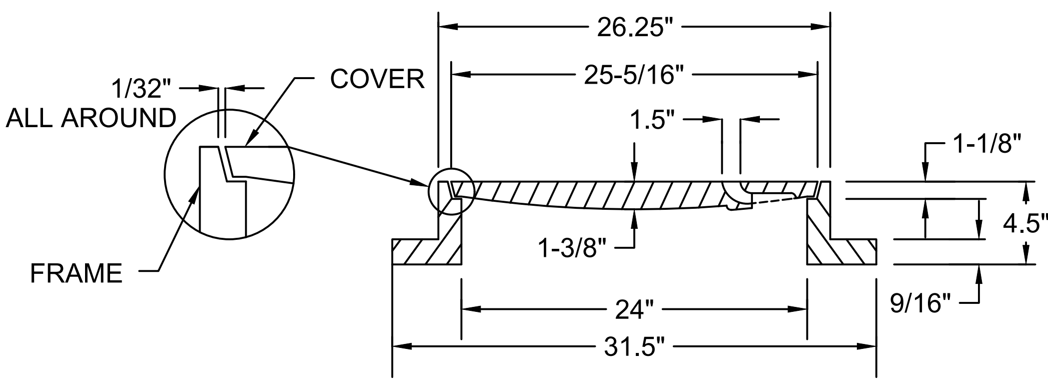
SECTION B-B

NOTES:

1. USE CITY STANDARD CONCRETE.
2. 6"x 6"x 10 GAUGE WIRE REINFORCEMENT REQUIRED FOR STAMPED CONCRETE.
3. 40 MIL. WATER STOP SHEET "DEEP ROOT" #WB24 OR APPROVED EQUAL INSTALL WATER STOP BELOW MOW BAND BY APPLYING ADHESIVE BETWEEN CURB AND WATER STOP. WATER STOP SHALL BE MINIMUM 24" DEPTH UNLESS SPECIFIED IN THE PLANS OR SPECIAL PROVISIONS/ SPECIFICATIONS.

CITY OF DIXON ENGINEERING STANDARD DETAIL	REGISTERED PROFESSIONAL ENGINEER DEBORAH A. BARRETT C 54 CIVIL STATE OF CALIFORNIA APPROVED: MARCH 2022	MEDIAN ISLAND	3340

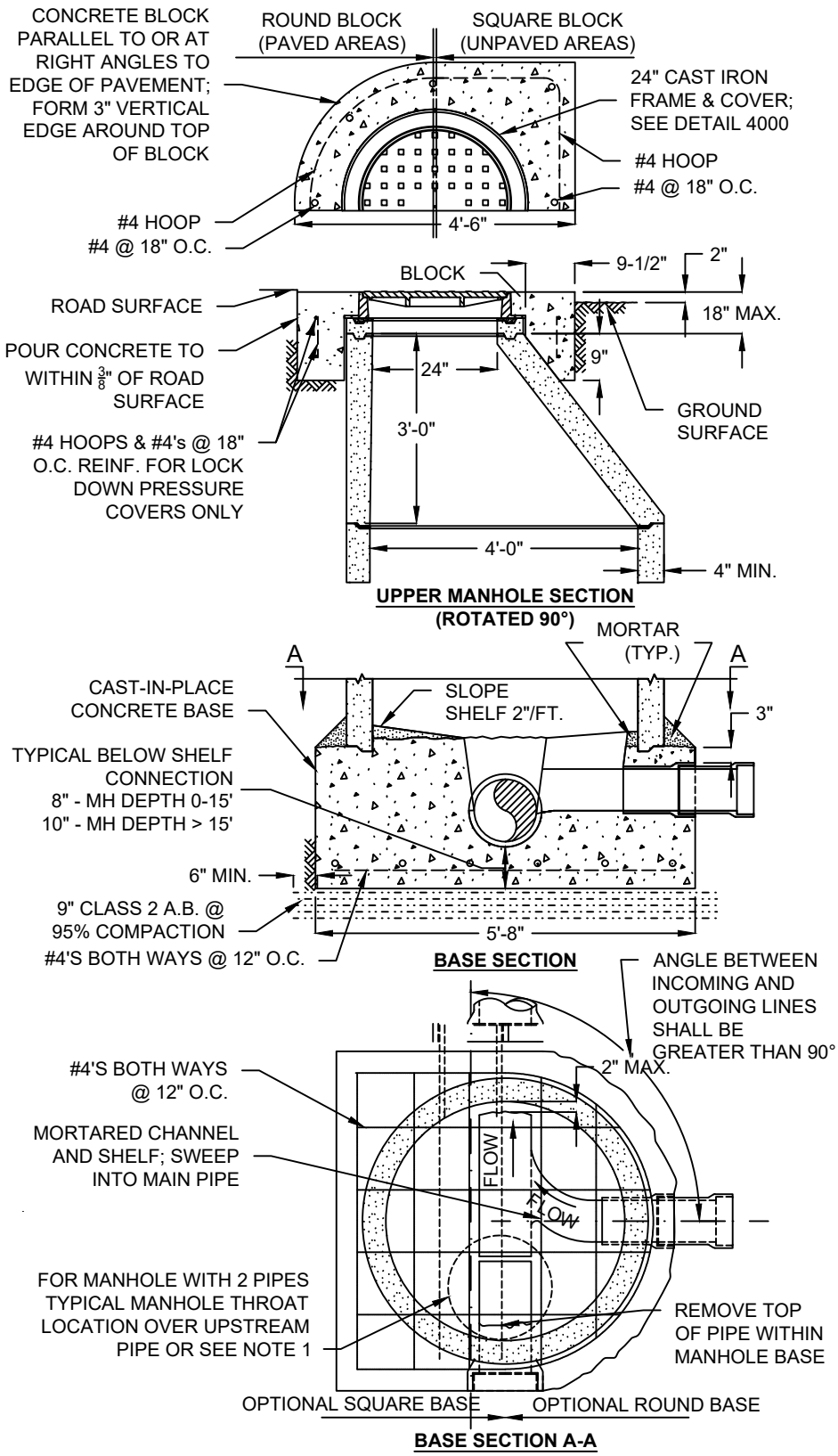




NOTES:

1. FRAME AND COVER FOR STORM DRAIN OR SEWER SHALL BE DESIGNED FOR H-20 HIGHWAY LOADING.
2. COVERS TO HAVE PICK HOLE AND EDGE PRY HOLE.
3. FRAME AND COVER TO BE SET 3/8" BELOW ROADWAY FINISH ELEVATION. SEE DETAIL 4010, 4020, 4030, 4040 OR 4500 FOR INSTALLATION DETAILS.
4. IN AREAS SUBJECT TO FLOODING, LOCKING/ BOLTED COVERS SHALL BE USED AT THE DISCRETION OF THE CITY ENGINEER.

CITY OF DIXON ENGINEERING STANDARD DETAIL	APPROVED: MARCH 2022	MANHOLE FRAME & COVER	4000



NOTES:

1. MANHOLES WITH ONE OR MORE SIDE SEWER SHALL HAVE CONCENTRIC CONES

2. LAY PIPE THRU MANHOLE WHEN POSSIBLE OR FORM CHANNEL TO MAINTAIN PIPE SECTION. SEWER PIPES ENTERING OR LEAVING THE MANHHOLE BASE SHALL HAVE A STANDARD JOINT LOCATED BETWEEN 12" AND 24" OF THE BASE.

3. ALL REINFORCEMENT STEEL SHALL BE 3" CLEAR.

4. BACKFILL SHALL BE PER DETAIL 3280 OR 3290.

5. IN AREAS SUBJECT TO FLOODING, LOCKING/ BOLTED COVERS SHALL BE USED.

6. COAT SANITARY SEWER MANHOLE WITH APPROVED H2S PROTECTIVE COATING. WATERPROOFING TREATMENT (XYPEX OR EQUAL) MAY BE USED IN LIEU OF H2S PROTECTION COATING AT THE DISCRETION OF THE CITY ENGINEER.

7. ALL JOINTS SHALL BE GROUTED BOTH INSIDE AND OUTSIDE.

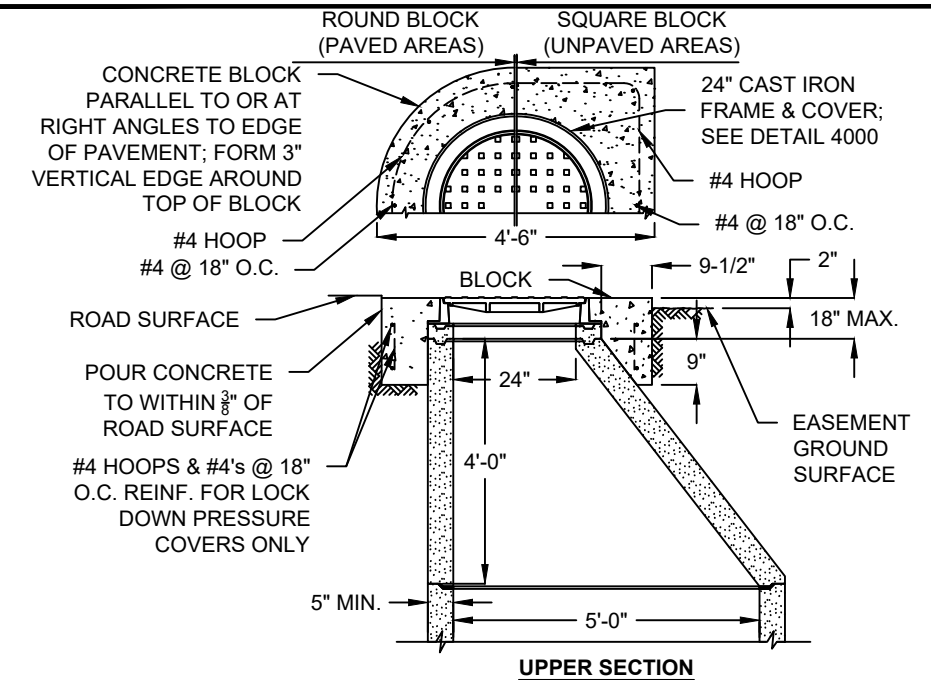
8. PIPE JOINT SHALL BE LOCATED BETWEEN 1' TO 2' FROM MANHOLE.

9. NO WYE OR TEE FITTING SHALL BE INSTALLED WITHIN 12" OF THE STRUCTURE. AN APPROVED REPAIR COUPLING MAY BE USED BETWEEN THE STRUCTURE AND THE NEXT DOWNSTREAM PIPE WHEN WYE OR TEE FITTING IS BEING INSTALLED.

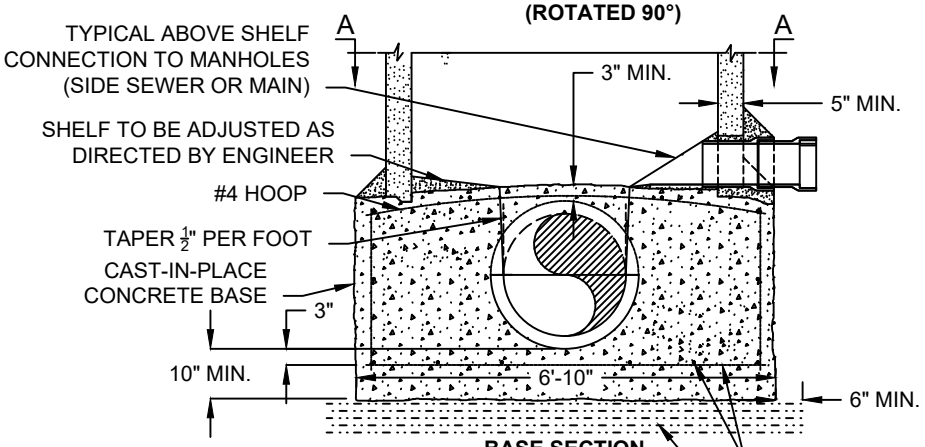
10. SLOPE BLOCK TO DRAIN AWAY FROM MANHOLE RIM (2% MAX.).

11. RISER SECTIONS, CONES AND ADJUSTING RINGS SHALL CONFORM TO ASTM C-479

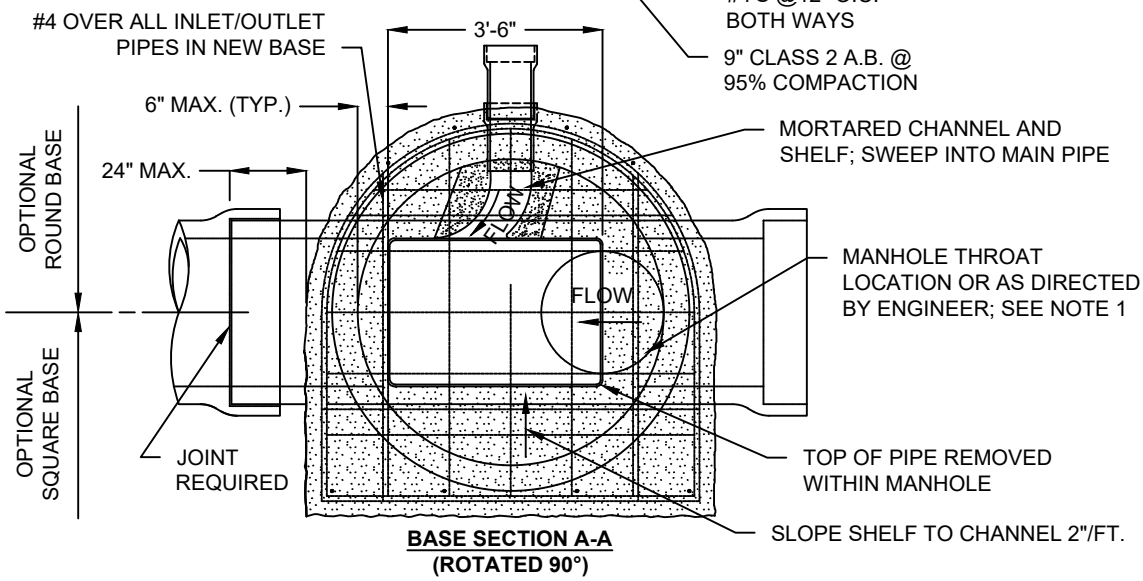
4010	MANHOLE FOR PIPES LESS THAN 24"	APPROVED: MARCH 2022	CITY OF DIXON ENGINEERING STANDARD DETAIL



UPPER SECTION
(ROTATED 90°)



BASE SECTION



BASE SECTION A-A
(ROTATED 90°)

#4'S @12" O.C. BOTH WAYS

9" CLASS 2 A.B. @ 95% COMPACTION

NOTES:

1. MANHOLES WITH ONE OR MORE SIDE SEWER SHALL HAVE CONCENTRIC CONES

2. LAY PIPE THRU MANHOLE WHEN POSSIBLE OR FORM CHANNEL TO MAINTAIN PIPE SECTION. SEWER PIPES ENTERING OR LEAVING THE MANHHOLE BASE SHALL HAVE A STANDARD JOINT LOCATED WITHIN 24" OF THE BASE.

3. ALL REINFORCEMENT STEEL SHALL BE 3" CLEAR.

4. BACKFILL SHALL BE PER DETAIL 3280 OR 3290.

5. IN AREAS SUBJECT TO FLOODING, LOCKING/ BOLTED COVERS SHALL BE USED.

6. COAT SANITARY SEWER MANHOLE WITH APPROVED H2S PROTECTIVE COATING. WATERPROOFING TREATMENT (XYPEX OR EQUAL) MAY BE USED IN LIEU OF H2S PROTECTION COATING AT THE DISCRETION OF THE CITY ENGINEER.

7. ALL JOINTS SHALL BE GROUTED BOTH INSIDE AND OUTSIDE.

8. SLOPE BLOCK OR AC TO DRAIN AWAY FROM MANHOLE RIM (2% MAX.)

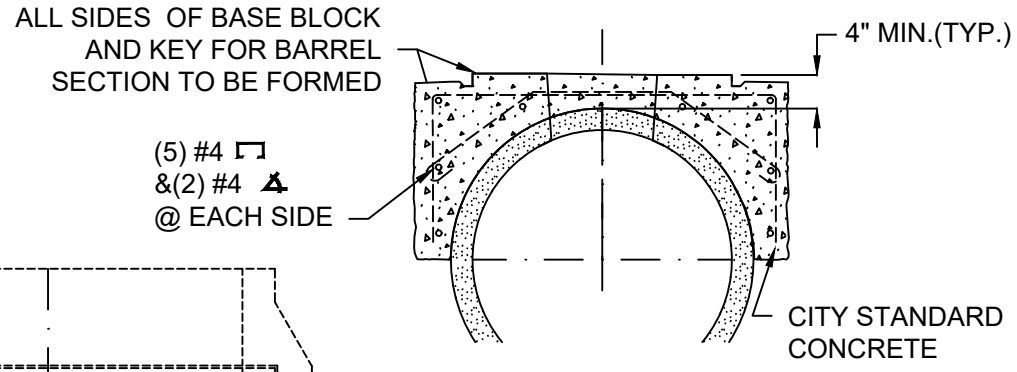
9. RISER SECTIONS, CONES AND ADJUSTING RINGS SHALL CONFORM TO ASTM C-479

CITY OF DIXON
ENGINEERING
STANDARD DETAIL

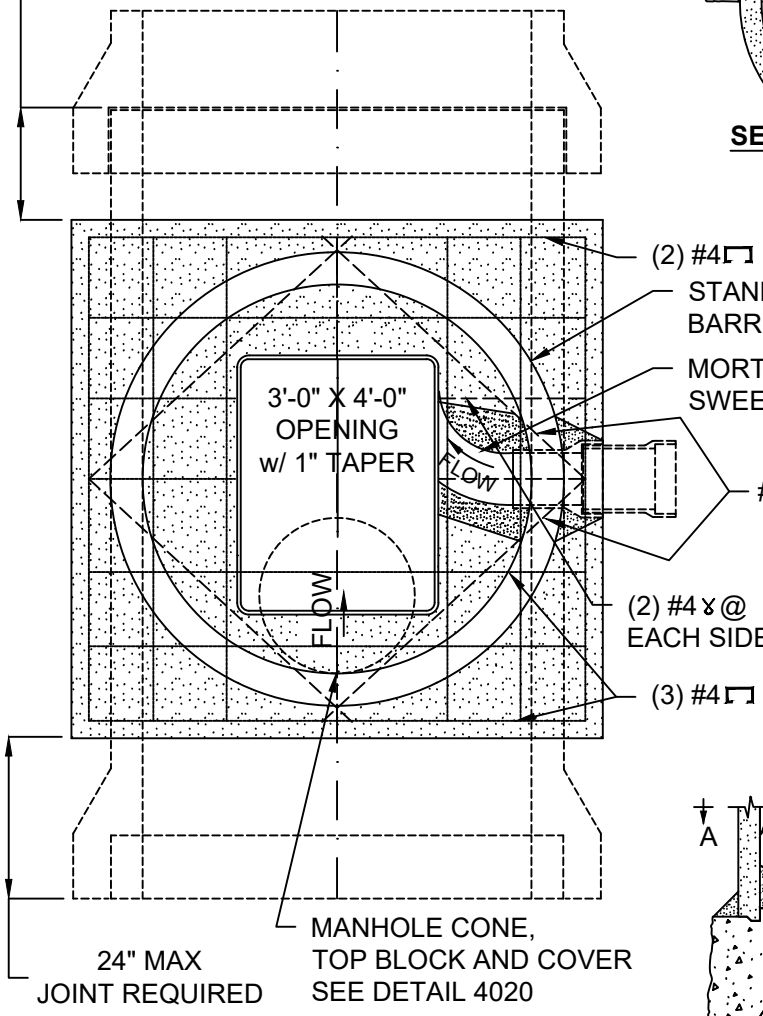
APPROVED: MARCH 2022

MANHOLE FOR PIPES 24" TO 48" DIAMETER

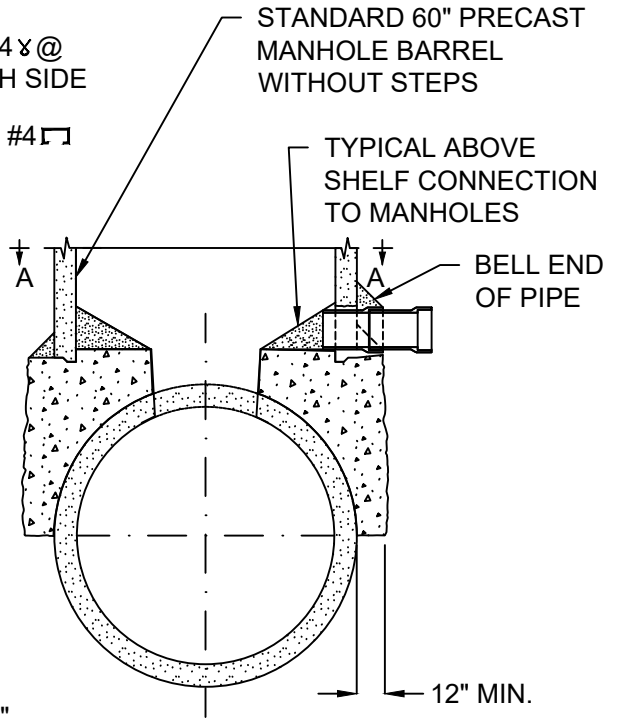
4020



SECTION - BASE BLOCK



BASE SECTION A-A

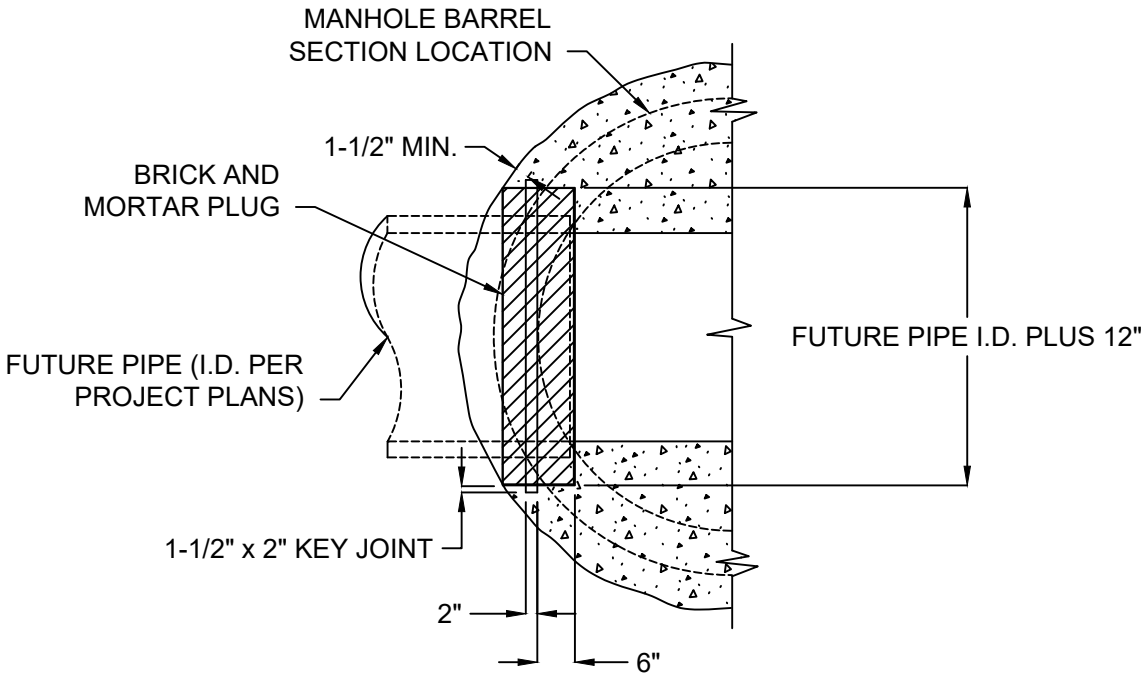


SECTION - TYPICAL

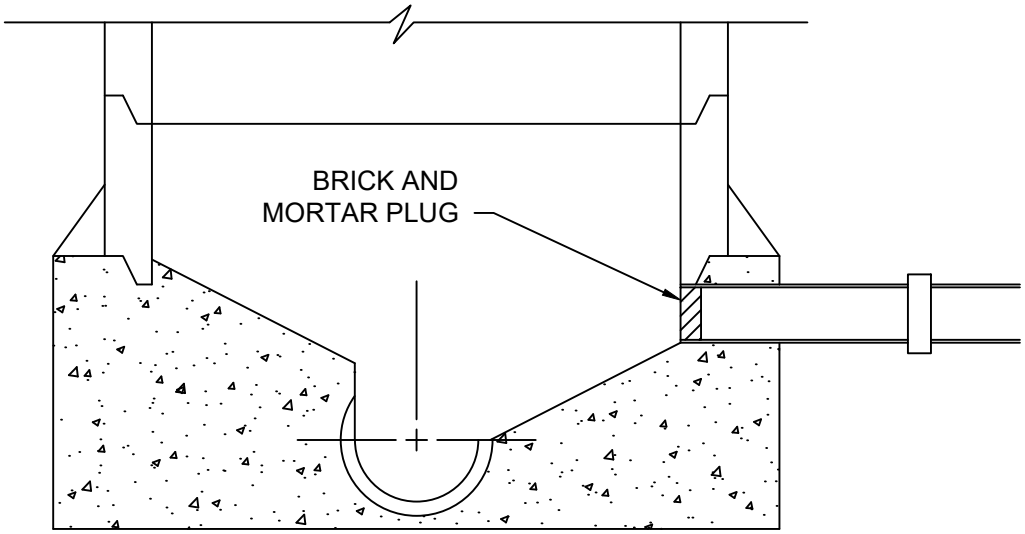
NOTE:

1. ALL STEEL REINFORCING SHALL BE #4 WITH 2" CLEAR MINIMUM CONCRETE COVER.
2. BACKFILL SHALL BE PER DETAIL 3230 OR 3250.

4030	SADDLE MANHOLE FOR PIPES LARGER THAN 48"	APPROVED: MARCH 2022	CITY OF DIXON ENGINEERING STANDARD DETAIL

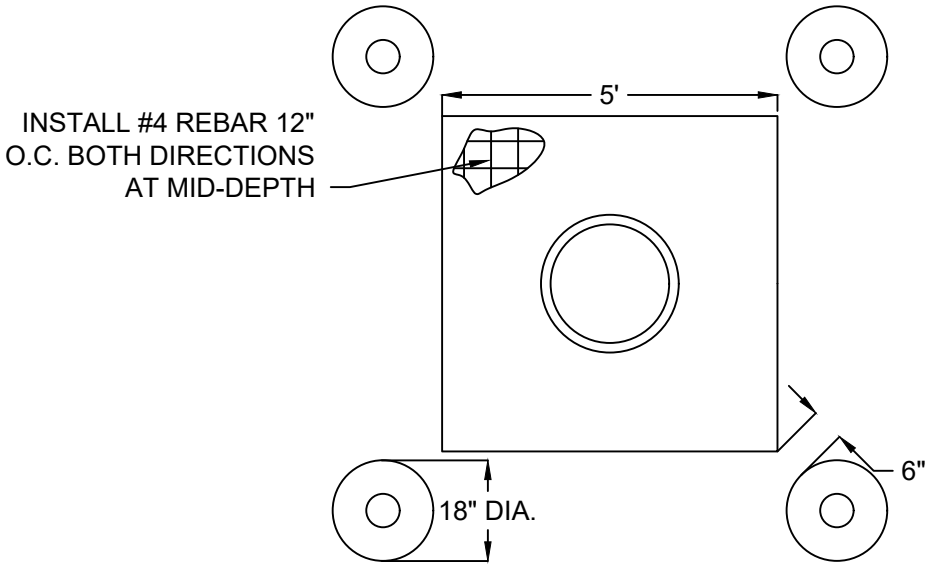


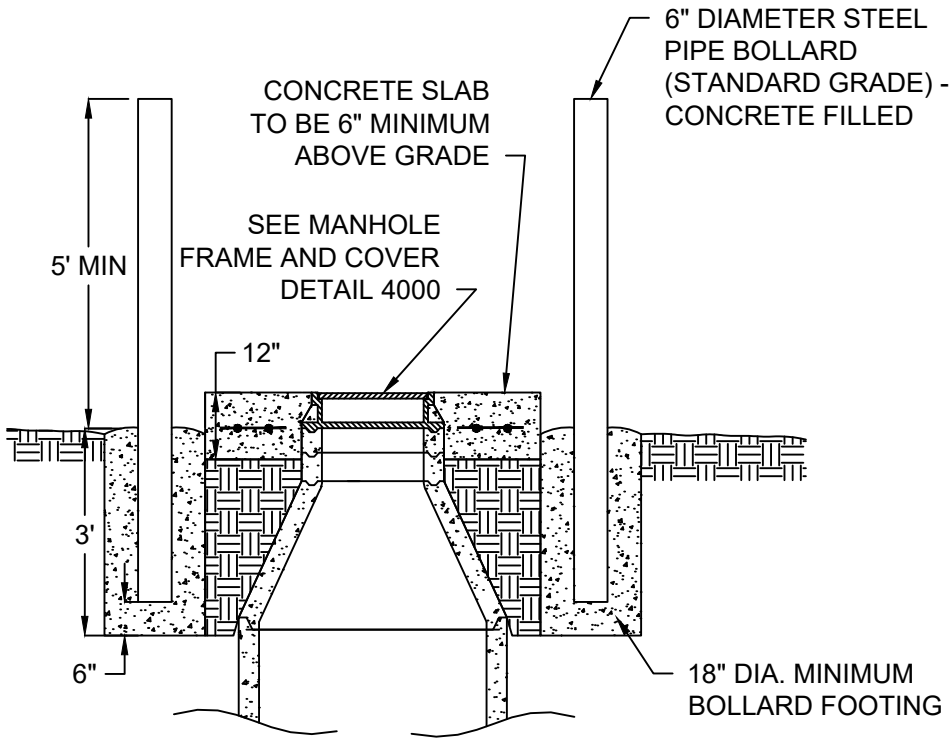
PLAN VIEW



PROFILE VIEW

CITY OF DIXON ENGINEERING STANDARD DETAIL	APPROVED: MARCH 2022	MANHOLE PLUG FOR FUTURE PIPE	4040

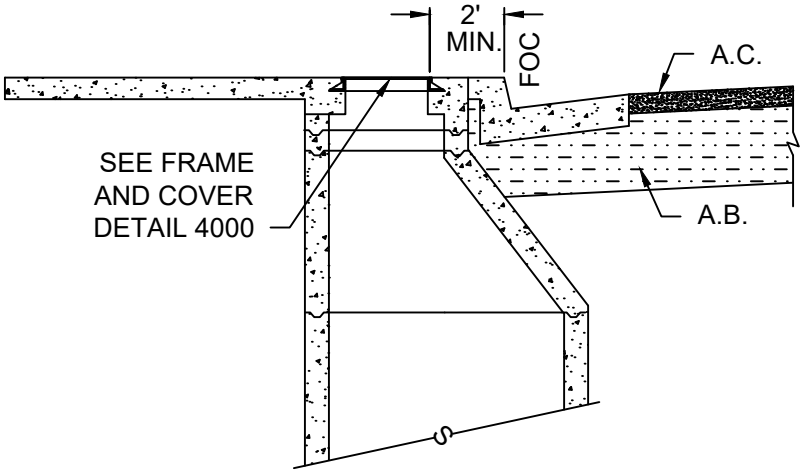


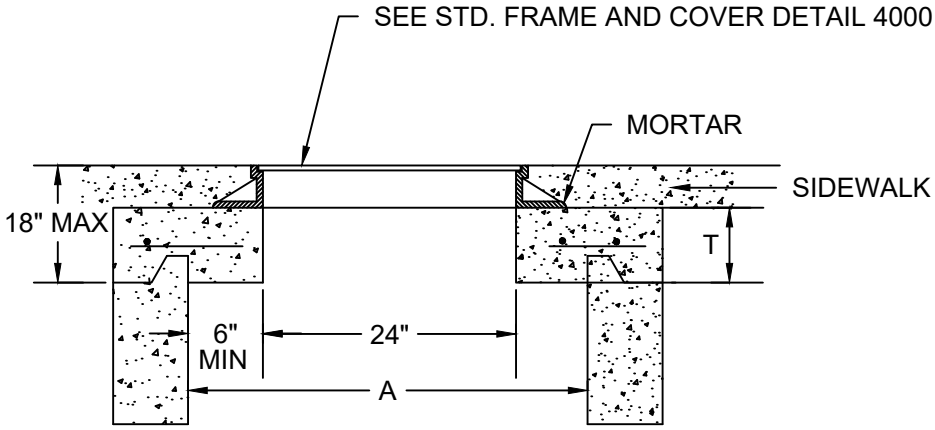


NOTES:

1. USE CITY STANDARD CONCRETE.
2. ALL STEEL PIPE AND PLATES SHALL COMPLY WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC).
3. STEEL PIPE SHALL HAVE TWO COATS OF CORROSION RESISTANT PAINT.

4050	UNIMPROVED AREA MANHOLE FRAME & BOLLARDS	APPROVED: MARCH 2022	CITY OF DIXON ENGINEERING STANDARD DETAIL





FLAT SLAB SHALL BE USED WHEN DEPTH
DOES NOT PERMIT USE OF TAPER UNIT

TABLE OF DIMENSIONS

M.H.	A	T MIN
48"	48"	6"
60"	60"	8"
72"	72"	8"

RISER SECTIONS, CONES AND ADJUSTING RINGS SHALL CONFORM TO ASTM DESIGNATION C-478

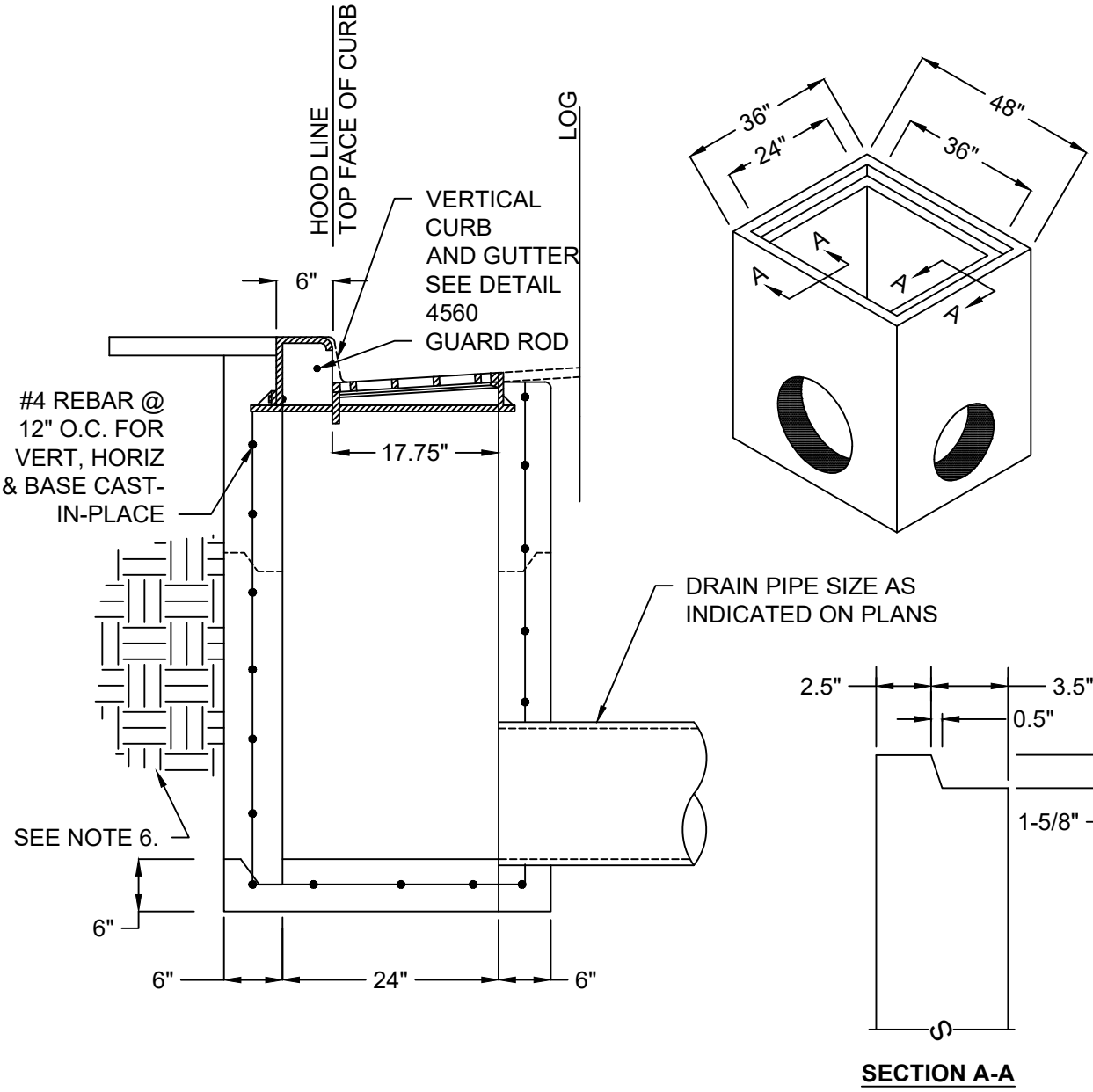
FRAME SHALL BE SECURED TO RISER OR FLAT SLAB TOP WITH CEMENT MORTAR

CITY OF DIXON
ENGINEERING
STANDARD DETAIL

APPROVED: MARCH 2022

STORM DRAIN MANHOLE INSTALLATION IN SIDEWALK

4500

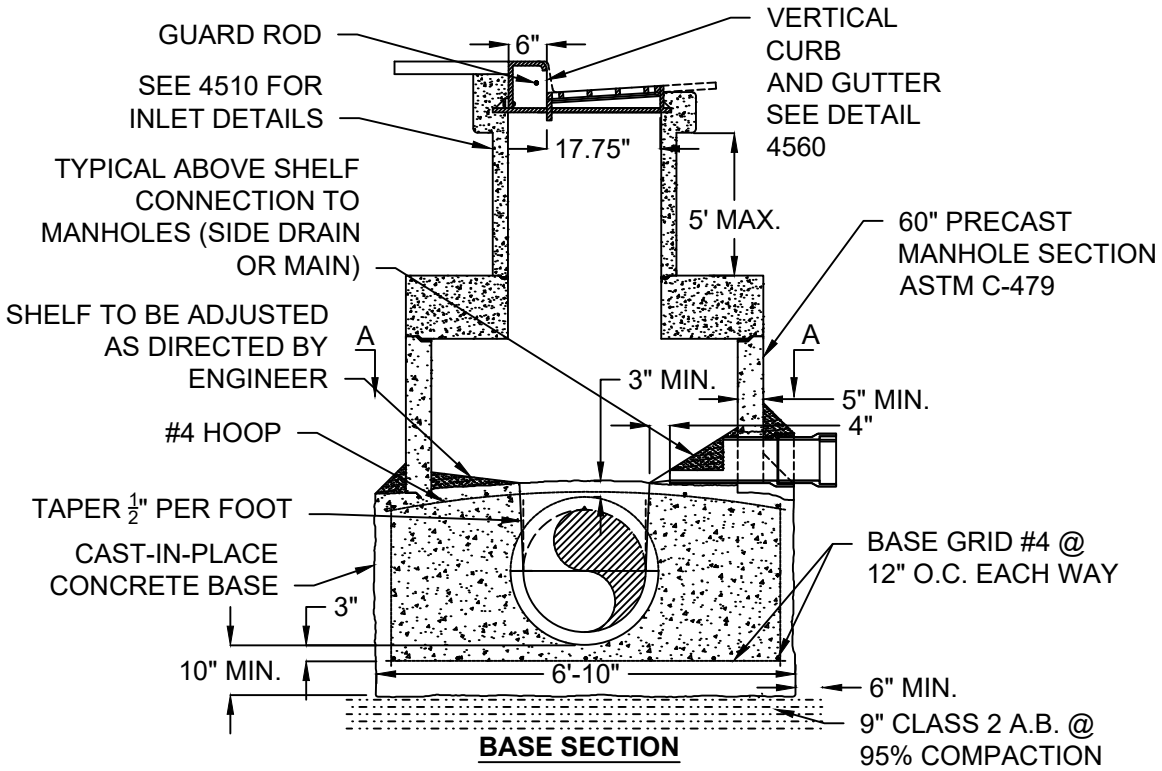


SECTION A-A

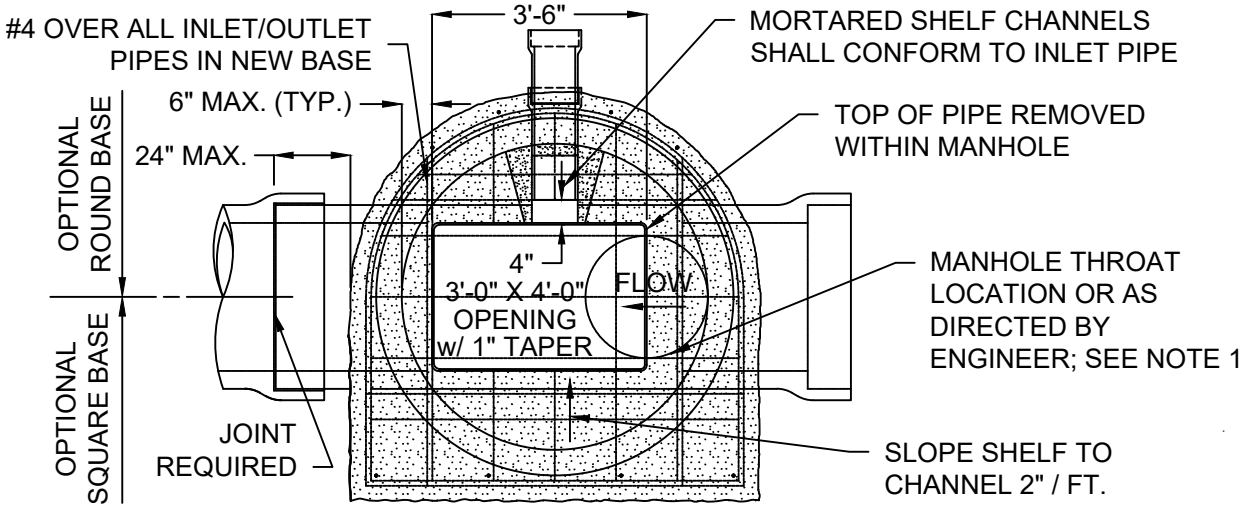
NOTES:

1. BASE MAY BE CAST-IN-PLACE OR PRECAST CONSTRUCTION.
2. PRECAST CATCH BASIN BASE SHALL BE JENSEN PRECAST MODEL #2436 OR APPROVED EQUAL
3. CAST-IN-PLACE WALLS AND BASE SHALL BE REINFORCED WITH #4 REBAR @ 12" O.C. WALLS SECTION SHALL IN NO CASE EXCEED 10" IN WIDTH.
4. CATCH BASINS SHALL HAVE A GUARD ROD AND THE INLET FRAME AND HOOD SHALL BE BOLTED TOGETHER ALLOWING FOR A ONE PIECE INSTALLATION.
5. GRATES SHALL BE CONSTRUCTED TO RECEIVE WATER EITHER FROM ONE OR TWO DIRECTIONS DEPENDING ON GUTTER FLOW LINE DIRECTION.
6. 95% RELATIVE COMPACTION FOR APPROVED BACKFILL SHALL BE INSTALLED AROUND PERIMETER OF BASIN WHEN PRECAST IS USED.

4510	STORM DRAIN CURB INLET TYPE A PIPES < 24"	APPROVED: MARCH 2022	CITY OF DIXON ENGINEERING STANDARD DETAIL



BASE SECTION

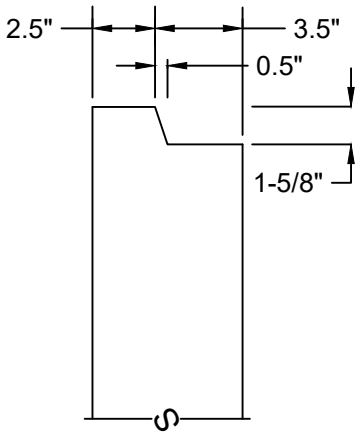


BASE SECTION A-A
(ROTATED 90°)

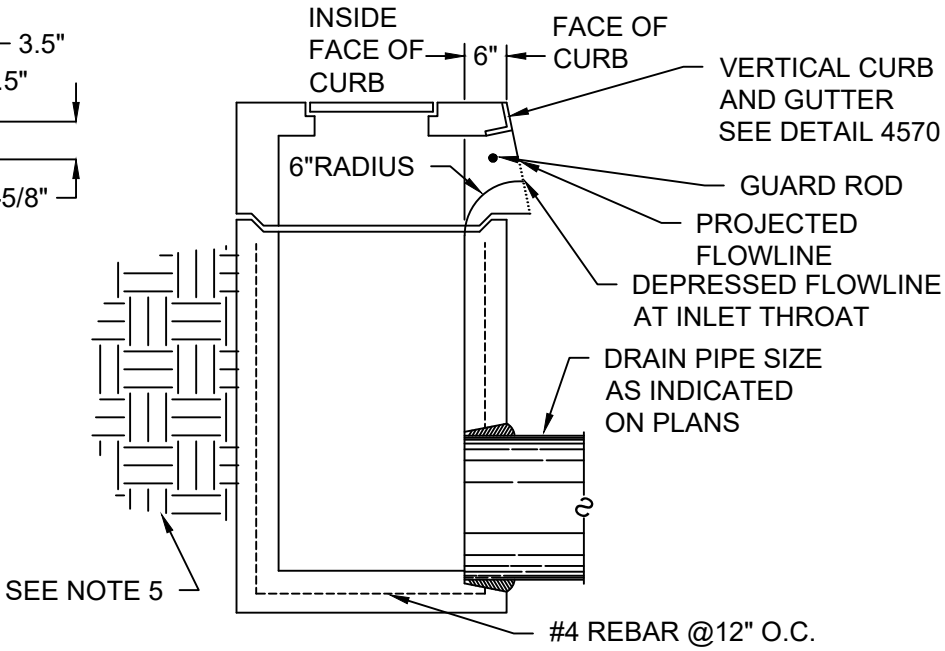
NOTES:

1. BASE SHALL BE CAST-IN-PLACE CONSTRUCTION.
2. CATCH BASINS SHALL HAVE A GUARD ROD AND THE INLET FRAME AND HOOD SHALL BE BOLTED TOGETHER ALLOWING FOR A ONE PIECE INSTALLATION.
3. GRATES SHALL BE CONSTRUCTED TO RECEIVE WATER EITHER FROM ONE OR TWO DIRECTIONS DEPENDING ON GUTTER FLOW LINE DIRECTION.

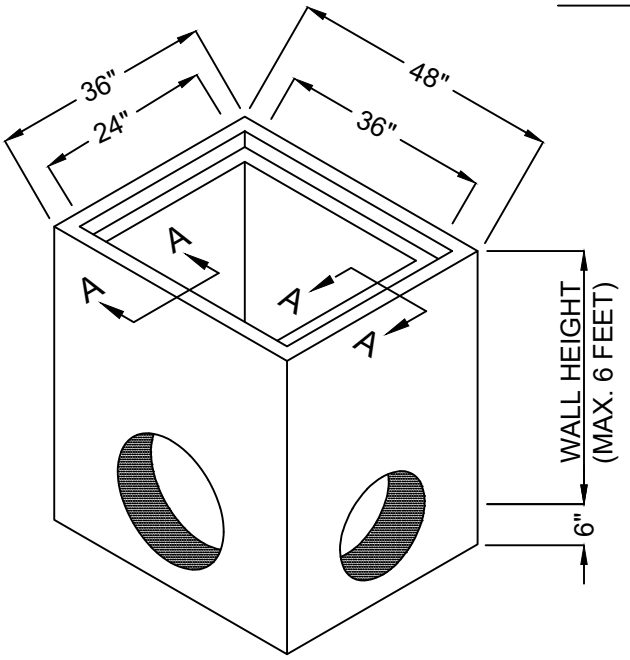
CITY OF DIXON ENGINEERING STANDARD DETAIL	APPROVED: MARCH 2022	STORM DRAIN CURB INLET TYPE A PIPES ≥ 24"	4520



SECTION A-A



TYPICAL SECTION

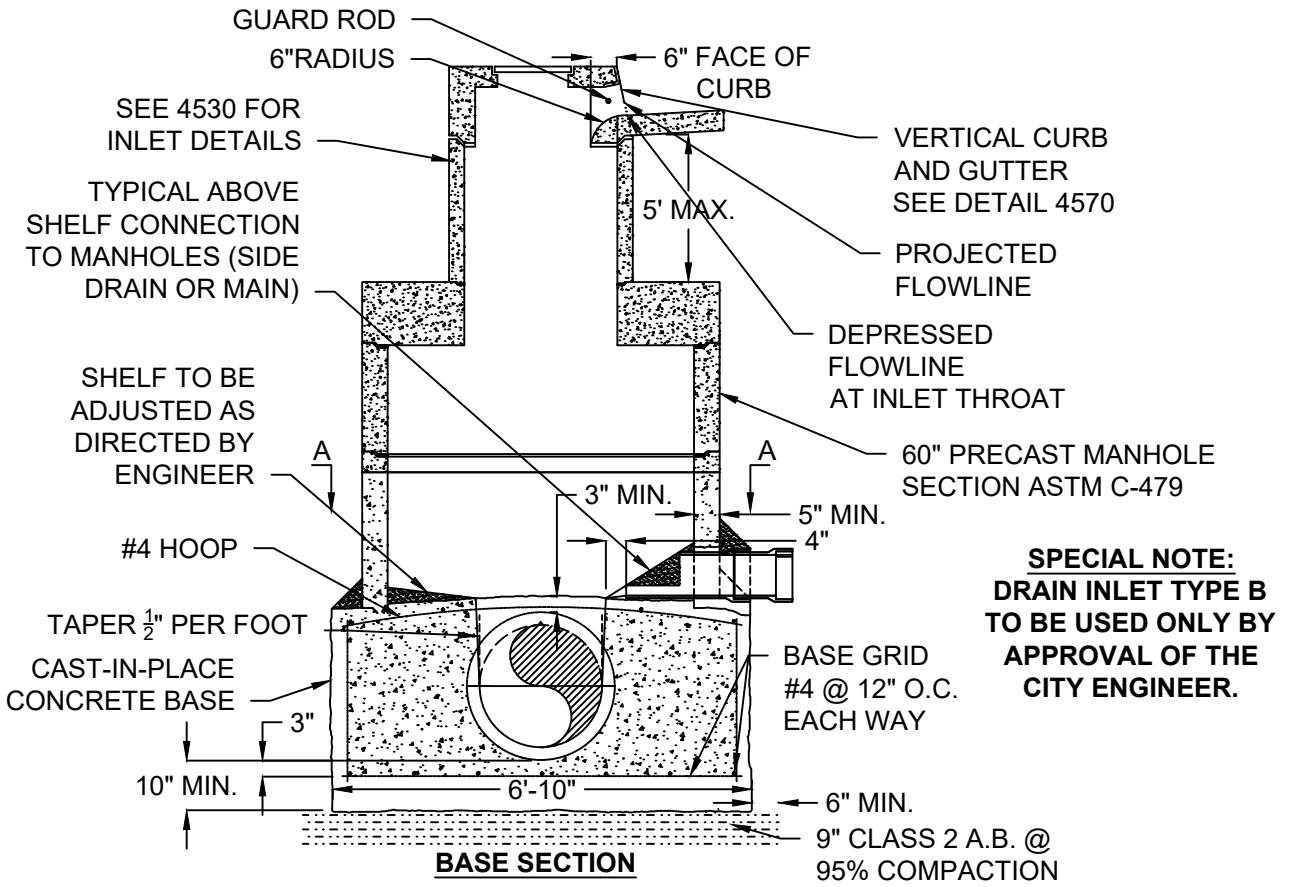


SPECIAL NOTE:
DRAIN INLET TYPE B TO BE USED ONLY BY APPROVAL OF THE CITY ENGINEER.

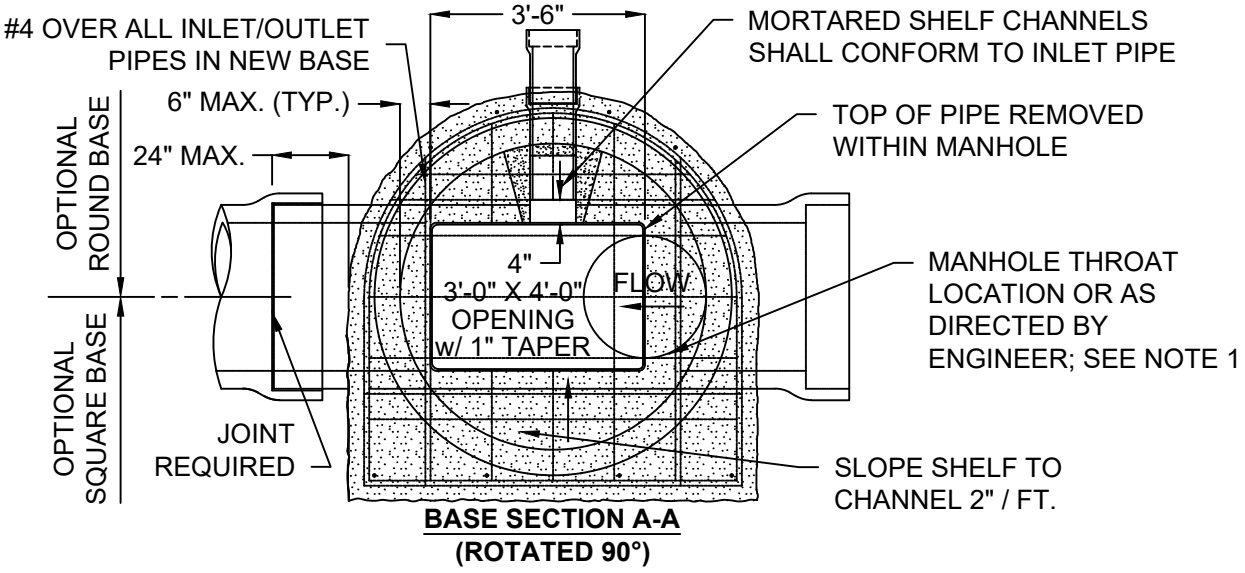
NOTES:

1. BASE MAY BE CAST-IN-PLACE OR PRECAST CONSTRUCTION.
2. CAST-IN-PLACE SHALL INCLUDE #4 REBAR @ 12" ON CENTER BOTH DIRECTION FOR ALL VERTICAL WALLS AND BASE CONSTRUCTION. WALL SECTION SHALL NOT EXCEED 10" IN WIDTH.
3. 95% RELATIVE COMPACTION FOR APPROVED BACKFILL SHALL INSTALLED AROUND PERIMETER OF BASIN WHEN PRECAST IS USED.

4530	STORM DRAIN CURB INLET TYPE B PIPES < 24"	APPROVED: MARCH 2022	CITY OF DIXON ENGINEERING STANDARD DETAIL



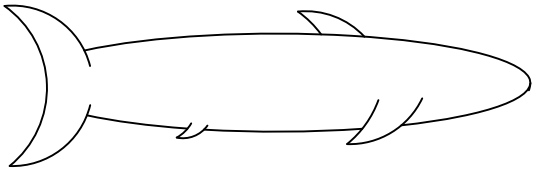
SPECIAL NOTE:
DRAIN INLET TYPE B TO BE USED ONLY BY APPROVAL OF THE CITY ENGINEER.

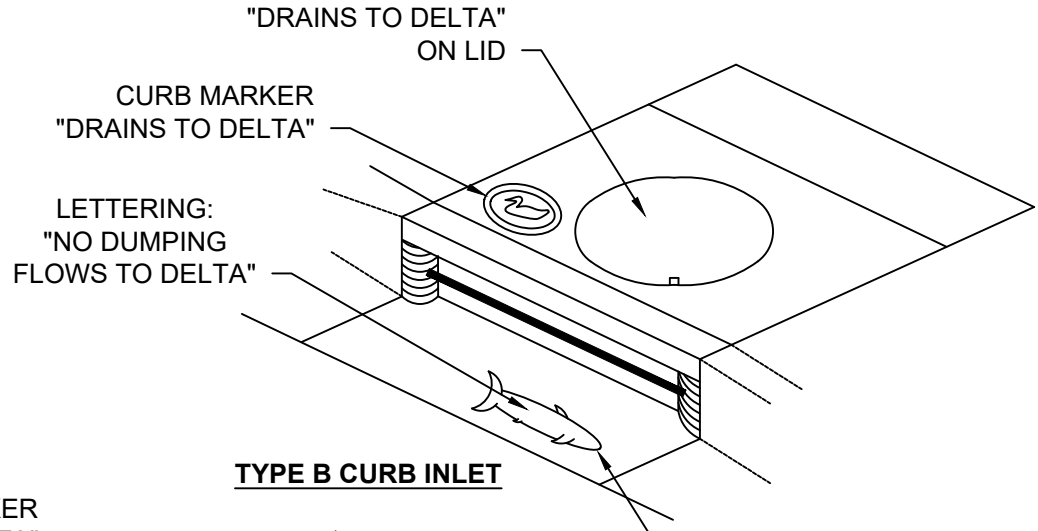


NOTES:
1. BASE SHALL BE CAST-IN-PLACE CONSTRUCTION.

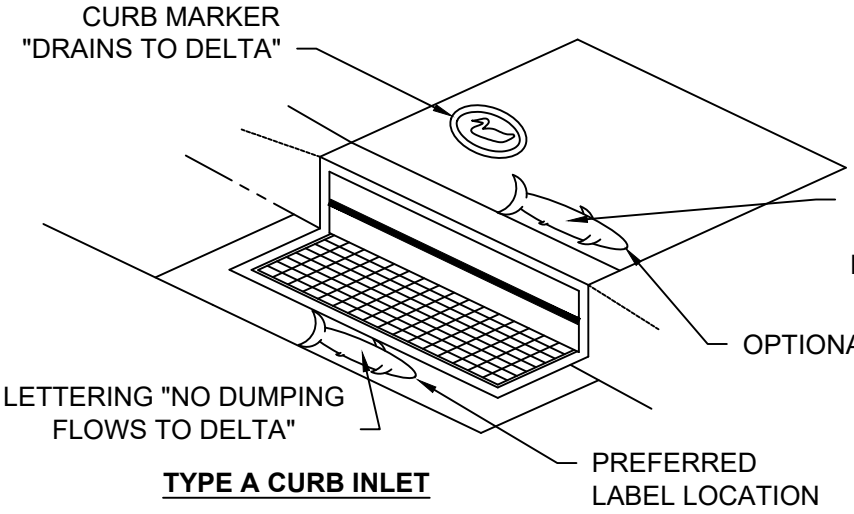
CITY OF DIXON ENGINEERING STANDARD DETAIL	APPROVED: MARCH 2022	STORM DRAIN CURB INLET TYPE B PIPES > 24"	4540

NO DUMPING
FLOWS TO DELTA





TYPE B CURB INLET



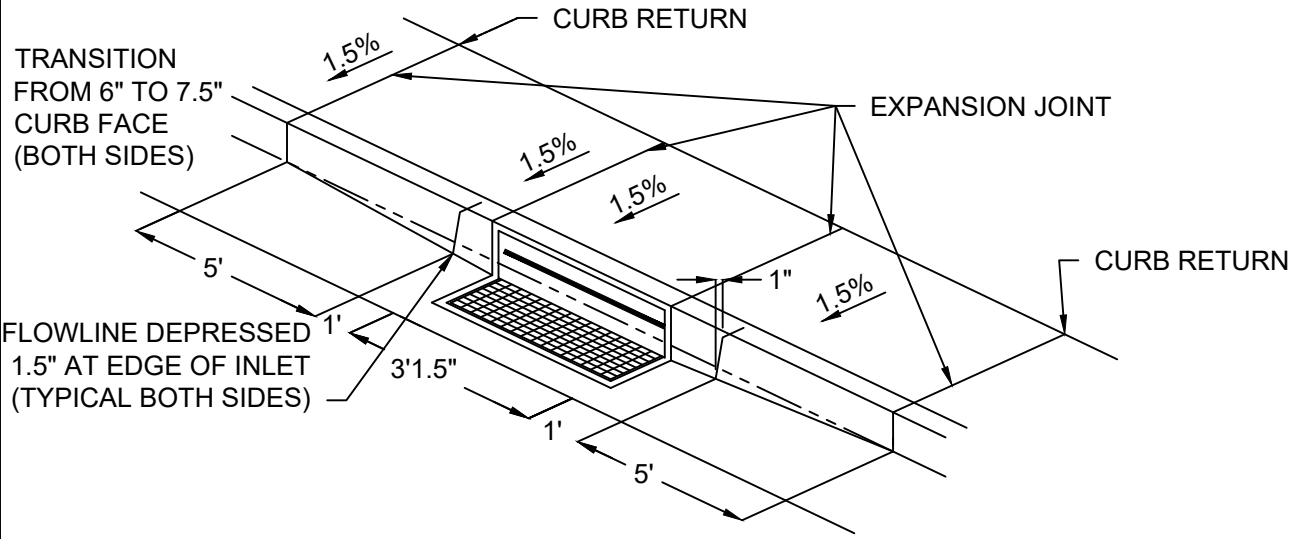
TYPE A CURB INLET

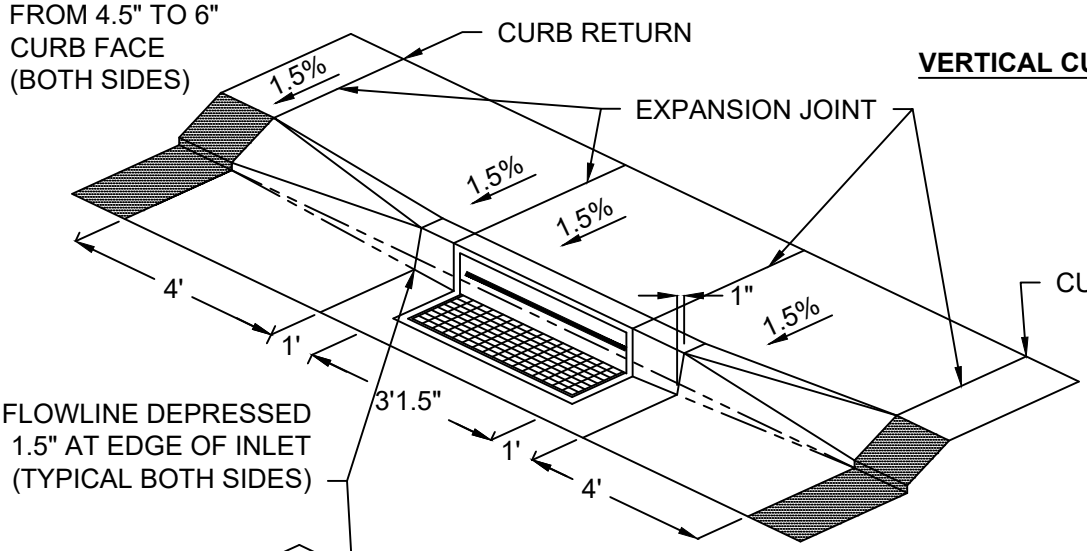
SPECIAL NOTE:
NEW CONSTRUCTION SHALL BE STAMPED IN CONCRETE

NOTES:

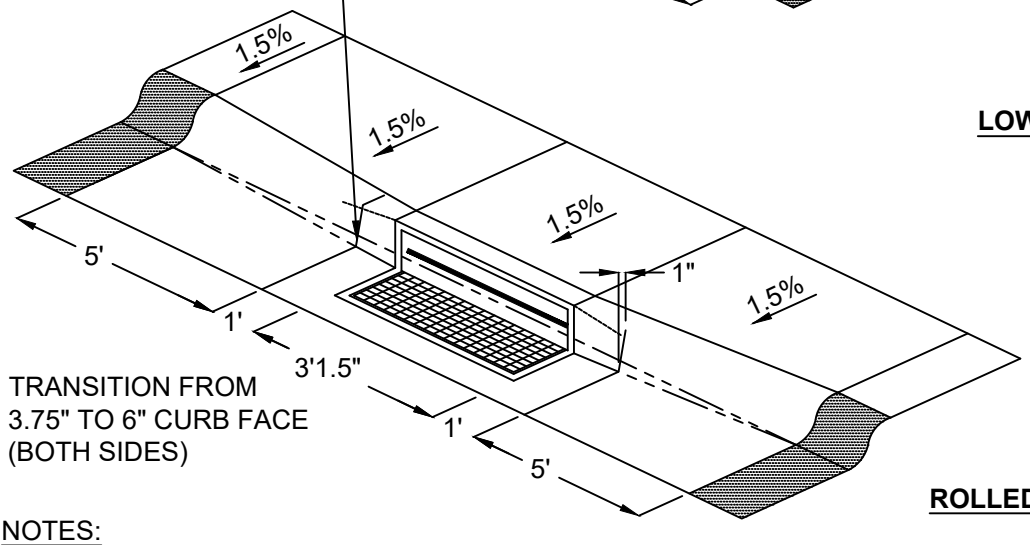
1. LETTERING SHALL BE $1\frac{1}{4}$" TO $1\frac{1}{2}$" IN HEIGHT. THE MESSAGE AND SYMBOL SHALL BE DEPRESSED $\frac{1}{8}$" TO $\frac{1}{4}$" INTO THE CONCRETE. THE FISH SYMBOL SHALL BE A MINIMUM OF 11" LONG AND $3\frac{1}{2}$" HIGH.
2. THE LABEL SHALL BE APPROVED BY THE CITY INSPECTOR PRIOR TO PLACEMENT.
3. THIS DETAIL SHALL APPLY TO ALL DRAIN INLET DESIGNS. WHERE THE SIDEWALK DOES NOT ADJOIN THE BACK OF CURB, THE NOTICE SHALL BE STAMPED INTO THE CONCRETE BEHIND THE DRAIN INLET. WHERE THE DRAIN INLET IS PLACED IN A "V" GUTTER WITHOUT A CURB INLET, THE NOTICE SHALL BE STAMPED ON ONE SIDE, PARALLEL TO THE INLET.
4. THE MESSAGE SHALL BE BLEMISH FREE AND LEGIBLE.

4550	"NO DUMPING" CURB INLET LABEL	APPROVED: MARCH 2022	CITY OF DIXON ENGINEERING STANDARD DETAIL





VERTICAL CURB



LOW-PROFILE CURB

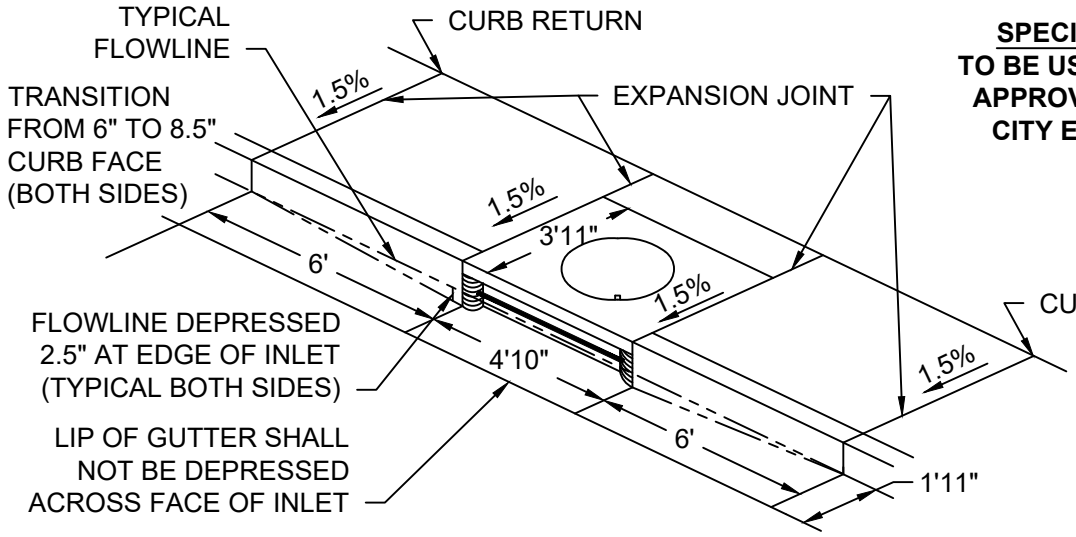
ROLLED CURB

NOTES:

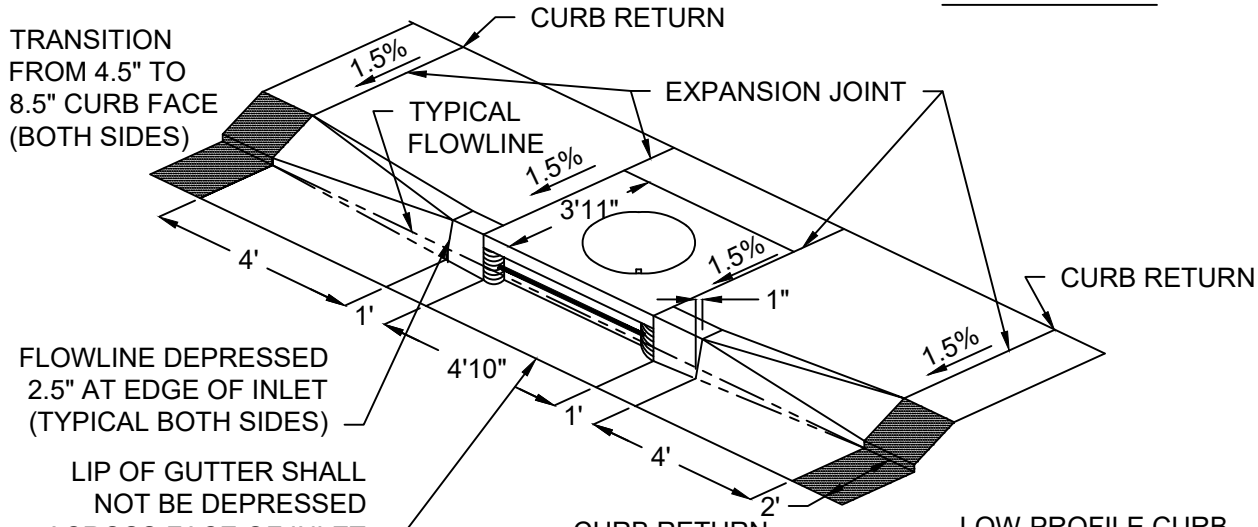
1. SEE DETAIL 3000, 3010, OR 3020 FOR SIDEWALK DETAILS.

CITY OF DIXON ENGINEERING STANDARD DETAIL	APPROVED: MARCH 2022	CURB INLET TYPE A	4560

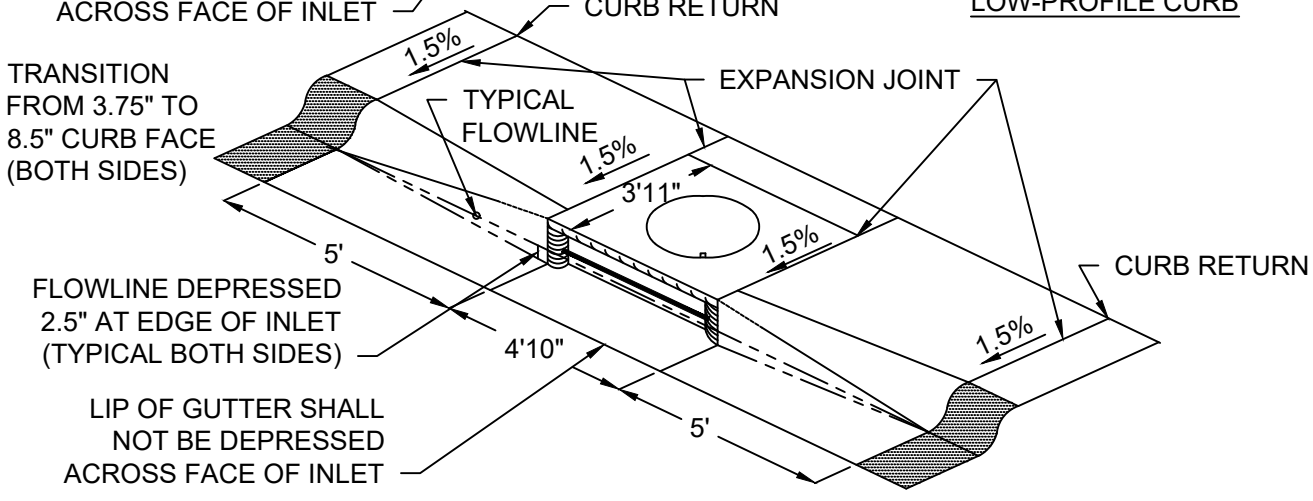
SPECIAL NOTE:
TO BE USED ONLY BY APPROVAL OF THE CITY ENGINEER.



VERTICAL CURB



LOW-PROFILE CURB

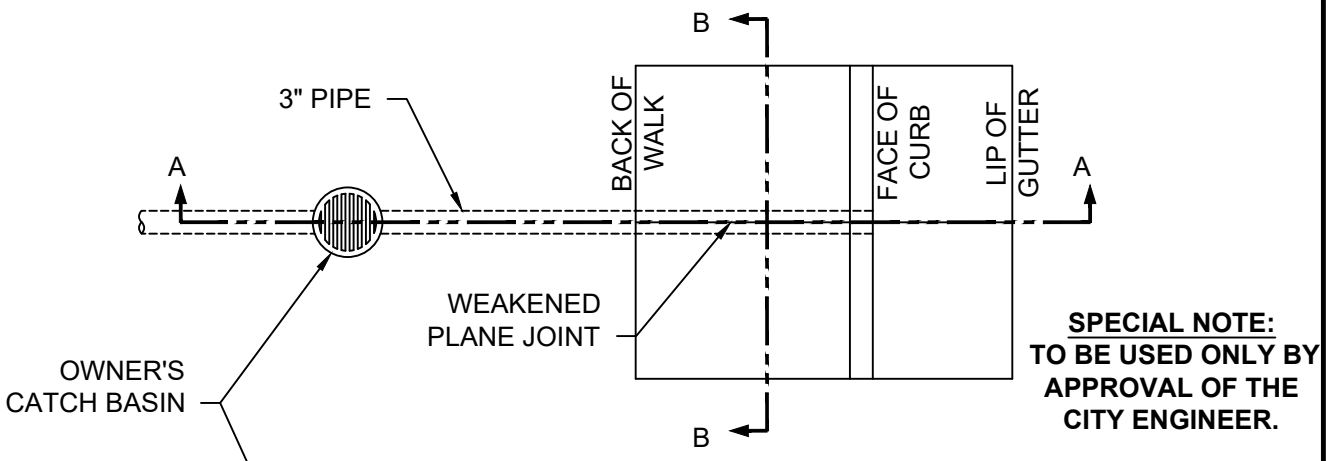


ROLLED CURB

NOTES:

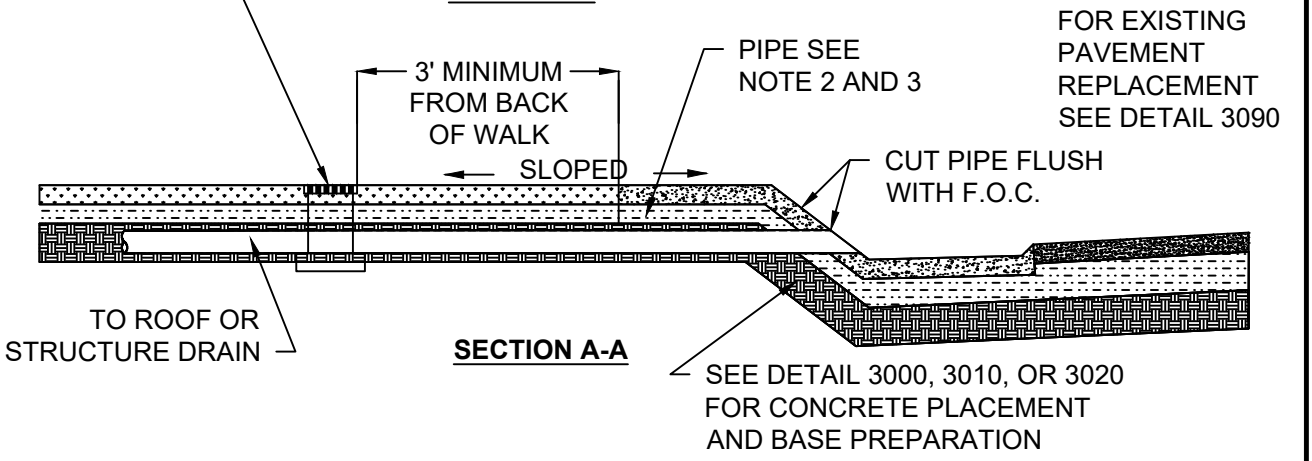
1. TYPE B CURB INLET SHALL HAVE STANDARD ANGLE PLATE NOSE.
2. SEE DETAIL 3000, 3010, OR 3020 FOR SIDEWALK DETAILS.

4570	CURB INLET TYPE B	APPROVED: MARCH 2022	CITY OF DIXON ENGINEERING STANDARD DETAIL

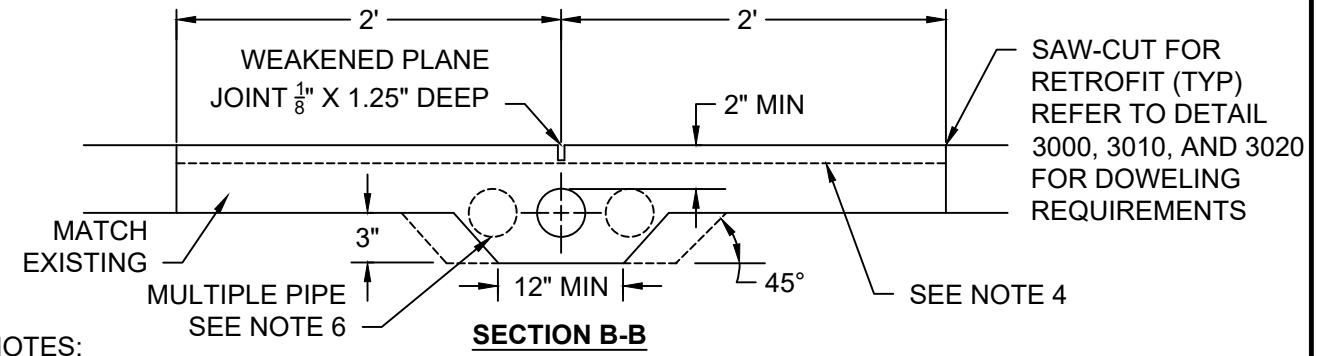


SPECIAL NOTE:
TO BE USED ONLY BY APPROVAL OF THE CITY ENGINEER.

PLAN VIEW



SECTION A-A

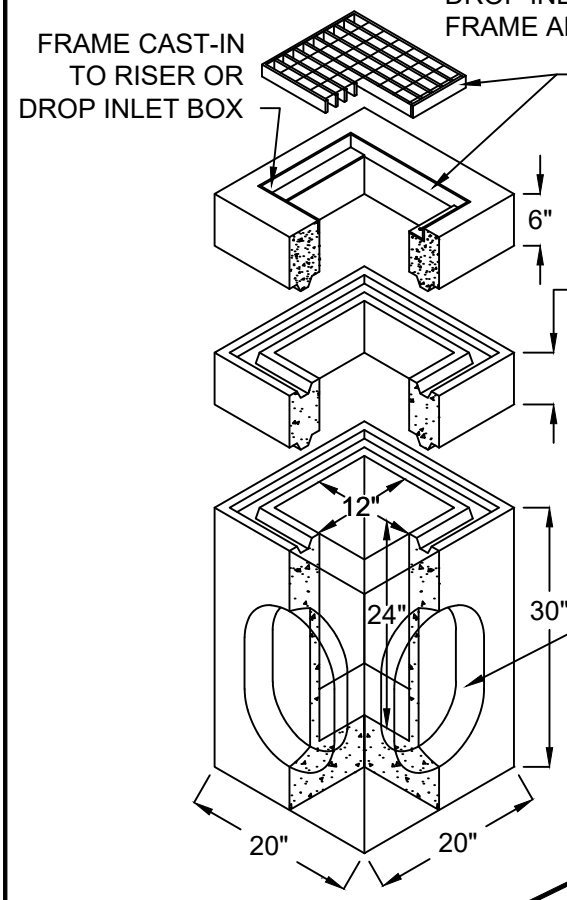


SECTION B-B

NOTES:

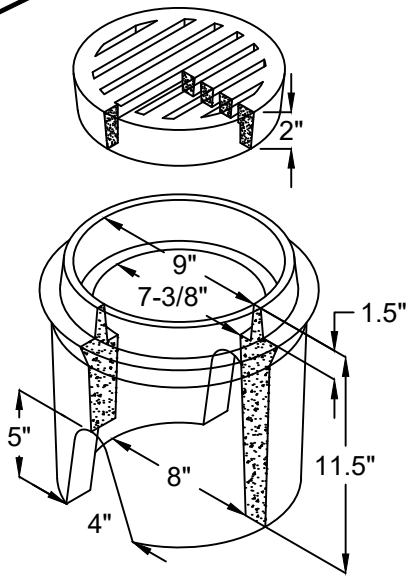
1. PRIVATE PROPERTY OWNER SHALL BE RESPONSIBLE FOR CLEANING AND MAINTAINING ENTIRE PIPE.
2. PIPE SHALL BE 3" O.D. 12 STANDARD WEIGHT GALVANIZED STEEL OR NON-BELLCAST IRON PIPE IN TRAFFIC AREAS AND PVC IN NON-TRAFFIC AREAS.
3. PIPE SHALL BE PLACED WITH A MINIMUM 1% SLOPE.
4. PLACE 4x4 10 GAGE WIRE MESH FULL LENGTH 24" ON EACH SIDE OF PIPE.
5. UNDER SIDEWALK DRAINS WITHIN PUBLIC RIGHT-OF-WAY TO BE USED ONLY UPON APPROVAL OF CITY ENGINEER WHERE A STORM DRAIN DOES NOT EXIST, OR EXTENSION OF AN EXISTING STORM DRAIN IS IMPRACTICAL.
6. MULTIPLE PIPES MAY BE USED WHERE REQUIRED BY THE CONTRIBUTING AREA. IN THIS CASE, PIPES SHALL BE SPACED 7" APART ON CENTER.

CITY OF DIXON ENGINEERING STANDARD DETAIL	APPROVED: MARCH 2022	UNDER SIDEWALK DRAIN	4580



PARK AND TURF FIELD INLET

NOTES:
1. JENSEN 1212-HDI CHRISTY V12 DRAIN BOX OR APPROVED EQUAL.
2. WELDED STEEL BAR GRATE SHALL HAVE TWO HOLD DOWN BOLTS.
3. H-20 TRAFFIC LOADING.
4. 12" PERIMETER GROUTED COBBLE COLLAR FOR PLANTER BED APPLICATIONS.
5. NATIVE BACKFILL TO 90% RELATIVE COMPACTION.

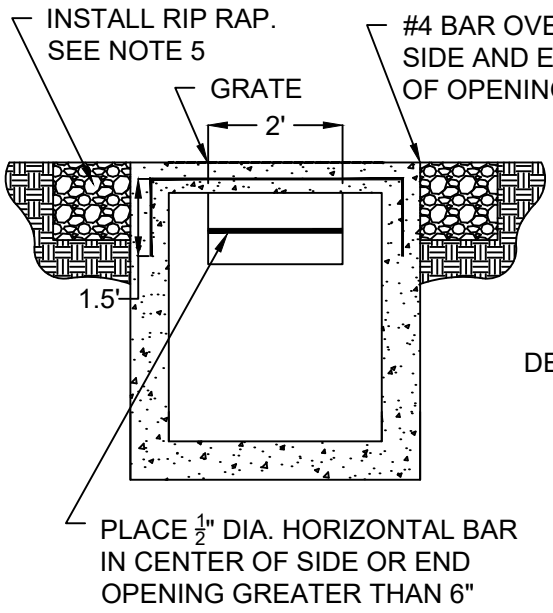


PLANTER BED FIELD INLET

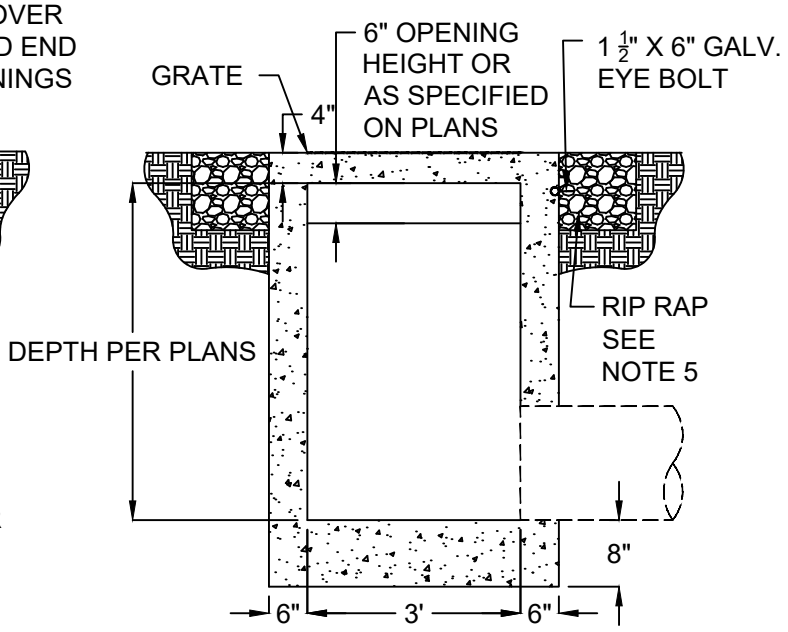
NOTES:
1. JENSEN F8 OR CHRISTY V05 OR APPROVED EQUAL.
2. 12" PERIMETER GROUTED COBBLE COLLAR.
3. NATIVE BACKFILL TO 90% RELATIVE COMPACTION.

SPECIAL NOTE:
CALTRANS TYPE OCP OR OCPI FIELD INLETS TO BE USED IN ALL OTHER FIELD APPLICATION WITH COBBLE STONE OR OTHER APPROVED EROSION CONTROL PROTECTION.

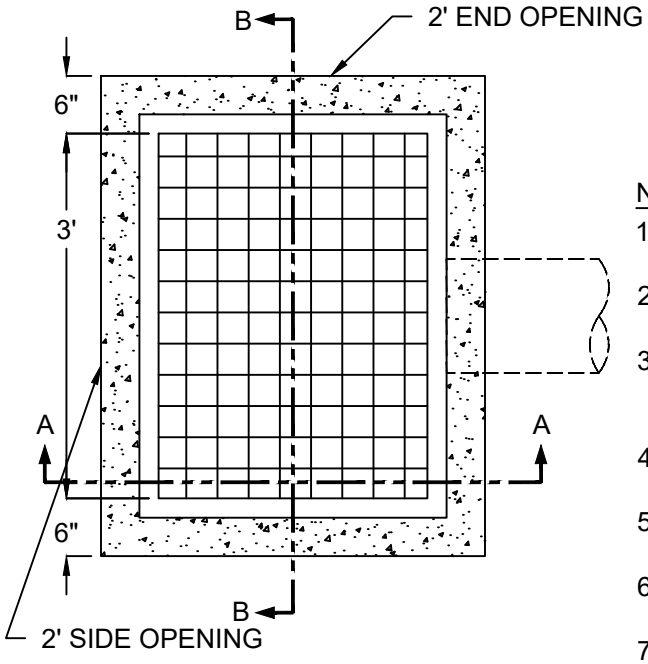
4590	FIELD INLETS	APPROVED: MARCH 2022	CITY OF DIXON ENGINEERING STANDARD DETAIL



SECTION B-B



SECTION A-A

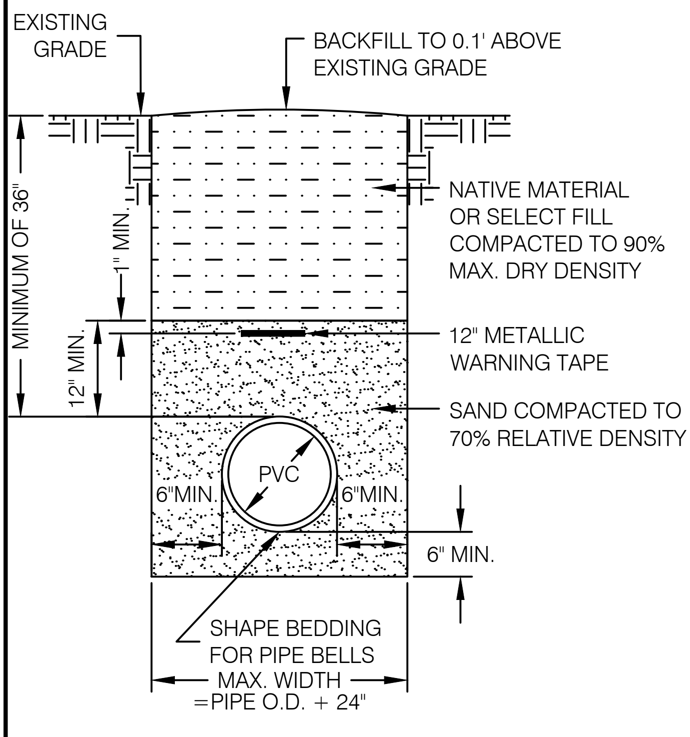


GRATE DETAIL

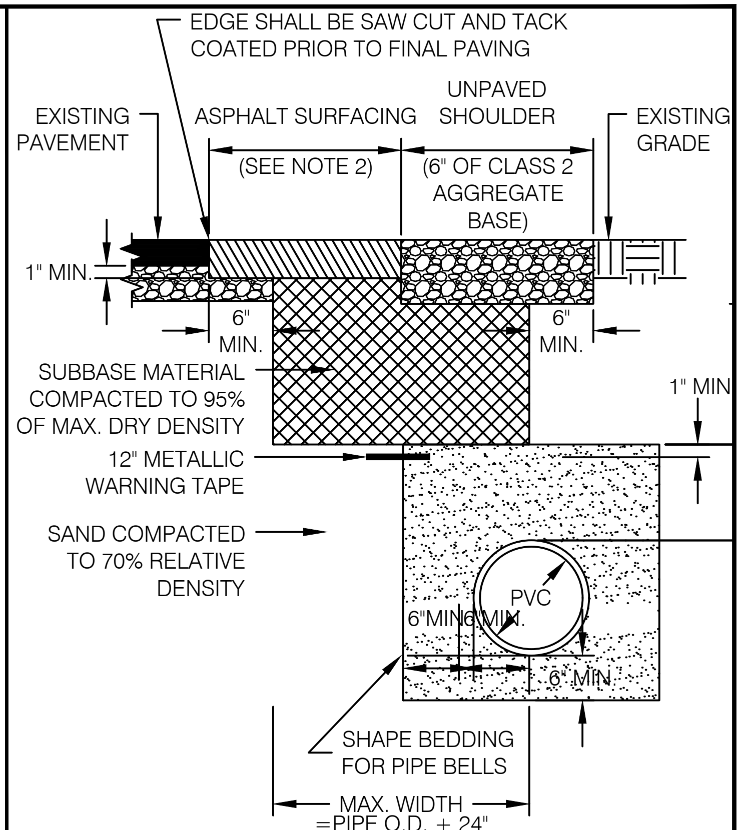
NOTES:

1. PROVIDE ¼" X 18" GALV. CHAIN WELD TO COVER AND EYE BOLT.
2. PROVIDE END OR SIDE OPENINGS AS SHOWN ON PLAN OR CROSS SECTION.
3. TOP OF ALL WALLS TO BE FINISHED TO A FLAT PLANE TO PROVIDE EVEN BEARING FOR GRATE.
4. GRATE SHALL BE GALVANIZED WELDED STEEL GRATE SUITABLE FOR H20 WHEEL LOADING.
5. INSTALL 18" DEEP X 2' WIDE RIP RAP AROUND INLET.
6. NATIVE BACKFILL TO 90% RELATIVE COMPACTION.
7. WALL REINFORCING NOT REQUIRED WHEN DEPTH TO BOTTOM OF INLET. WALLS EXCEEDING THESE LIMITS SHALL BE REINFORCED WITH #4 BARS @ 18" O.C. PLACED 1 ½" CLEAR TO INSIDE OF BOX UNLESS OTHERWISE SHOWN ON PLANS.

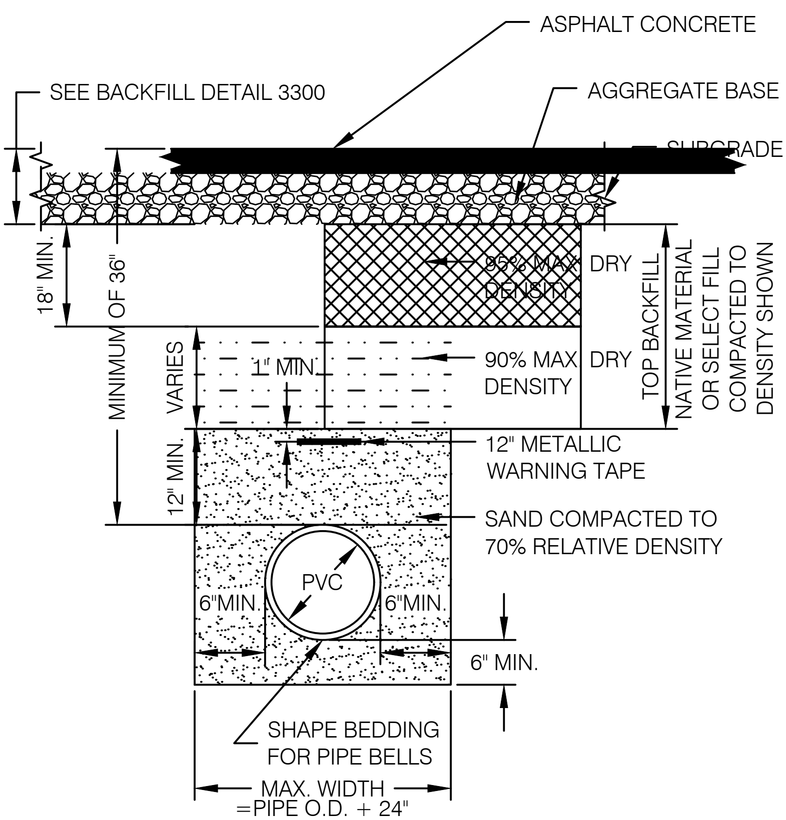
CITY OF DIXON ENGINEERING STANDARD DETAIL	REGISTERED PROFESSIONAL ENGINEER DEBORAH [illegible] 28548 CIVIL STATE OF CALIFORNIA APPROVED: MARCH 2022	FIELD INLET	4600



TRENCH IN OPEN AREAS



TRENCH IN EXISTING PAVED PORTIONS AND IN UNPAVED SHOULDERS

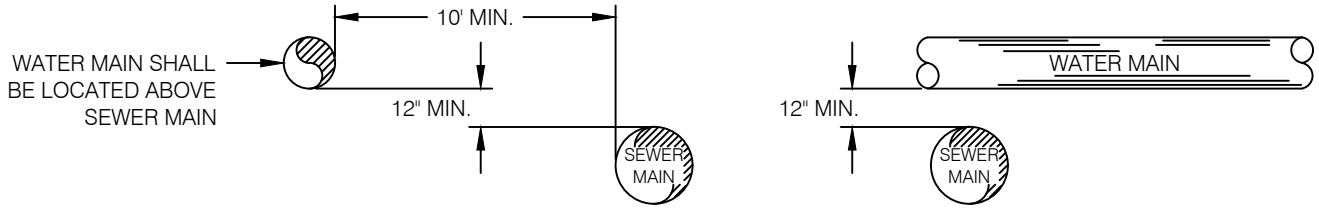


TRENCH IN PROPOSED PAVED PORTIONS

NOTES:

1. THE TEMPORARY ASPHALT SURFACING SHALL HAVE A MINIMUM THICKNESS OF 2 INCHES AND SHALL BE PLACED IMMEDIATELY AFTER BACKFILL AND MAINTAINED BY THE CONTRACTOR UNTIL PERMANENT SURFACING IS INSTALLED. THE PERMANENT ASPHALT SURFACING SHALL BE 1 INCH THICKER THAN THE EXISTING PAVEMENT, WITH A MINIMUM THICKNESS OF 4 INCHES. ASPHALT PAVING SHALL MEET THE REQUIREMENTS OF CALTRANS STANDARD SPECIFICATIONS WITH METHOD OF PLACEMENT AS REQUIRED BY THE CITY OF DIXON.
2. THE SUBBASE MATERIAL SHALL BE CLASS 2 AGGREGATE BASE PER SECTION 26 OF CALTRANS STANDARD SPECIFICATIONS.
3. MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D-1557 FOR COHESIVE MATERIALS. RELATIVE DENSITY IN ACCORDANCE WITH ASTM D-4253 FOR NON-COHESIVE MATERIALS.
4. EXISTING ASPHALT TO BE REMOVED FROM THE JOB SITE, NOT TO BE PLACED IN BACKFILL.
5. JETTING OF TRENCH BACKFILL IS NOT PERMITTED.
6. REFER TO THE STANDARD SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
7. DIMENSIONS SHOWN ARE REQUIRED UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
8. ALL OPEN TRENCH WATER LINES SHALL HAVE #12 AWG COPPER TRACER WIRE, SECURED TO THE PIPE WITH TAPE IN 5' INTERVALS.

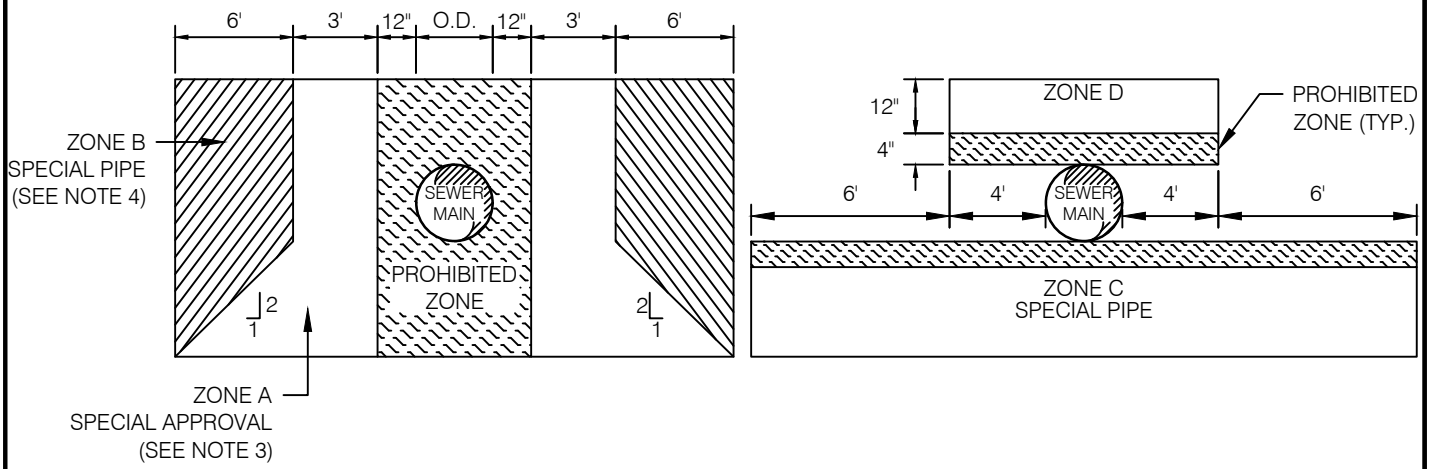
CITY OF DIXON ENGINEERING STANDARD DETAIL	REGISTERED PROFESSIONAL ENGINEER DEBORAH A. BURT 70541 CIVIL STATE OF CALIFORNIA APPROVED: MARCH 2022	TRENCH DETAILS FOR POLYVINYL CHORIDE PIPE (PVC)	5000



PARALLEL INSTALLATION

PERPENDICULAR CROSSING

BASIC SEPARATION REQUIREMENTS



PARALLEL INSTALLATION

PERPENDICULAR CROSSING

SPECIAL SEPARATION REQUIREMENTS

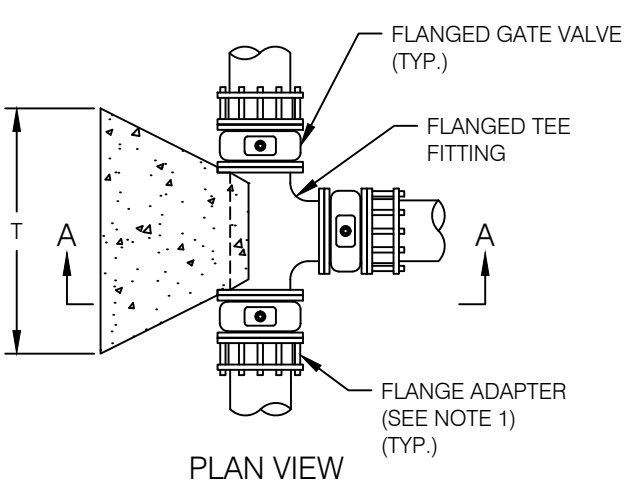
DIMENSIONS ARE FROM THE OUTSIDE OF THE SEWER MAIN TO THE OUTSIDE OF THE WATER MAIN

NOTES:

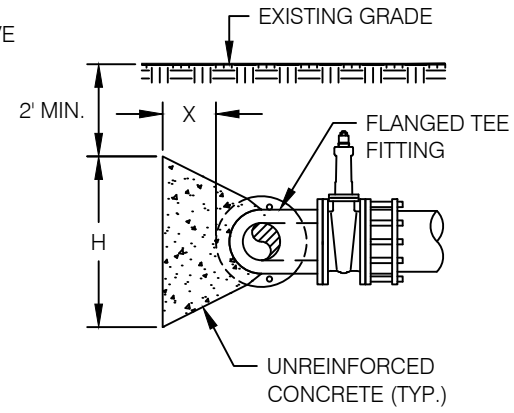
1. THE CONTRACTOR SHALL FOLLOW THE CALIFORNIA WATERWORKS STANDARD TITLE 22 CCR § 64572 FOR THE SEPARATION REQUIREMENTS BETWEEN WATER MAINS AND SANITARY SEWER GUIDELINES PREPARED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES.
2. WHEN THE BASIC SEPARATION REQUIREMENTS CANNOT BE MET, THE CONTRACTOR SHALL INSTALL WATER MAINS ACCORDING TO SPECIAL INSTALLATION REQUIREMENTS.
3. NO WATER MAINS PARALLEL TO SEWER MAINS SHALL BE INSTALLED WITHIN ZONE A WITHOUT SPECIAL APPROVAL FROM THE DEPARTMENT OF HEALTH SERVICES.
4. WHEN LOCATED IN ZONE B, THE WATER MAIN SHALL BE CLASS 305 PVC, DR 14 PER AWWA C900 OR EQUIVALENT.

5010	WATER - SEWER SEPARATION DETAIL	REGISTERED PROFESSIONAL ENGINEER DEBORAH [illegible] 78544 CIVIL STATE OF CALIFORNIA APPROVED: MARCH 2022	CITY OF DIXON ENGINEERING STANDARD DETAIL

PIPE SIZE	TEES		
	H	T	X
4"	1.5'	1.5'	1'
6"	1.5'	3'	1'
8"	2.5'	3.5'	1.5'
10"	3'	4'	1.5'
12"	3'	6'	1.5
14"	4'	5.5'	1.5'
16"	4.5'	5.5'	1.5'
18"	5'	5.5'	1.5'
20"	5'	6.5'	1.5'



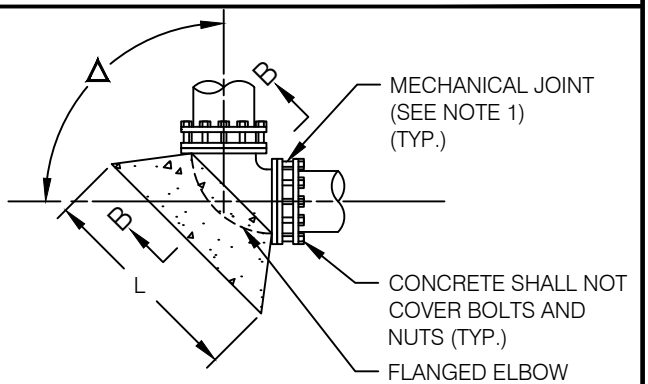
PLAN VIEW



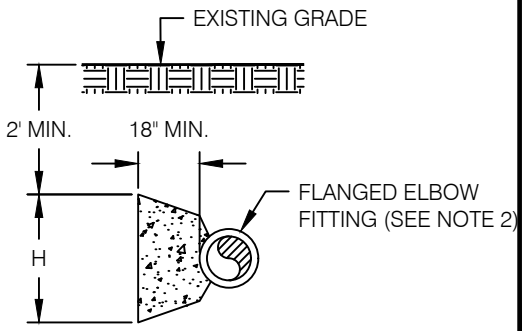
SECTION A-A

TEES

HORIZONTAL BENDS MINIMUM DIMENSIONS										
PIPE SIZE	BENDS (Δ)									
	3°-7°		>7°-22 ½°		>22 ½°-45°		>45°-60°		>60°-90°	
	H	L	H	L	H	L	H	L	H	L
4"	NO THRUST BLOCK REQUIRED		1.5'	1'	1.5'	1'	1.5'	1.5'	1.5'	2'
6"			1.5'	1.5'	1.5'	2.5'	1.5'	3'	1.5	4'
8"			2'	2'	2'	3'	2.5'	3.5'	2.5'	4.5'
10"	1.5'	1'	2'	2'	2.5'	3'	2.5'	4'	3'	4.5'
12"	2'	1'	2'	2'	3'	4'	3'	5.5	3'	7.5
14"	2'	1.5'	3'	3'	4'	4'	4'	5.5'	4'	7.5'
16"	2'	2'	3'	4'	4.5'	4.5'	5'	6'	5'	8'
18"	2.5'	2'	3.5'	4'	4.5'	5'	5'	6'	5'	8'
20"	3'	4'	3.5'	5'	4.5'	6'	5'	7'	5'	9.5'



PLAN VIEW



SECTION B-B

BENDS

NOTES:

1. FLANGE ADAPTER MAY BE FLANGE BY MECHANICAL JOINT OR FLANGED COUPLING ADAPTER.
2. FITTINGS MAY BE FLANGED OR MECHANICAL JOINT TYPE.
3. ALL FLANGED OR MECHANICAL JOINT CROSSES, TEES AND BENDS SHALL BE DUCTILE IRON (AWWA C-110 OR C-153) CLASS 150. THE INTERIOR SURFACES SHALL BE CEMENT MORTAR LINED PER AWWA C-104 AND THE EXTERIOR SURFACES SHALL BE COAL TAR COATED AND BE POLYETHYLENE ENCASED PER AWWA C-105.
4. ALL BELOW GROUND NUTS, BOLTS AND MISCELLANEOUS STEEL SHALL BE POLYETHYLENE ENCASED AS PER AWWA C-105 OR TAPE WRAPPED PER AWWA C-209, 20 MILS MINIMUM IN BOTH CASES. STAINLESS STEEL MAY BE SUBSTITUTED.
5. ALL THRUST BLOCKS SHALL BE CAST AGAINST UNDISTURBED NATIVE MATERIAL. NO BACKFILL ALLOWED BETWEEN UNDISTURBED NATIVE MATERIAL AND THRUST BLOCK.
6. THE CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI. ALL CEMENT SHALL BE PORTLAND CEMENT, TYPE II, WITH A MINIMUM OF 5 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE.
7. FOR DESIGN PRESSURES GREATER THAN 150 PSI, THRUST BLOCK DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL.

CITY OF DIXON

ENGINEERING

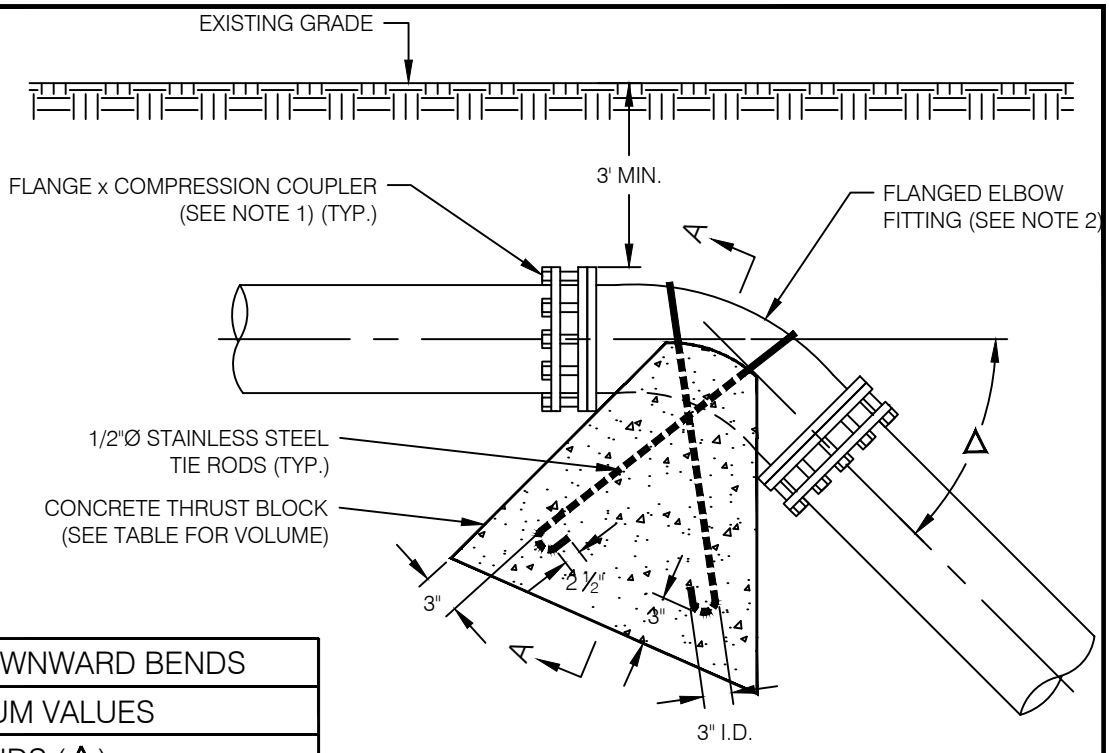
STANDARD DETAIL

REGISTERED PROFESSIONAL ENGINEER DEBORAH A. FRAZEE 78544 CIVIL STATE OF CALIFORNIA

APPROVED: MARCH 2022

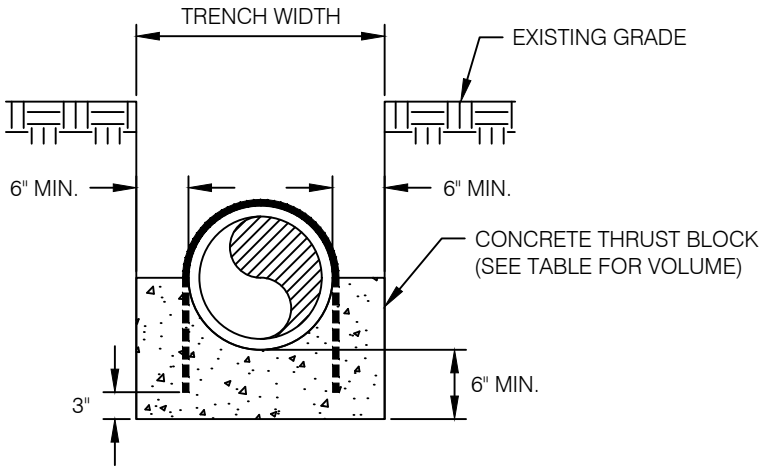
FITTINGS & THRUST BLOCKS FOR HORIZONTAL BENDS AND TEES

5020



PLAN VIEW

VERTICAL DOWNWARD BENDS				
MINIMUM VALUES				
PIPE SIZE	BENDS (Δ)			
	3°-7°	>7°-22 ½°	>22 ½°-45°	>45°-60°
	CU YRD	CU YRD	CU YRD	CU YRD
4"	0.25	0.5	0.5	0.5
6"	0.25	0.5	1	1.5
8"	0.5	1.5	2.5	3
10"	0.5	1.5	3	3.5
12"	1	2.5	4	5
14"	1	3.5	6	8
16"	1.5	4	8	10
18"	2	5	9	11
20"	3	6	10	12

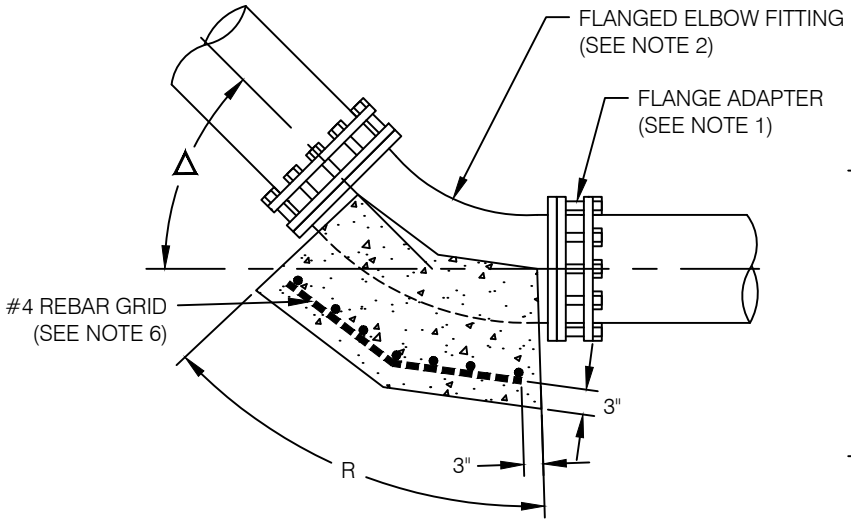


SECTION A-A

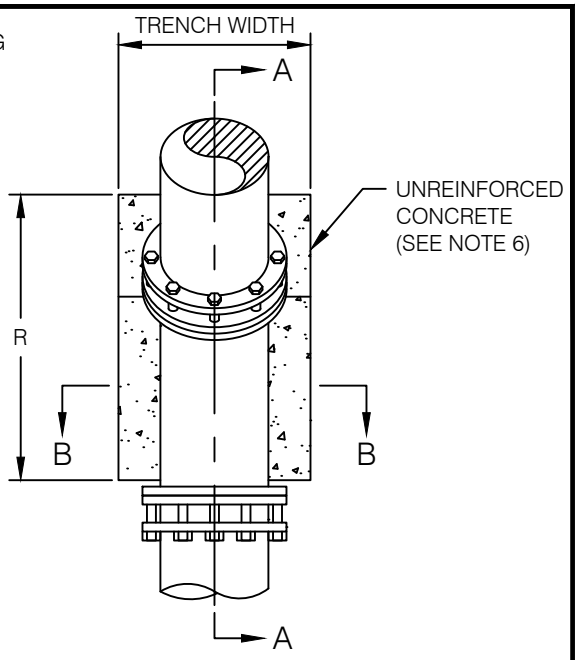
NOTES:

1. FLANGE ADAPTER MAY BE FLANGE BY MECHANICAL JOINT OR FLANGED COUPLING ADAPTER.
2. FITTINGS MAY BE FLANGED OR MECHANICAL JOINT TYPE.
3. ALL FLANGED OR MECHANICAL JOINT CROSSES, TEES AND BENDS SHALL BE DUCTILE IRON (AWWA C-110 OR C-153) CLASS 150. THE INTERIOR SURFACES SHALL BE CEMENT MORTAR LINED PER AWWA C-104 AND THE EXTERIOR SURFACES SHALL BE COAL TAR COATED PER AWWA C-203.
4. ALL BELOW GROUND NUTS, BOLTS AND MISCELLANEOUS STEEL SHALL BE POLYETHYLENE ENCASED AS PER AWWA C-105 OR TAPE WRAPPED PER AWWA C-209, 20 MILS MINIMUM IN BOTH CASES. STAINLESS STEEL MAY BE SUBSTITUTED.
5. ALL THRUST BLOCKS SHALL BE CAST AGAINST UNDISTURBED NATIVE MATERIAL. NO BACKFILL ALLOWED BETWEEN UNDISTURBED NATIVE MATERIAL AND THRUST BLOCK.
6. THE CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI. ALL CEMENT SHALL BE PORTLAND CEMENT, TYPE II, WITH A MINIMUM OF 5 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE.
7. FOR DESIGN PRESSURES GREATER THAN 150 PSI, THRUST BLOCK DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL.

5030	FITTINGS & THRUST BLOCKS FOR VERTICAL DOWNWARD BENDS	REGISTERED PROFESSIONAL ENGINEER DEBORAH [illegible] 78544 CIVIL STATE OF CALIFORNIA APPROVED: MARCH 2022	CITY OF DIXON ENGINEERING STANDARD DETAIL

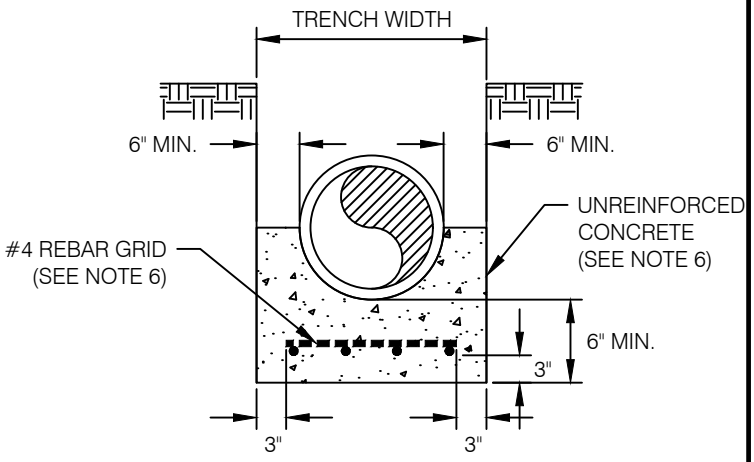


SECTION A-A



PLAN VIEW

VERTICAL UPWARD BENDS				
MINIMUM VALUES				
PIPE SIZE	BENDS (Δ)			
	3°-7°	>7°-22 ½°	>22 ½°-45°	>45°-60°
	R	R	R	R
4"	NA	1'	1'	1'
6"	NA	1'	1.5'	2'
8"	NA	1.5'	2.5'	3.5'
10"	1'	1.5'	3'	4'
12"	1'	2'	4.5'	5.5
14"	1'	3'	6'	8'
16"	1'	3.5'	7'	9'
18"	1.5'	4'	8'	10'
20"	2'	5'	10'	12'



SECTION B-B

NOTES:

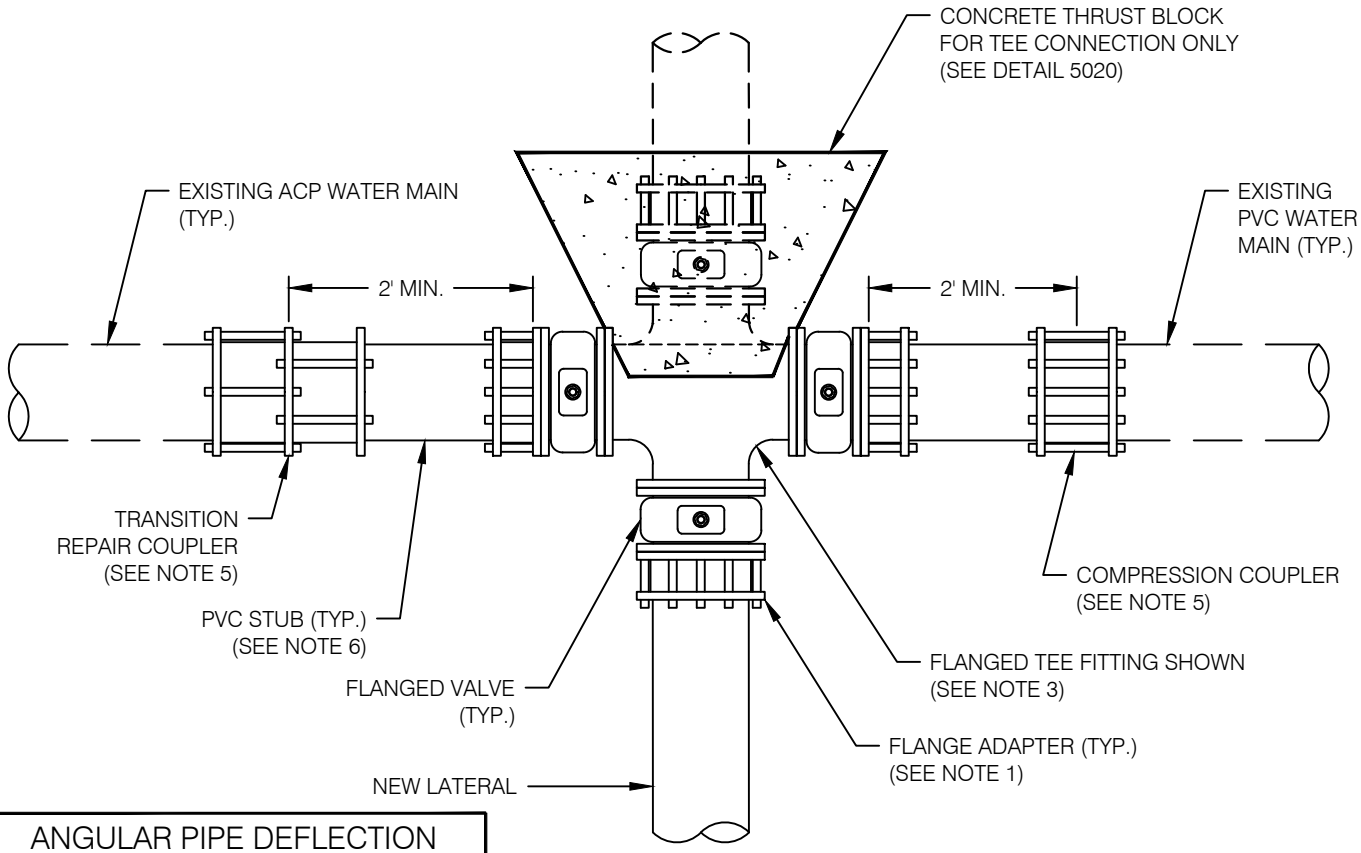
1. FLANGE ADAPTER MAY BE FLANGE BY MECHANICAL JOINT OR FLANGED COUPLING ADAPTER.
2. FITTINGS MAY BE FLANGED OR MECHANICAL JOINT TYPE.
3. ALL FLANGED OR MECHANICAL JOINT CROSSES, TEES AND BENDS SHALL BE DUCTILE IRON (AWWA C-110 OR C-153) CLASS 150 AND COMPATIBLE WITH CAST IRON PIPE SIZE PVC. THE INTERIOR SURFACES SHALL BE CEMENT MORTAR LINED PER AWWA C-104 AND THE EXTERIOR SURFACES SHALL BE COAL TAR COATED PER AWWA C-203.
4. ALL BELOW GROUND NUTS, BOLTS AND MISCELLANEOUS STEEL SHALL BE POLYETHYLENE ENCASED AS PER AWWA C-105 OR TAPE WRAPPED PER AWWA C-209, 20 MILS MINIMUM IN BOTH CASES. STAINLESS STEEL MAY BE SUBSTITUTED.
5. ALL THRUST BLOCKS SHALL BE CAST AGAINST UNDISTURBED NATIVE MATERIAL. NO BACKFILL ALLOWED BETWEEN UNDISTURBED NATIVE MATERIAL AND THRUST BLOCK.
6. IF THE MINIMUM DIMENSION "R" IS GREATER THAN THE TRENCH WIDTH, THE THRUST BLOCK SHALL BE REINFORCED WITH #4 REBAR GRID @ 12" O.C. EACH WAY AND LOCATED AS SHOWN.
7. THE CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI. ALL CEMENT SHALL BE PORTLAND CEMENT, TYPE II, WITH A MINIMUM OF 5 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE.
8. FOR DESIGN PRESSURES GREATER THAN 150 PSI, THRUST BLOCK DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL.

CITY OF DIXON
ENGINEERING
STANDARD DETAIL

APPROVED: MARCH 2022

FITTINGS & THRUST BLOCKS FOR VERTICAL UPWARD BENDS

5040



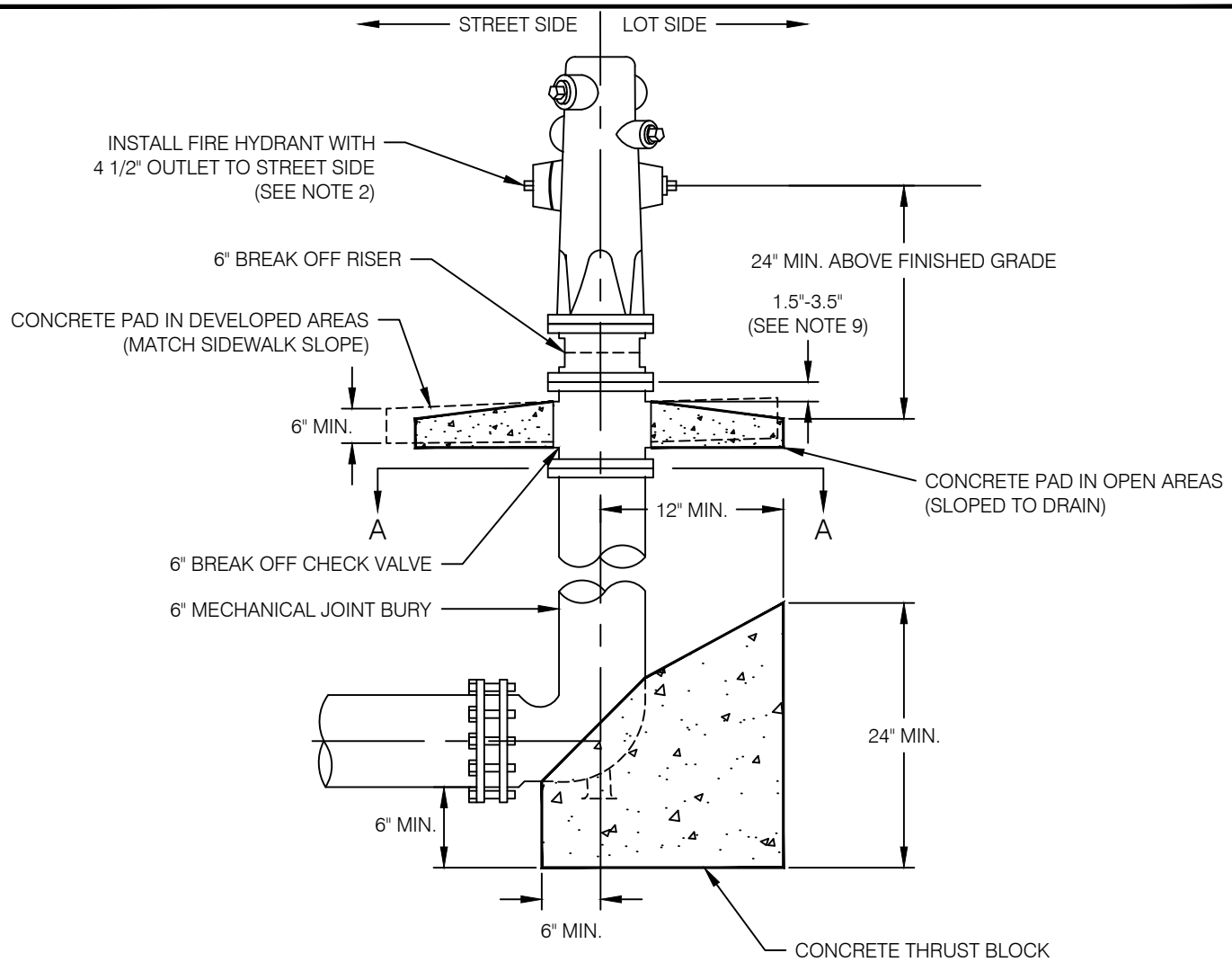
PLAN VIEW

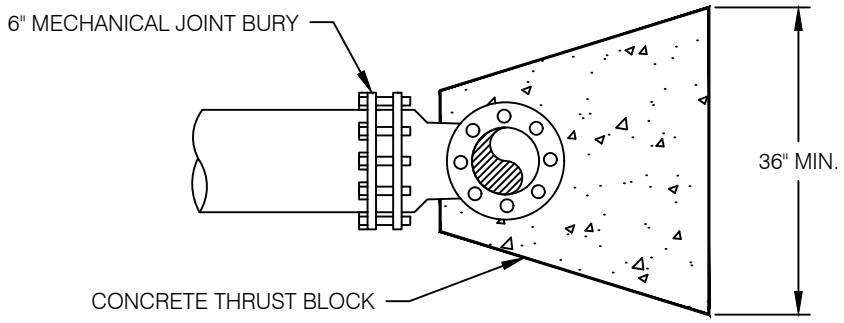
ANGULAR PIPE DEFLECTION			
MAXIMUM VALUES			
PIPE SIZE	SLEEVE LENGTH		
	5"	7"	10"
4" - 14"	4°	4 1/2°	4 1/2°
16" - 24"	2°	4°	4 1/2°
26" - 36"	1 1/2°	3 1/2°	3 1/2°
Note: Deflection (in degrees) is PER COUPLER			

NOTES:

1. FLANGE ADAPTER MAY BE FLANGE BY MECHANICAL JOINT OR FLANGED COUPLING ADAPTER.
2. FITTINGS MAY BE FLANGED OR MECHANICAL JOINT TYPE.
3. ALL FLANGED OR MECHANICAL JOINT CROSSES AND TEES SHALL BE DUCTILE IRON (AWWA C-110 OR C-153) CLASS 150 AND COMPATIBLE WITH CAST IRON PIPE SIZE PVC. THE INTERIOR SURFACES SHALL BE CEMENT MORTAR LINED PER AWWA C-104 AND THE EXTERIOR SURFACES SHALL BE COAL TAR COATED PER AWWA C-203.
4. ALL BELOW GROUND NUTS, BOLTS AND MISCELLANEOUS STEEL SHALL BE POLYETHYLENE ENCASED AS PER AWWA C-105 OR TAPE WRAPPED PER AWWA C-209, 20 MILS MINIMUM IN BOTH CASES.
5. ALL COMPRESSION AND REPAIR COUPLERS SHALL BE RESTRAINED AND SHALL BE PER APPROVED MATERIALS LIST. FOR SEVERE ANGULAR PIPE DEFLECTIONS, REPAIR COUPLERS SHALL BE SUBMITTED TO AND APPROVED BY THE CITY ENGINEER.
6. PVC STUBS SHALL BE 2 FEET (2') MINIMUM IN LENGTH AND HAVE A CLASS AND PRESSURE RATING EQUAL TO, OR GREATER THAN, THE EXISTING WATER MAIN.
7. AT CONTRACTOR'S EXPENSE, ADDITIONAL FITTINGS AND PIPE SECTIONS MAY BE REQUIRED BY THE CITY ENGINEER TO ACCOMMODATE SEVERE MISALIGNMENTS IN THE PIPELINE AFTER IT HAS BEEN CUT.

5050	"CUT-IN" TEE OR CROSS DETAIL FOR LATERAL CONNECTION	APPROVED: MARCH 2022	CITY OF DIXON ENGINEERING STANDARD DETAIL





SECTION A-A

NOTES:

1. FIRE HYDRANT SHALL BE CLOW 960.
2. 4 1/2" OUTLET CAP TO BE PAINTED ACCORDING TO NFPA STANDARDS BASED ON FLOW TEST RESULTS.
3. HYDRANT SHALL BE FURNISHED WITH FACTORY APPLIED "BRIGHT WHITE" EPOXY COATING. FIELD APPLIED TOUCH-UP MAY BE REQUIRED.
4. PRIVATE FIRE HYDRANTS SHALL BE FURNISHED WITH FACTORY APPLIED "RED" EPOXY COATING.
5. ALL EXPOSED METAL SHALL BE PROPERLY PREPARED AND PAINTED WITH BRIGHT WHITE INDUSTRIAL ENAMEL PAINT. FIELD APPLIED TOUCH-UP MAY BE REQUIRED.
6. ALL BELOW GROUND NUTS, BOLTS, AND MISCELLANEOUS STEEL SHALL BE POLYETHYLENE ENCASED AS PER AWWA C-105 OR TAPE WRAPPED AS PER AWWA C-209, 20 MILS MINIMUM IN BOTH CASES.
7. THE CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI. ALL CONCRETE SHALL HAVE A MINIMUM OF 5 SACKS PORTLAND TYPE II CEMENT PER CUBIC YARD OF CONCRETE.
8. HYDRANT LATERAL SHALL BE INSTALLED AND BACKFILLED AS PER DETAIL 5000.
9. THE BOTTOM OF THE BREAKAWAY RISER SHALL BE 1.5"-3.5" FROM THE TOP OF THE CONCRETE SPLASH PAD.

CITY OF DIXON
ENGINEERING
STANDARD DETAIL

REN STARON PROFESSIONAL ENGINEER DEBORAH A. GARY 78544 CIVIL STATE OF CALIFORNIA

APPROVED: MARCH 2022

FIRE HYDRANT DETAIL

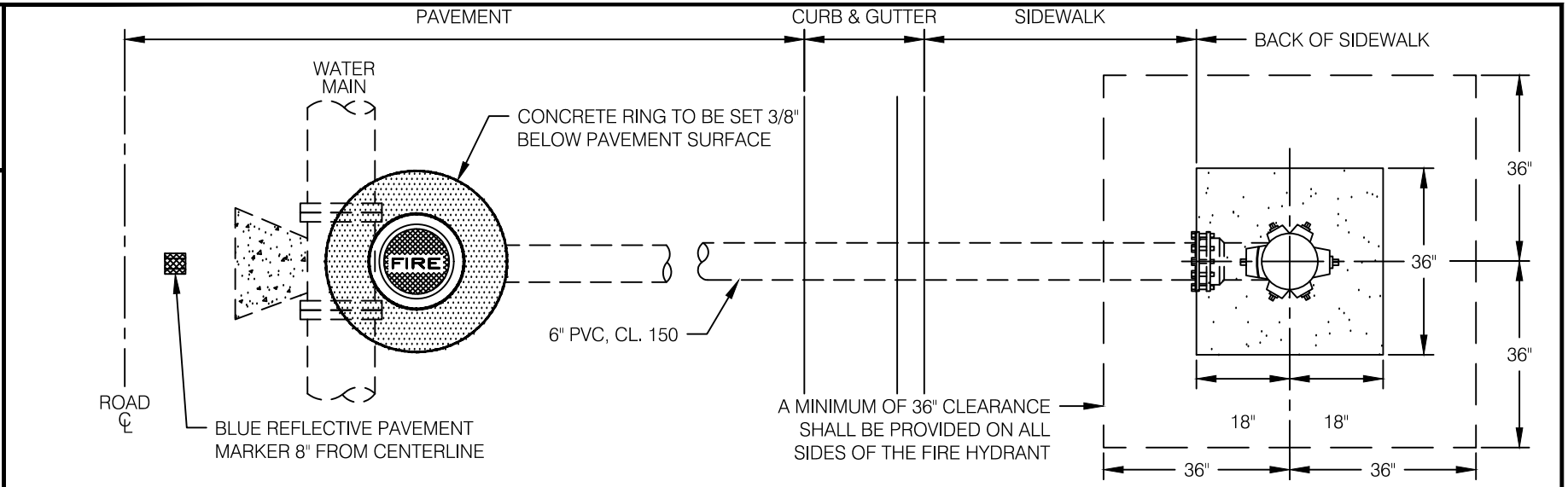
5060

5070

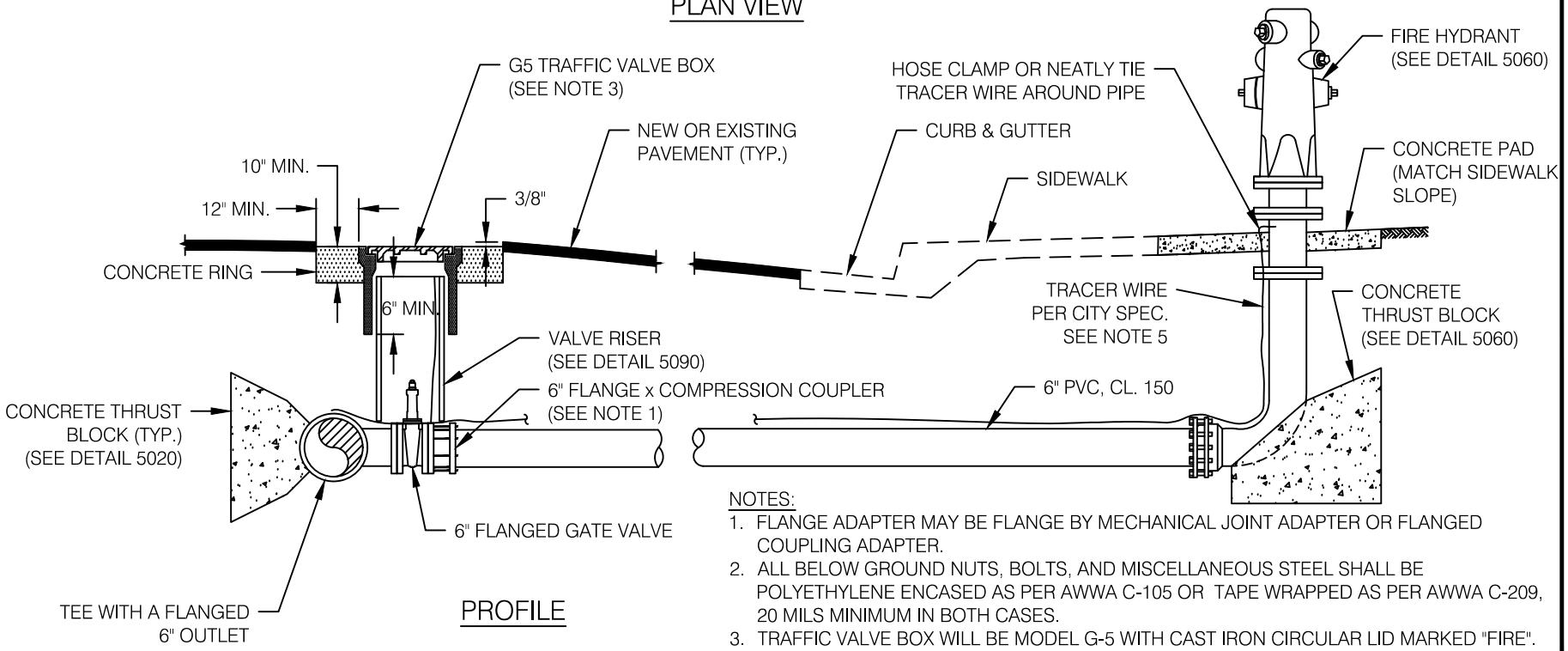
FIRE HYDRANT INSTALLATION FOR DEVELOPED AREAS

APPROVED: MARCH 2022

CITY OF DIXON
ENGINEERING
STANDARD DETAIL



PLAN VIEW



PROFILE

NOTES:

1. FLANGE ADAPTER MAY BE FLANGE BY MECHANICAL JOINT ADAPTER OR FLANGED COUPLING ADAPTER.
2. ALL BELOW GROUND NUTS, BOLTS, AND MISCELLANEOUS STEEL SHALL BE POLYETHYLENE ENCASED AS PER AWWA C-105 OR TAPE WRAPPED AS PER AWWA C-209, 20 MILS MINIMUM IN BOTH CASES.
3. TRAFFIC VALVE BOX WILL BE MODEL G-5 WITH CAST IRON CIRCULAR LID MARKED "FIRE".
4. SEE DETAIL 5060 FOR OTHER NOTES AND DETAILS.
5. TRACER WIRE SHALL BE ADDED TO THE HYDRANT LATERAL, FROM THE VALVE RISER TO THE SPLASH PAD. TRACER WIRE IS DESCRIBED IN DETAIL IN 5000.

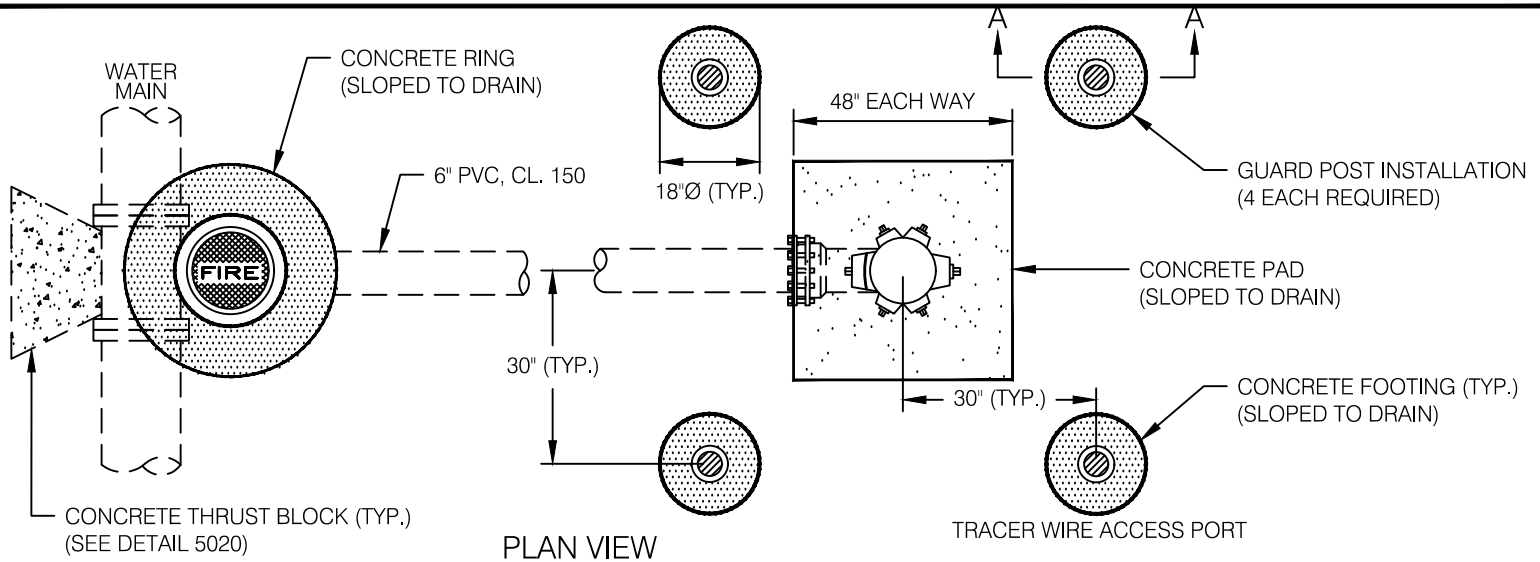
CITY OF DIXON

ENGINEERING STANDARD DETAIL

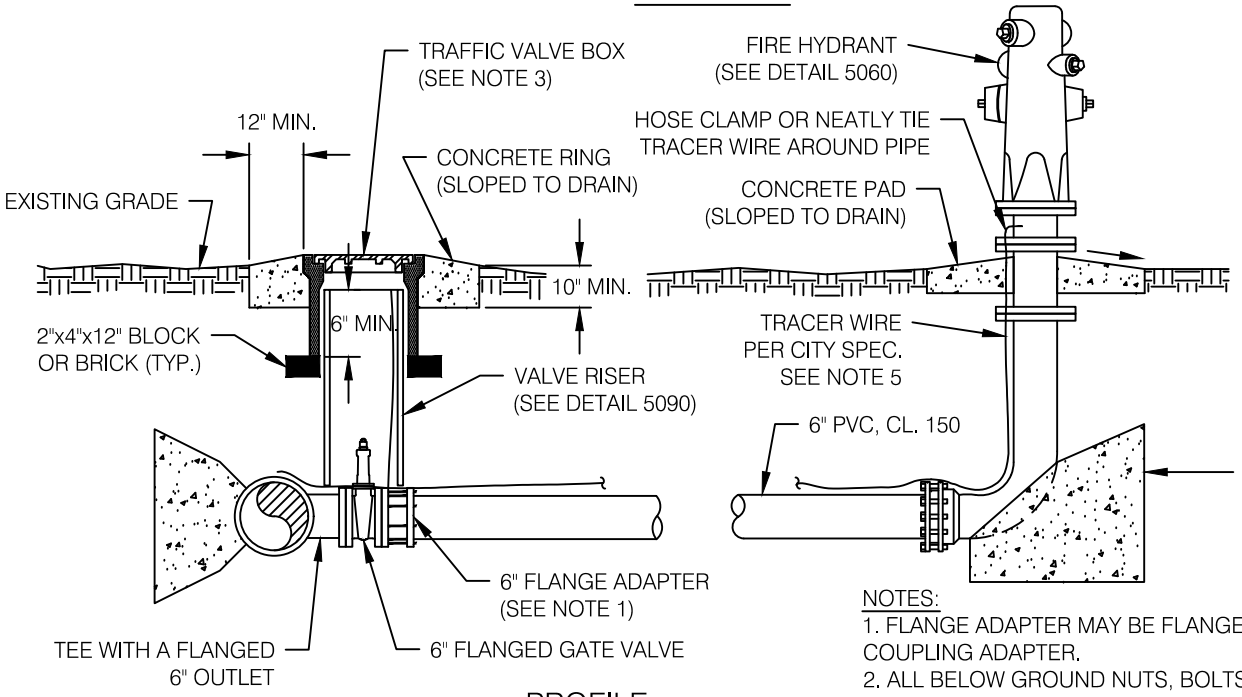
APPROVED: MARCH 2022

FIRE HYDRANT INSTALLATION FOR UNDEVELOPED AREAS

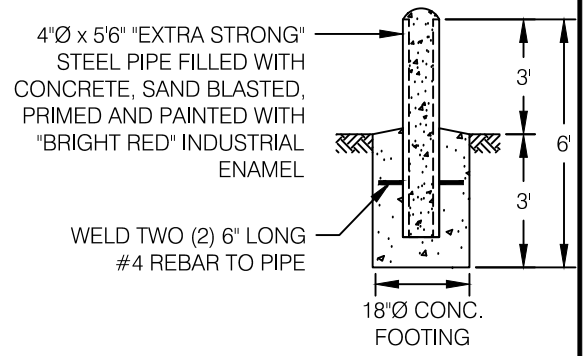
5080



PLAN VIEW



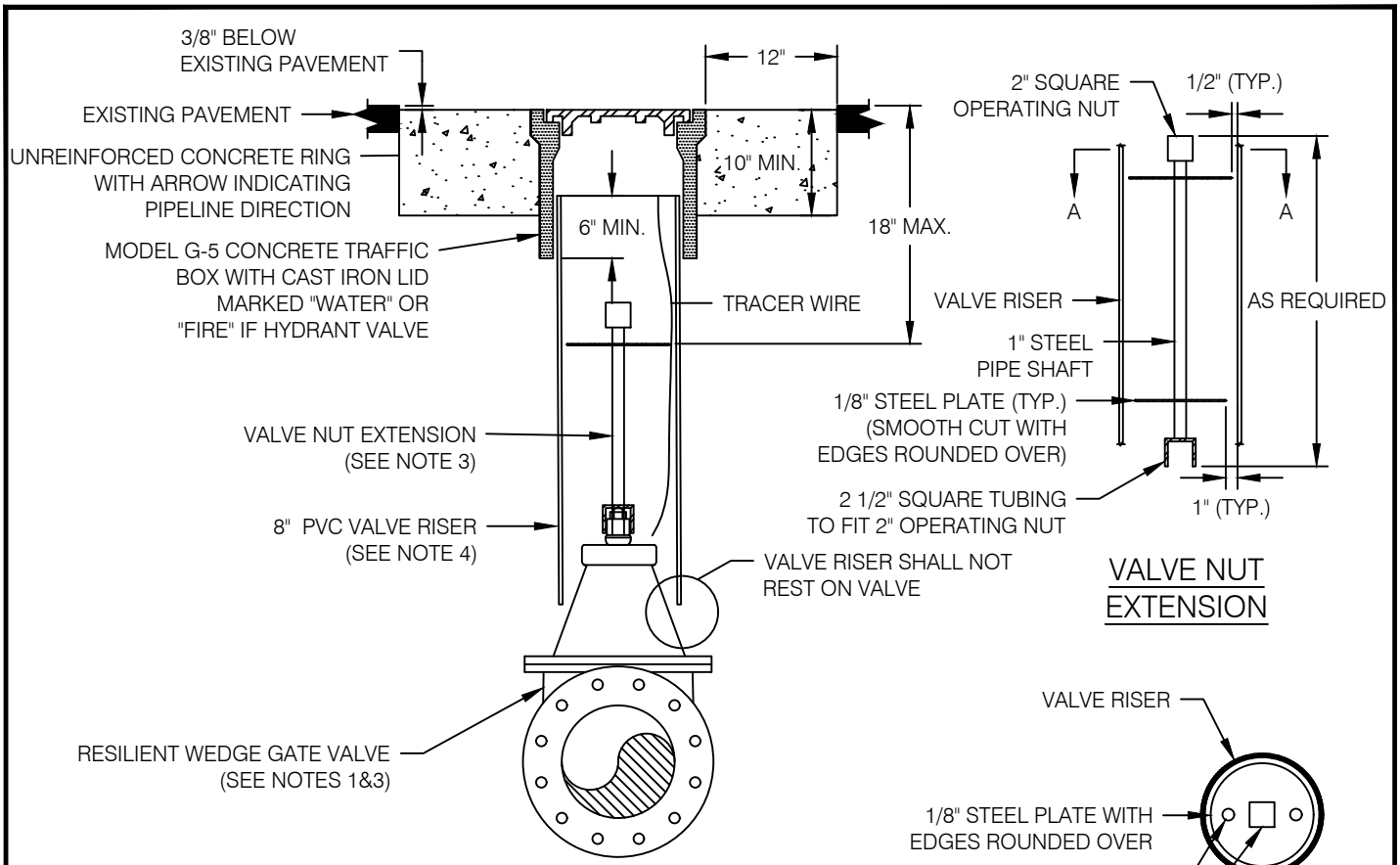
PROFILE

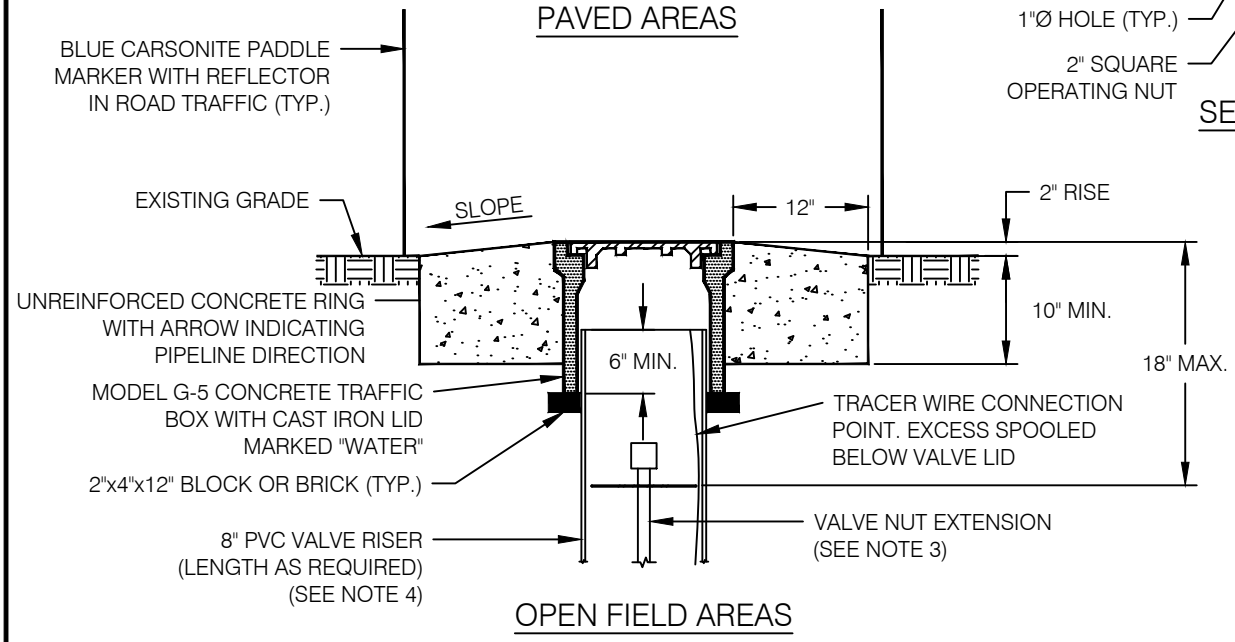


SECTION A-A
GUARD POST

NOTES:

1. FLANGE ADAPTER MAY BE FLANGE BY MECHANICAL JOINT ADAPTER OR FLANGED COUPLING ADAPTER.
2. ALL BELOW GROUND NUTS, BOLTS, AND MISCELLANEOUS STEEL SHALL BE POLYETHYLENE ENCASED AS PER AWWA C-105 OR TAPE WRAPPED AS PER AWWA C-209, 20 MILS MINIMUM IN BOTH CASES.
3. TRAFFIC VALVE BOX WILL HAVE CAST IRON CIRCULAR LID MARKED "FIRE".
4. SEE DETAIL 5060 FOR OTHER NOTES AND DETAILS.
5. TRACER WIRE SHALL BE ADDED TO THE HYDRANT LATERAL, FROM THE VALUE RISER TO THE SPLASH PAD. TRACER WIRE IS DESCRIBED IN DETAIL IN 5000.





NOTES:

1. ALL RESILIENT WEDGE GATE VALVES SHALL BE PER APPROVED MATERIALS LIST AND CONFORM TO AWWA C509 OR AWWA C515. RESILIENT WEDGE GATE VALVES SHALL BE FURNISHED WITH A 2" SQUARE OPERATING NUT, CLOCKWISE TO CLOSE. ALL INTERIOR AND EXTERIOR SURFACES SHALL HAVE FUSION-BONDED EPOXY COATING AND CONFORM TO AWWA C550.
2. ALL BELOW GROUND NUTS, BOLTS AND MISCELLANEOUS STEEL SHALL BE STAINLESS STEEL OR POLYETHYLENE ENCASED AS PER AWWA C-105 OR TAPE WRAPPED AS PER AWWA C-209, 20 MILS MINIMUM IN BOTH CASES.
3. IF TOP OF OPERATING NUT ON THE RESILIENT WEDGE GATE VALVE EXCEEDS 60" FROM EXISTING PAVEMENT OR GRADE, A VALVE NUT EXTENSION SHALL BE REQUIRED.
4. VALVE RISER MAY BE NOTCHED AROUND VALVE SHAFT WITH THE CITY ENGINEER'S APPROVAL. VALVE RISER SHALL NOT REST ON VALVE.

5090	TRAFFIC BOX AND VALVE DETAILS	REGISTERED PROFESSIONAL ENGINEER DEBORAH A. ROBINSON 78544 CIVIL STATE OF CALIFORNIA APPROVED: MARCH 2022	CITY OF DIXON ENGINEERING STANDARD DETAIL

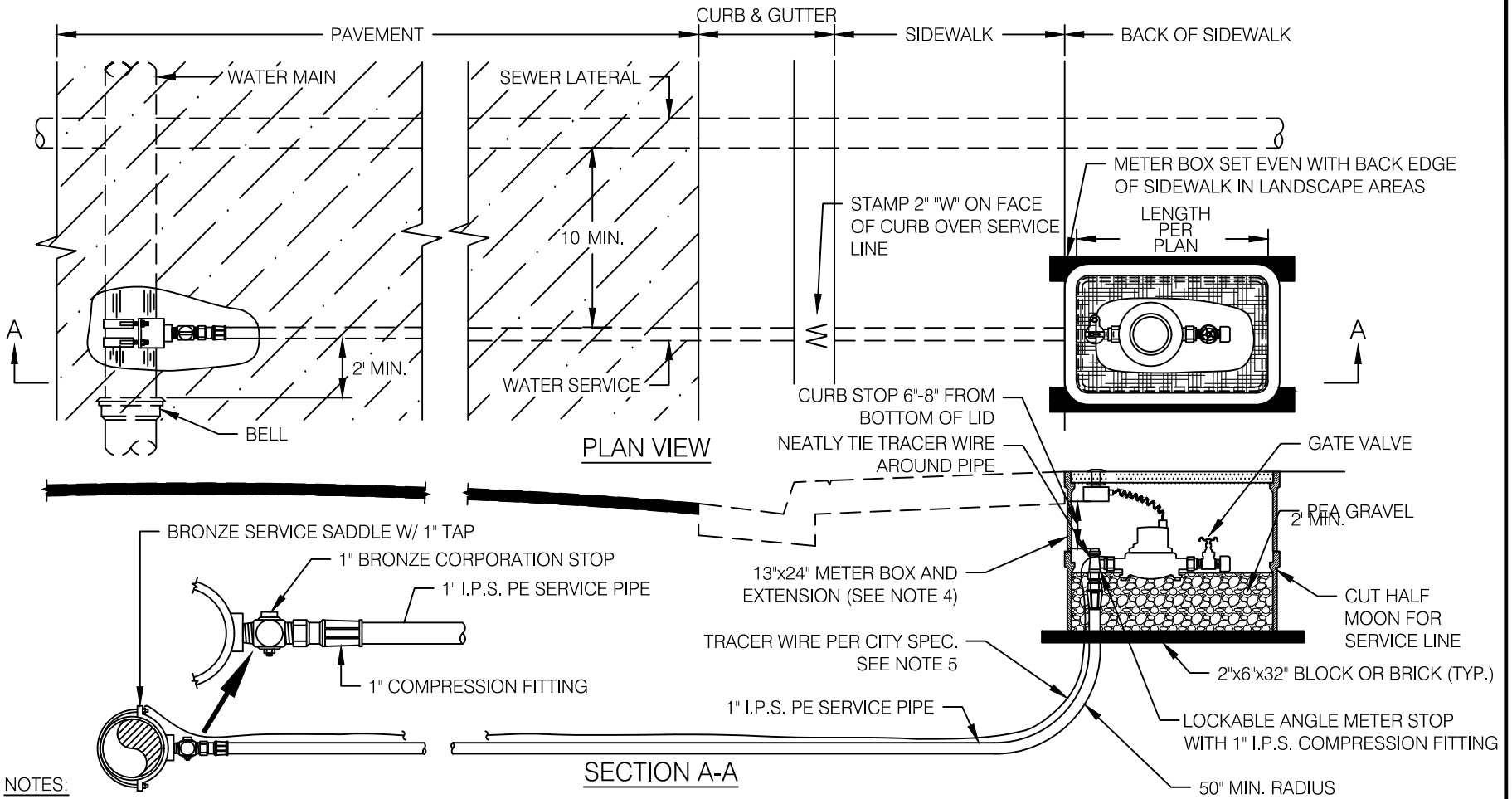
CITY OF DIXON

ENGINEERING STANDARD DETAIL

APPROVED: MARCH 2022

3/4" - 1" METER CONNECTION

5100

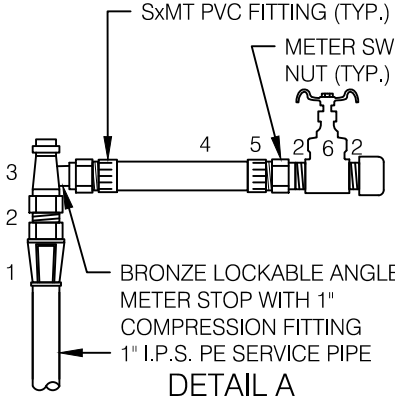


NOTES:

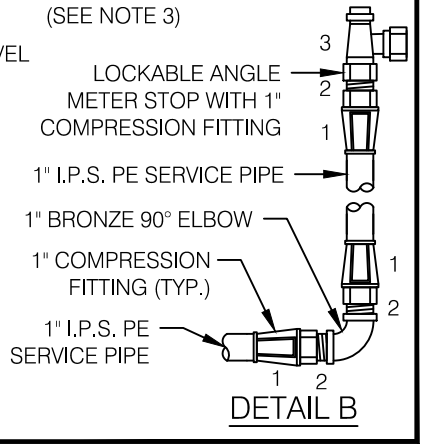
1. METER SHALL BE SENSUS MODEL SRII WITH A 520M SMART POINT. METER SHALL BE FURNISHED AND INSTALLED BY THE CITY AT THE CONTRACTORS EXPENSE. 1" POLYETHYLENE PIPE SHALL BE IRON PIPE SIZE (I.P.S) WITH A PRESSURE RATING OF 200 PSI.
2. IF THE METER IS NOT INSTALLED IMMEDIATELY, THE CONTRACTOR SHALL FABRICATE AND INSTALL A JUMPER, LENGTH SHALL BE EQUAL TO THE LAY LENGTH OF THE METER TO BE INSTALLED, SEE DETAIL A.
3. WHEN THE FIELD CONDITIONS WILL NOT ALLOW THE MINIMUM RADIUS, USE DETAIL B FOR THE REQUIRED INSTALLATION.
4. METER BOX SHALL BE LIGHTWEIGHT FIBERGLASS REINFORCED PLASTIC OR APPROVED EQUAL AND BACKFILLED TO THE BOTTOM OF THE METER WITH PEA GRAVEL.
5. TRACER WIRE SHALL BE ADDED TO PIPING FROM MAIN TO METER.

ITEM:

1. 1" COMPRESSION FITTING OR INSTA-TITE
2. 1" NIPPLE
3. BRASS LOCKABLE ANGLE METER STOP WITH 1' COMPRESSION FITTING
4. METER OR SPACER PIPE
5. METER TAIL
6. GATE VALVE



DETAIL A



DETAIL B

DETAIL NOT USED

5110	3/4" - 1" DOUBLE METER CONNECTION	APPROVED: MARCH 2022	CITY OF DIXON ENGINEERING STANDARD DETAIL

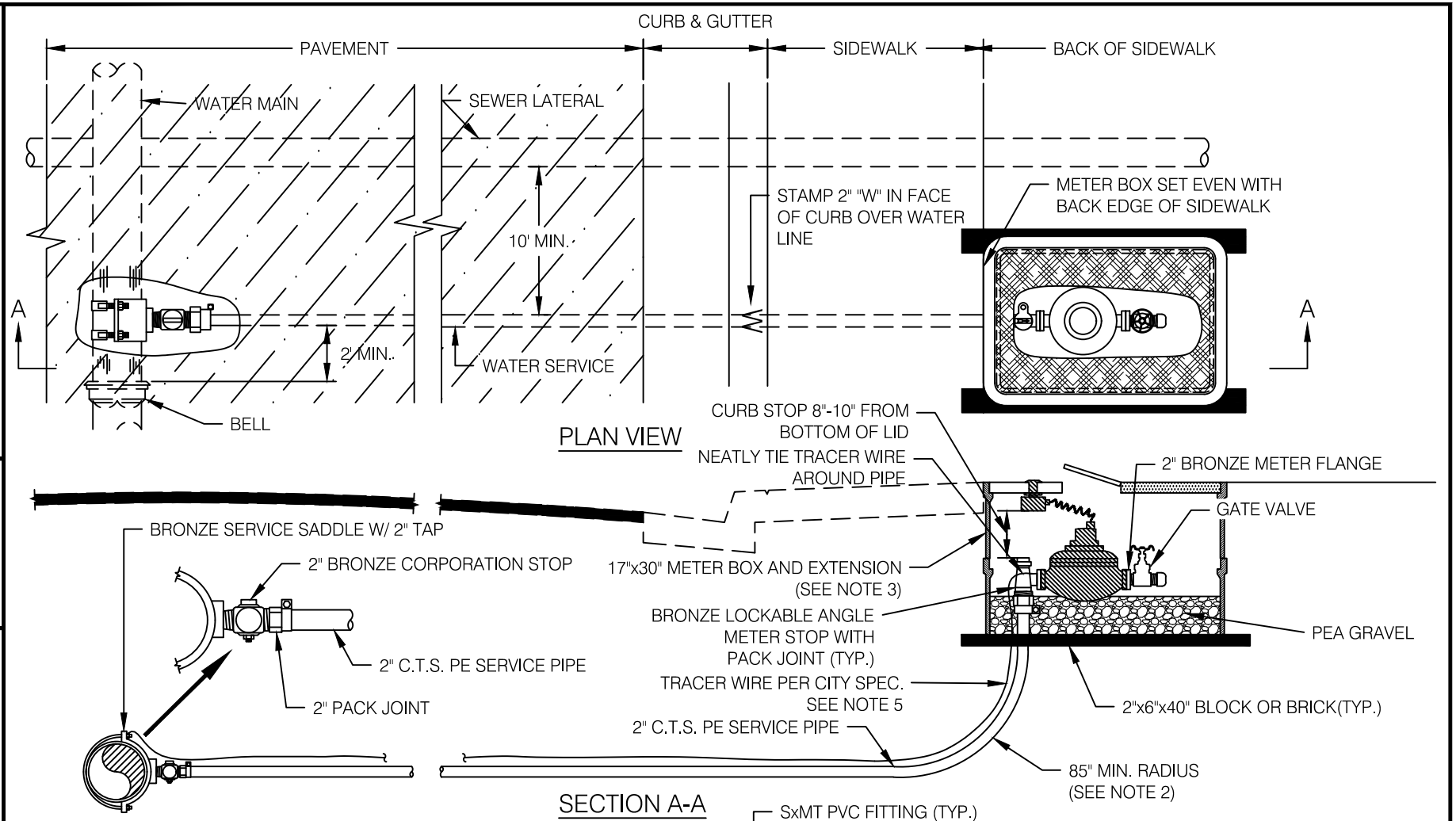
CITY OF DIXON

ENGINEERING STANDARD DETAIL

APPROVED: MARCH 2022

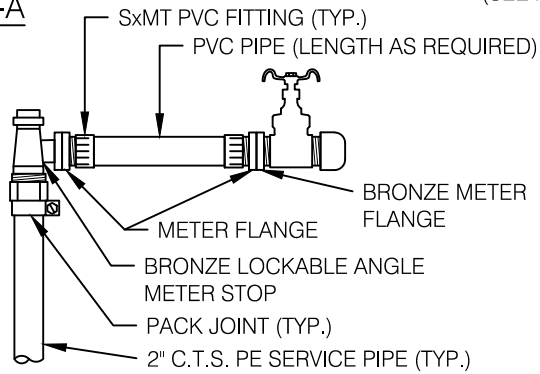
1 1/2" - 2" METER CONNECTION

5120

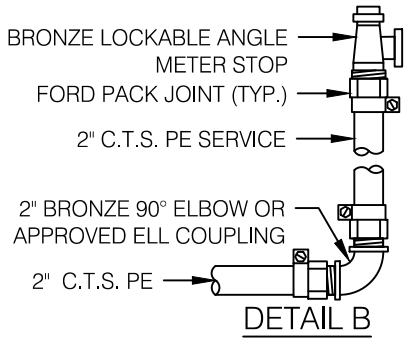


NOTES:

1. METER SHALL BE SENSUS OMNI C2 WITH A 520 M SMART POINT. METER SHALL BE FURNISHED AND INSTALLED BY THE CITY AT THE CONTRACTORS EXPENSE. 1 ½ " AND 2 " POLYETHYLENE PIPE SHALL BE COPPER TUBE SIZE (C.T.S) WITH A PRESSURE RATING OF 200 PSI. IF NOT IMMEDIATELY INSTALLED, THE CONTRACTOR SHALL FABRICATE AND INSTALL A JUMPER, EQUAL TO THE LAY LENGTH OF THE METER TO BE INSTALLED (SEE DETAIL A).
2. WHEN FIELD CONDITIONS WILL NOT ALLOW THE MINIMUM RADIUS, USE DETAIL B FOR REQUIRED INSTALLATION.
3. METER BOX SHALL BE LIGHTWEIGHT FIBERGLASS REINFORCED PLASTIC OR APPROVED EQUAL.
4. SUBMIT DETAILS TO THE CITY ENGINEER FOR APPROVAL ON SERVICES LARGER THAN 2" IN SIZE.
5. TRACER WIRE SHALL BE ADDED TO PIPING FROM MAIN TO METER.



DETAIL A



DETAIL B

5130

1" CONNECTION WITH SAMPLE STATION

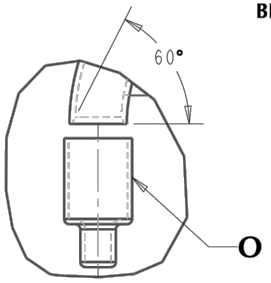
APPROVED:

MARCH 2022

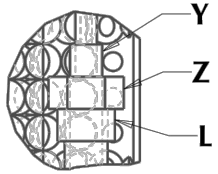
CITY OF DIXON

ENGINEERING

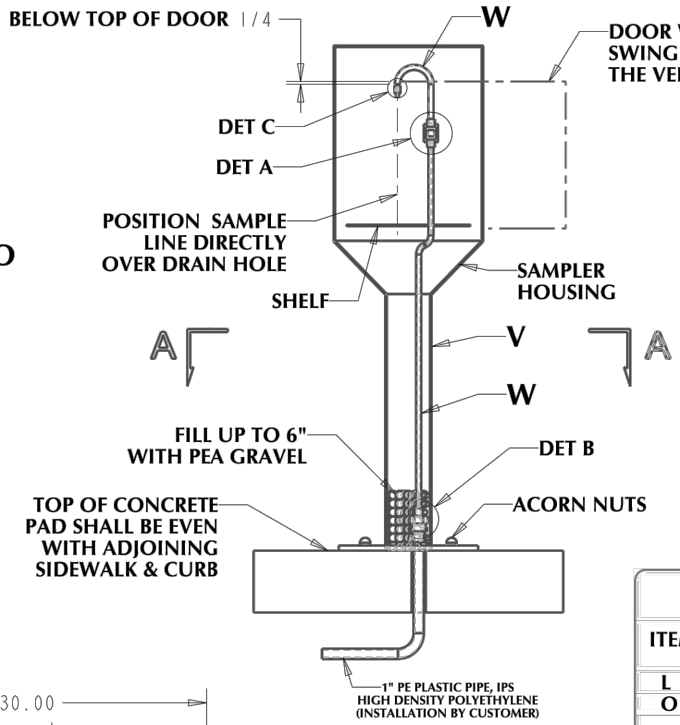
STANDARD DETAIL

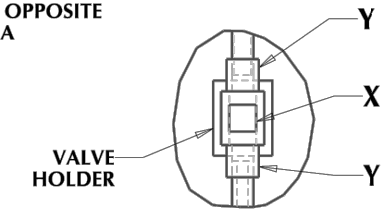


DETAIL C
SCALE 1.000

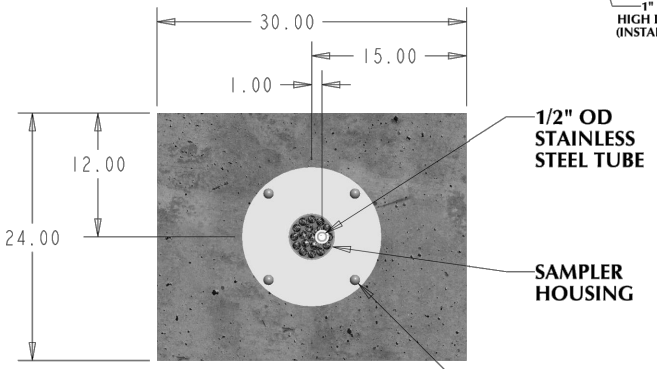


DETAIL B
SCALE 0.375





DETAIL A
SCALE 0.375



PROFILE A-A
N.T.S.

TYPICAL INSTALLATION FOR MX WATER QUALITY SAMPLING STATION

TIE INTO EXISTING MAIN -- N.T.S.

PARTS LIST

ITEM	QTY	DESCRIPTION
L	1	1" STRAIGHT COUPLING, FIP x PE-PS, LEAD FREE, (OPTIONAL)
O	1	VINYL CAP

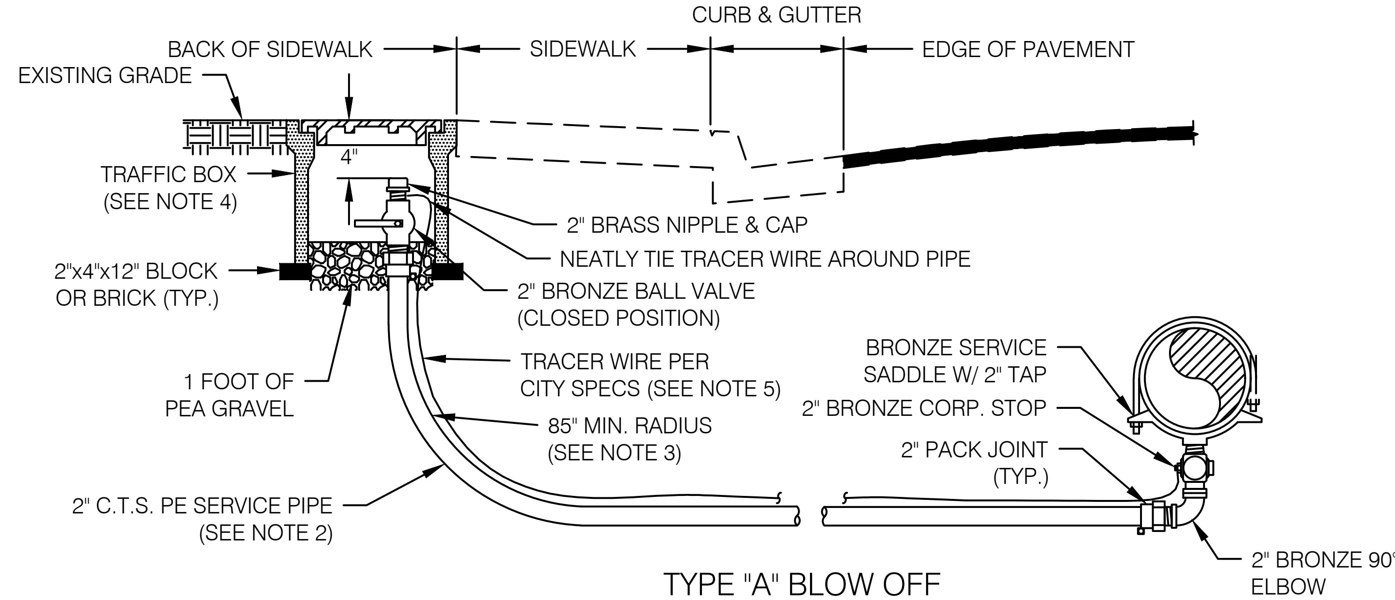
MX WATER QUALITY SAMPLING STATION ASSEMBLY Model No. SDMX-H SUPPLIED BY STEEL SOURCE CONSTRUCTION

ITEM	QTY	DESCRIPTION
V	1	S/S HOUSING 11" DIA. x 46"; OPTIONS: 1. CYLINDER LOCK
W	2	1/2" OD 304 S/S TUBE 2. POWDER COAT
X	1	1/2" S/S BALL VALVE, FPT 3. CLIENT LOGO (ETCHED)
Y	3	1/2" S/S COMPRESSION FITTING x NPT
Z	1	1" x 1/2" REDUCER, NPT x FFT

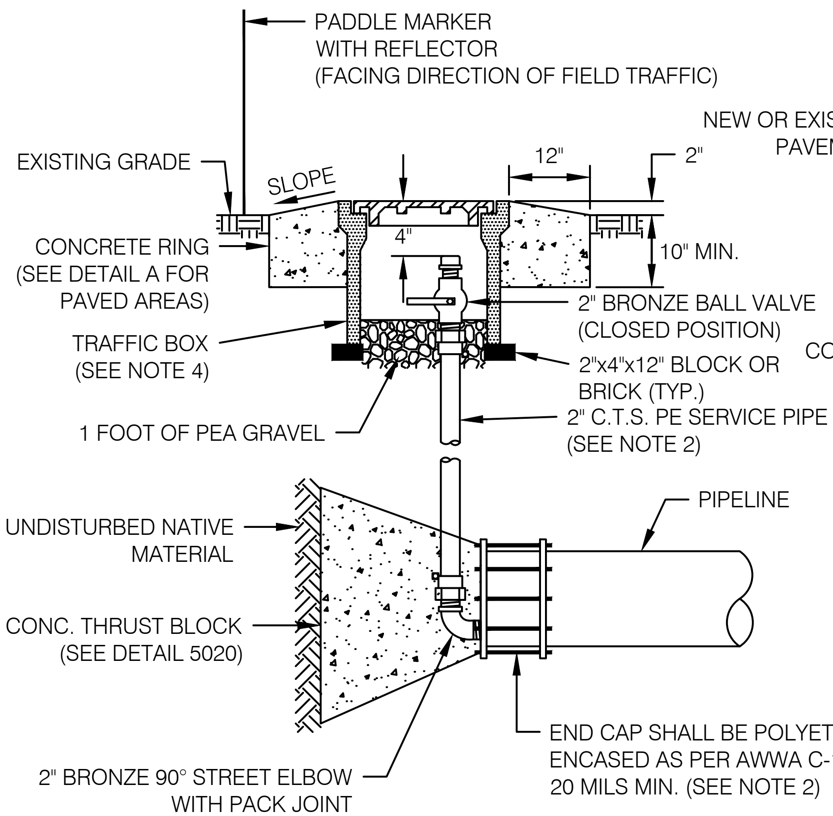
NOTE: ALL PIPE FITINGS IN CONTACT WITH POTABLE WATER SHALL BE LEAD FREE AND COMPLIANT TO NSF-61/SECTION 8

NOTES:

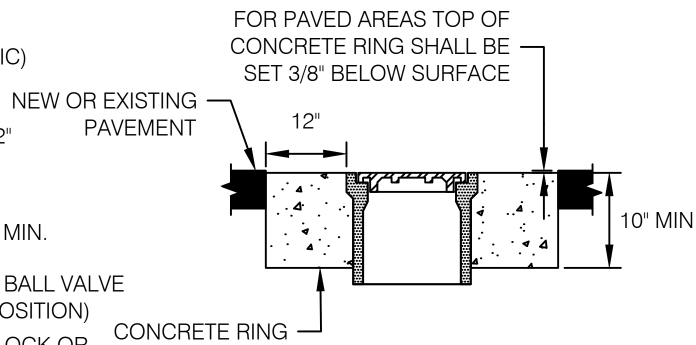
1. SAMPLE STATION SHALL BE POWDER COATED IN RAL 6028 (FOREST GREEN).
2. SAMPLE STATION SHALL HAVE CITY LOGO ETCHED ON FLAT SIDE IN BACK.



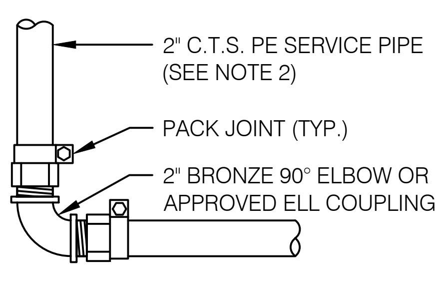
TYPE "A" BLOW OFF



TYPE "B" BLOW OFF



DETAIL A

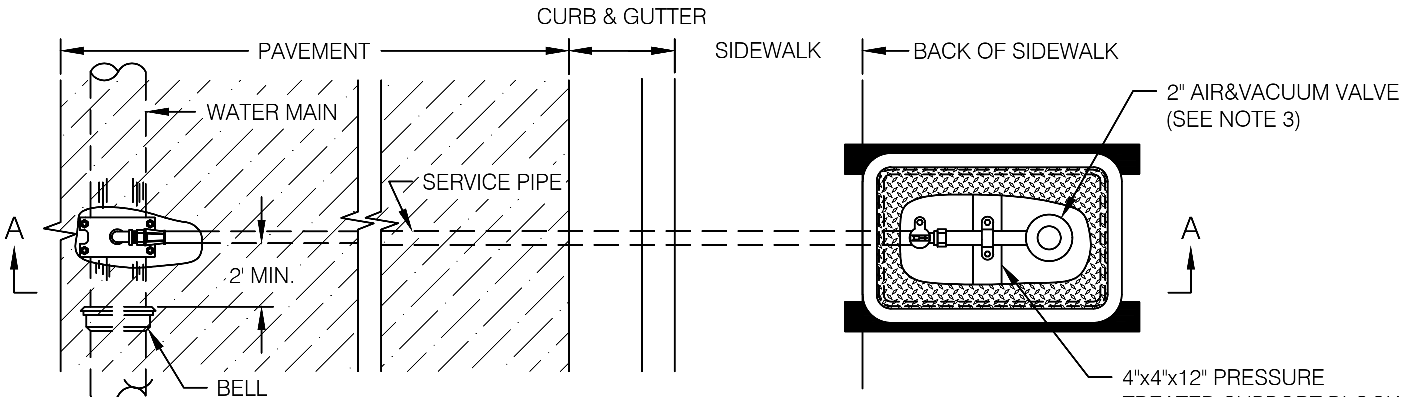


DETAIL B
(SEE NOTE 3)

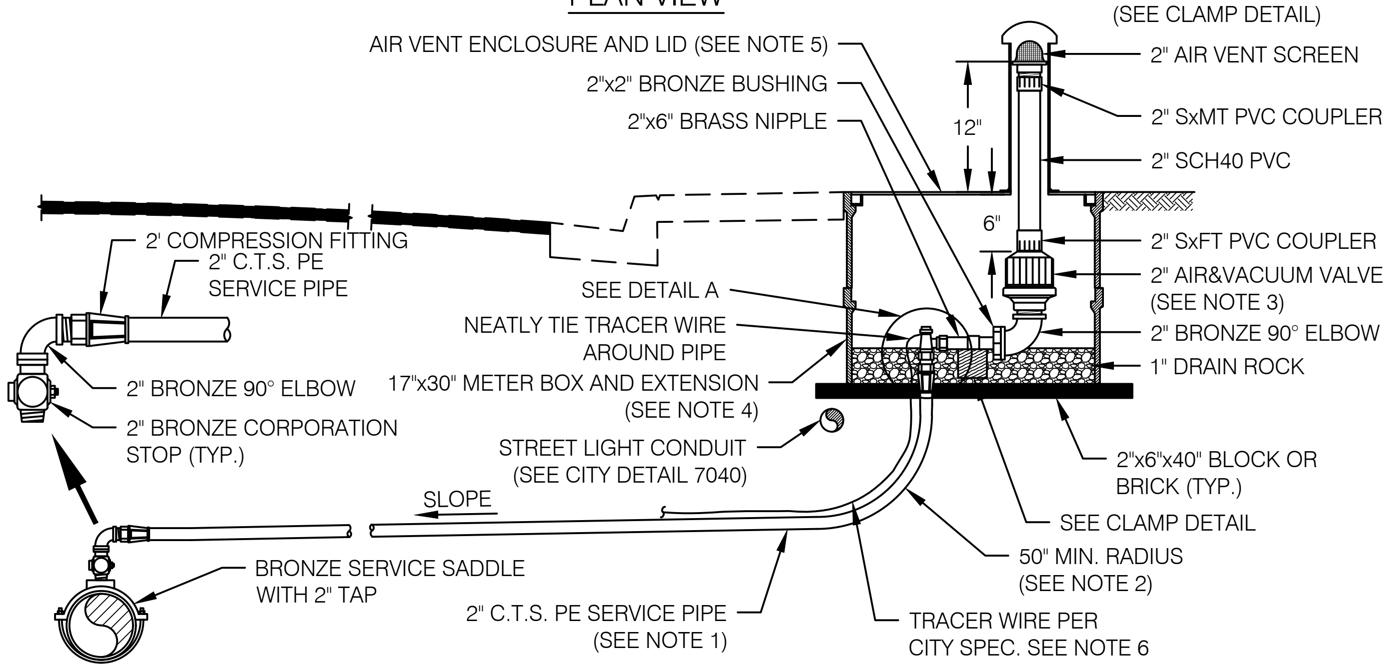
NOTES:

1. BLOW OFFS SHALL BE INSTALLED ON ALL END RUNS OF WATER MAINS WHETHER TEMPORARY OR PERMANENT.
2. POLYETHYLENE PIPE SHALL BE COPPER TUBE SIZE (C.T.S.) WITH A PRESSURE RATING OF 200 PSI.
3. WHEN FIELD CONDITIONS WILL NOT ALLOW THE MINIMUM RADIUS, USE DETAIL B FOR REQUIRED INSTALLATION.
4. TRAFFIC VALVE BOX SHALL BE CHRISTY MODEL G-12 WITH CAST IRON LID MARKED "WATER" OR APPROVED EQUAL.
5. TRACER WIRE SHALL BE ADDED TO PIPING FROM MAIN TO BLOWOFF.

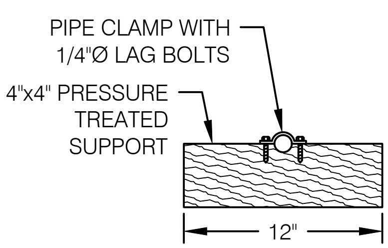
DIXON CALIFORNIA CITY OF DIXON ENGINEERING STANDARD DETAIL	REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA CIVIL APPROVED: MARCH 2022	BLOW OFF ASSEMBLIES	5140



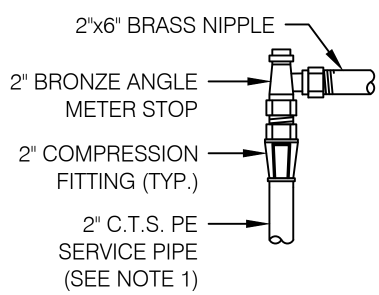
PLAN VIEW



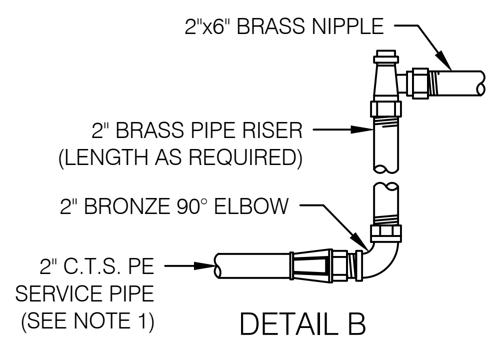
SECTION A-A



CLAMP DETAIL



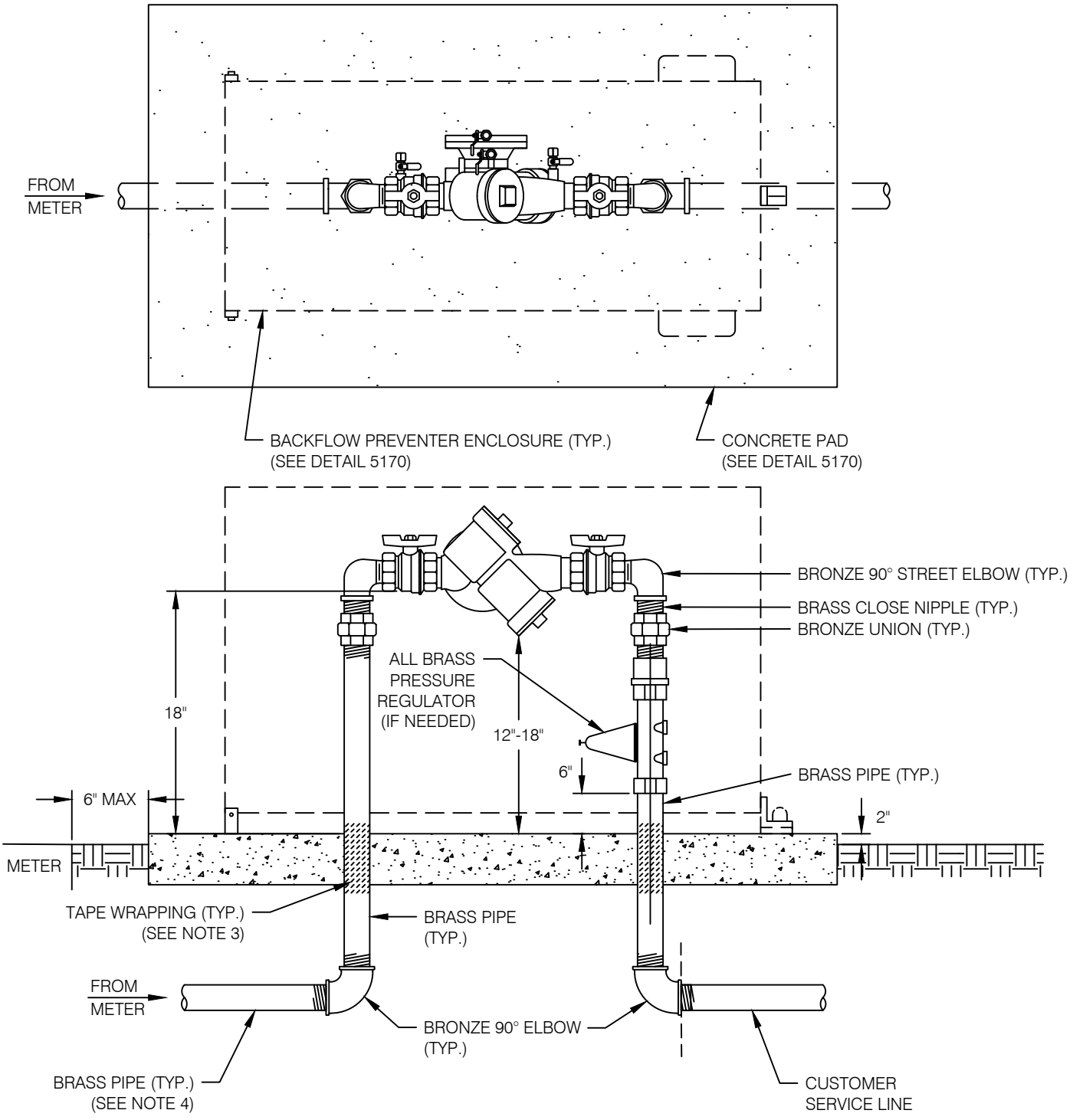
DETAIL A



DETAIL B

NOTES:
1. 6"-14" WATER MAIN: 2" C.T.S. PE SERVICE PIPE SHALL BE USED (SHOWN). 16" AND GREATER: SHALL USE APPROPRIATE SIZE WITH APPROPRIATE FITTINGS AND COUPLERS, AS DIRECTED BY THE CITY ENGINEER.
2. WHEN THE FIELD CONDITIONS WILL NOT ALLOW THE MINIMUM RADIUS SHOWN, USE DETAIL B FOR THE REQUIRED INSTALLATION.
3. AIR & VACUUM VALVE SHALL BE BERMAD MODEL 4415 OR APPROVED EQUAL.
4. METER BOX SHALL BE LIGHTWEIGHT FIBERGLASS REINFORCED PLASTIC OR APPROVED EQUAL.
5. AIR VENT ENCLOSURE AND LID SHALL BE *PLACER WATERWORKS* MODEL: PW/AE3618-MN OR APPROVED EQUAL.
6. TRACER WIRE SHALL BE ADDED TO PIPING FROM MAIN TO AVV.

5150	AIR & VACUUM VALVE ASSEMBLY	APPROVED: MARCH 2022	CITY OF DIXON ENGINEERING STANDARD DETAIL



NOTES:

1. ALL BACKFLOW PREVENTERS SHALL BE FROM THE APPROVED LIST OF THE FOUNDATION FOR CROSS CONNECTION CONTROL AND HYDRAULIC RESEARCH AT THE UNIVERSITY OF SOUTHERN CALIFORNIA. THEY SHALL BE TESTED BY THE CONTRACTOR AND CERTIFICATION PROVIDED TO THE CITY, PRIOR TO ACTIVATION.
2. 3/4"-2" BACKFLOW PREVENTERS SHALL HAVE AN INSULATED CAGE, OR CAGE WITH A FREEZE BAG, PROVIDED AT THE CONTRACTORS EXPENSE.
3. BRASS PIPING SHALL BE WRAPPED WITH PROTECTIVE TAPE, 20 MILS MINIMUM, THROUGH CONCRETE SLAB.
4. SOLID BRASS FROM METER TO RISER.
5. SEE DETAIL 5170 FOR BACKFLOW PREVENTER ENCLOSURE AND CONCRETE PAD DETAILS.

CITY OF DIXON

ENGINEERING

STANDARD DETAIL

REGISTERED PROFESSIONAL ENGINEER
DEBORAH A. FLYNN PORTER
78544
CIVIL
STATE OF CALIFORNIA

APPROVED: MARCH 2022

3/4" - 2" REDUCED PRESSURE BACKFLOW PREVENTER INSTALLATION

5160

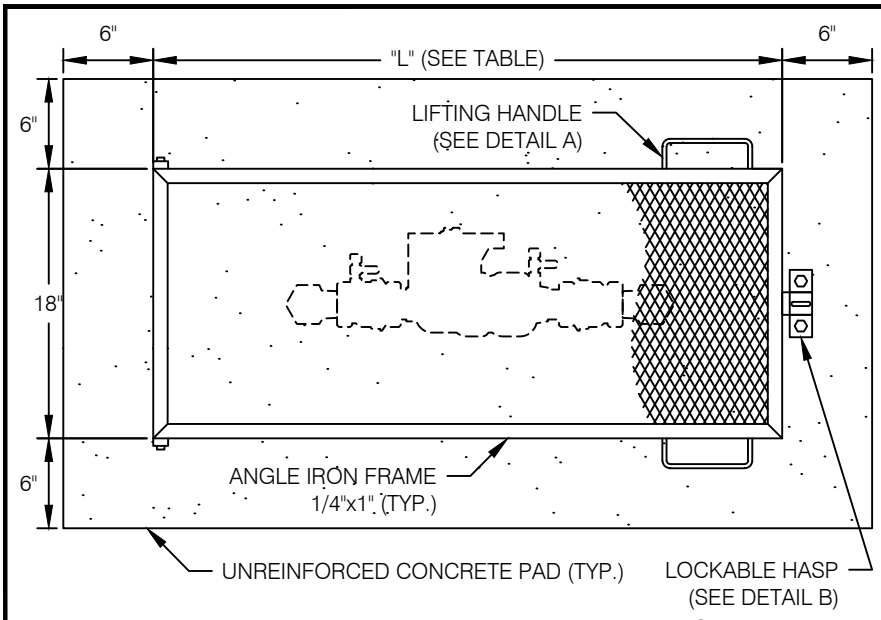
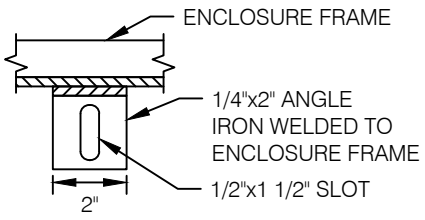
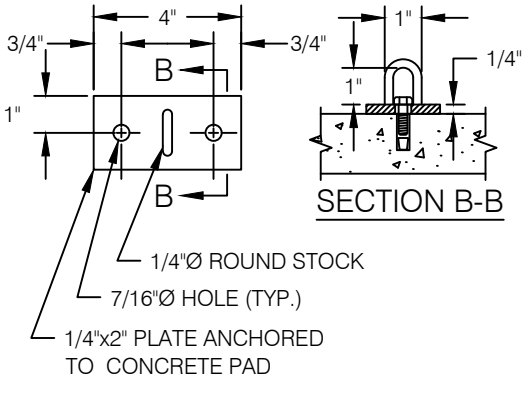
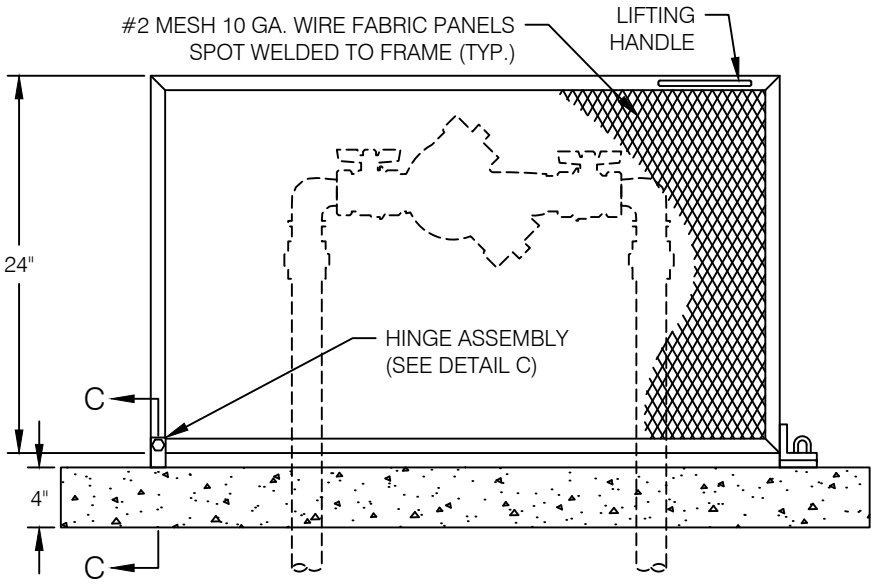


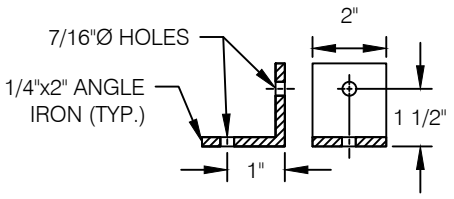
TABLE	
BFP SIZE	L
3/4" - 1"	30"
1-1/2" - 2"	42"



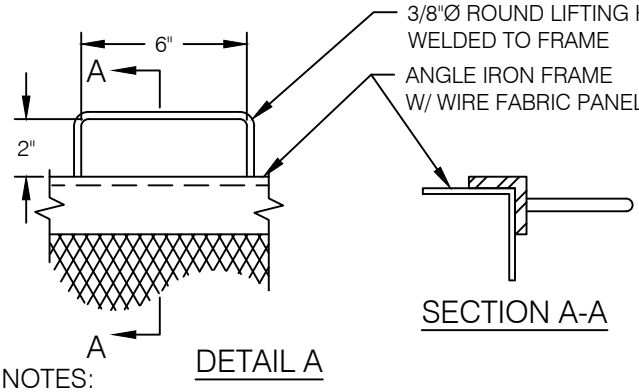


DETAIL B



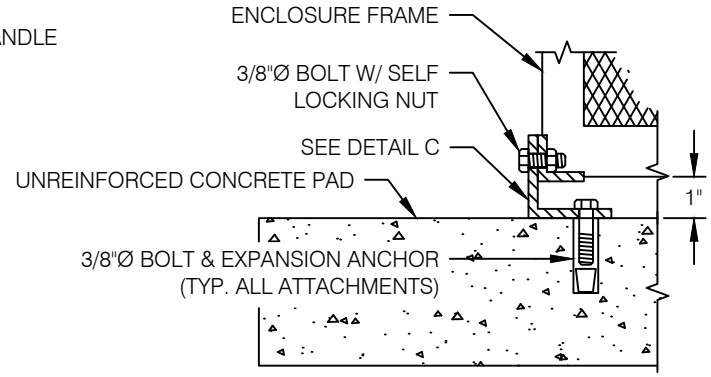


DETAIL C



SECTION A-A

DETAIL A

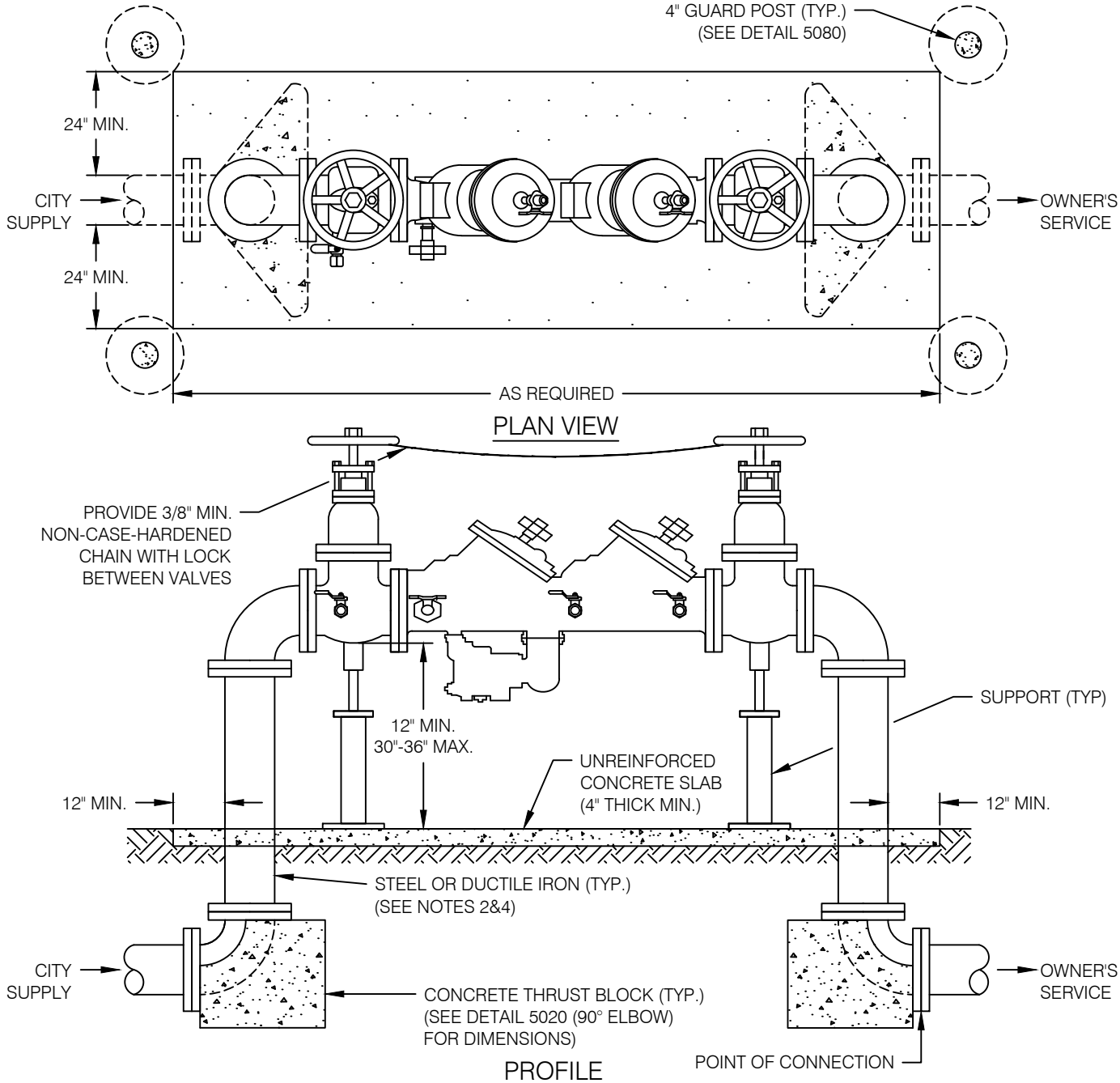


SECTION C-C

NOTES:

1. CONTRACTOR SHALL INSTALL A PREFABRICATED PROTECTIVE ENCLOSURE, TO THE SPECIFICATIONS SHOWN. ENCLOSURE DETAILS SHALL BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL.
2. THE BACKFLOW PREVENTER PROTECTIVE ENCLOSURE SHALL BE POWDER COATED "GREEN" AND MISCELLANEOUS STEEL SHALL BE GALVANIZED.
3. THE CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI. ALL CEMENT SHALL BE PORTLAND TYPE II WITH A MINIMUM OF 5 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE.
4. 3/4"-2" BACKFLOW PREVENTERS SHALL HAVE AN INSULATED CAGE, OR UNINSULATED CAGE WITH A FREEZE BAG. FREEZE BAGS ARE OPTIONAL FOR DEVICES LARGER THAN 2".

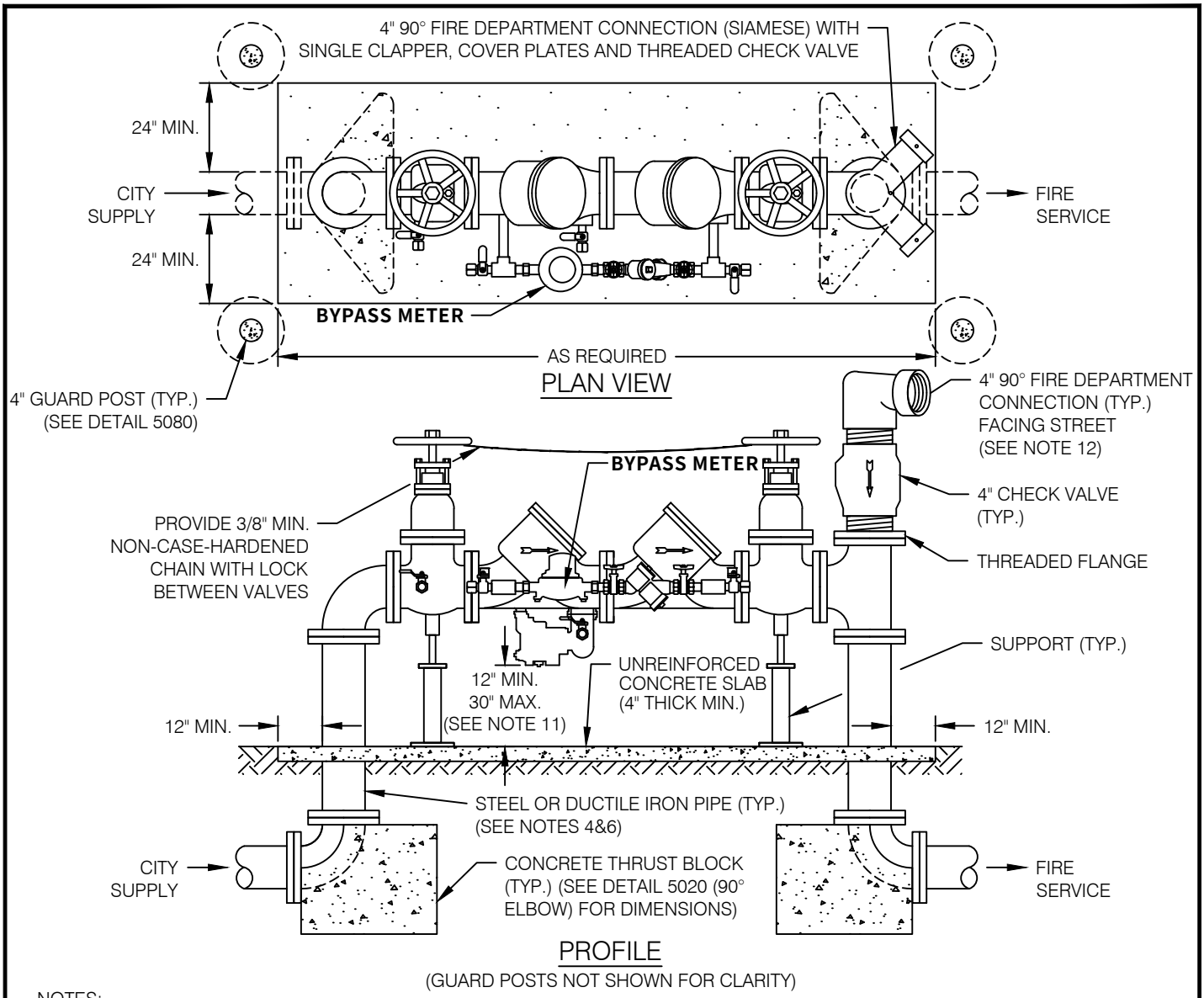
5170	REDUCED PRESSURE BACKFLOW PREVENTER PROTECTIVE ENCLOSURE	REGISTERED PROFESSIONAL ENGINEER DEBORAH A. FRASER 78544 CIVIL STATE OF CALIFORNIA APPROVED: MARCH 2022	CITY OF DIXON ENGINEERING STANDARD DETAIL



NOTES:

1. ALL BACKFLOW PREVENTERS SHALL BE FROM THE APPROVED LIST OF THE FOUNDATION FOR CROSS CONNECTION CONTROL AND HYDRAULIC RESEARCH AT THE UNIVERSITY OF SOUTHERN CALIFORNIA. THEY SHALL BE TESTED BY THE CONTRACTOR AND CERTIFICATION PROVIDED TO THE CITY PRIOR TO ACTIVATION.
2. ALL STEEL PIPE SHALL BE 1/4" WALL AS PER AWWA C-200; LINED AND COATED WITH FUSION BONDED EPOXY AS PER AWWA C-213, 20 MILS MINIMUM.
3. ALL STEEL FLANGES SHALL BE CLASS D AS PER AWWA C-207.
4. ALL DUCTILE IRON FITTINGS SHALL MEET AWWA C-110 & C-153, CLASS 150. THE INTERIOR SHALL BE MORTAR LINED AS PER AWWA C-104 AND THE EXTERIOR SHALL HAVE A COAL TAR COATING AS PER AWWA C-203, BELOW GRADE AND EPOXY COATING ABOVE GRADE PER AWWA C510
5. ALL NUTS AND BOLTS BELOW GROUND SHALL BE POLYETHYLENE ENCASED AS PER AWWA C-105 OR TAPE WRAPPED AS PER AWWA C-209, 20 MILS MINIMUM IN BOTH CASES.

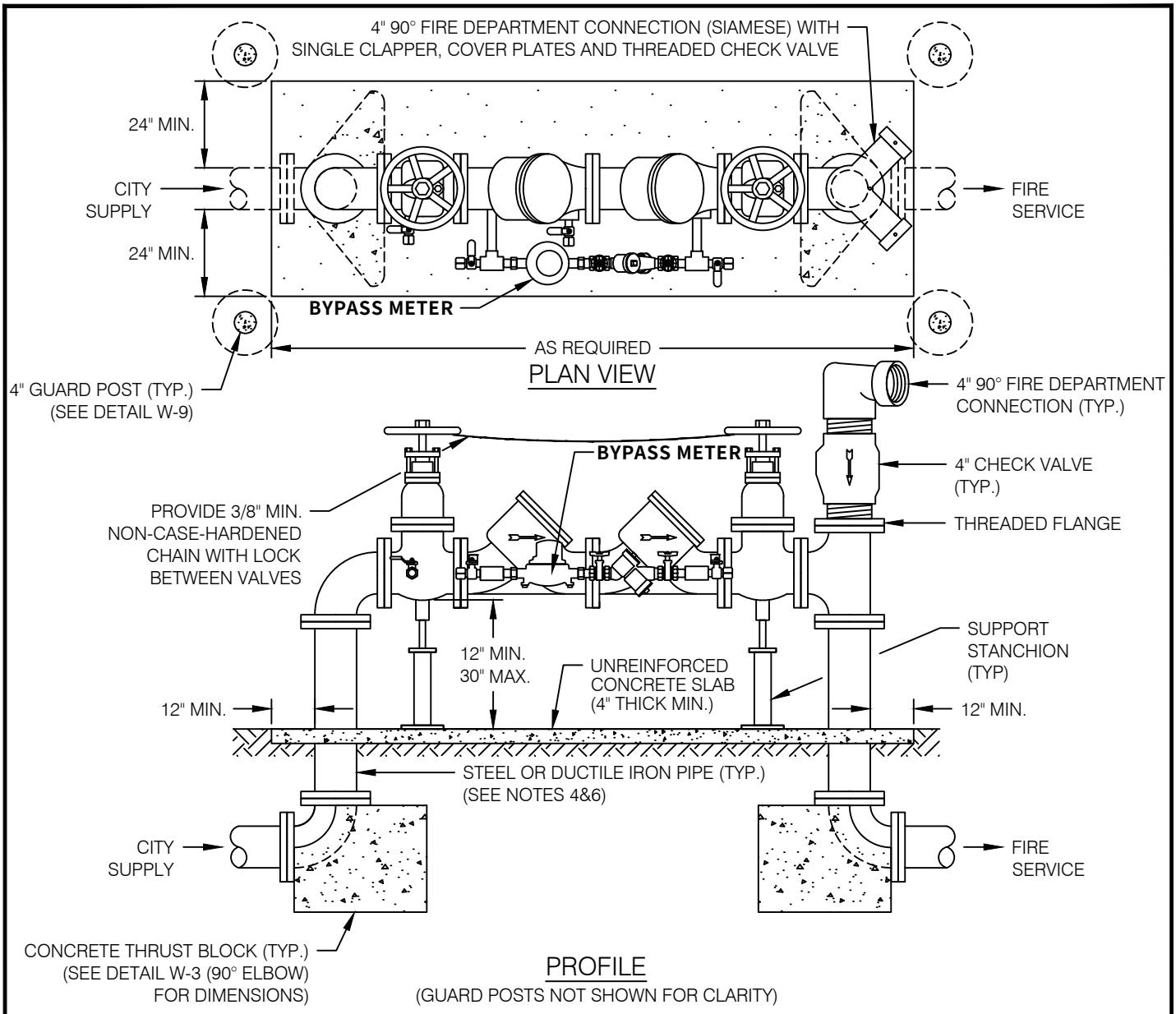
CITY OF DIXON ENGINEERING STANDARD DETAIL	REGISTERED PROFESSIONAL ENGINEER OBERNAH A. TAYSER 78548 CIVIL STATE OF CALIFORNIA APPROVED: JAN 2023	3" - 10" REDUCED PRESSURE BACKFLOW PREVENTER INSTALLATION	5180



NOTES:

1. ALL BACKFLOW PREVENTERS SHALL BE FROM THE APPROVED LIST OF THE FOUNDATION FOR CROSS CONNECTION CONTROL AND HYDRAULIC RESEARCH AT THE UNIVERSITY OF SOUTHERN CALIFORNIA. THE REDUCED PRESSURE ASSEMBLY AND THE BYPASS ASSEMBLY SHALL BE TESTED BY THE CONTRACTOR AND PROVIDED TO THE CITY PRIOR TO ACTIVATION.
2. BACKFLOW PREVENTER MUST BE CHAINED OPEN AND HAVE TAMPER SWITCHES INSTALLED FOR SPRINKLER SYSTEMS.
3. FIRE DEPARTMENT CONNECTION SHALL CONSIST OF TWO 2-1/2" FEMALE CONNECTIONS, UNLESS OTHERWISE SPECIFIED, WITH METAL COVER PLATES ONLY, AND MUST BE FM/UL APPROVED WITH STAMPED MARKINGS ON THE DEVICE.
4. ALL STEEL PIPE SHALL BE 1/4" WALL AS PER AWWA C-200; LINED AND COATED WITH FUSION BONDED EPOXY AS PER AWWA C-213, 20 MILS MINIMUM.
5. ALL STEEL FLANGES SHALL BE CLASS D AS PER AWWA C-207.
6. ALL DUCTILE IRON PIPE AND FITTINGS SHALL MEET AWWA C-110 & C-153, CLASS 150. THE INTERIOR SHALL BE MORTAR LINED AS PER AWWA C-104 AND EXTERIOR SHALL HAVE A COAL TAR COATING AS PER AWWA C-203.
7. ALL NUTS AND BOLTS BELOW GROUND SHALL BE POLYETHYLENE ENCASED AS PER AWWA C-105 OR TAPE WRAPPED AS PER AWWA C-209, 20 MILS MINIMUM IN BOTH CASES. STAINLESS STEEL MAY BE SUBSTITUTED.
8. **FIRE DEPARTMENT CONNECTION AND CHECK VALVE SHALL BE PROPERLY PREPARED AND PAINTED WITH "YELLOW" INDUSTRIAL ENAMEL PAINT.**
9. **THE RELIEF VALVE SHALL BE A MINIMUM OF 12" AND A MAXAIMUM OF 30" FROM THE TOP OF THE FINISHED CONCRETE SPLASH PAD**
10. **THE FDC SHALL FACE THE STREET OR APPROVED FIRE ACCESS ROAD UNLESS APPROVED OTHER BY THE FIRE MARSHAL. FDC SHALL MEET CALIFORNIA FIRE CODE (CFC) SECTION 912 STANDARDS AND CFC CHAPTER 80. ALL FDC LOCATIONS MUST BE APPROVED BY THE FIRE DEPARTMENT**

5190	REDUCED PRESSURE DETECTOR ASSEMBLY (RPDA)	APPROVED: JAN 2023	CITY OF DIXON ENGINEERING STANDARD DETAIL



NOTES:

1. **ALL BACKFLOW PREVENTERS SHALL BE FROM THE APPROVED LIST OF THE FOUNDATION FOR CROSS CONNECTION CONTROL AND HYDRAULIC RESEARCH AT THE UNIVERSITY OF SOUTHER CALIFORNIA. THE DOUBLE CHECK AND BYPASS ASSEMBLY SHALL BE TESTED BY THE CONTRACTOR AND PROVIDED TO THE CITY PRIOR TO ACTIVATION.**
2. BACKFLOW PREVENTER MUST BE CHAINED OPEN AND HAVE TAMPER SWITCHES INSTALLED FOR SPRINKLER SYSTEMS.
3. FIRE DEPARTMENT CONNECTION SHALL CONSIST OF TWO 2-1/2" FEMALE CONNECTIONS, UNLESS OTHERWISE SPECIFIED, WITH METAL COVER PLATES ONLY, AND MUST BE FM/UL APPROVED WITH STAMPED MARKINGS ON THE DEVICE.
4. ALL STEEL PIPE SHALL BE 1/4" WALL AS PER AWWA C-200; LINED AND COATED WITH FUSION BONDED EPOXY AS PER AWWA C-213, 20 MILS MINIMUM.
5. ALL STEEL FLANGES SHALL BE CLASS D AS PER AWWA C-207.
6. ALL DUCTILE IRON PIPE AND FITTINGS SHALL MEET AWWA C-110 & C-153, CLASS 150. THE INTERIOR SHALL BE MORTAR LINED AS PER AWWA C-104 AND EXTERIOR SHALL HAVE A COAL TAR COATING AS PER AWWA C-203.
7. ALL NUTS AND BOLTS BELOW GROUND SHALL BE POLYETHYLENE ENCASED AS PER AWWA C-105 OR TAPE WRAPPED AS PER AWWA C-209, 20 MILS MINIMUM IN BOTH CASES.
8. **FIRE DEPARTMENT CONNECTION AND CHECK VALVE SHALL BE PROPERLY PREPARED AND PAINTED WITH "YELLOW" INDUSTRIAL ENAMEL PAINT**
9. **THE FDC SHALL FACE THE STREET OR APPROVED FIRE ACCESS ROAD UNLESS APPROVED OTHER BY THE FIRE MARSHAL. FDC SHALL MEET CALIFORNIA FIRE CODE (CFC) SECTION 912 STANDARDS AND CFC CHAPTER 80. ALL FDC LOCATIONS MUST BE APPROVED BY THE FIRE DEPARTMENT**

5191	DOUBLE CHECK DETECTOR ASSEMBLY	APPROVED: JAN 2023	CITY OF DIXON ENGINEERING STANDARD DETAIL

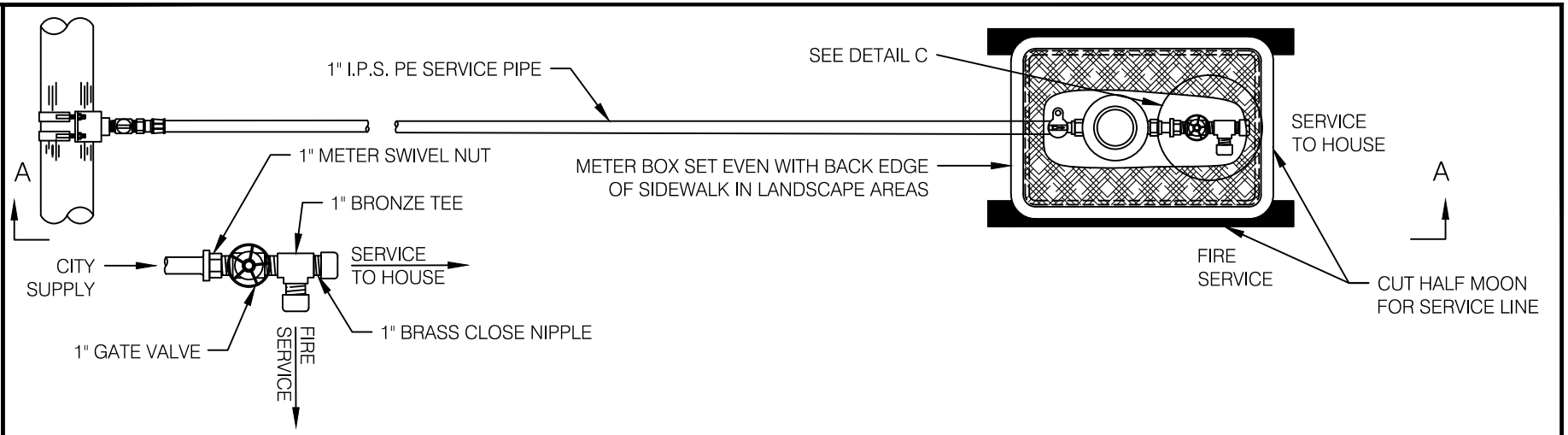
CITY OF DIXON

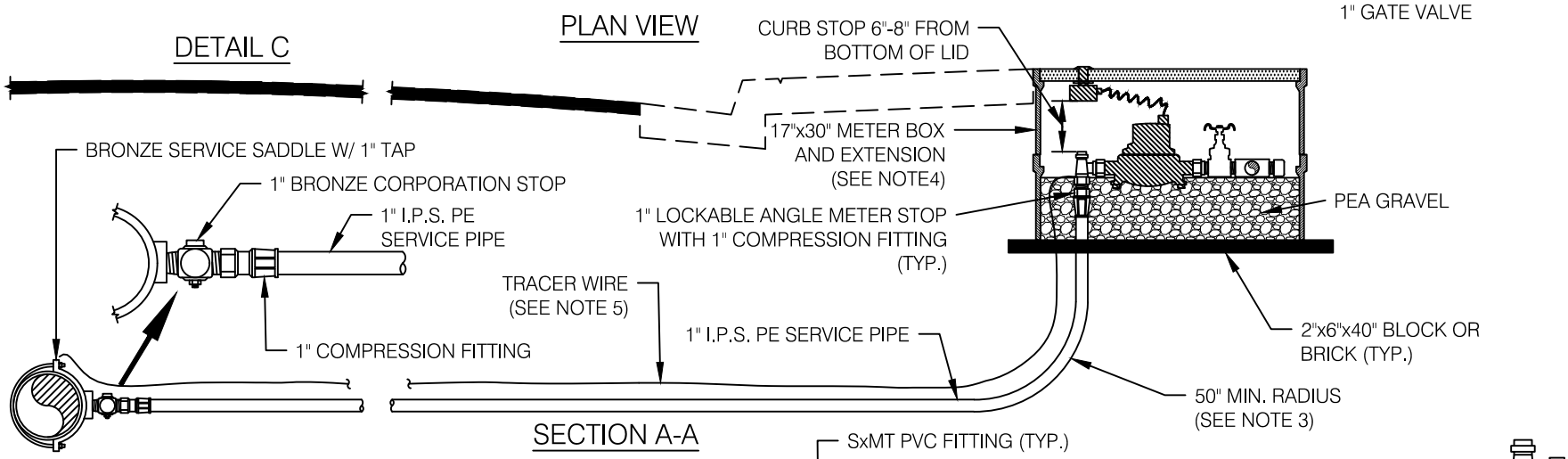
ENGINEERING STANDARD DETAIL

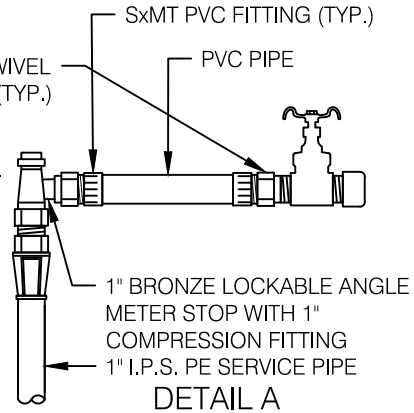
APPROVED: MARCH 2022

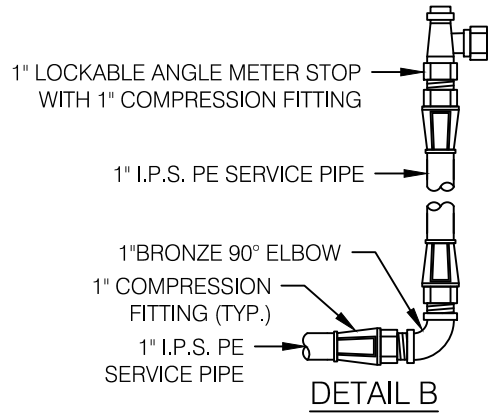
RESIDENTIAL FIRE SPRINKLER SERVICE INSTALLATION

5200



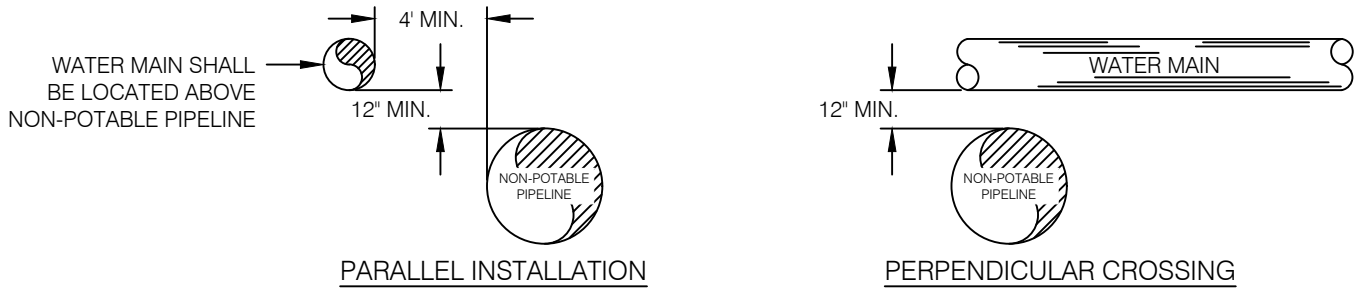






NOTES:

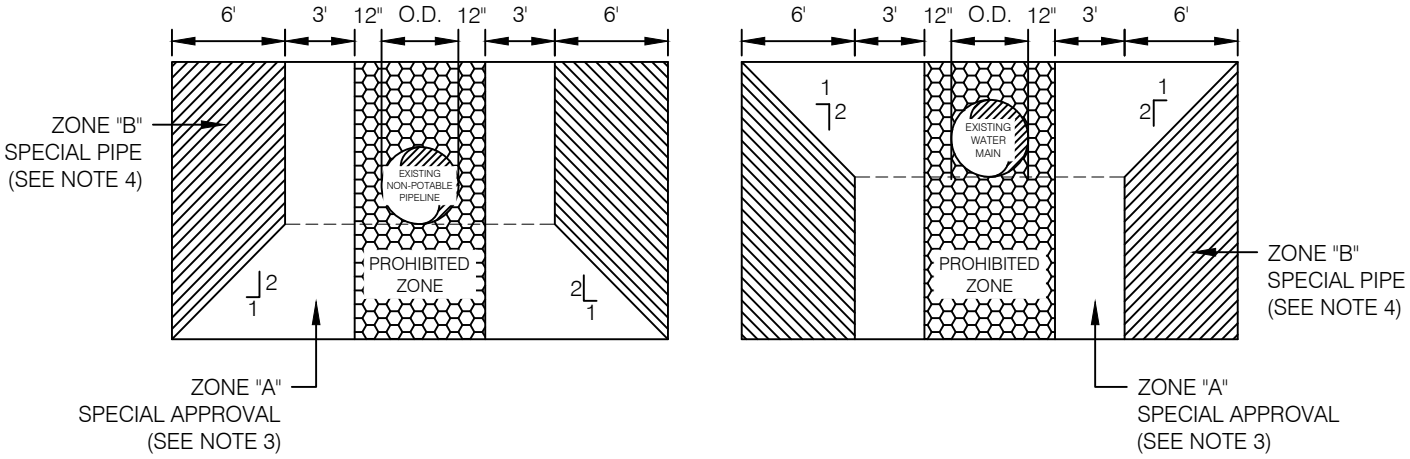
1. METER SHALL BE SENSUS MODEL SR II WITH A 520 M SMART POINT, FURNISHED AND INSTALLED BY THE CITY AT THE CONTRACTOR'S EXPENSE.
2. IF THE METER IS NOT INSTALLED IMEDIATELY, THE CONTRACTOR SHALL FABRICATE AND INSTALL A JUMPER, LENGTH SHALL BE EQUAL TO THE LAY LENGTH OF THE METER TO BE INSTALLED, SEE DETAIL A.
3. WHEN THE FIELD CONDITIONS WILL NOT ALLOW THE MINIMUM RADIUS, USE DETAIL B FOR THE REQUIRED INSTALLATION.
4. METER BOX SHALL BE LIGHTWEIGHT FIBERGLASS REINFORCED PLASTIC OR APPROVED EQUAL.
5. TRACER WIRE SHALL BE ADDED TO PIPING FROM MAIN TO METER.



PARALLEL INSTALLATION

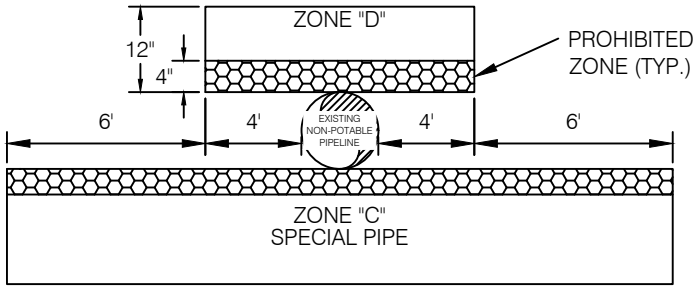
PERPENDICULAR CROSSING

BASIC SEPARATION REQUIREMENTS



WATER MAIN PARALLEL INSTALLATION
(EXISTING NON-POTABLE PIPELINE)

NON-POTABLE PARALLEL INSTALLATION
(EXISTING WATER MAIN)



PERPENDICULAR CROSSING

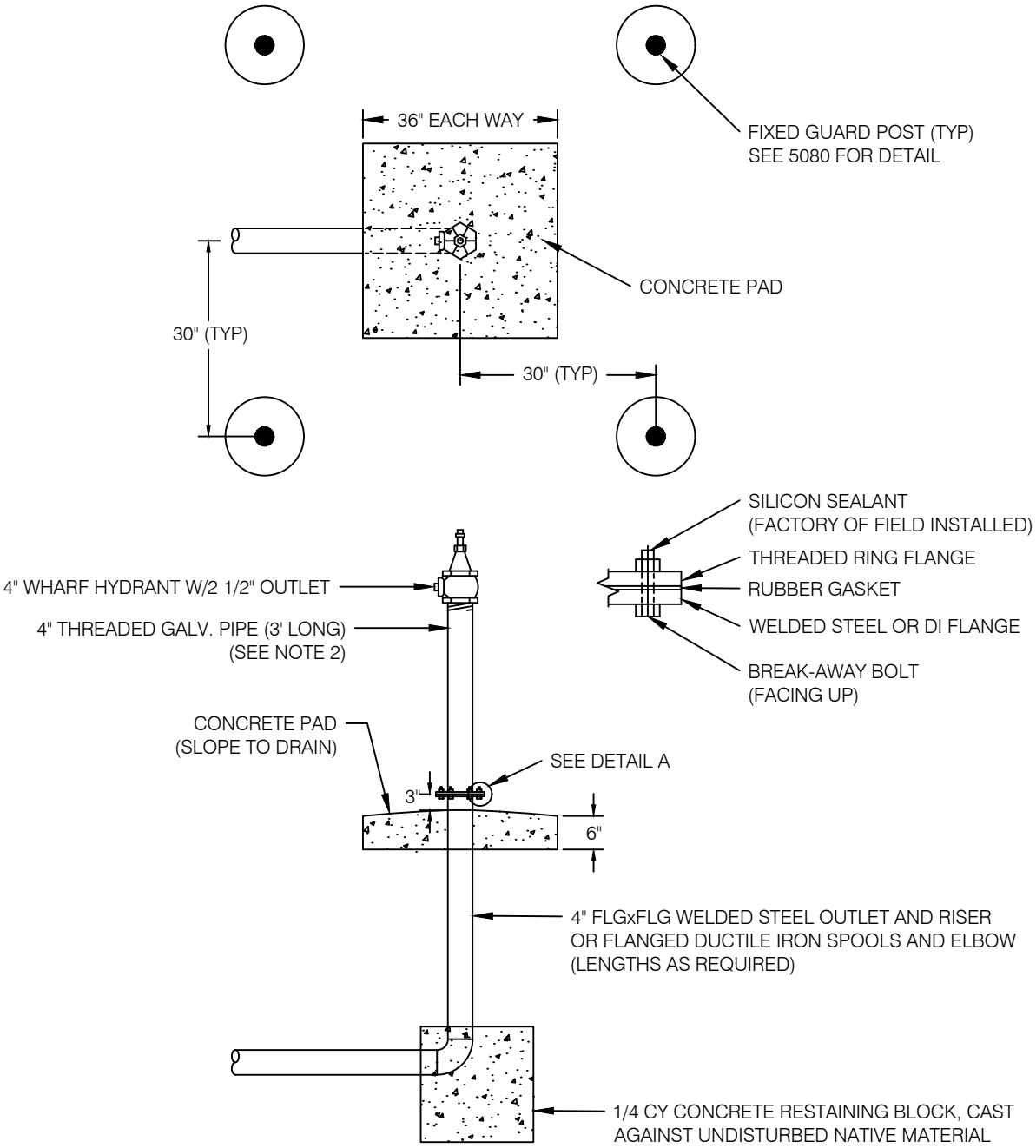
SPECIAL SEPARATION REQUIREMENTS

DIMENSIONS ARE FROM THE OUTSIDE OF THE WATER MAIN TO THE OUTSIDE OF THE NON-POTABLE PIPELINE

NOTES:

1. THE CONTRACTOR SHALL FOLLOW THE CALIFORNIA WATERWORKS STANDARD TITLE 22 CCR § 64572 FOR THE SEPARATION REQUIREMENTS BETWEEN WATER MAINS AND SANITARY SEWER GUIDELINES PREPARED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES.
2. WHEN THE BASIC SEPARATION REQUIREMENTS CANNOT BE MET, THE CONTRACTOR SHALL INSTALL WATER MAINS ACCORDING TO SPECIAL INSTALLATION REQUIREMENTS.
3. NO WATER MAINS PARALLEL TO SEWER MAINS SHALL BE INSTALLED WITHIN ZONE A WITHOUT SPECIAL APPROVAL FROM THE DEPARTMENT OF HEALTH SERVICES.
4. WHEN LOCATED IN ZONE B, THE WATER MAIN SHALL BE CLASS 305 PVC, DR 14 PER AWWA C900 OR EQUIVALENT.

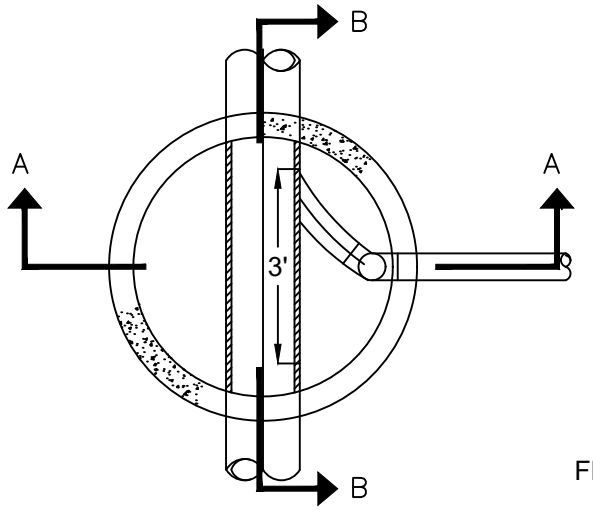
5210	WATER & NON-POTABLE PIPELINE SEPARATION DETAIL	REN J. SARON, PROFESSIONAL ENGINEER, DEBORAH, 78544, CIVIL, STATE OF CALIFORNIA APPROVED: MARCH 2022	CITY OF DIXON ENGINEERING STANDARD DETAIL



NOTES:

1. THE CITY INSPECTOR SHALL DETERMINE THE FINAL LOCATION OF THE 4" WHARF HYDRANT AND GUARD POSTS.
2. AFTER INSTALLATION THE THREADED HYDRANT RISER SHALL BE PROPERLY PREPARED, PRIMED AND PAINTED "BRIGHT RED" WITH INDUSTRIAL GRADE EPOXY PAINT.
3. ALL UNDERGROUND STEEL PIPE AND FITTINGS SHALL BE LINED AND COATED WITH MULTI-PURPOSE EPOXY OR APPROVED EQUAL, EXCEPT FLANGE FACES OR WHERE NOTED ELSEWHERE IN THE CITY'S STANDARD SPECIFICATIONS AND DETAILS.
4. ALL BELOW GROUND NUTS, BOLTS AND MISCELLANEOUS STEEL SHALL BE TAPE WRAPPED, 20 MILS MINIMUM.
5. THE CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI. ALL CEMENT SHALL BE TYPE II PORTLAND, WITH A MINIMUM OF SACKS PER CUBIC YARD OF CONCRETE.
6. ANY CHANGES OR DEVIATIONS FROM THIS DETAIL SHALL BE APPROVED BY THE CITY INSPECTOR.
7. ALL PRIVATE WHARF HYDRANT SHALL BE BACKFLOW PROTECTED.

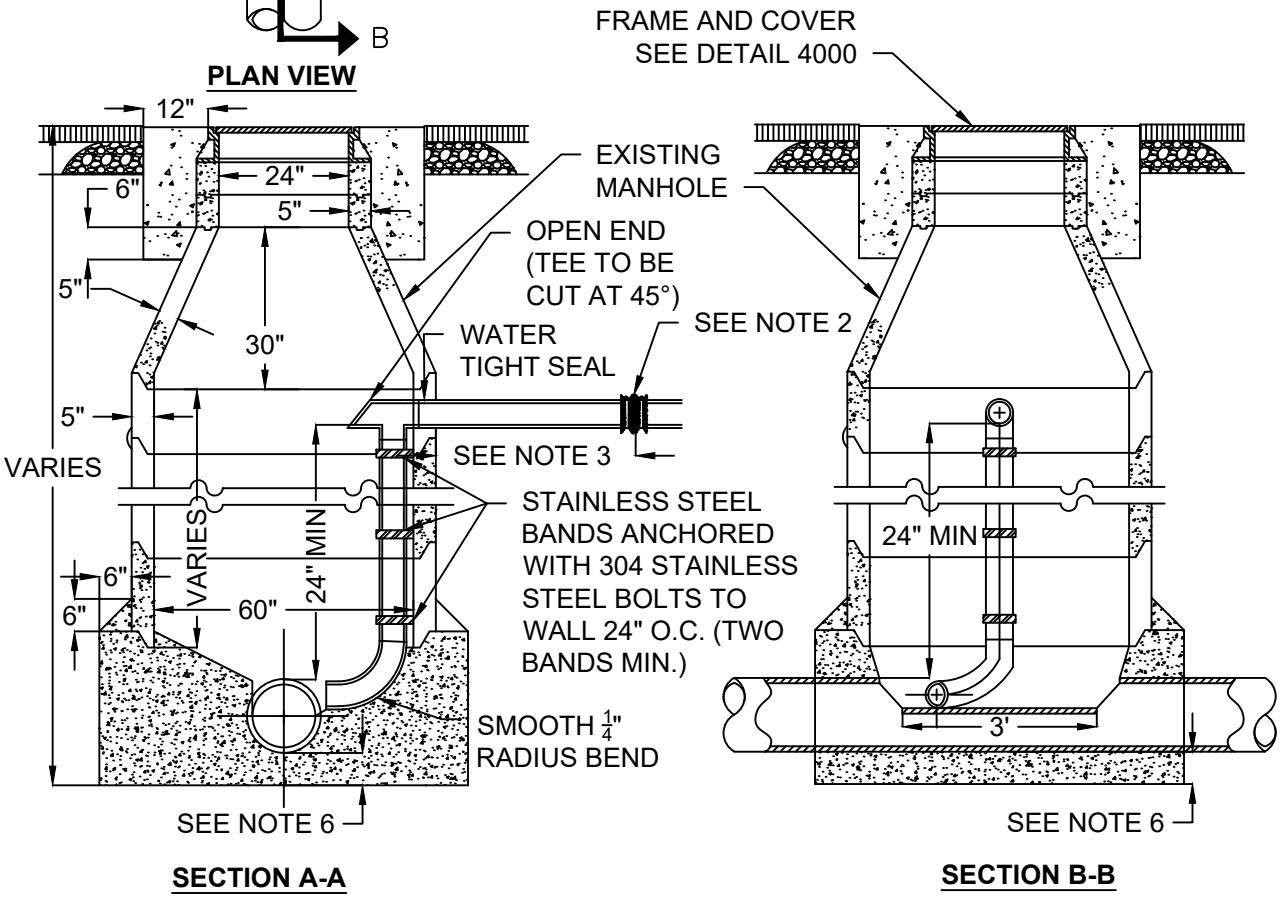
CITY OF DIXON ENGINEERING STANDARD DETAIL	REGISTERED PROFESSIONAL ENGINEER DEBORAH L. GRAY 73544 CIVIL STATE OF CALIFORNIA APPROVED: MARCH 2022	4" WHARF HYDRANT	5220



PLAN VIEW

NOTES:

1. THIS INSTALLATION SHALL BE USED ON EXISTING MANHOLES ONLY WHERE THE DIFFERENCE IN ELEVATION BETWEEN THE TOP OF THE OUTLET PIPE AND THE INVERT OF THE FEEDER OR COLLECTOR SEWER EXCEEDS 24".
2. BAND COUPLER PER APPROVED MATERIALS LIST. BAND SHALL HAVE A MINIMUM OF 3 LOCKING BAND STRAPS.



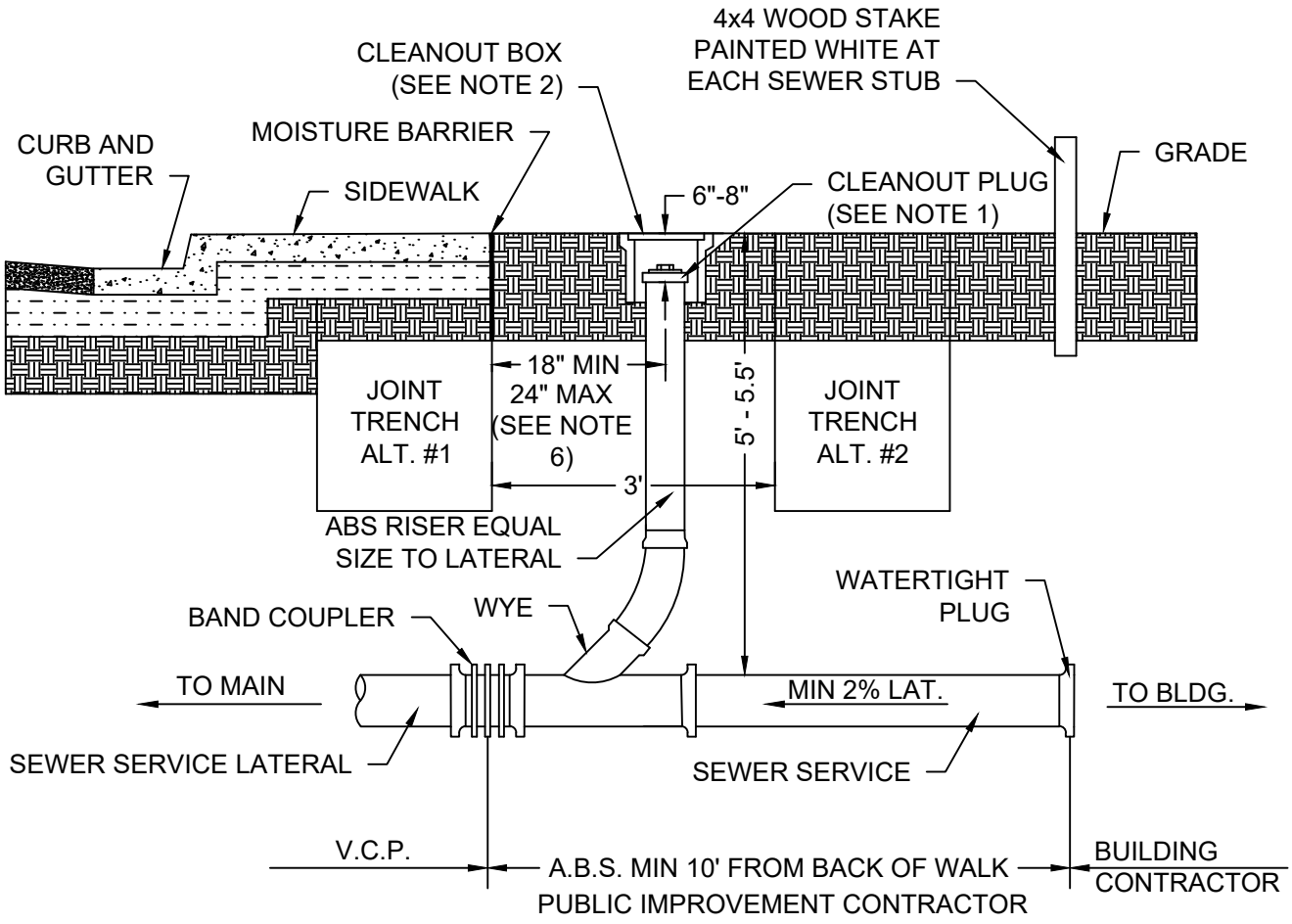
SECTION A-A

SECTION B-B

NOTES (CONTINUED):

3. 12" MAX FOR 8" TO 12" OR LARGER PIPE. 24" MAX. FOR PIPES LESS THAN 8".
4. THIS DETAIL SHALL ONLY BE USED FOR DROP PIPES 12" OR LESS. LARGER PIPES REQUIRE INDIVIDUAL DESIGN AND APPROVAL BY THE CITY ENGINEER.
5. ABS PIPE SHALL BE USED INSIDE MANHOLE.
6. MANHOLE BASES SHALL BE CAST IN PLACE PER DETAILS 4010, 4020 OR 4030 DEPENDENT UPON MAIN PIPE SIZE.
7. CAST IN PLACE MANHOLE BASES SHALL HAVE FULLY FORMED INTERIOR AND EXTERIOR WALLS. POURING THE WALLS OF THE BASE AGAINST THE WALL OF THE EXCAVATION SHALL NOT BE PERMITTED.

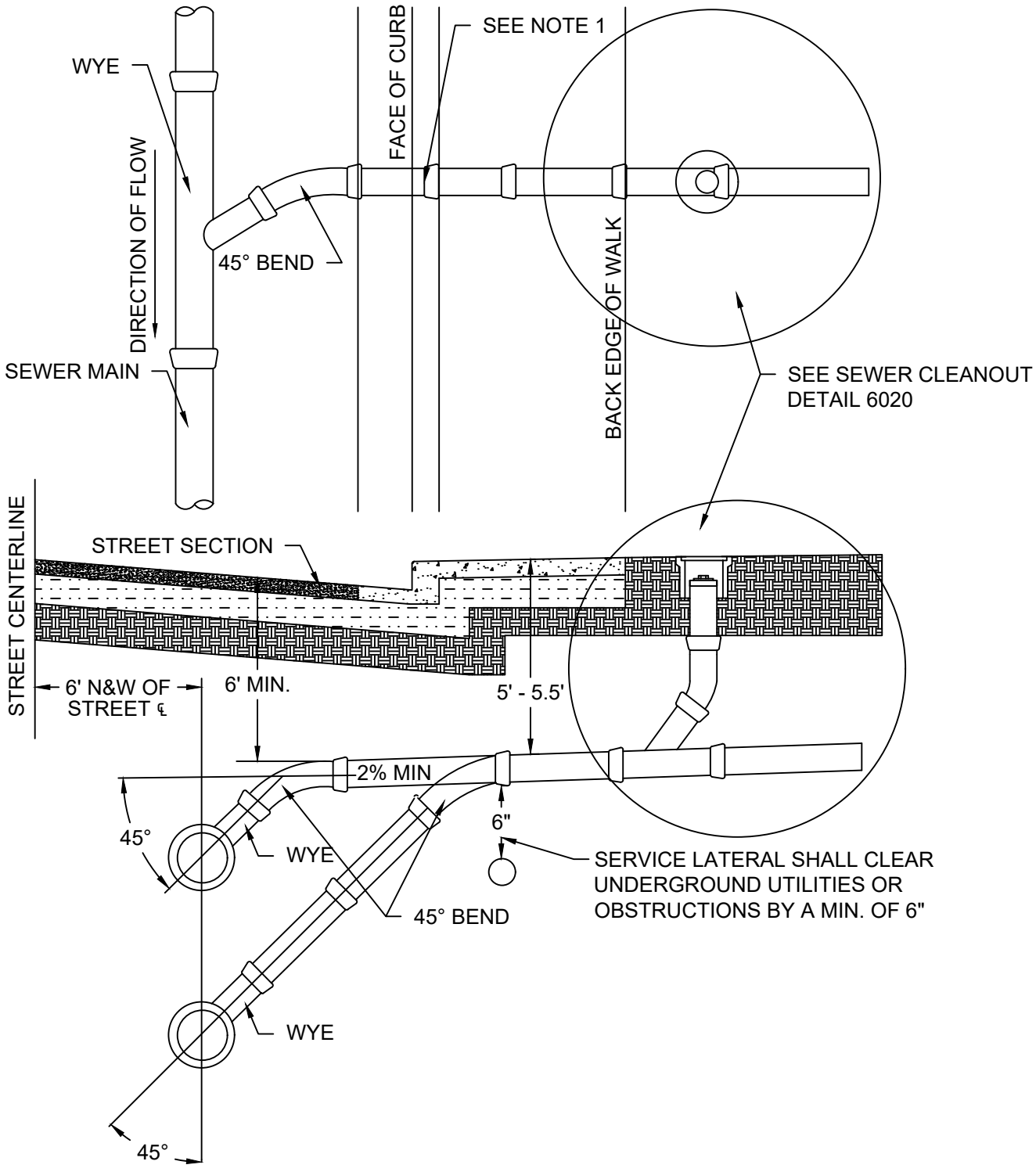
CITY OF DIXON ENGINEERING STANDARD DETAIL	REGISTERED PROFESSIONAL ENGINEER DEBORAH [illegible] No. 78546 CIVIL STATE OF CALIFORNIA APPROVED: MARCH 2022	INSIDE SANITARY SEWER DROP MANHOLE	6010



NOTE:

1. CLEANOUT PLUG TO CONSIST OF AN ABS THREADED CLEANOUT ADAPTER AND ABS CLEANOUT PLUG.
2. CLEANOUT BOX:
   - 2.1. IN LANDSCAPED AREAS USE CONCRETE LID MARKED "SEWER" SEE APPROVED MATERIALS LIST.
   - 2.2. IN CONCRETE DRIVEWAY OR PAVED AREAS, USE CAST IRON LID MARKED "SEWER" SEE APPROVED MATERIALS LIST.
   - 2.3. ALTERNATES TO BE USED UPON CITY ENGINEER APPROVAL ONLY.
3. UNDERGROUND CONTRACTOR TO LAY ABS LATERAL A MINIMUM OF 10 FEET BEYOND BACK OF WALK, PLUG AND INSTALL WOOD MARKER STAKE PAINTED WHITE.
4. BUILDING CONTRACTOR TO CONNECT TO STUB FOR SERVICE TO BUILDING.
5. LOCATION OF WATER LINES AND PUBLIC UTILITY LINES SHALL ACCOMMODATE GRAVITY FLOW OF SEWER SERVICES.
6. IN AREAS WHERE NO SIDEWALK EXISTS, THE CLEANOUT SHALL BE LOCATED WITHIN 18 INCHES OF THE BACK OF CURB AND THE BOX SET LEVEL WITH FINISH GRADE.
7. ALL PIPE AND FITTINGS FROM BAND COUPLER TO BUILDING SHALL BE ABS.
8. SERVICE LATERAL FROM THE MAIN TO THE BAND COUPLER SHALL BE V.C.P.

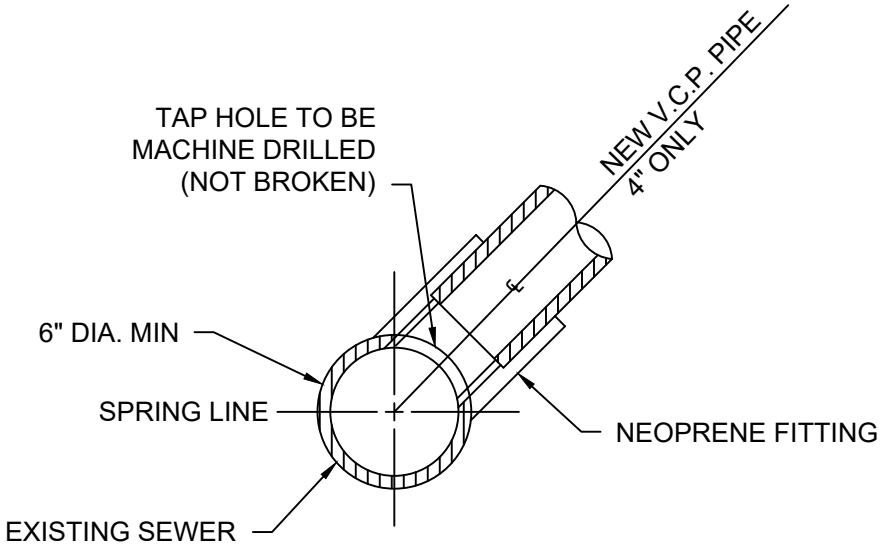
6020	SEWER LATERAL CLEANOUT	APPROVED: MARCH 2022	CITY OF DIXON ENGINEERING STANDARD DETAIL



NOTES:

1. STAMP "S" IN 2.5" LETTERS ON TOP OF CURB AT SERVICE CROSSING.

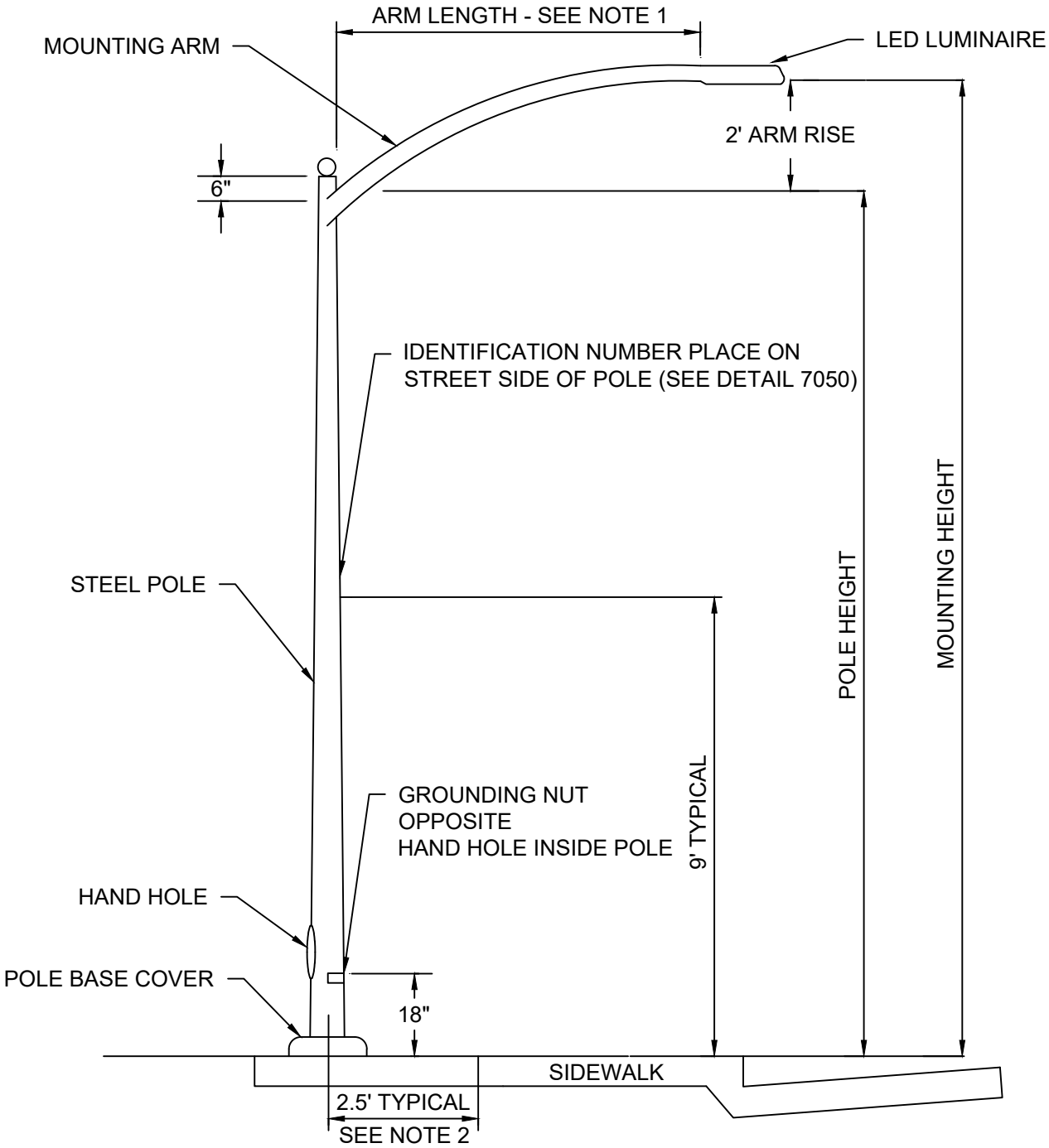
CITY OF DIXON ENGINEERING STANDARD DETAIL	APPROVED: MARCH 2022	SEWER SERVICE LATERAL	6030



MAIN TAP

NOTES:
1. USE OF PREFABRICATED WYES AND TEES MUST BE APPROVED BY THE CITY ENGINEER.
2. TAPPING METHOD PER APPROVED MATERIALS LIST.
3. INVERT OF TAP SHALL BE ABOVE SPRING LINE OF MAIN.

6040	SEWER MAIN TAP	APPROVED: MARCH 2022	CITY OF DIXON ENGINEERING STANDARD DETAIL



TYPE	LUMINAIRE WATTAGE	NOM. MOUNTING HEIGHT	APPLICATION
A / D	23	28'	RESIDENTIAL / INDUSTRIAL
B	34	28'	COLLECTOR
C	73	28'	ARTERIAL

NOTE:

1. ARM LENGTH IS TO BE SELECTED SO THAT LUMINAIRE IS MOUNTED DIRECTLY ABOVE THE FACE OF CURB.
2. WITH CURB AND GUTTER ONLY, USE 3' FROM FACE OF CURB.

CITY OF DIXON
ENGINEERING
STANDARD DETAIL

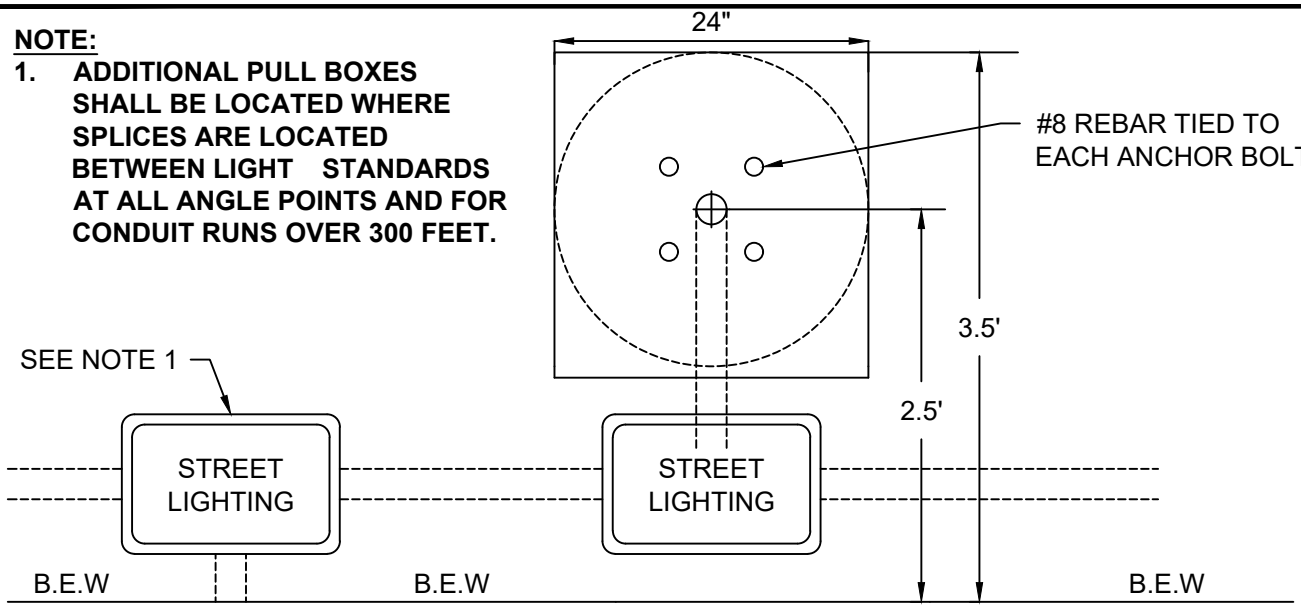
APPROVED: MARCH 2022

STREET LIGHT POLE INSTALLATION

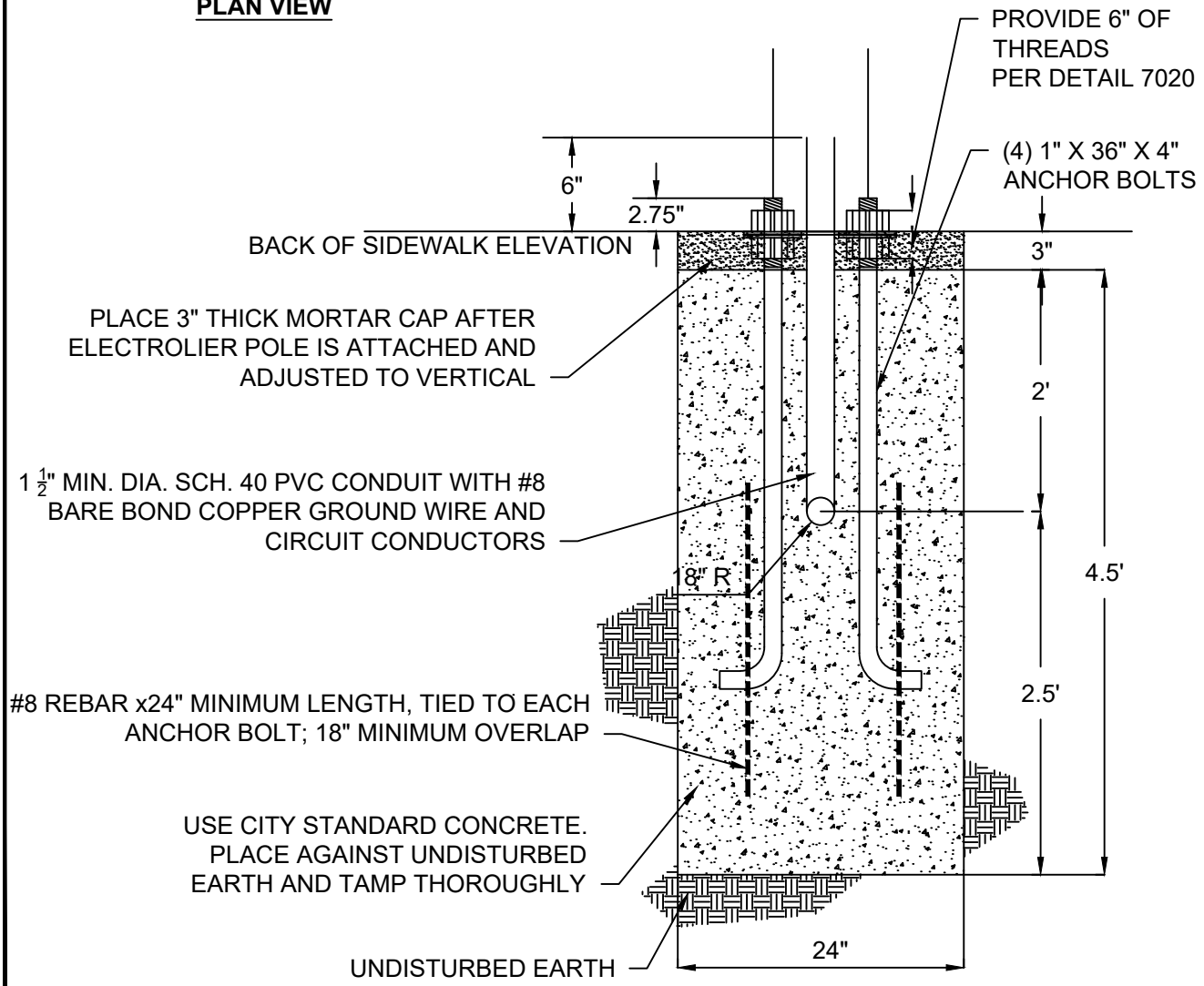
7000

NOTE:

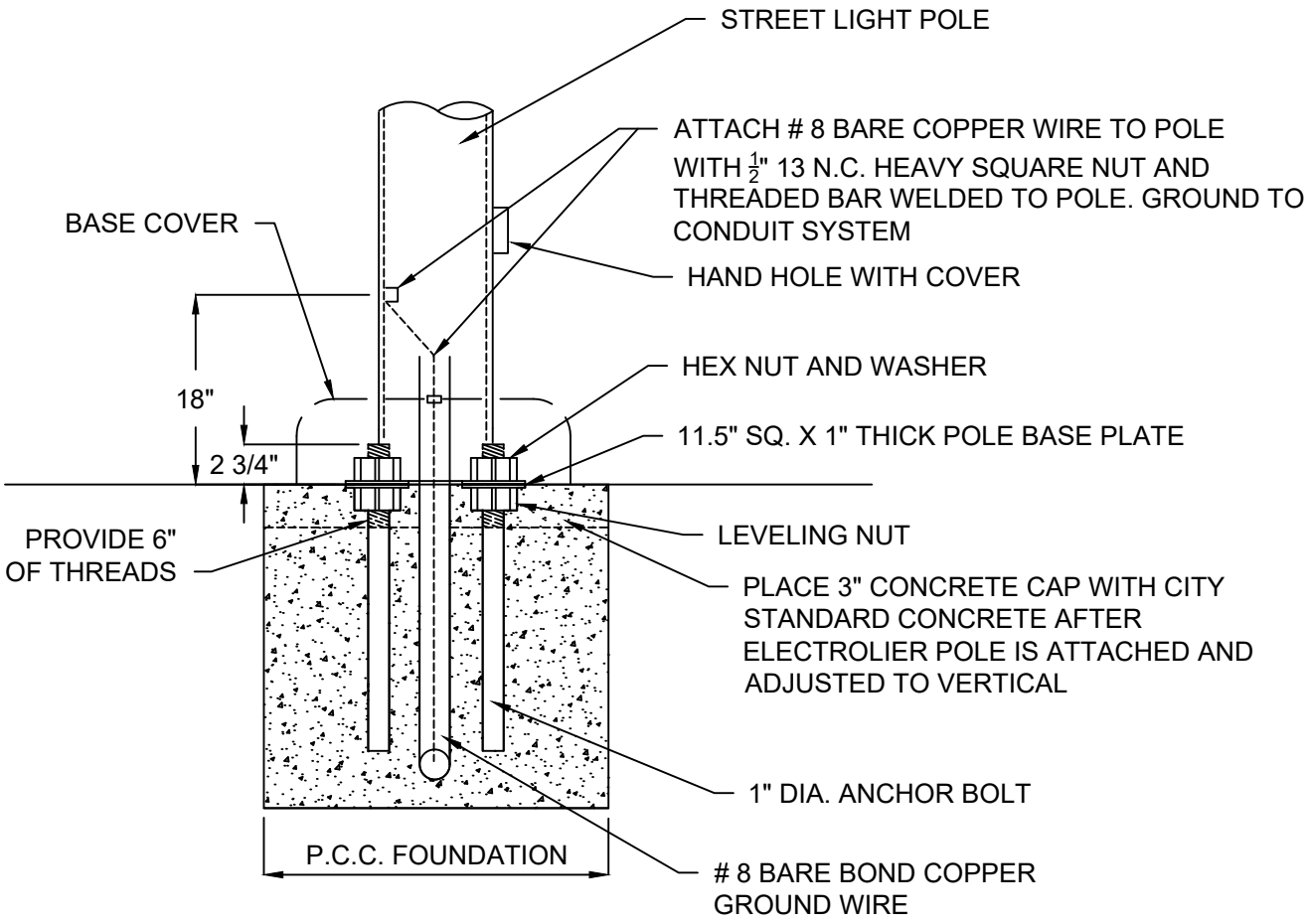
1. **ADDITIONAL PULL BOXES SHALL BE LOCATED WHERE SPLICES ARE LOCATED BETWEEN LIGHT STANDARDS AT ALL ANGLE POINTS AND FOR CONDUIT RUNS OVER 300 FEET.**



PLAN VIEW



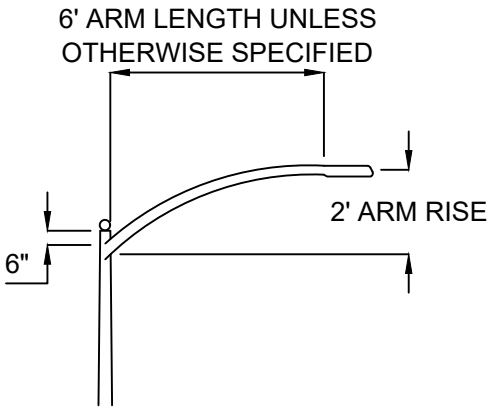
7010	STREETLIGHT FOUNDATION CAST-IN-PLACE	APPROVED: MARCH 2022	CITY OF DIXON ENGINEERING STANDARD DETAIL

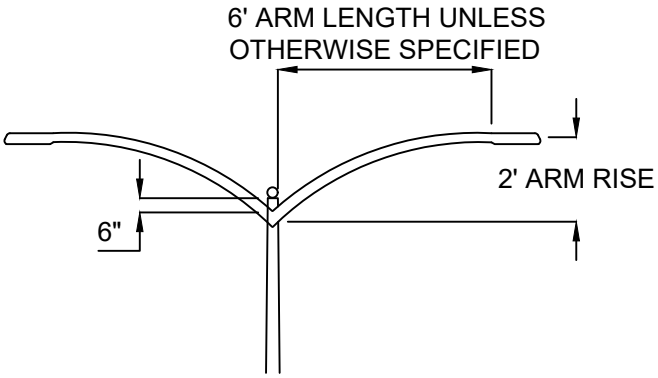


NOTE:

1. USE CITY STANDARD CONCRETE PLACED AGAINST UNDISTURBED EARTH AND TAMP THOROUGHLY.

CITY OF DIXON ENGINEERING STANDARD DETAIL	APPROVED: MARCH 2022	STREET LIGHT POLE-TO-BASE ATTACHMENT	7020





SINGLE ARM POLE

MOUNTING HEIGHT	ARM LENGTH	RISE	GAUGE
28'-0"	6'-0"	2'-0"	10
28'-0"	8'-0"	2'-0"	10

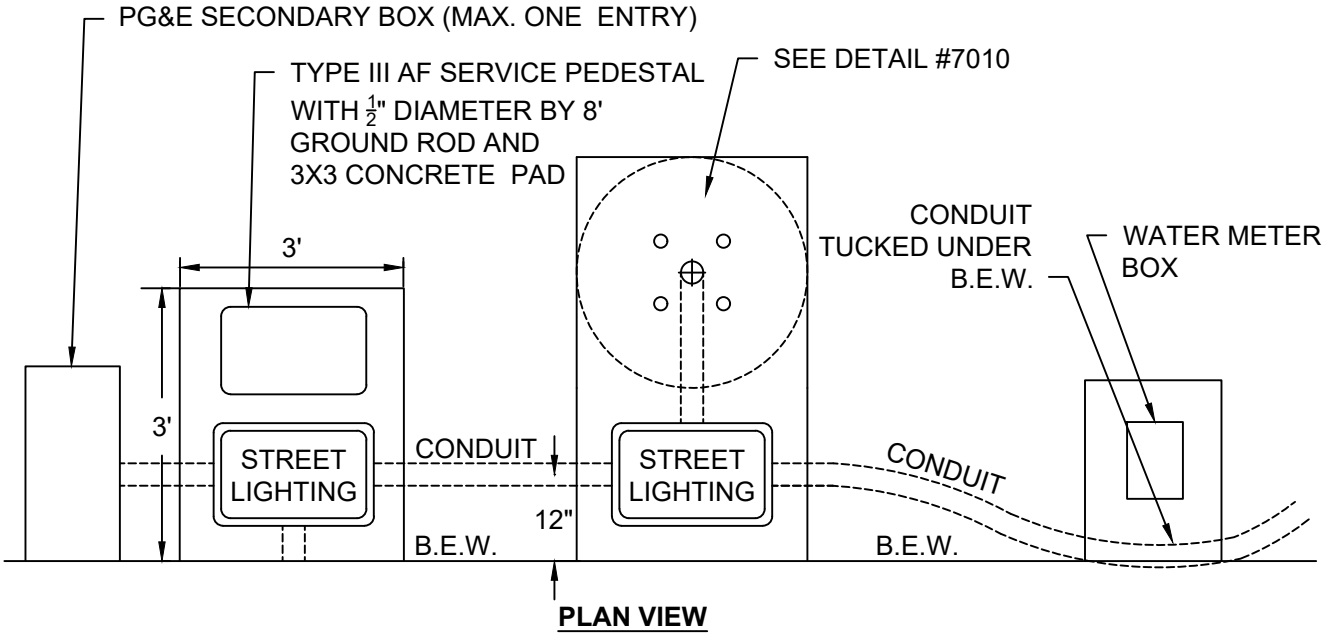
DOUBLE ARM POLE

MOUNTING HEIGHT	ARM LENGTH	RISE	GAUGE
32'-6"	6'-0"	2'-0"	11
32'-6"	8'-0"	2'-0"	11

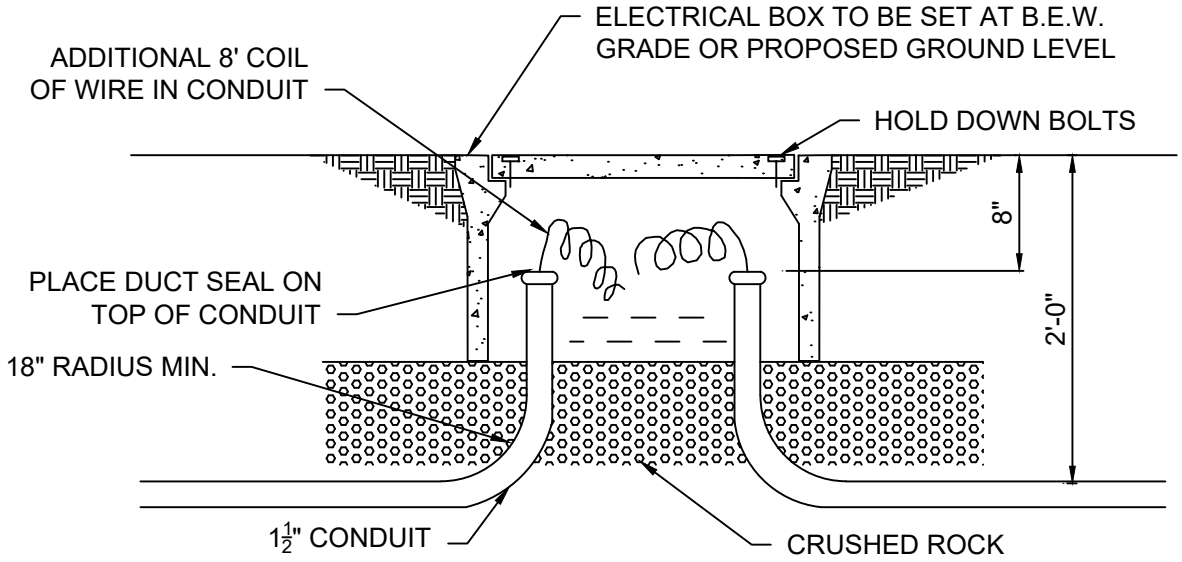
NOTES:

1. POLES SHALL BE IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF EE1-NEMA STANDARDS FOR STREET LIGHTING POLES, EET PUBLICATION NO. TDJ 135.
2. ALL STEEL POLES TO HAVE $\frac{1}{2}$" SQUARE GROUND OR NUT HOLDER IN THE POLE, DIRECTLY OPPOSITE THE HANDHOLE.
3. ALL STEEL POLES TO BE FURNISHED GALVANIZED . GALVANIZED STEEL POLES AND ANCHOR BOLTS TO BE HOT DIP GALVANIZED PER LATEST REVISIONS OF ASTM SPECIFICATION A153.
4. ALL STEEL PLATES TO BE FURNISHED WITH HANDHOLE AND HANDHOLE COVERS.
5. POLES TO BE FURNISHED WITH POLE BASE COVERS.
6. ALL LUMINAIRES SHALL BE LED.

7030	STREET LIGHT POLE SPECIFICATIONS	APPROVED: MARCH 2022	CITY OF DIXON ENGINEERING STANDARD DETAIL



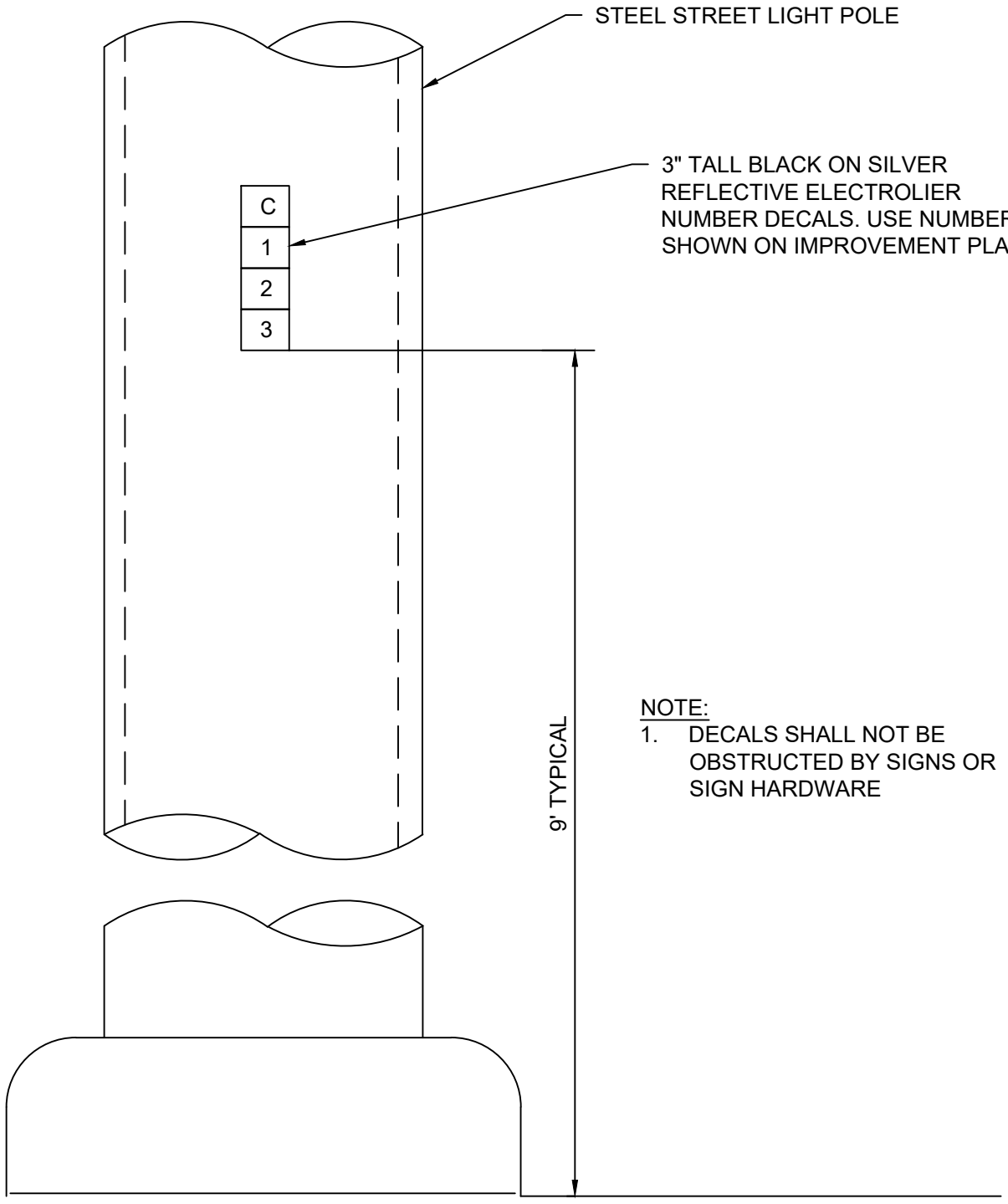
PLAN VIEW



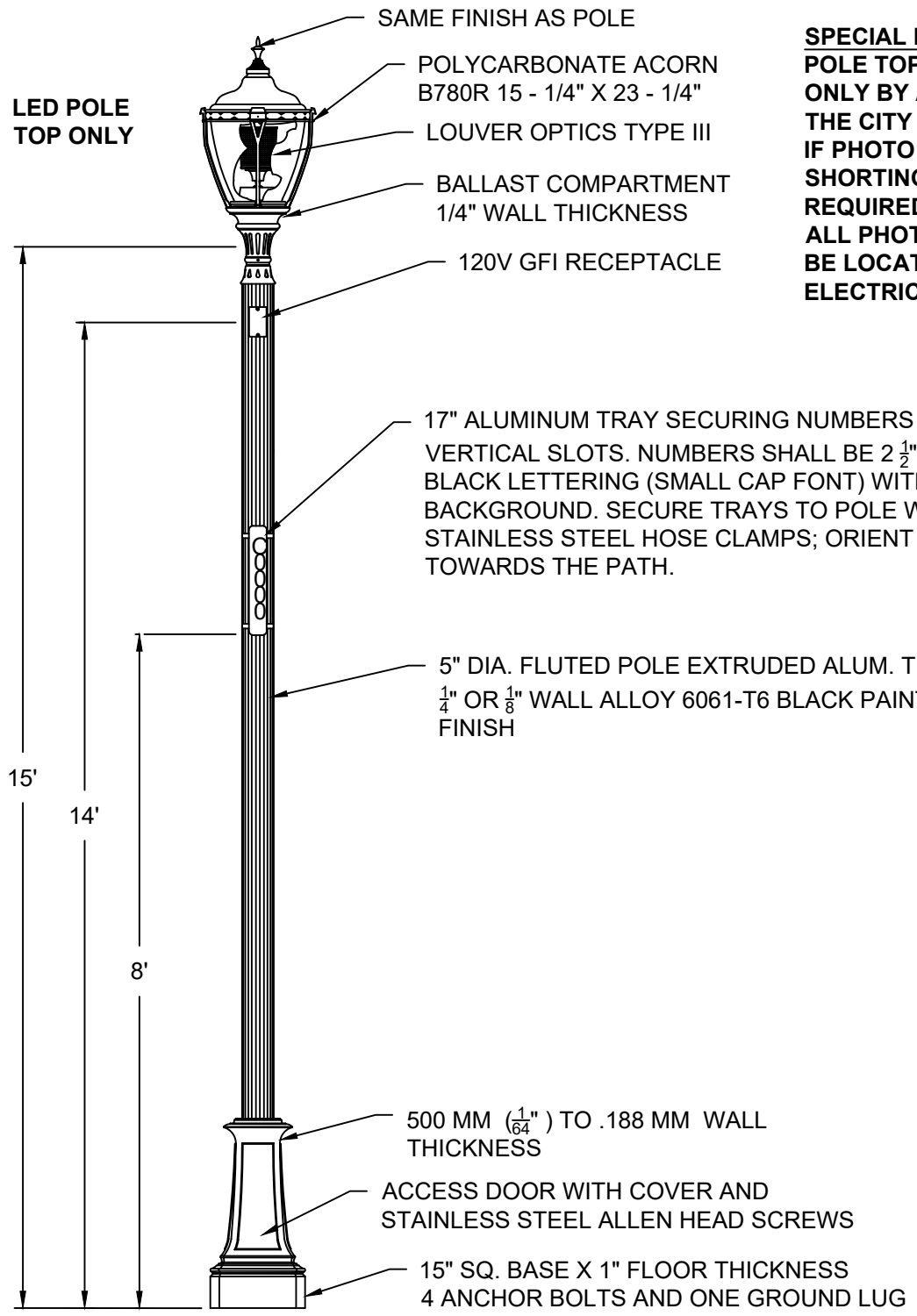
NOTE:

1. ALL CONDUIT SHALL BE MIN. 1½" SCHEDULE 40 PVC.
2. PULL BOXES SHOULD BE LOCATED AT EACH POLE, WHERE SPLICES ARE TO BE MADE BETWEEN LIGHT STANDARDS, WHERE A SERVICE FROM A PG&E SERVICE POINT MUST BE SPLIT, AND FOR ALL RUNS OVER 300 FEET.
3. BUSHINGS SHALL BE INSTALLED AT ALL CONDUITS ENDS.
4. PULL BOX SHALL BE PRECAST REINFORCED CONCRETE, # 3 ½ STATE PULL BOX WITH HOLD DOWN BOLTS AND MARKED "STREET LIGHTING".
5. SERVICE PEDISTAL SHALL BE CALTRANS STANDARD TYPE III AF WITH SEPERATE BREAKERS FOR EACH CIRCUIT.
6. AN ADDITIONAL 8' OF ELECTRICAL WIRE SHALL BE COILED IN THE BOX.
7. TAPE AND SCOTCH GUARD SHALL BE PLACED AROUND EXPOSED WIRES.

CITY OF DIXON ENGINEERING STANDARD DETAIL	REGISTERED PROFESSIONAL ENGINEER DEBORAH [illegible] 8654 CIVIL STATE OF CALIFORNIA APPROVED: MARCH 2022	STREET LIGHT BOX & CONDUIT INSTALLATION	7040



7050	STANDARD STREET LIGHT NUMBERING	APPROVED: MARCH 2022	CITY OF DIXON ENGINEERING STANDARD DETAIL



LED POLE TOP ONLY

SPECIAL NOTES:
POLE TOP TO BE USED ONLY BY APPROVAL OF THE CITY ENGINEER.
IF PHOTO CELL SHORTING CAP REQUIRED.
ALL PHOTO CELLS TO BE LOCATED AT ELECTRICAL PED. BOX.

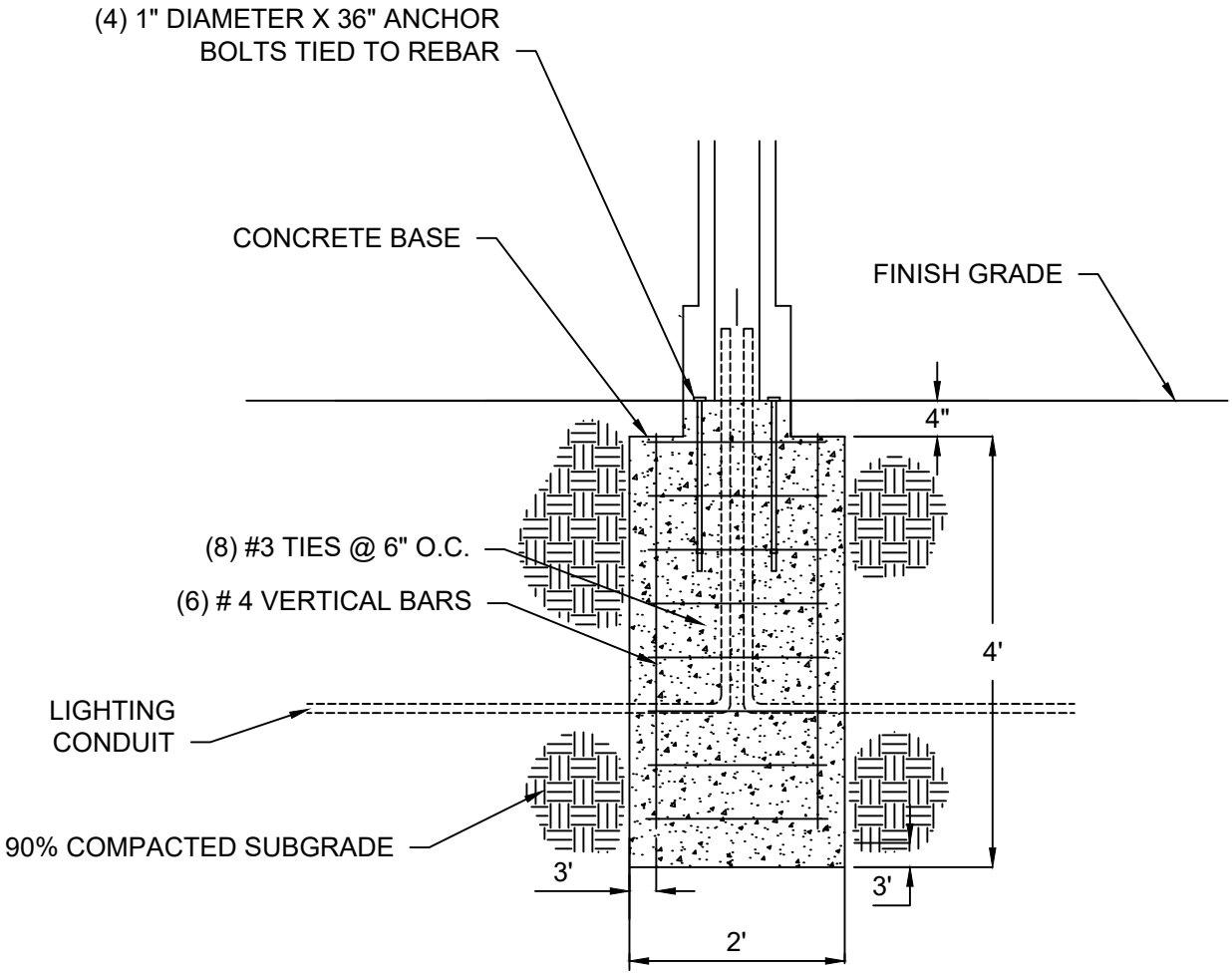
NOTES:
1. HOUSE SIDE SHIELD SHALL BE INSTALLED AS SPECIFIED ON THE PLANS AND AS DIRECTED BY THE CITY ENGINEER.
2. POLE SHALL BE WELDED FOR SINGLE UNIT CONSTRUCTION.
3. ALL LUMINARIES SHALL BE LED.

CITY OF DIXON
ENGINEERING
STANDARD DETAIL

APPROVED: MARCH 2022

FLUTED POLE TOP TOP PATH LIGHT

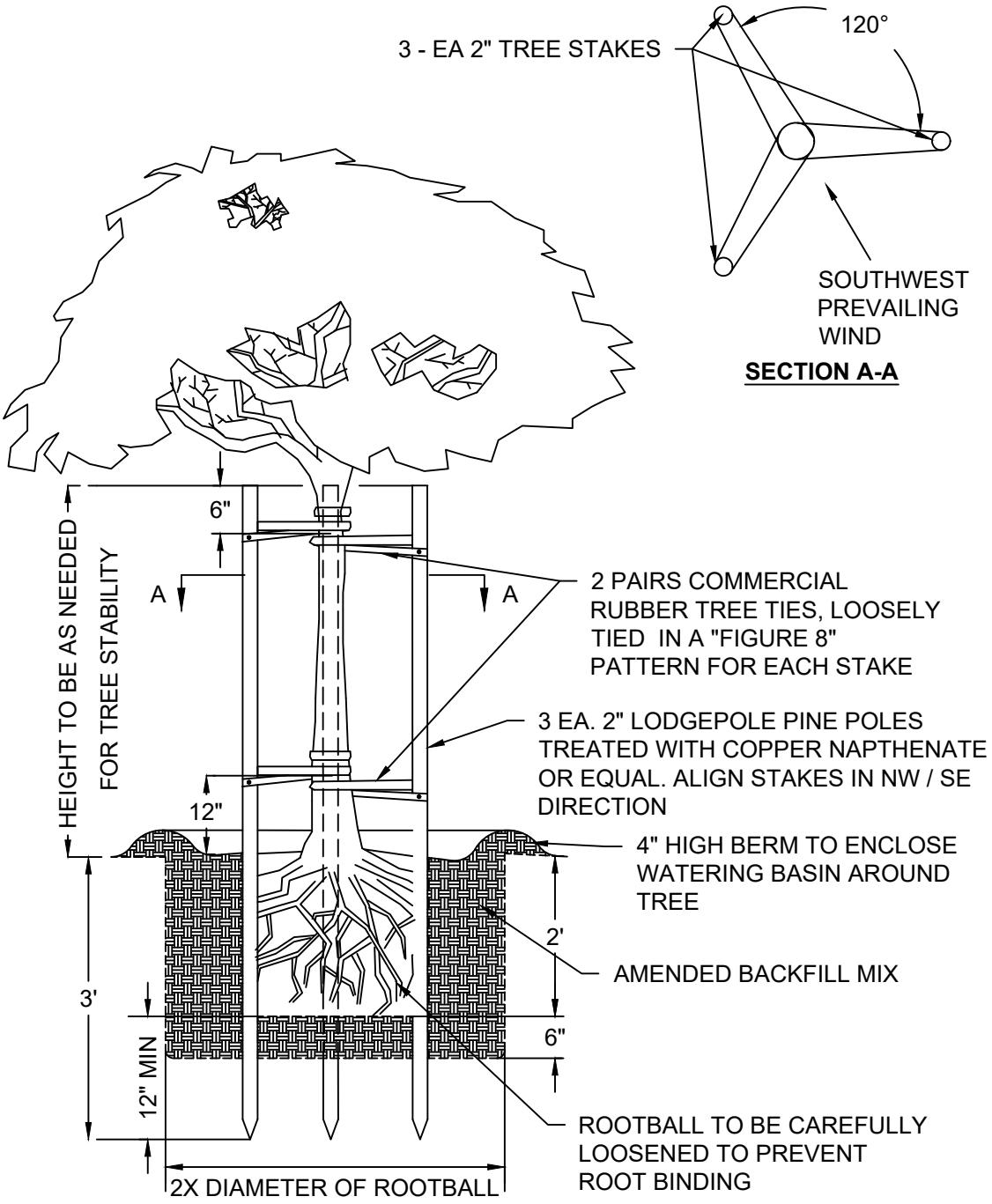
7070



NOTE:

1. USE CITY STANDARD CONCRETE, PLACE AGAINST UNDISTURBED EARTH AND TAMP THOROUGHLY.

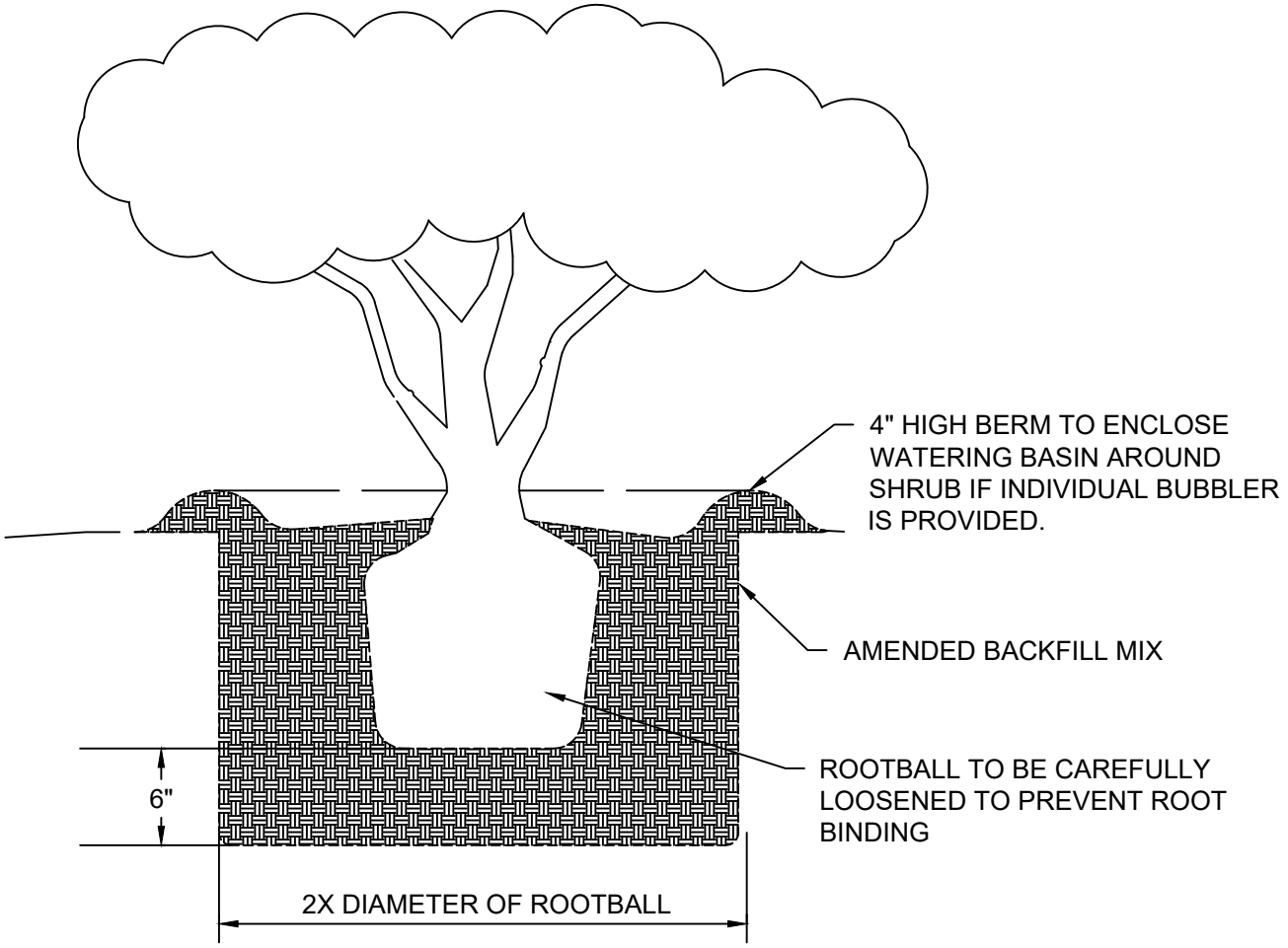
7080	FLUTED POLE TOP PATH LIGHT BASE DETAIL	APPROVED: MARCH 2022	CITY OF DIXON ENGINEERING STANDARD DETAIL



NOTES:

1. ROOT CONTROL PLANTER BOXES SHALL BE REQUIRED WHERE TREE IS 10 FEET OR LESS FROM EXISTING OR FUTURE SIDEWALK OR CURB. EWING STANDARD PLANTER, UNIVERSAL PLANTER OR CENTURY RC 24 OR EQUAL MAY BE USED. LENGTH OF BARRIER = 6' CENTERED ON TREE.
2. TREES SHALL BE PROVIDED WITH AUTOMATIC IRRIGATION SYSTEMS (INDIVIDUAL BUBBLERS WITH WATER BASIN).

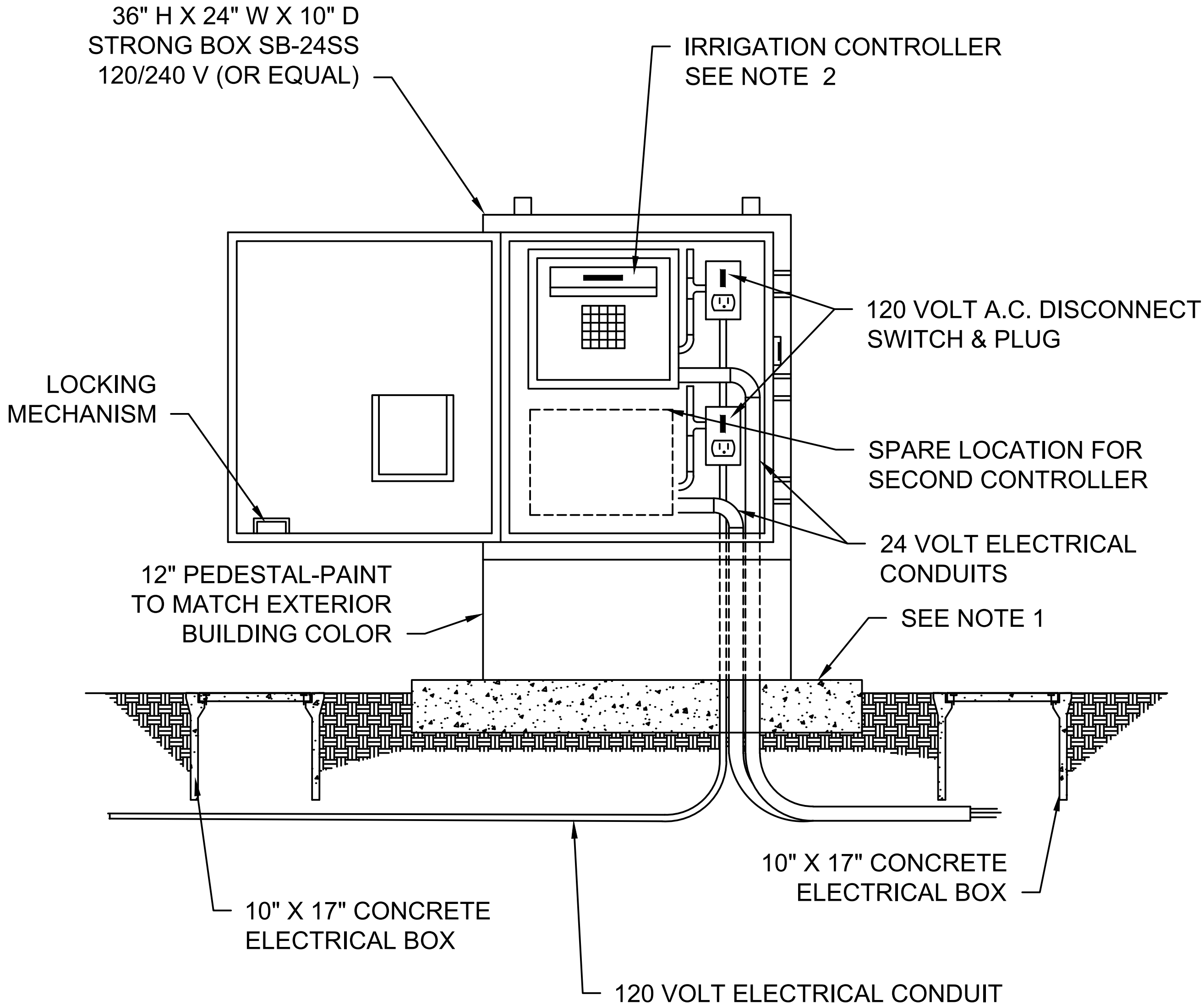
CITY OF DIXON ENGINEERING STANDARD DETAIL	APPROVED: MARCH 2022	TREE PLANTING	8000



NOTES:

1. ROOT CONTROL PLANTER BOXES OR BARRIER PANELS SHALL BE REQUIRED WHERE SHRUB IS 10 FEET OR LESS FROM EXISTING OR FUTURE SIDEWALK OR CURB. EWING STANDARD PLANTER, UNIVERSAL PLANTER OR CENTURY RC 24 OR EQUAL MAY BE USED. LENGTH OF BARRIER = 6' CENTERED ON SHRUB.
2. SHRUBS SHALL BE PROVIDED WITH AUTOMATIC IRRIGATION SYSTEMS (INDIVIDUAL BUBBLERS WITH WATERING BASIN).

8010	SHRUB PLANTING	APPROVED: MARCH 2022	CITY OF DIXON ENGINEERING STANDARD DETAIL



NOTES:

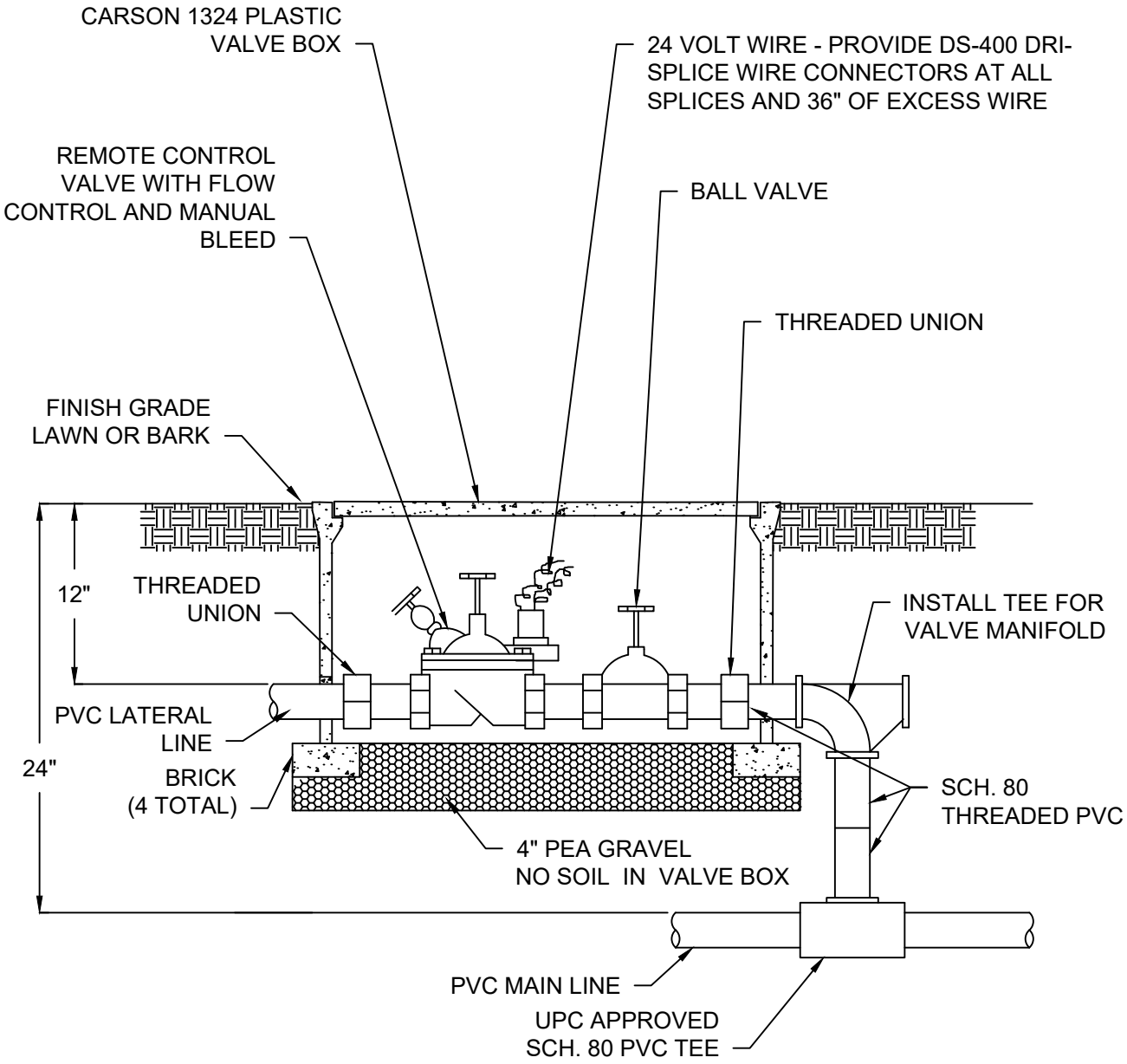
1. 8" THICK CONCRETE SLAB EXTENDING 4" BEYOND SIDES AND BACK, AND 24" IN FRONT. SET TOP TO 2" ABOVE FINISH GRADE IN GROUND COVER AND 1" ABOVE FINISH GRADE IN TURF.
2. CONTROLLER TO BE SPECIFIED EVOLUTION OR EAGLE RAINMASTER. MAXIMUM (1) CONTROLLER PER BOX.
3. PROVIDE 2 COPIES OF LAMINATED SCHEMATIC MAP OF STATIONS IN CONTROLLER BOX.

CITY OF DIXON
ENGINEERING
STANDARD DETAIL

APPROVED: MARCH 2022

IRRIGATION CONTROLLER

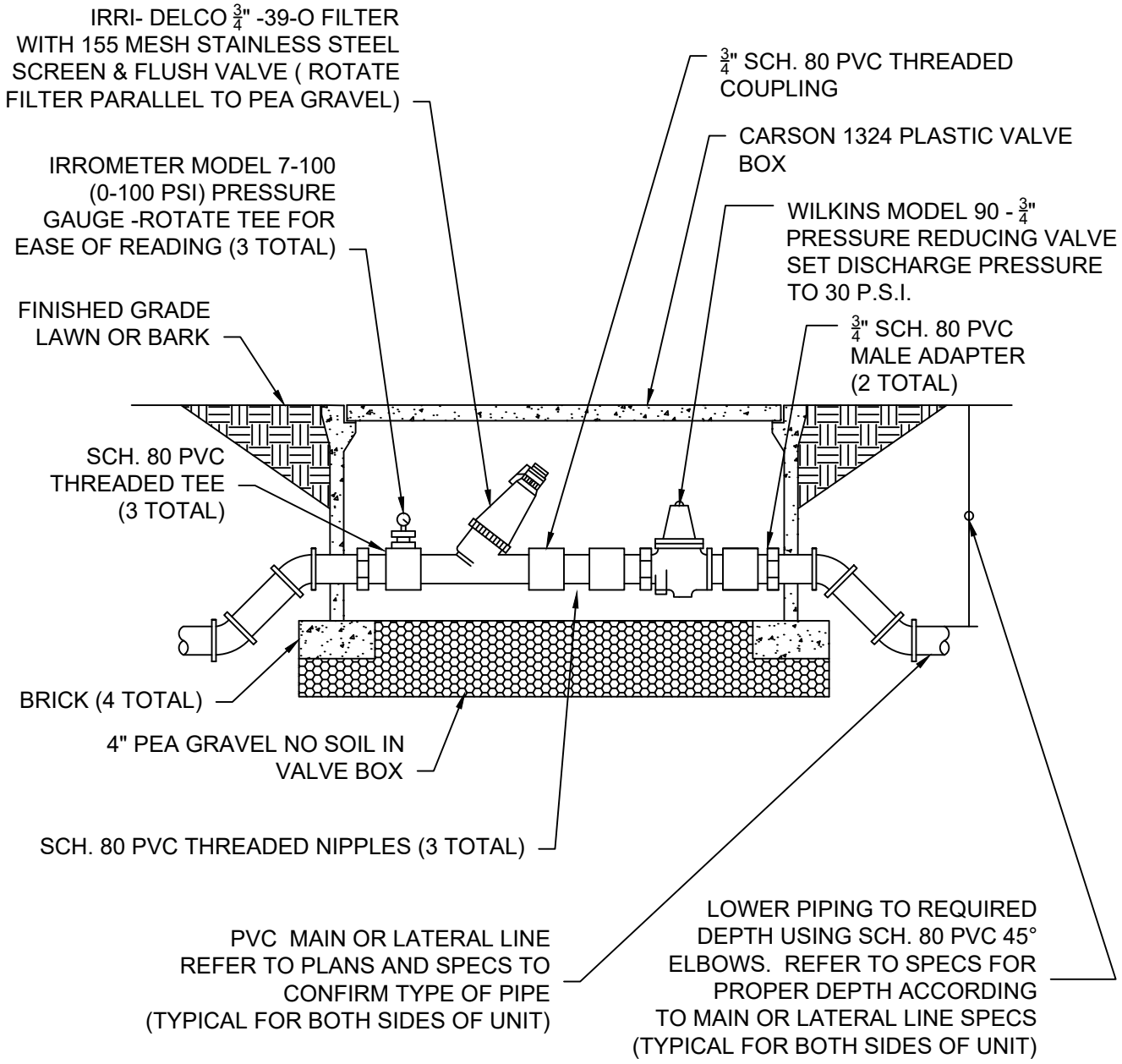
8020



NOTES:

1. WHEN PLASTIC VALVES ARE USED, THE CARSON VALVE BOX SHALL HAVE AN EMS DEVICE IN THE COVER TO FACILITATE DETECTION BY A METAL DETECTOR.
2. ONLY ONE (1) REMOTE CONTROL VALVE PER BOX - NO EXCEPTIONS.
3. PROVIDE DS-400 DRI-SPLICE WIRE CONNECTORS AT ALL SPLICES.
4. ALL WIRES SHALL BE LABELED OR TAGGED.
5. ALL MAINLINES SHALL HAVE LOCATING WIRE.

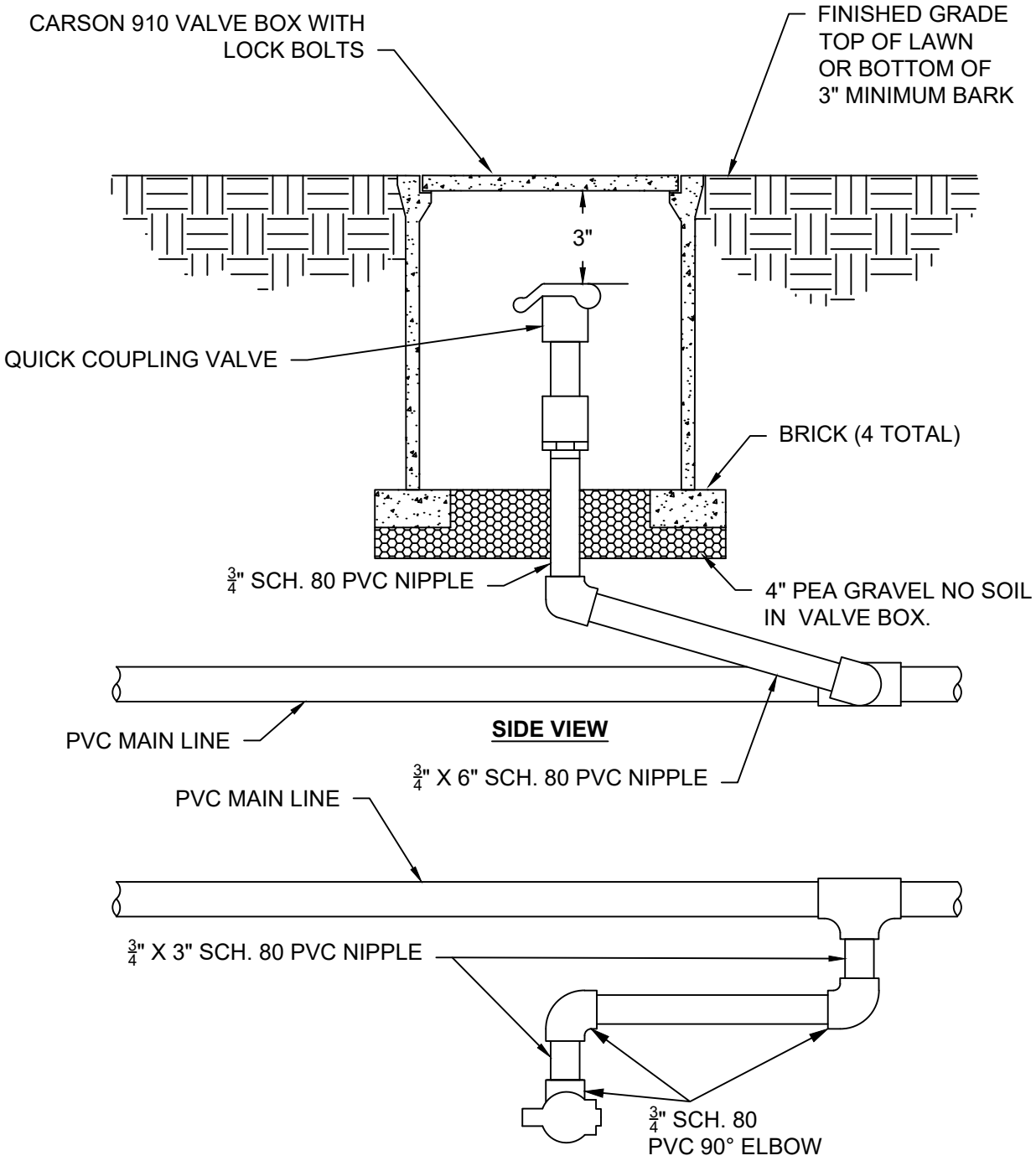
8030	REMOTE CONTROL AND BALL VALVE COMBINATION	APPROVED: MARCH 2022	CITY OF DIXON ENGINEERING STANDARD DETAIL



NOTES:

1. PRESSURE GAUGES ON EITHER SIDE OF FILTER ARE TO INDICATE WHEN FILTER IS CLOGGED AND NEEDS CLEANING.
2. ONE MANIFOLD UNIT MAY BE USED UPSTREAM OF A GROUP OF DRIP VALVES, IF EQUIPMENT IS PRESSURE RATED.
3. PLACE MANIFOLD UNIT DOWNSTREAM OF SINGLE DRIP VALVE.
4. EMITTER MANIFOLD UNITS TO BE INSTALLED IN VALVE BOX AT GRADE FOR EASE OF FILTER CLEANING.

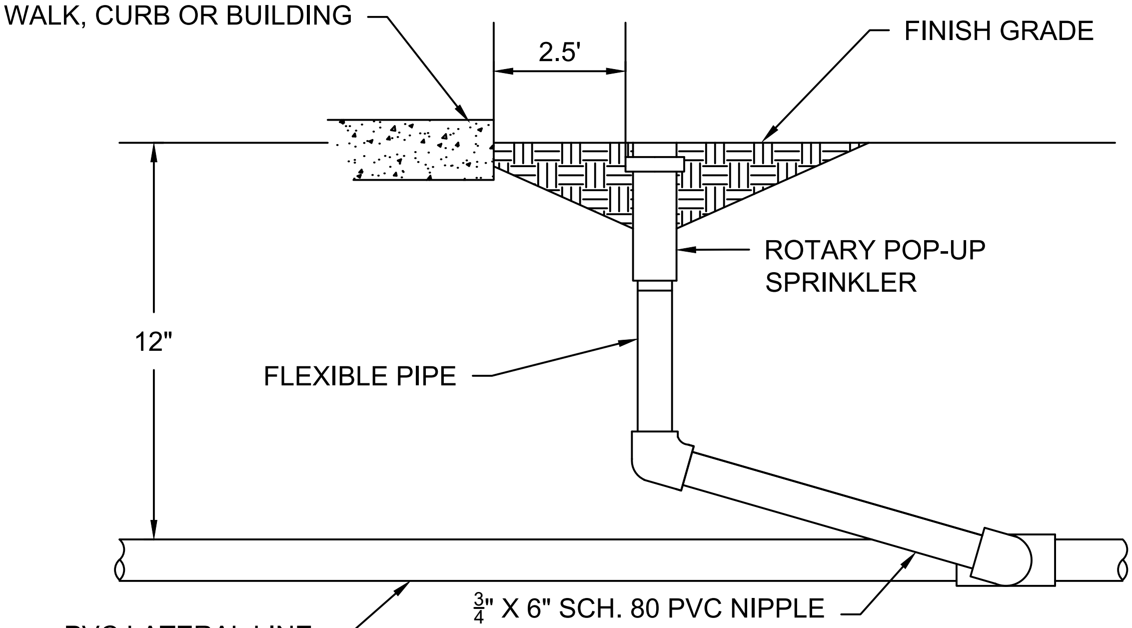
CITY OF DIXON ENGINEERING STANDARD DETAIL	REGISTERED PROFESSIONAL ENGINEER DEBORAH A. BARR 8654 CIVIL STATE OF CALIFORNIA APPROVED: MARCH 2022	IRRIGATION DRIP FILTERING SYSTEM	8040



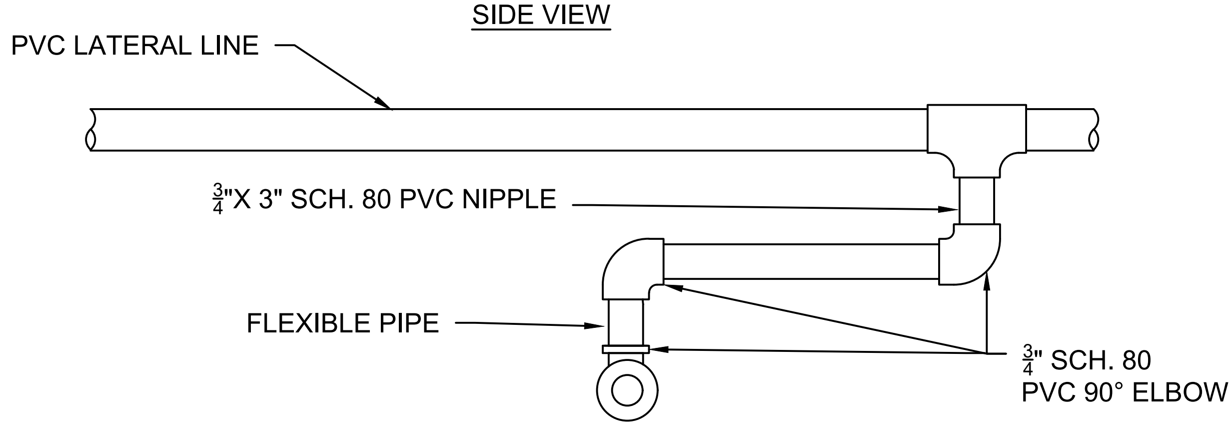
NOTES:

1. ALL MAINLINES SHALL HAVE LOCATING WIRE.

8050	QUICK COUPLER	APPROVED: MARCH 2022	CITY OF DIXON ENGINEERING STANDARD DETAIL



SIDE VIEW

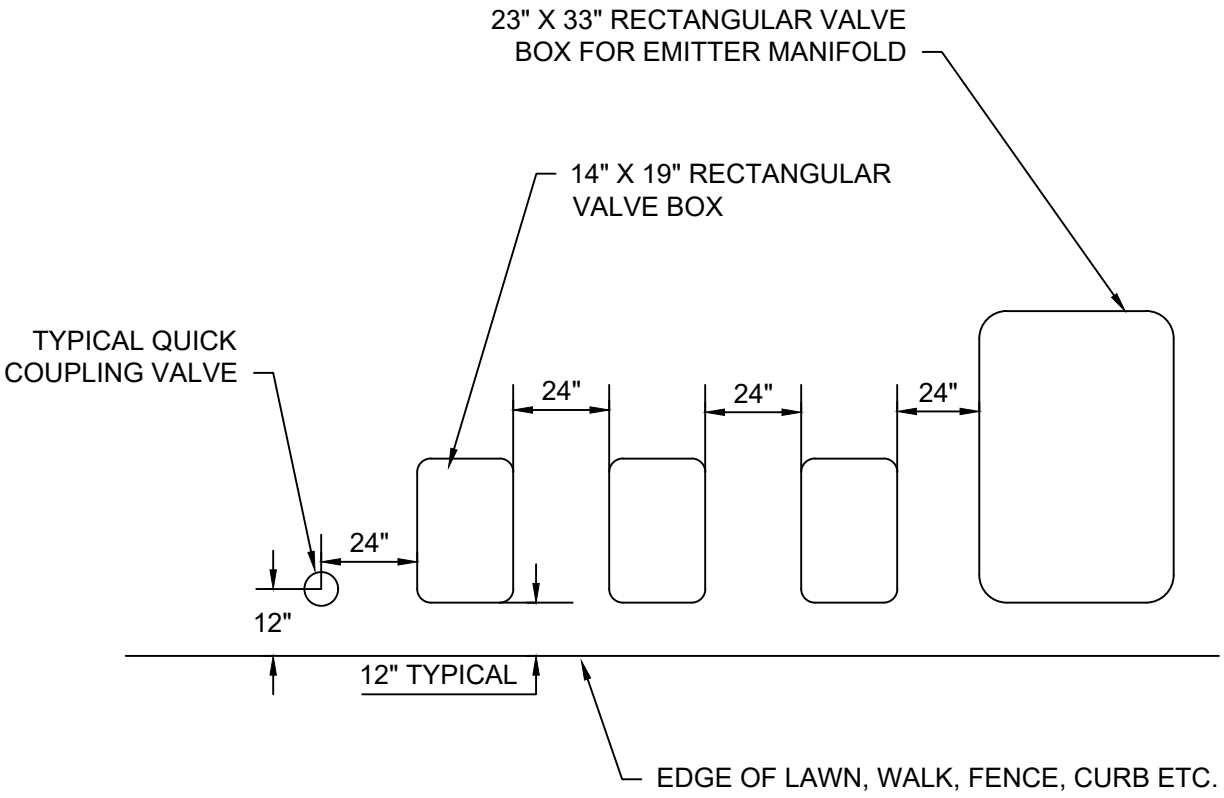


TOP VIEW

NOTES:

1. SPRINKLER SHALL HAVE INTEGRAL CHECK VALVE TO PREVENT LOW HEAD DRAINAGE.
2. SET SPRINKLERS 2" ABOVE FINISH GRADE AT TIME OF INSTALLATION- LOWER TO FINISH GRADE WHEN TURF IS WELL ESTABLISHED.
3. ALL MAINLINES SHALL HAVE LOCATING WIRE.

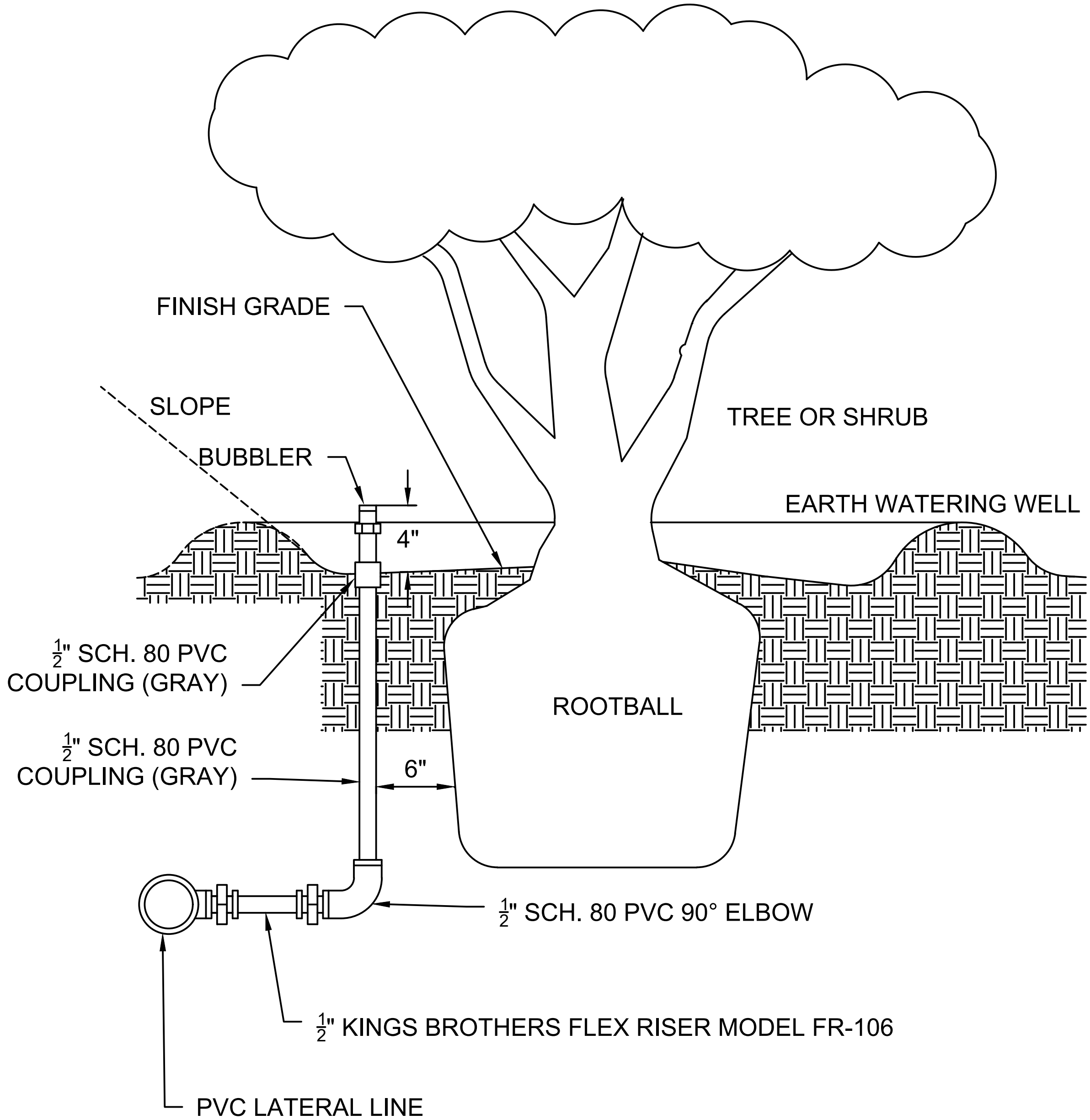
CITY OF DIXON ENGINEERING STANDARD DETAIL	APPROVED: MARCH 2022	TYPICAL SPRAY HEAD	8060



NOTES:

1. CENTER VALVE BOX OVER REMOTE CONTROL VALVE TO FACILITATE SERVICING VALVE.
2. SET PCV AND VALVE BOX ASSEMBLY IN GROUND COVER / SHRUB AREA WHERE POSSIBLE. INSTALL IN LAWN ONLY IF GROUND COVER DOES NOT EXIST ADJACENT TO LAWN.
3. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE.
4. AVOID HEAVILY COMPACTED SOIL AROUND VALVE BOXES TO PREVENT COLLAPSE AND DEFORMATION OF VALVE BOX SIDES.
5. STAMP LIDS AND TAG VALVES.

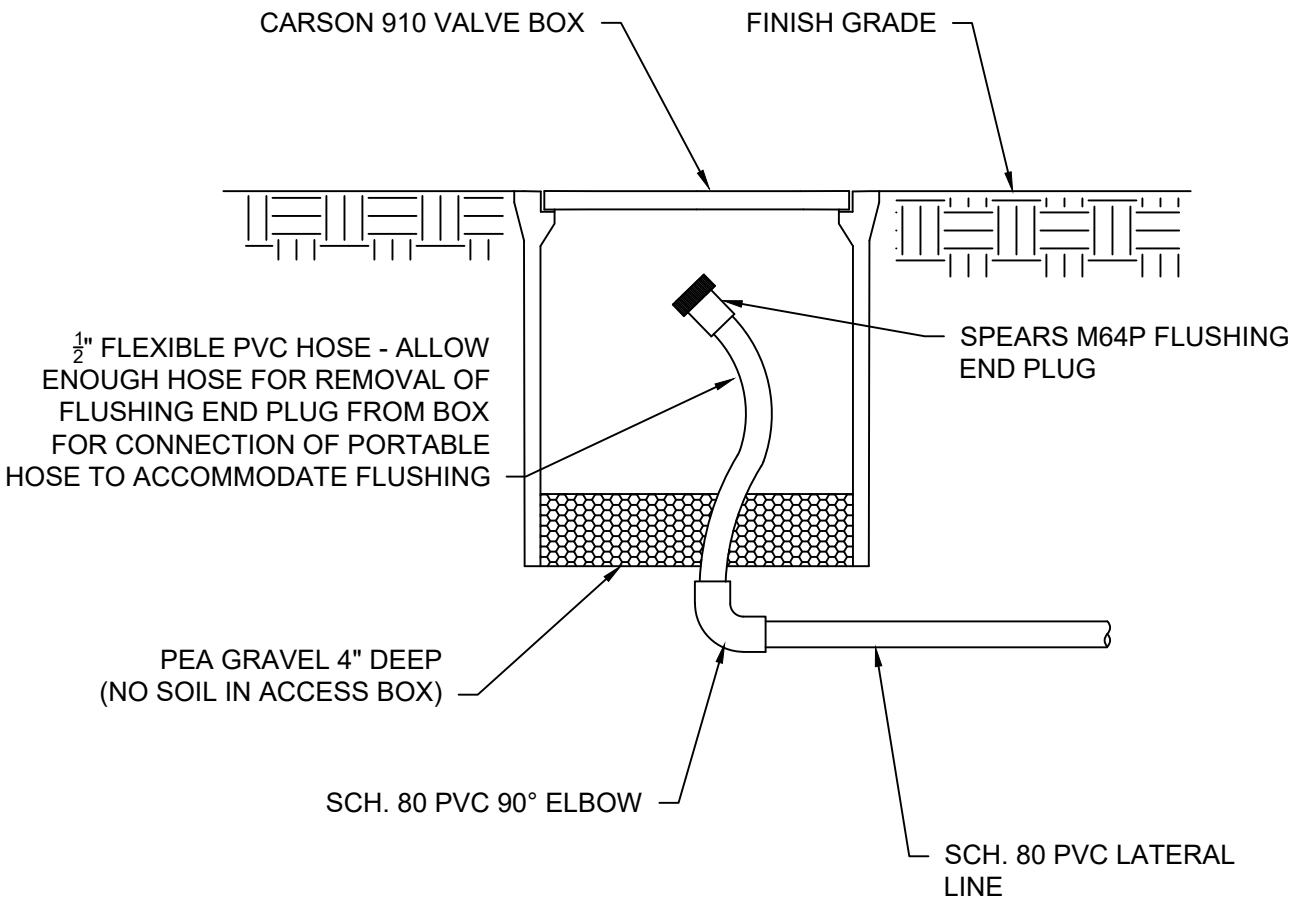
8070	IRRIGATION BOX ARRANGEMENT	APPROVED: MARCH 2022	CITY OF DIXON ENGINEERING STANDARD DETAIL



NOTES:

1. FOR BUBBLERS AT TREES OR SHRUBS IN GROUND COVER AREAS AND ON SLOPES.
2. INSTALL ONE OR TWO BUBBLERS, ON OPPOSITE SIDES OF THE ROOT BALL, AS PER IRRIGATION DESIGN.
3. INSTALL ALL BUBBLERS ON UPHILL SIDE OF PLANT.

CITY OF DIXON ENGINEERING STANDARD DETAIL	APPROVED: MARCH 2022	TYPICAL BUBBLER	8080



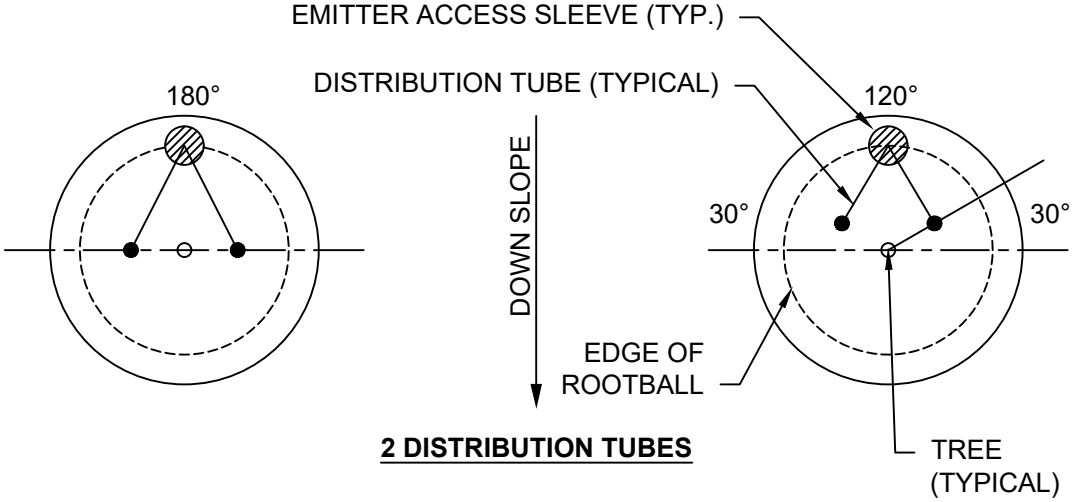
NOTES:

1. THIS FLUSHING END PLUG IS TYPICAL OF ALL LATERAL ENDS IN DRIP SYSTEM.

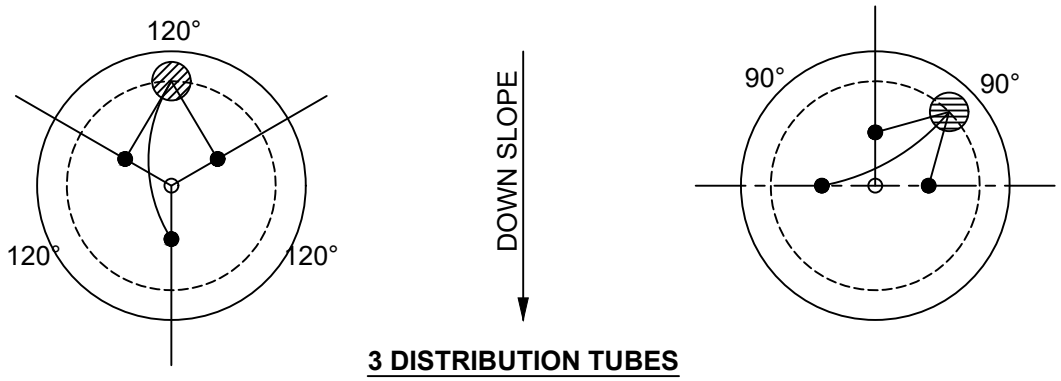
8090	DRIP IRRIGATION FLUSH PLUG	APPROVED: MARCH 2022	CITY OF DIXON ENGINEERING STANDARD DETAIL

LEVEL GRADE

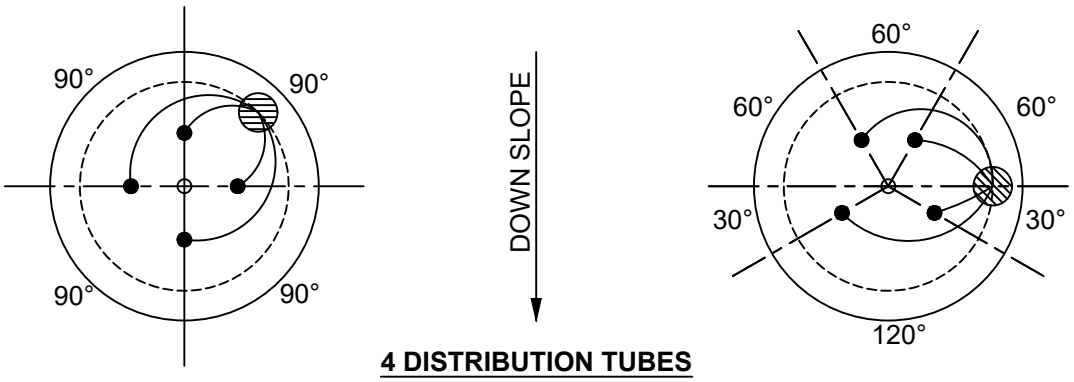
SLOPED GRADE



2 DISTRIBUTION TUBES



3 DISTRIBUTION TUBES



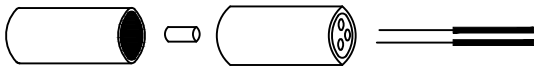
4 DISTRIBUTION TUBES

NOTES:

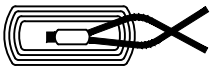
1. STAKING FOR EMISSION TUBES SHALL BE PER THE MANUFACTURER'S RECOMMENDATIONS.

CITY OF DIXON ENGINEERING STANDARD DETAIL	REGISTERED PROFESSIONAL ENGINEER DEBORAH A. BARR C 65441 CIVIL STATE OF CALIFORNIA APPROVED: MARCH 2022	DRIP EMMITTER ARRANGEMENT	8100

STRIP WIRES APPROXIMATELY $\frac{5}{8}$" FROM END



INSERT WIRES THROUGH HOLES IN BASE OF BODY

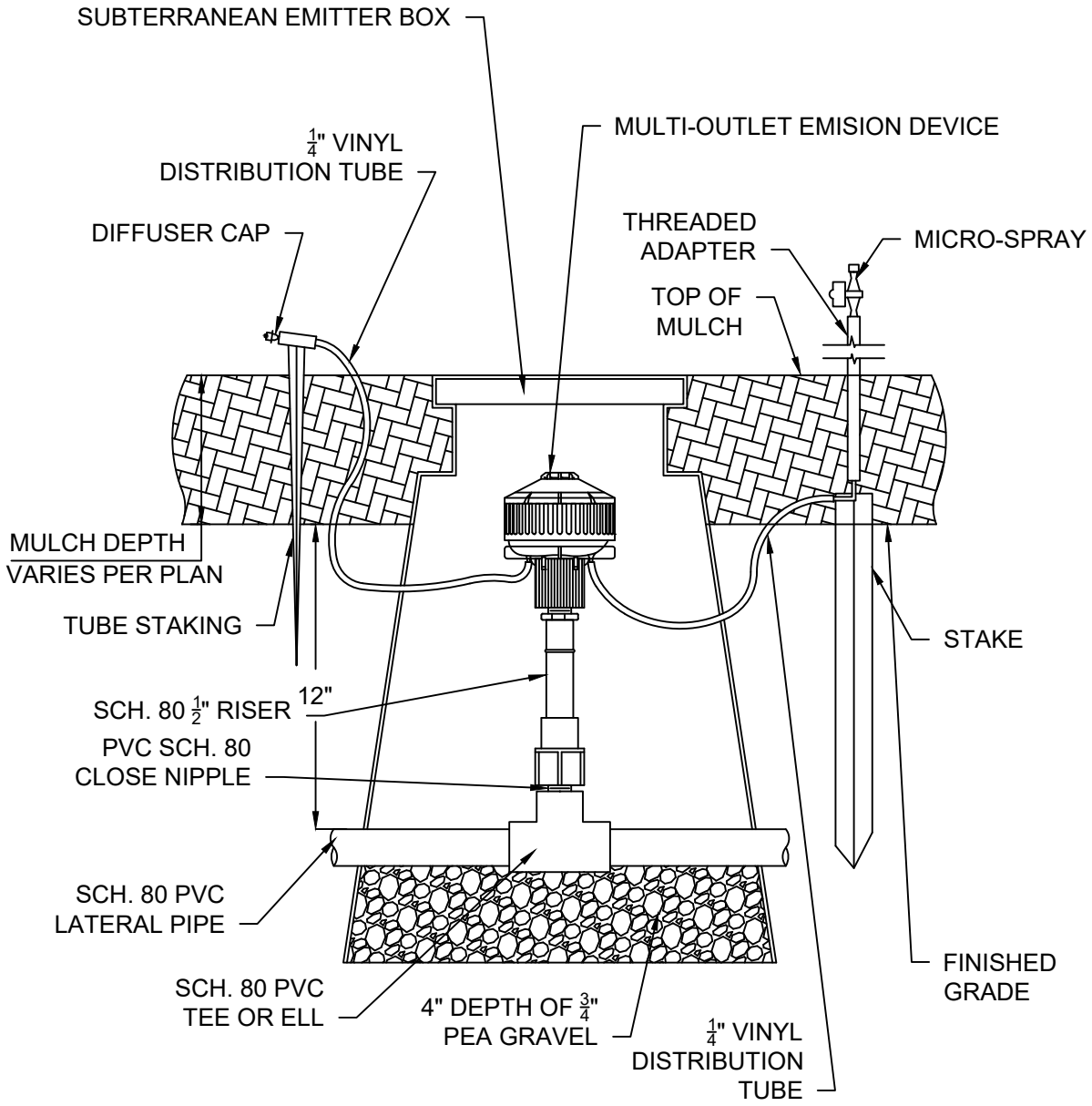


TWIST STRIPPED WIRES TOGETHER AND APPLY CRIMP SLEEVE WITH AN INDENT TYPE CRIMPING TOOL. PUSH WIRES BACK INTO BODY. INVERT BODY AND INSERT PLUG INTO BODY UNTIL IT SNAPS TIGHT.

NOTES:

1. ONE CONNECTOR HANDLES #10, #12 & #14 AWG WIRE.
2. WIRE CONNECTORS WILL ACCEPT THREE WIRE OR TWO WIRE CONNECTIONS.

8110	UNDERGROUND WIRE SPLICE	APPROVED: MARCH 2022	CITY OF DIXON ENGINEERING STANDARD DETAIL



CITY OF DIXON

ENGINEERING STANDARD DETAIL

APPROVED: MARCH 2022

DRIP IRRIGATION MULTI-OUTLET EMITTER

8120