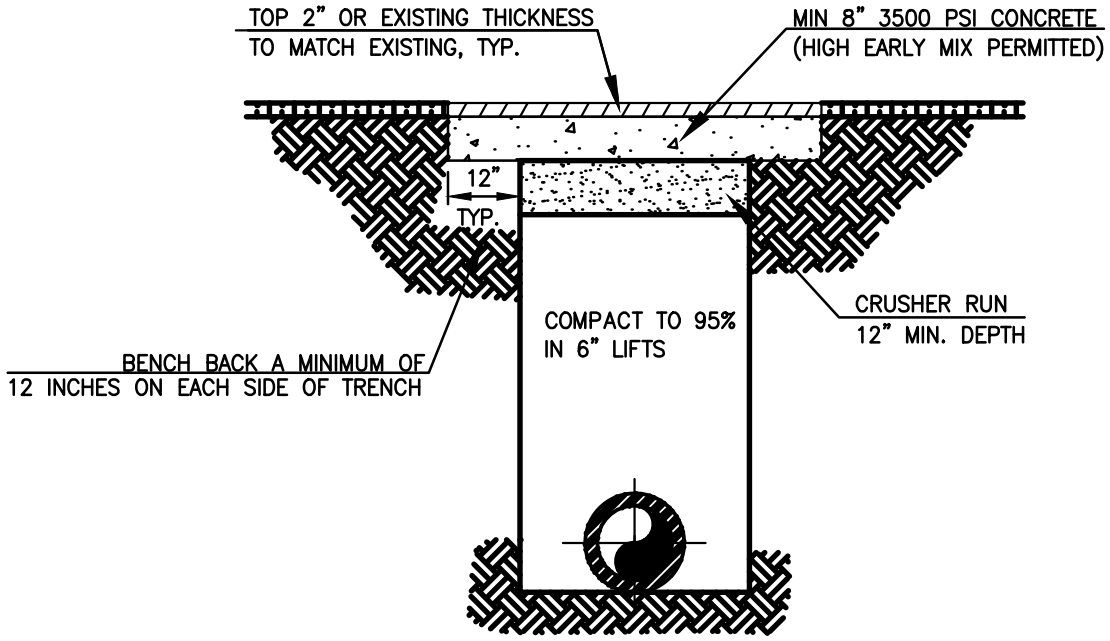
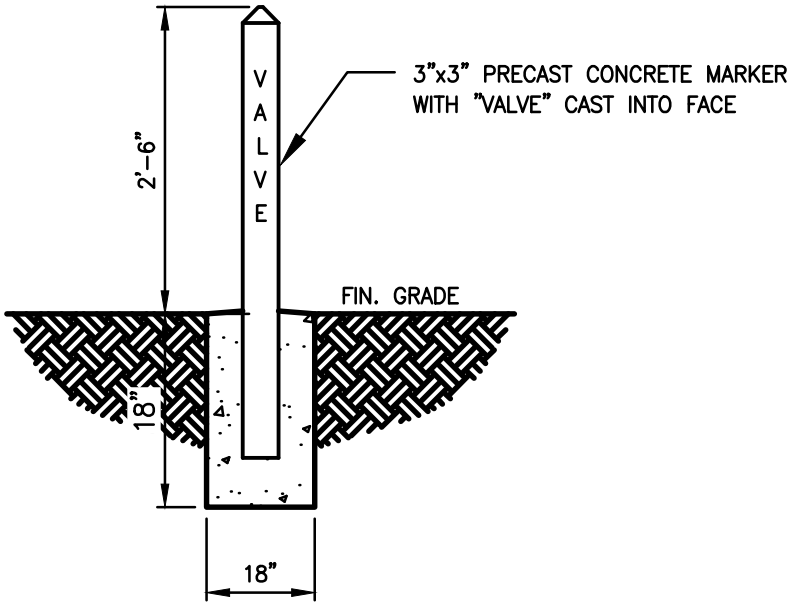


NOTES:

1. ALL LATERAL STREET CUTS MUST BE COVERED WITH STEEL PLATES OF SUFFICIENT THICKNESS TO SPAN THE CUT WITHOUT NOTICEABLE DEFLECTION. PLATES TO REMAIN IN PLACE UNTIL THE CONCRETE BASE HAS GAINED SUFFICIENT STRENGTH TO WITHSTAND TRAFFIC LOADS (24 HOUR MINIMUM).
2. ON LONGITUDINAL CUTS EXCEEDING 150 FEET IN LENGTH, THE CONCRETE IN THE TRENCH WILL BE BROUGHT FLUSH WITH THE EXISTING PAVEMENT AND THE ENTIRE WIDTH OF THE ROADWAY RESURFACED WITH ASPHALT TOPPING COURSE AS DIRECTED BY THE CITY OF DAHLONEGA ENGINEER.

CITY OF DAHLONEGA STANDARD DETAIL G1
PAVEMENT PATCH

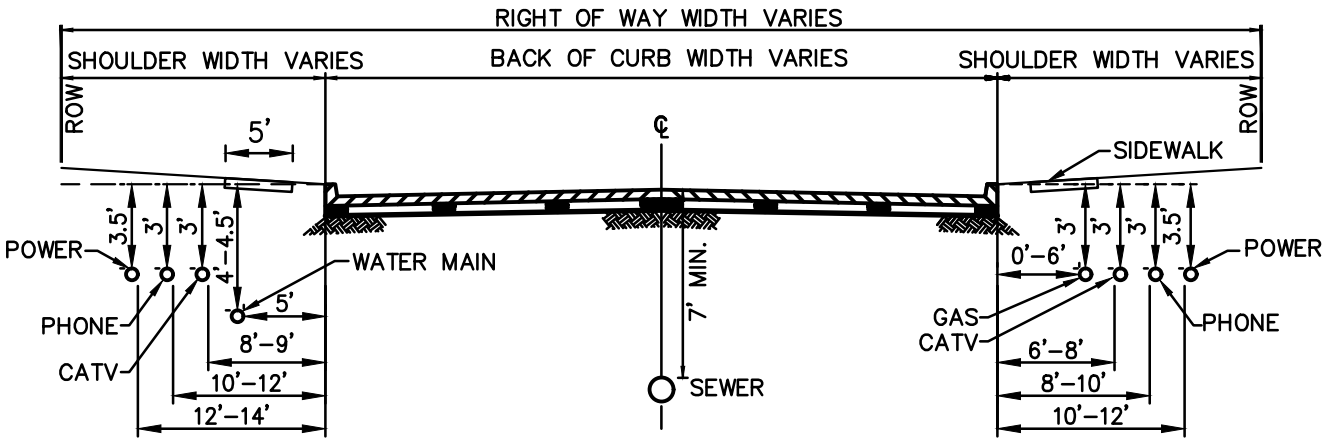
SCALE: NTS
DATE OF LAST REVISION: 03/22



CITY OF DAHLONEGA STANDARD DETAIL G2
VALVE MARKER

SCALE: NTS
DATE OF LAST REVISION: 03/22

NOTES:
1. MEASURE UTILITY LOCATION FROM BACK OF CURB.
2. LOCATE WATER ON NORTH OR WEST SIDE OF STREET. LOCATE GAS ON SOUTH OR EAST SIDE OF STREET. RECOMMENDED PLACEMENT IS BACK OF EDGE OF CORRIDOR TO MINIMIZE DAMAGE TO SIDEWALKS.



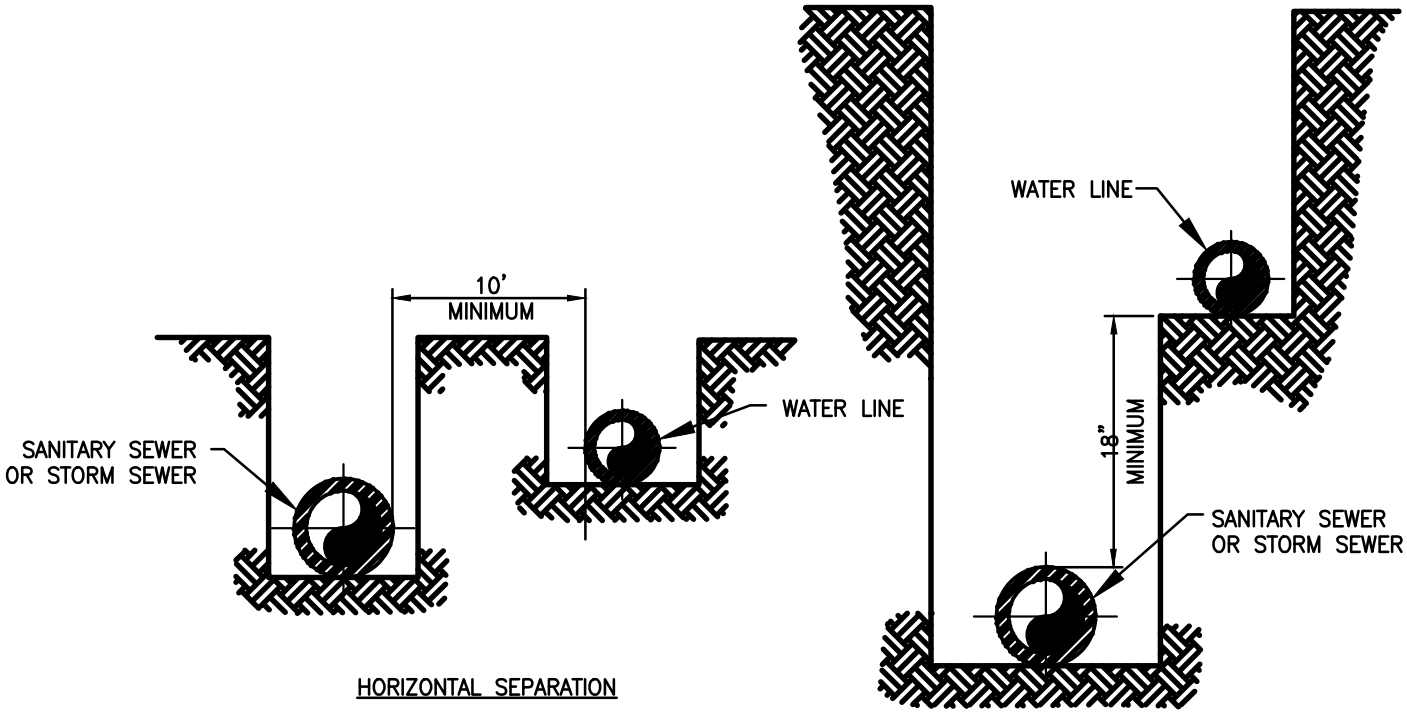
RIGHT OF WAY WITH CURB & GUTTER

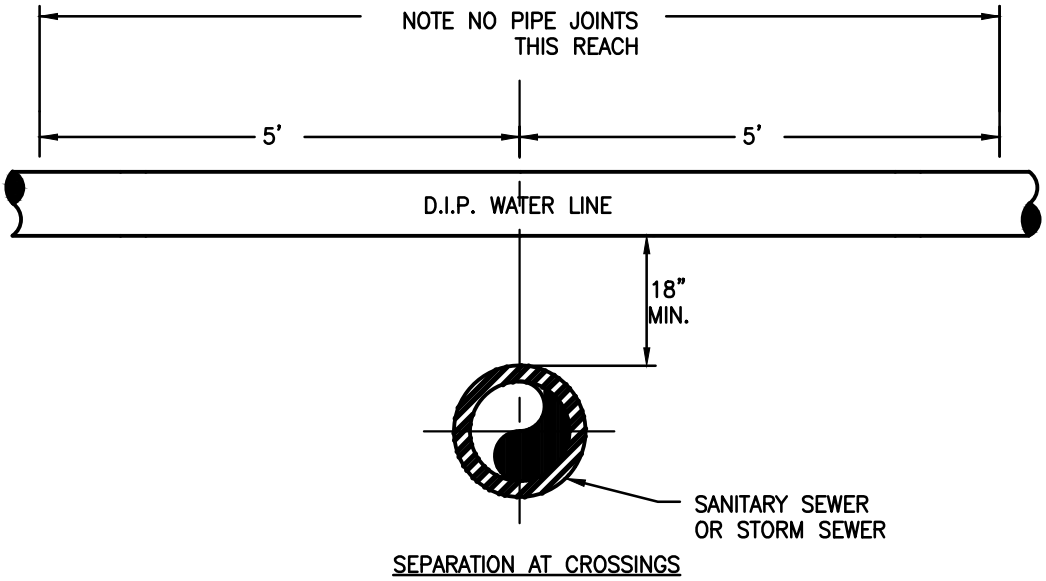
NOTES:

1. MEASURE UTILITY LOCATION FROM ROW (SEE ILLUSTRATION).
2. LOCATE WATER ON NORTH OR WEST SIDE OF STREET. LOCATE GAS ON SOUTH OR EAST SIDE OF STREET.
3. MINIMUM WATER MAIN SIZE IS 8" DIP.

CITY OF DAHLONEGA STANDARD DETAIL G3
UTILITY PLACEMENT

SCALE: NTS
DATE OF LAST REVISION: 03/22



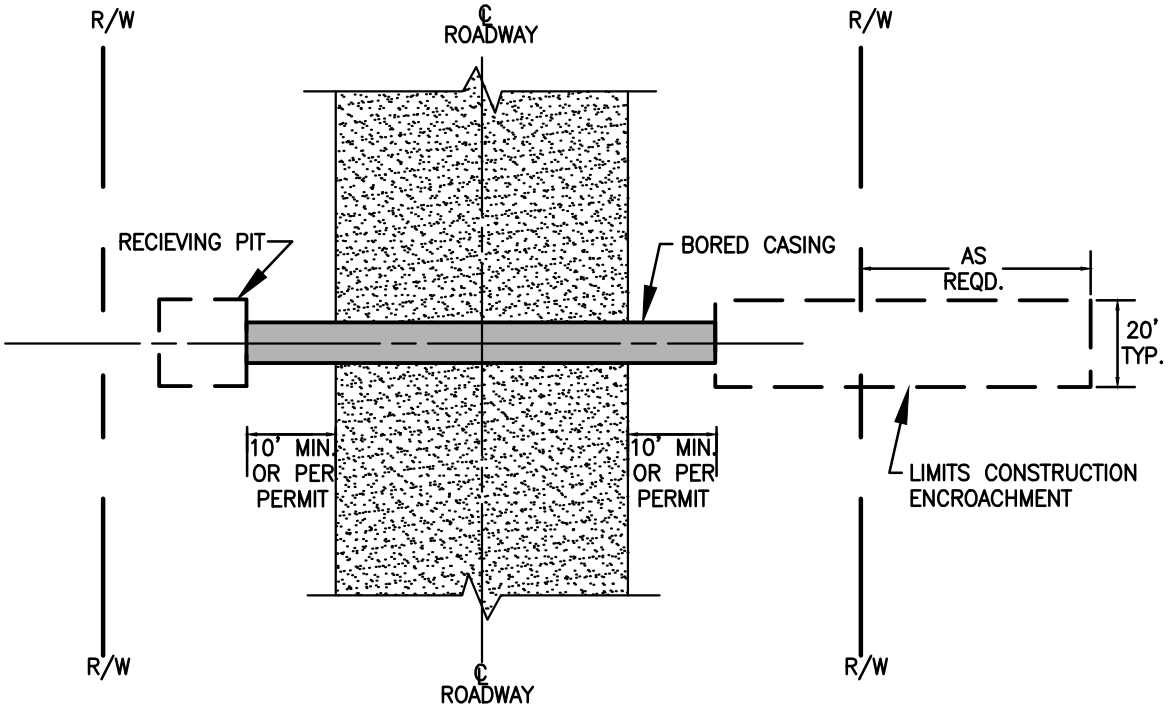


NOTES:

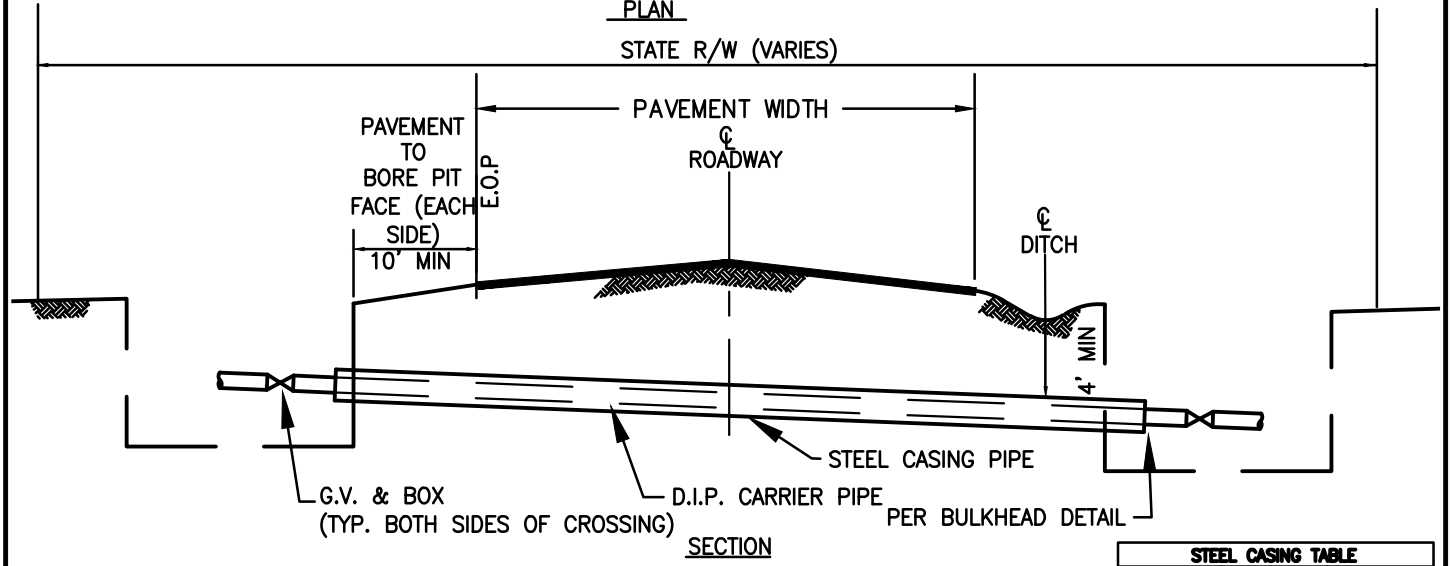
1. WHERE MINIMUM CLEARANCES CANNOT BE MAINTAINED, ALTERNATE PROCEDURES ARE REQUIRED. REF. CITY STANDARDS

CITY OF DAHLONEGA STANDARD DETAIL G4
WATER AND SEWER CLEARANCE

SCALE: NTS
DATE OF LAST REVISION: 03/22

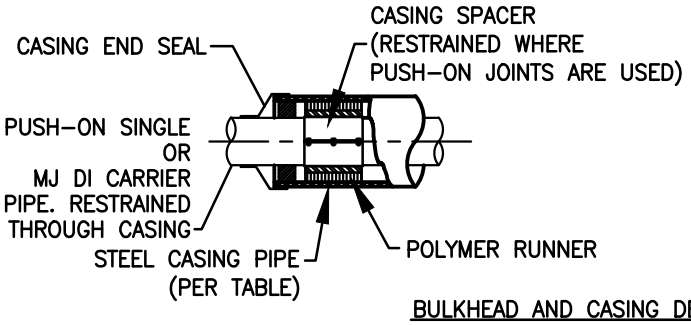


PLAN

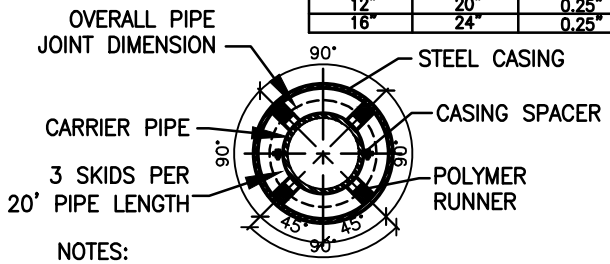


SECTION

STEEL CASING TABLE		
PIPE SIZE	CASING SIZE	PIPE WALL (IN.)
6"	14"	0.25"
8"	16"	0.25"
12"	20"	0.25"
16"	24"	0.25"



BULKHEAD AND CASING DETAILS



NOTES:

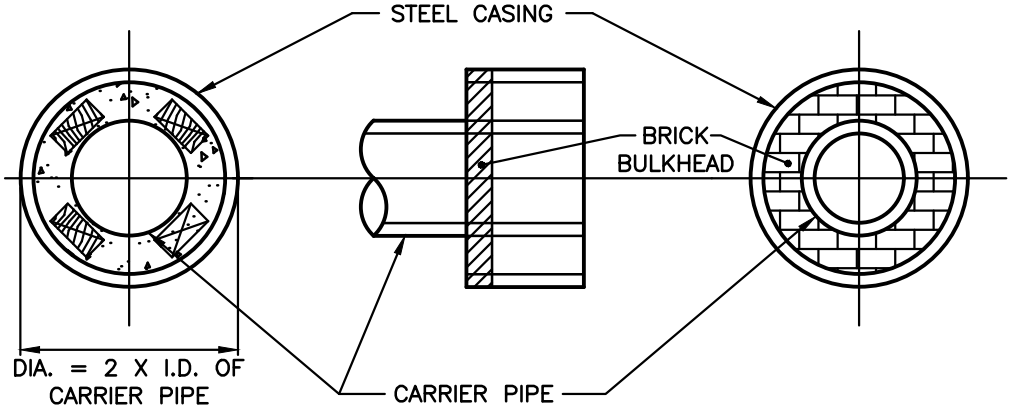
1. CASING PIPE TO MEET ASTM A-139, GRADE B.
2. CASING PIPE TO HAVE BITUMINOUS COATING.

CITY OF DAHLONEGA STANDARD DETAIL G5
BORED HIGHWAY CROSSING

SCALE: NTS
DATE OF LAST REVISION: 03/22

TREATED WOOD SKIDS SECURED AT BELL END OF EACH JOINT OF CARRIER PIPE (24" MINIMUM LEGNTH).

WOOD SKIDS SHALL BE TREATED IN ACCORDANCE WITH AMERICAN WOOD PRESERVES BUREAU STANDARD LP–22.



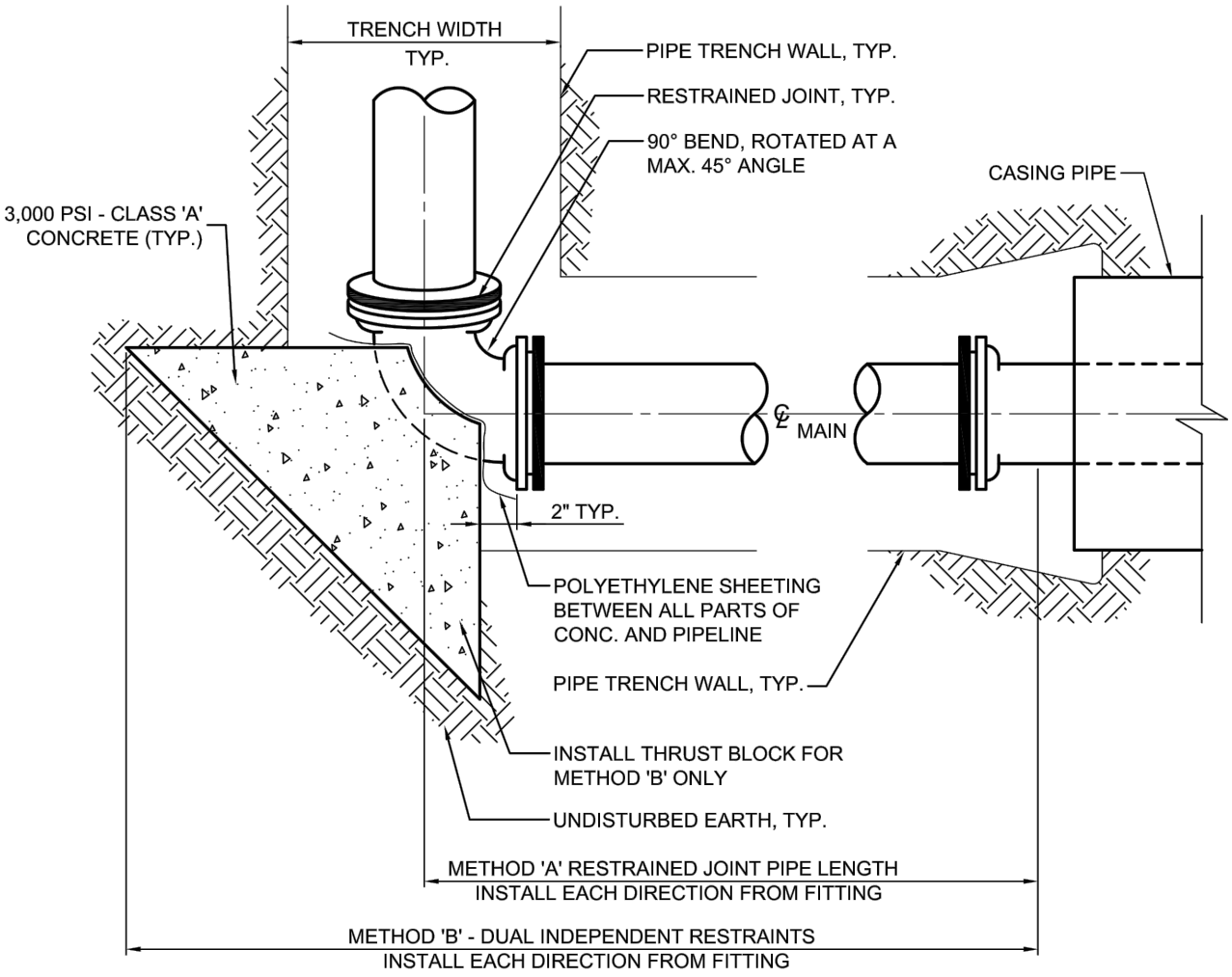
BLOCKING DETAIL

BULKHEAD DETAILS

NOTE: BLOCKING SHALL BE PLACED WHEN REQUIRED BY ENGINEER

CITY OF DAHLONEGA STANDARD DETAIL G6
AUGURED JACKED CASING

SCALE: NTS
DATE OF LAST REVISION: 03/22



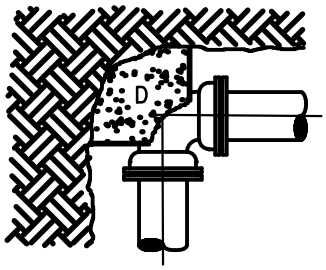
PLAN

NOTES:

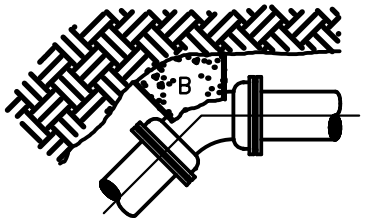
1. SEE TYPICAL HORIZONTAL THRUST RESTRAINT DRAWING G8 FOR METHOD 'A'.
2. IN LIEU OF THRUST BLOCK AND MEG-A-LUGS SHOWN FOR METHOD 'B', TIE-RODS AND MEG-A-LUGS MAY BE USED.
3. REFER TO TYPICAL HORIZONTAL THRUST BLOCK DRAWING G7 AND TYPICAL HORIZONTAL THRUST RESTRAINT DRAWING G8 FOR ADDITIONAL DETAILS.
4. WELDING OF EYE BOLTS TO CASING IS PROHIBITED.
5. RESTRAINED JOINT METHOD A: RESTRAINT JOINT PIPE AND FITTINGS.
6. RESTRAINED JOINT METHOD B: ONE (1) OF THE FOLLOWING DUAL (2) INDEPENDENT RESTRAINTS:
   A. MEGA-LUGS PLUS THRUST BLOCKING.
   B. MEGA-LUGS PLUS RODDING.

CITY OF DAHLONEGA STANDARD DETAIL G7
WATER MAIN RESTRAINT AT JACK AND BORE INSTALLATION

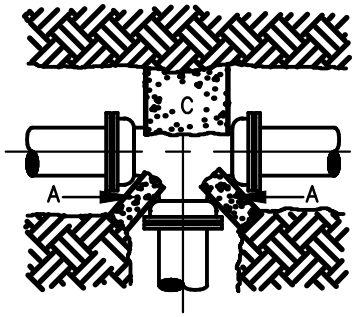
SCALE: NTS
DATE OF LAST REVISION: 03/22



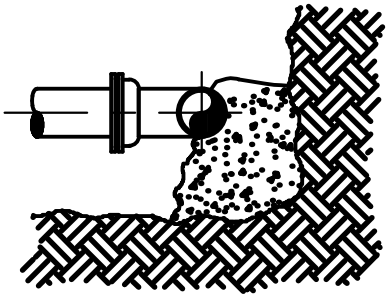
90° BEND



45° BEND



TEE



TYPICAL SECTION

THRUST BLOCK										
THRUST BLOCKS	MINIMUM CU. YDS. CONC.					MIN. SQ. FT. OF BEARING				
	4"	6"	8"	10"	12"	4"	6"	8"	10"	12"
A	.50	.50	.50	.75	.75	4.0	4.0	5.0	8.0	8.0
B	.75	.75	.75	1.0	1.0	6.0	6.0	6.0	8.0	8.0
C	.75	.75	1.25	1.5	1.5	6.0	6.0	7.5	12.0	12.0
D	.75	.75	1.25	1.5	1.5	6.0	6.0	7.5	16.0	16.0

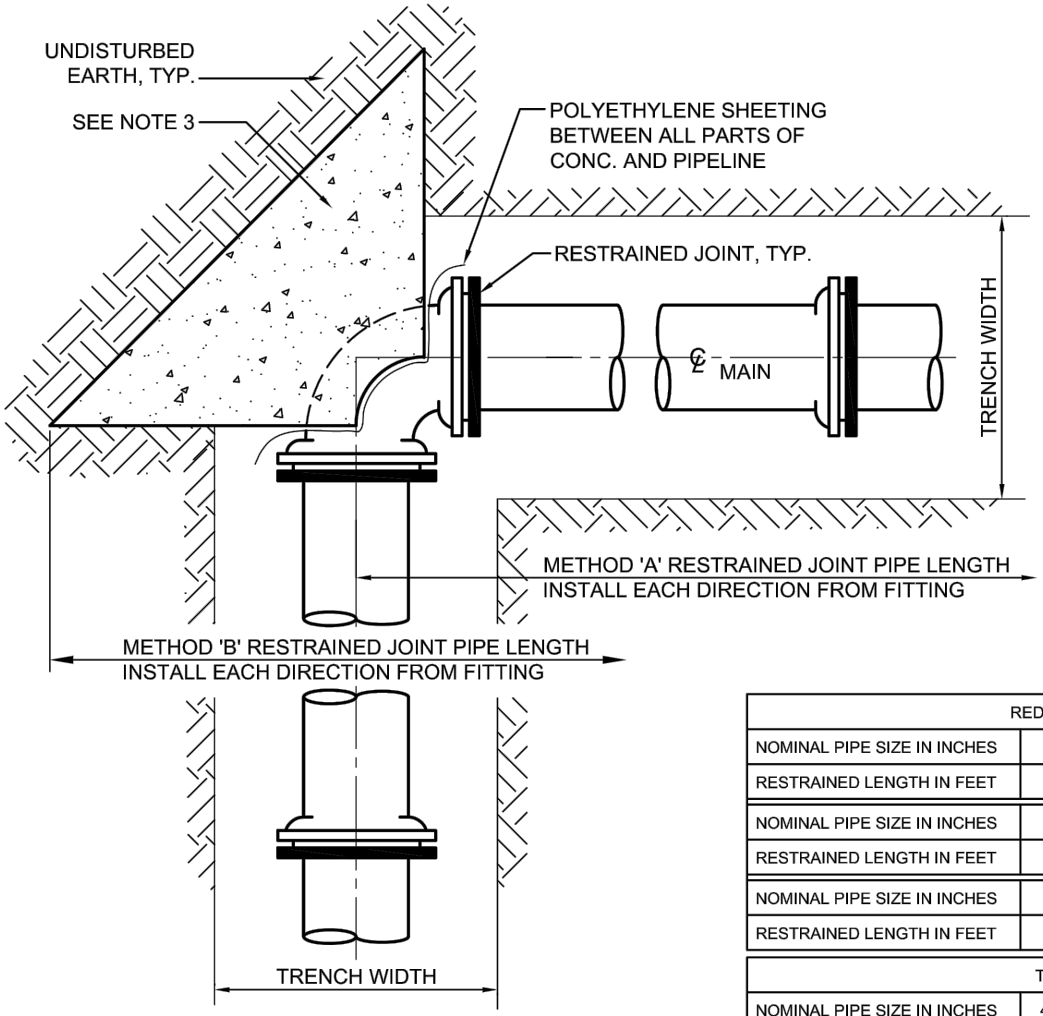
NOTES:

1. THRUST BLOCKS SHALL BE POURED AGAINST UNDISTURBED MATERIAL, WHERE TRENCH WALL HAS BEEN DISTURBED, EXCAVATE ALL LOOSE MATERIAL AND EXTEND THRUST BLOCK TO UNDISTURBED MATERIAL.
2. IN THE CASE OF FIRE HYDRANTS, WOOD SHEETING AND COMPACTED ROCK BACKING MAY BE OMITTED WHERE SOLID BEARING CAN BE OBTAINED.
3. ON TEES AND BENDS, EXTEND THRUST BLOCK FULL LENGTH. PUT WOOD BLOCKING IN FRONT OF PLUG BEFORE POURING CONCRETE THRUST BLOCK.
4. BACKFILLL SHALL CONSIST ENTIRELY OF CLEAN SAND AND ROCK FRAGMENTS. ANY MUCK ENCOUNTERED SHALL BE REPLACED WITH ACCEPTABLE BACKFILL.

CITY OF DAHLONEGA STANDARD DETAIL G8
THRUST BLOCKS

SCALE: NTS
DATE OF LAST REVISION: 03/22

DAHLONEGA
EST. 1833
FIRST MAJOR U.S. GOLD RUSH



PLAN

REDUCER							
NOMINAL PIPE SIZE IN INCHES		6x4	8x6	10x8	12x10	14x12	16x14
RESTRAINED LENGTH IN FEET		42	44	42	44	44	44
NOMINAL PIPE SIZE IN INCHES			8x4	10x6	12x8	14x10	16x12
RESTRAINED LENGTH IN FEET			76	80	78	80	82
NOMINAL PIPE SIZE IN INCHES				10x4	12x6	14x8	16x10
RESTRAINED LENGTH IN FEET				104	110	112	116

TEE							
NOMINAL PIPE SIZE IN INCHES	4	6	8	10	12	14	16
RESTRAINED LENGTH IN FEET	54	76	100	120	140	160	180

DEAD END OR CLOSED VALVE							
NOMINAL PIPE SIZE IN INCHES	4	6	8	10	12	14	16
RESTRAINED LENGTH IN FEET	54	76	100	120	140	160	180

90 DEGREE BEND							
NOMINAL PIPE SIZE IN INCHES	4	6	8	10	12	14	16
RESTRAINED LENGTH IN FEET	54	76	99	120	140	160	180

45 DEGREE BEND							
NOMINAL PIPE SIZE IN INCHES	4	6	8	10	12	14	16
RESTRAINED LENGTH IN FEET	23	32	41	50	58	67	75

22 1/2 DEGREE BEND							
NOMINAL PIPE SIZE IN INCHES	4	6	8	10	12	14	16
RESTRAINED LENGTH IN FEET	11	15	20	24	28	32	36

NOTES:

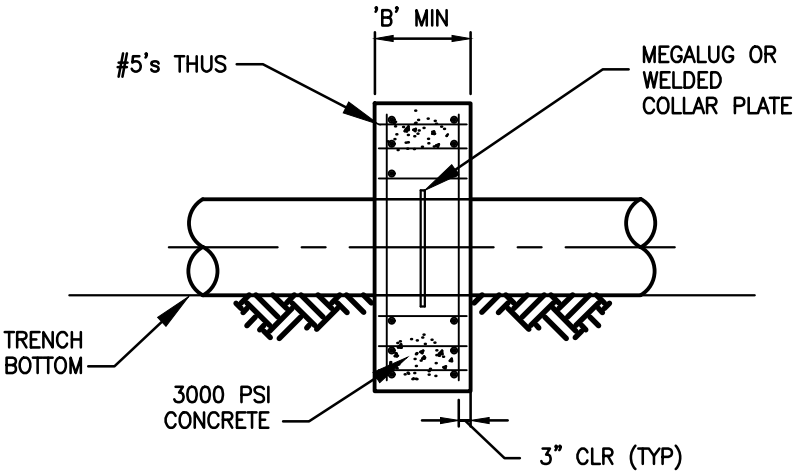
1. SOIL PREPARATION SHALL BE APPROVED BY THE CITY PRIOR TO POURING CONCRETE.
2. REFER TO TYPICAL HORIZONTAL THRUST BLOCKING DRAWING G7 FOR DETAILS.
3. INSTALL THRUST BLOCK ONLY WHEN METHOD 'B' PIPE RESTRAINT IS UTILIZED.
4. FOR PIPE SIZES LARGER THAN 16" THE DESIGN ENGINEER SHALL PROVIDE CALCULATIONS FOR RESTRAINED JOINT LENGTHS TO DWR FOR REVIEW PRIOR TO INSTALLATION.
5. RESTRAINED JOINT METHOD A: RESTRAINED JOINT PIPE AND FITTINGS.
6. RESTRAINED JOINT METHOD B: ONE (1) OF THE FOLLOWING DUAL (2) INDEPENDENT RESTRAINTS:
   A. MEGA-LUGS PLUS THRUST BLOCKING.
   B. MEGA-LUGS PLUS RODDING.

DESIGN CRITERIA:

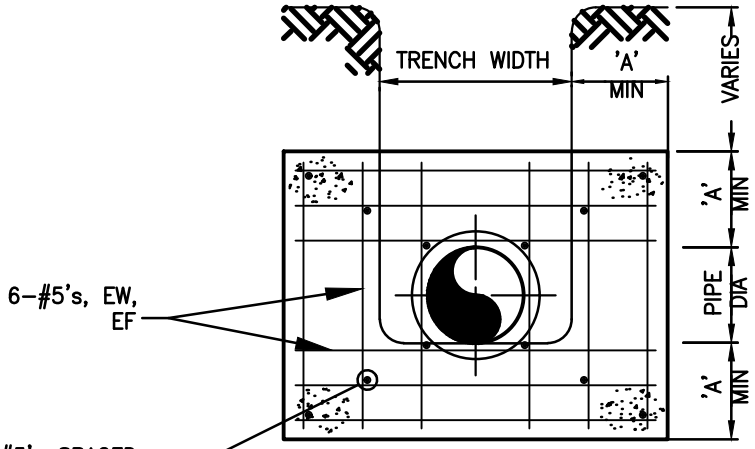
1. THRUST RESTRAINT DIMENSIONS ARE BASED ON PRESSURE CLASS DUCTILE IRON PIPE WITH BITUMASTIC EXTERIOR COATING, (WITHOUT POLYWRAP), MINIMUM SOIL BEARING PRESSURE OF 2,000 PSF, SILTY SOIL, TEST PRESSURE OF 250 PSI, 4 FEET OF UNSATURATED SOIL COVER, CLASS "D" PIPE BEDDING CONDITION, WITH A SAFETY FACTOR OF 1.5.

CITY OF DAHLONEGA STANDARD DETAIL G9
TYPICAL HORIZONTAL THRUST RESTRAINT

SCALE: NTS
DATE OF LAST REVISION: 03/22



ELEVATION

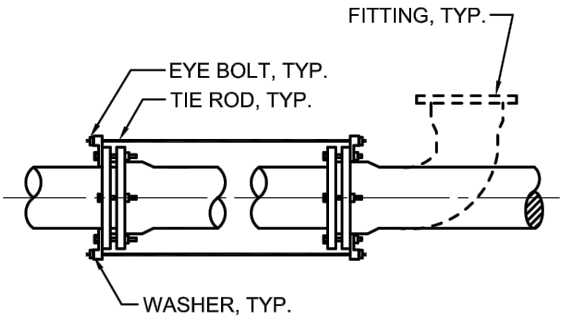


SECTION

PIPE DIAMETER	'A' DIMENSION	'B' DIMENSION
6" – 24"	1' – 4"	1' – 8"
> 24"	PER ENGR.	PER ENGR.

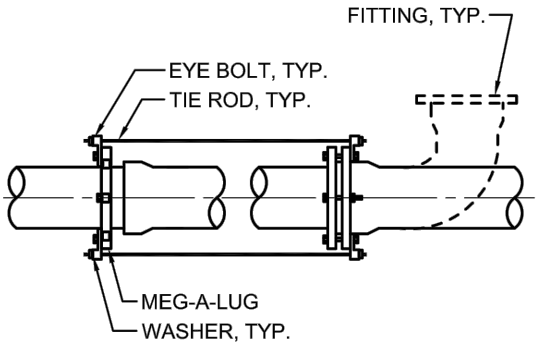
CITY OF DAHLONEGA STANDARD DETAIL G10
THRUST COLLAR

SCALE: NTS
DATE OF LAST REVISION: 03/22



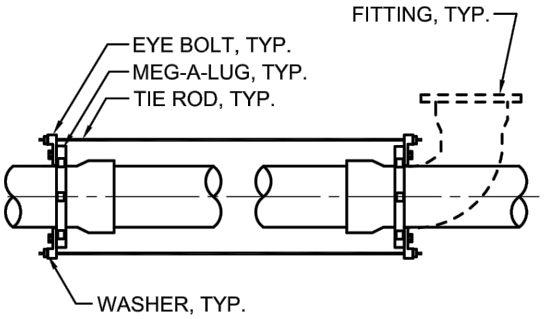
EYE BOLT TO EYE BOLT

TYPE 1
FITTING RESTRAINT



EYE BOLT TO MEG-A-LUG

TYPE 2
FITTING RESTRAINT



MEG-A-LUG TO MEG-A-LUG

TYPE 3
FITTING RESTRAINT

PIPE SIZE (IN.)	ROD SIZE (IN.)	NO. OF RODS (TEES, PLUGS, AND VALVES)	NO. OF RODS (11-1/4° - 22-1/2° BENDS)	NO. OF RODS (45° - 90° BENDS)
6	3/4	3	2	3
8	3/4	3	3	3
10	3/4	4	4	4
12	3/4	4	4	6
14	3/4	6	4	6
16	3/4	6	6	6
20	3/4	6	6	6
24	3/4	8	8	8
30	1	6	6	6
36	1	6	6	6

THRUST RESTRAINT

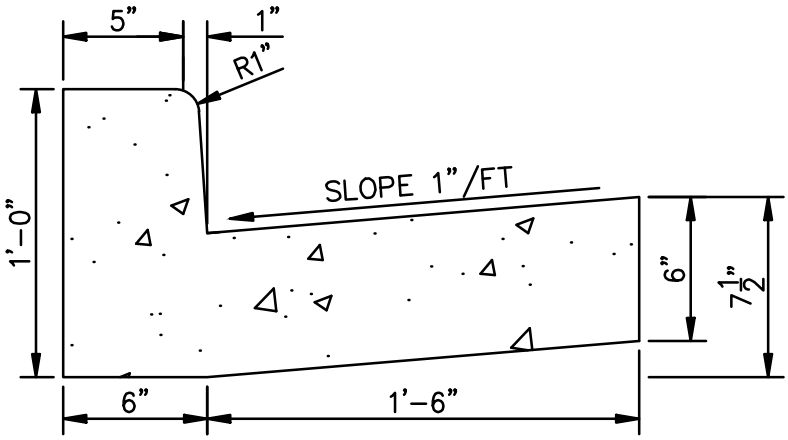
TIE ROD CHART

NOTES:
1. RODS SHALL BE A MINIMUM 304 S.S. ALL THREAD RODS WITH A MINIMUM YIELD STRENGTH OF 50,000 PSI.
2. USE LISTED NUMBER OF RODS AS SHOWN ON TIE ROD CHART (MINIMUM NUMBER SHOWN).
3. RODS MUST HAVE A MINIMUM OF 6" OF THREAD ON EACH END.
4. ALL STEEL MUST BE CLEANED AND COATED WITH ROYSTON ROSKOTE, KOPPERS SUPER SERVICE BLACK OR APPROVED EQUAL.
5. ALL NUTS USED ON TIE RODS MUST HAVE A WASHER.

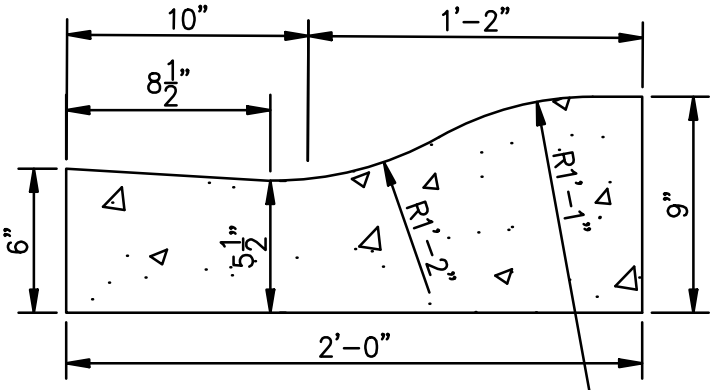
DESIGN CRITERIA:
1. FITTING SHOWN IS REPRESENTATIVE FOR ALL FITTINGS, VALVES, DEAD ENDS AND PLUGS.
2. FOR WATER MAINS AT A RATED TEST PRESSURE OF 250 PSI.

CITY OF DAHLONEGA STANDARD DETAIL G11
TYPICAL TIE ROD RESTRAINT INSTALLATION

SCALE: NTS
DATE OF LAST REVISION: 03/22



STANDARD



ROLL BACK

(DEVELOPER'S OPTION IN SINGLE FAMILY RESIDENTIAL AREAS)

NOTES:
1. PROVIDE CONTRACTION JOINTS AT INTERVALS OF 10 FEET. FORM OR SAW CONTRACTION JOINTS TO A DEPTH OF NOT LESS THAN 1.5 INCHES.
2. PROVIDE EXPANSION JOINTS WHERE CURB AND GUTTER ABUTS STRUCTURES. FORM EXPANSION JOINTS WITH FULL DEPTH, ½" THICK PRE-MOLDED JOINT FILLER.
3. PROVIDED FINAL CONCRETE SURFACE HAVING STIFF BRISTLE BROOM FINISH TRANSVERSE TO THE LINE OF TRAFFIC.

CITY OF DAHLONEGA STANDARD DETAIL G12
TYPICAL CURB

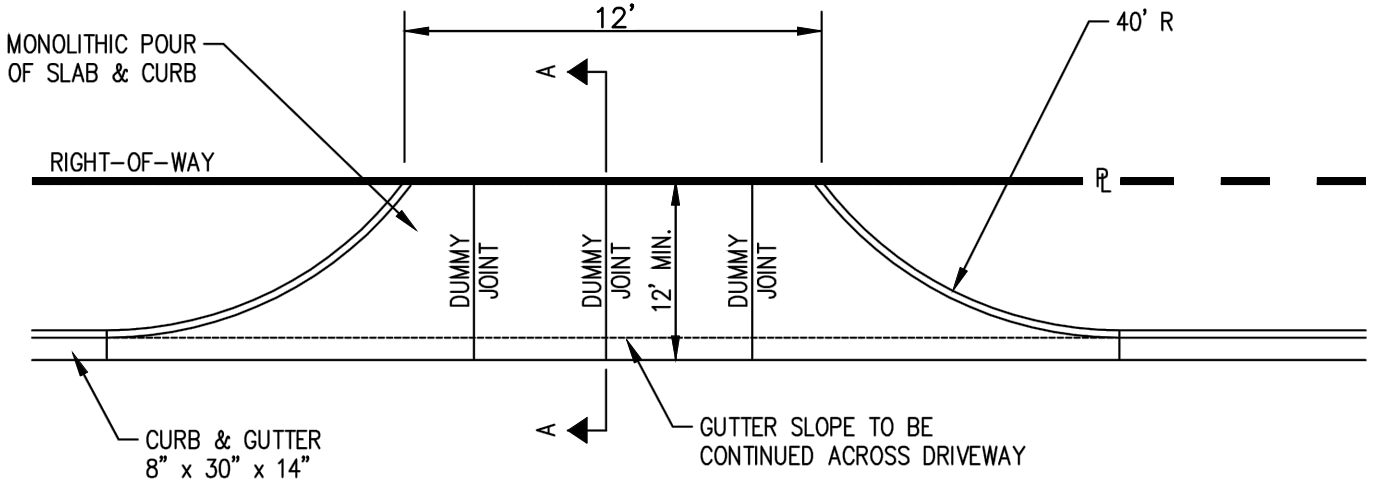
SCALE: NTS
DATE OF LAST REVISION: 03/22

CITY OF DAHLONEGA STANDARD DETAIL G13

ACCESS ROAD ENTRANCE

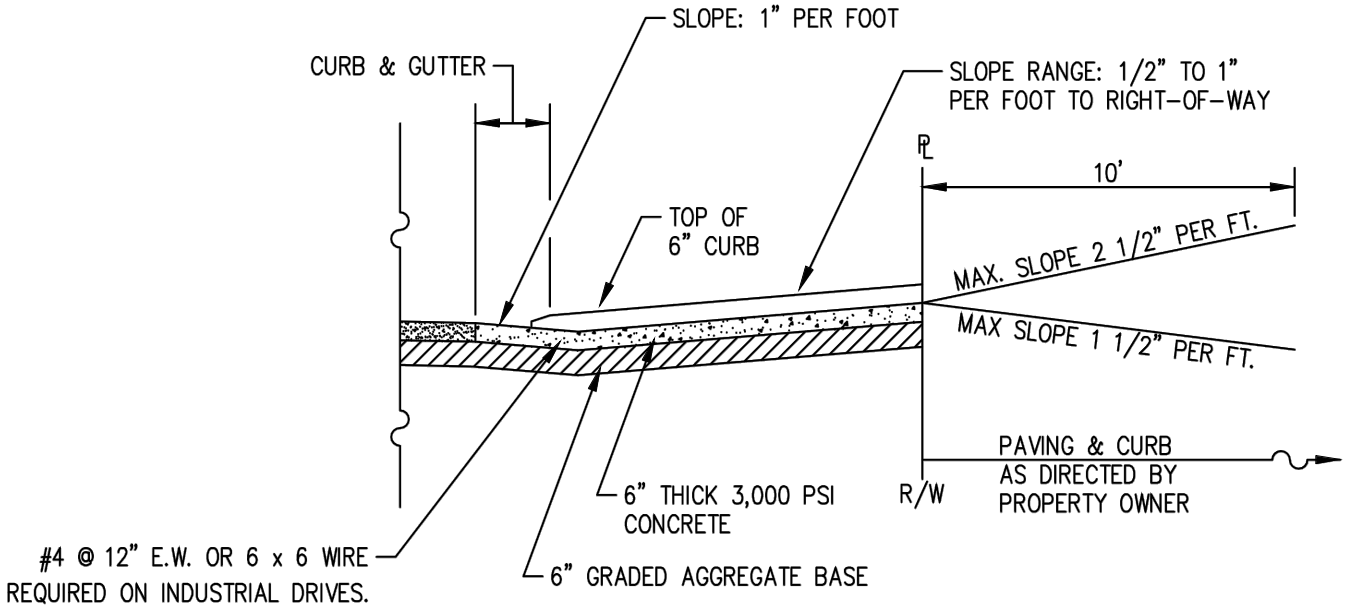
SCALE: NTS

DATE OF LAST REVISION: 03/22

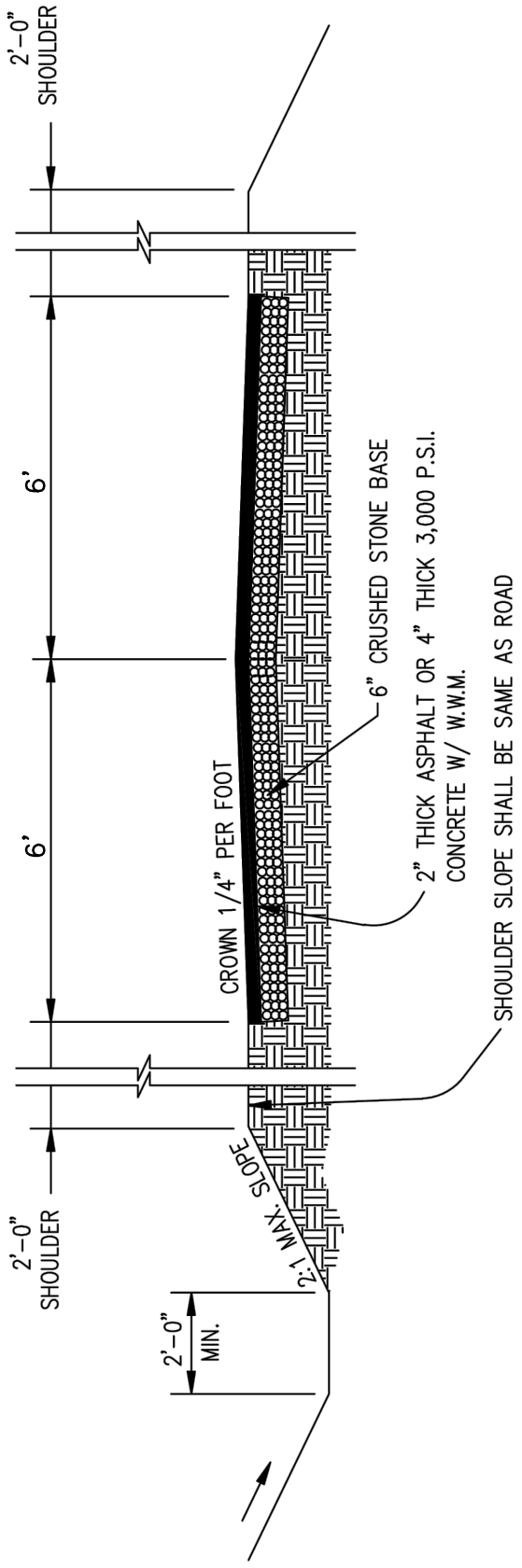


PLAN

ORIGINAL CURB AND GUTTER TO BE REMOVED.
ASPHALT TO BE PATCHED AS REQUIRED.



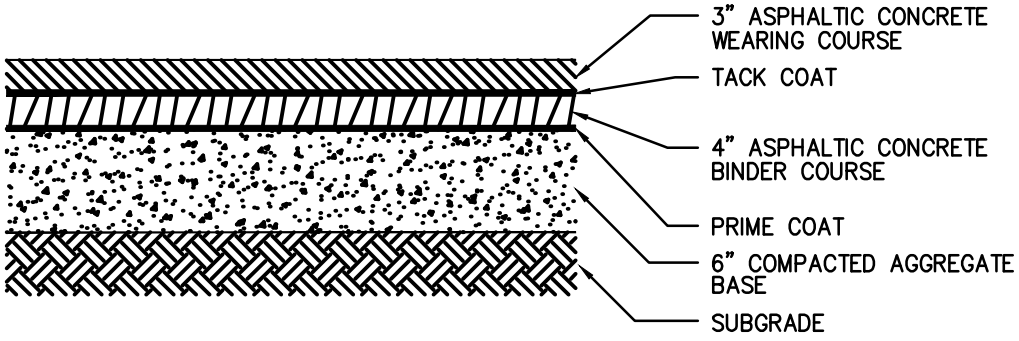
SECTION A-A



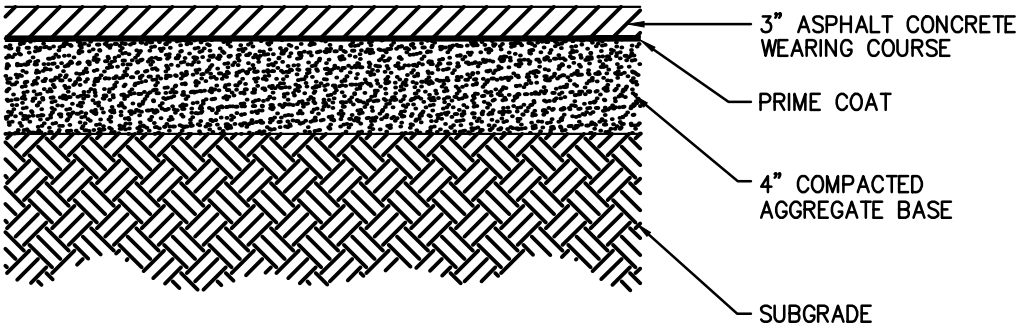
NOTES:
ENGINEER SHALL SUBMIT COPY OF PLAN AND PROFILE OF ACCESS ROAD FROM PUMP STATION SITE TO EXISTING ROAD OR STREET.
SLOPE OF ACCESS ROAD SHALL COMPLY WITH CITY REGULATIONS.

CITY OF DAHLONEGA STANDARD DETAIL G14
ACCESS ROAD SECTION

SCALE: NTS
DATE OF LAST REVISION: 03/22



HEAVY DUTY ASPHALT PAVEMENT

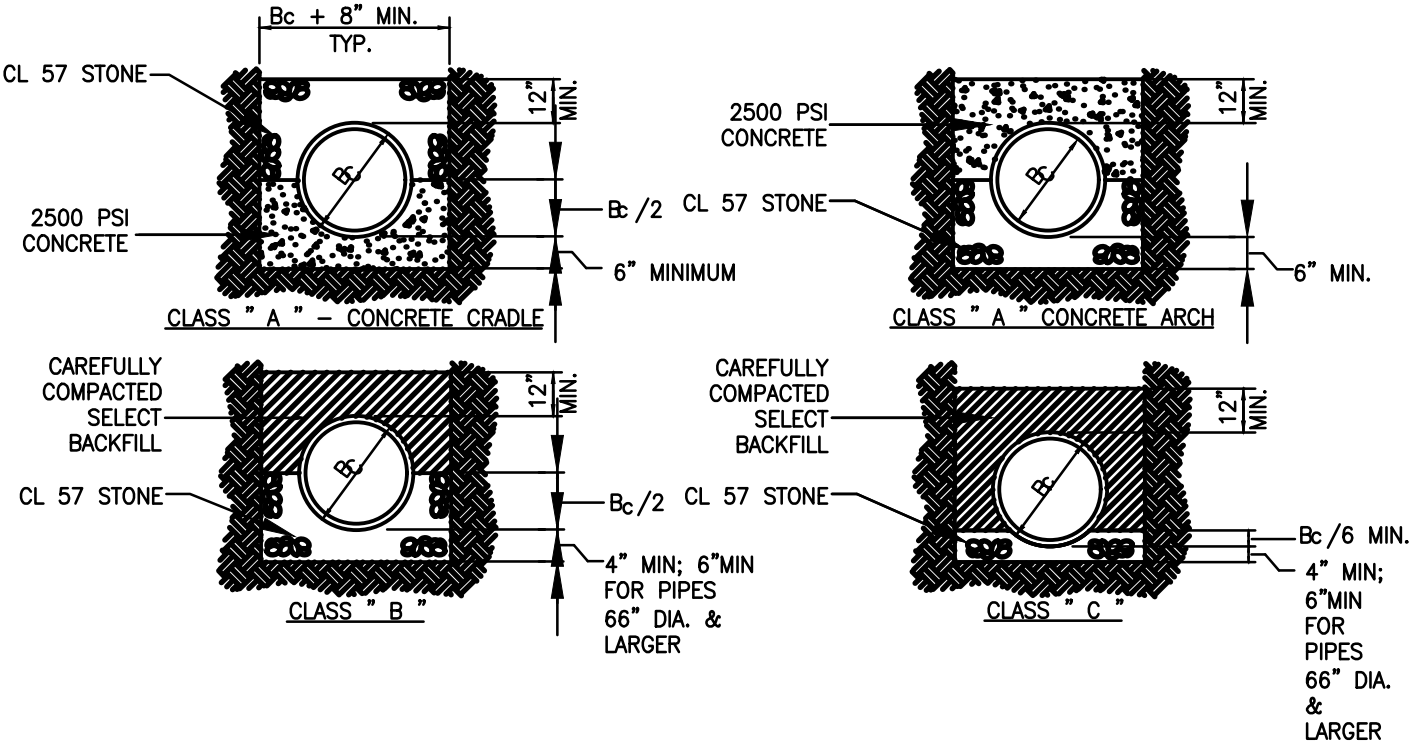


LIGHT DUTY ASPHALT PAVEMENT

NOTES:
1. 12.5MM OR 9.5MM MIX FOR CITY ROADWAYS TO BE CHOSEN AT THE DISCRETION OF THE CITY ENGINEER.

CITY OF DAHLONEGA STANDARD DETAIL G15
TYPICAL PAVEMENT SECTIONS

SCALE: NTS
DATE OF LAST REVISION: 03/22

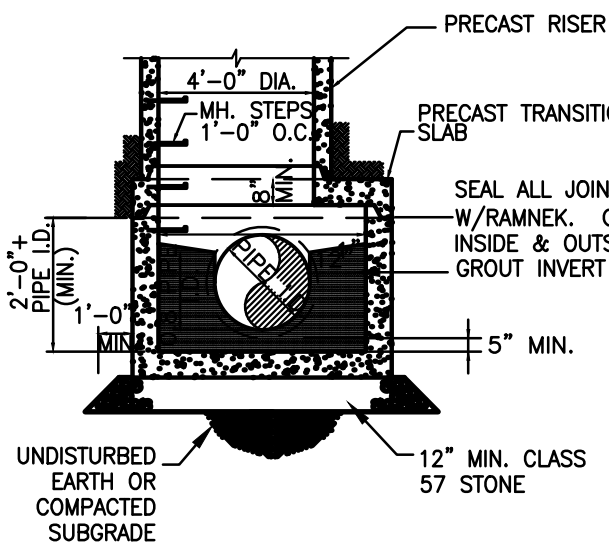


NOTES:

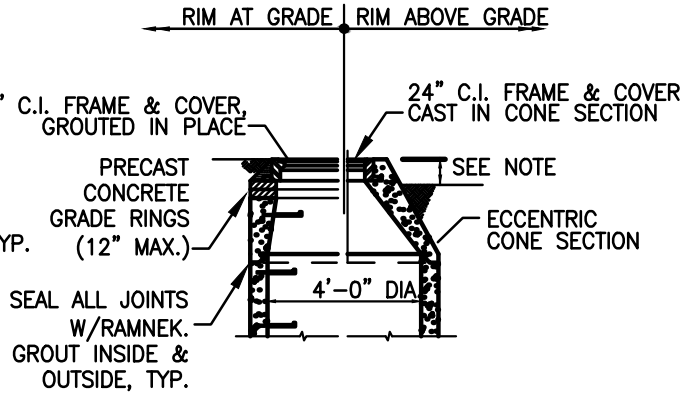
1. COMPACTION: BACKFILL SHALL BE BUILT UP IN LAYERS AND EACH LAYER SHALL BE THOROUGHLY COMPACTED BEFORE BEGINNING ANOTHER LAYER. LAYERS SHALL BE NO MORE THAN 6" IN DEPTH. PUDDLING WILL NOT BE PERMITTED, FROZEN OR WET MATERIAL SHALL NOT BE PLACED IN TRENCHES.
2. COMPACTION STANDARDS: ALL BACKFILL MATERIALS USED SHALL CONTAIN A SUFFICIENT AMOUNT OF MOISTURE FOR PROPER COMPACTION AND THESE MATERIALS SHALL BE COMPACTED AT NOT LESS THAN 95% OF THEIR OPTIMUM CLASSIFICATION AS DETERMINED BY THE MODIFIED PROCTOR TEST, ASTM D698.
3. COMPACTION TESTS: COMPACTION TESTS SHALL BE REQUIRED IN EXISTING OR PROPOSED STREETS, SIDEWALKS, DRIVES AND OTHER EXISTING OR PROPOSED PAVED AREAS AT VARYING DEPTHS AND AT INTERVALS AS DETERMINED BY THE CITY WITH A MINIMUM OF ONE TEST ON EACH JOB AND A MAXIMUM OF ONE REQUIRED TEST FOR EACH 400' OR LESS OF UTILITY MAIN CONSTRUCTION, UNLESS SOIL CONDITIONS OR CONSTRUCTION PRACTICES, IN THE OPINION OF THE CITY, WARRANT THE NEED FOR ADDITIONAL TESTS.
4. FOR EXCAVATION IN POOR SOIL OR ROCK: REMOVE UNSUITABLE MATERIAL WIDTH AND DEPTH DIRECTED BEFORE PIPE IS LAID. THE SUBGRADE SHALL BE BACKFILLED WITH AN APPROVED MATERIAL IN 6" LAYERS. EACH LAYER SHALL BE THOROUGHLY TAMPED TO 95% COMPACTION.
5. NO BOULDERS OR LOOSE ROCKS PERMITTED IN THE BACKFILL FROM BOTTOM OF PIPE TRENCH TO 2'–0" ABOVE PIPE.
6. FOR LOADING FACTORS LESS THAN 1.5 WHERE SUITABLE, UNDISTURBED SOIL IS PRESENT, USE CLASS "D" BEDDING. USE CLASS "C" BEDDING IF THE PIPE WILL BE SUBJECTED TO A LOADING FACTOR LESS THAN 1.5 AND IF OVEREXCAVATION OCCURS DUE TO ROCK AND/OR UNSUITABLE MATERIAL BEING ENCOUNTERED. USE CLASS "B" BEDDING FOR PIPES SUBJECTED TO A LOADING FACTOR GREATER THAN 1.5.

CITY OF DAHLONEGA STANDARD DETAIL S1
SEWER PIPE BEDDING DETAILS

SCALE: NTS
DATE OF LAST REVISION: 03/22

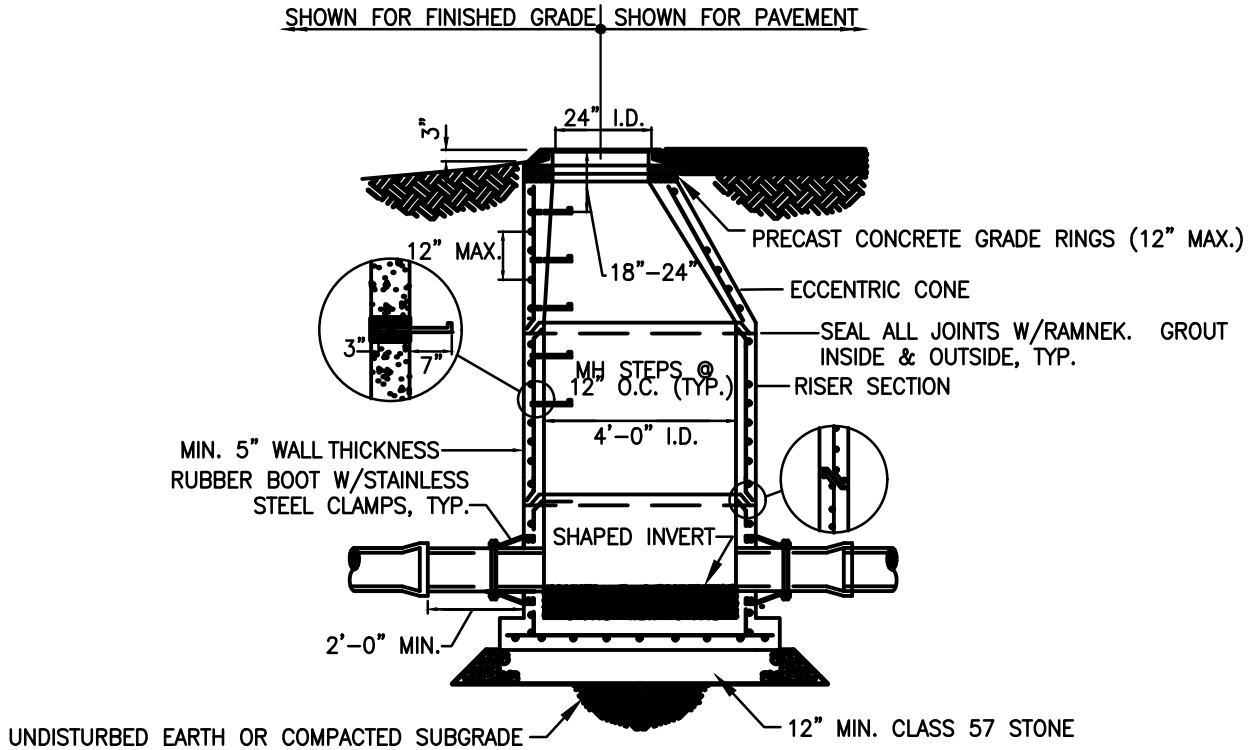


MANHOLE BASE DETAIL FOR 5'-0" DIA. OR LARGER BASES



MANHOLE CONE DETAILS

NOTE: SET RIM ELEVATION 3' ABOVE GRADE IN FLOOD-PRONE OR SWAMPY AREAS OR WHERE DIRECTED BY THE CITY.

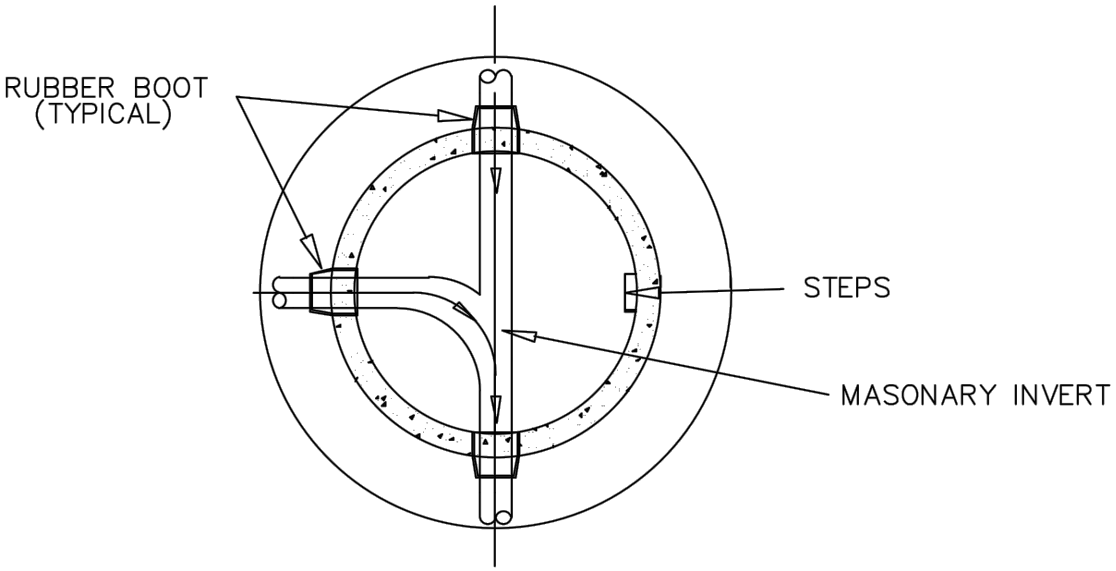


STANDARD PRECAST CONCRETE MANHOLE

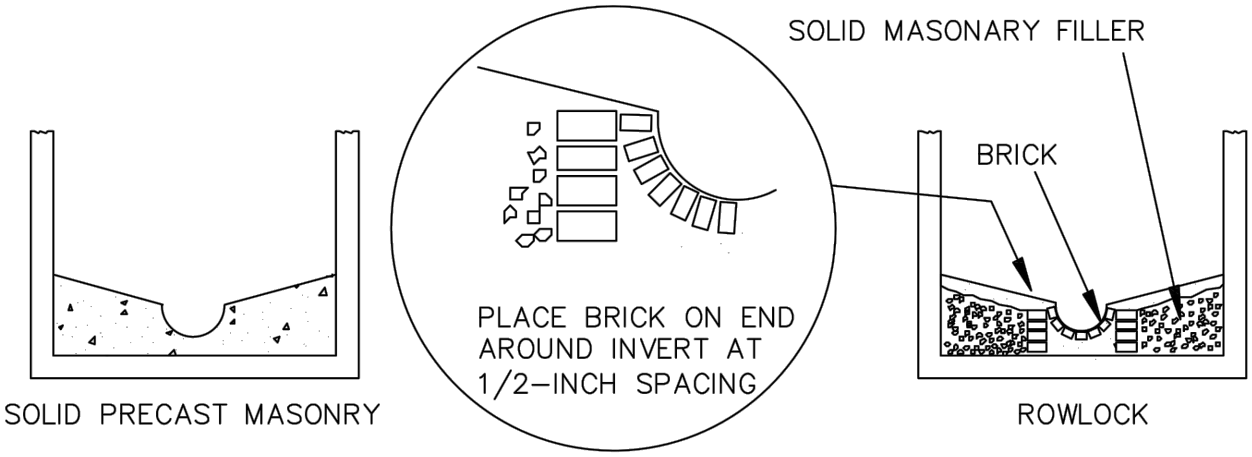
CITY OF DAHLONEGA STANDARD DETAIL S2
MANHOLE DETAILS

SCALE: NTS
DATE OF LAST REVISION: 03/22

R:\2047-0001 Dahlonega-Standards & Specifications\3 ENGINEERING\Drawings\S2 - Standard Manhole.DWG Fri, 03/17/23 3:09 PM



PLAN VIEW OF MANHOLE



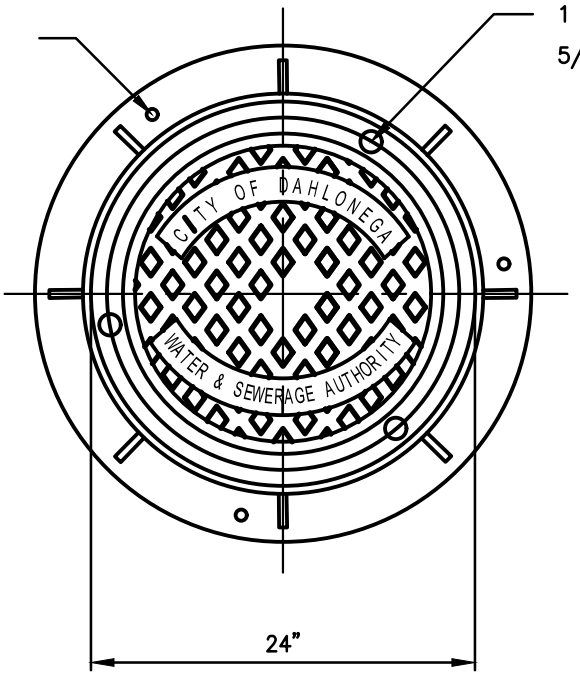
NOTE:

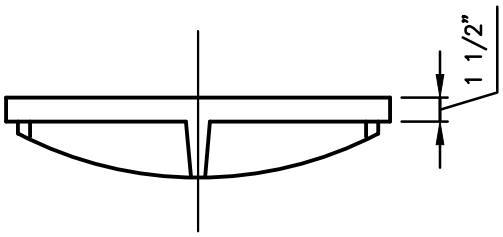
1. PRECAST INVERTS AREA ACCEPTABLE (NO FIELD MODIFICATIONS ALLOWED).
2. ENSURE A 0.2 FOOT DROP ACROSS INVERT.
3. FIELD INSTALLED INVERTS MUST BE ROWLOCK.
4. INVERTS FOR MANHOLES RECEIVING FORCEMAINS SHALL BE SIMILARLY CONSTRUCTED.
5. NO FIELD-MODIFICATION OF PRE-CAST INVERTS ALLOWED.
6. MAXIMUM GROUT SPACING BETWEEN BRICK SHALL BE 3/8".

PIPE SIZE	DEFLECTION	MIN. MH DIA.
8" & 15"	0° – 90°	4' – 0"
18"	0° – 60°	4' – 0"
18"	60° – 90°	5' – 0"
21" & 24"	0° – 60°	5' – 0"
21" & 24"	60° – 90°	6' – 0"

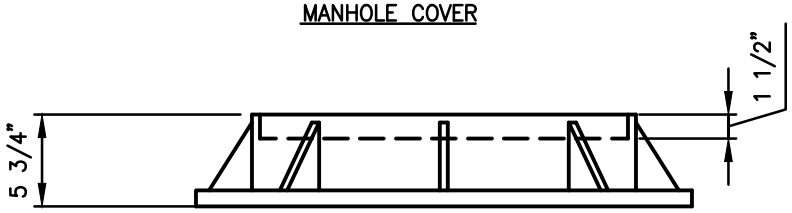
CITY OF DAHLONEGA STANDARD DETAIL S3
STANDARD INVERT

SCALE: NTS
DATE OF LAST REVISION: 03/22





MANHOLE COVER



MANHOLE FRAME

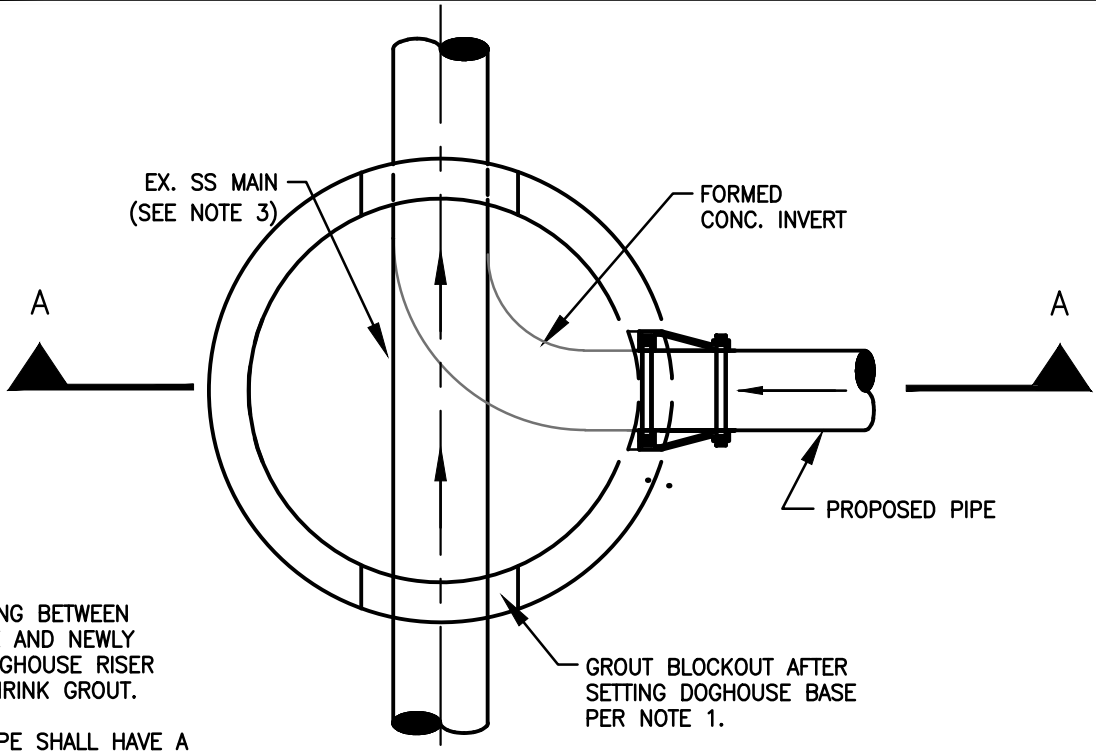
NOTES:

1. HEAVY DUTY CAST IRON FRAME AND COVER TO BE RATED FOR H-20 LOADING WITH LETTERING ON COVER AS SHOWN.

2. USE BOLT DOWN, GASKETED FRAME AND COVER WITHIN 100-YEAR FLOODPLAIN, JURISDICTIONAL WETLANDS OR OTHER AREAS PRONE TO FLOODING.

CITY OF DAHLONEGA STANDARD DETAIL S4
24" MANHOLE RING AND COVER

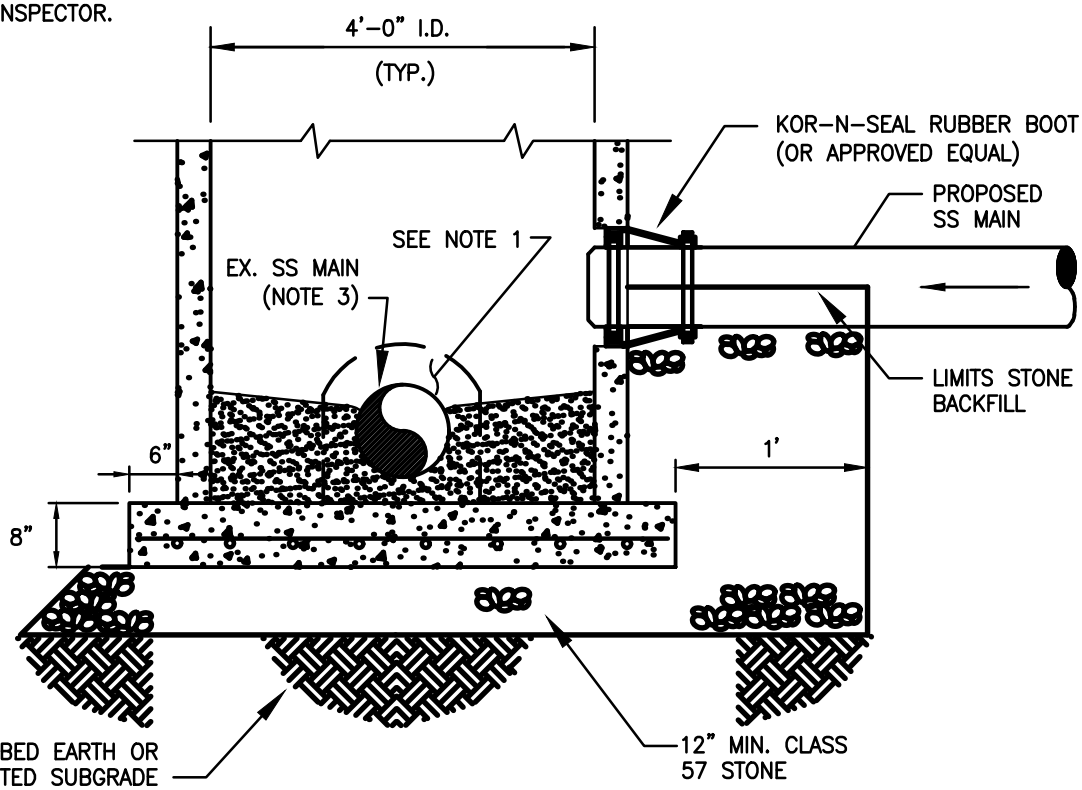
SCALE: NTS
DATE OF LAST REVISION: 03/22



PLAN

NOTES

1. GROUT OPENING BETWEEN EXISTING PIPE AND NEWLY INSTALLED DOGHOUSE RISER WITH NON-SHRINK GROUT.
2. PROPOSED PIPE SHALL HAVE A MINIMUM 8" DROP INTO MANHOLE WHENEVER POSSIBLE.
3. TOP PORTION OF EXISTING PIPE SHALL NOT BE REMOVED UNTIL AUTHORIZED BY INSPECTOR.



SECTION A-A

CITY OF DAHLONEGA STANDARD DETAIL S5
DOGHOUSE MANHOLE

SCALE: NTS
DATE OF LAST REVISION: 03/22

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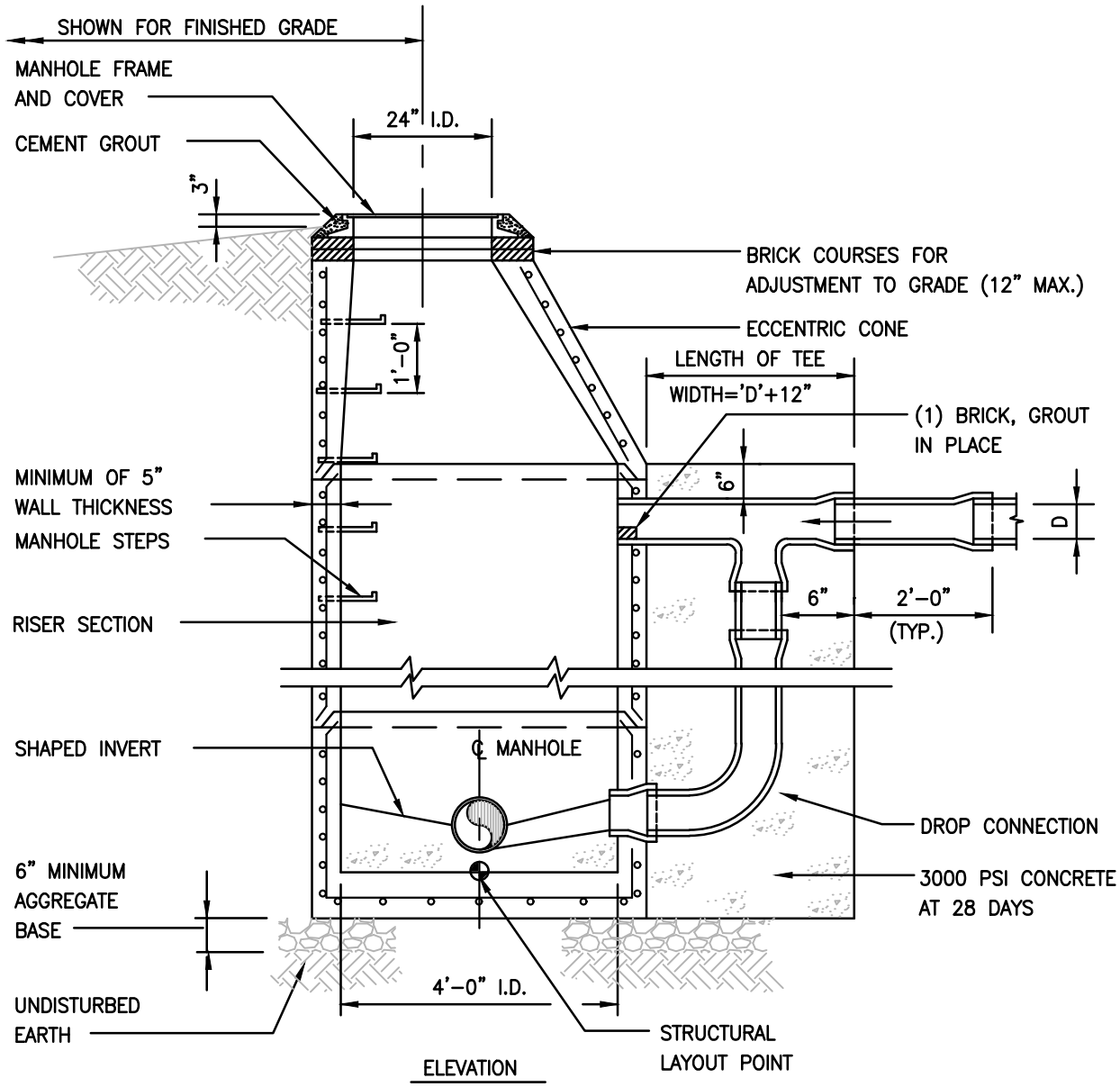
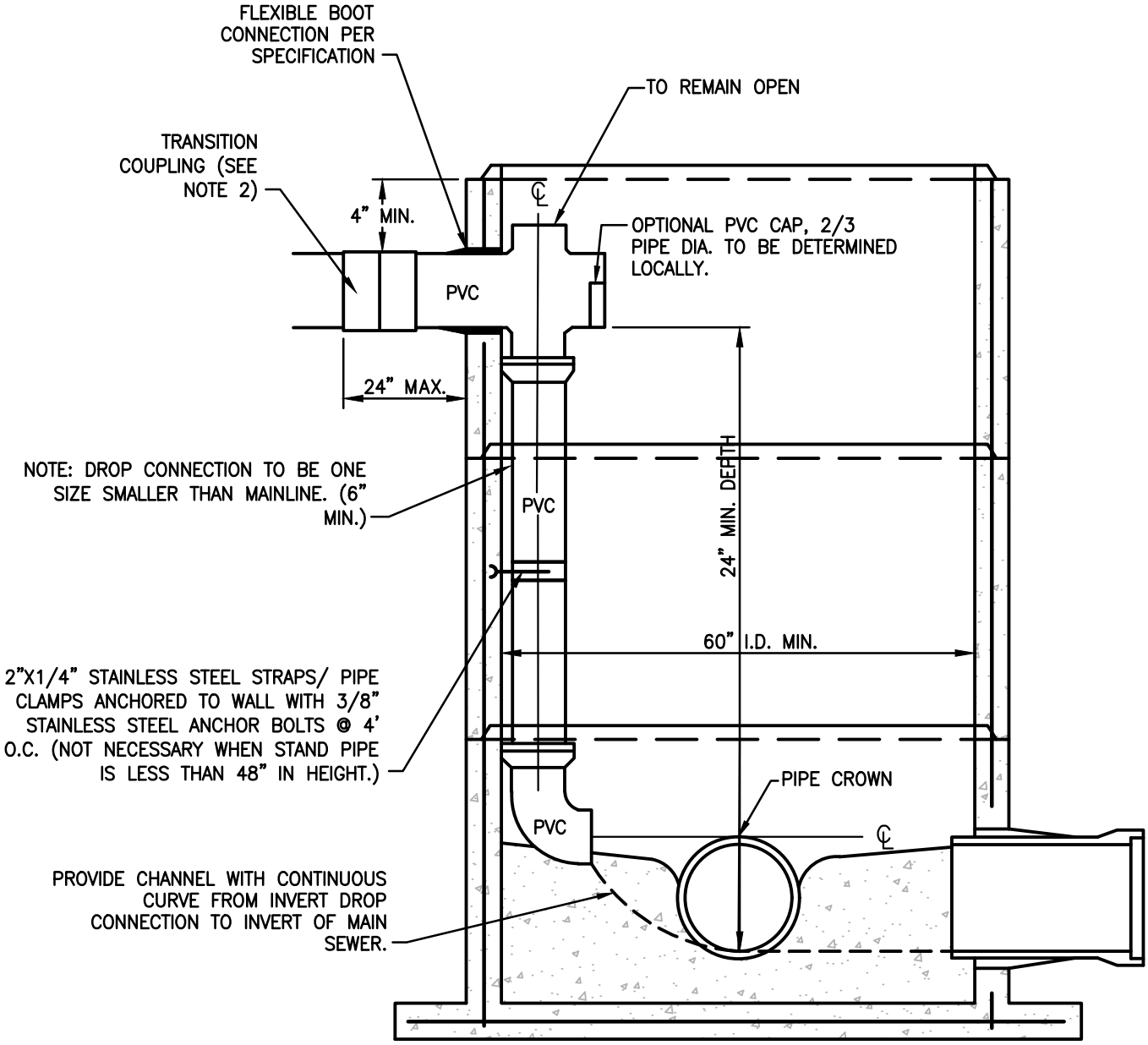


NOTE: TO BE USED WHERE DROP IS MORE THAN 2'-0".

CITY OF DAHLONEGA STANDARD DETAIL S6
OUTSIDE DROP MANHOLE

SCALE: NTS
DATE OF LAST REVISION: 03/22

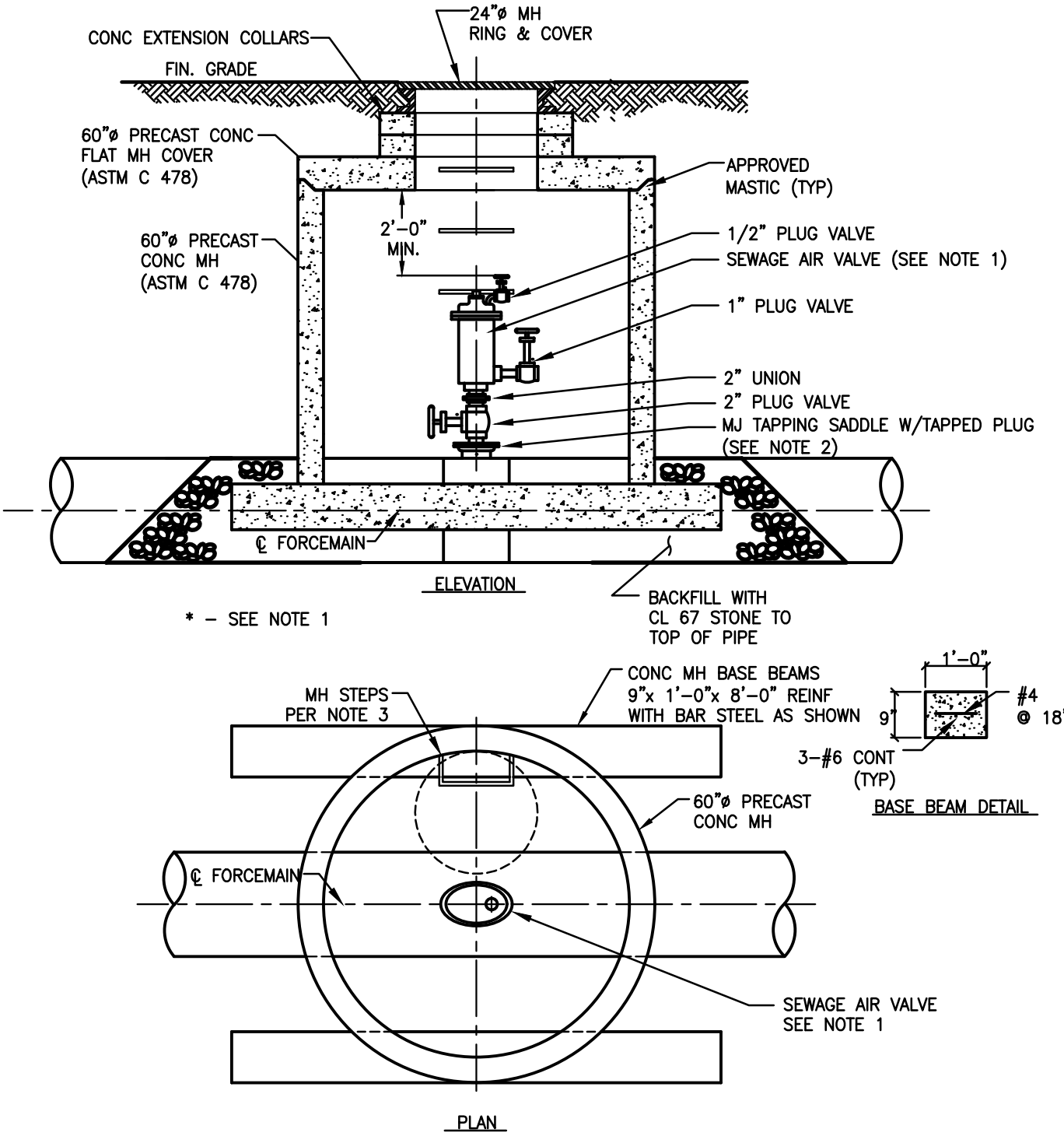


NOTES:

1. INTERIOR DROP TO BE USED IN NEW MANHOLES.
2. SOLVENT WELD JOINTS ON ALL INSIDE PIPING AND FITTINGS.
3. MAINLINE TO PVC DROP CONNECTION SHALL BE MADE WITH APPROVED COUPLING.
4. PLACEMENT OF DROP CONNECTION SHALL NOT CONFLICT WITH THE PLACEMENT OF THE MANHOLE STEPS.
5. BOTTOM 90 DEGREE BEND TO BE AT 45 DEGREES WITH RESPECT TO THE DOWNSTREAM FLOW.
6. MANHOLE TO RECEIVE FACTORY APPLIED COATING OF SKIDGAURD 62 OR EQUAL, MIN. THICKNESS TO BE 10 MIL. SKIDGAURD 62, OR APPROVED EQUAL, TO BE APPLIED TO ANY EXPOSED INTERIOR SURFACE OF MANHOLE AFTER GROUTING.
7. PRECAST CONCRETE MANHOLE TO BE IN COMPLIANCE WITH ASTM C-478.

CITY OF DAHLONEGA STANDARD DETAIL S7
INSIDE DROP MANHOLE

SCALE: NTS
DATE OF LAST REVISION: 03/22

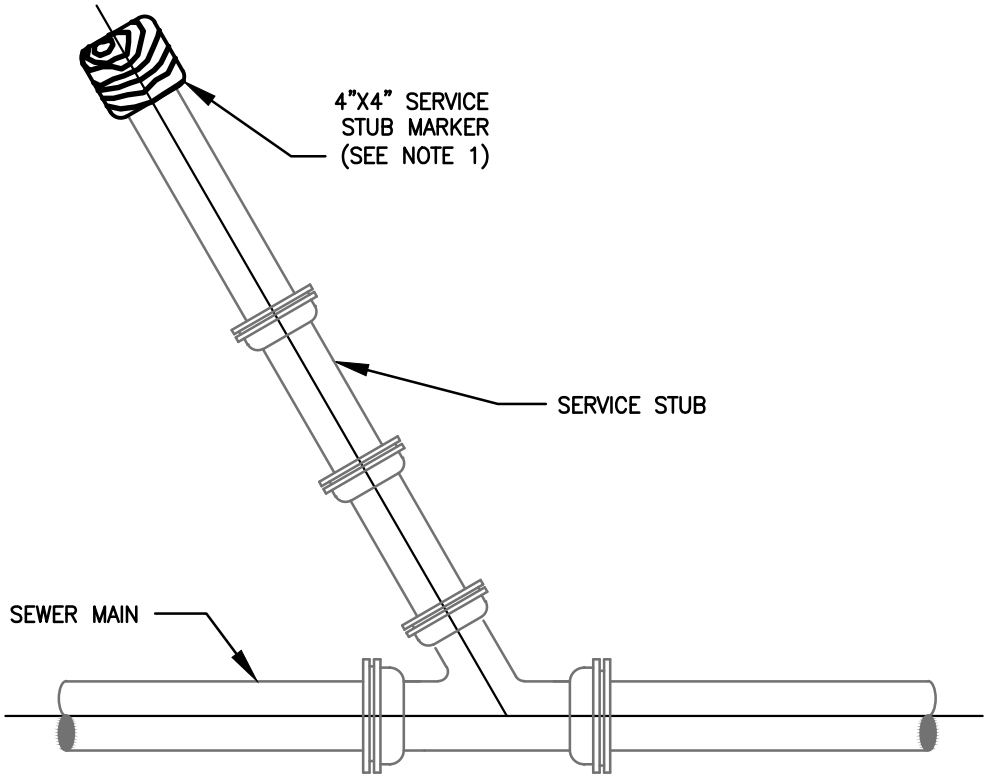


NOTES:

1. SIZE AIR VALVES PER MANUF. RECOMMENDATIONS BASED ON FORCEMAIN SIZE AND CONFIGURATION.
2. USE 8" MJ TAPPING SADDLE FOR 12" AND LARGER FORCEMAINS, USE 4" MJ TAPPING SADDLE FOR 10" AND SMALLER FORCEMAINS.
3. THE DISTANCE BETWEEN RUNGS, CLEATS, AND STEPS SHALL NOT EXCEED 12 INCHES AND SHALL BE UNIFORM THROUGHOUT THE LENGTH OF THE LADDER. LADDER RUNGS ARE REQUIRED IN PRECAST CONC MH.

CITY OF DAHLONEGA STANDARD DETAIL S8
SEWAGE AIR RELEASE VALVE MANHOLE

SCALE: NTS
DATE OF LAST REVISION: 03/22



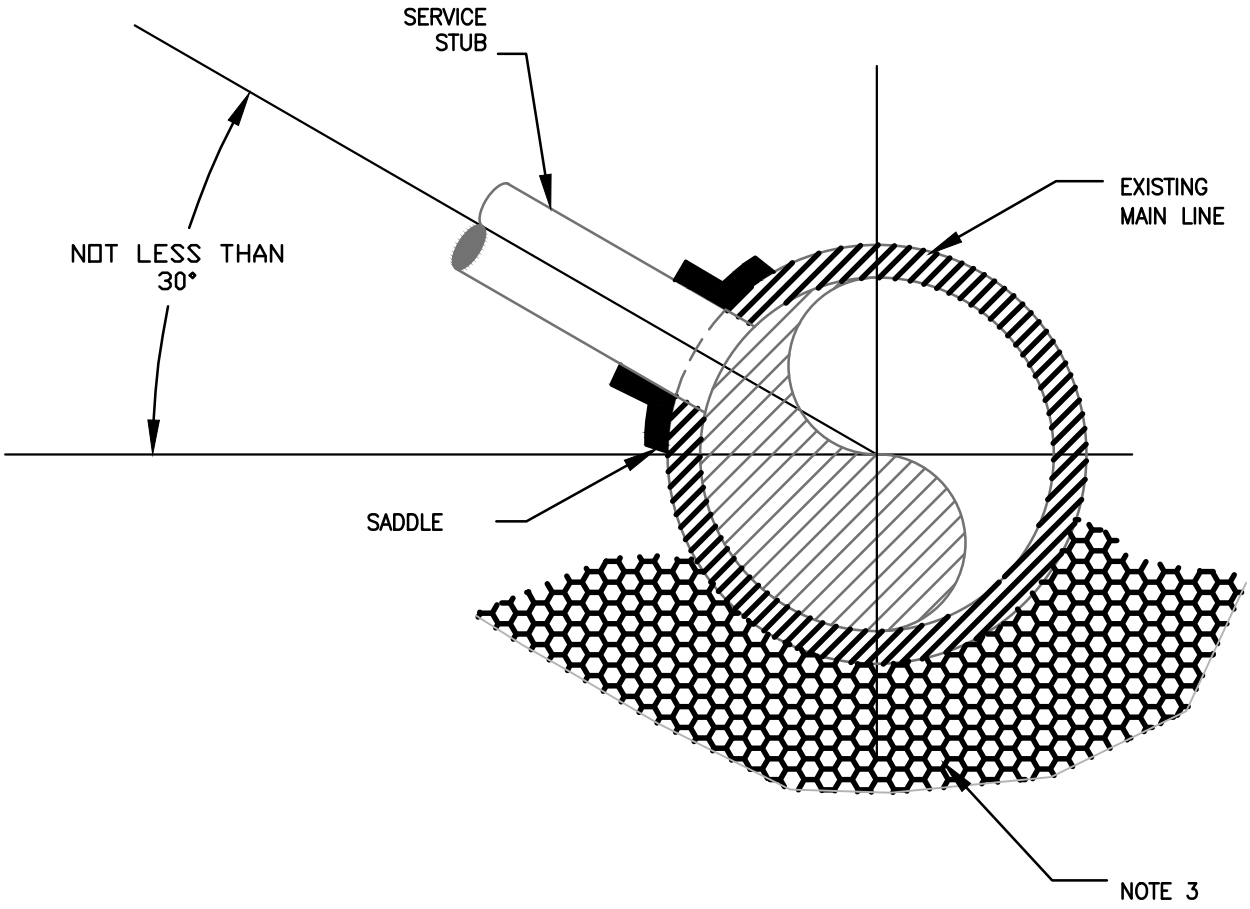
NOTES:

1. IDENTIFY SERVICE STUB MARKER AS PER OSHA SAFETY STANDARD SPECIFICATION 1910.4 UTILITY PROTECTION MARKING PAINT (GREEN).

2. EXTEND SERVICE STUB 5' WITHIN PROPERTY LINE.

CITY OF DAHLONEGA STANDARD DETAIL S9
SERVICE CONNECTION LOCATION

SCALE: NTS
DATE OF LAST REVISION: 03/22

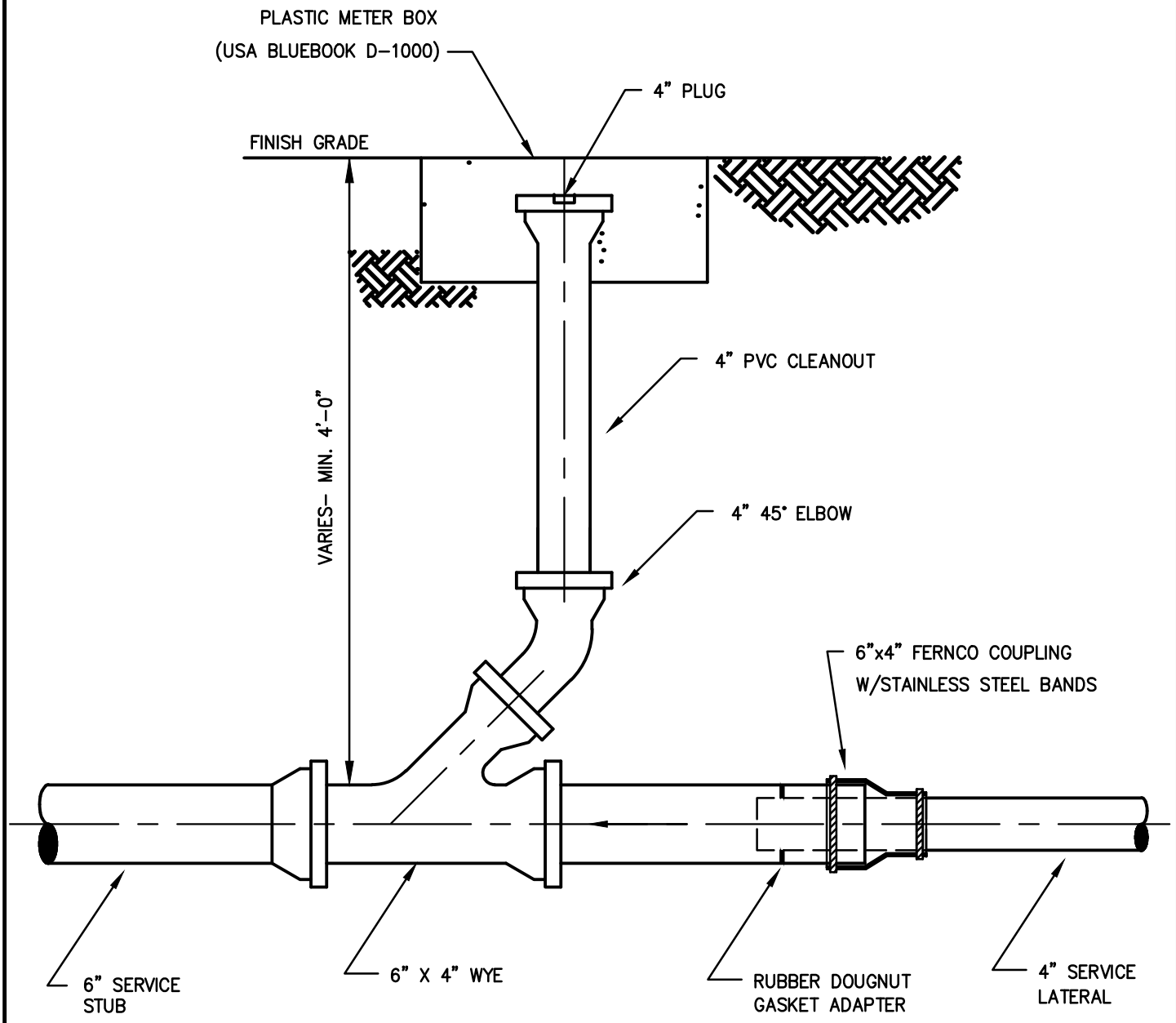


NOTES:

1. ALL TAPS TO BE MADE BY THE CITY OF DAHLONEGA.
2. CONTRACTOR TO OPEN DITCH AND EXPOSE PIPE PRIOR TO REQUESTING THE CITY TO MAKE TAP.
3. CONTRACTOR SHALL NOT DISTURB EXISTING PIPE BEDDING.

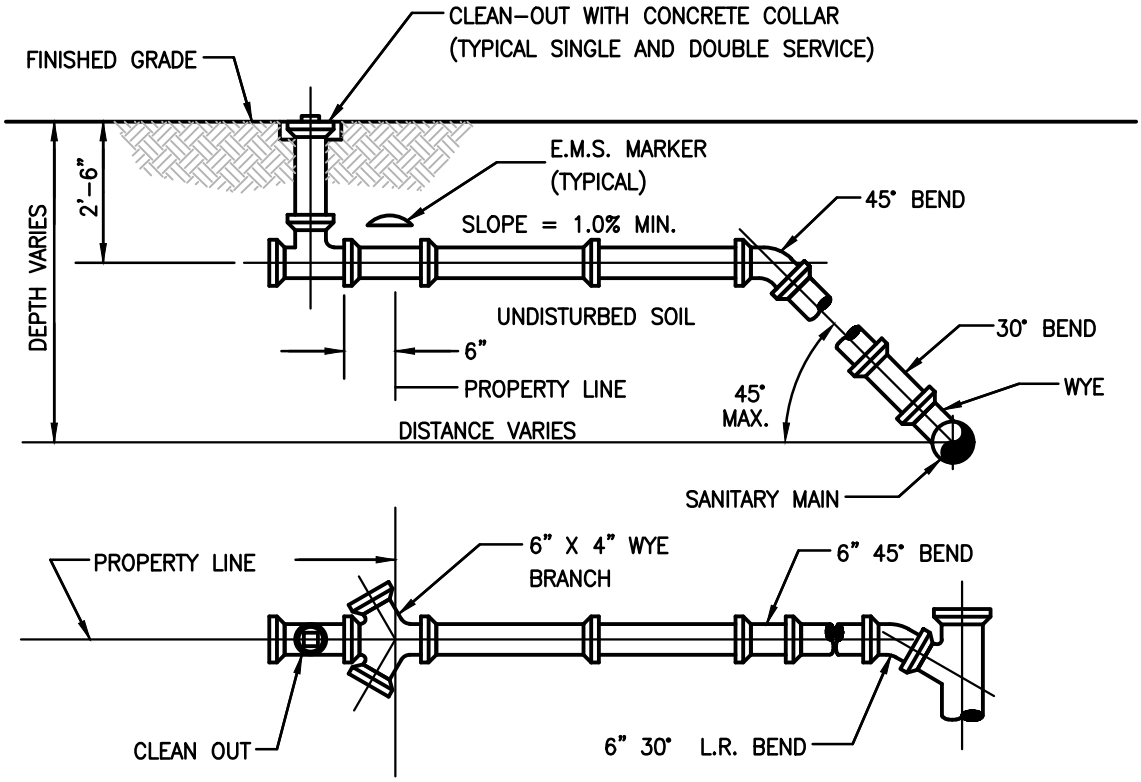
CITY OF DAHLONEGA STANDARD DETAIL S10
SERVICE CONNECTION TAP

SCALE: NTS
DATE OF LAST REVISION: 03/22



CITY OF DAHLONEGA STANDARD DETAIL S11
SEWER LATERAL CONNECTION

SCALE: NTS
DATE OF LAST REVISION: 03/22

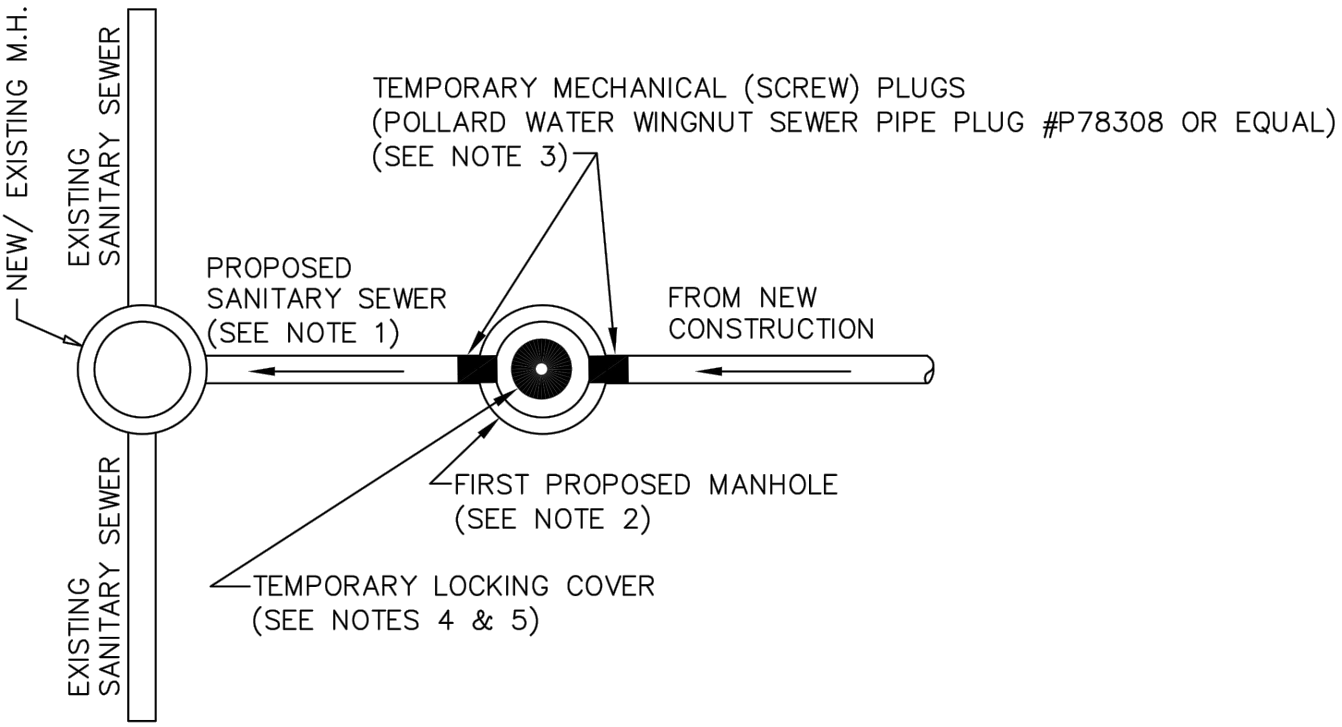


NOTES:

1. SERVICE LATERALS SHALL TERMINATE AT THE PROPERTY LINE AT A DEPTH OF THIRTY INCHES (30").
2. THE END OF EACH SERVICE CONNECTION SHALL BE MARKED WITH A 2" X 2" TREATED WOOD STAKE AND AN E.M.S. SANITARY SEWER MARKER.
3. EACH SERVICE CONNECTION SHALL BE PLUGGED WATERTIGHT WITH AN APPROVED CAP OR PLUG.
4. CUT OFF BELL END WHEN USING FERNCO COUPLING FOR V.C.P. (FOR EXISTING SERVICES ONLY).
5. FOR P.V.C. INSTALLATIONS, CONNECT TO EXISTING "BELL END" AND CONNECT OPPOSITE END WITH P.V.C. TO P.V.C. KNOCK ON SLEEVE.
6. SOLIDLY TAMP BACKFILL AT LEAST ONE FOOT ABOVE TOP OF PIPE. SERVICES UNDER PAVED AREAS SHALL BE BACKFILLED TO THE SAME SPECIFICATIONS AS SHOWN ON PAVEMENT REPLACEMENT DETAIL.
7. CONTRACTOR SHALL MARK ON A CLEAN SET OF PLANS FOR THE FINAL STATIONING OR DISTANCE AND DIRECTION FROM MANHOLE TO EACH SERVICE LATERAL AND GIVE TO ENGINEER FOR RECORD DRAWING PURPOSES.

CITY OF DAHLONEGA STANDARD DETAIL S12
CLEAN-OUT AT R/W

SCALE: NTS
DATE OF LAST REVISION: 03/22

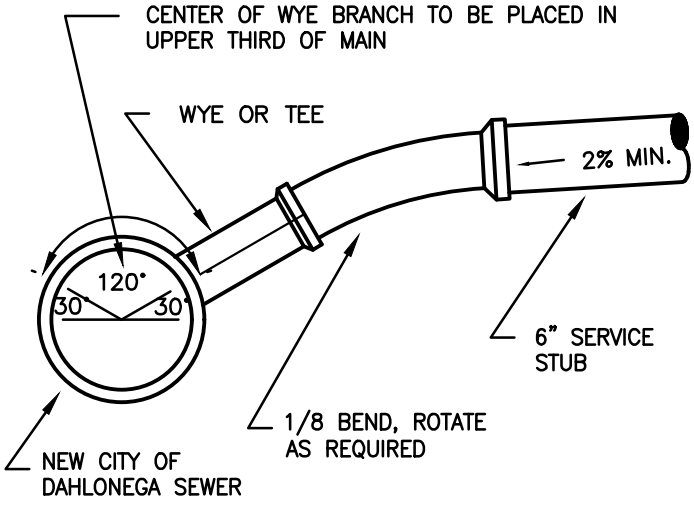


NOTE:

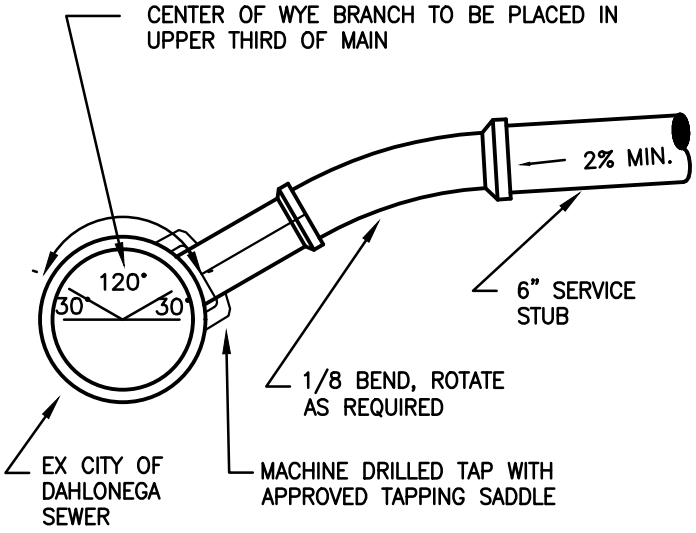
1. FIRST SECTION OF NEW SEWER LINE SHALL BE ISOLATED FROM THE REST OF THE PROPOSED SYSTEM.
2. THE FIRST MANHOLE OF THE PROPOSED SYSTEM SHALL BE USED TO FLUSH AND PUMP OUT THE PROPOSED SANITARY SEWER.
3. TEMPORARY MECHANICAL (SCREW) PLUGS TO BE INSTALLED AS PART OF NEW SEWER INSTALLATION. PLUGS TO BE TIED TO MANHOLE STEP WITH A CABLE AND PADLOCK TO PREVENT TAMPERING. PLUGS TO REMAIN IN PLACE UNTIL PASSING FINAL INSPECTION.
4. AFTER INSTALLATION OF NEW MANHOLE BY CONTRACTOR (INCLUDING INSTALLING TEMPORARY MECHANICAL PLUGS), CITY OF DAHLONEGA TO INSTALL LOCKING MANHOLE COVER. LOCKING MANHOLE COVER TO REMAIN IN PLACE UNTIL PASSING FINAL INSPECTION.
5. UPON PASSING FINAL INSPECTION, GCDWR WILL REMOVE LOCKING MANHOLE COVER AND INSTRUCT CONTRACTOR TO REMOVE TEMPORARY MECHANICAL PLUGS.

CITY OF DAHLONEGA STANDARD DETAIL S13
NEW SANITARY SEWER MAIN CONNECTION

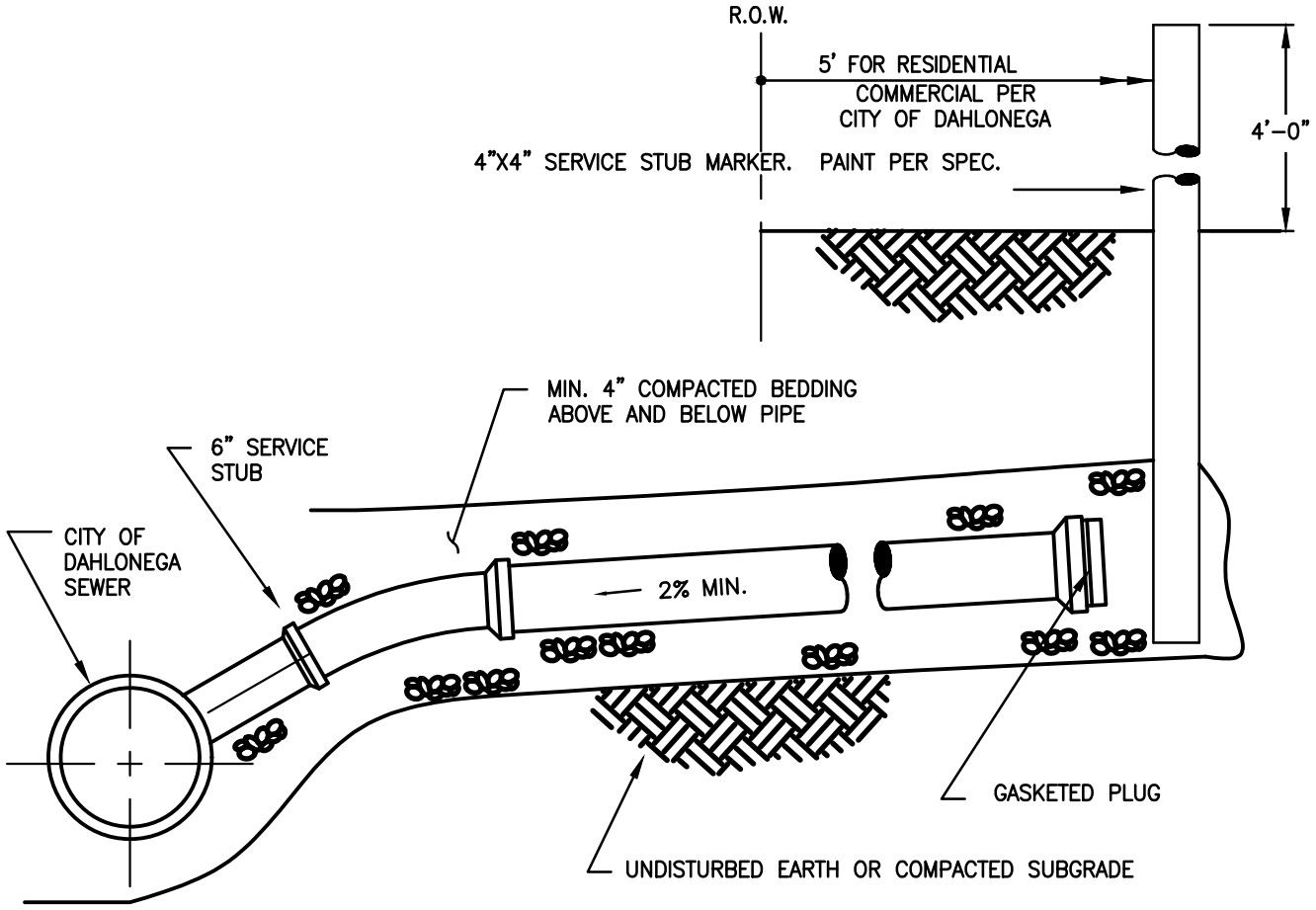
SCALE: NTS
DATE OF LAST REVISION: 03/22



6" SERVICE STUB ON NEW MAIN

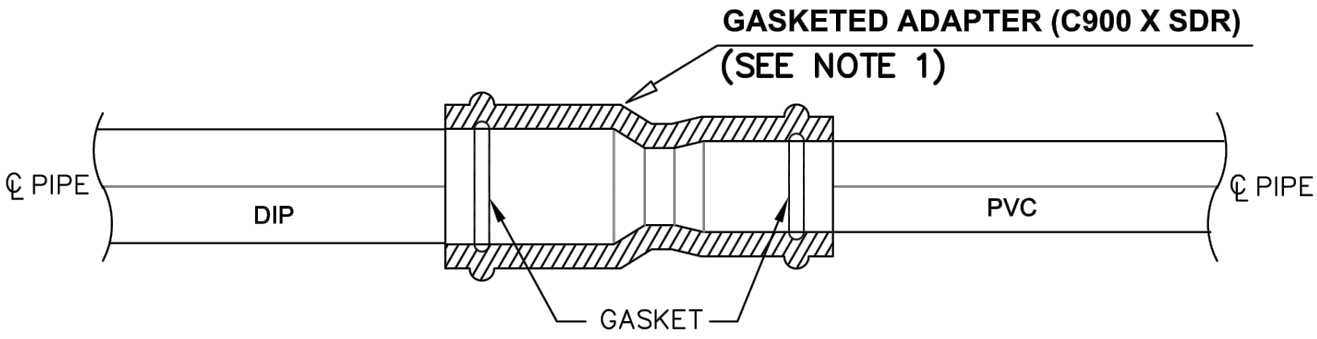


6" SERVICE STUB ON EXISTING MAIN



CITY OF DAHLONEGA STANDARD DETAIL S14
SEWER SERVICE STUB

SCALE: NTS
DATE OF LAST REVISION: 03/22



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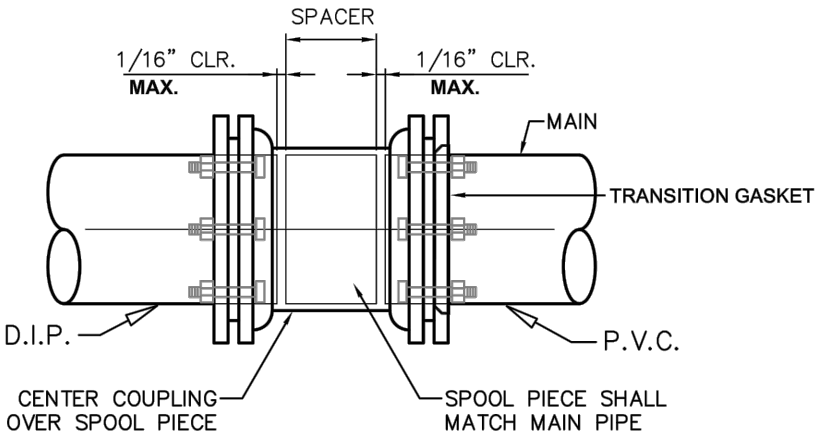


SOLID SLEEVE

NOTES:
ONE OF THE FOLLOWING TRANSITION METHODS SHALL BE UTILIZED WHEN TRANSITIONING FROM DUCTILE IRON TO PVC PIPE:

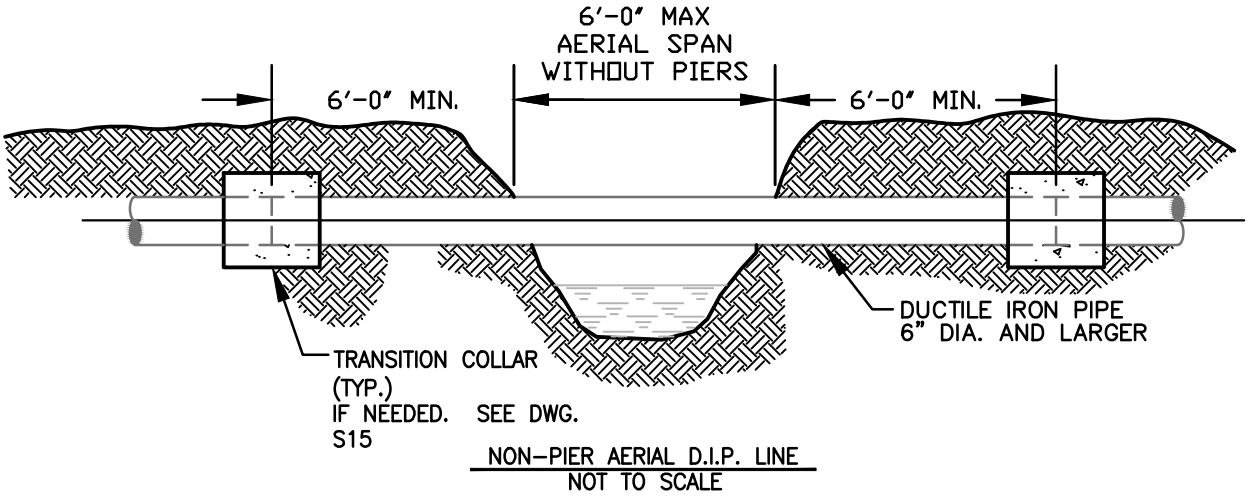
1. GASKETED ADAPTER SHALL BE TYPE C900 X SDR (HARCO OR EQUAL), AND MEET FOLLOWING STANDARDS:

   MATERIAL: ASTM 1784
   JOINTS: ASTM D3212
   GASKETS: F477
   FITTINGS: D3034 AND F1336

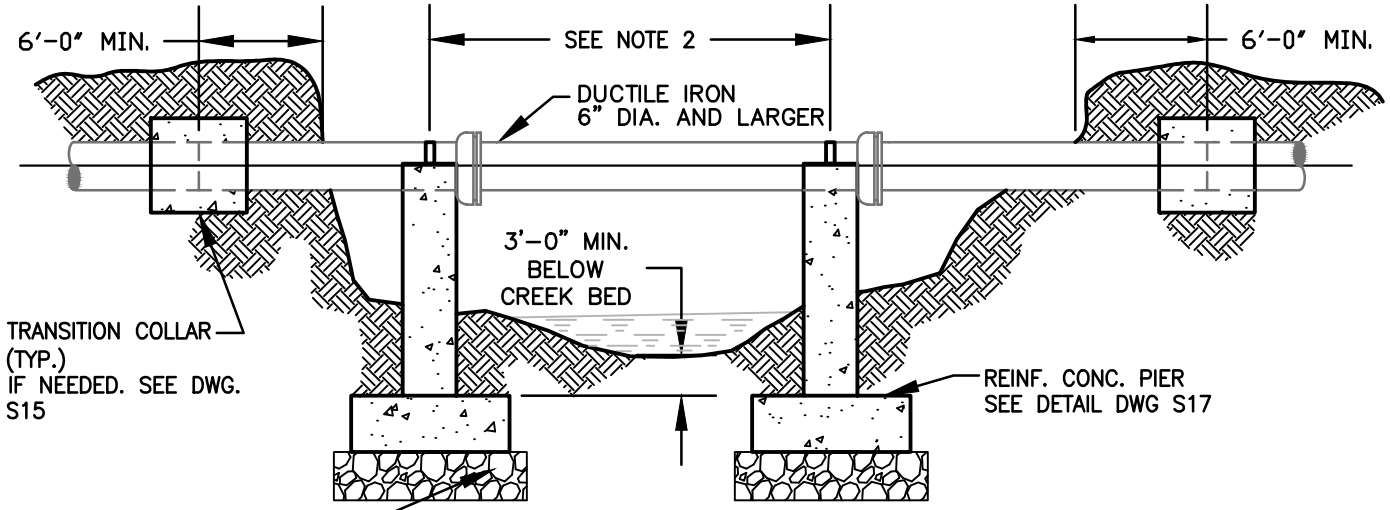
2. SOLID SLEEVE ADAPTER SHALL BE STEEL AND PROPERLY COATED BEFORE BACKFILL.

CITY OF DAHLONEGA STANDARD DETAIL S15
TRANSITION COLLAR

SCALE: NTS
DATE OF LAST REVISION: 03/22



NON–PIER AERIAL D.I.P. LINE
NOT TO SCALE



PIER AERIAL D.I.P. LINE
NOT TO SCALE

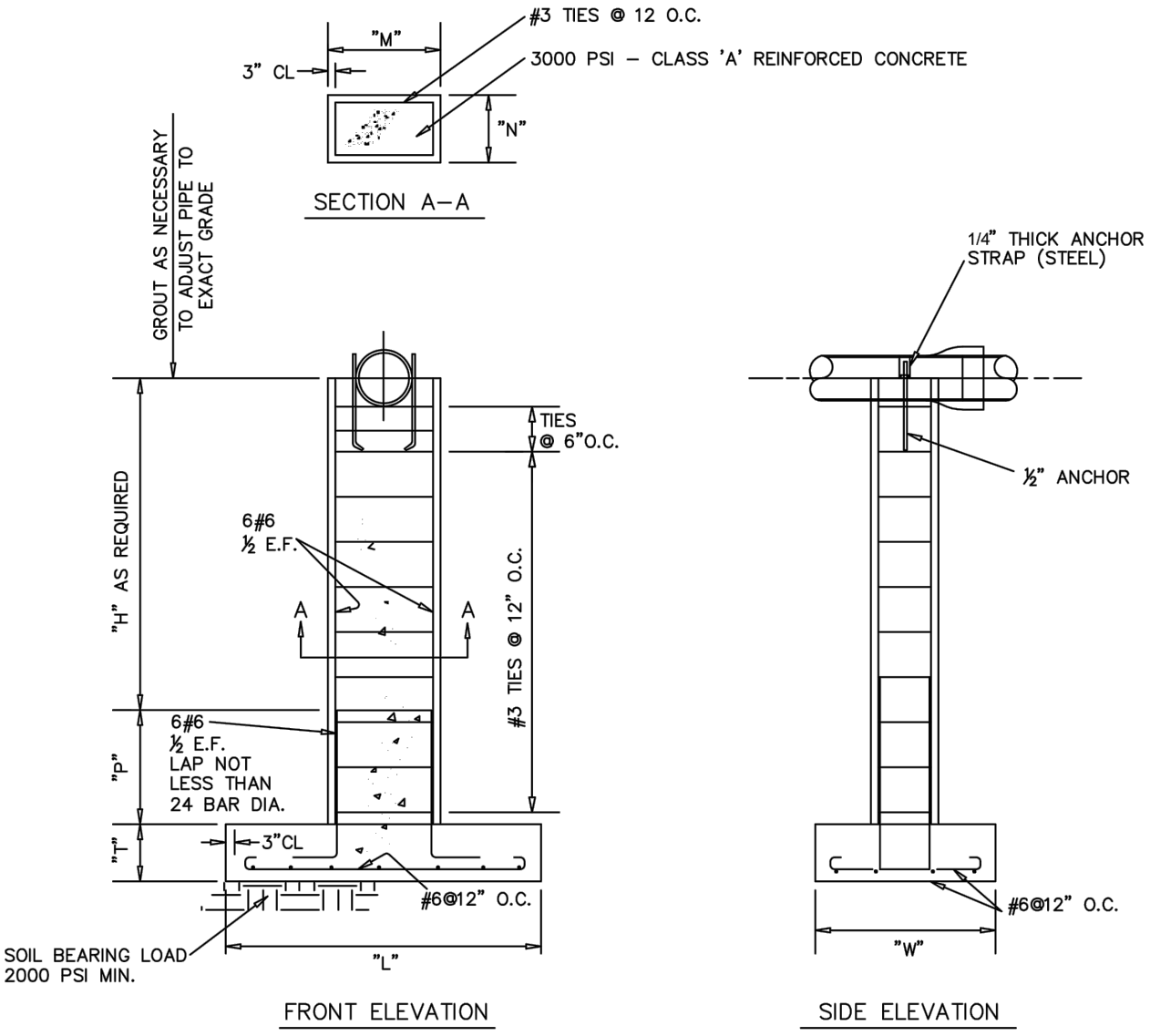
NOTES:

1. NO PIERS SHALL BE PLACED WITHIN NORMAL FLOW OF CREEK. FOOTINGS SHALL BE PLACED 3 FEET MINIMUM BELOW CREEK BED.
2. REINFORCED CONCRETE PIERS SHALL BE PLACED BEHIND BELL OF EACH JOINT OF DUCTILE IRON PIPE.
3. ALL PIER PLACEMENT SHALL BE APPROVED BY THE CITY.
4. IF PIER PLACEMENT FOR DUCTILE IRON PIPE CANNOT MEET THE ABOVE STIPULATIONS, STEEL PIPE SHALL BE USED.
5. ALL AERIAL CROSSINGS REQUIRE APPROVAL FROM THE CITY.

CITY OF DAHLONEGA STANDARD DETAIL S16
AERIAL DIP PIER CROSSING

SCALE: NTS
DATE OF LAST REVISION: 03/22

"H"=	0–5	5–10	10–15	15–20
"W"=	3	4	5	6
"L"=	4	5	7	10
"T"=	1	1	1.5	2
"N"=	1	1	1.5	1.5
"M"=	2	3	4	5
"P"=	2	3	4	5



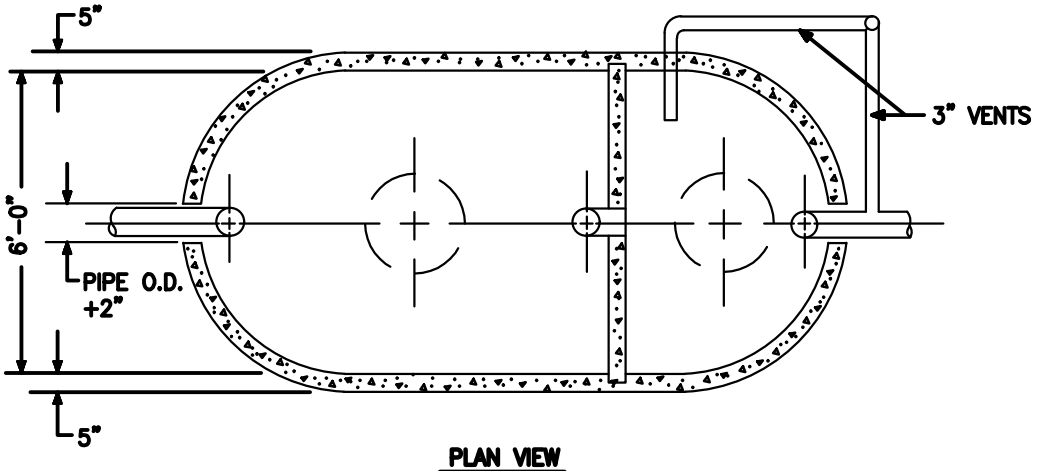
NOTES:

1. ABOVE DETAIL IS THE MINIMUM ACCEPTABLE. SITE CONDITIONS MAY DICTATE MORE STRINGENT REQUIREMENTS.
2. ALTERNATE DESIGNS MAY BE SUBMITTED.

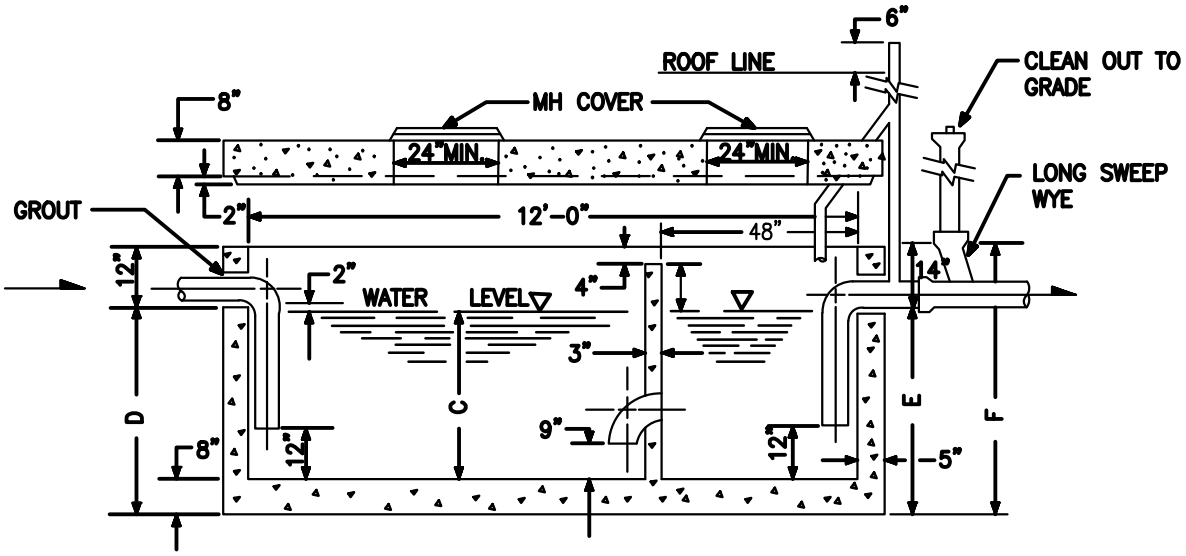
CITY OF DAHLONEGA STANDARD DETAIL S17
CONCRETE PIER AND FOOTING

SCALE: NTS

DATE OF LAST REVISION: 03/22



PLAN VIEW



SECTION

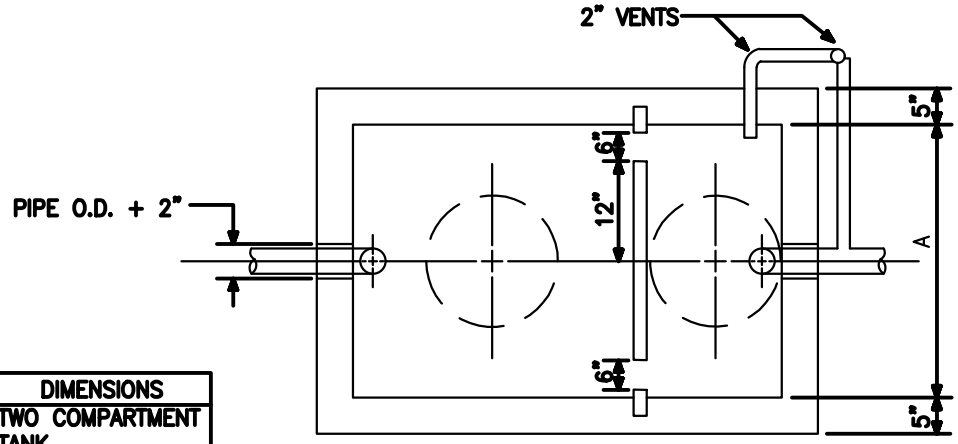
NOTES:

1. SECONDARY COMPARTMENT HAS VOLUME EQUAL TO 1/3 OF TOTAL CAPACITY.
2. PIPE AND FITTINGS SHALL BE CAST IRON MIN. 3" DIA.
3. WALLS AND BOTTOM REINFORCED THROUGHOUT WITH MIN. 2 X 16 6/10 REMESH
4. COVERS SHALL BE REINFORCED LONGITUDINALLY WITH NO. 6 REBAR ON 6" CENTERS, NO. 4 REBAR ON 6" CENTERS WIDTHWISE, AND NO. 8 REBAR DIAGONALLY AROUND ACCESS HOLES.
5. CLEAN OUT SHALL BE AN IRON BODY FERRULE WITH BRASS SCREW PLUG.
6. VENT PIPE (WHEN REQ'D) SHALL BE CAST IRON TO A POINT 6" ABOVE THE GROUND LEVEL.
7. MANHOLE RING AND COVER SHALL BE CITY STANDARD, H-20 RATED.
8. NO BOLT DOWN COVERS ALLOWED WITHOUT PERMISSION FROM THE CITY.
9. GREASE CAPACITY RATED FOR LARGE COMPARTMENT ONLY.
10. CHECK WITH SUPPLIER FOR EXACT DIMENSIONS.
11. GREASE INTERCEPTOR REQUIRED FOR RESTAURANTS, KITCHENS & CAFETERIAS.

Water Capacity (Approx. Gallons)	Grease Capacity (Approx. Cubic Ft.)	DIMENSIONS INCHES			
		C	D	E	F
1565	100	40	50	48	62
1800	121	46	56	54	68
2035	143	52	62	60	74
2505	186	64	74	72	86
2975	229	76	86	84	98
3210	250	82	92	90	104
3445	271	88	98	96	110

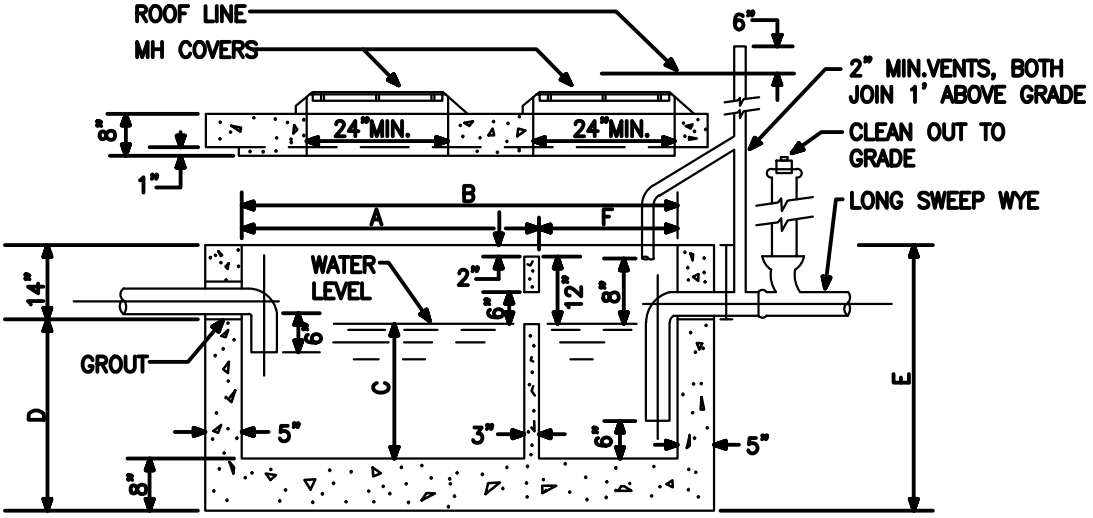
CITY OF DAHLONEGA STANDARD DETAIL S18
GREASE INTERCEPTOR

SCALE: NTS
DATE OF LAST REVISION: 03/22



PLAN VIEW

WATER CAPACITY APPROX. GALLONS	DIMENSIONS TWO COMPARTMENT TANK INCHES					
	A	B	C	D	E	F
320	48	72	22	30	44	24
500	48	72	36	46	44	24
780	48	96	40	48	62	32
1060	72	102	34	42	56	34

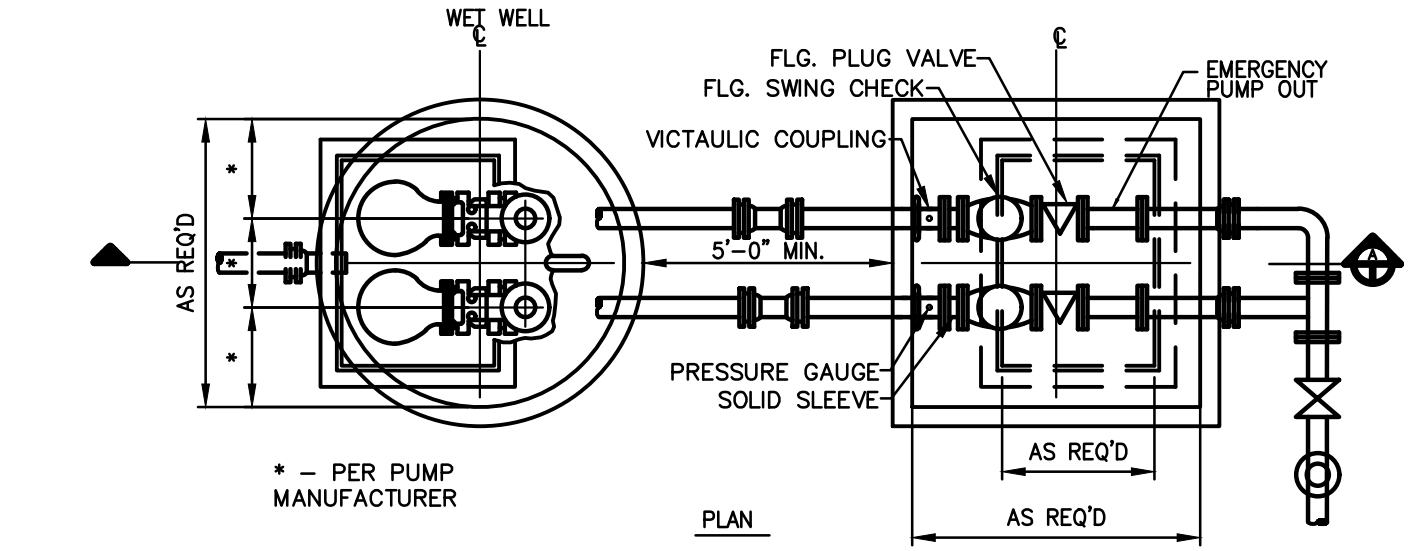


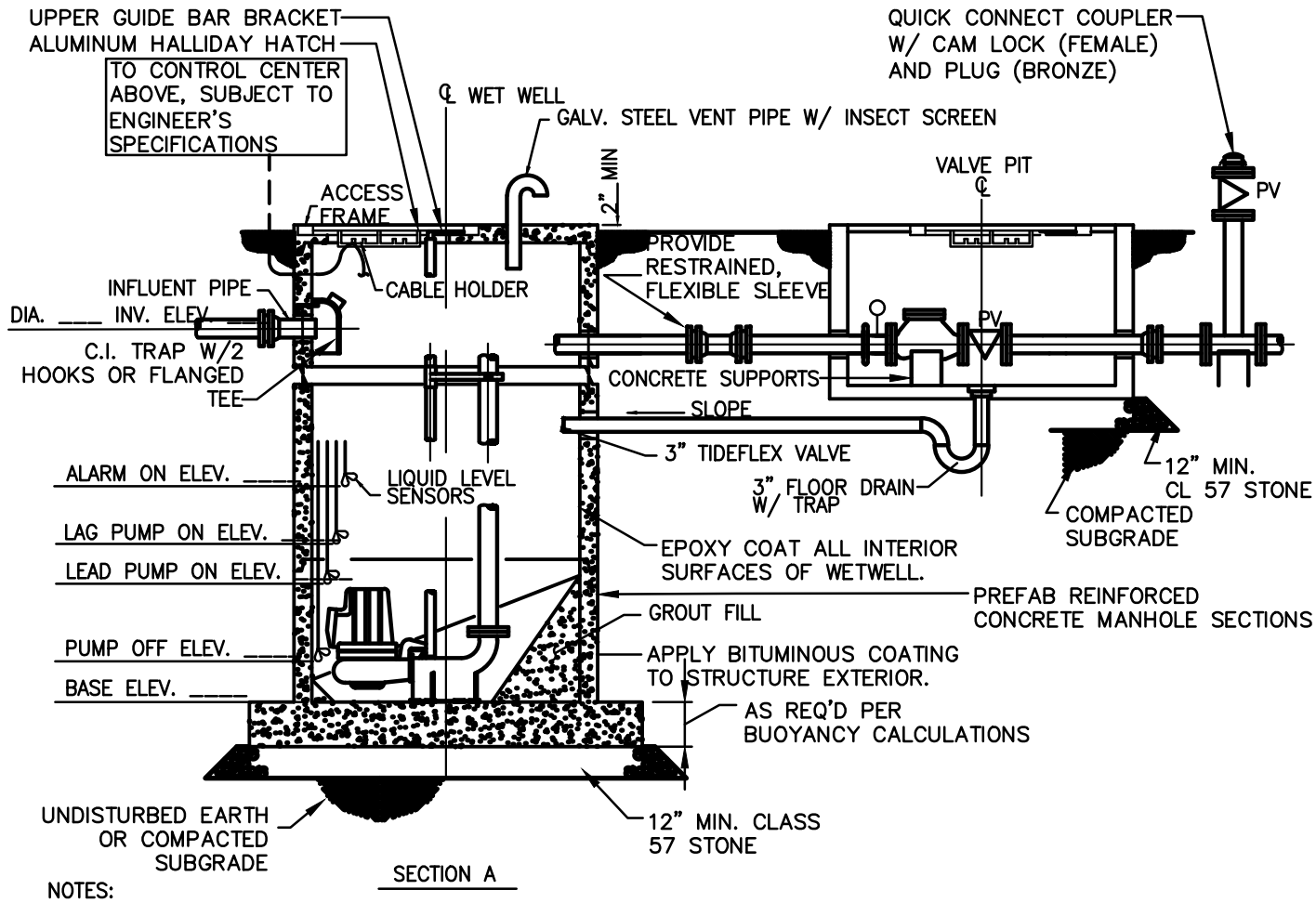
SECTION

NOTES:
1. PIPE AND FITTINGS SHALL BE CAST OR DUCTILE IRON, MINIMUM 3" DIAMETER.
2. SMALL COMPARTMENT HAS 1/3 TOTAL CAPACITY.
3. WALLS AND BOTTOM REINFORCED THROUGHOUT WITH 2 x 6 6/10 REMESH.
4. COVERS SHALL BE REINFORCED LONGITUDINALLY WITH NO.6 REBAR ON 6" CENTERS, NO.4 REBAR ON 6" CENTERS WIDTHWISE, AND NO.8 REBAR DIAGONALLY AROUND ACCESS HOLES.
5. CLEAN OUT SHALL BE AN IRON BODY FERRULE WITH BRASS SCREW PLUG.
6. VENT PIPE SHALL BE DUCTILE IRON TO A POINT 6" ABOVE GROUND.
7. MANHOLE RING AND COVER SHALL BE CITY STANDARD.
8. CHECK WITH SUPPLIER FOR EXACT DIMENSIONS.
9. NO BOLT DOWN COVERS ALLOWED WITHOUT APPROVAL FROM THE CITY.
10. FOR CAPACITIES OTHER THAN SHOWN SEE THE CITY ENGINEER.

CITY OF DAHLONEGA STANDARD DETAIL S19
SAND AND OIL INTERCEPTOR

SCALE: NTS
DATE OF LAST REVISION: 03/22





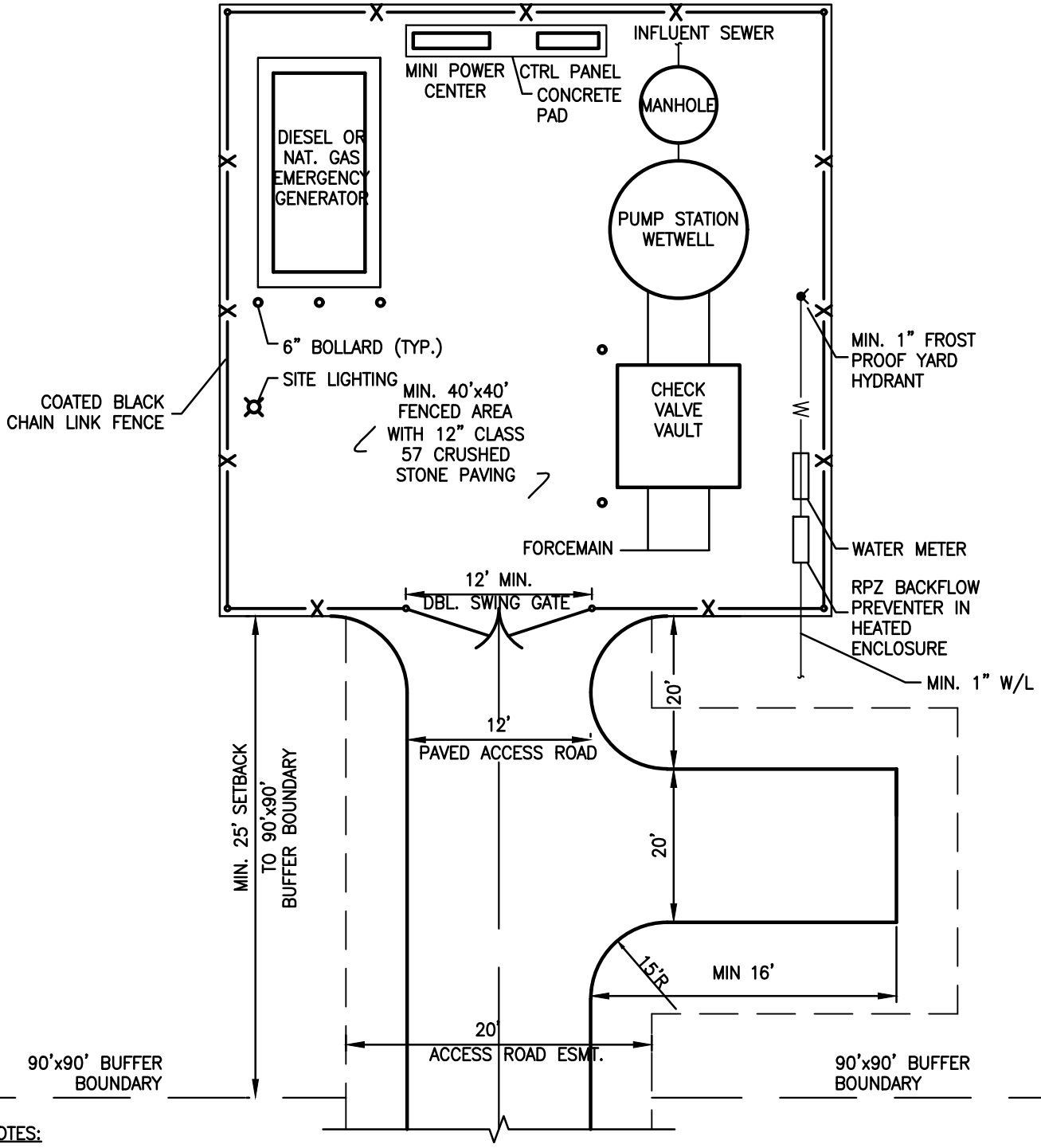
NOTES:

1. RESTRAIN ALL PIPE AND FITTINGS SHOWN THIS SHEET.
2. ALL EXPOSED PIPE & FITTINGS ARE FLANGED OR GROOVED.
3. ALL BURIED FITTINGS ARE RJ OR MJ WITH MEGALUGS.

CITY OF DAHLONEGA STANDARD DETAIL S20
SUBMERSIBLE SEWAGE PUMP STATION

SCALE: NTS

DATE OF LAST REVISION: 03/22

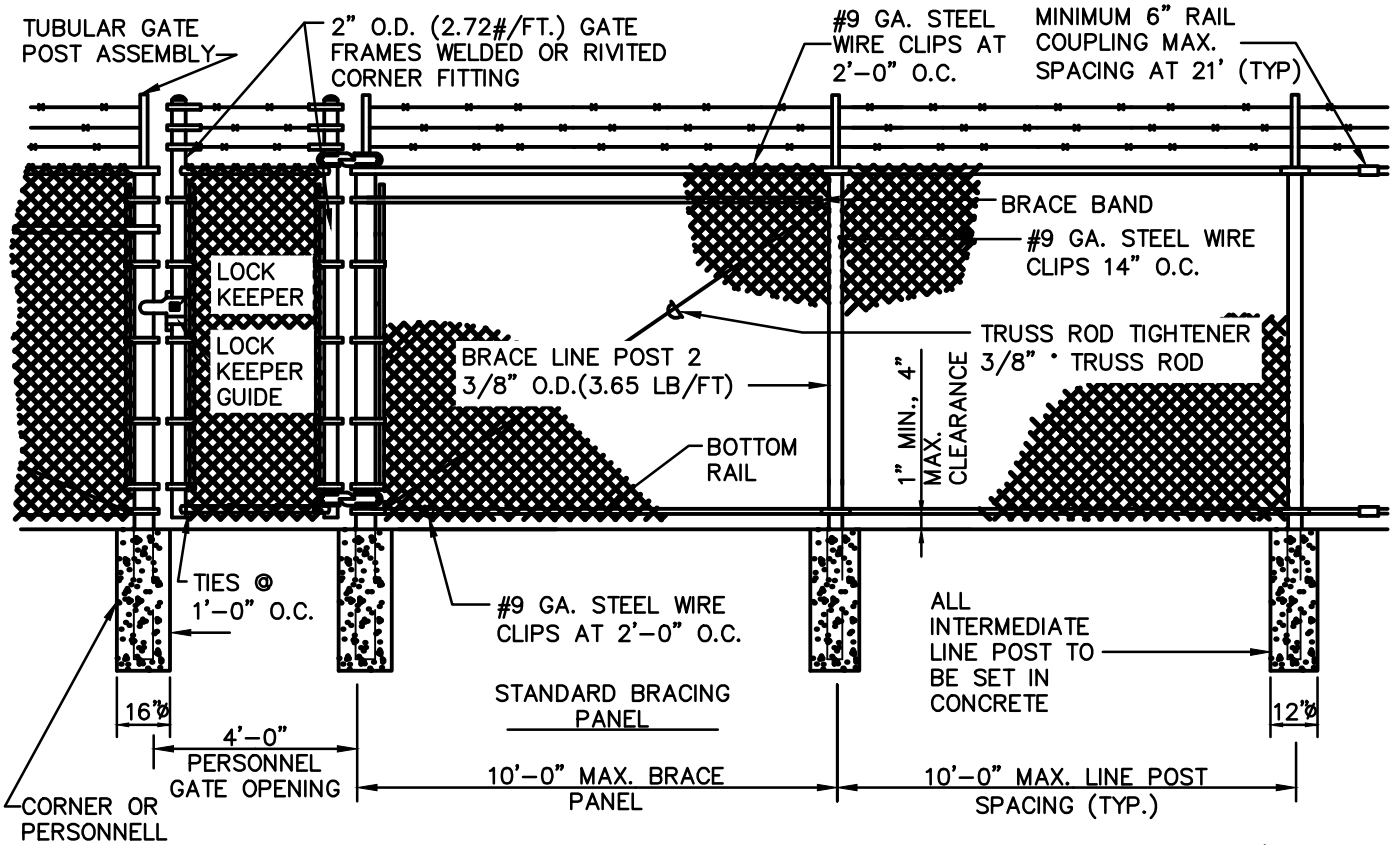


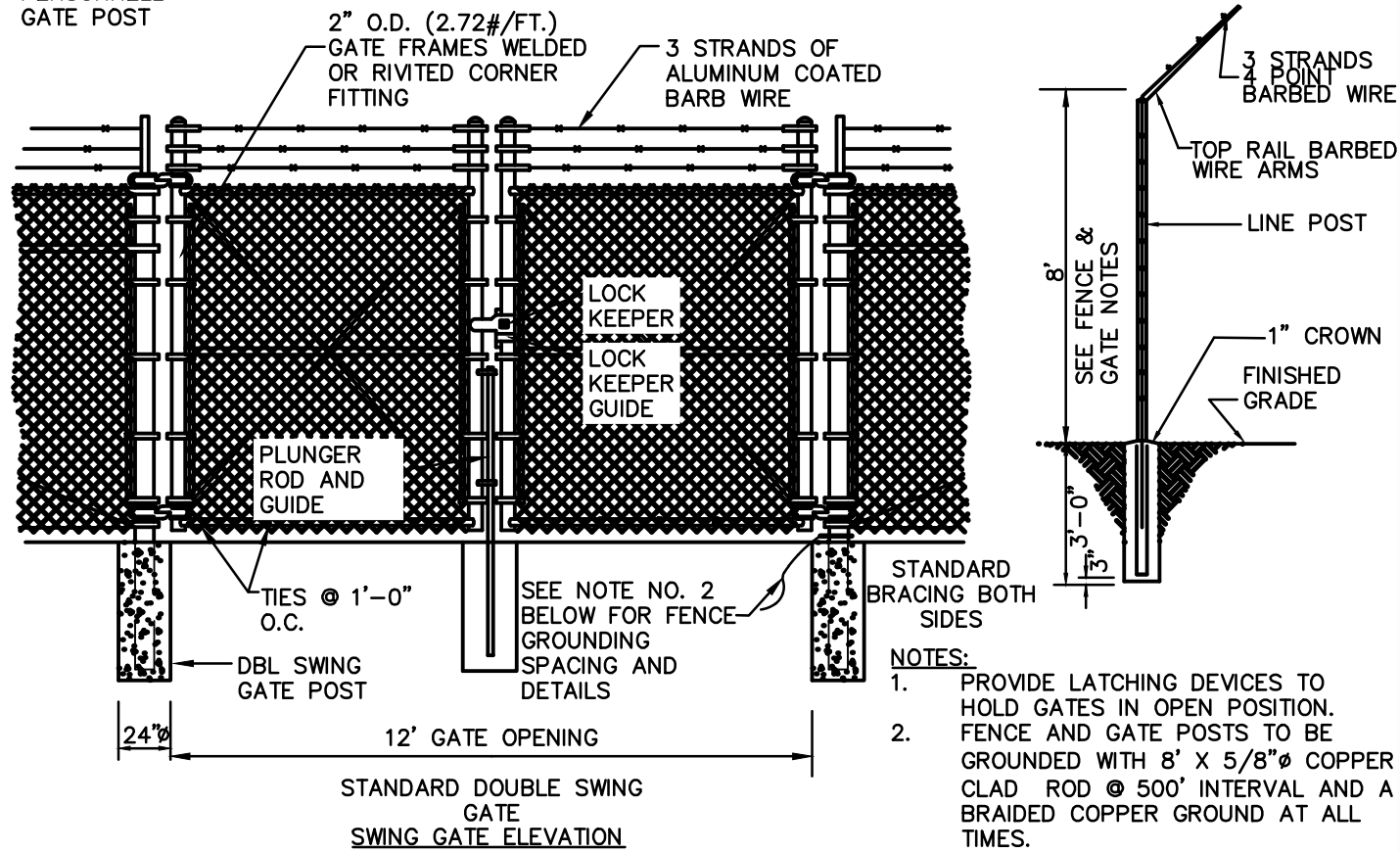
NOTES:

1. LAYOUT SHOWN IS FOR REFERENCE ONLY, DO NOT SCALE. DESIGN ENGINEER TO VERIFY FINAL LAYOUT PER SITE CONDITIONS.
2. REFERENCE DETAIL S20 FOR ADD'L.
3. PAVED ACCESS SHALL CONSIST OF 8" BASE COURSE, 3" BINDER COURSE AND 1.5" SURFACE COURSE.
4. DEVELOPER IS RESPONSIBLE FOR INSTALLING WATER TO PUMP STATION.

CITY OF DAHLONEGA STANDARD DETAIL S21
SUBMERSIBLE PUMP STATION SITE LAYOUT

SCALE: NTS
DATE OF LAST REVISION: 03/22



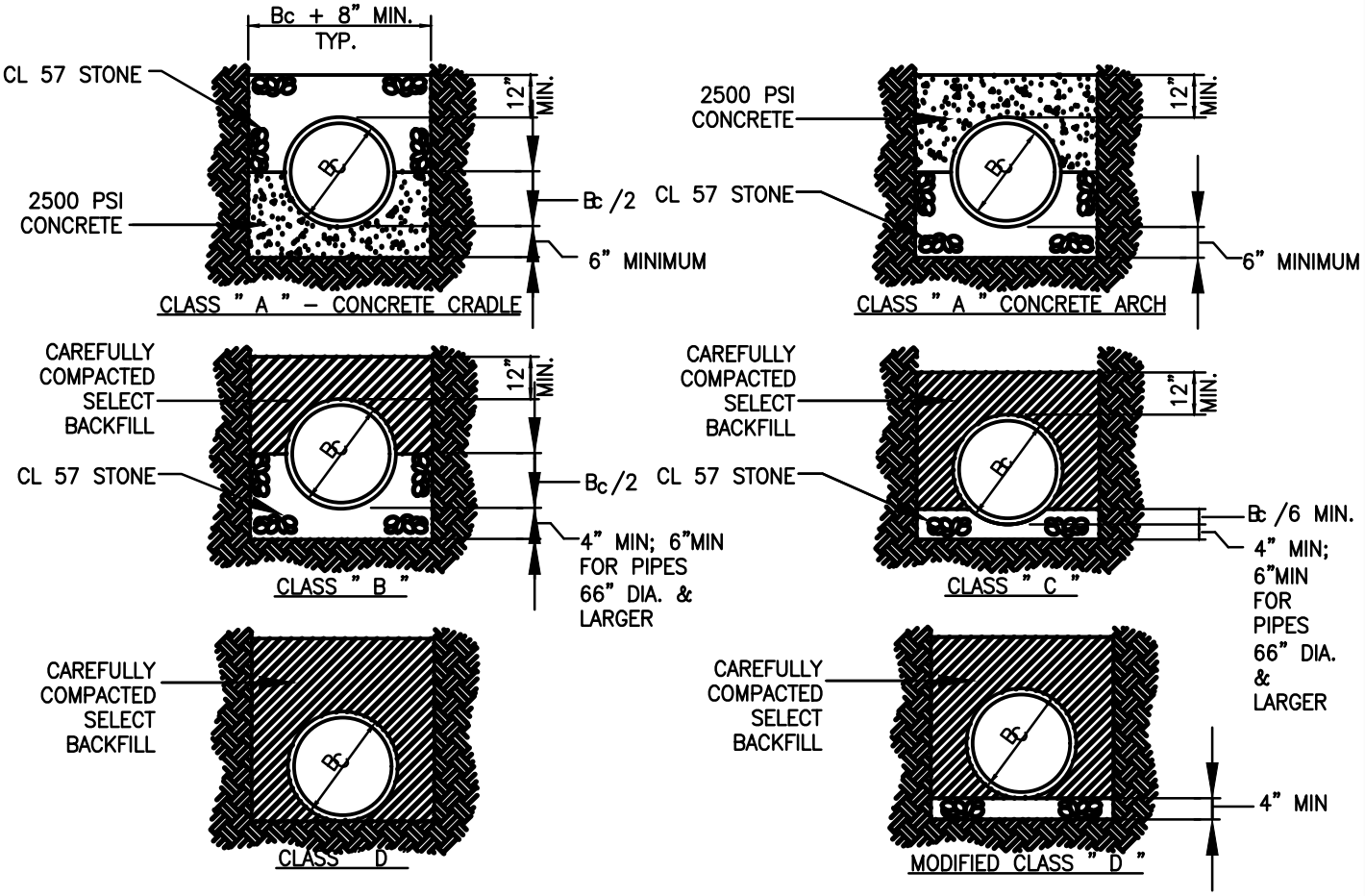


NOTES:

1. PROVIDE LATCHING DEVICES TO HOLD GATES IN OPEN POSITION.
2. FENCE AND GATE POSTS TO BE GROUNDED WITH 8' X 5/8"ø COPPER CLAD ROD @ 500' INTERVAL AND A BRAIDED COPPER GROUND AT ALL TIMES.

CITY OF DAHLONEGA STANDARD DETAIL S22
SITE FENCING

SCALE: NTS
DATE OF LAST REVISION: 03/22

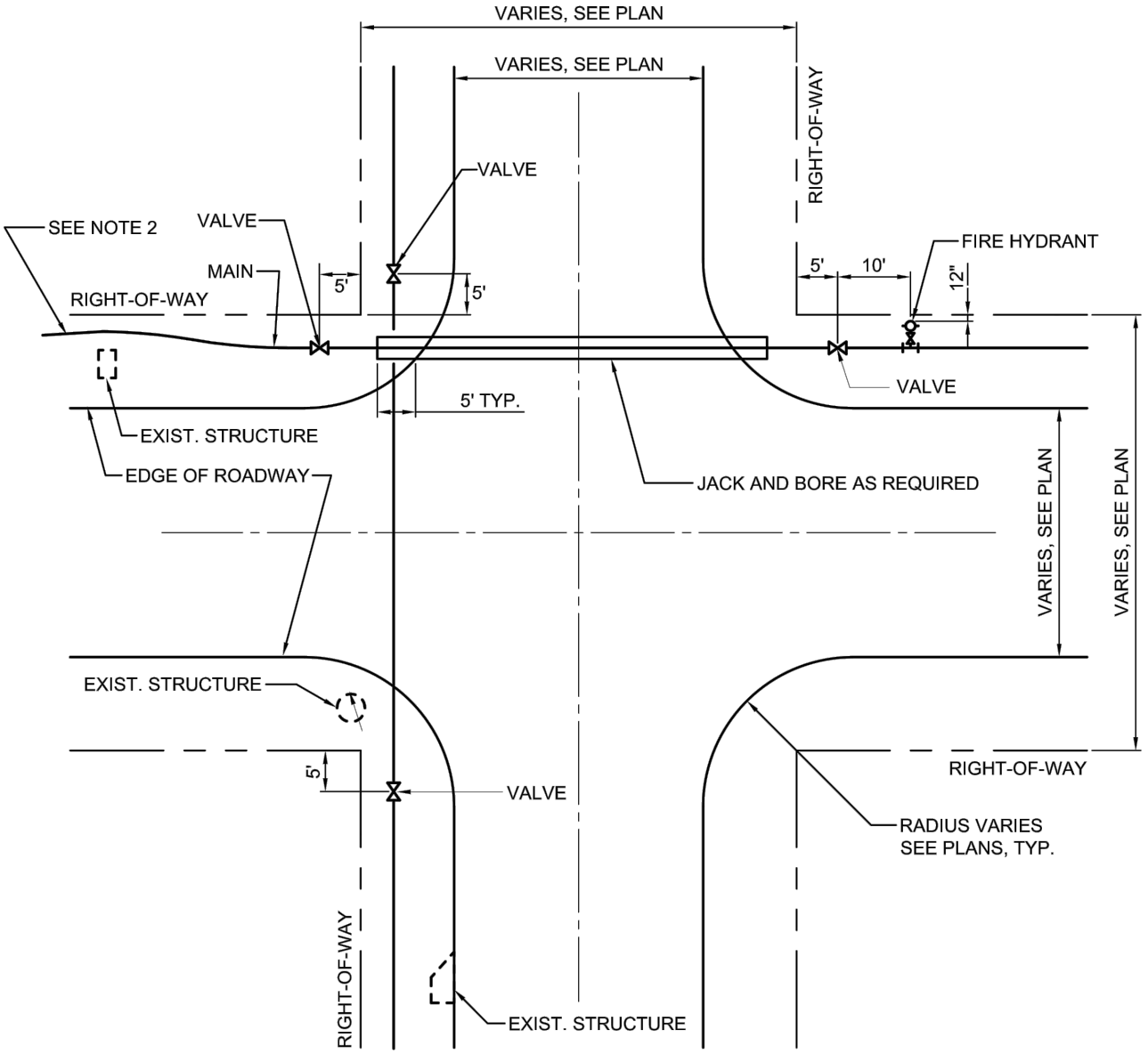


NOTES:

1. COMPACTION: BACKFILL SHALL BE BUILT UP IN LAYERS AND EACH LAYER SHALL BE THOROUGHLY COMPACTED BEFORE BEGINNING ANOTHER LAYER. LAYERS SHALL BE NO MORE THAN 6" IN DEPTH. PUDDLING WILL NOT BE PERMITTED, FROZEN OR WET MATERIAL SHALL NOT BE PLACED IN TRENCHES.
2. COMPACTION STANDARDS: ALL BACKFILL MATERIALS USED SHALL CONTAIN A SUFFICIENT AMOUNT OF MOISTURE FOR PROPER COMPACTION AND THESE MATERIALS SHALL BE COMPACTED AT NOT LESS THAN 95% OF THEIR OPTIMUM CLASSIFICATION AS DETERMINED BY THE MODIFIED PROCTOR TEST, ASTM D698.
3. COMPACTION TESTS: COMPACTION TESTS SHALL BE REQUIRED IN EXISTING OR PROPOSED STREETS, SIDEWALKS, DRIVES AND OTHER EXISTING OR PROPOSED PAVED AREAS AT VARYING DEPTHS AND AT INTERVALS AS DETERMINED BY THE CITY WITH A MINIMUM OF ONE TEST ON EACH JOB AND A MAXIMUM OF ONE REQUIRED TEST FOR EACH 400' OR LESS OF UTILITY MAIN CONSTRUCTION, UNLESS SOIL CONDITIONS OR CONSTRUCTION PRACTICES, IN THE OPINION OF THE CITY, WARRANT THE NEED FOR ADDITIONAL TESTS.
4. FOR EXCAVATION IN POOR SOIL OR ROCK: REMOVE UNSUITABLE MATERIAL WIDTH AND DEPTH DIRECTED BEFORE PIPE IS LAID. THE SUBGRADE SHALL BE BACKFILLED WITH AN APPROVED MATERIAL IN 6" LAYERS. EACH LAYER SHALL BE THOROUGHLY TAMPED TO 95% COMPACTION.
5. NO BOULDERS OR LOOSE ROCKS PERMITTED IN THE BACKFILL FROM BOTTOM OF PIPE TRENCH TO 2'–0" ABOVE PIPE.
6. FOR LOADING FACTORS LESS THAN 1.5 WHERE SUITABLE, UNDISTURBED SOIL IS PRESENT, USE CLASS "D" BEDDING. USE CLASS "C" BEDDING IF THE PIPE WILL BE SUBJECTED TO A LOADING FACTOR LESS THAN 1.5 AND IF OVEREXCAVATION OCCURS DUE TO ROCK AND/OR UNSUITABLE MATERIAL BEING ENCOUNTERED. USE CLASS "B" BEDDING FOR PIPES SUBJECTED TO A LOADING FACTOR GREATER THAN 1.5.

CITY OF DAHLONEGA STANDARD DETAIL W1
PIPE BEDDING DETAILS

SCALE: NTS
DATE OF LAST REVISION: 03/22



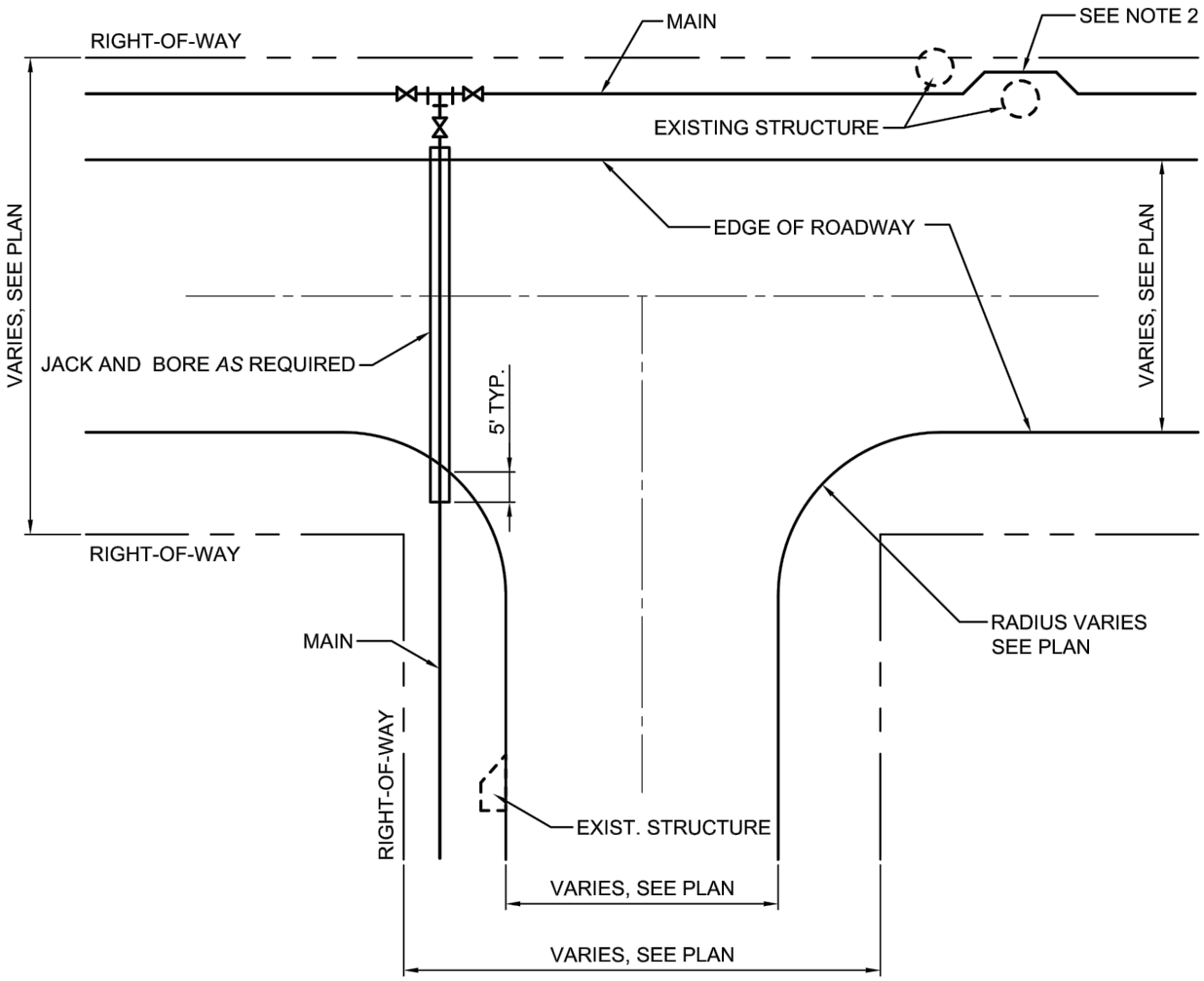
PLAN

NOTE:

1. DEPTH OF COVER OVER WATER MAINS SHALL BE 4'. (SEE DETAIL G2).
2. WHEN GOING AROUND STRUCTURES, ROUTE WATER MAIN AROUND STRUCTURES BY PIPE JOINT DEFLECTION, AND WHERE NECESSARY, INSTALL 45° BENDS OR LESS.
3. VALVES SHALL BE MARKED IN THE CURB WITH A SAW CUT "V" AND PAINT.

CITY OF DAHLONEGA STANDARD DETAIL W2
TYPICAL WATER MAIN AT INTERSECTION

SCALE: NTS
DATE OF LAST REVISION: 03/22

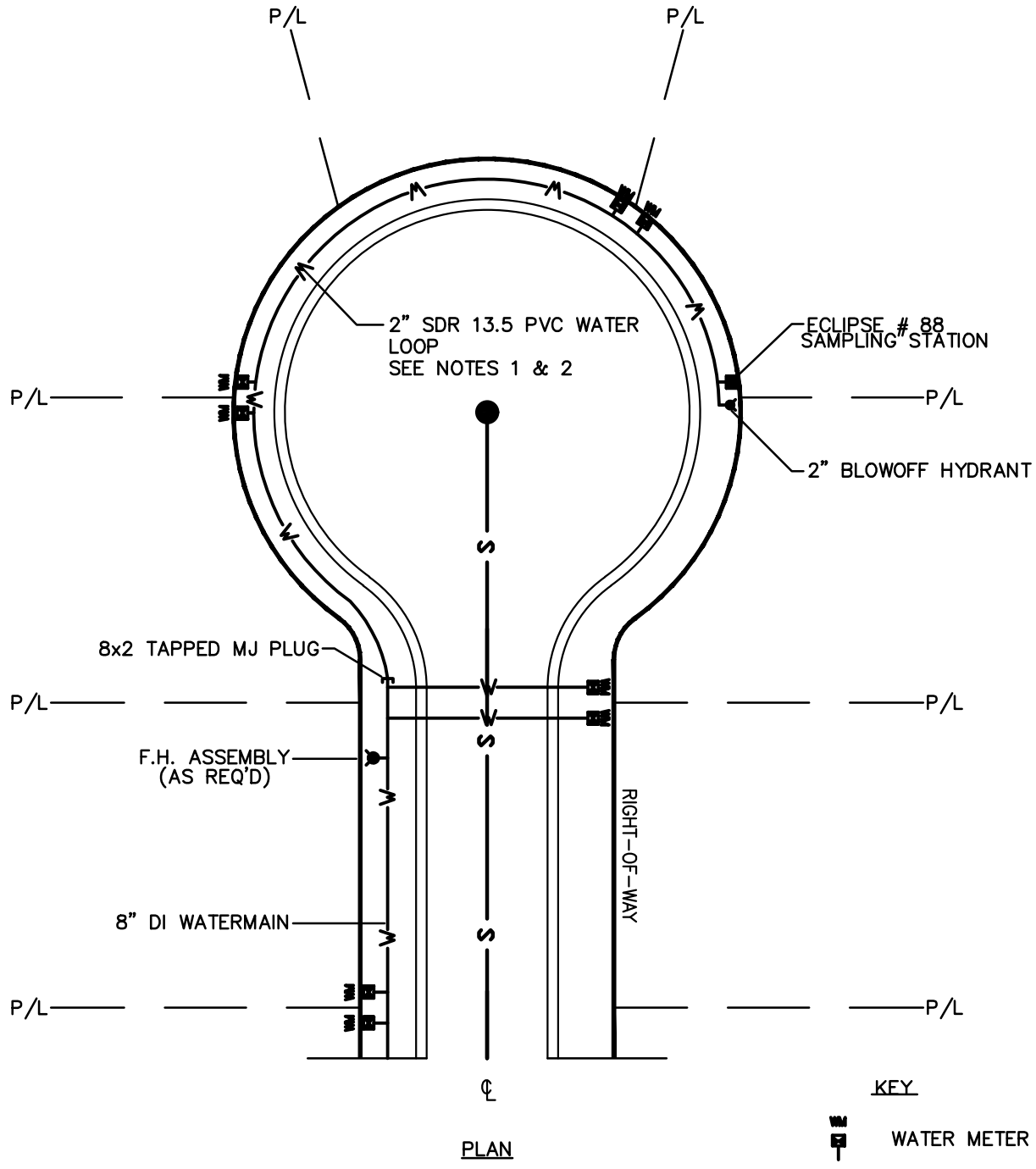


PLAN

NOTE:
1. DEPTH OF COVER OVER WATER MAINS SHALL BE 4'. (SEE DETAIL G2).
2. WHEN GOING AROUND STRUCTURES, ROUTE WATER MAIN AROUND STRUCTURES BY PIPE DEFLECTION, AND WHERE NECESSARY, INSTALL 45° OR LESS BENDS.

CITY OF DAHLONEGA STANDARD DETAIL W3
TYPICAL BRANCH CONNECTION AT INTERSECTION

SCALE: NTS
DATE OF LAST REVISION: 03/22



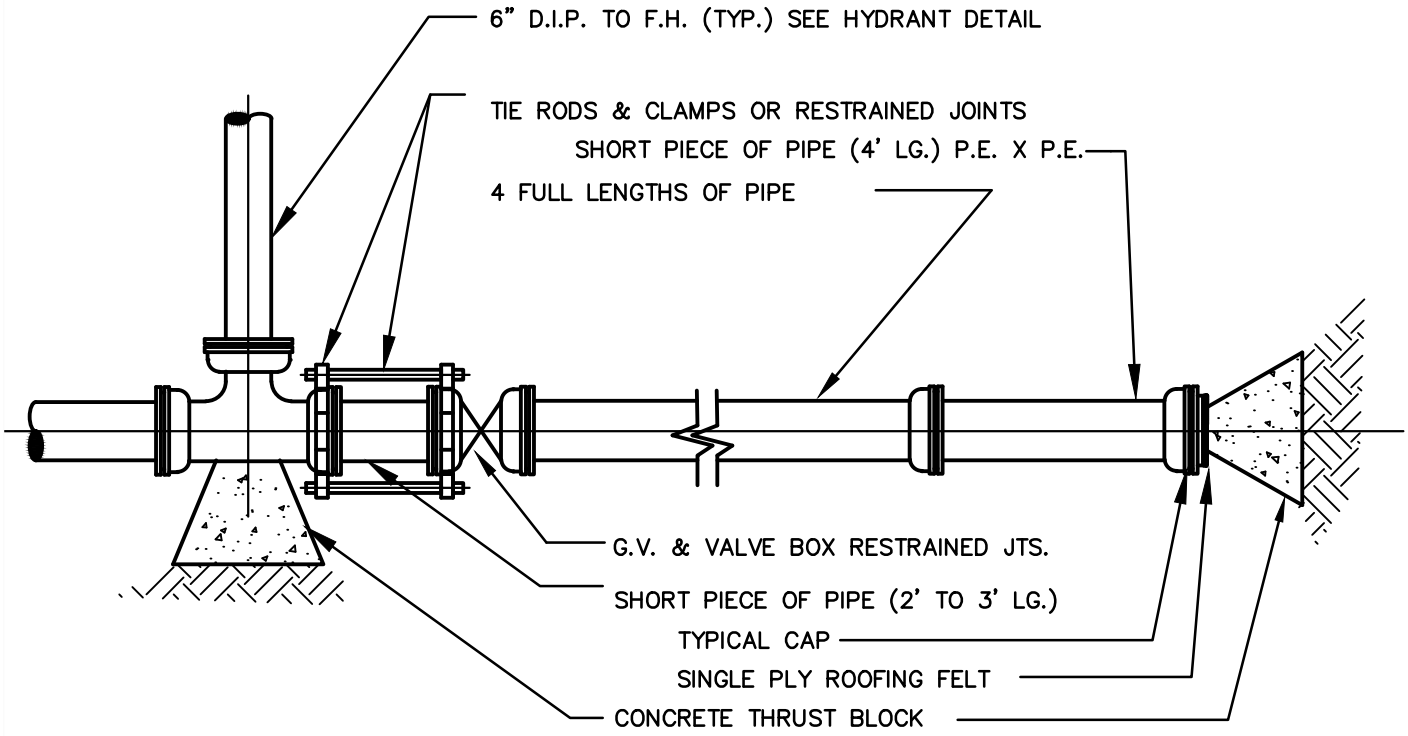
NOTES:

1. 2" PVC PIPE TO BE NSF APPROVED FOR POTABLE WATER, ASTM-D 2241 SDR 13.5.
2. 2" PVC FITTINGS TO BE RUBBER GASKET TYPE, RESTRAINED AS REQ'D. SOLVENT WELD FITTINGS ARE NOT ACCEPTABLE.
3. LOT TAPS SHALL OCCUR BEFORE WATER SAMPLER.
4. THIS DETAIL IS NOT APPLICABLE WHERE LOOPING OR FUTURE CONTINUATION OF MAIN IS REQUIRED.

CITY OF DAHLONEGA STANDARD DETAIL W4
WATERLINE LOCATION IN CUL DE SAC

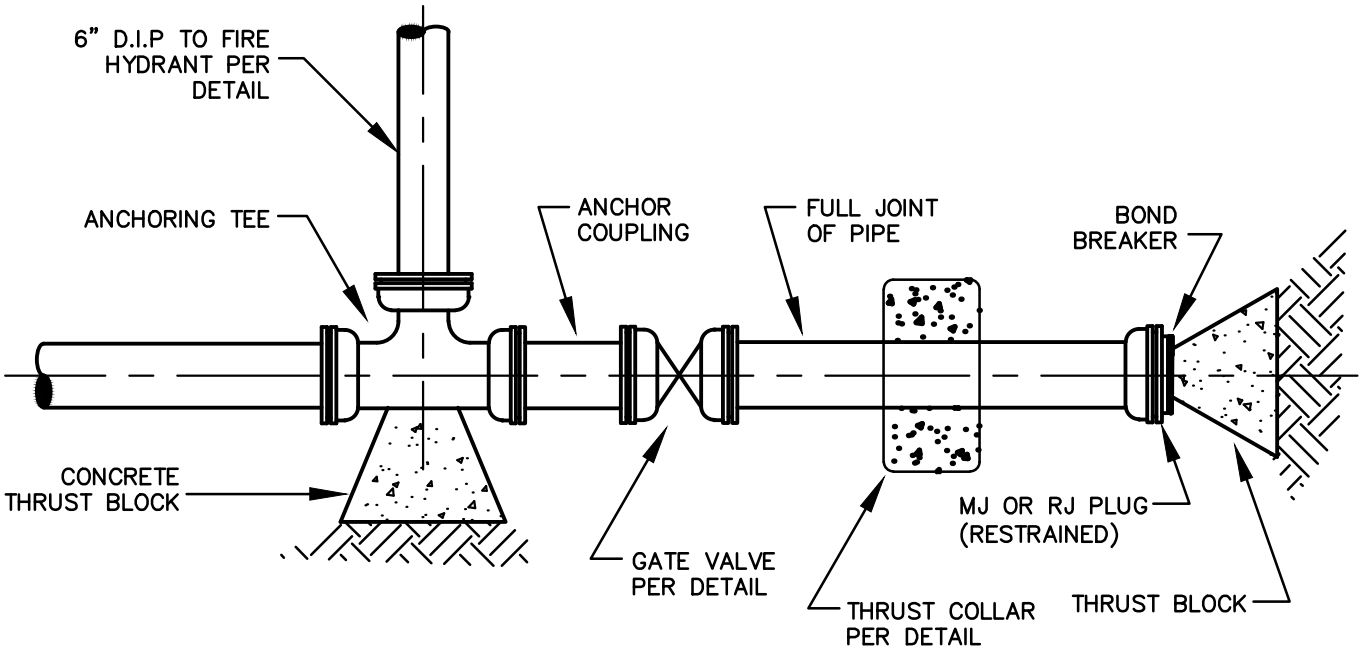
SCALE: NTS
DATE OF LAST REVISION: 03/22

R:\2047-0001 Dahlonega-Standards & Specifications\3 ENGINEERING\Drawings\W4 - Waterline Location in Cul de Sac Detail.DWG Fri, 03/17/23 3:10 PM



CITY OF DAHLONEGA STANDARD DETAIL W5
TYPICAL DEAD END STREET TERMINATION

SCALE: NTS
DATE OF LAST REVISION: 03/22



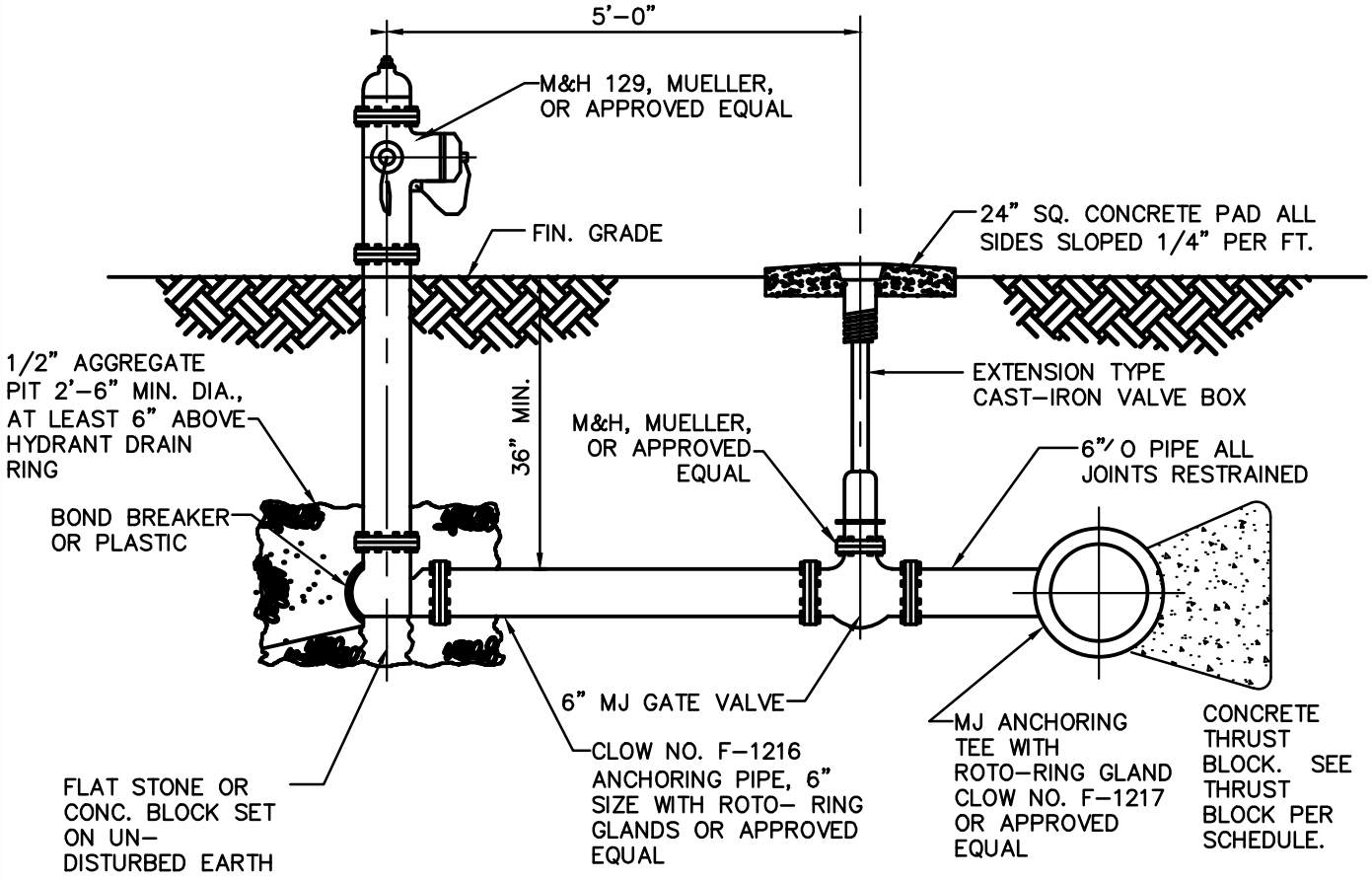
PLAN

NOTES:

1. RESTRAIN ALL PIPE & FITTINGS SHOWN THIS SHEET.
2. WRAP END OF LINE PIPE BELL IN POLYETHYLENE PRIOR TO POURING END OF LINE THRUST BLOCK.

CITY OF DAHLONEGA STANDARD DETAIL W6
STUB & PLUG FOR FUTURE CONNECTION

SCALE: NTS
DATE OF LAST REVISION: 03/22



NOTE:

1. ANY ALTERNATIVE OF THIS METHOD WILL NEED APPROVAL BY THE CITY PRIOR TO CONSTRUCTION
2. STEEL RODS USED FOR RESTRAINT WHEN HYDRANT IS FAR FROM THE VALVE WILL BE INSTALLED IN SPECIAL CASES AND BY APPROVAL ONLY.
3. RESTRAINING MECHANISMS FOR PUSH–ON OR MECHANICAL JOINTS WILL BE USED INSTEAD OF CONCRETE THRUST BLOCKING (AS APPROVED BY THE CITY). RESTRAINING MECHANISMS INCLUDE ANCHOR COUPLING, MEGALUG UNIVERSAL RESTRAINT, OR EQUAL.
   A) THE BOWL OF EACH HYDRANT SHALL BE ANCHORED FROM MAIN TO AUX. VALVE THEN VALVE TO HYDRANT.
   B) ALL FITTINGS SHALL BE PROVIDED WITH SUITABLE RESTRAINED JOINTS.

CITY OF DAHLONEGA STANDARD DETAIL W7
TYPICAL FIRE HYDRANT ASSEMBLY

SCALE: NTS
DATE OF LAST REVISION: 03/22

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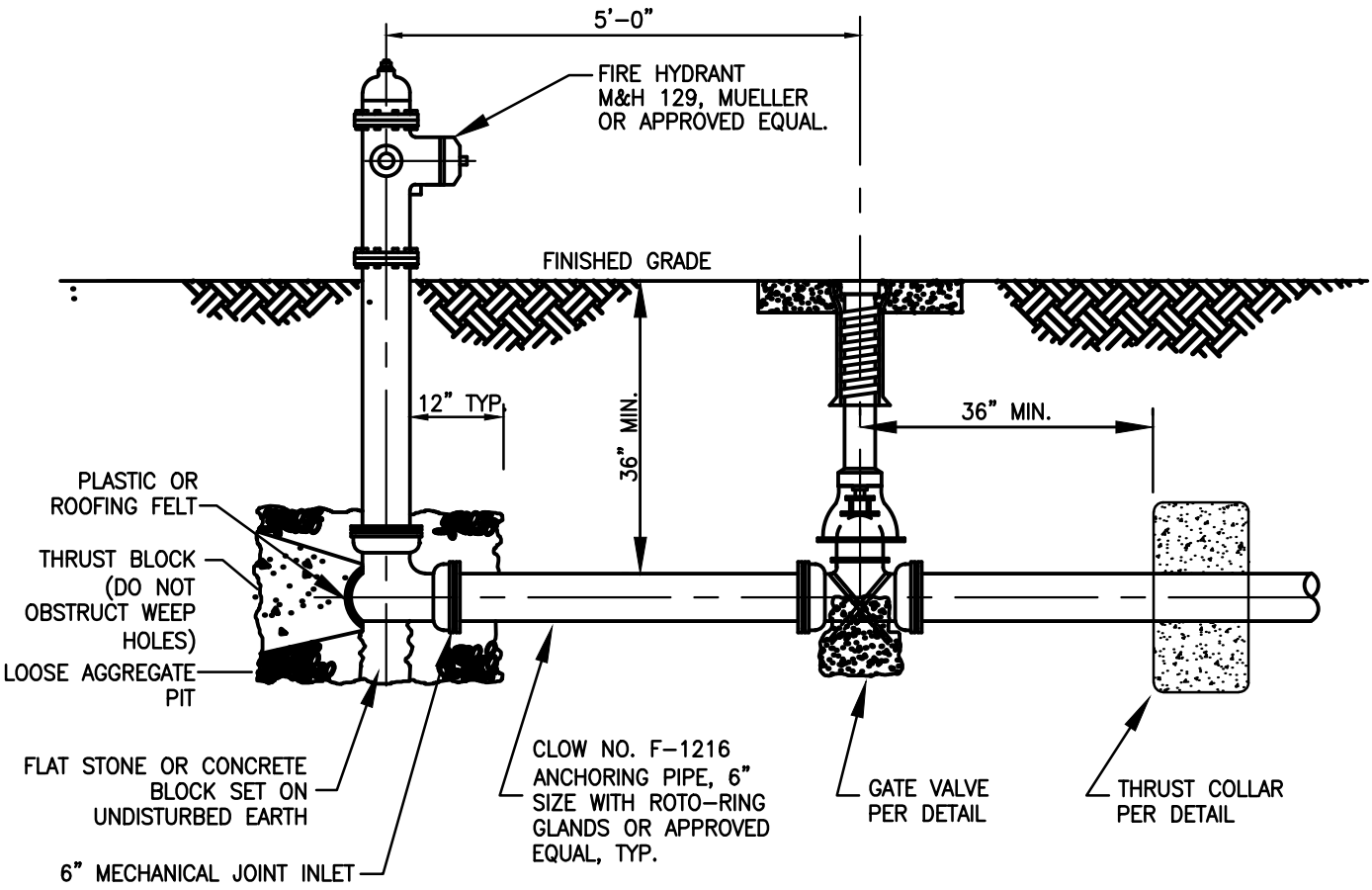
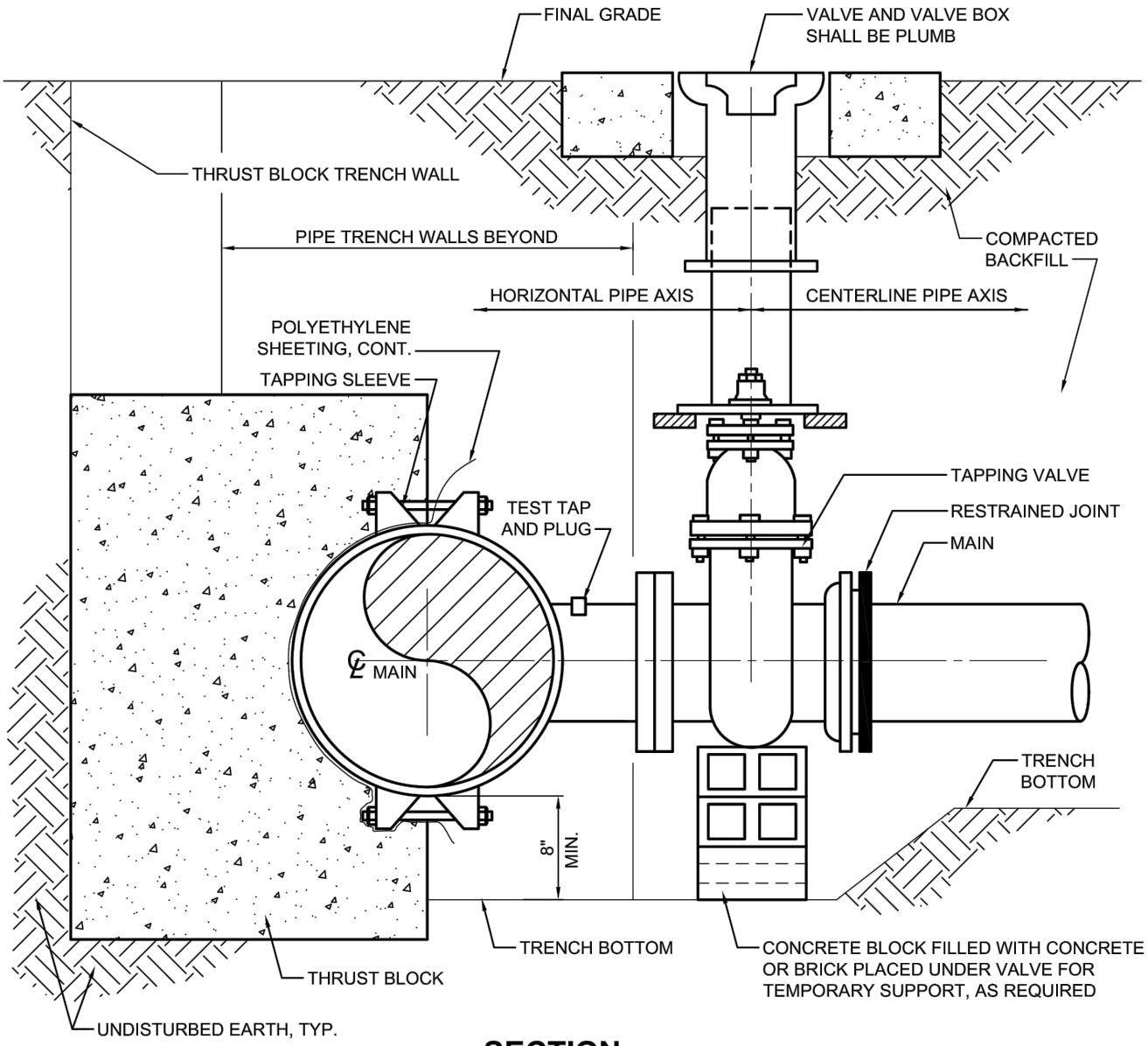


NOTES:

1. RESTRAIN ALL PIPE & FITTINGS SHOWN THIS SHEET.

CITY OF DAHLONEGA STANDARD DETAIL W8
DEAD END FIRE HYDRANT ASSEMBLY

SCALE: NTS
DATE OF LAST REVISION: 03/22

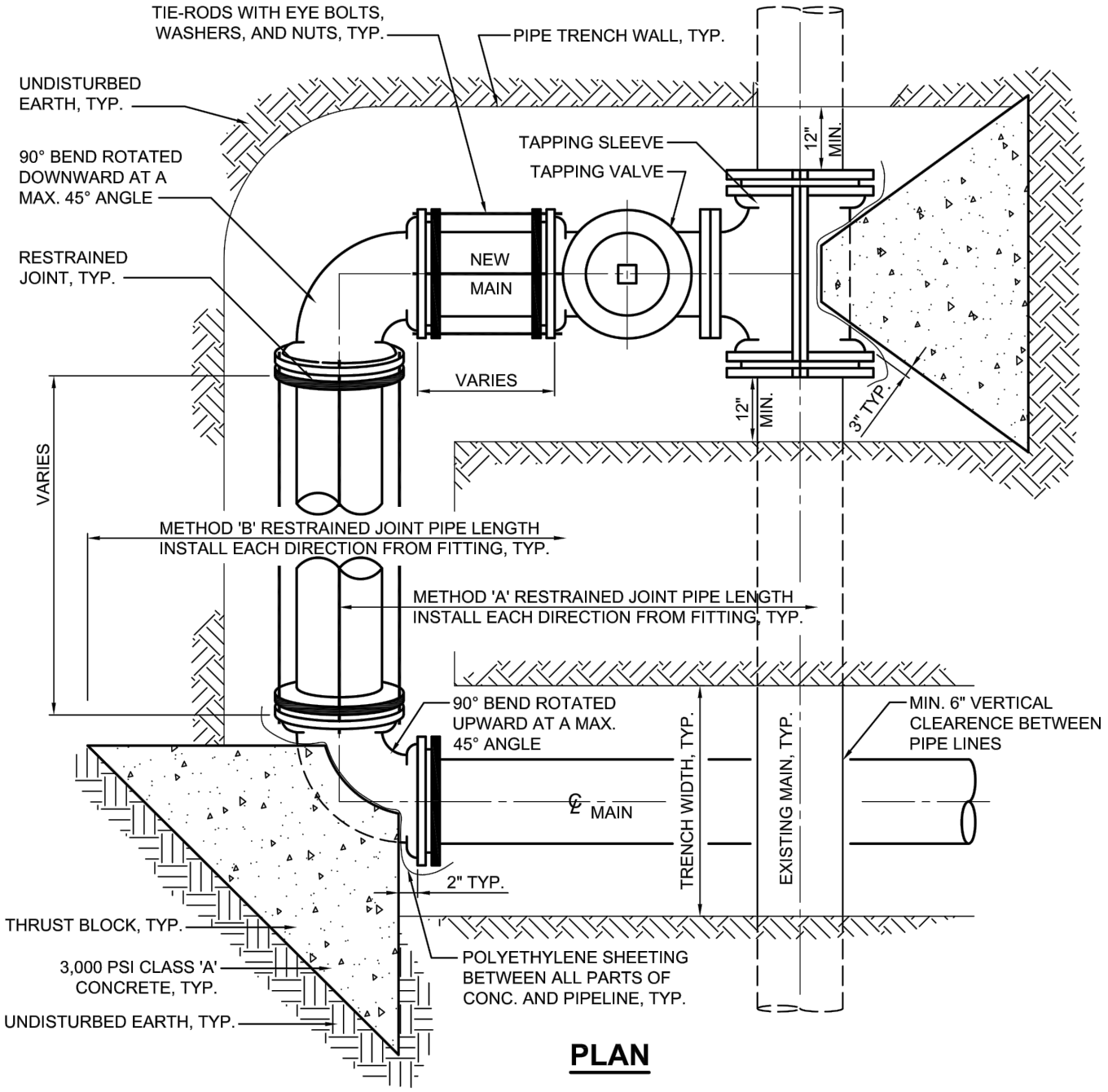


SECTION

NOTES:
1. TEMPORARILY SUPPORT TAPPING SLEEVE AND VALVE PRIOR TO HYDROSTATIC TESTING AND UPON ACCEPTANCE OF TEST THEN CONCRETE MAY BE INSTALLED AS SHOWN.
2. REFER TO TYPICAL HORIZONTAL THRUST BLOCK DRAWING G7 FOR ADDITIONAL DETAILS.
3. REFER TO TYPICAL VALVE BOX INSTALLATION DRAWING W19 FOR ADDITIONAL DETAILS.

CITY OF DAHLONEGA STANDARD DETAIL W9
TYPICAL TAPPING SLEEVE AND VALVE INSTALLATION

SCALE: NTS
DATE OF LAST REVISION: 03/22



PLAN

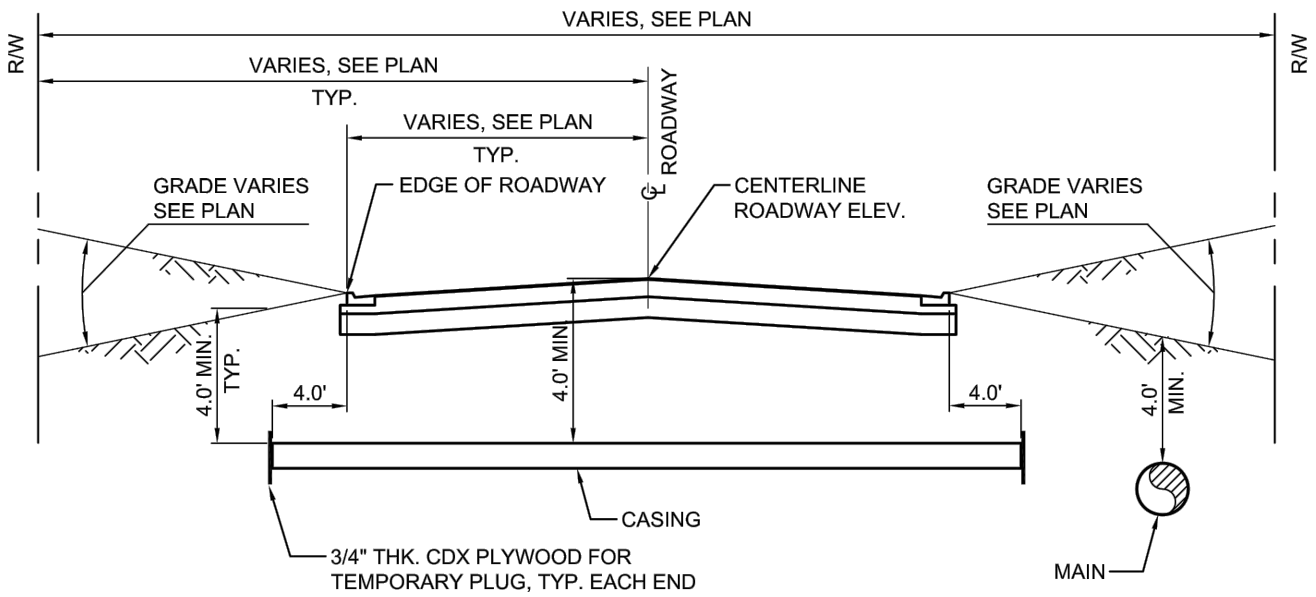
NOTES:

1. REFER TO TYPICAL HORIZONTAL THRUST BLOCK DRAWINGS G7 AND G8 FOR ADDITIONAL DETAILS.
2. REFER TO TYPICAL TAPPING SLEEVE AND VALVE INSTALLATION DRAWING W9 FOR ADDITIONAL DETAILS.
3. RESTRAINED JOINT PIPE MAY BE USED IN LIEU OF THRUST BLOCKING AND TIE-RODS INDICATED, AS APPLICABLE.
4. RESTRAINED JOINT METHOD A: RESTRAINT JOINT PIPE AND FITTINGS.
5. RESTRAINED JOINT METHOD B: ONE (1) OF THE FOLLOWING DUAL (2) INDEPENDENT RESTRAINTS:
   A. MEGA-LUGS PLUS THRUST BLOCKING.
   B. MEGA-LUGS PLUS RODDING.

CITY OF DAHLONEGA STANDARD DETAIL W10
TYPICAL BACK TAP INSTALLATION

SCALE: NTS
DATE OF LAST REVISION: 03/22

R:\2047-0001 Dahlonega-Standards & Specifications\3 ENGINEERING\Drawings\W10 - Typical Back Tap Installation.DWG Fri, 03/17/23 3:11 PM



PROFILE

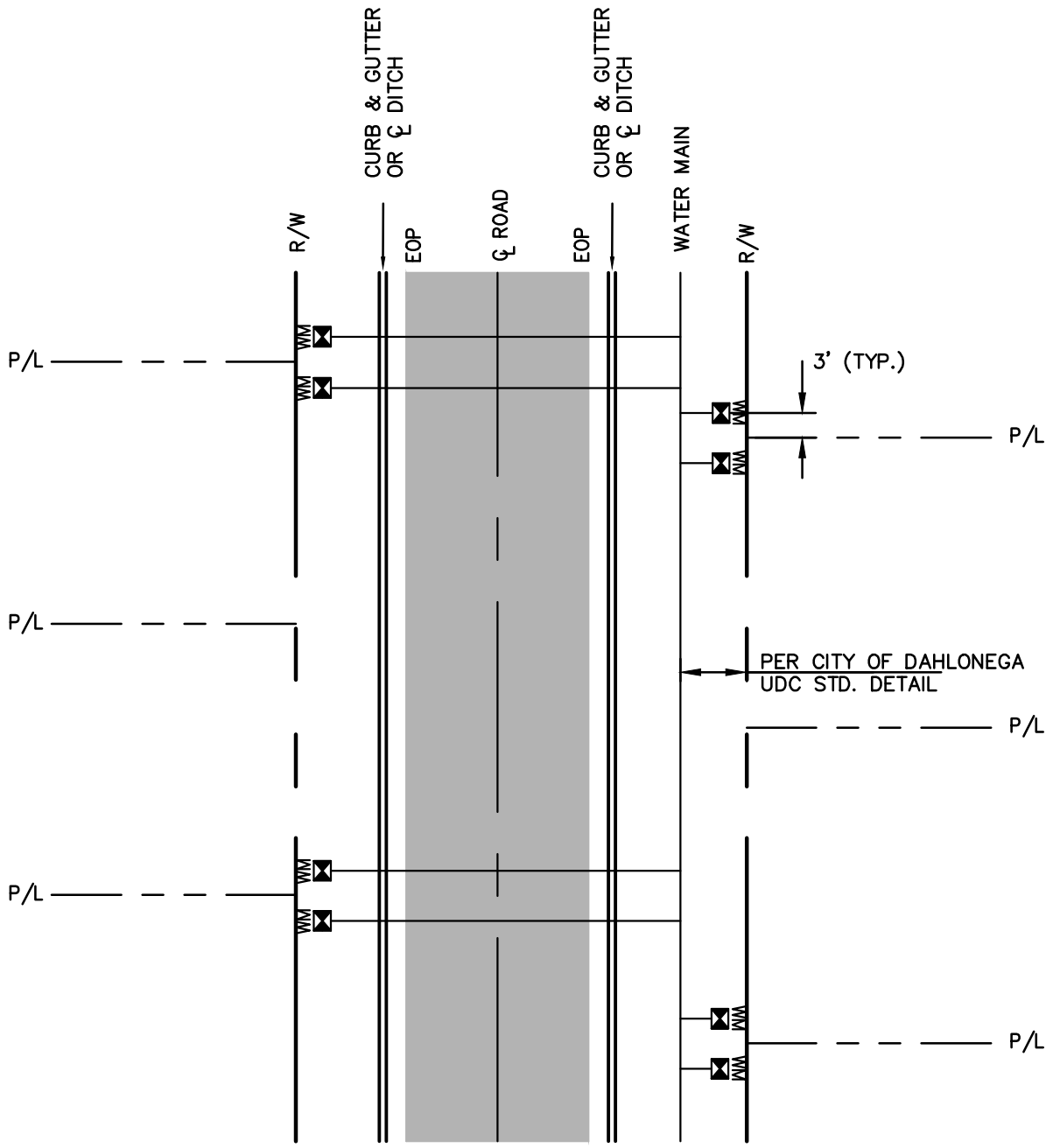
LONG SERVICE LATERAL (*INCHES)	3/4	1	1 1/2	2	2 1/2
CASING DIAMETER (*INCHES)	1 1/2	1 1/2	2	3	3

* NOMINAL SIZE

NOTES:
1. CASING SHALL BE INSTALLED AT CENTER OF EACH LONG SIDE LOT, UNLESS OTHERWISE DIRECTED BY THE CITY.

CITY OF DAHLONEGA STANDARD DETAIL W11
TYPICAL SERVICE LINE CASING INSTALLATION

SCALE: NTS
DATE OF LAST REVISION: 03/22

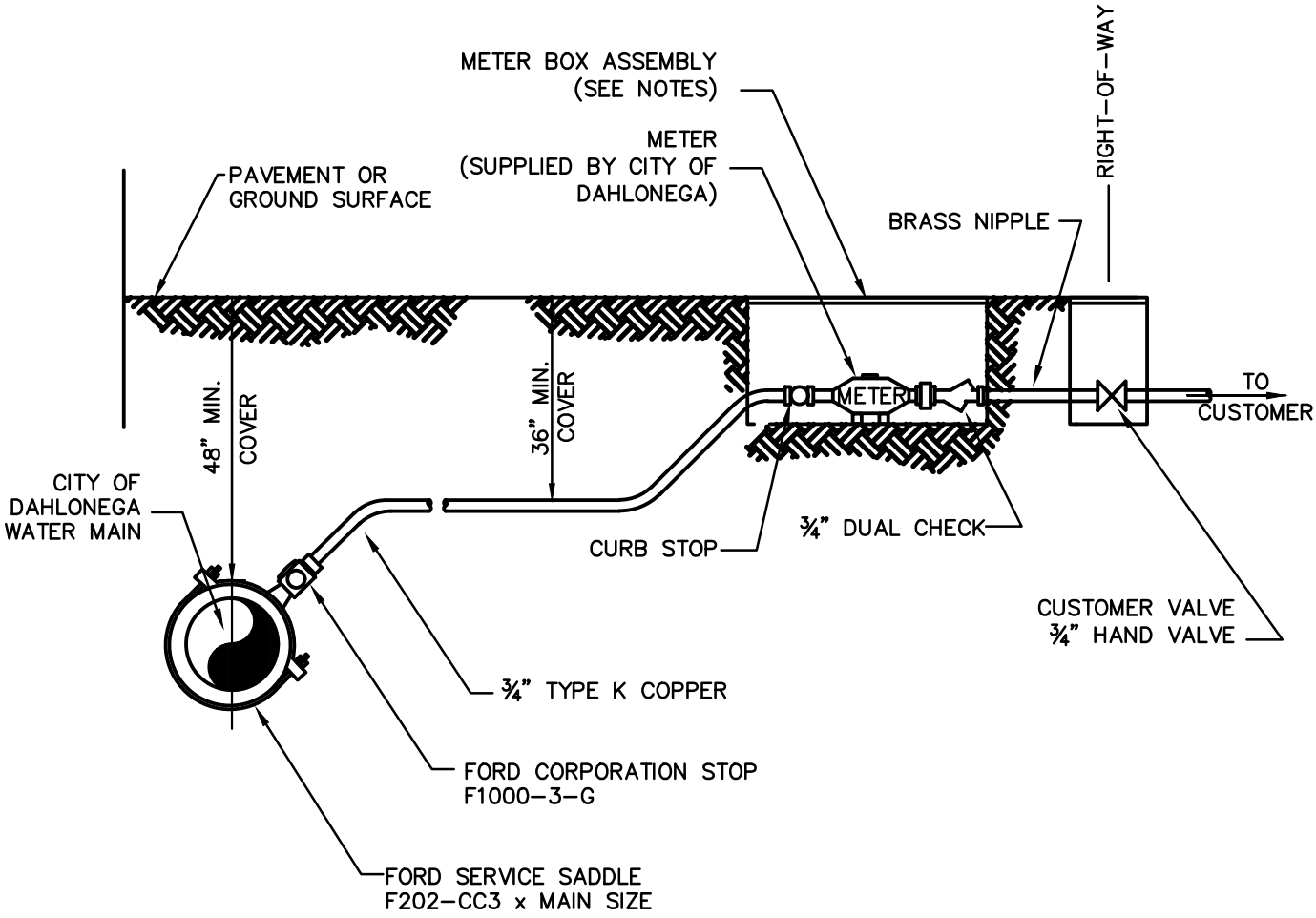


NOTE:

1. USE CONTINUOUS PIECE OF COPPER TUBING FROM WATER MAIN TO EACH WATER METER CONNECTION. NO SPLICES OR JOINTS UNDER ROADWAY ALLOWED IN COPPER TUBING.
2. BACKFLOW PREVENTER IS REQUIRED FOR ALL METERS.
3. DEVELOPER IS RESPONSIBLE FOR ALL COMPONENTS EXCEPT METER FOR WATER METERS GREATER THAN 1".
4. DEVELOPER IS RESPONSIBLE FOR ALL WORK INCLUDING TAPS.
5. ALL TAPS MUST BE WET TAPS UNLESS APPROVED OTHERWISE BY THE CITY.

CITY OF DAHLONEGA STANDARD DETAIL W12
TYPICAL METER PLACEMENT

SCALE: NTS
DATE OF LAST REVISION: 03/22



NOTES:

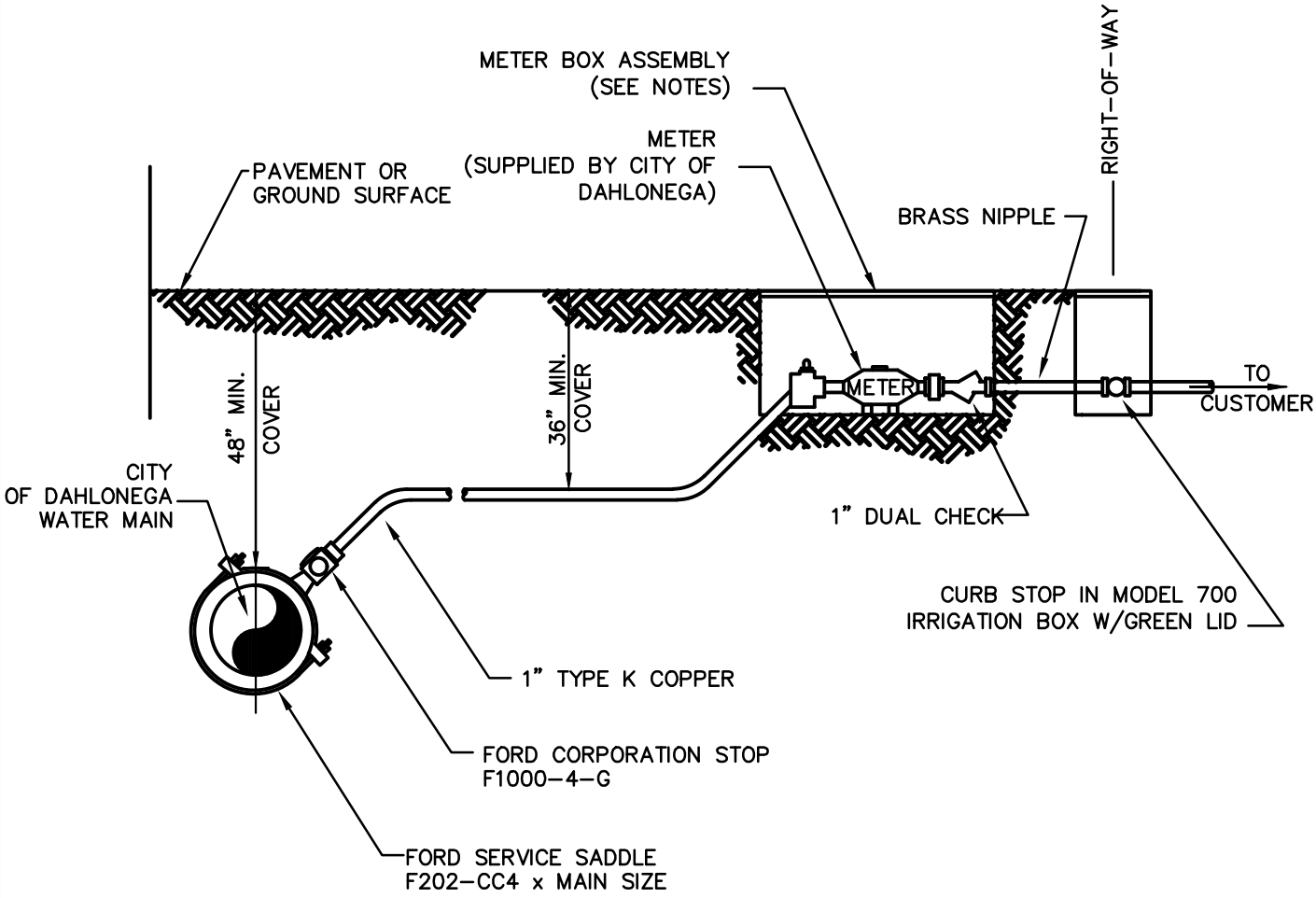
1. DRILL 1½" HOLE IN CENTER OF METER BOX LID FOR TOUCH READ.
2. METER BOX ASSEMBLY (FORD) INCLUDES:
   - A. FORD INLET (3/4"CTS GRIP JOINT)
   - B. FORD YOKEBOX (YLYVP241-233-T-G)
   - C. FORD OUTLET (3/4" FIP)
3. FORD YOKEBOX CONSTRUCTION:
   - A. MATERIAL:
     CAST GRAY IRON,
     ASTM A48-92, CLASS 25
   - B. FINISH:
     PAINTED BLACK ASPHALT

CITY OF DAHLONEGA STANDARD DETAIL W13

¾" RESIDENTIAL METER DETAIL

SCALE: NTS

DATE OF LAST REVISION: 03/22

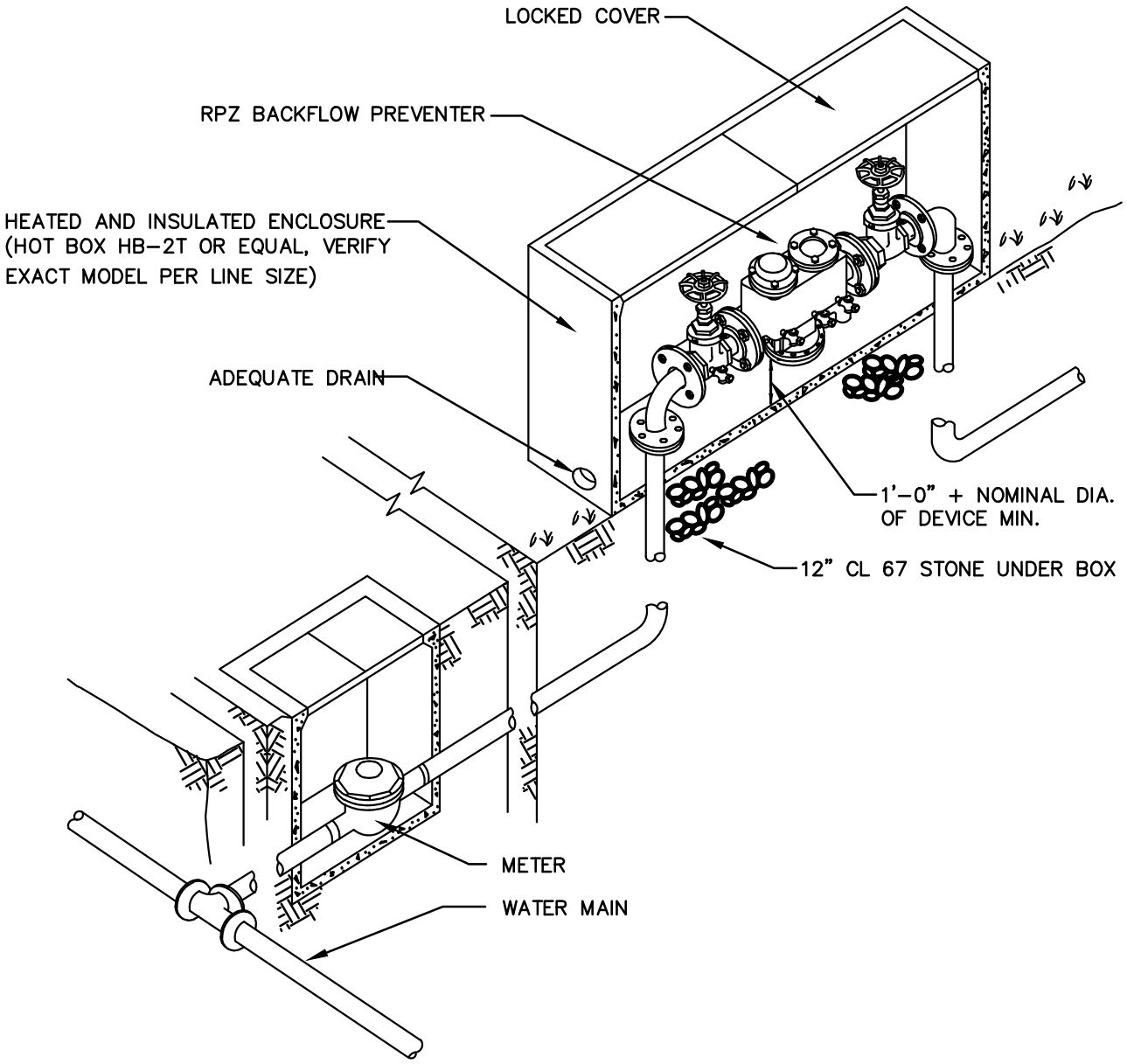


NOTES:

1. DRILL 1½" HOLE IN CENTER OF METER BOX LID FOR TOUCH READ.
2. METER BOX ASSEMBLY (FORD) INCLUDES:
   - A. FORD INLET (1"CTS GRIP JOINT)
   - B. FORD YOKEBOX (YLYVP241-243-T-G)
   - C. FORD OUTLET (1" FIP)
3. FORD YOKEBOX CONSTRUCTION:
   - A. MATERIAL:
     CAST GRAY IRON,
     ASTM A48-92, CLASS 25
   - B. FINISH:
     PAINTED BLACK ASPHALT

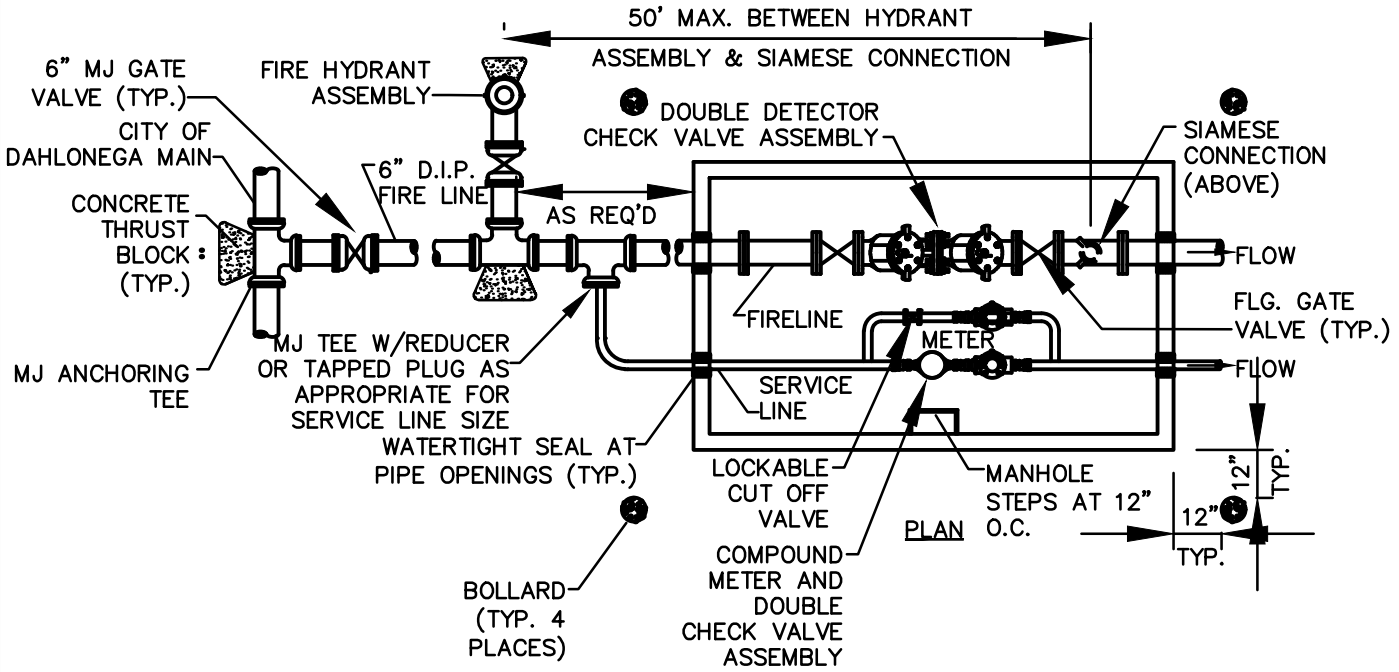
CITY OF DAHLONEGA STANDARD DETAIL W14
1" METER DETAIL

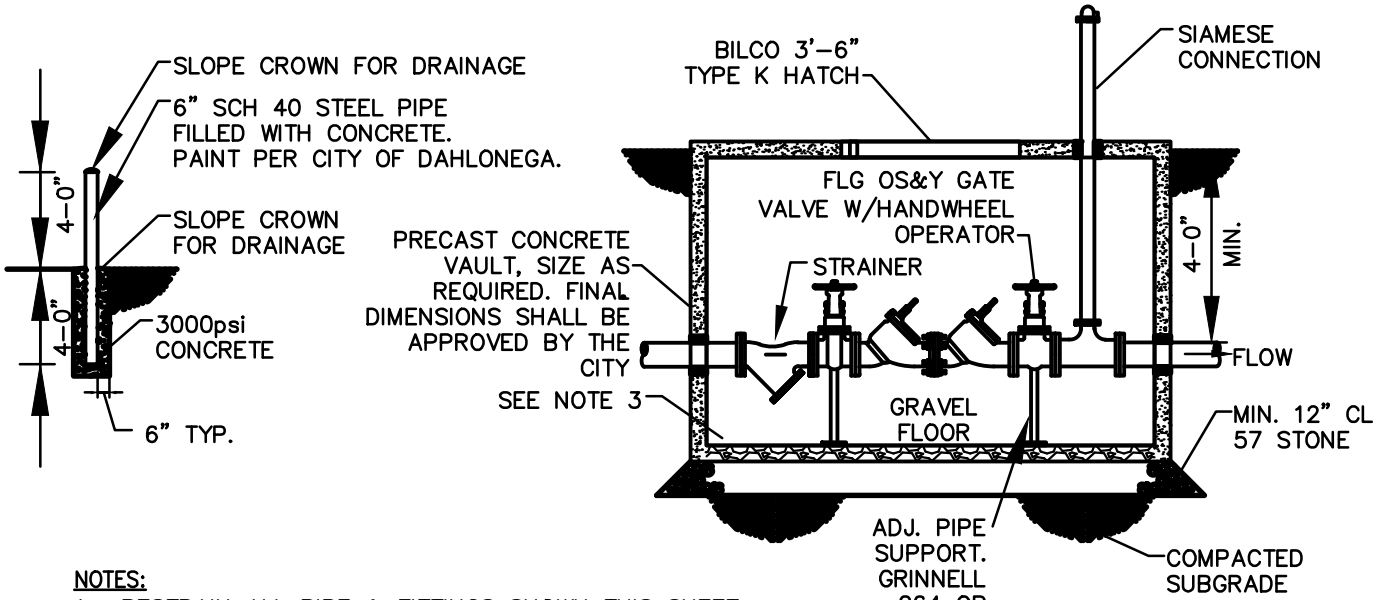
SCALE: NTS
DATE OF LAST REVISION: 03/22



CITY OF DAHLONEGA STANDARD DETAIL W15
RPZ BACKFLOW PREVENTER

SCALE: NTS
DATE OF LAST REVISION: 03/22





NOTES:

1. RESTRAIN ALL PIPE & FITTINGS SHOWN THIS SHEET.
2. EXPOSED PIPE AND FITTINGS TO BE FLANGED DUCTILE IRON.
3. SLOPE FLOOR @ 2% TO 4" FLOORDRAIN AND INSTALL 4" PIPE TO NEAREST STORMDRAIN.

OR

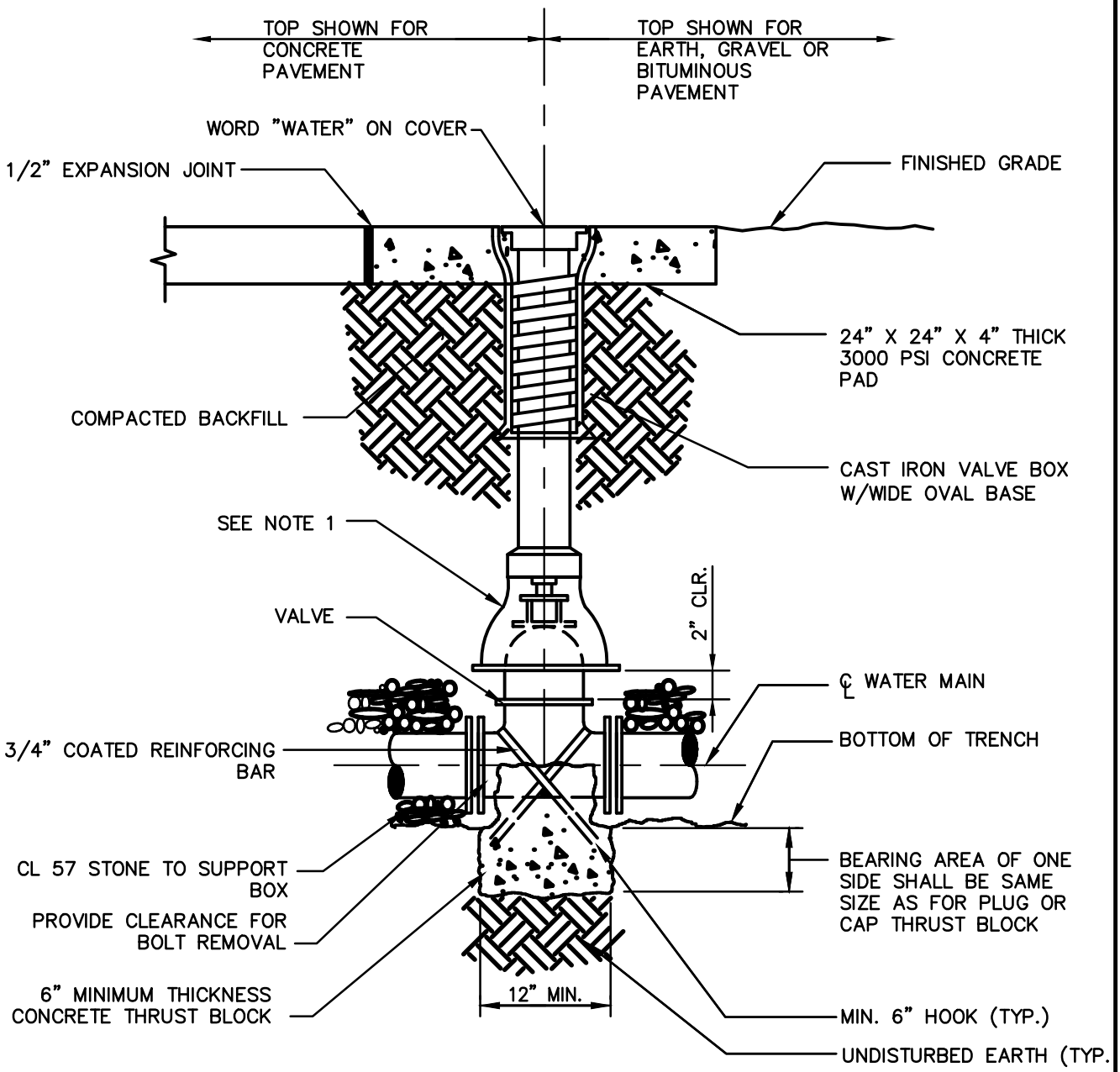
PROVIDE CONCRETE SUMP IN FLOOR AND FLOAT OPERATED SUMP PUMP, PIPE TO NEAREST STORMDRAIN W/ 2" DRAIN PIPE.

4. FIRE METER AND SERVICE METER CAN BE PLACED IN SAME VAULT.

CITY OF DAHLONEGA STANDARD DETAIL W16
DOUBLE CHECK VAULT

SCALE: NTS

DATE OF LAST REVISION: 03/22

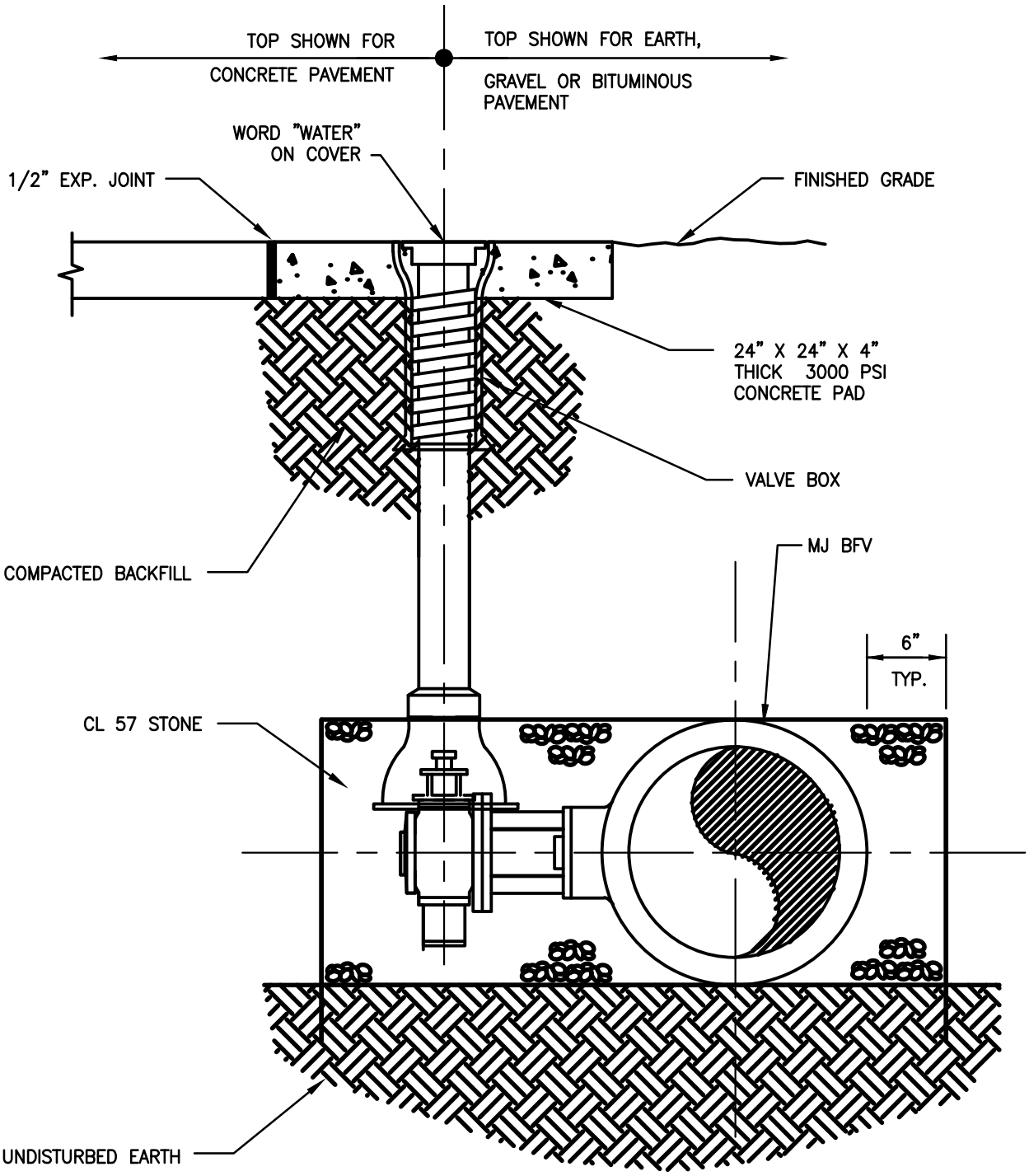


NOTES

1. MAINTAIN CLEARANCE SUCH THAT VALVE BOX BASE DOES NOT BEAR DIRECLY ON VALVE BONNET.
2. PROVIDE CONCRETE VALVE MARKER AT ALL VALVES NOT IN PAVEMENT.

CITY OF DAHLONEGA STANDARD DETAIL W17
BURIED GATE VALVE

SCALE: NTS
DATE OF LAST REVISION: 03/22

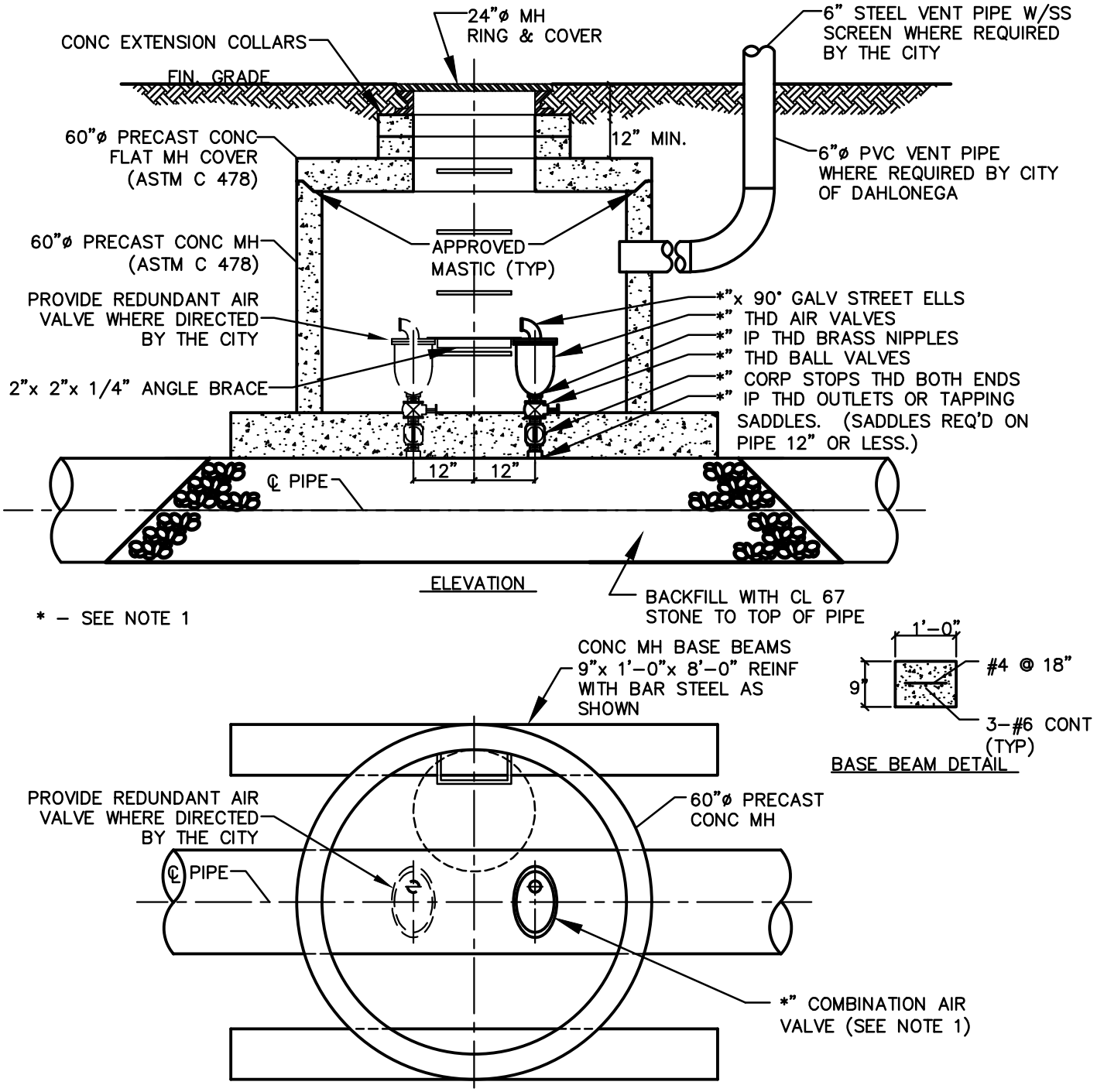


NOTES:

1. PROVIDE CONCRETE VALVE MARKER AT ALL VALVES NOT IN PAVEMENT.

CITY OF DAHLONEGA STANDARD DETAIL W18
BURIED BUTTERFLY VALVE

SCALE: NTS
DATE OF LAST REVISION: 03/22



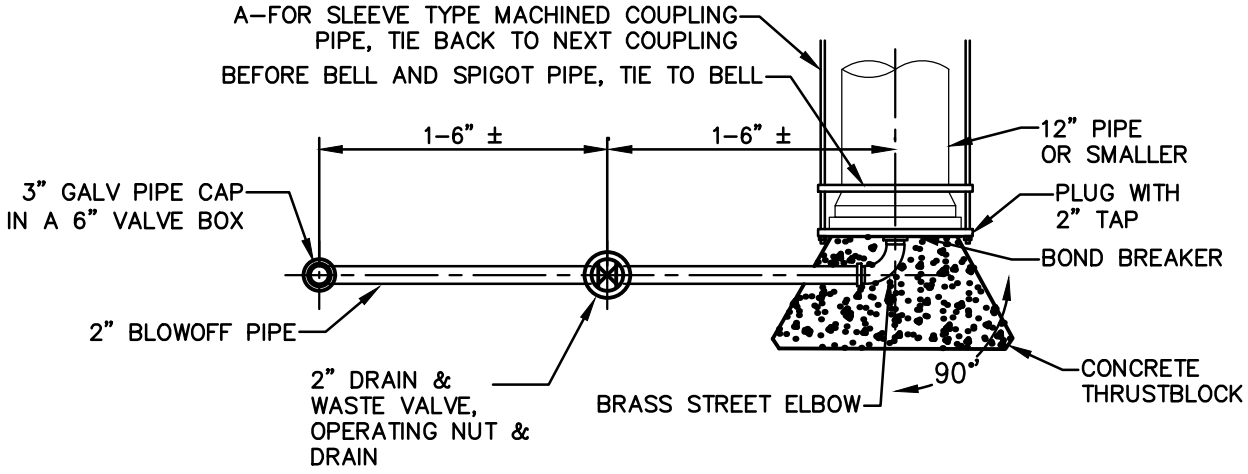
NOTES:

1. USE 1" AIR VALVE ASSEMBLIES FOR PIPE <= 12", USE 2" AIR VALVE ASSEMBLY ON PIPE > 12".
2. THE DISTANCE BETWEEN RUNGS, CLEATS, AND STEPS SHALL NOT EXCEED 12 INCHES AND SHALL BE UNIFORM THROUGHOUT THE LENGTH OF THE LADDER.
3. LADDER RUNGS ARE REQUIRED IN PRECAST CONC MH.

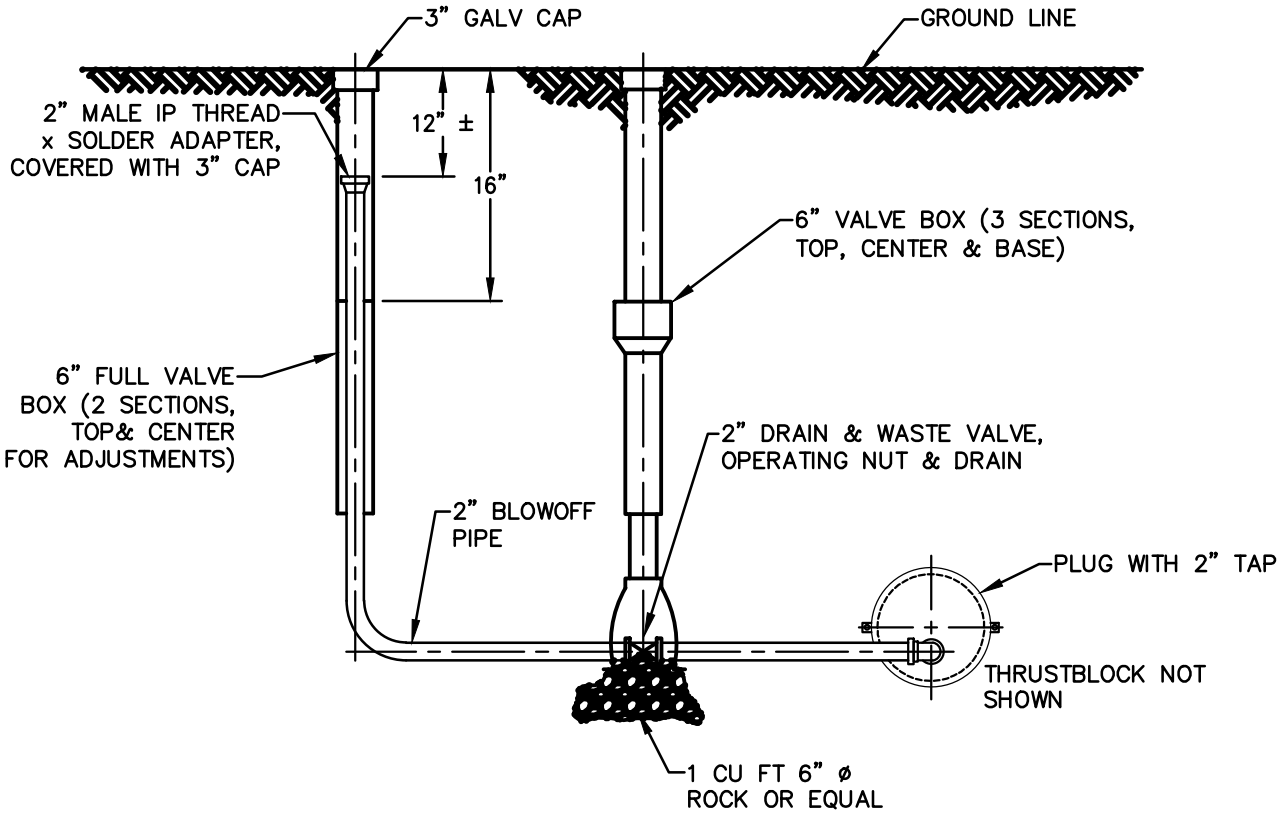
CITY OF DAHLONEGA STANDARD DETAIL W19
AIR RELEASE VALVE

SCALE: NTS
DATE OF LAST REVISION: 03/22

NOTE:
1. PLUG SHALL BE MECHANICALLY RESTRICTED.



PLAN

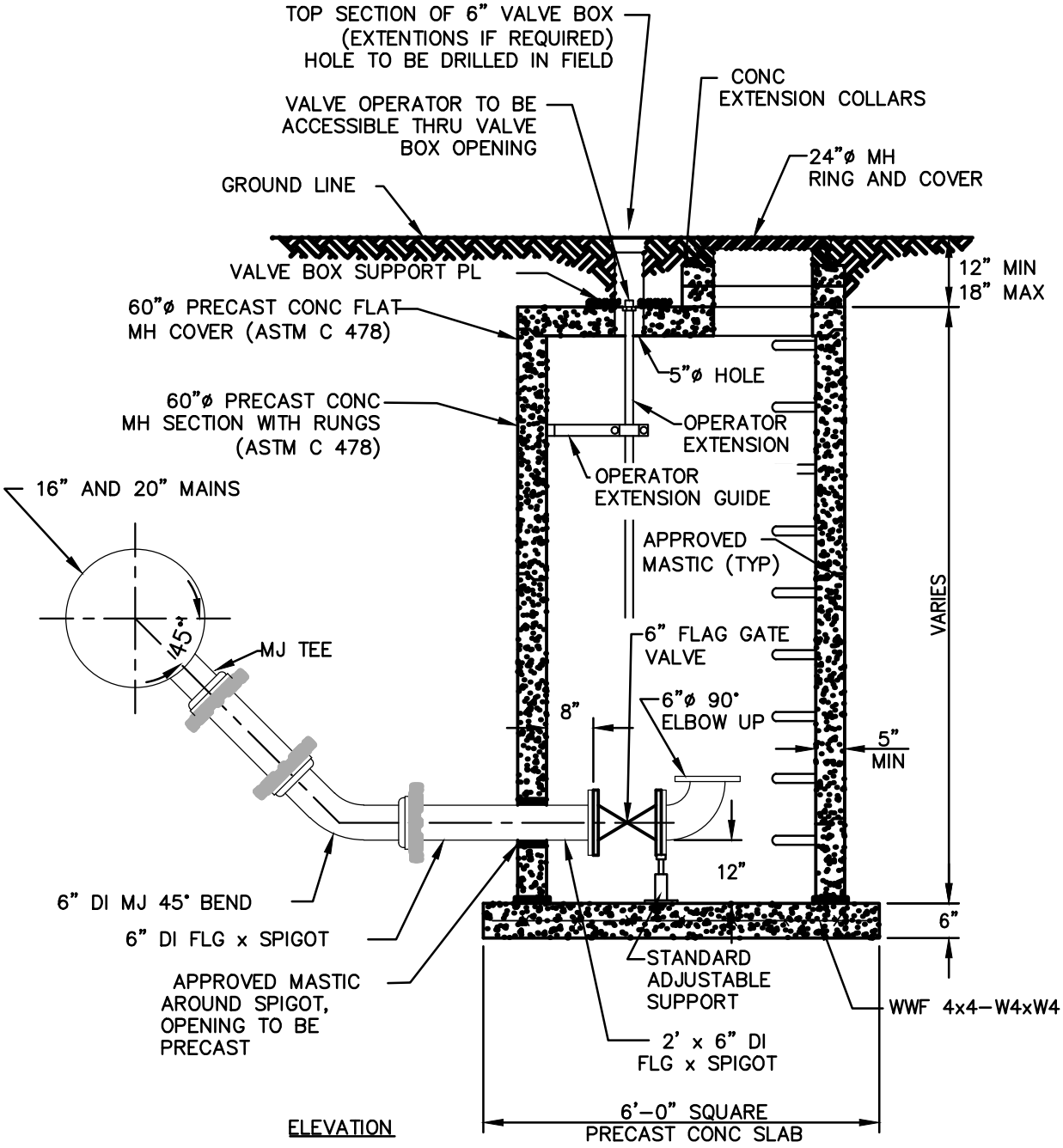


ELEVATION

NOTE:
1. BLOWOFF PIPE TO BE TYPE K SOFT COPPER OR BRASS.

CITY OF DAHLONEGA STANDARD DETAIL W20
BLOWOFF INSTALLATION FOR 12" AND SMALLER PIPE

SCALE: NTS
DATE OF LAST REVISION: 03/22



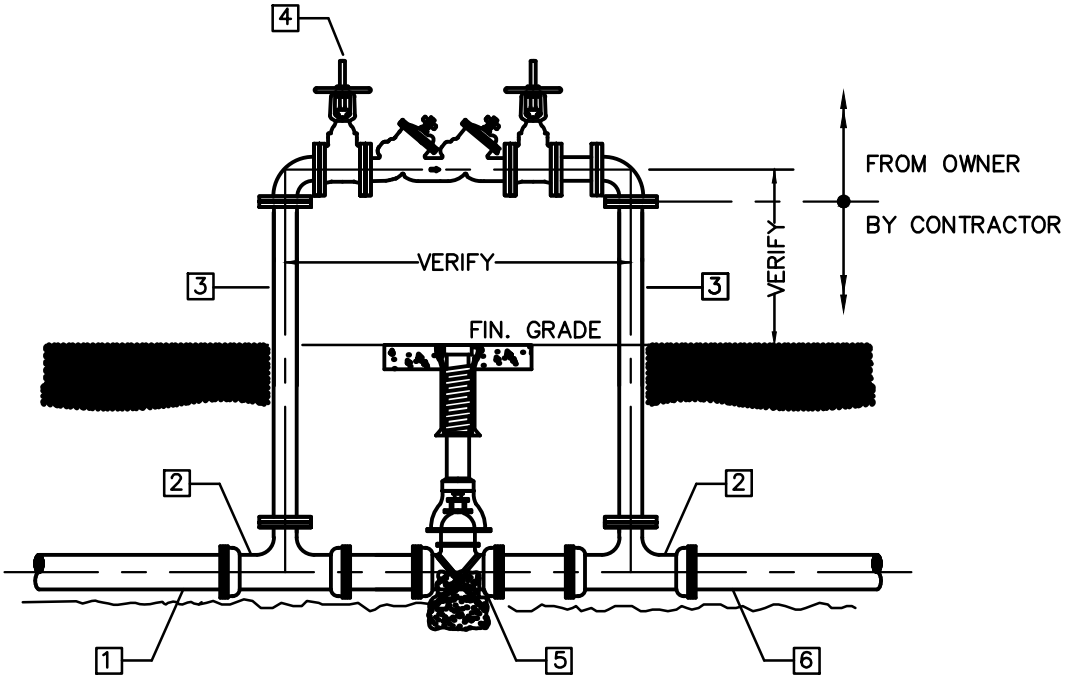
NOTE:
1. THIS INSTALLATION MAY BE REPLACED BY A FIRE HYDRANT WHERE APPROVED BY CITY OF DAHLONEGA FOR 16" AND 20" MAINS.

CITY OF DAHLONEGA STANDARD DETAIL W21
TRANSMISSION MAIN BLOWOFF INSTALLATION

SCALE: NTS
DATE OF LAST REVISION: 03/22

COMPONENTS

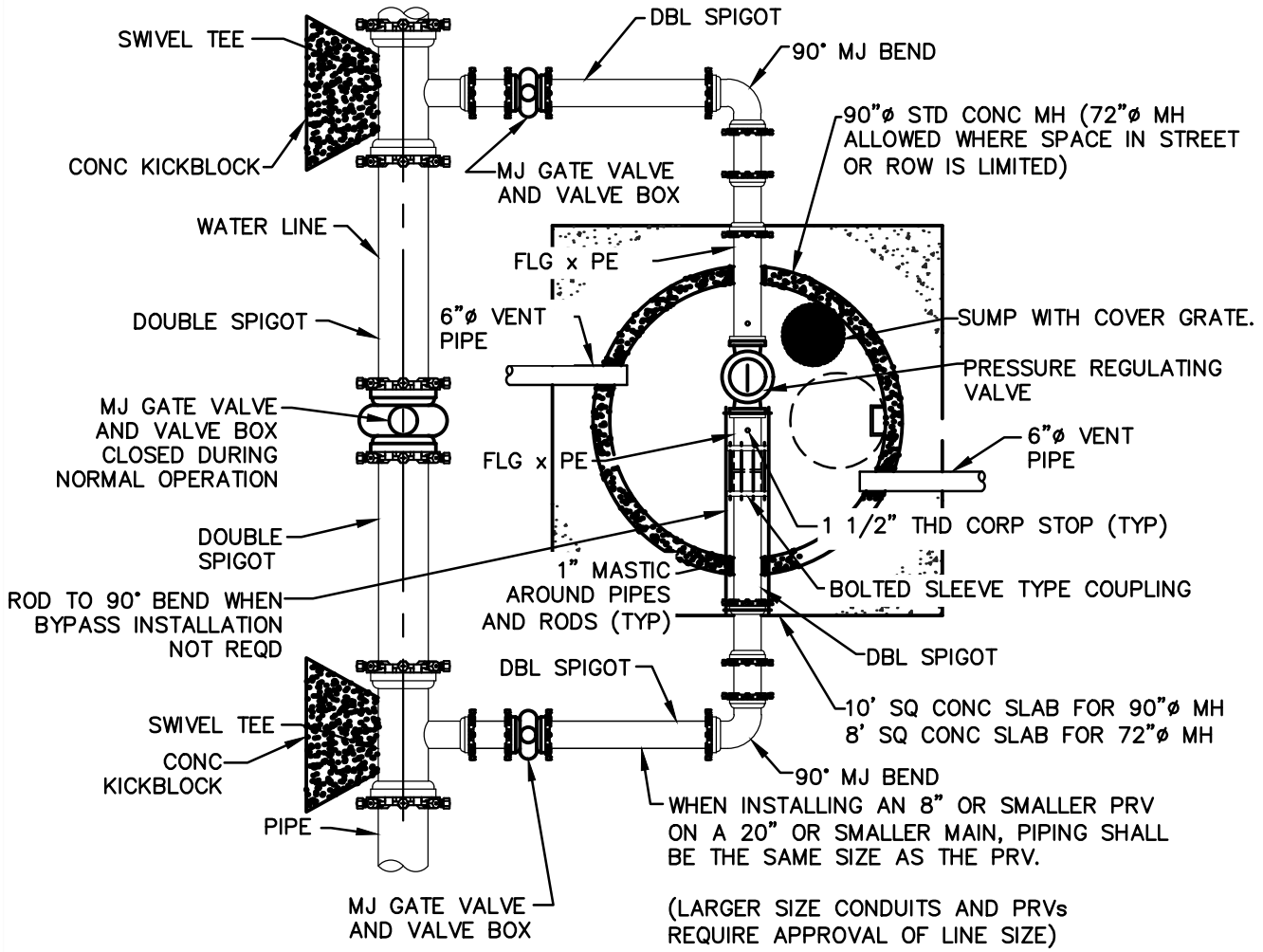
1. EXISTING CITY OF DAHLOENGA MAIN
2. MJ x FLG TEE (LINE x 4")
3. 4" FLG. D.I. PIPE
4. 4" BACKFLOW PREVENTION ASSEMBLY (FROM CITY OF DAHLONEGA)
5. MJ GATE VALVE
6. NEW MAIN



1. RESTRAIN ALL PIPE AND FITTINGS SHOWN THIS SHEET. BLIND FLANGE BRANCH OF LINE TEES WHEN TESTING IS COMPLETE.
2. DO NOT SCALE THIS DRAWING.
3. FOR TRENCHES CUT THROUGH ROCK, TAMPED BACKFILL SHALL BE USED FOR AT LEAST 6" UNDER AND AROUND THE PIPE AND FOR AT LEAST 2 FT ABOVE THE PIPE.
4. PIPING SHALL BE FLUSHED THOROUGHLY.
5. THIS DETAIL IS REQUIRED FOR ALL NEW PIPELINES WHICH HAVE NOT PASSED BAC-T TESTING WHEN CONNECTING TO CITY OF DAHLONEGA WATERLINES.
6. THE TRENCH SHALL BE BACKFILLED BETWEEN JOINTS BEFORE TESTING TO PREVENT MOVEMENT OF PIPE.
7. ALL WORK SHALL BE TESTED HYDROSTATICALLY AT NOT LESS THAN 200 PSI FOR A PERIOD OF NOT LESS THAN 2 HRS OR AS REQ'D BY PROJECT SPECIFICATIONS.
8. ALL NECESSARY THRUST BLOCKS AND/OR CONC. COLLARS SHALL BE POURED IN ORDER TO PROPERLY SECURE ALL WORK FROM MOVEMENT.

CITY OF DAHLONEGA STANDARD DETAIL W22
FILL VALVE ASSEMBLY

SCALE: NTS
DATE OF LAST REVISION: 03/22

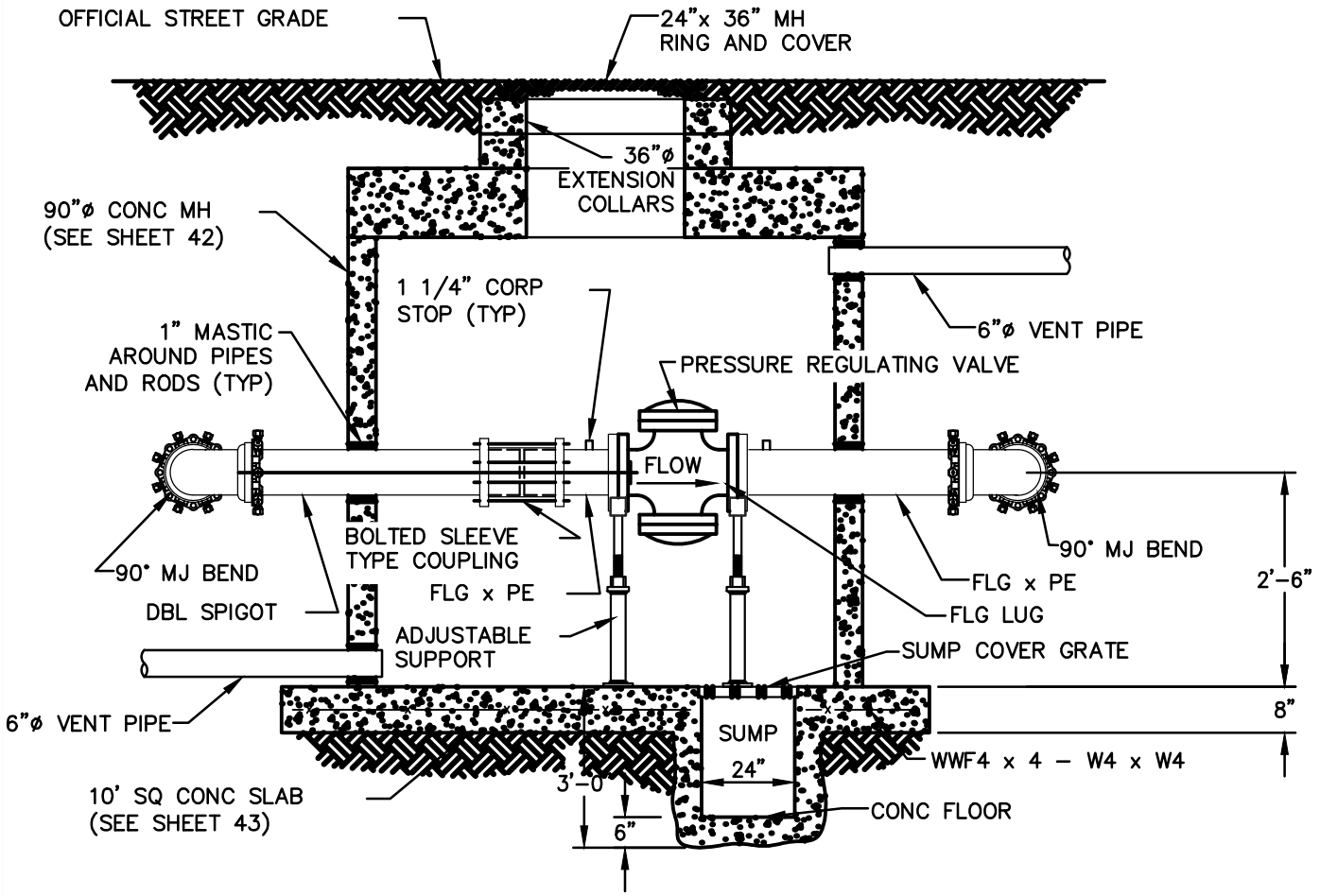


NOTES:

1. A RECTANGULAR VAULT IS REQD WHERE TELEMETRY OR ELECTRICAL EQUIPMENT IS ANTICIPATED INSIDE THE VAULT.
2. ACCESS STAIRS WITH DOOR OUTSIDE OF PAVEMENT MAY BE REQD ON STREETS WITH HEAVY TRAFFIC.
3. FOR CROSS SECTION VIEW, SEE CITY OF DAHLONEGA STANDARD DETAIL W25.
4. DO NOT PLACE SUMP DIRECTLY UNDER MH.
5. THIS MH IS SUITABLE FOR CHECK VALVE INSTALLATIONS.
6. PIPING FOR PRV AND CHECK VALVE INSTALLATIONS SHALL BE DI.
7. LADDER RUNGS ARE REQD IN PRE-CAST MH. THE DISTANCE BETWEEN RUNGS, CLEATS, AND STEPS SHALL NOT EXCEED 12" AND SHALL BE UNIFORM THROUGHOUT THE LENGTH OF THE LADDER.

CITY OF DAHLONEGA STANDARD DETAIL W23
PRESSURE REGULATING VALVE MANHOLE TYPICAL PLAN

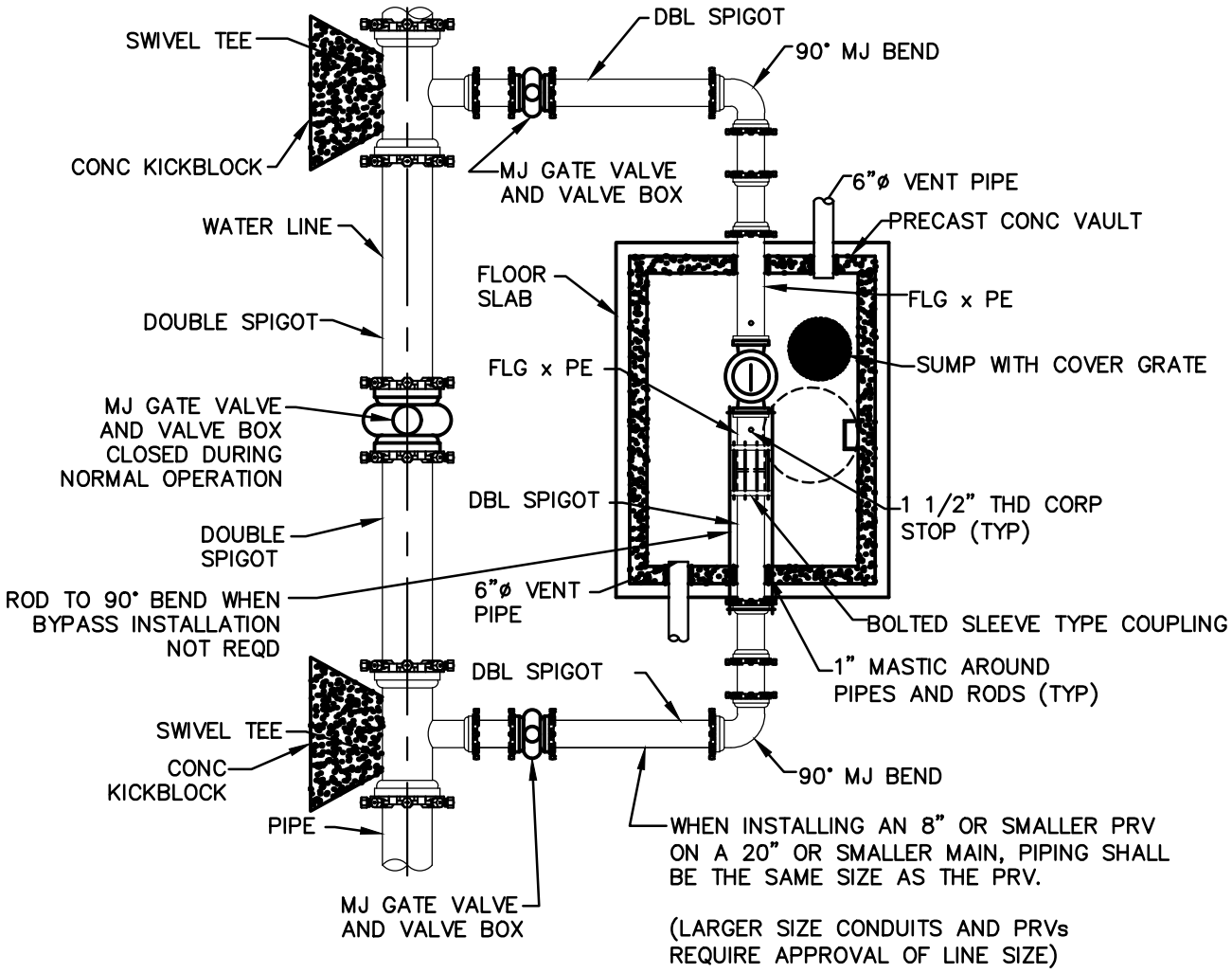
SCALE: NTS
DATE OF LAST REVISION: 03/22



NOTE:
SEE CITY OF DAHLONEGA STANDARD DETAIL W24
FOR PLAN VIEW AND ADDITIONAL NOTES.

CITY OF DAHLONEGA STANDARD DETAIL W24
PRESSURE REGULATING VALVE MANHOLE CROSS SECTION

SCALE: NTS
DATE OF LAST REVISION: 03/22



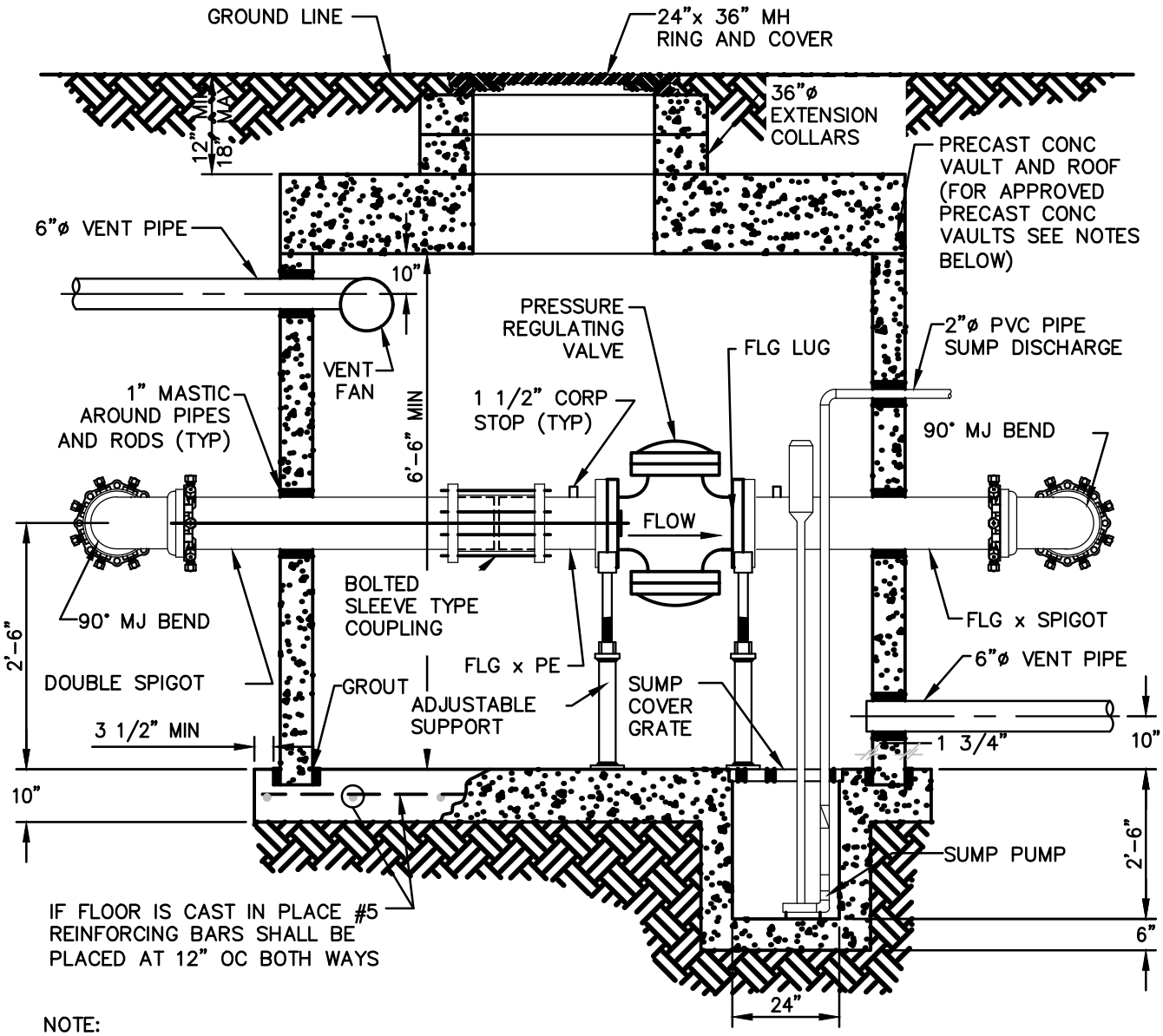
NOTES:

1. A RECTANGULAR VAULT IS REQD WHERE TELEMETRY OR ELECTRICAL EQUIPMENT IS ANTICIPATED INSIDE THE VAULT.
2. ACCESS STAIRS WITH DOOR OUTSIDE OF PAVEMENT MAY BE REQD ON STREETS WITH HEAVY TRAFFIC. FOR CROSS SECTION VIEW, SEE CITY OF DAHLONEGA STANDARD DETAIL W27.
3. DO NOT PLACE SUMP DIRECTLY UNDER MH.
4. THIS MH IS SUITABLE FOR CHECK VALVE INSTALLATIONS.
5. PIPING FOR PRV AND CHECK VALVE INSTALLATIONS SHALL BE DI.
6. LADDER RUNGS ARE REQD IN PRE-CAST MH. THE DISTANCE BETWEEN RUNGS, CLEATS, AND STEPS SHALL NOT
7. EXCEED 12" AND SHALL BE UNIFORM THROUGHOUT THE LENGTH OF THE LADDER.

CITY OF DAHLONEGA STANDARD DETAIL W25
PRESSURE REGULATING VALVE RECTANGULAR VAULT INSTALLATION TYPICAL PLAN

SCALE: NTS

DATE OF LAST REVISION: 03/22

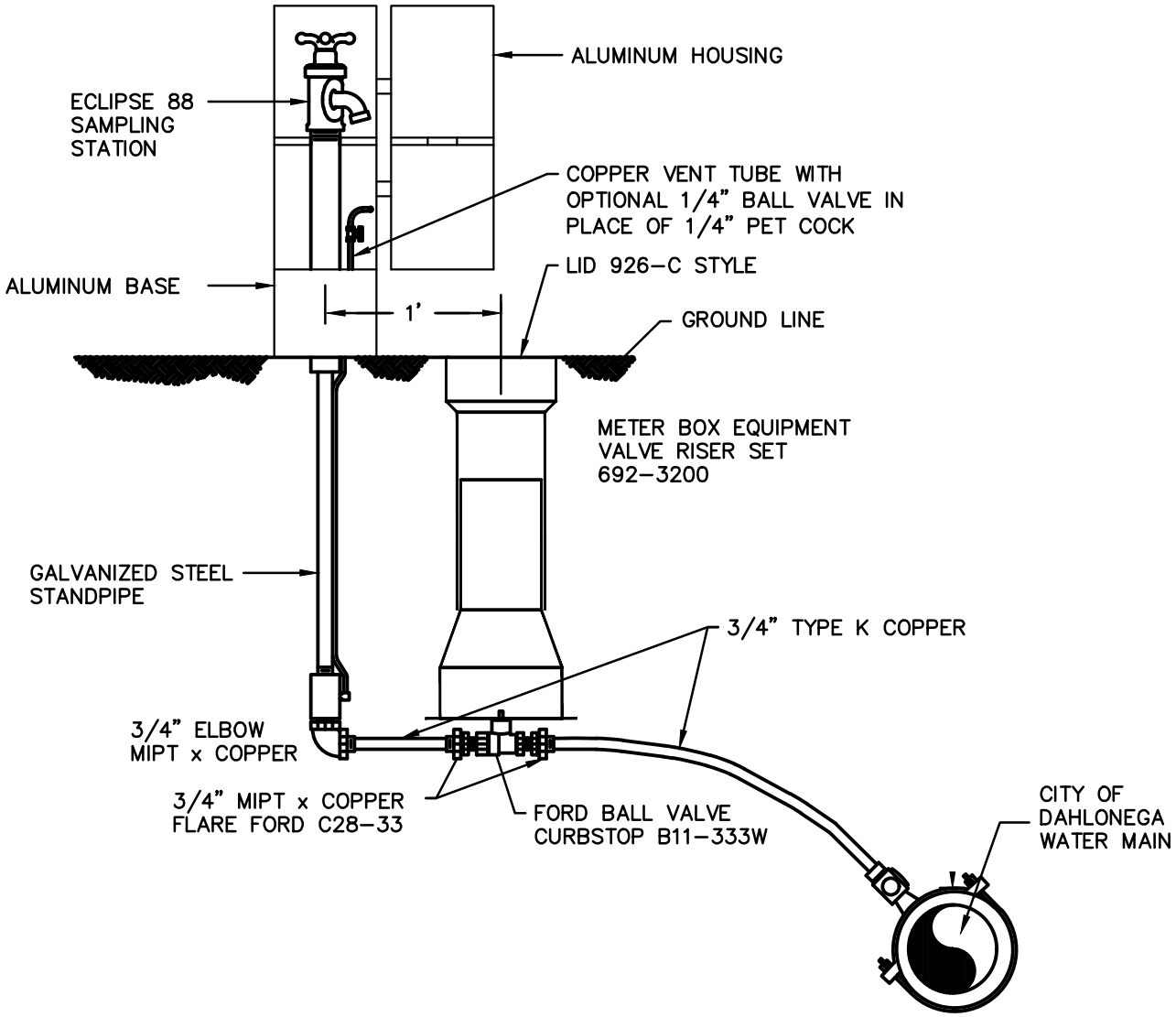


NOTE:
1. APPROVED PRECAST CONC VAULTS:
   AMCOR CONC INC– 10'x 10'x 7' 7080M, 7080–12.
   ADAMS CITY MFG 12', 6'x 8'–6", 7'x 12'–6"
2. SEE CITY OF DAHLONEGA STANDARD DETAIL W26 FOR PLAN VIEW AND ADDITIONAL NOTES.

CITY OF DAHLONEGA STANDARD DETAIL W26
PRESSURE REGULATING VALVE RECTANGULAR VAULT INSTALLATION CROSS SECTION

SCALE: NTS

DATE OF LAST REVISION: 03/22



NOTES:

1. SAMPLING STATIONS SHALL BE 4' BURY, WITH A 3/4" FIP INLET, AND A (3/4" HOSE OR UNTHREADED) NOZZLE.
2. ALL STATIONS SHALL BE ENCLOSED IN A LOCKABLE, NONREMOVABLE, ALUMINUM-CAST HOUSING.
3. WHEN OPENED, THE STATION SHALL REQUIRE NO KEY FOR OPERATION, AND THE WATER WILL FLOW IN AN ALL BRASS WATERWAY.
4. ALL WORKING PARTS WILL ALSO BE OF BRASS AND BE REMOVABLE FROM ABOVE GROUND WITH NO DIGGING. EXTERIOR PIPING SHALL BE GALVANIZED STEEL (BRASS PIPE ALSO AVAILABLE).
5. ECLIPSE NO. 88 SAMPLING STATION SHALL BE MANUFACTURED BY KUPFERLE FOUNDRY, ST. LOUIS, MO 63102.

CITY OF DAHLONEGA STANDARD DETAIL W27
ECLIPSE #88 WATER SAMPLING STATION

SCALE: NTS
DATE OF LAST REVISION: 03/22