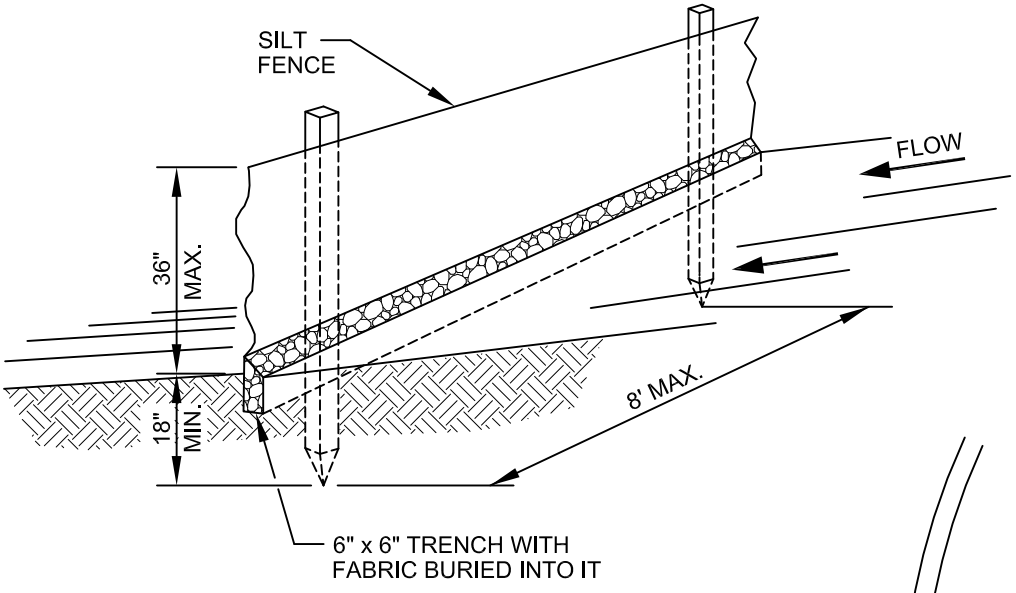
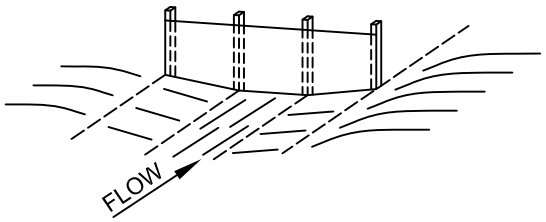
DETAILS

TABLE OF CONTENTS

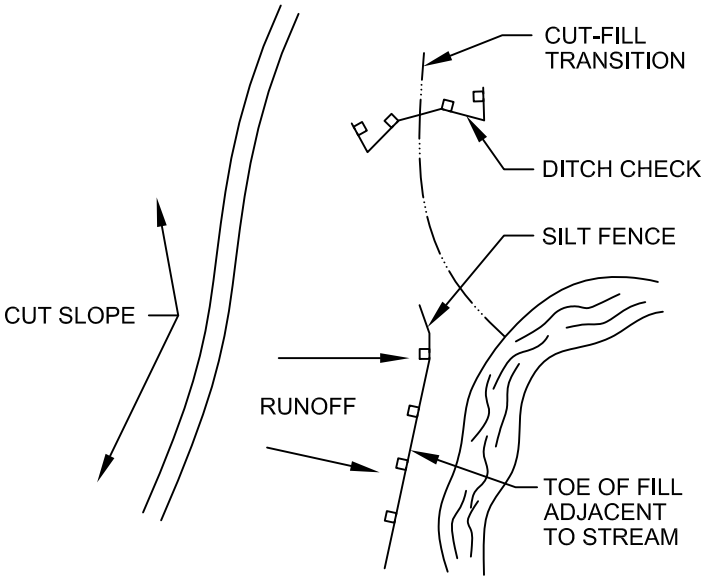
STANDARD SPECIFICATIONS AND DETAILS
FOR
STREET AND UTILITY CONSTRUCTION
CITY OF SHERIDAN



SILT FENCE CONSTRUCTION



DITCH CHECK



PROTECTION OF LIVE STREAM

NOTES:

1. A SILT FENCE IS A VERTICAL BARRIER OF GEOTEXTILE FABRIC DESIGNED TO REMOVE PARTICLES FROM THE WATER PASSING THROUGH IT.
2. SILT FENCES ARE PLACED AROUND INLETS, ACROSS MINOR SWALES, AND AT THE TOE OF SLOPES ADJACENT TO STREAMS AND DEVELOPED PROPERTY. SILT FENCE USAGE SHOULD BE LIMITED TO HANDLE AN AREA EQUIVALENT TO 1000 SQ. FT. PER 10 FT. OF FENCE. CAUTION SHOULD BE USED WHERE THE SITE SLOPE IS STEEPER THAN 1:1 AND WATER FLOW RATES EXCEED 1 CU. FT. PER SECOND PER 10 FT. OF FENCE.
3. THE SILT FENCE SHALL BE BUILT AND GRADING CONTROLLED SO THAT WATER IS FILTERED UNIFORMLY ALONG THE FENCE. THE ENDS OF THE FENCE SHALL BE TAPERED UPHILL. POSTS SHALL BE DRIVEN TO A MIN. DEPTH OF 18 INCHES AT A MAX. SPACING OF 8 FEET. WHERE AN 18-INCH DEPTH IS IMPOSSIBLE TO ACHIEVE, THE POSTS SHOULD BE ADEQUATELY SECURED TO PREVENT OVERTURNING OF THE FENCE. THE FENCE SHALL BE ATTACHED TO THE POSTS BY WIRE, CORD, STAPLES, POCKETS OR OTHER ACCEPTABLE MEANS. A MIN. OF 6 INCHES OF GEOTEXTILE FABRIC AT THE BOTTOM OF THE FENCE SHALL BE DRAPED INTO A TRENCH, BACKFILLED WITH SOIL AND COMPACTED. FENCE CONSTRUCTION SHALL BE ADEQUATE TO HANDLE THE STRESS OF THE SEDIMENT LOADING.
4. THE CONTRACTOR SHALL MAINTAIN THE SILT FENCE UNTIL THE FENCE IS REMOVED OR UNTIL THE PROJECT IS ACCEPTED. THE FABRIC SHOULD BE CHECKED FOR RIPS, TEARS, AND OTHER TYPES OF DETERIORATION AND REPLACED AS NEEDED. SEDIMENT DEPOSITS SHALL BE REMOVED WHEN THE DEPOSIT REACHES APPROXIMATELY ONE HALF THE HEIGHT OF THE SILT FENCE. WHEN PERMANENT SOIL EROSION CONTROL IS ACHIEVED, THE FENCE SHALL BE REMOVED AND THE ACCUMULATED SEDIMENT SPREAD AND SEEDED.

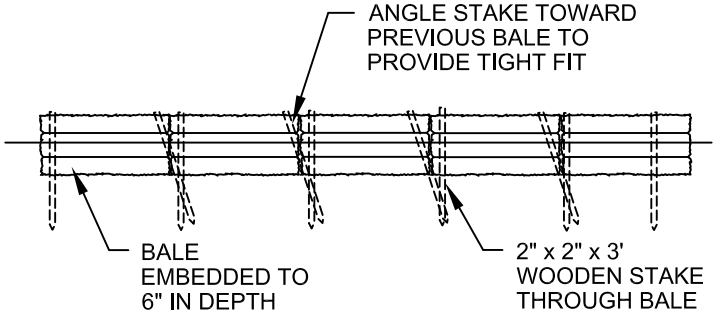
NOT TO SCALE

EROSION CONTROL SILT FENCE DETAIL

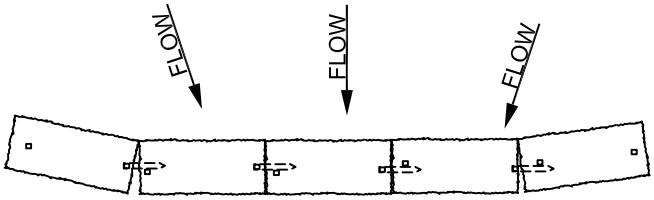
DWG. NO. 01560-3.05a

CITY of SHERIDAN

NOVEMBER 2015



SECTION



PLAN

DITCH CHECK

NOTES:

1. EROSION CONTROL BALES ARE USED AS FILTERS ALONG THE TOES OF FILLS, AROUND DRAINAGE INLETS, AND AS EROSION CHECKS IN DITCHES. DUE TO THEIR LOW POROSITY AND WEIGHT PER UNIT VOLUME, USE OF EROSION CONTROL BALES SHOULD BE LIMITED TO SITUATIONS WHERE EXPECTED STORM FLOW VOLUMES ARE LOW.
2. EROSION CONTROL BALES SHALL BE STRAW OR HAY AND CERTIFIED WEED FREE. EROSION CONTROL BALES SHALL BE PLACED SO THAT THEY ARE BUTTED TIGHTLY TOGETHER. THE BALES SHALL BE BURIED TO 6-INCHES IN DEPTH AND THE SOIL COMPACTED AROUND THE BALES. BALES SHALL BE FURTHER ANCHORED WITH 2"x2"x3' WOODEN STAKES. EROSION CONTROL BALES IN DITCH LINES SHOULD BE EXTENDED A SUFFICIENT LENGTH SO THAT THE ELEVATION OF THE BALES IS 2 FT ABOVE THE ANTICIPATED HIGH WATER LINE. THESE CONSTRUCTION PRACTICES SHALL BE FULLY CARRIED OUT TO ENSURE THAT WATER IS NOT ALLOWED TO FLOW BETWEEN, AROUND, OR UNDERNEATH THE BALES.
3. EROSION CONTROL BALES REQUIRE FREQUENT INSPECTION, AS THEY DETERIORATE QUICKLY AND MAY NEED TO BE REPLACED. WHEN NO LONGER NEEDED, THE ACCUMULATED SEDIMENT SHALL BE SPREAD, SEEDED AND MULCHED WITH THE REMAINING STRAW OR HAY FROM THE EROSION CONTROL BALES.

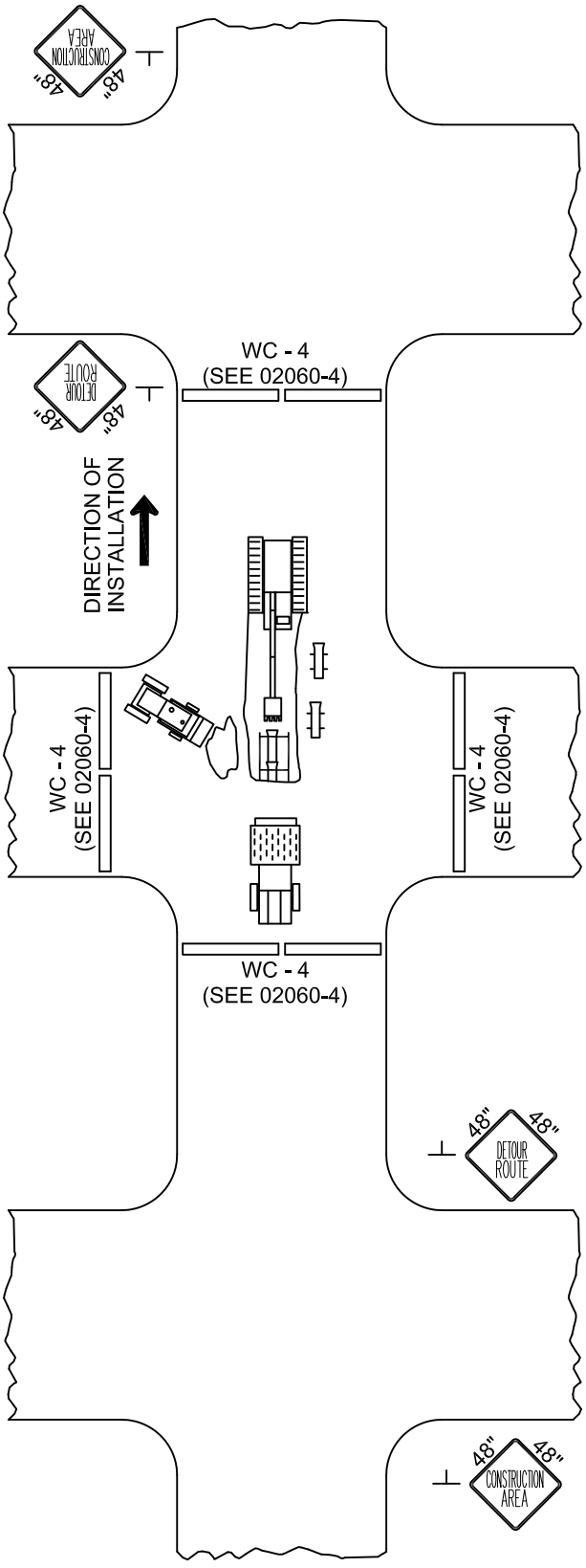
NOT TO SCALE

EROSION CONTROL
BALES DETAIL

DWG. NO. 01560-3.05b

CITY of SHERIDAN

NOVEMBER 2015



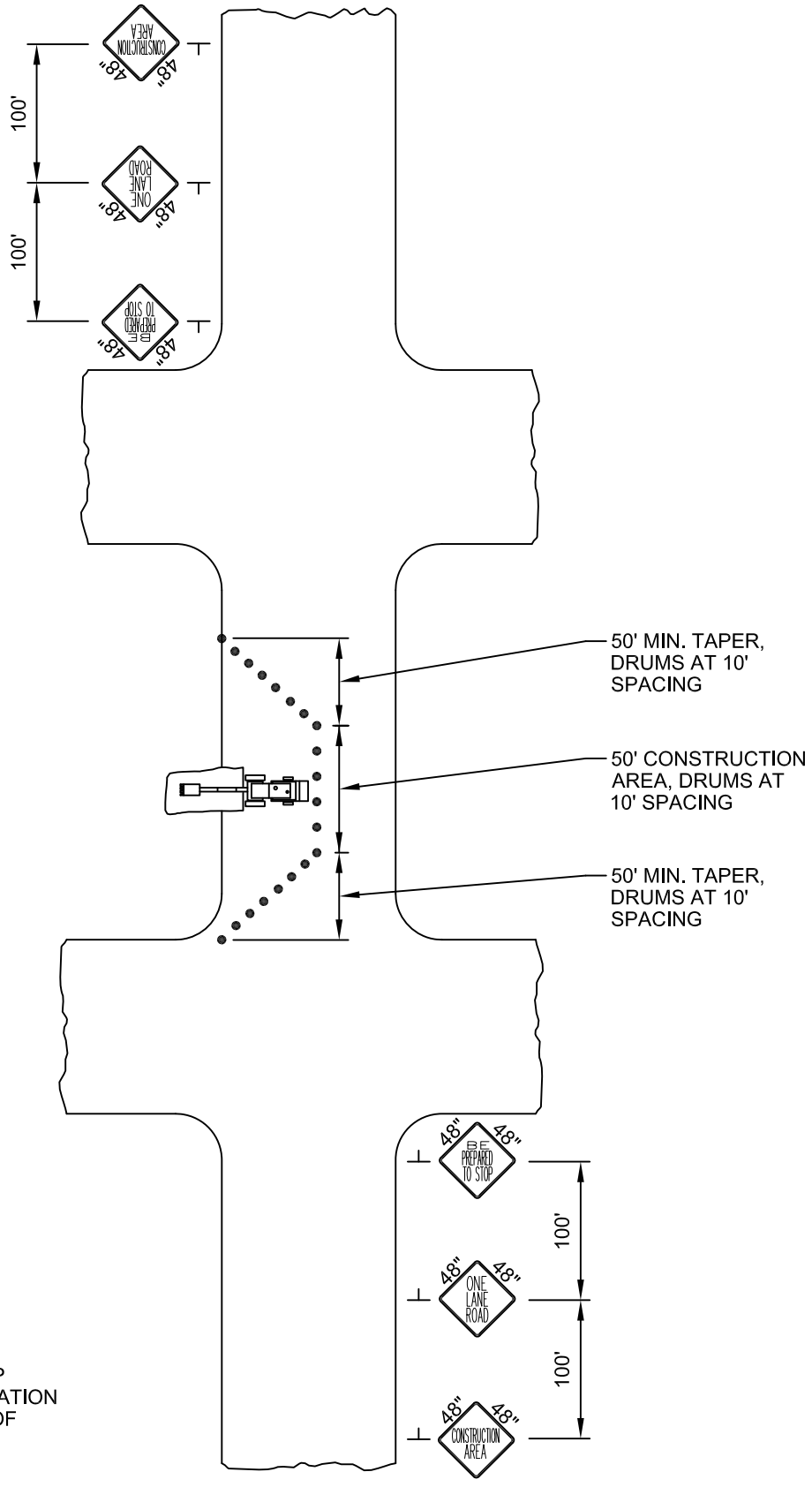
NOT TO SCALE

TYPICAL STREET BARRICADE SETUP DETAIL

DWG. NO.	02060-1

CITY of SHERIDAN

NOVEMBER 2015



NOTE:

FOR USE ONLY WHEN SETUP IS LESS THAN 8 HOURS DURATION AND ONLY DURING HOURS OF DAYLIGHT.

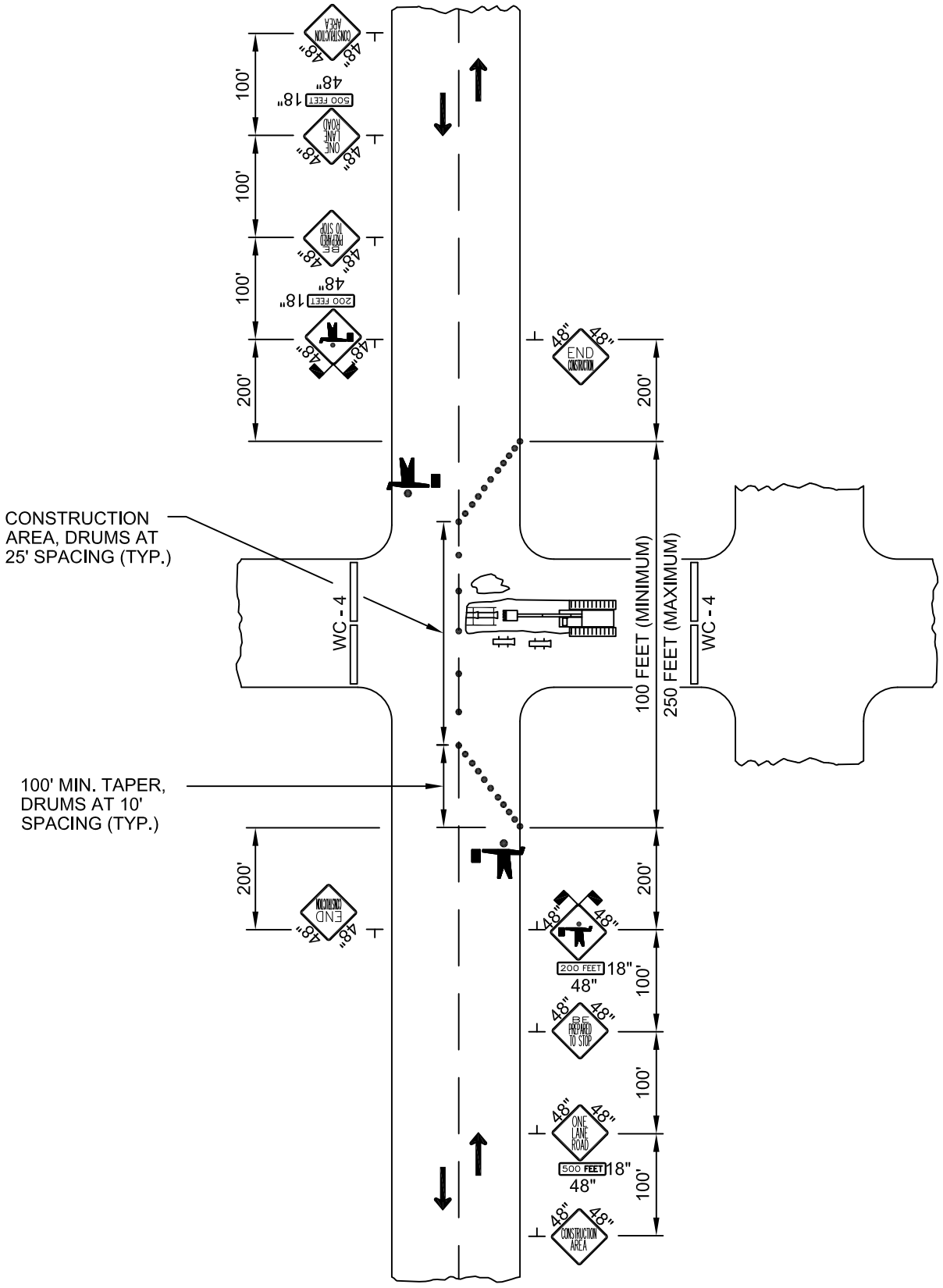
NOT TO SCALE

TYPICAL TRAFFIC CONTROL FOR LANE CLOSURE ON LOCAL STREETS DETAIL

DWG. NO. 02060-2

CITY of SHERIDAN

NOVEMBER 2015



NOT TO SCALE

TYPICAL TRAFFIC CONTROL FOR LANE CLOSURE ON ARTERIAL STREETS DETAIL

DWG. NO. 02060-3

CITY of SHERIDAN

NOVEMBER 2015

NOT TO SCALE

TYPICAL STREET CLOSURE AND BARRICADE SETUP DETAIL

DWG. NO.	02060-4

CITY of SHERIDAN

NOVEMBER 2015

GENERAL NOTES FOR PLACEMENT
AND USAGE OF CONSTRUCTION
TRAFFIC CONTROL DEVICES

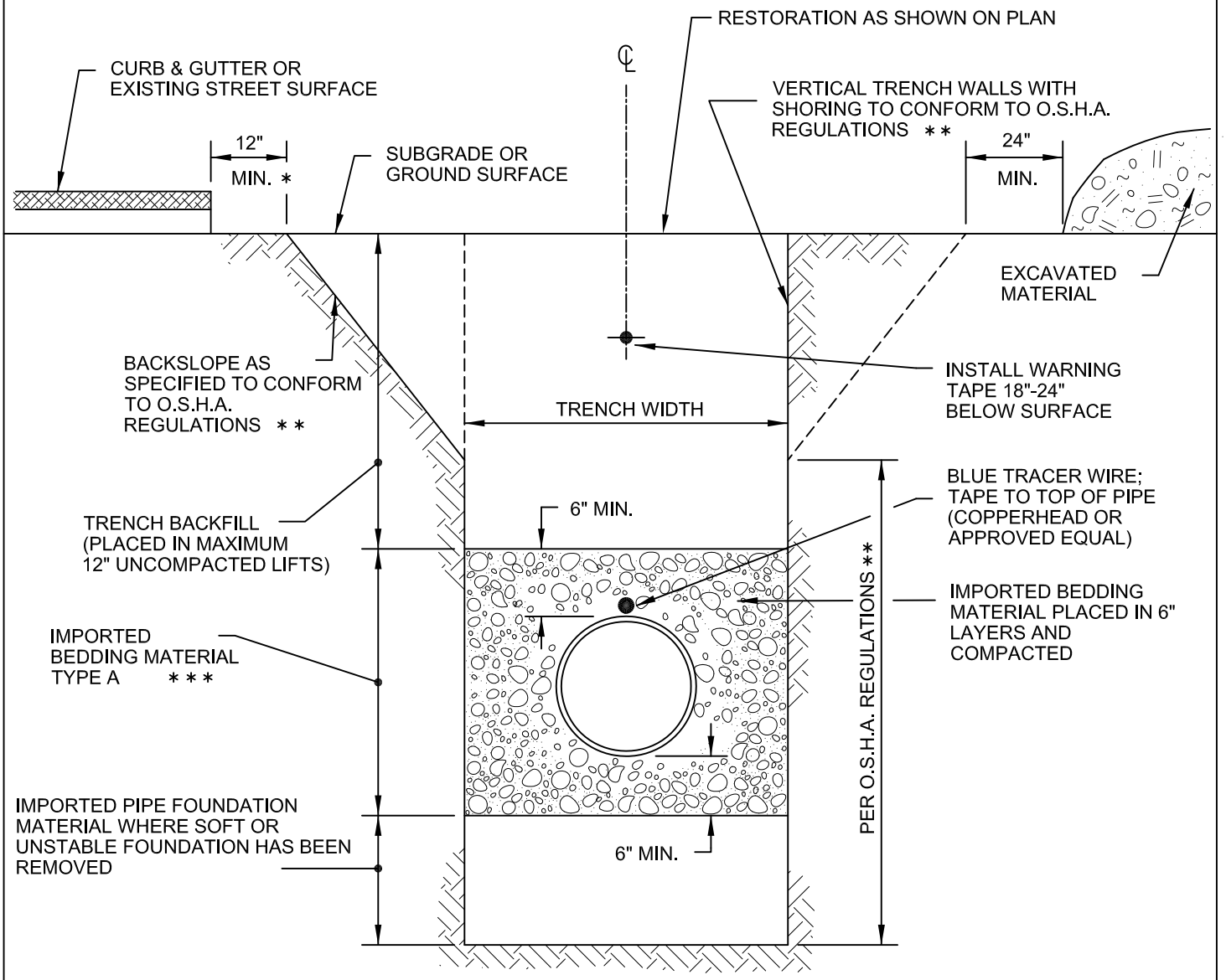
1. WORK ACTIVITY ON OR ADJACENT TO THE TRAVELED WAY THAT MAY AFFECT THE TRAVELING PUBLIC OR WORKERS SHALL NOT COMMENCE UNTIL ALL NECESSARY CONSTRUCTION TRAFFIC CONTROL DEVICES ARE IN PLACE AND APPROVED BY THE ENGINEER. (CONSTRUCTION TRAFFIC CONTROL DEVICES SHALL INCLUDE SIGNS, BARRICADES, CHANNELIZING DEVICES, STRIPING, ETC.)
2. ALL SIGNS SHALL BE STAND-MOUNTED AND KEPT CLEAN, LEGIBLE AND MAINTAIN REFLECTIVITY.
3. FLASHERS SHALL BE INSTALLED AND IN WORKING ORDER ON ALL WC-4S AND BARRELS.
4. ONLY TWO BLOCKS SHALL BE CLOSED AT A TIME UNLESS APPROVED BY THE CITY OF SHERIDAN
5. ALL CONSTRUCTION SITES SHOULD BE CHECKED PERIODICALLY, DAY AND NIGHT, TO ENSURE ADEQUATE TRAFFIC CONTROL.
6. ALL CONSTRUCTION TRAFFIC CONTROL DEVICE SPACING IS APPROXIMATE AND SHOULD BE ADJUSTED TO FIT FIELD CONDITIONS. ROADWAY CONDITIONS, OBSTACLES, GEOMETRICS AND PERMANENT SIGNING SHOULD BE CONSIDERED IN PLACEMENT OF CONSTRUCTION SIGNS AND / OR FLAGGERS, TO PROVIDE MAXIMUM VISIBILITY OF WARNING DEVICES TO ONCOMING MOTORISTS.
7. ADDITIONAL CONSTRUCTION TRAFFIC CONTROL DEVICES MAY BE ADDED AS CONDITIONS WARRANT.
8. ALL CONSTRUCTION TRAFFIC CONTROL DEVICES REQUIRED FOR THE CONSTRUCTION PROJECT SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. REPLACEMENT DEVICES SHALL BE AVAILABLE AS REQUIRED. DEVICES SHALL BE MAINTAINED IN A STATE OF GOOD REPAIR BY THE CONTRACTOR.
9. ALL CONSTRUCTION TRAFFIC CONTROL DEVICES REQUIRED, INCLUDING ALL POSTS AND SIGNS, SHALL COMPLY WITH ALL REQUIREMENTS OF THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
10. EXISTING TRAFFIC CONTROL DEVICES CONFLICTING WITH THESE TRAFFIC CONTROL PLANS SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER AND RETURNED TO THEIR PREVIOUS LOCATIONS AS NEEDED. (NOT A PAY ITEM; SUBSIDIARY TO OTHER CONTRACT ITEMS.)
11. CONSTRUCTION TRAFFIC CONTROL DEVICES SHALL BE REMOVED OR COVERED WHEN NOT NEEDED.
12. PORTABLE SIGN SUPPORTS AND BARRICADES TURNED AWAY FROM THE ROADWAY AND NOT REMOVED AT LEAST 30 FEET FROM THE EDGE OF THE TRAVELED WAY SHALL HAVE A TYPE II OBJECT MARKER VISIBLE TO ALL APPROACHING TRAFFIC.
13. WHEN CONSTRUCTION CEASES DURING THE WINTER, ANY CONSTRUCTION TRAFFIC CONTROL DEVICES, INCLUDING POSTS UNNEEDED AT THIS TIME, SHALL BE REMOVED. REQUIRED DEVICES SHALL BE MAINTAINED THROUGHOUT THE WINTER.
14. ALL CONSTRUCTION MATERIALS AND EQUIPMENT SHALL BE STORED IN AREAS AS FAR FROM THE USABLE TRAVELED WAY AS POSSIBLE (30 FEET MINIMUM).
15. ADDITIONAL WARNING LIGHTS MAY BE REQUIRED ON CONSTRUCTION TRAFFIC CONTROL DEVICES FOR ADDITIONAL EMPHASIS AT NIGHT. ONLY STEADY BURN WARNING LIGHTS SHALL BE USED ON TAPERS. DRUMS WITH ARROWS SHALL BE USED ON TAPERS, AND DRUMS WITHOUT ARROWS SHALL BE USED ON TANGENTS. SIGNS AND CHANNELIZING DEVICES SHALL BE REFLECTORIZED WHEN USED AT NIGHT.
16. ADDITIONAL FLAGGERS MAY BE UTILIZED AT THE DISCRETION OF THE CONTRACTOR. ADDITIONAL WARNING SIGNS FOR THE FLAGGERS SHALL THEN BE INSTALLED. LIGHTING SHALL BE PROVIDED IF FLAGGERS ARE UTILIZED DURING HOURS OF DARKNESS.
17. ALL DRUMS USED FOR TEMPORARY TRAFFIC CONTROL SHALL BE PLASTIC AND MEET ALL REQUIREMENTS OF THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
18. IN URBAN AREAS, PEDESTRIAN SAFETY AND MOVEMENTS SHALL BE CONSIDERED WHEN PLACING TRAFFIC CONTROL DEVICES.
19. THE ENGINEER RESERVES THE RIGHT TO ADD, DELETE OR MODIFY ANY CONSTRUCTION TRAFFIC CONTROL DEVICE OR SETUPS AS REQUIRED TO COMPLY WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND TO PROVIDE FOR THE SAFETY OF TRAVELING MOTORISTS OR PEDESTRIANS.
20. ANY ADDITIONS OR MODIFICATIONS TO TRAFFIC CONTROL WILL BE CONSIDERED SUBSIDIARY TO THE BID ITEM.

TRAFFIC CONTROL
GENERAL NOTES

DWG. NO. 02060-5

CITY of SHERIDAN

NOVEMBER 2015



NOTES:

* WHERE TRENCH PASSES THROUGH EXISTING PAVEMENT, THE PAVEMENT SHALL BE CUT ALONG A NEAT, VERTICAL LINE A MIN. OF 12" FROM THE EDGE OF THE TRENCH OPENING. WHERE NEAT LINE IS LESS THAN 3' FROM EDGE OF EXISTING PAVEMENT OR CURB & GUTTER SECTION, REMOVE AND REPLACE ENTIRE PAVEMENT SECTION BETWEEN TRENCH AND EDGE OF PAVEMENT OR CURB & GUTTER SECTION.

** SEE O.S.H.A. SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION, SECTION 1926.652. TRENCH WALLS SHALL BE IN COMPLIANCE WITH THE CURRENT O.S.H.A. REQUIREMENTS.

*** SEE SPECIFICATIONS (SECTION 02221).

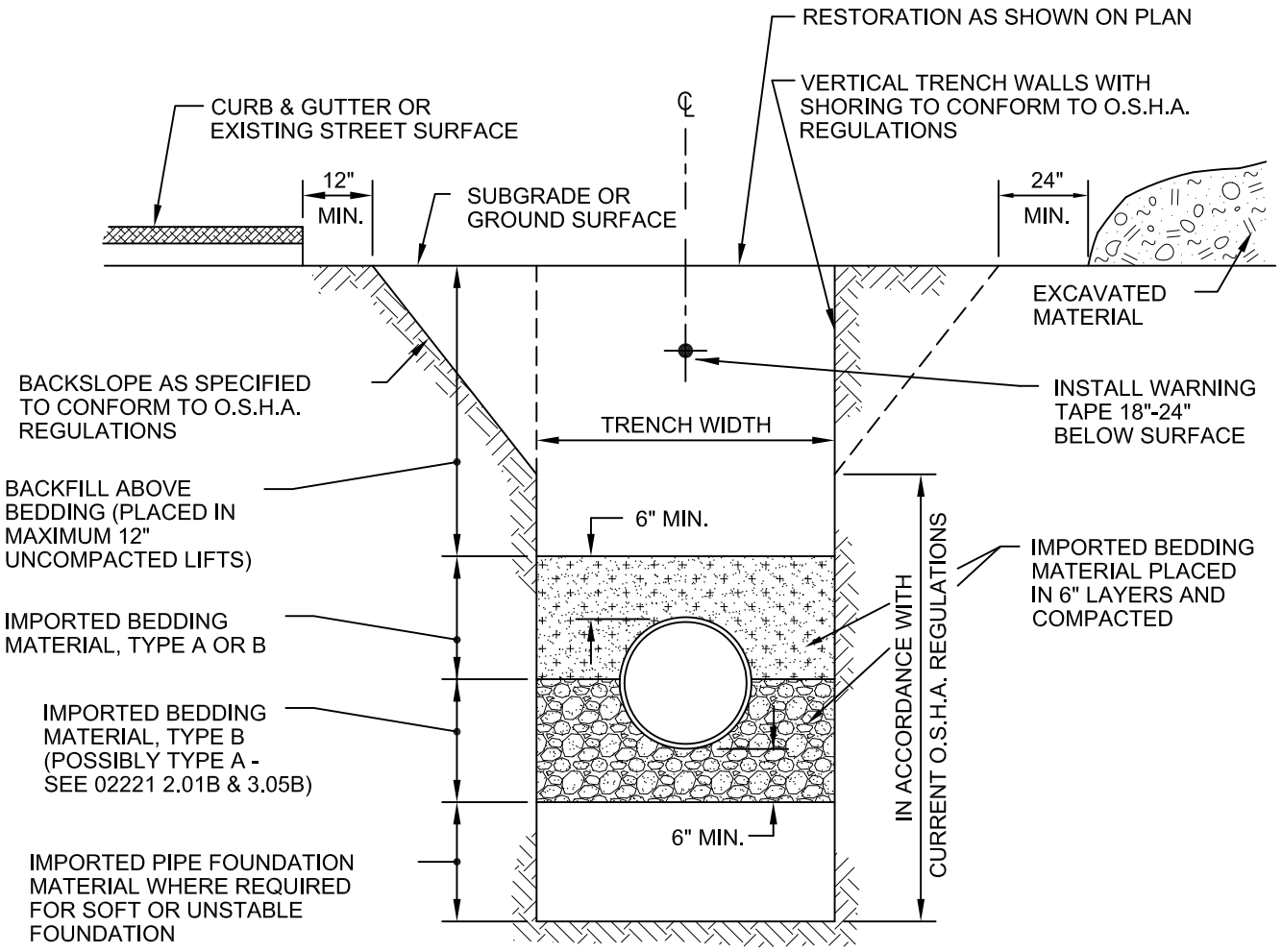
NOT TO SCALE

TYPICAL WATER MAIN TRENCH DETAIL

DWG. NO. 02221-2.01Ba

CITY of SHERIDAN

NOVEMBER 2015



NOTES:

1. THE TRENCH BOTTOM SHALL BE FREE FROM LARGE STONES, DIRT CLODS, AND ANY FROZEN MATERIAL PRIOR TO PLACING PIPE.
2. BELL HOLES SHALL BE PROVIDED TO ENSURE A UNIFORMLY SUPPORTED PIPE.
3. PIPE BEDDING SHALL BE PER SPECIFICATIONS (02221).
4. ROLLING EQUIPMENT MAY BE USED WHEN 18" OF FILL HAS BEEN PLACED ABOVE THE PIPE.
5. COMPLY W/ ALL CURRENT O.S.H.A. REGULATIONS FOR TRENCH EXCAVATION.
6. WHERE TRENCH PASSES THROUGH EXISTING PAVEMENT, THE PAVEMENT SHALL BE CUT ALONG A NEAT, VERTICAL LINE A MIN. OF 12" FROM THE EDGE OF THE TRENCH OPENING. WHERE NEAT LINE IS LESS THAN 3' FROM EDGE OF EXISTING PAVEMENT OR CURB & GUTTER SECTION, REMOVE AND REPLACE ENTIRE PAVEMENT SECTION BETWEEN TRENCH AND EDGE OF PAVEMENT OR CURB & GUTTER SECTION.

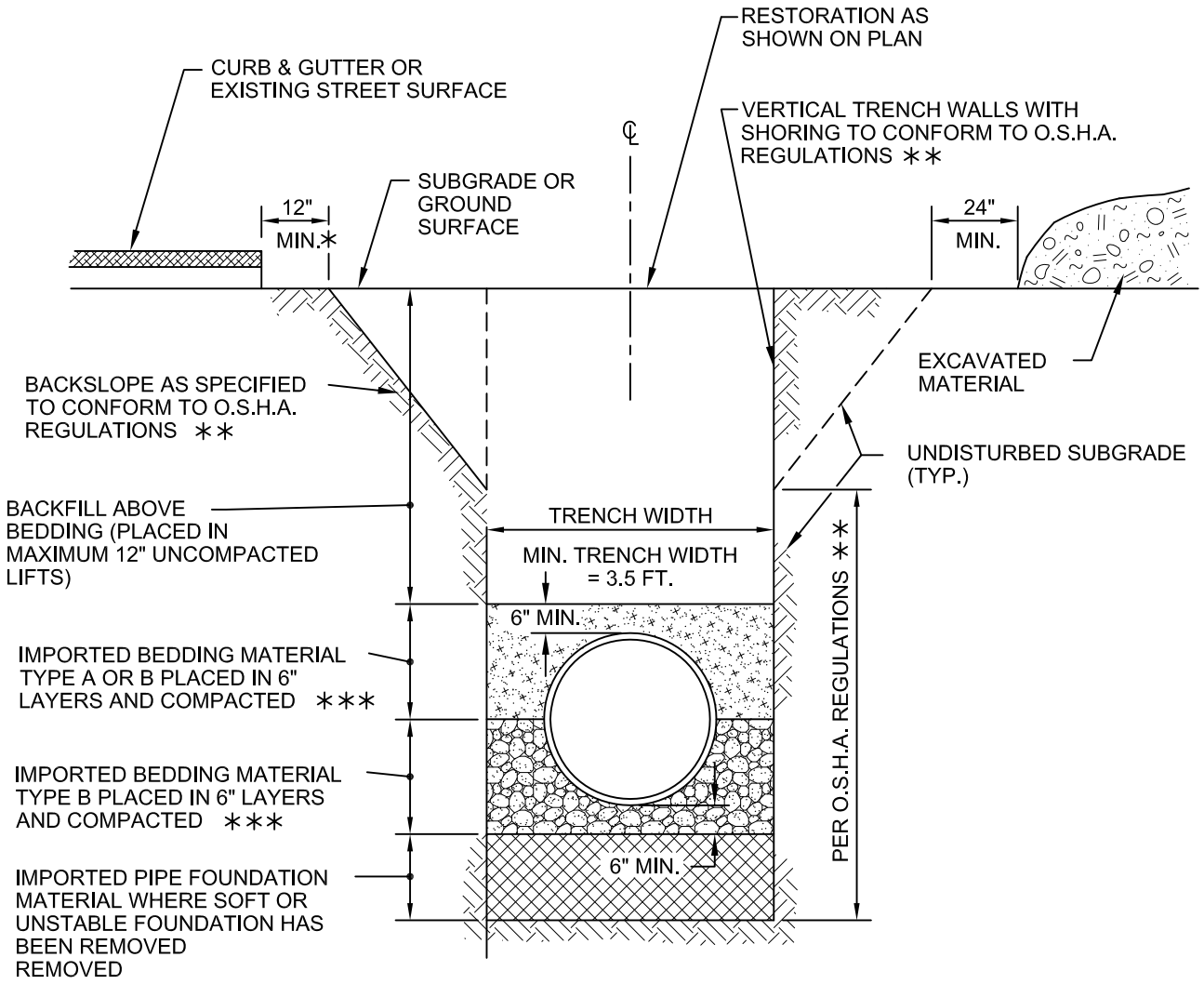
NOT TO SCALE

TYPICAL SANITARY SEWER TRENCH DETAIL

DWG. NO. 02221-2.01Bb

CITY of SHERIDAN

NOVEMBER 2015



NOTES:

* WHERE TRENCH PASSES THROUGH EXISTING PAVEMENT, THE PAVEMENT SHALL BE CUT ALONG A NEAT, VERTICAL LINE A MIN. OF 12" FROM THE EDGE OF THE TRENCH OPENING. WHERE NEAT LINE IS LESS THAN 3' FROM EDGE OF EXISTING PAVEMENT OR CURB & GUTTER SECTION, REMOVE AND REPLACE ENTIRE PAVEMENT SECTION BETWEEN TRENCH AND EDGE OF PAVEMENT OR CURB & GUTTER SECTION.

** SEE O.S.H.A. SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION, SECTION 1926.652. TRENCH WALLS SHALL BE IN COMPLIANCE WITH THE CURRENT O.S.H.A. REQUIREMENTS.

*** NATIVE BEDDING MATERIAL MAY BE USED FOR RCP STORM DRAINS, IF ALLOWED BY THE SPECIAL PROVISIONS. TYPE A BEDDING MAY POSSIBLY BE USED (SEE 02221 2.01B & 3.05B).

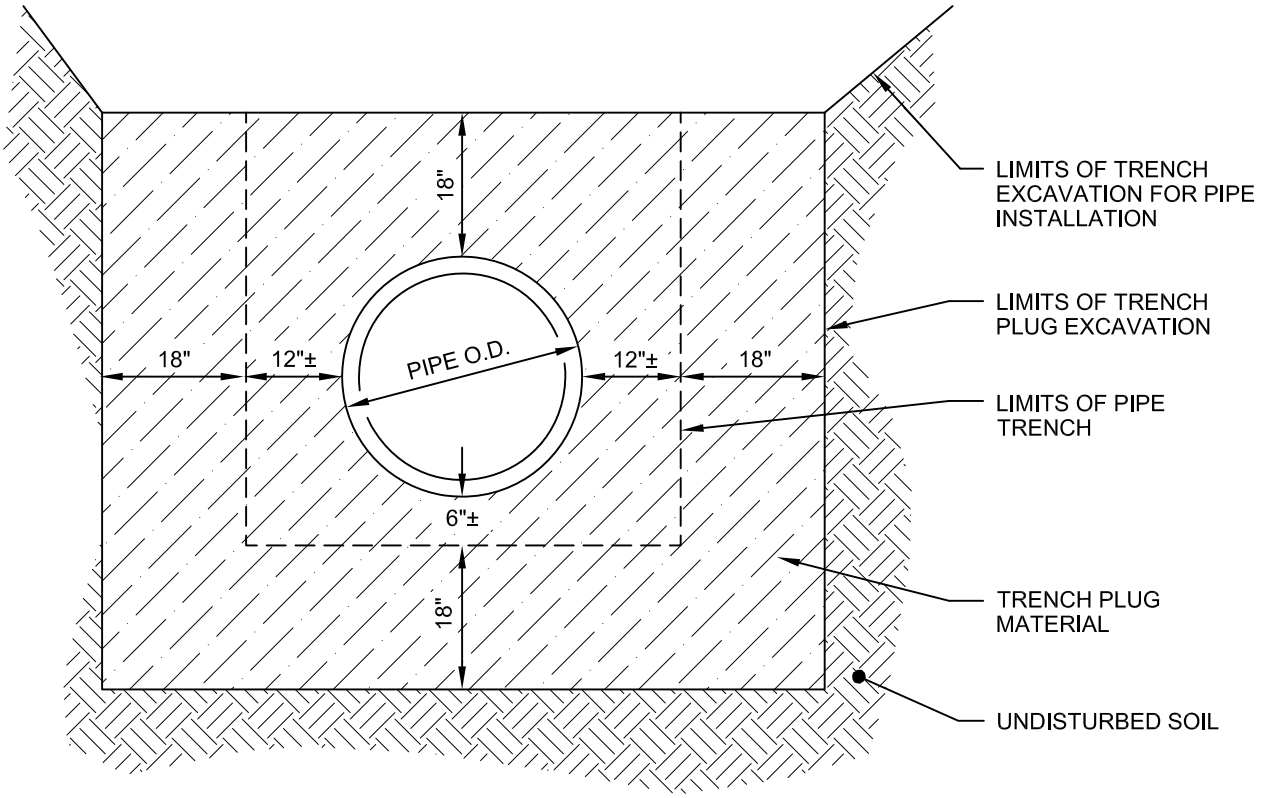
NOT TO SCALE

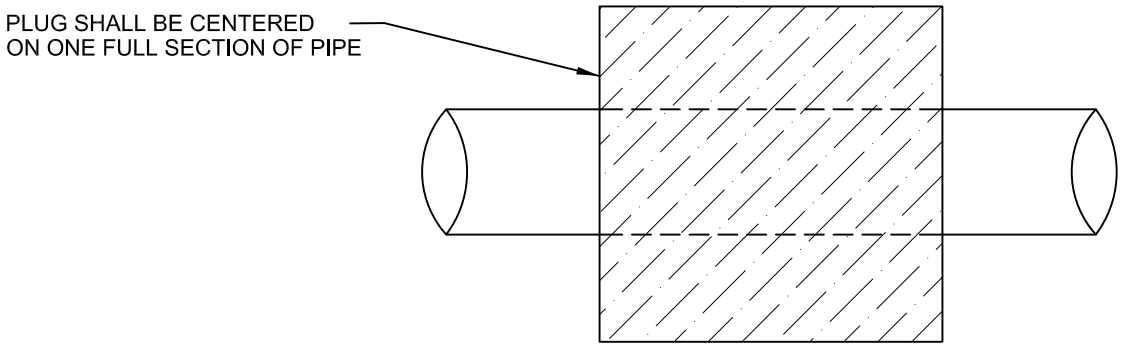
TYPICAL STORM DRAIN TRENCH DETAIL

DWG. NO. 02221-2.01Bc

CITY of SHERIDAN

NOVEMBER 2015





NOTES:

1. TRENCH PLUG SHALL BE 4 FEET LONG (MIN.) AND INSTALLED AT 200 FOOT INTERVALS, UNLESS REQUESTED OTHERWISE BY THE ENGINEER.

2. TRENCH PLUG MATERIAL IS TO COMPLY WITH SPECIFICATION 02221 2.01E.

3. TRENCH PLUG MATERIAL IS TO BE PLACED AT A MIN. OF 95% MAX. DRY DENSITY (ASTM D698) AT 1% - 3% ABOVE OPTIMUM MOISTURE.

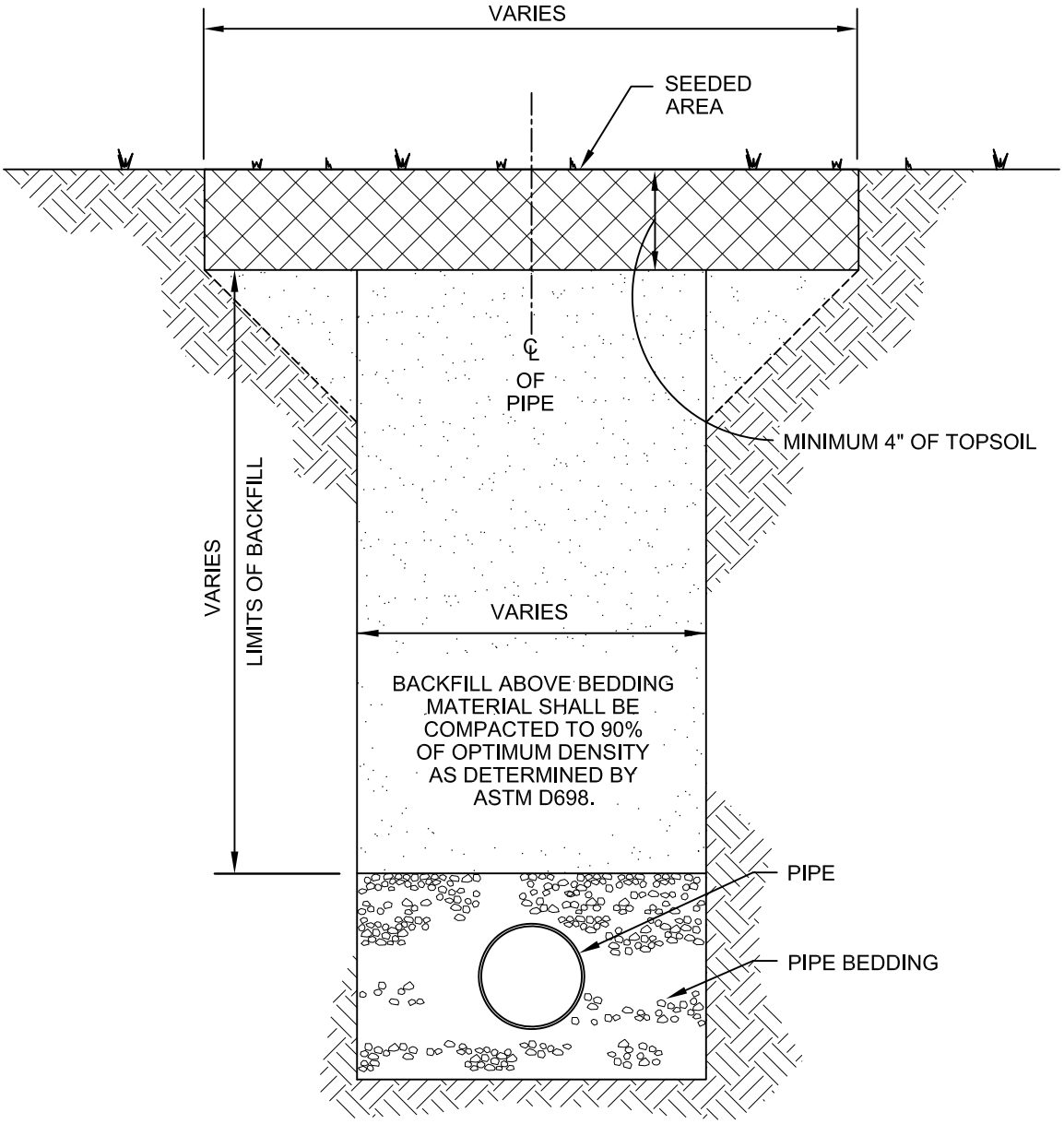
NOT TO SCALE

TRENCH PLUG DETAIL

DWG. NO. 02221-2.01E

CITY of SHERIDAN

NOVEMBER 2015



FOR REQUIREMENTS OF SEED MIXTURE AND APPLICATION SEE SPECIFICATION 02480.

NOTES:

1. THIS RESTORATION WILL BE REQUIRED ON ALL DISTURBED AREAS THAT WILL NOT BE COVERED WITH SOD OR OTHER SURFACING.
2. ROCKS LARGER THAN 2" CANNOT BE PLACED WITHIN TOPSOIL.

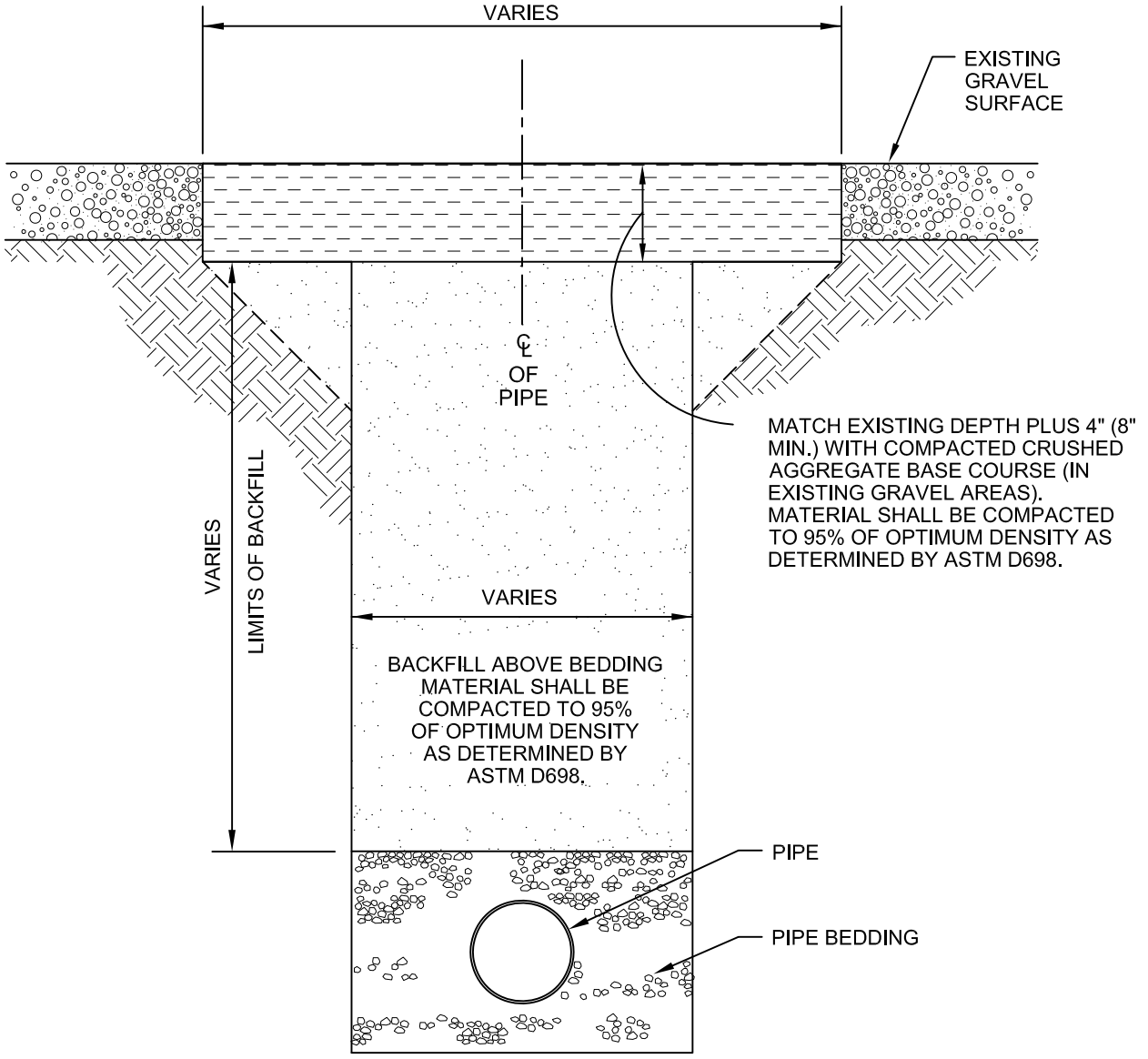
NOT TO SCALE

RESTORATION - OPEN AREAS DETAIL

DWG. NO. 02221-3.09A

CITY of SHERIDAN

NOVEMBER 2015



NOTE: REQUIRED WITHIN ANY ROAD R.O.W. OR OTHER AREA WITH GRAVEL SURFACING.

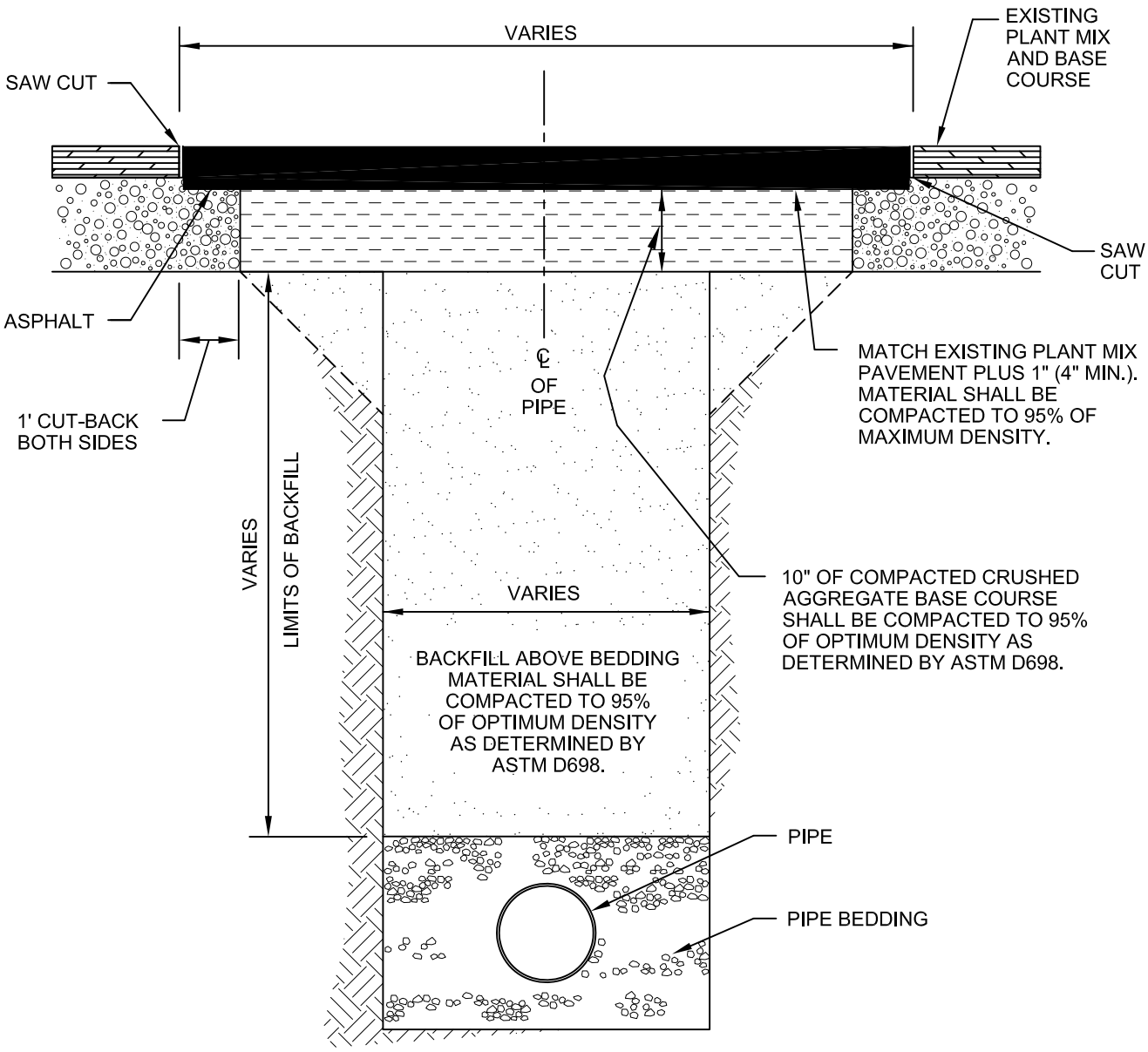
NOT TO SCALE

RESTORATION - GRAVEL SURFACES DETAIL

DWG. NO. 02221-3.09B

CITY of SHERIDAN

NOVEMBER 2015



NOTE: THIS RESTORATION WILL BE REQUIRED ON ALL PRIVATE ROADWAYS, COUNTY ROADS, CITY STREETS, PARKING AREAS, AND STATE HIGHWAYS WITH AN EXISTING ASPHALT SURFACE.

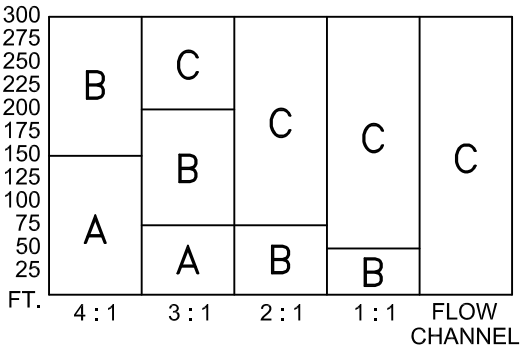
NOT TO SCALE

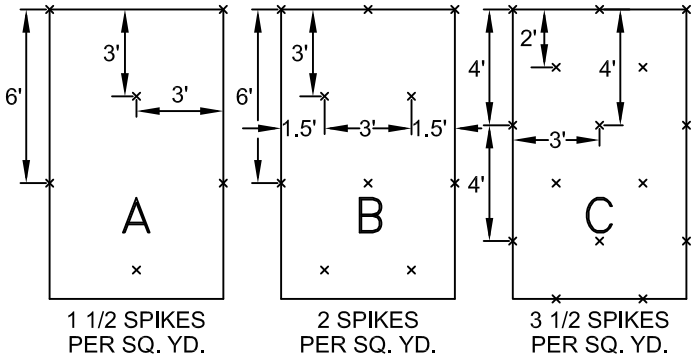
RESTORATION - ASPHALT PAVEMENT DETAIL

DWG. NO. 02221-3.09C

CITY of SHERIDAN

NOVEMBER 2015

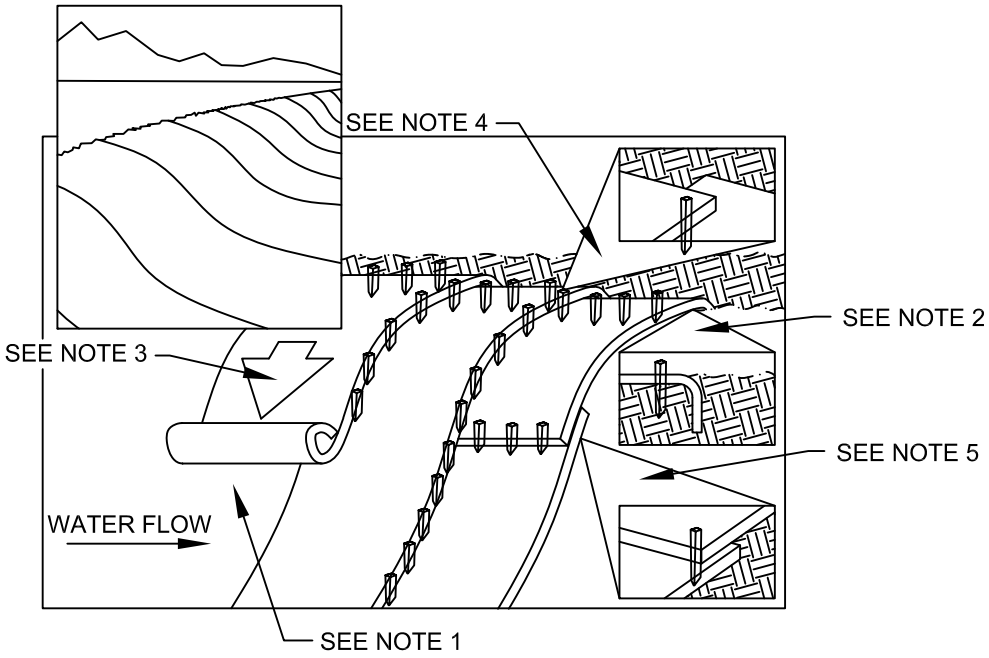




DETAIL 2: EROSION CONTROL BLANKET
SPIKE PATTERN GUIDE (MINIMUM)

NOTES:

1. PREPARE SOIL BEFORE INSTALLING BLANKET, INCLUDING APPLICATION OF FERTILIZER AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 12" DEEP x 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER SPIKING.
3. ROLL THE BLANKET DOWN THE SLOPE IN THE DIRECTION OF THE WATER FLOW.
4. THE EDGES OF PARALLEL BLANKET MUST BE SPIKED WITH APPROXIMATELY 3" OVERLAP.
5. WHEN BLANKET MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKET END-OVER-END (SHINGLE STYLE) WITH APPROXIMATELY 6" OVERLAP. SPIKE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART.
6. USE WOODEN (BIODEGRADABLE) SPIKES.
7. FOR SPIKE PATTERN GUIDE FOR SLOPE INSTALLATIONS, SEE DETAIL 2. SPIKE PATTERNS ARE A MINIMUM.



DETAIL 1: EROSION CONTROL BLANKET

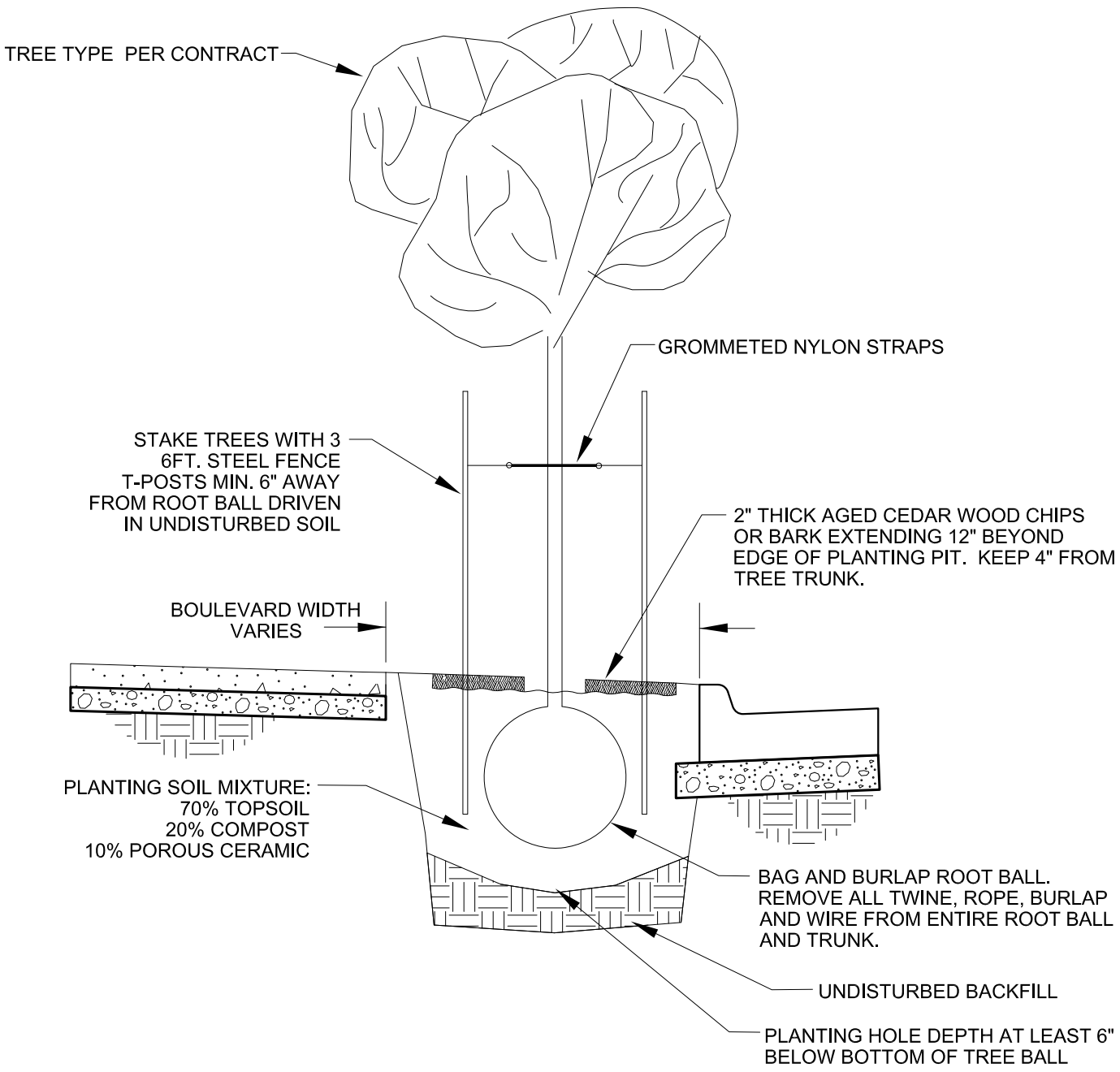
NOT TO SCALE

EROSION CONTROL BLANKET DETAILS

DWG. NO. 02480-2.05

CITY of SHERIDAN

NOVEMBER 2015



NOTES:
1. ALL TREES PLANTED SHALL BE SUITABLE FOR USDA HARDINESS ZONE 4.
2. REFERENCE SPECIFICATIONS FOR PROPER TREE INSTALLATION.

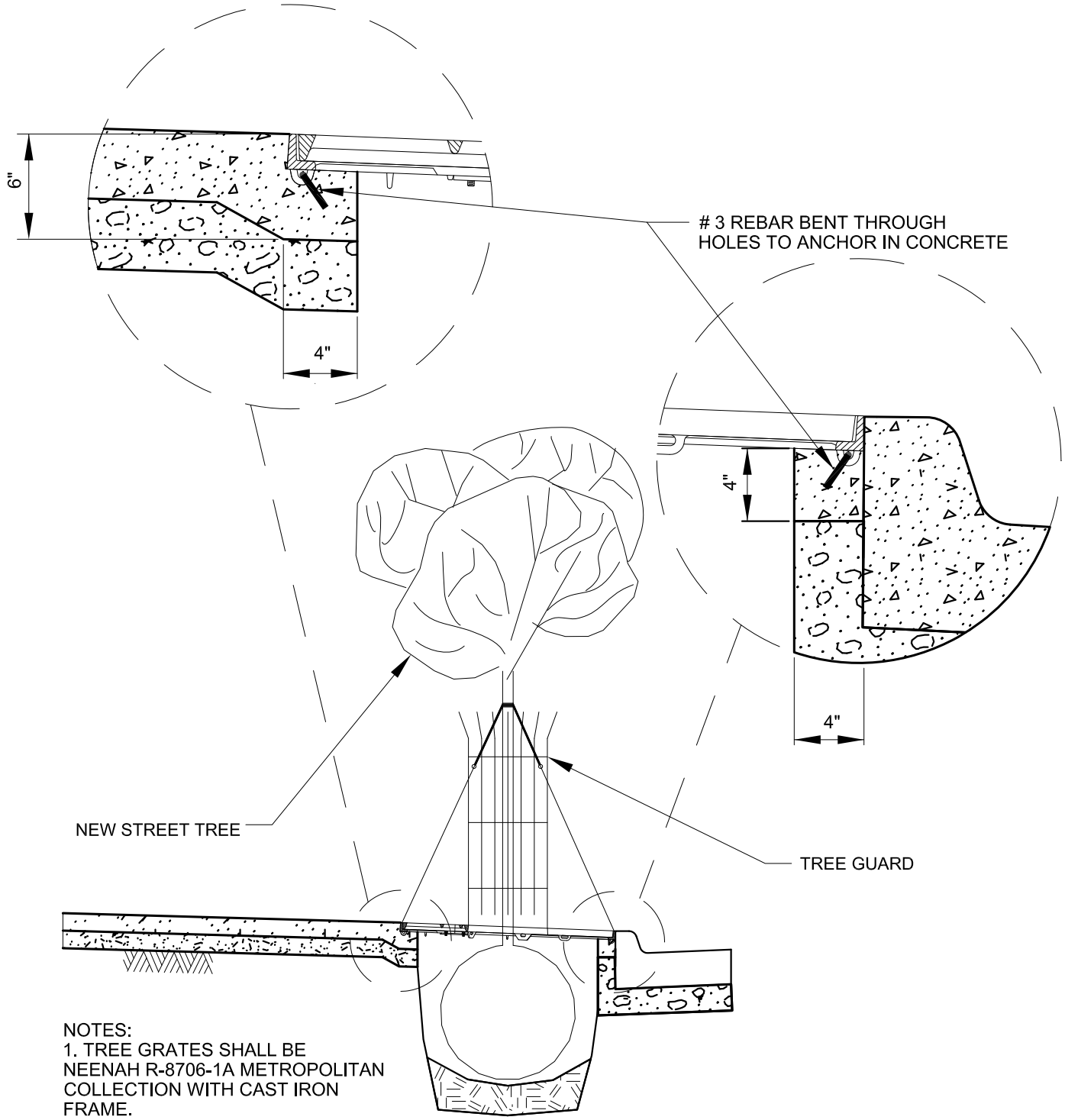
NOT TO SCALE

TREE PLANTING DETAIL

DWG. NO. 02490-3.02A

CITY of SHERIDAN

NOVEMBER 2015



NOTES:
1. TREE GRATES SHALL BE NEENAH R-8706-1A METROPOLITAN COLLECTION WITH CAST IRON FRAME.
2. TREE GUARD STYLE TO BE DETERMINED BY OWNER.
3. REFERENCE SPECIFICATIONS FOR PROPER TREE INSTALLATION.

NOT TO SCALE

TREE GRATE DETAIL

DWG. NO. 02490-3.02C

CITY of SHERIDAN

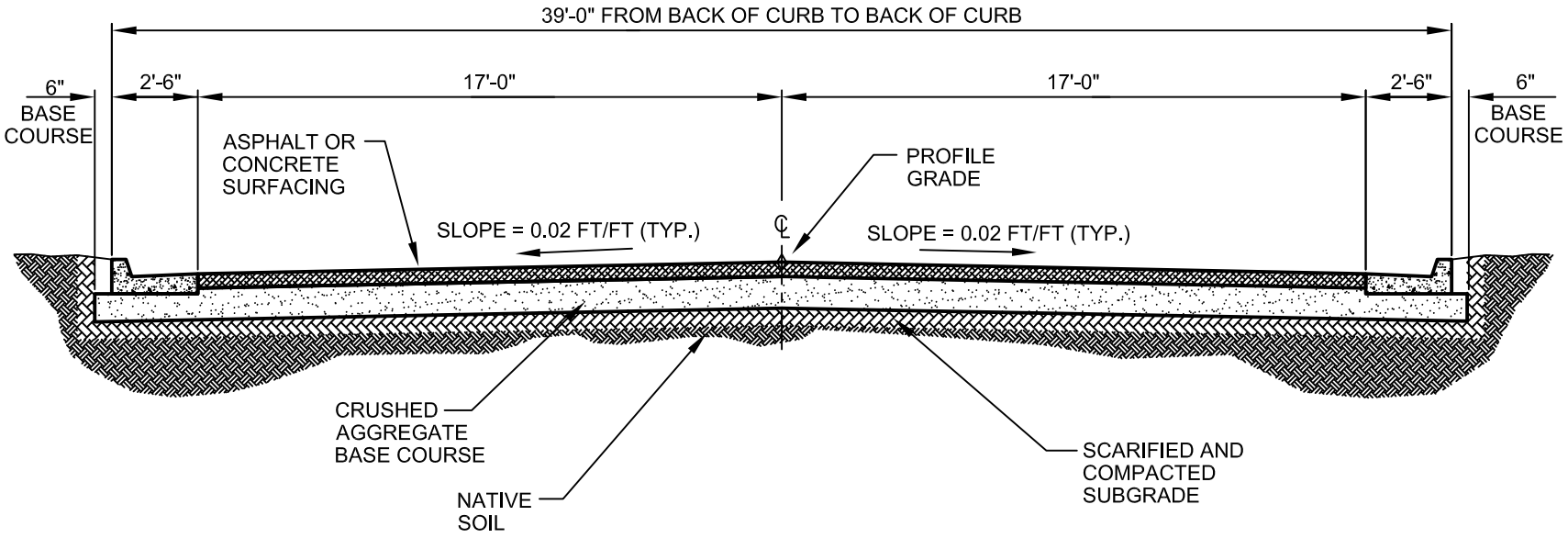
NOVEMBER 2015

TYPICAL STREET CROSS SECTION DETAIL

NOTES:

1. TYPICAL SECTION SHOWN IS 39' FROM BACK OF CURB TO BACK OF CURB, WHICH IS USED ON MOST MINOR COLLECTORS AND LOCAL STREETS. SEE DRAWINGS FOR PROJECT-SPECIFIC CHANGES.

2. SEE DRAWINGS OR SPECIAL PROVISIONS FOR TYPE OF SURFACING, THICKNESS OF SURFACING, AND THICKNESS OF CRUSHED AGGREGATE BASE COURSE.



TYPICAL STREET CROSS SECTION

NO SCALE

CITY of SHERIDAN

NOVEMBER 2015

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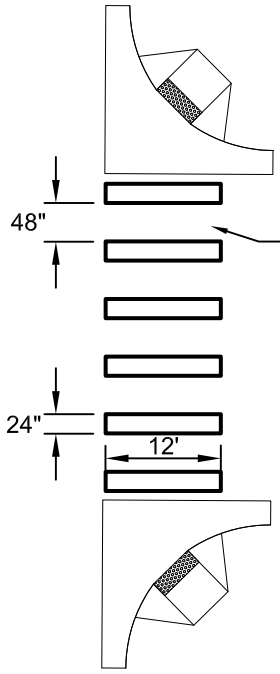
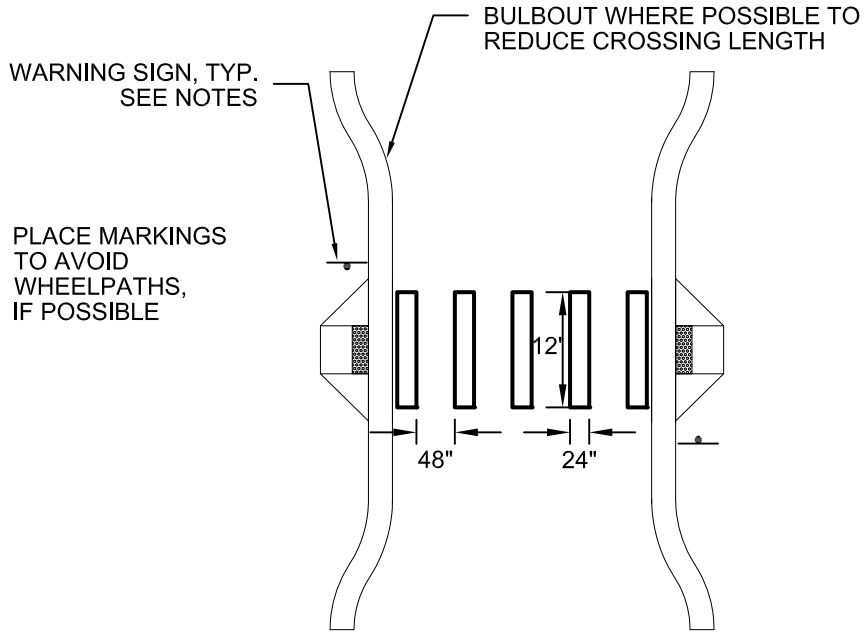


INTERSECTION
TYPICAL LAYOUT



MID-BLOCK
TYPICAL LAYOUT

NOTES:

1. THE FOLLOWING MEASURES ARE RECOMMENDED AT MID-BLOCK CROSSINGS BECAUSE THEY ARE NOT TYPICALLY EXPECTED BY ROADWAY USERS: PARKING PROHIBITIONS AND WARNING SIGNS TO INCREASE VISIBILITY; BULBOUTS OR SIMILAR GEOMETRIC MODIFICATIONS TO REDUCE THE CROSSWALK LENGTH.
2. SEE 02605-3.01d and 02605-3.01e AND SPECIFICATION SECTION 02605 FOR WARNING SIGN DETAILS.

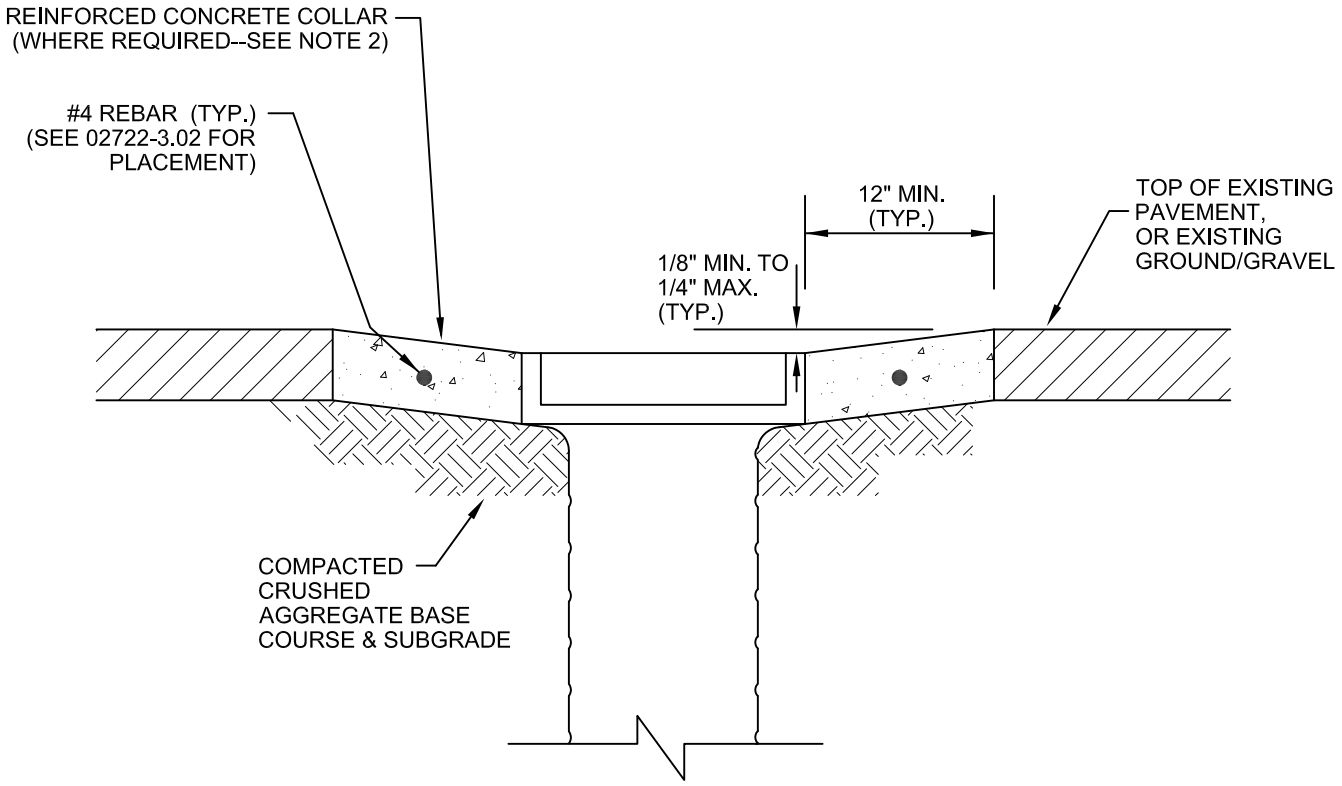
NOT TO SCALE

PEDESTRIAN CROSSWALK DETAIL

DWG. NO.	02530-3.04

CITY of SHERIDAN

NOVEMBER 2015



NOTES:

1. ADJUST WATER VALVE BOXES UPWARD OR DOWNWARD AS REQUIRED.

2. WHERE REQUIRED, CONCRETE COLLAR TO BE PLACED AS SHOWN AND AS PER DWG. NO. 02722-3.02. SEE STANDARD SPECIFICATION SECTION 02570 FOR GUIDELINES ON CONCRETE COLLAR REQUIREMENTS.

3. NO ADDITIONAL PAYMENT SHALL BE MADE FOR ADJUSTMENT OF NEW VALVE BOXES TO FINAL GRADE.

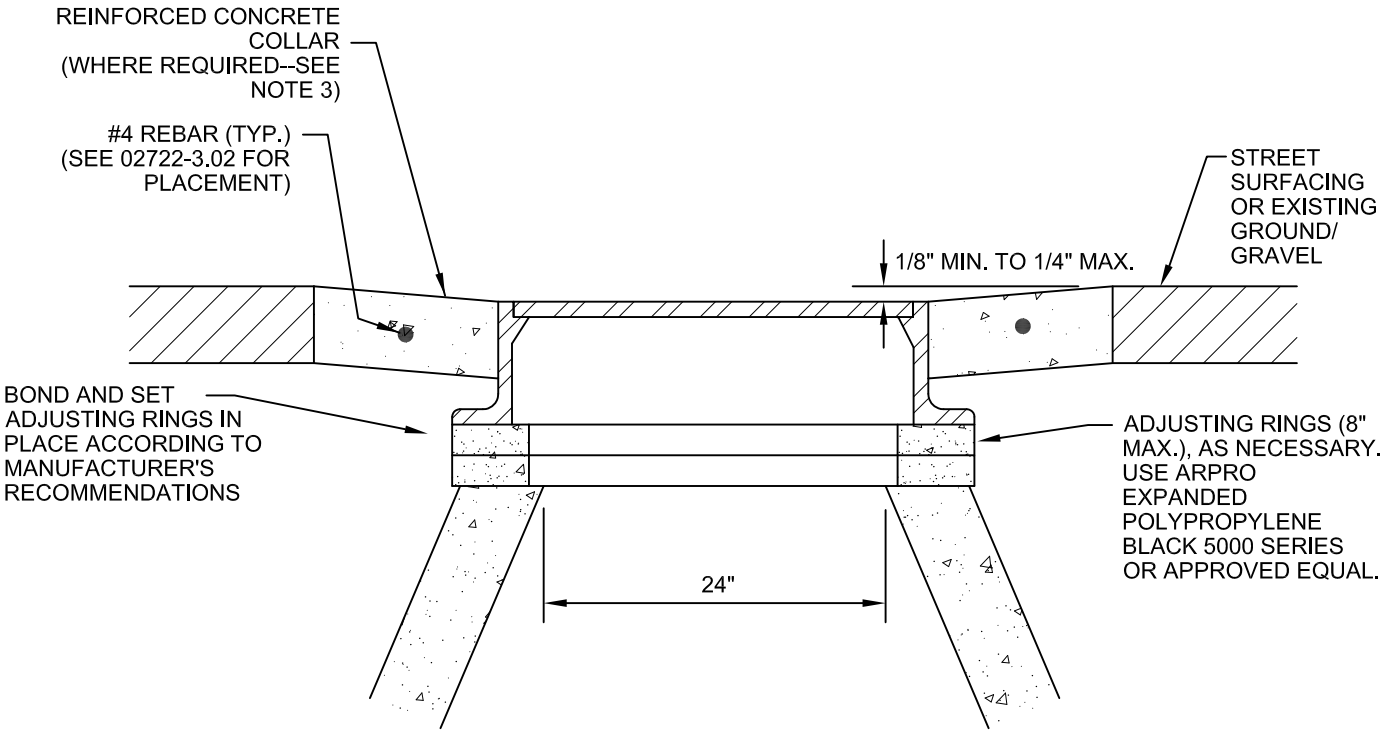
NOT TO SCALE

WATER VALVE BOX ADJUSTMENT DETAIL

DWG. NO. 02570-3.01a

CITY of SHERIDAN

NOVEMBER 2015



NOTES:

1. ADJUST MANHOLES UPWARD WITH ADJUSTING RINGS UNDER FRAMES. CONCRETE ADJUSTING RINGS SHALL NOT BE USED.
2. ADJUST MANHOLES DOWNWARD BY REMOVING CONE AND BARREL SECTIONS, AS NECESSARY, AND REPLACING WITH SECTIONS OF HEIGHT REQUIRED TO MATCH GRADE.
3. CONCRETE COLLAR TO BE PLACED AS SHOWN AND AS PER DWG. NO. 02722-3.02 WHERE REQUIRED. SEE STANDARD SPECIFICATION SECTIONS 02570 AND 02722 FOR GUIDANCE ON CONCRETE COLLAR REQUIREMENTS.
4. NO ADDITIONAL PAYMENT SHALL BE MADE FOR ADJUSTMENT OF NEW MANHOLES TO FINAL GRADE.
5. SLOPE MANHOLE FRAMES AS REQUIRED TO MATCH SLOPE OF STREET.
6. DO NOT GROUT SMOOTH INTERNALLY.

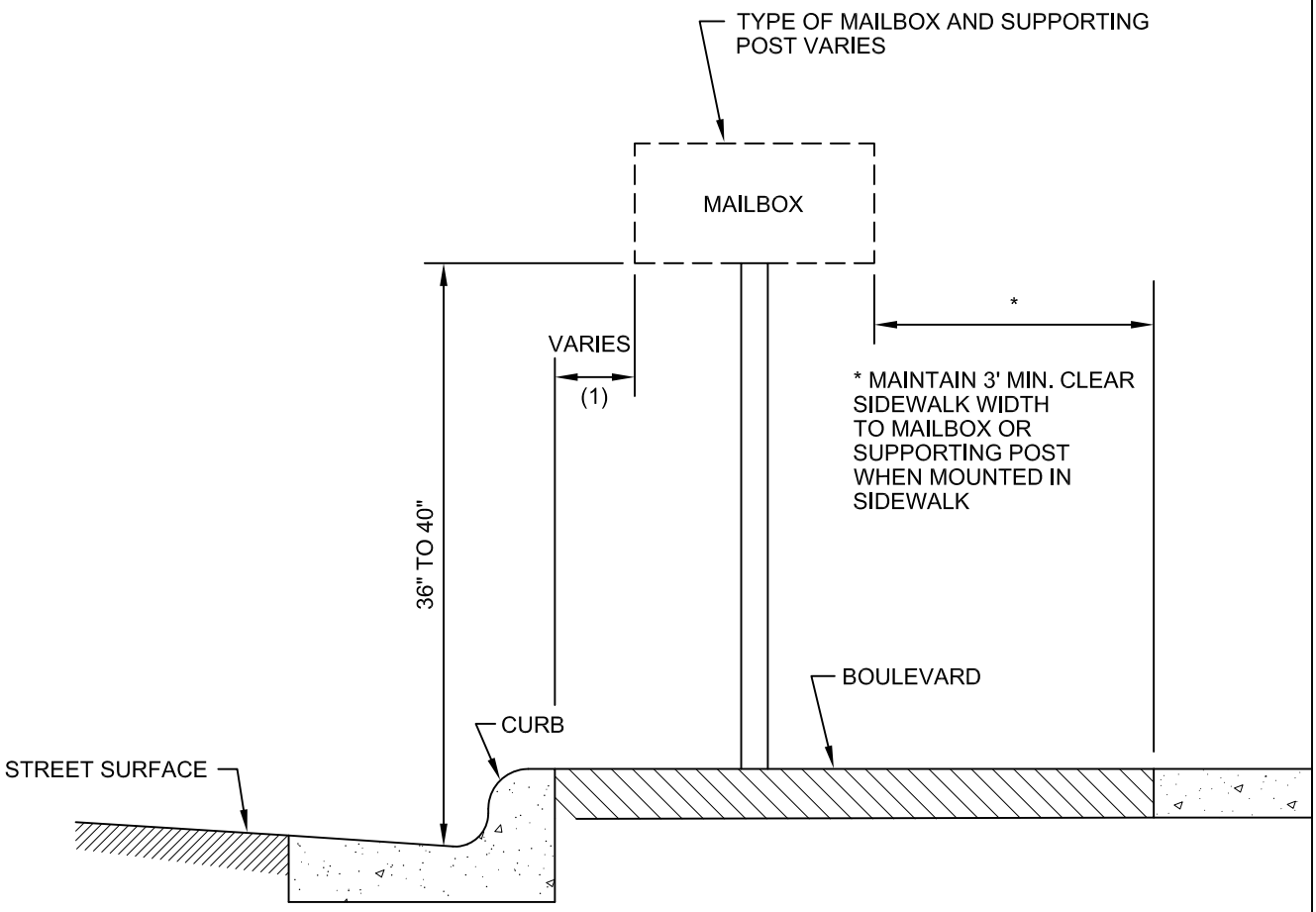
NOT TO SCALE

MANHOLE ADJUSTMENT DETAIL

DWG. NO. 02570-3.01b

CITY of SHERIDAN

NOVEMBER 2015



NOTES:

1. POSTMASTER GENERAL TO DETERMINE LOCATION OF MAILBOX.

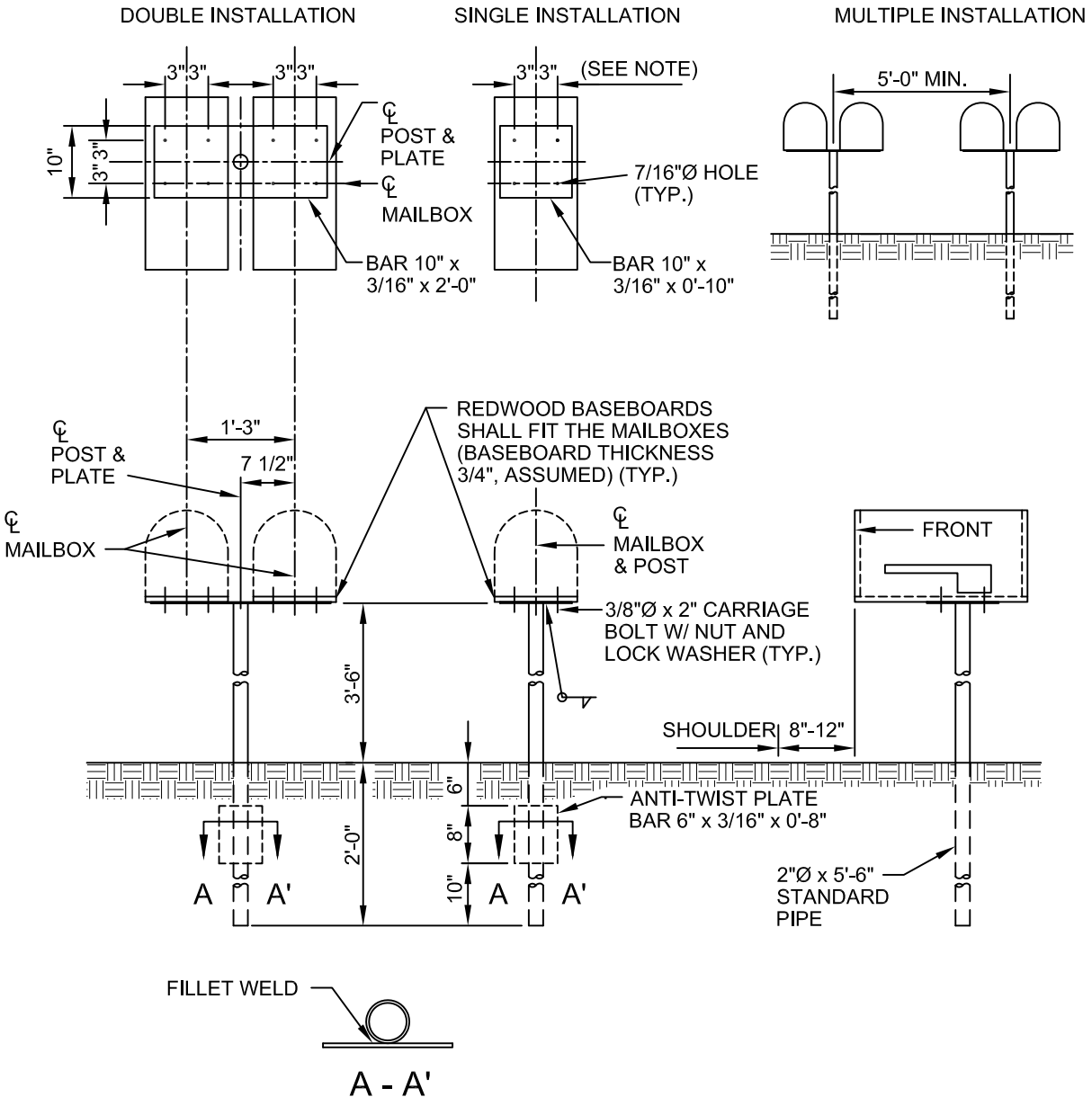
NOT TO SCALE

MAILBOX MOUNTING FOR CURBLINE DELIVERY DETAIL (NO SIDEWALK)

DWG. NO. 02605-3.01a

CITY of SHERIDAN

NOVEMBER 2015



NOTES:

1. CONTACT POSTMASTER GENERAL TO DETERMINE MAILBOX LOCATION AND SIZING.
2. DIMENSIONS MAY REQUIRE ADJUSTMENT, DEPENDING UPON MAILBOX SIZE USED. DIMENSIONS SHOWN ARE FOR AN 11 1/2" WIDE MAILBOX.

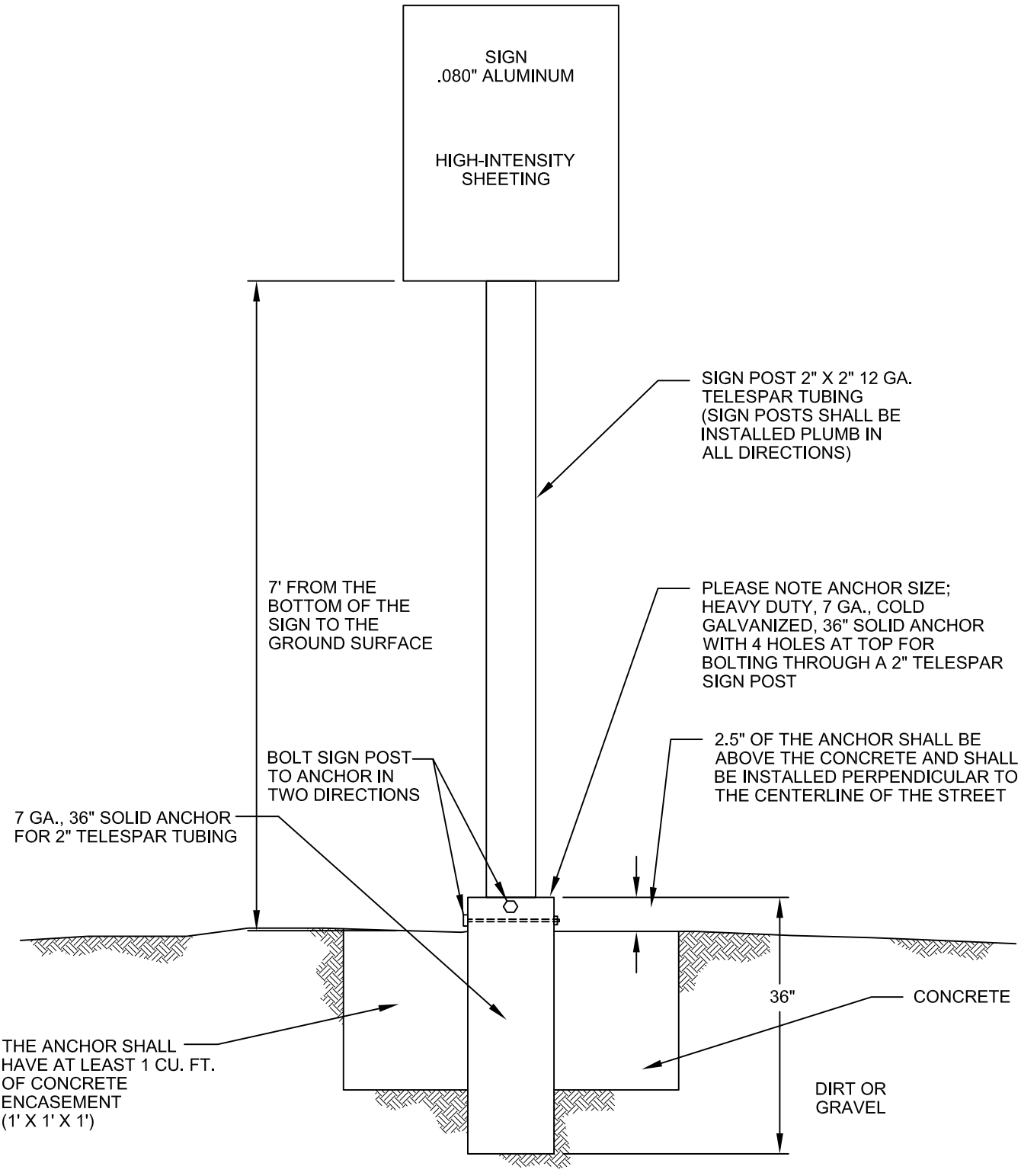
NOT TO SCALE

MAILBOX DETAILS

DWG. NO. 02605-3.01b

CITY of SHERIDAN

NOVEMBER 2015



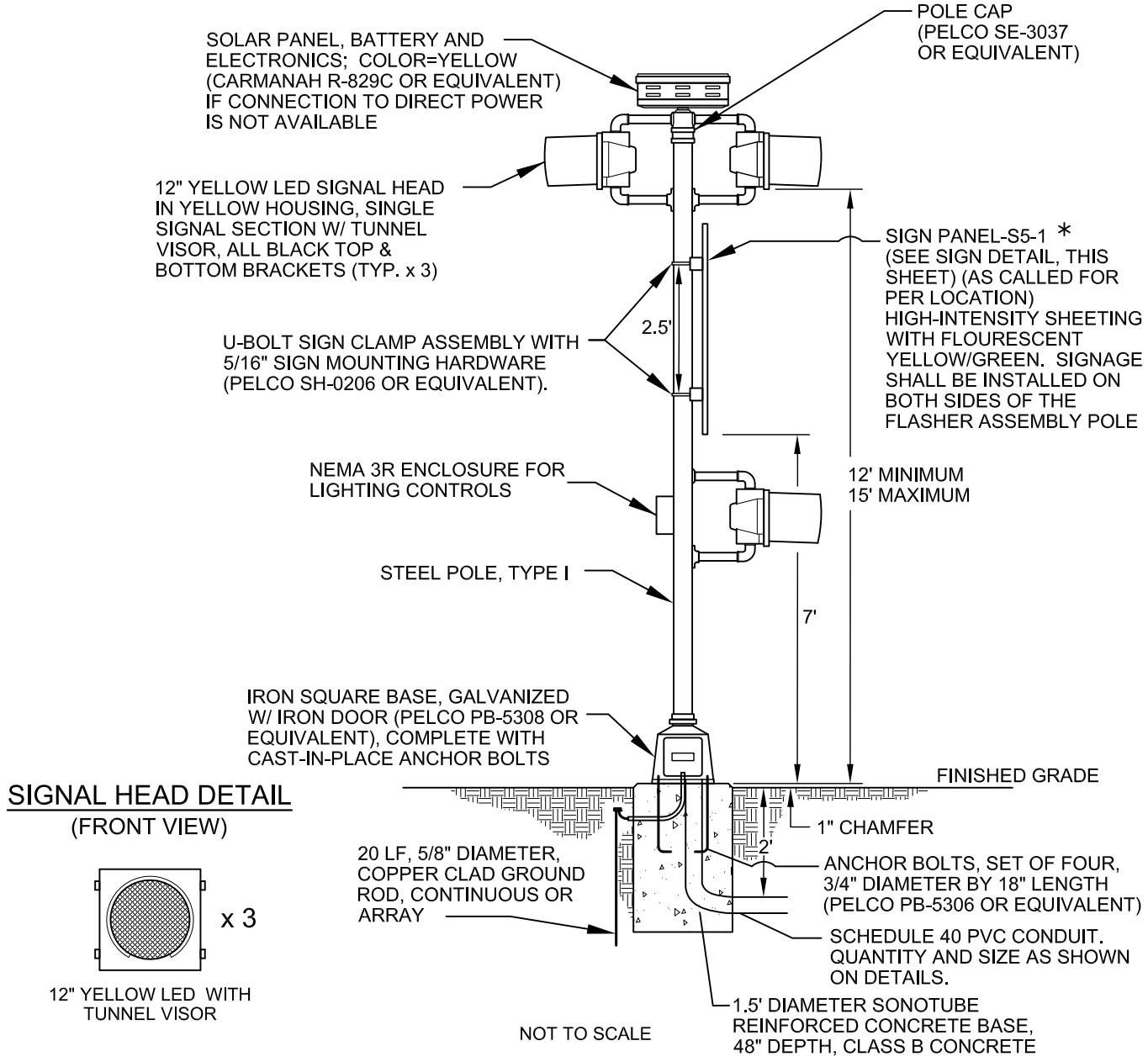
NOT TO SCALE

SIGN INSTALLATION DETAIL

DWG. NO.	02605-3.01c

CITY of SHERIDAN

NOVEMBER 2015



NOT TO SCALE

SIGNAL HEAD DETAIL

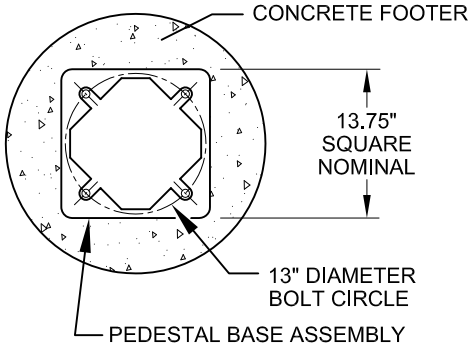
(FRONT VIEW)

x 3

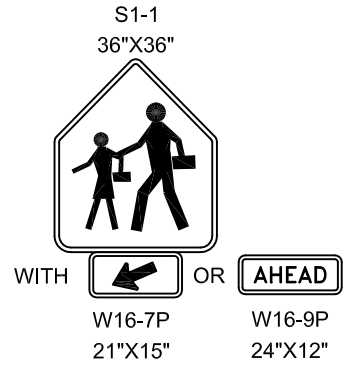
12" YELLOW LED WITH TUNNEL VISOR

BASE PLATE DETAIL

(PLAN VIEW)



SIGN DETAIL

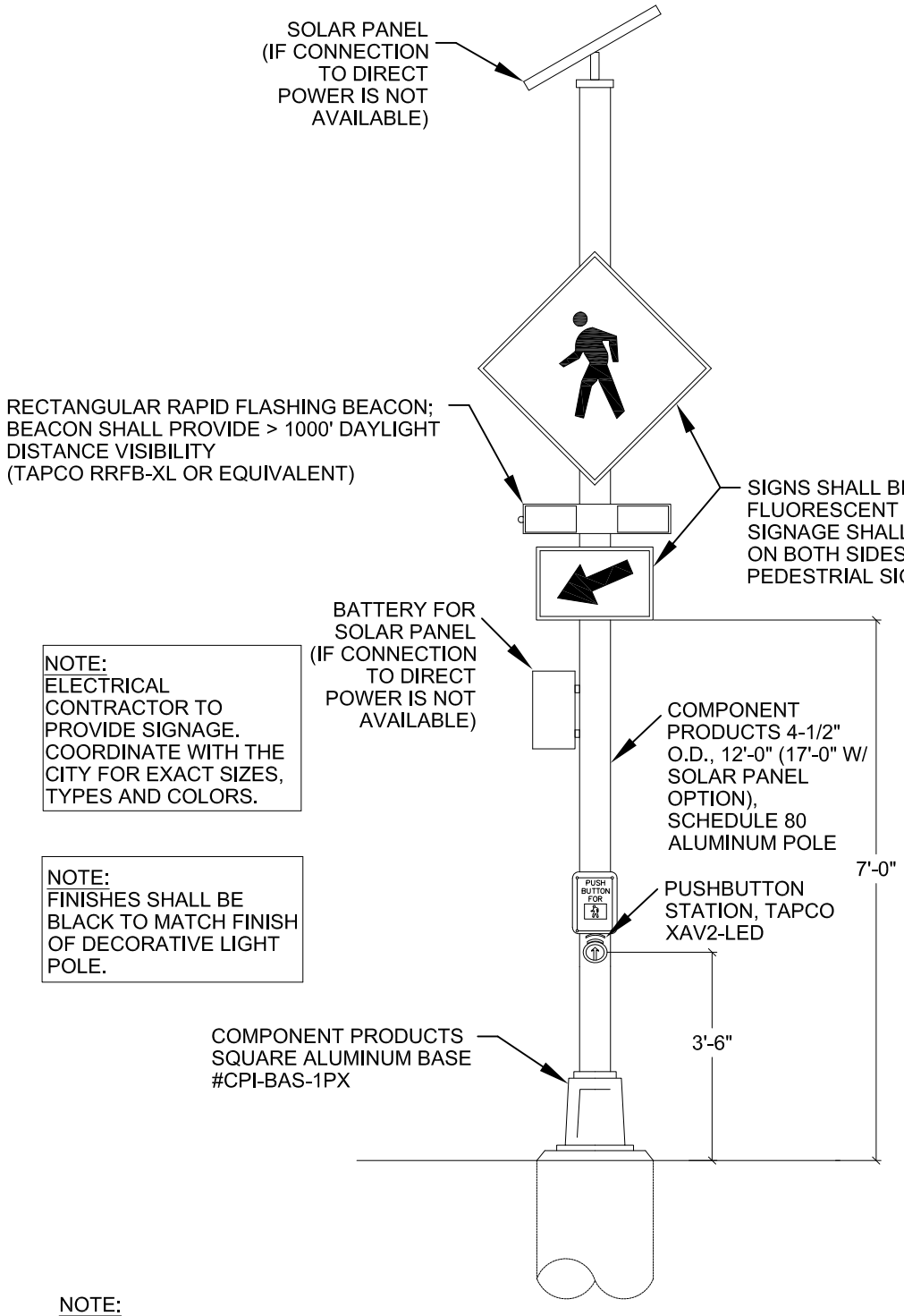


SCHOOL ZONE ASSEMBLY DETAIL

DWG. NO.	02605-3.01d

CITY of SHERIDAN

NOVEMBER 2015



NOTE:
ELECTRICAL CONTRACTOR TO PROVIDE SIGNAGE. COORDINATE WITH THE CITY FOR EXACT SIZES, TYPES AND COLORS.

NOTE:
FINISHES SHALL BE BLACK TO MATCH FINISH OF DECORATIVE LIGHT POLE.

NOTE:

SIGNAGE SHALL BE INSTALLED ON BOTH SIDES OF THE PEDESTRIAN SIGNAL POLE.

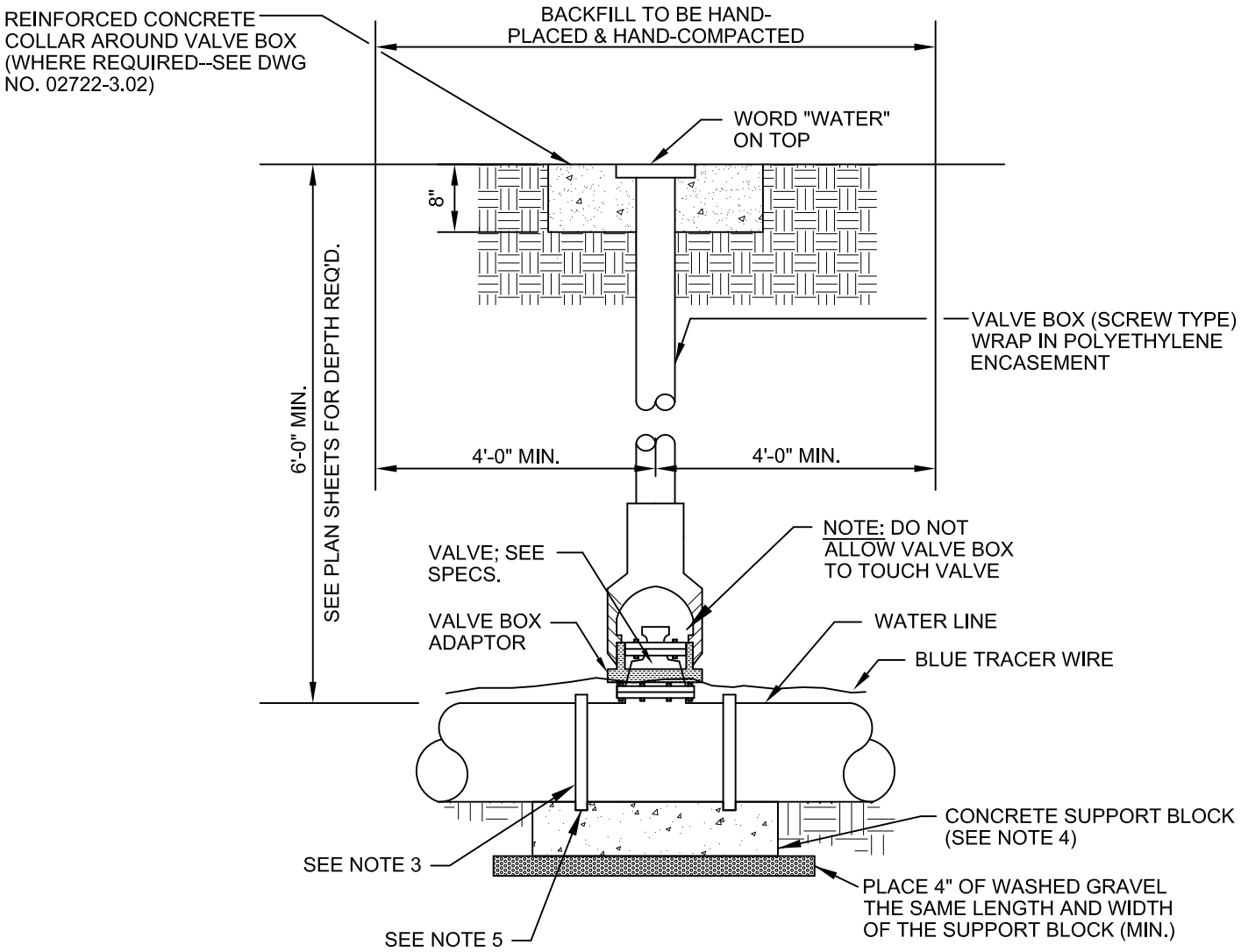
NOT TO SCALE

FLASHER / PEDESTRIAN SIGNAL POLE DETAIL

DWG. NO. 02605-3.01e

CITY of SHERIDAN

NOVEMBER 2015



NOTES:

1. ALL BOLTS, NUTS & WASHERS ARE TO BE SERIES 300 STAINLESS STEEL.
2. ON GRAVELLED OR DIRT ROADS, OR WHERE REQUIRED AS A CORRECTIVE MEASURE, TOP OF VALVE BOX SHALL BE PLACED IN REINFORCED CONCRETE COLLAR. SEE DRAWINGS NO. 02570-3.01a AND 02722-3.02 FOR DETAILS.
3. ALL VALVES ARE TO BE RESTRAINED TO PIPE.
4. CONCRETE SUPPORT BLOCKS MAY BE PRE-CAST OR POURED IN PLACE; SUPPORT BLOCKS SHALL BE CONSTRUCTED OF 4000 PSI CONCRETE (MIN.); FOR VALVES 12" AND SMALLER, SUPPORT BLOCKS SHALL BE 18" X 18" X 6" IN SIZE; FOR VALVES LARGER THAN 12", SUPPORT BLOCK DIMENSIONS SHALL BE DETERMINED BY THE ENGINEER.
5. IF CONCRETE SUPPORT BLOCKS ARE POURED IN PLACE, THEY SHALL BE FORMED; USE POLYETHYLENE TO SEPARATE FITTING FROM THE CONCRETE.

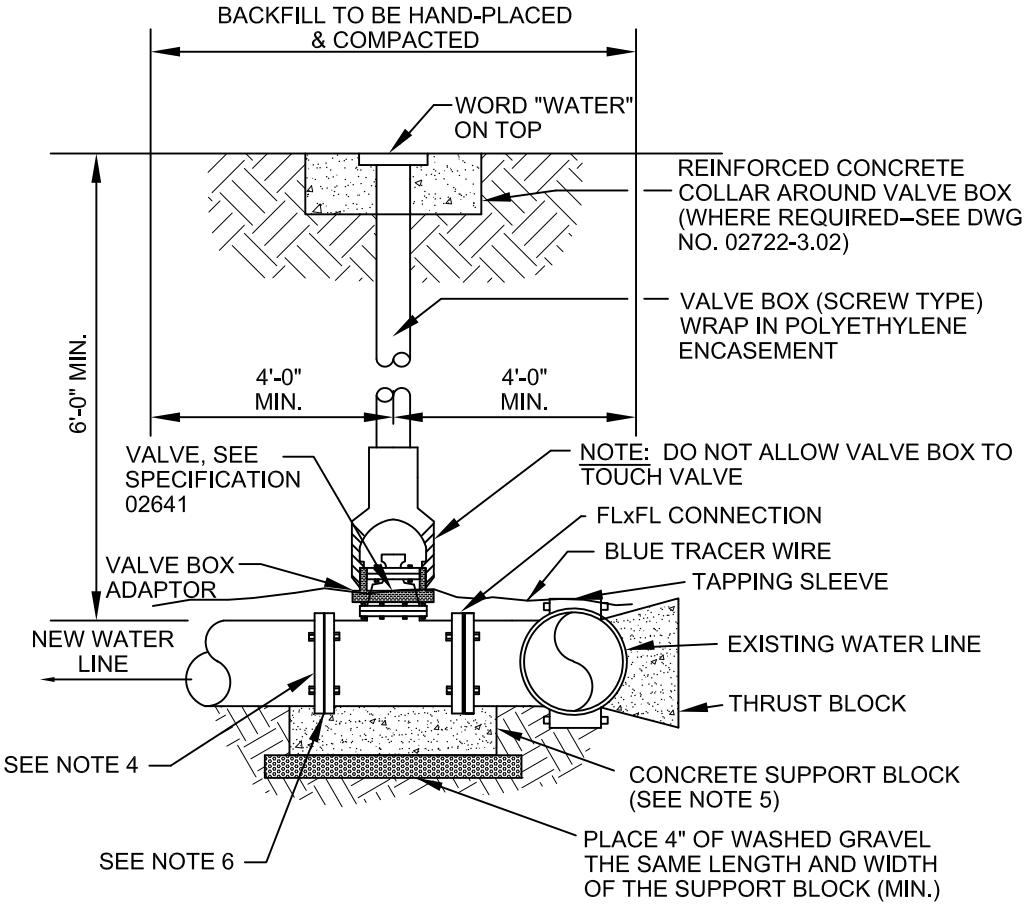
NOT TO SCALE

WATER LINE VALVE AND BOX DETAIL

DWG. NO. 02641-2.01B

CITY of SHERIDAN

NOVEMBER 2015



NOTES:

1. ALL BOLTS, NUTS & WASHERS ARE TO BE SERIES 300 STAINLESS STEEL.
2. BEGIN TRACER WIRE BY WRAPPING AROUND EXISTING WATER LINE.
3. ON GRAVELLED OR DIRT ROADS, OR WHERE REQUIRED AS A CORRECTIVE MEASURE, TOP OF VALVE BOX SHALL BE PLACED IN REINFORCED CONCRETE COLLAR. SEE DRAWINGS NO. 02570-3.01a AND 02722-3.02 FOR DETAILS.
4. ALL VALVES ARE TO BE RESTRAINED TO PIPE.
5. CONCRETE SUPPORT BLOCKS MAY BE PRE-CAST OR POURED IN PLACE; SUPPORT BLOCKS SHALL BE CONSTRUCTED OF 4000 PSI CONCRETE (MIN.); FOR VALVES 12" AND SMALLER, SUPPORT BLOCKS SHALL BE 18" X 18" X 6" IN SIZE; FOR VALVES LARGER THAN 12", SUPPORT BLOCK DIMENSIONS SHALL BE DETERMINED BY THE ENGINEER.
6. IF CONCRETE SUPPORT BLOCKS ARE POURED IN PLACE, THEY SHALL BE FORMED; USE POLYETHYLENE TO SEPARATE FITTING FROM THE CONCRETE.

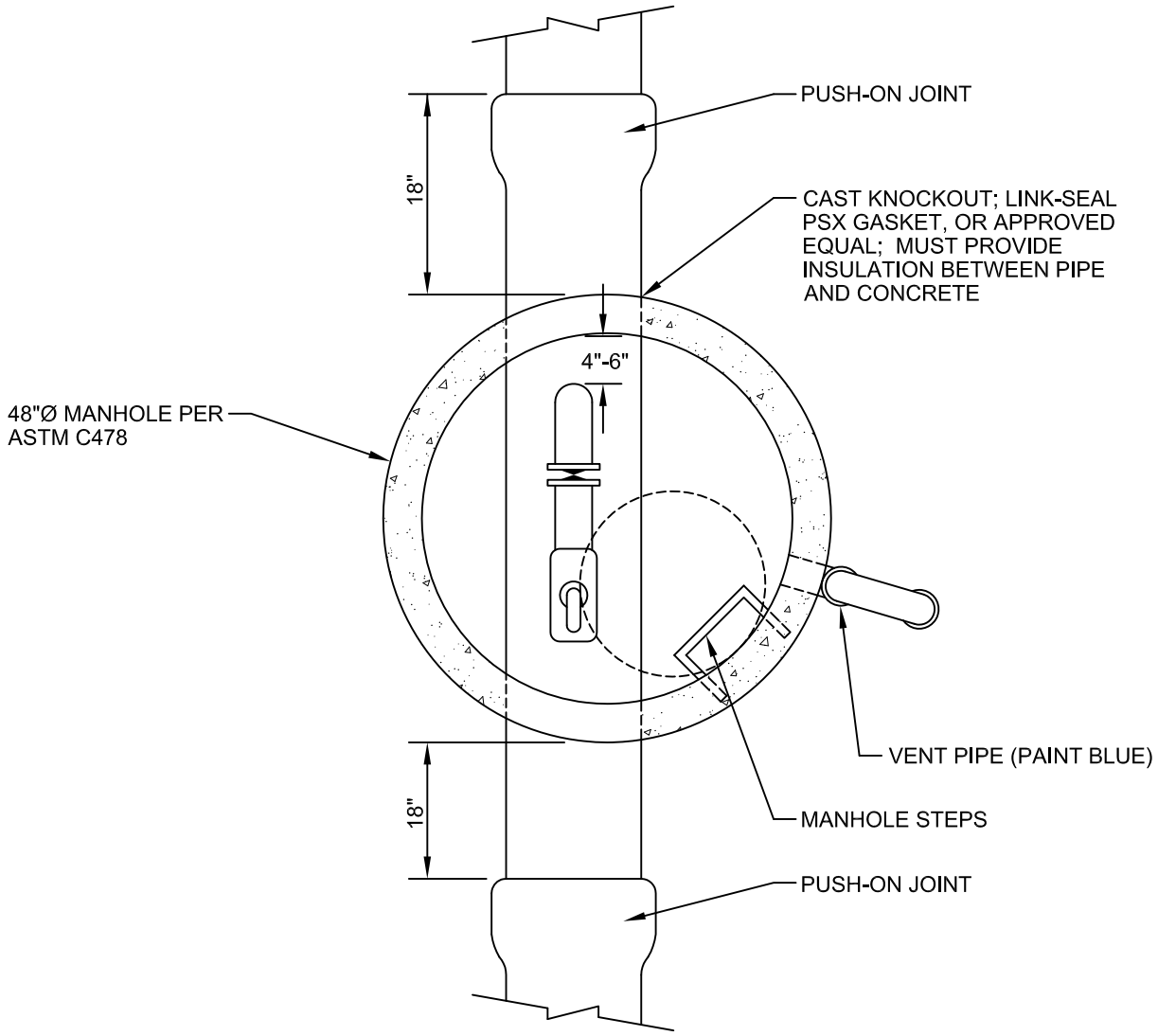
NOT TO SCALE

TAPPING SLEEVE AND VALVE CONNECTION TO EXISTING WATER LINE DETAIL

DWG. NO. 02641-2.01D

CITY of SHERIDAN

NOVEMBER 2015



NOTES:

1. PROVIDE A 6' x 6' (3/4" THICK) INSULATION BLANKET FOR EACH AIR RELEASE / VACUUM RELIEF VALVE.
2. GUARD POSTS REQUIRED ON AIR RELEASE / VACUUM RELIEF VALVES AS SHOWN IN PLAN DRAWINGS.
3. FOR IDENTIFICATION OF INTERNAL PIPING AND VALVES, SEE DETAILS 02641-2.02B, C, D AND E.

NOT TO SCALE

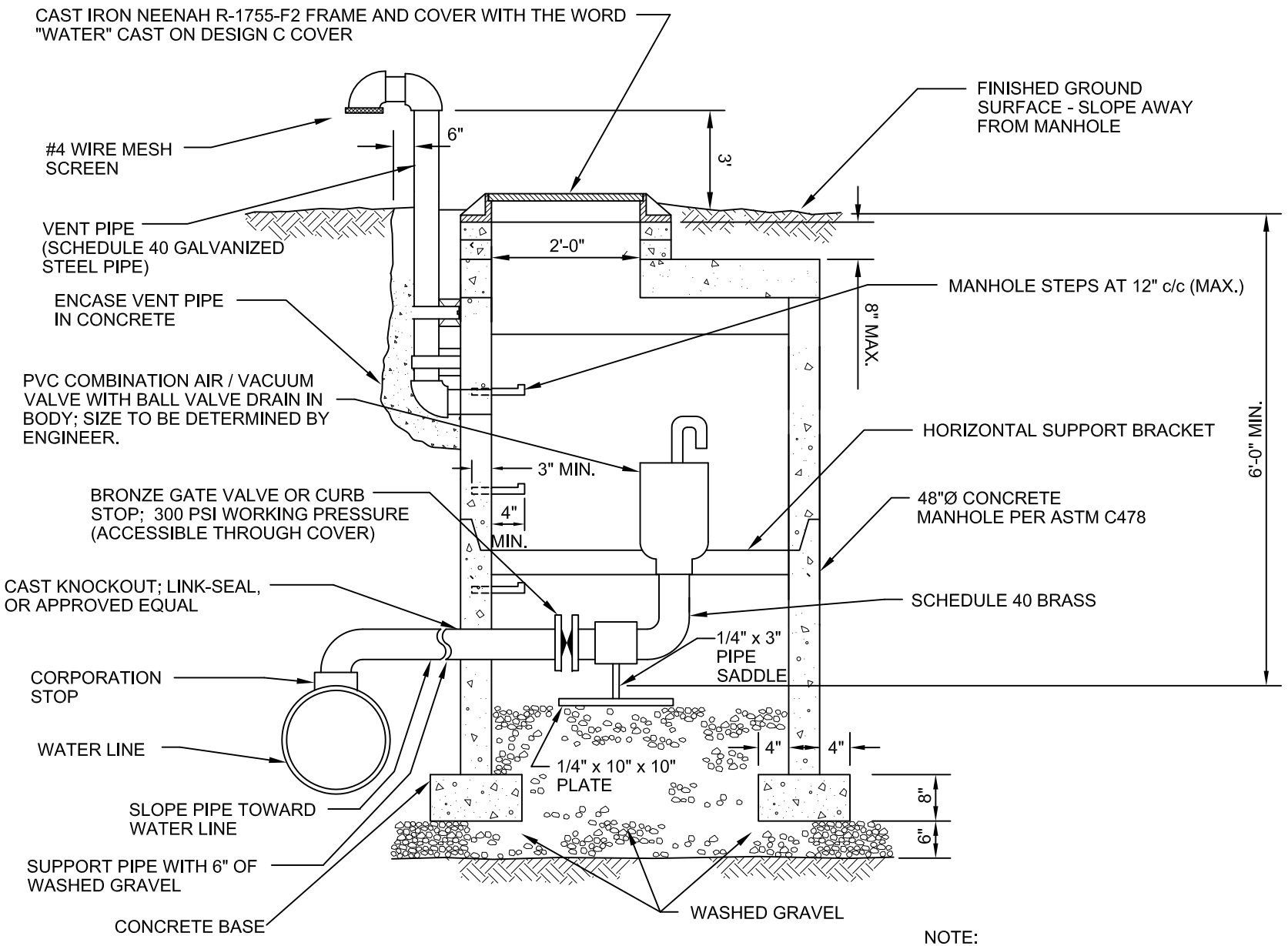
AIR RELEASE / VACUUM RELIEF VALVE AND MANHOLE DETAIL - PLAN

DWG. NO.	02641-2.02a

CITY of SHERIDAN

NOVEMBER 2015

AIR RELEASE / VACUUM RELIEF VALVE AND MANHOLE DETAIL - W/ OFFSET SETTING



NOTES:

1. OFFSET SETTING TO BE USED AS DIRECTED BY THE ENGINEER.
2. ALIGN CURB STOP UNDER OPENING SO IT CAN BE CLOSED WITH A WRENCH WITHOUT ENTERING MANHOLE.

NOT TO SCALE

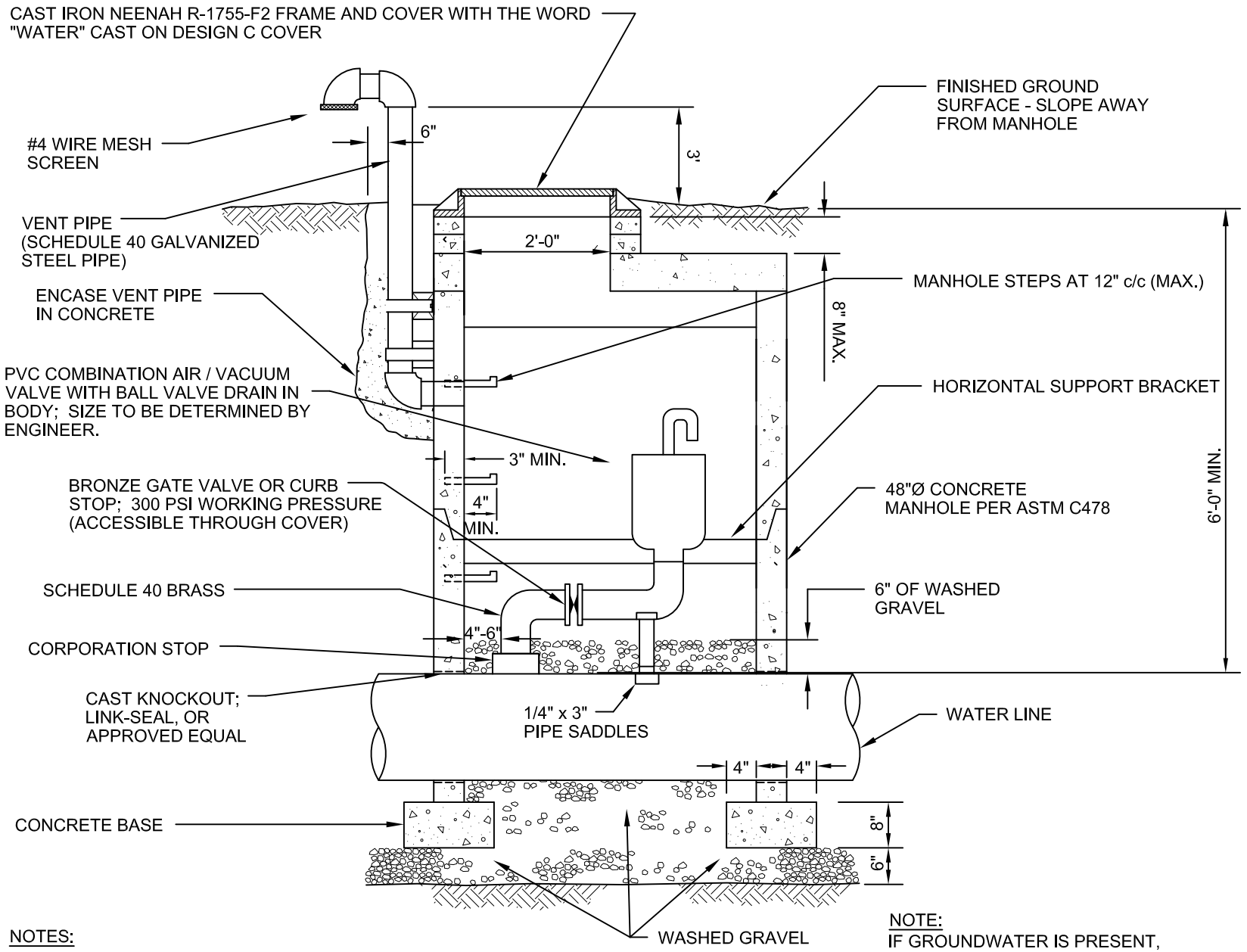
NOTE:
IF GROUNDWATER IS PRESENT, VENT PIPES SHALL BE CONNECTED TOGETHER AND A DUAL CHECK VALVE (APCO SERIES 300) SHALL BE INSTALLED TO PERMIT DRAINING OF WATER FROM VENT TUBE. BODY, TRIM AND SPRING SHALL BE STAINLESS STEEL.

CITY of SHERIDAN

NOVEMBER 2015

DWG. NO. 02641-2.02b

AIR RELEASE / VACUUM RELIEF VALVE AND MANHOLE DETAIL - W/ CONVENTIONAL SETTING



NOTES:

1. CONVENTIONAL SETTING TO BE AS DIRECTED BY THE ENGINEER.
2. ALIGN CURB STOP UNDER OPENING SO IT CAN BE CLOSED WITH A WRENCH WITHOUT ENTERING MANHOLE.

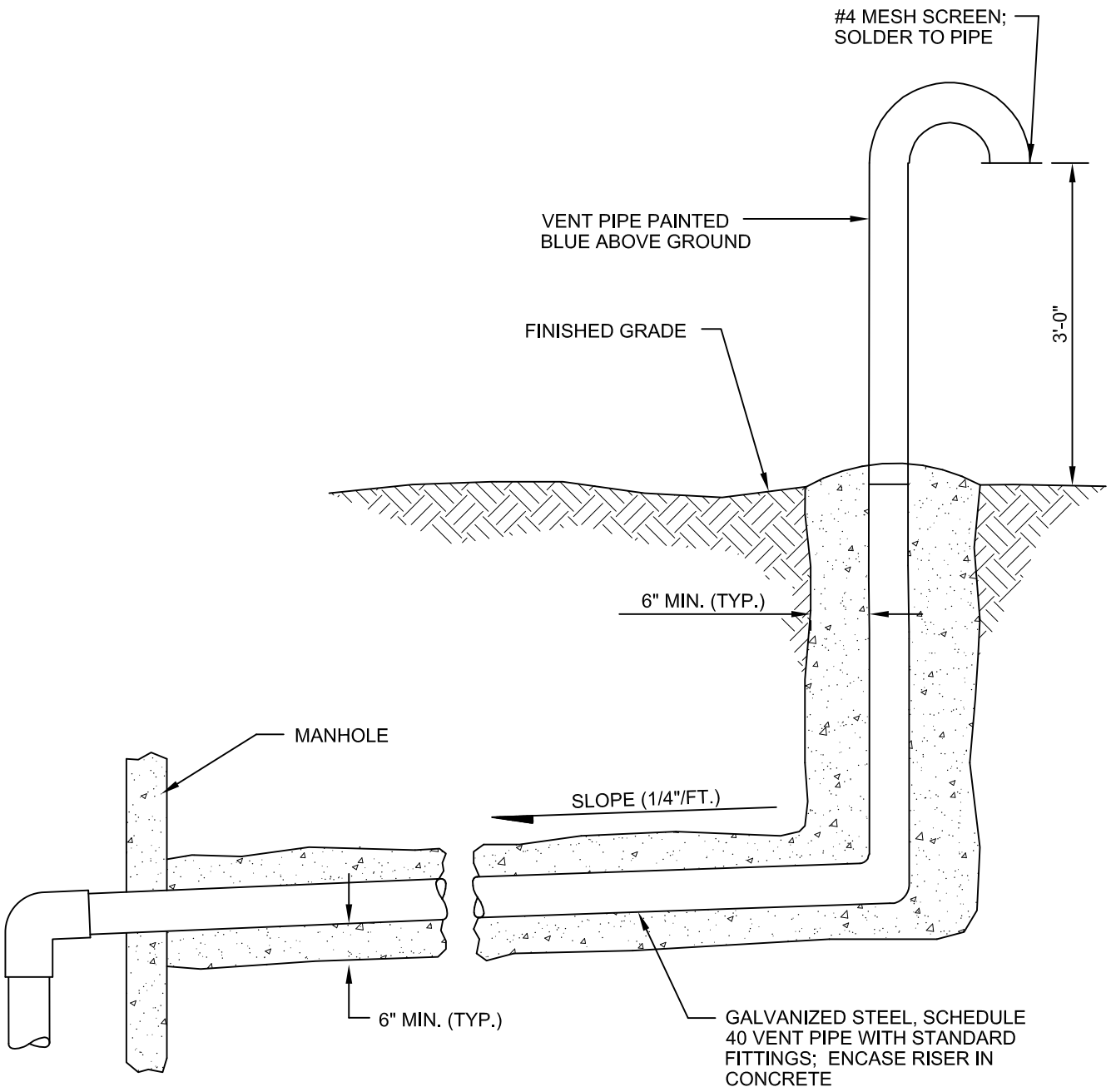
NOT TO SCALE

NOTE:
IF GROUNDWATER IS PRESENT, VENT PIPES SHALL BE CONNECTED TOGETHER AND A DUAL CHECK VALVE (APCO SERIES 300) SHALL BE INSTALLED TO PERMIT DRAINING OF WATER FROM VENT TUBE. BODY, TRIM AND SPRING SHALL BE STAINLESS STEEL.

CITY of SHERIDAN

NOVEMBER 2015

DWG. NO. 02641-2.02c



NOT TO SCALE

VENT PIPE DETAIL FOR LOCATIONS WHERE OFFSET VENT PIPE IS REQUIRED

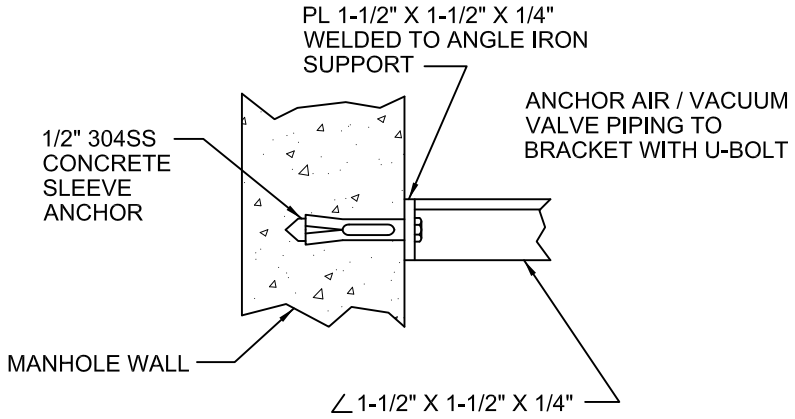
DWG. NO. 02641-2.02d

CITY of SHERIDAN

NOVEMBER 2015

SCHEDULE FOR
AIR VALVE, VENTING AND TAPPING PIPE SIZE

DIAMETER OF WATER LINE (IN)	DIAMETER OF AIR VALVE (IN)	DIAMETER OF VENT PIPE (IN)	BRONZE GATE VALVE OR CURB STOP (IN)	DIAMETER OF TAPPING PIPE (IN)
6	1	2	1	1
8 & 10	2	3	2	2
12 & 16	3	3	3	3



HORIZONTAL SUPPORT BRACKET

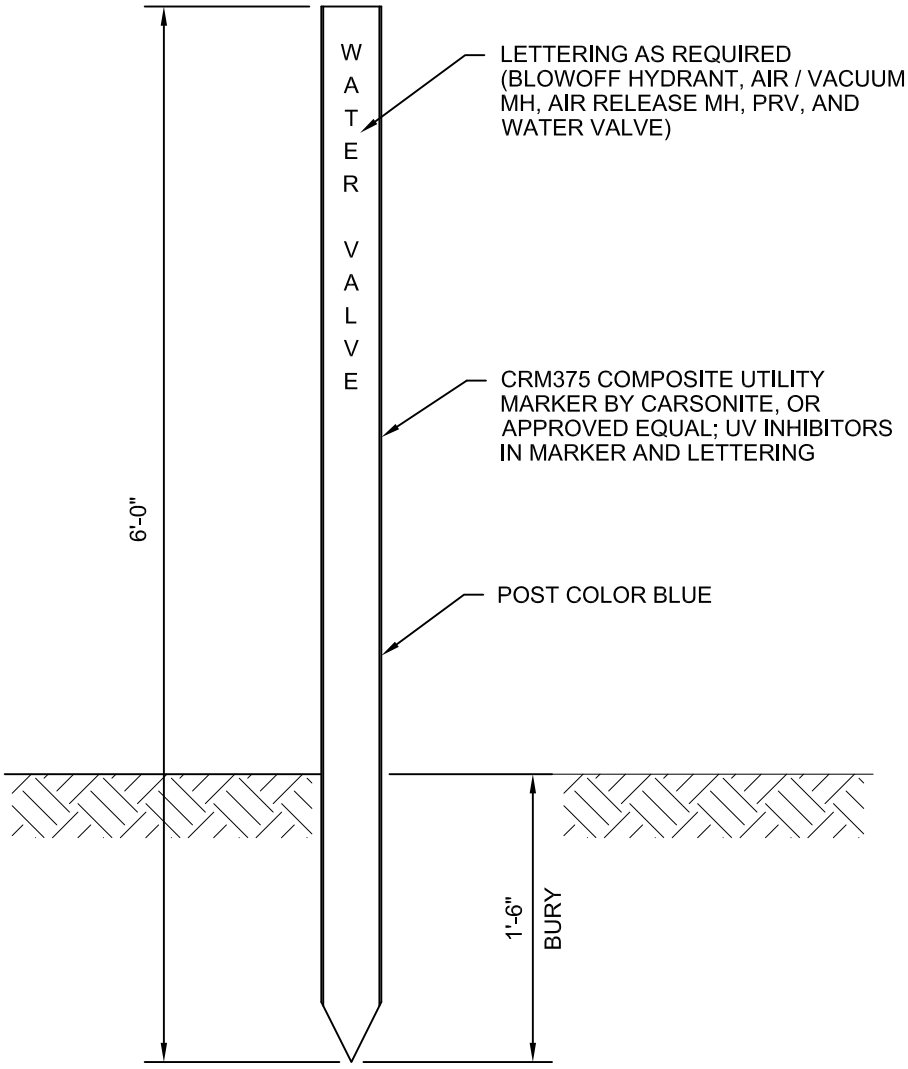
NOT TO SCALE

AIR RELEASE / VACUUM RELIEF VALVE VENT SCHEDULE AND SUPPORT BRACKET DETAIL

DWG. NO. 02641-2.02e

CITY of SHERIDAN

NOVEMBER 2015



NOTES:

1. INSTALL PER PLAN.

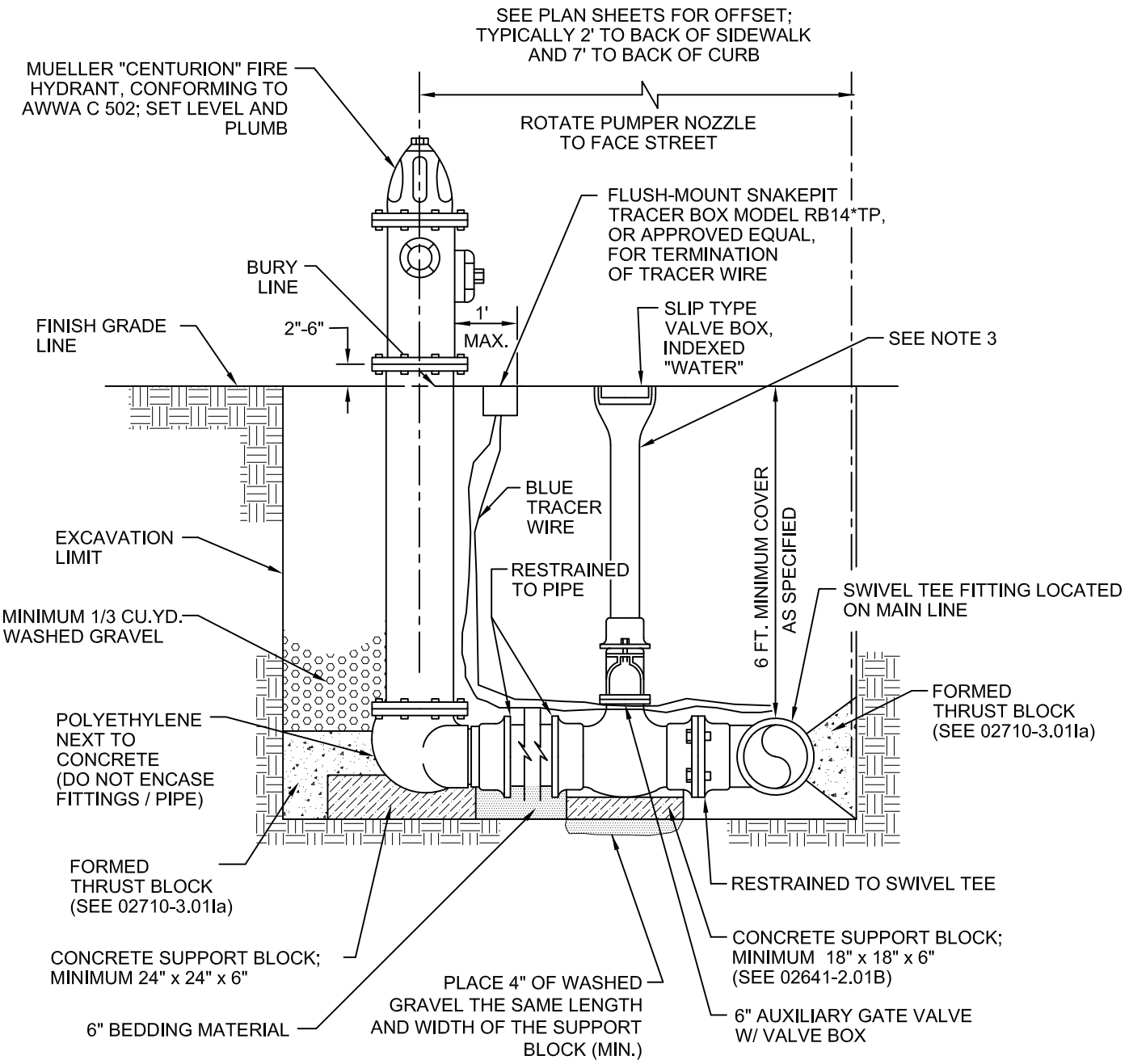
NOT TO SCALE

MARKER POST DETAIL

DWG. NO. 02641-2.05

CITY of SHERIDAN

NOVEMBER 2015



NOTES:

1. 6 FT. COVER IS A MINIMUM. THIS MAY BE GREATER IN SOME AREAS. SEE PLANS.
2. PIPE USED ON HYDRANT ASSEMBLY PER 02710. THRUST BLOCKING SHALL BE PER SPECIFICATIONS AND DETAILS. HYDRANT WEEP HOLES SHALL REMAIN UNOBSTRUCTED.
3. WRAP VALVE BOX IN POLYETHYLENE ENCASEMENT PER DETAIL 13944D.

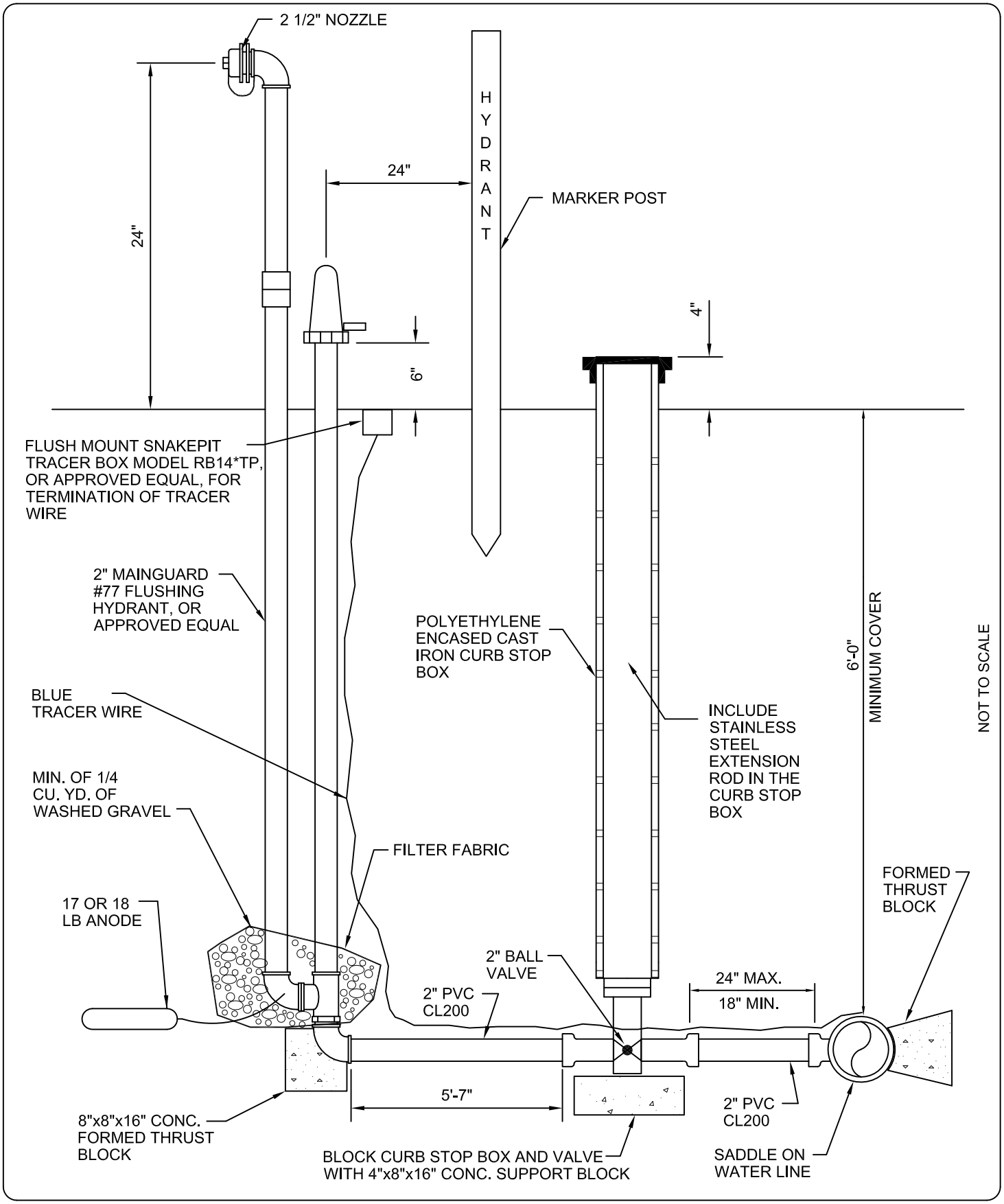
NOT TO SCALE

FIRE HYDRANT INSTALLATION DETAIL

DWG. NO. 02644-2.01

CITY of SHERIDAN

NOVEMBER 2015

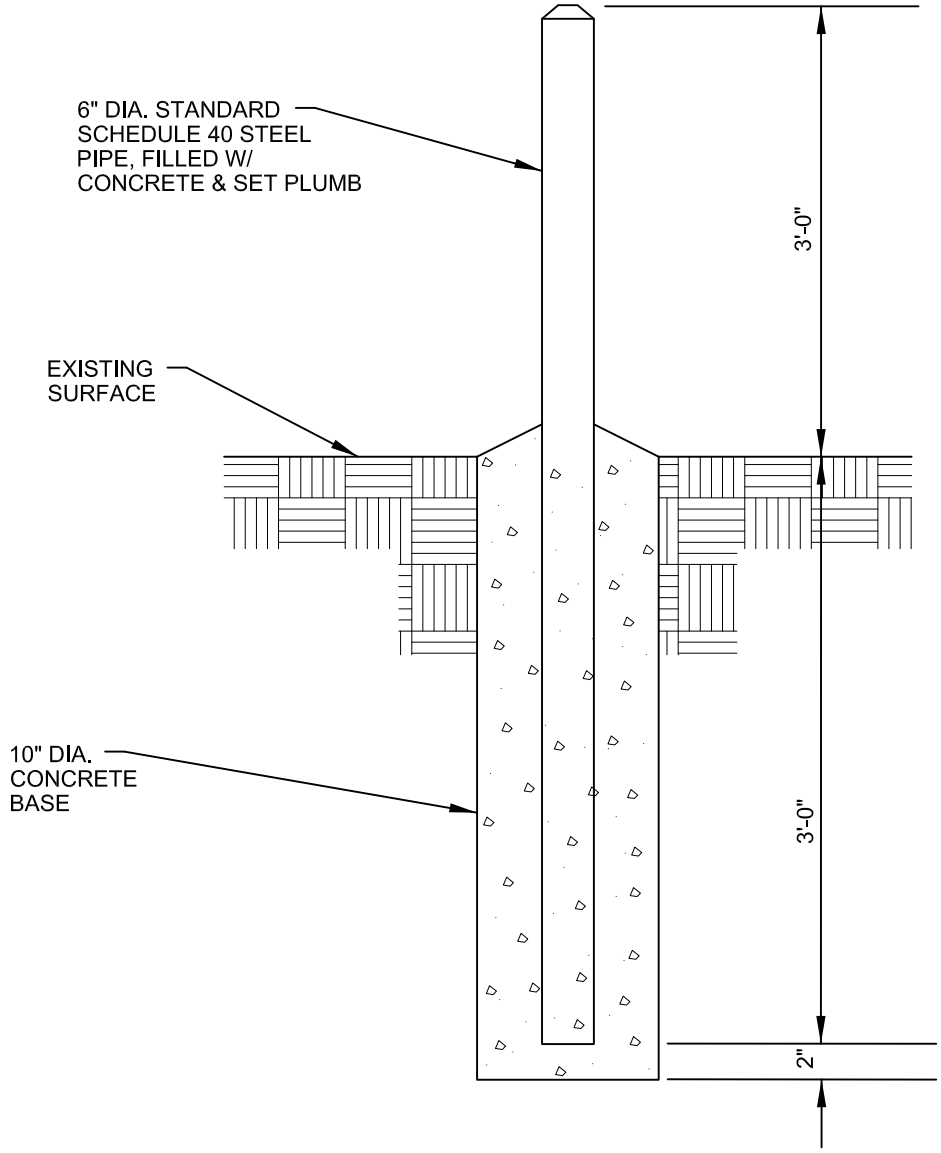


FLUSHING HYDRANT ASSEMBLY DETAIL

DWG. NO. 02644-2.02

CITY of SHERIDAN

NOVEMBER 2015



COLOR CODE GUARD POST YELLOW WITH REFLECTIVE PAINT

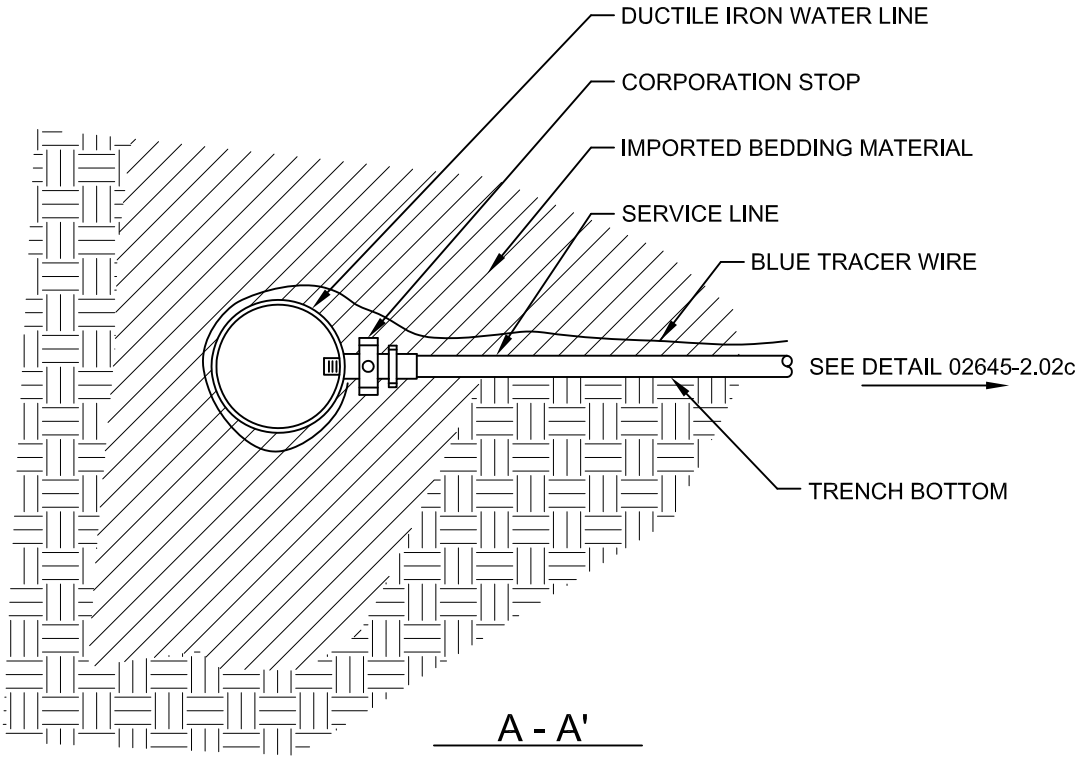
NOT TO SCALE

GUARD POST DETAIL

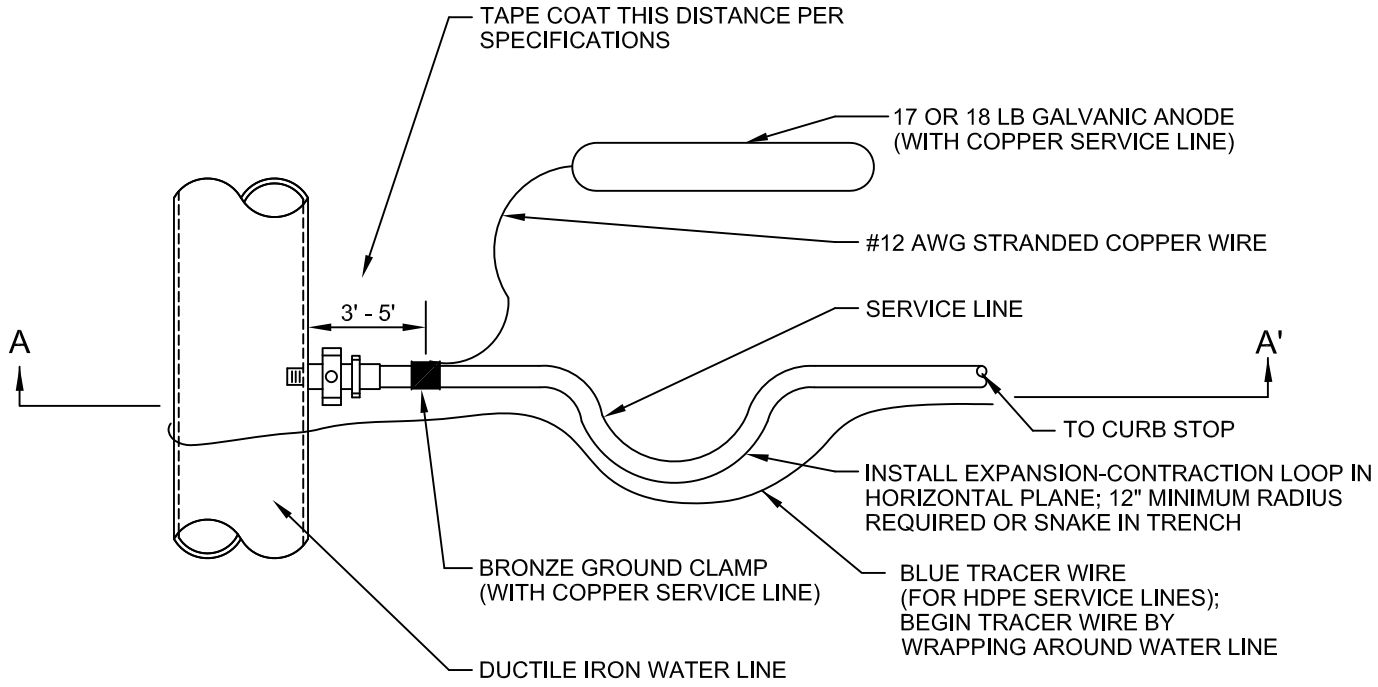
DWG. NO. 02644-2.03G

CITY of SHERIDAN

NOVEMBER 2015



A - A'



TOP VIEW

NOT TO SCALE

NOTE:

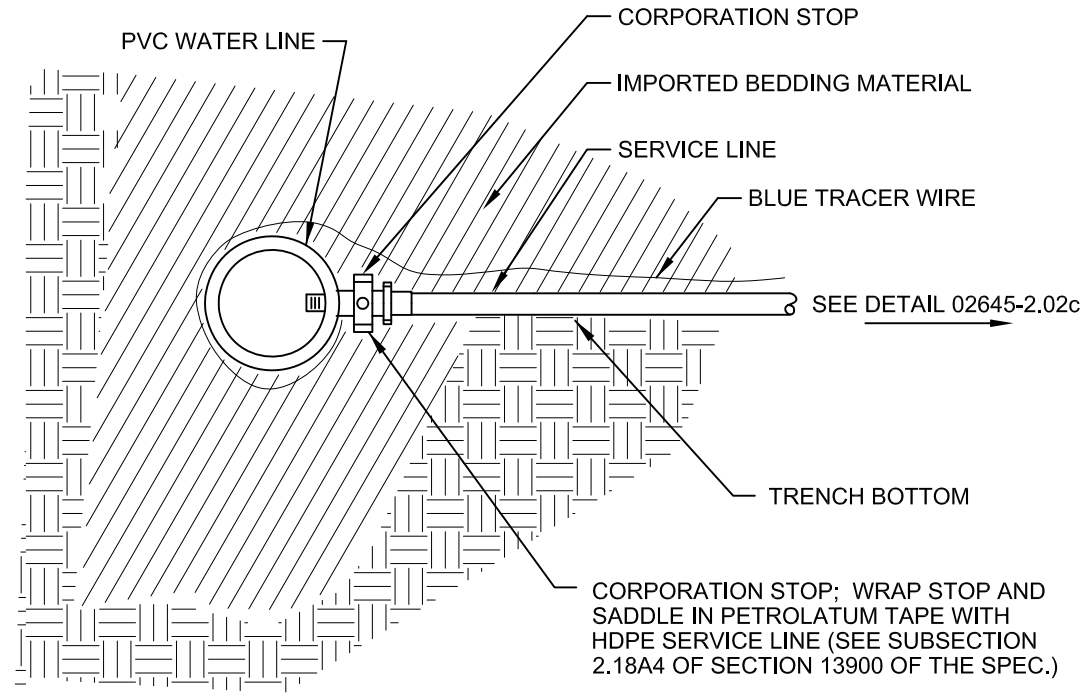
SERVICE LINES SHALL CONSIST OF A CONTINUOUS RUN OF PIPE FROM THE CORPORATION STOP TO THE CURB STOP.

DUCTILE IRON WATER LINE SERVICE DETAIL

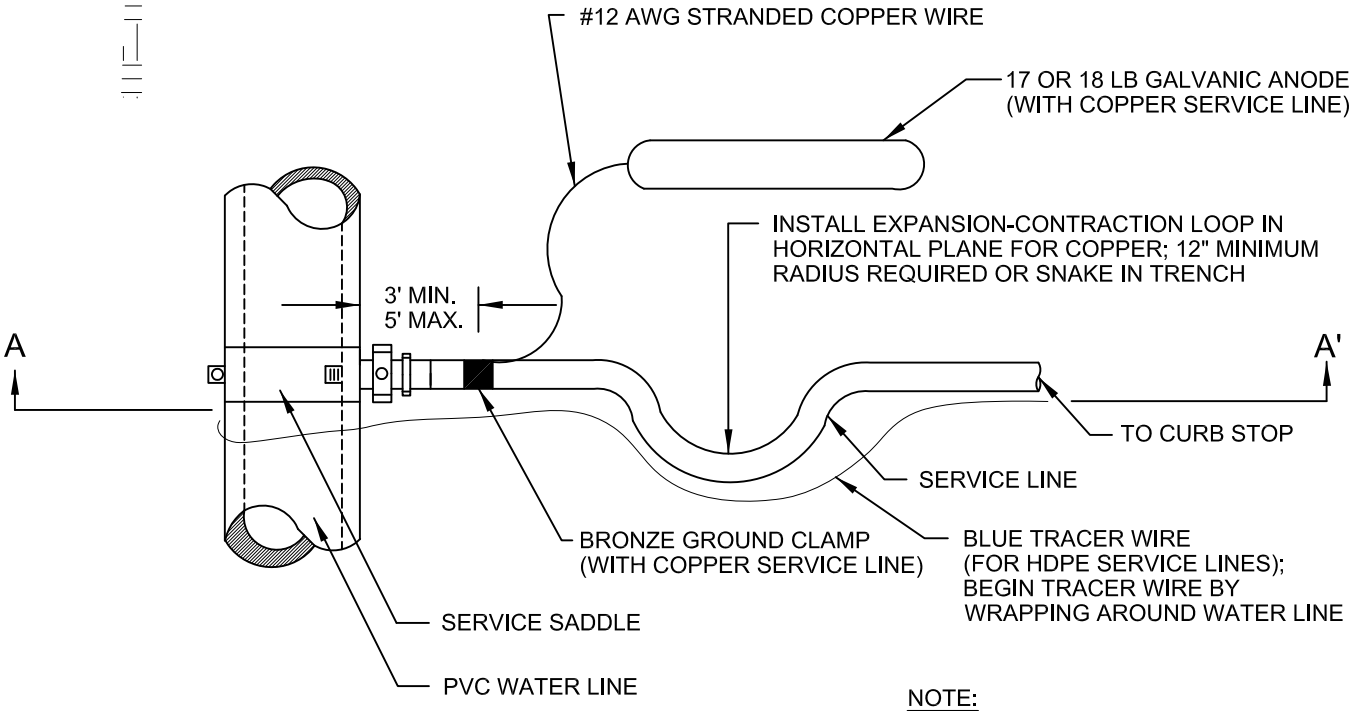
DWG. NO. 02645-2.02a

CITY of SHERIDAN

NOVEMBER 2015



A - A'



TOP VIEW

NOTE:

SERVICE LINES SHALL CONSIST OF A CONTINUOUS RUN OF PIPE FROM THE CORPORATION STOP TO THE CURB STOP.

NOT TO SCALE

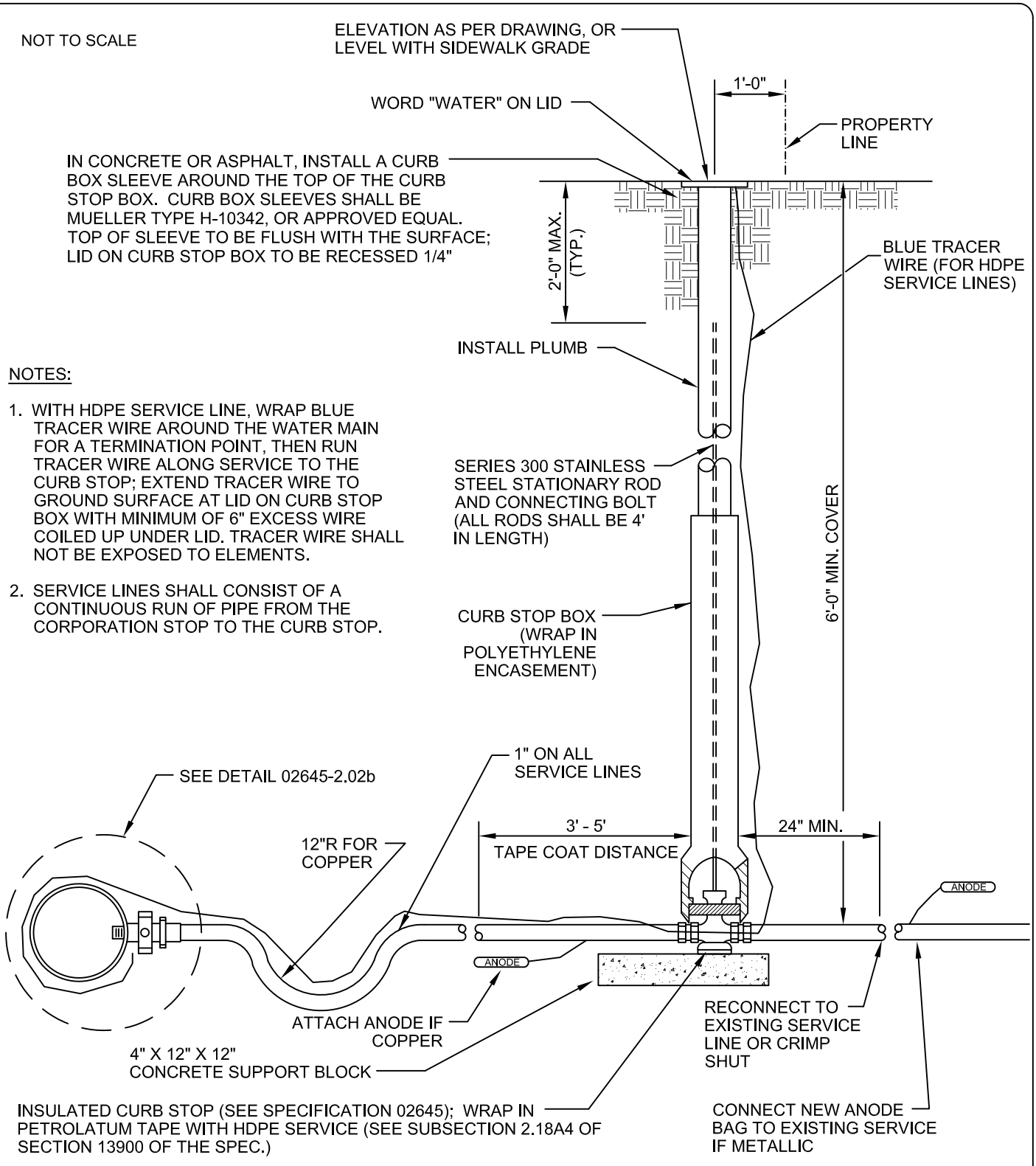
PVC WATER LINE SERVICE DETAIL

DWG. NO. 02645-2.02b

CITY of SHERIDAN

NOVEMBER 2015

NOT TO SCALE



NOTES:

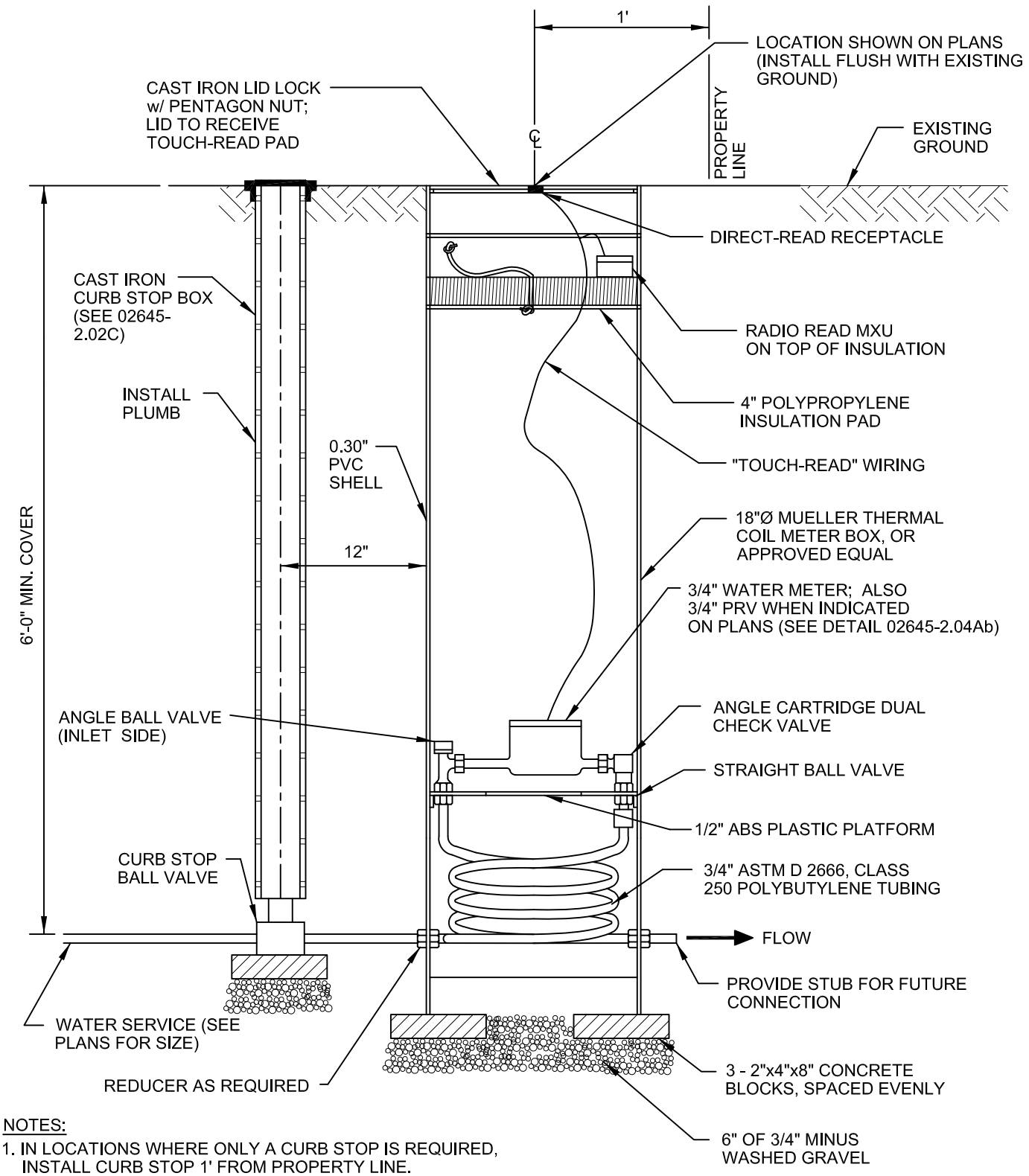
1. WITH HDPE SERVICE LINE, WRAP BLUE TRACER WIRE AROUND THE WATER MAIN FOR A TERMINATION POINT, THEN RUN TRACER WIRE ALONG SERVICE TO THE CURB STOP; EXTEND TRACER WIRE TO GROUND SURFACE AT LID ON CURB STOP BOX WITH MINIMUM OF 6" EXCESS WIRE COILED UP UNDER LID. TRACER WIRE SHALL NOT BE EXPOSED TO ELEMENTS.
2. SERVICE LINES SHALL CONSIST OF A CONTINUOUS RUN OF PIPE FROM THE CORPORATION STOP TO THE CURB STOP.

WATER LINE SERVICE CONNECTION DETAIL

DWG. NO. 02645-2.02c

CITY of SHERIDAN

NOVEMBER 2015



NOTES:

1. IN LOCATIONS WHERE ONLY A CURB STOP IS REQUIRED, INSTALL CURB STOP 1' FROM PROPERTY LINE.
2. CURB STOP BOX TO INCLUDE STATIONARY ROD (STAINLESS STEEL) AND PIN; CONTRACTOR SHALL VERIFY LENGTH.
3. INSIDE NUT SHALL BE HELD WITH A WRENCH WHEN CONNECTING SERVICE LINES.

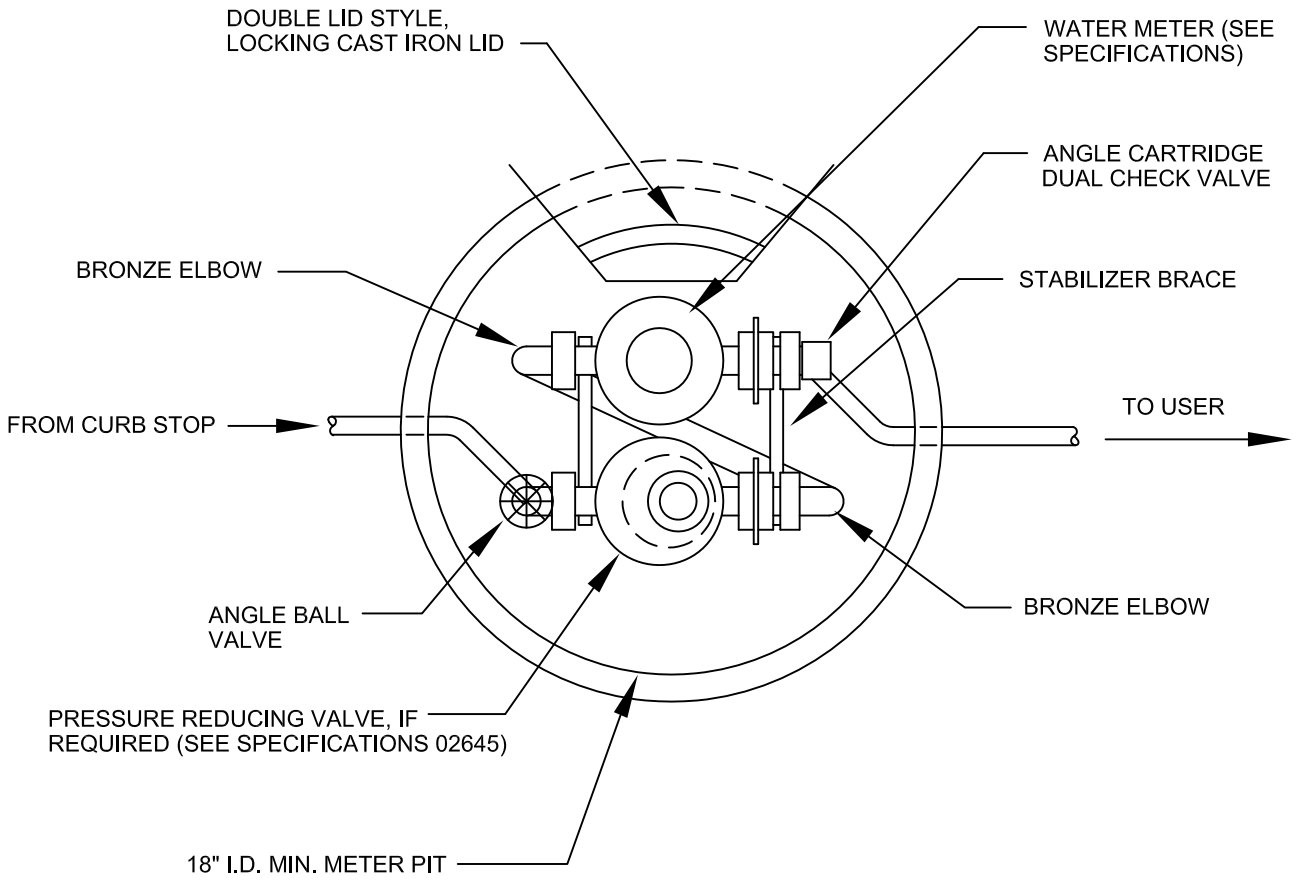
NOT TO SCALE

CURB STOP / METER PIT / PRV DETAIL

DWG. NO. 02645-2.04Aa

CITY of SHERIDAN

NOVEMBER 2015



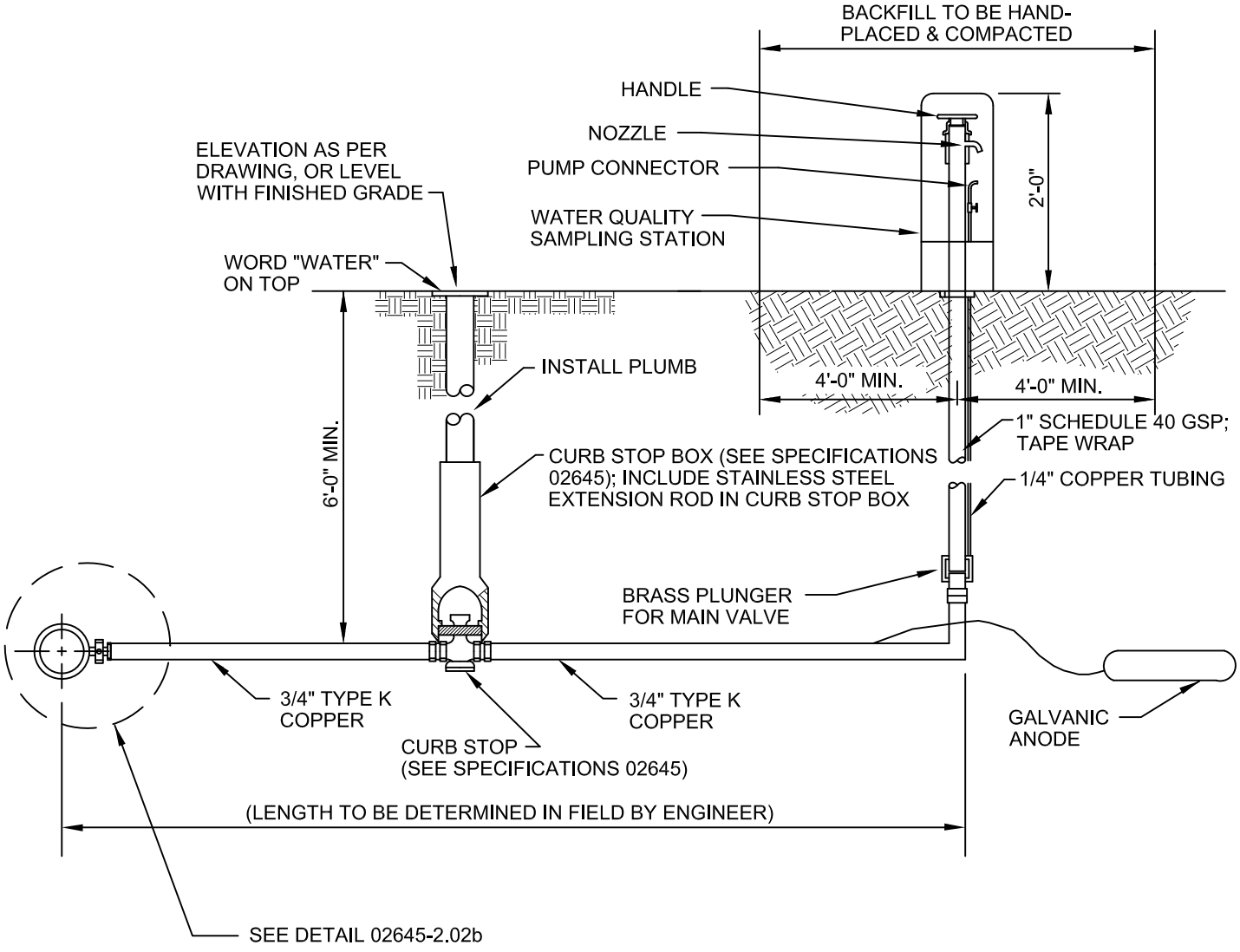
NOTE:
A TYPE II METER PIT CONTAINS A PRV FOR THE SERVICE. A TYPE I PIT IS SIMILAR, BUT IT CONTAINS A SINGLE YOKE FOR THE METER ONLY.

METER PIT WITH PRV (TYPE II) DETAIL

DWG. NO. 02645-2.04Ab

CITY of SHERIDAN

NOVEMBER 2015



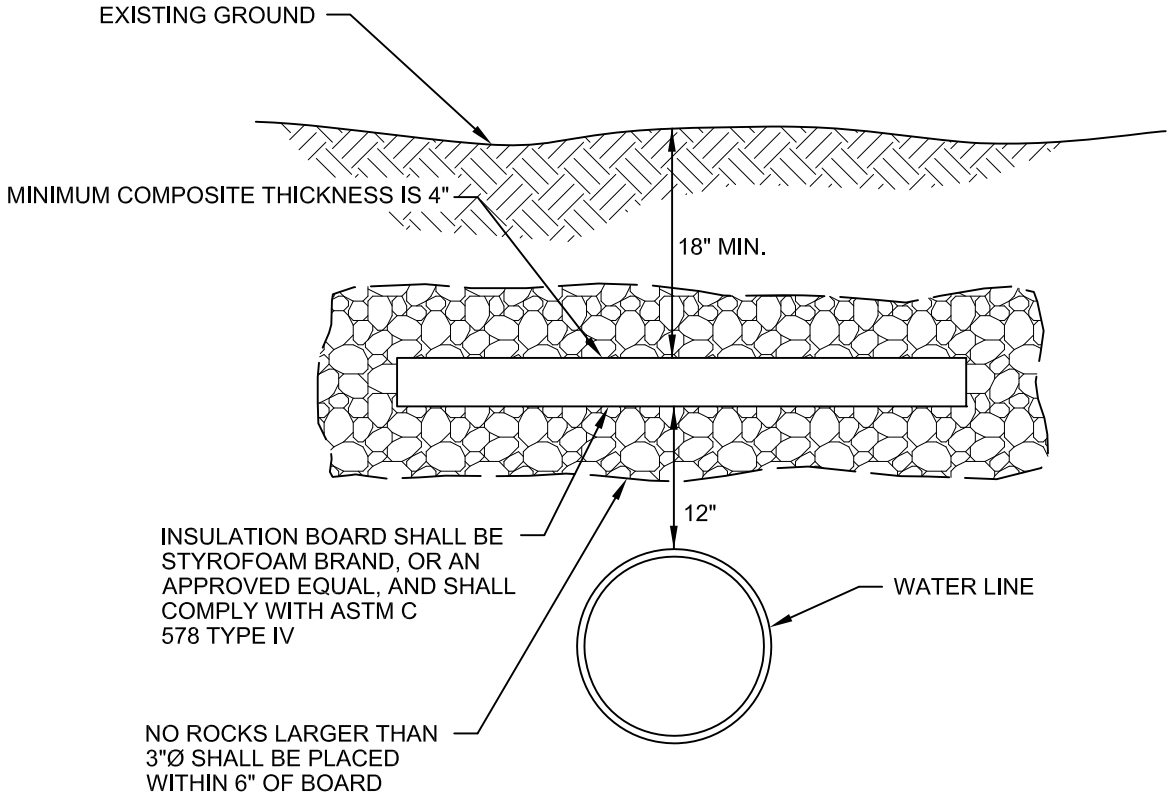
NOT TO SCALE

WATER QUALITY SAMPLING STATION DETAIL

DWG. NO.	02645-2.05

CITY of SHERIDAN

NOVEMBER 2015



NOTES:

1. IF DEPTH OF COVER IS LESS THAN 3.5 FEET, BOARD SHALL EXTEND A MINIMUM OF FOUR FEET EITHER SIDE OF CENTER OF PIPE.
2. IF DEPTH OF COVER IS BETWEEN 3.5 AND 5.5 FEET, BOARD SHALL EXTEND A MINIMUM OF THREE FEET EITHER SIDE OF CENTER OF PIPE.

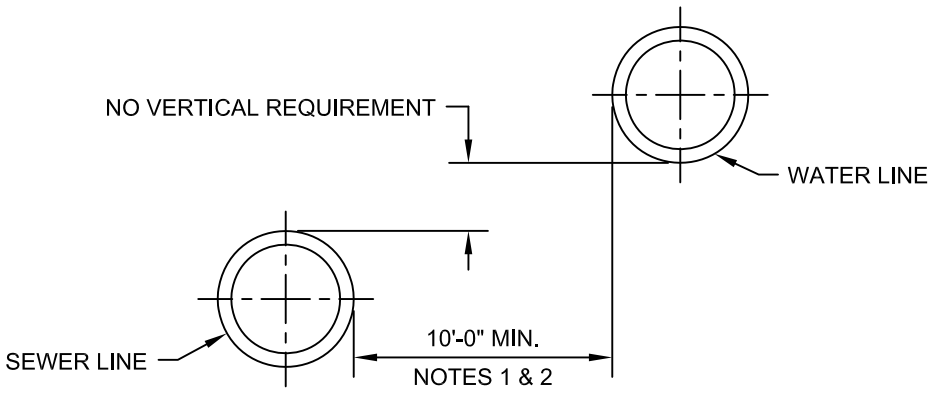
NOT TO SCALE

INSULATION BOARD INSTALLATION DETAIL

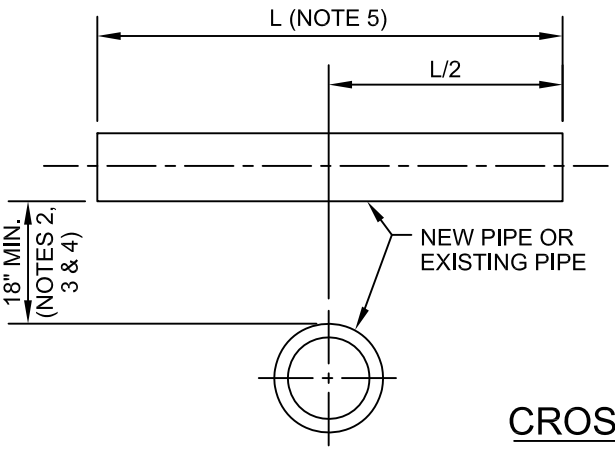
DWG. NO. 02710-2.08

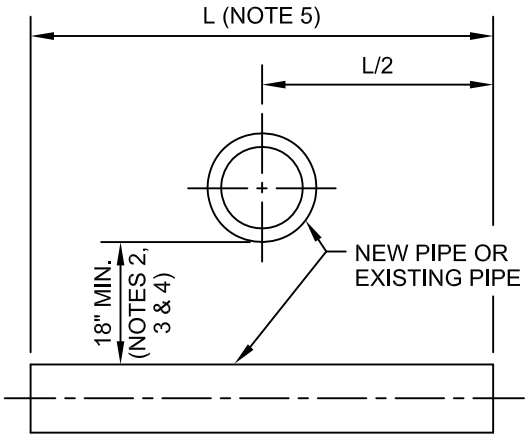
CITY of SHERIDAN

NOVEMBER 2015



PARALLEL ARRANGEMENT





CROSSINGS

(NOTE 5)

NOTES:

1. WHERE THE 10 FOOT HORIZONTAL SEPARATION CANNOT BE MAINTAINED, THIS SEPARATION MAY BE REDUCED TO 5 FEET, PROVIDED THE BOTTOM OF THE WATER LINE IS AT LEAST 18 INCHES HIGHER THAN THE TOP OF THE SEWER LINE. WHERE THE REQUIREMENTS FOR THE BOTTOM OF THE WATER LINE TO BE AT LEAST 18 INCHES HIGHER THAN THE TOP OF THE SEWER LINE CANNOT BE MET, SEE THE SPECIFICATIONS.

2. NO EXCEPTION TO THE MINIMUM HORIZONTAL OR VERTICAL SEPARATION REQUIREMENTS ARE PERMITTED WHEN THE SEWAGE-CARRYING PIPE IS A FORCE MAIN.

3. AT CROSSINGS, ONE FULL LENGTH OF WATER LINE PIPE SHALL BE LOCATED SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER LINE AS POSSIBLE.

4. LESS THAN 18 INCHES OF SEPARATION IS PERMITTED WHEN THE GRAVITY SEWER LINE AT THE CROSSING IS MADE FROM A SINGLE 20-FOOT LENGTH OF PIPE, THE CROSSING ANGLE IS 90 DEGREES, AND THE SEWER PIPE PASSES A PRESSURE TEST (SEE SPECIFICATIONS).

5. "L" IS A STANDARD LENGTH OF PIPE AS SUPPLIED BY A PIPE MANUFACTURER.

6. ADEQUATE STRUCTURAL SUPPORT (FLOWABLE FILL) FOR PIPES AT CROSSINGS SHALL BE PROVIDED.

7. WHEN THE REQUIRED HORIZONTAL AND / OR VERTICAL SEPARATIONS BETWEEN WATER LINES AND SEWER LINES CANNOT BE MET, THE SEWER MAY BE ENCASED IN ONE FOOT OF FLOWABLE FILL (SEE SPECIFICATIONS).

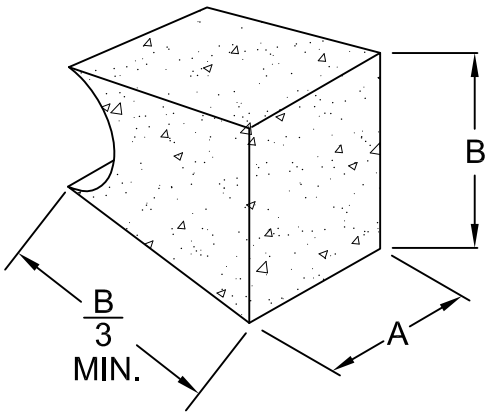
NOT TO SCALE

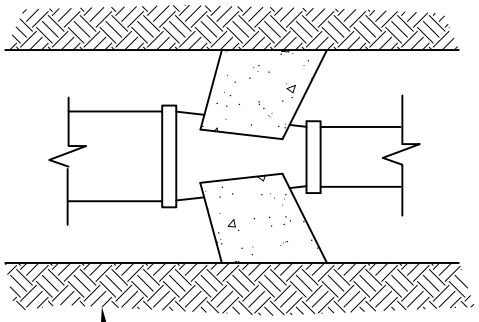
WATER AND SEWER LINE SEPARATION DETAIL

DWG. NO. 02710-3.01H

CITY of SHERIDAN

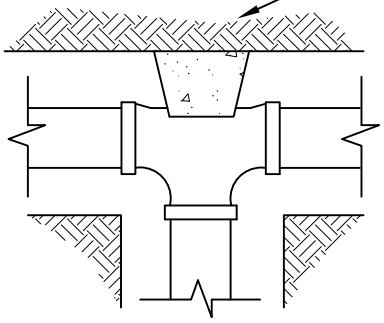
NOVEMBER 2015



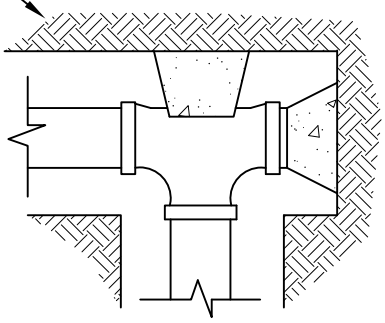


REDUCER

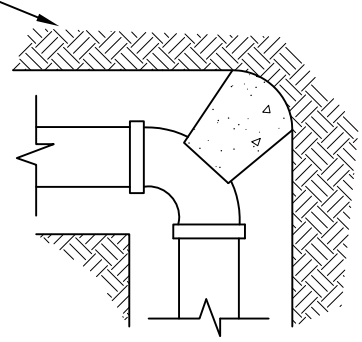
UNDISTURBED EARTH



TEE



TEE (Plugged)



BEND

DIMENSIONS FOR THRUST BLOCKING

FITTING SIZES	TEES & PLUGS		90° BENDS		45° BENDS & WYES		REDUCERS & 22 1/2° BENDS	
	A	B	A	B	A	B	A	B
4"	1'-7"	1'-2"	1'-9"	1'-6"	1'-8"	0'-10"	1'-7"	0'-6"
6"	2'-0"	1'-11"	2'-5"	2'-2"	1'-10"	1'-7"	1'-9"	0'-10"
8"	2'-8"	2'-6"	3'-2"	3'-0"	2'-5"	2'-1"	1'-9"	1'-6"
10"	3'-4"	3'-3"	4'-0"	3'-10"	3'-0"	2'-9"	2'-2"	1'-11"
12"	4'-0"	3'-10"	4'-8"	4'-8"	3'-8"	3'-3"	2'-7"	2'-3"
14"	5'-5"	3'-10"	6'-6"	4'-11"	4'-9"	3'-5"	3'-5"	2'-5"
16"	6'-0"	5'-0"	6'-0"	5'-0"	6'-0"	4'-0"	4'-6"	3'-0"

NOTES:

1. THIS TABLE IS BASED ON 150 PSI WATER MAIN PRESSURE AND 2000 PSF SOIL BEARING PRESSURE.
2. USE POLYETHYLENE TO SEPARATE FITTINGS FROM THE CONCRETE.
3. FOR PLUGS, PLACE A HEAVY, METAL RING ON TOP OF PLUG FOR FUTURE REMOVAL OF THE THRUST BLOCK.
4. ALL THRUST BLOCKS SHALL BE FORMED AND POURED AGAINST UNDISTURBED SOIL; CONCRETE SHALL BE CLASS "B".

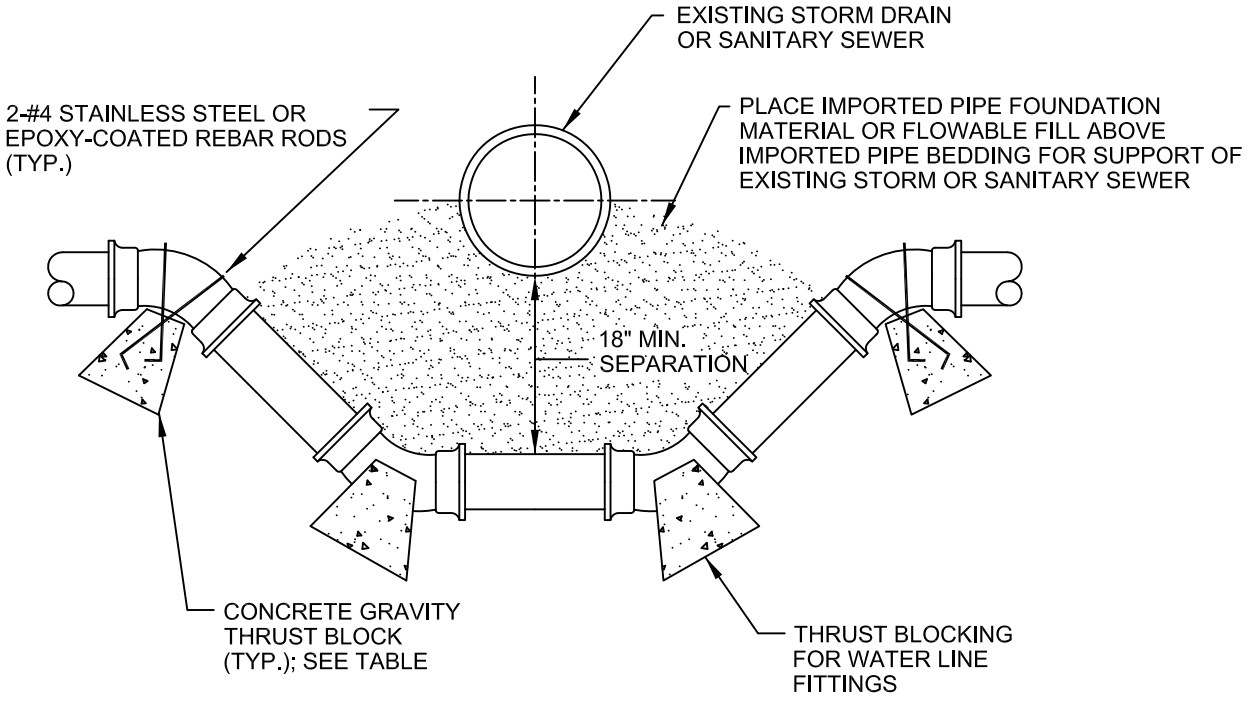
NOT TO SCALE

THRUST BLOCKING FOR WATER LINE FITTINGS DETAIL

DWG. NO. 02710-3.01la

CITY of SHERIDAN

NOVEMBER 2015



GRAVITY THRUST BLOCK - CY BASED ON 150 PSI MAIN PRESSURE		
PIPE SIZE	45° BEND	22 1/2° BEND
6"	1.0	0.5
8"	1.5	0.6
10"	2.0	0.8
12"	3.0	1.0

NOTE: USE POLYETHYLENE TO SEPARATE FITTINGS FROM THE CONCRETE.

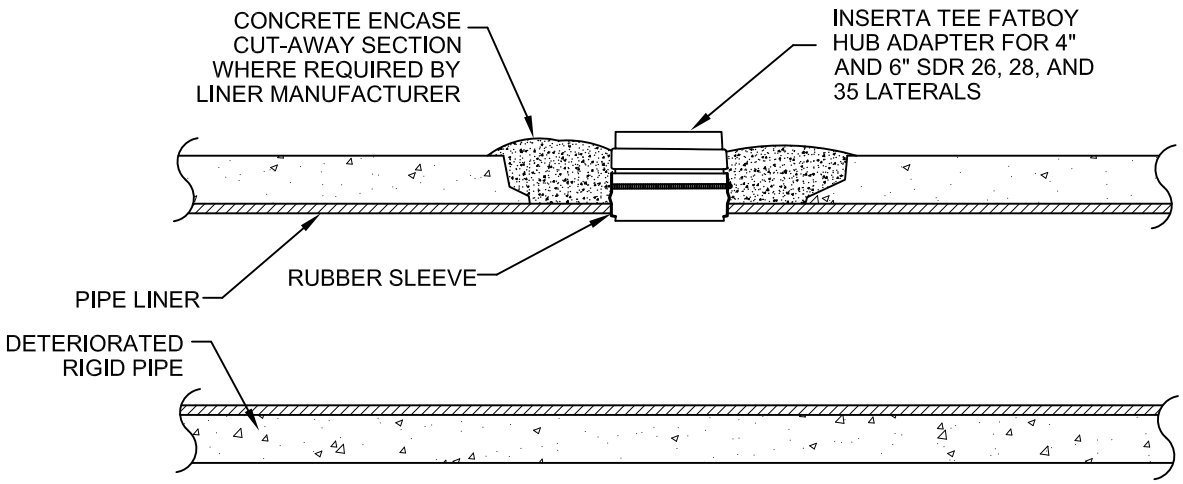
NOT TO SCALE

THRUST BLOCKING FOR WATER LINE FITTINGS DETAIL

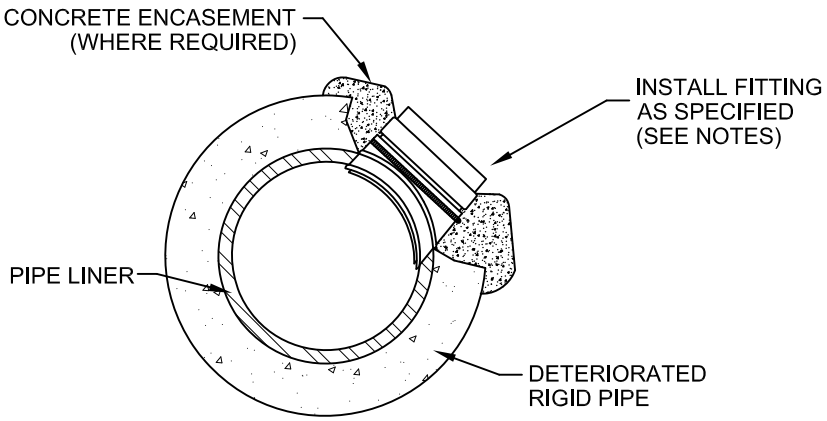
DWG. NO. 02710-3.01lb

CITY of SHERIDAN

NOVEMBER 2015



PLAN



SECTION

NOTES:
1. AREA TO BE TAPPED SHALL BE MARKED ON RIGID PIPE, 2 INCHES LARGER THAN DIAMETER OF INSERTA TEE FITTING.
2. RIGID PIPE AT TAPPING AREA SHALL BE REMOVED BY HAND WITH CHISEL, EXPOSING LINER SECTION.
3. LINER SURFACE SHALL BE BRUSHED AND CLEANED, WITH ALL DAMAGED SECTIONS OF RIGID PIPE IN THE AREA REMOVED.
4. HOLE SHALL BE CORED INTO LINER USING AN APPROPRIATE INSERTA TEE HOLE SAW.
5. INSERTA TEE FITTING SHALL BE INSTALLED IN ACCORDANCE WITH INSTALLATION INSTRUCTIONS PROVIDED BY MANUFACTURER.
6. CUT-OUT SECTION OF RIGID PIPE SHALL BE ENCASED IN CONCRETE WHERE REQUIRED BY LINER MANUFACTURER.
7. INSTALL ALL OTHER COMPONENTS OF SANITARY SEWER SERVICE LINE IN ACCORDANCE WITH DWG. NO. 02712-2.01Db.

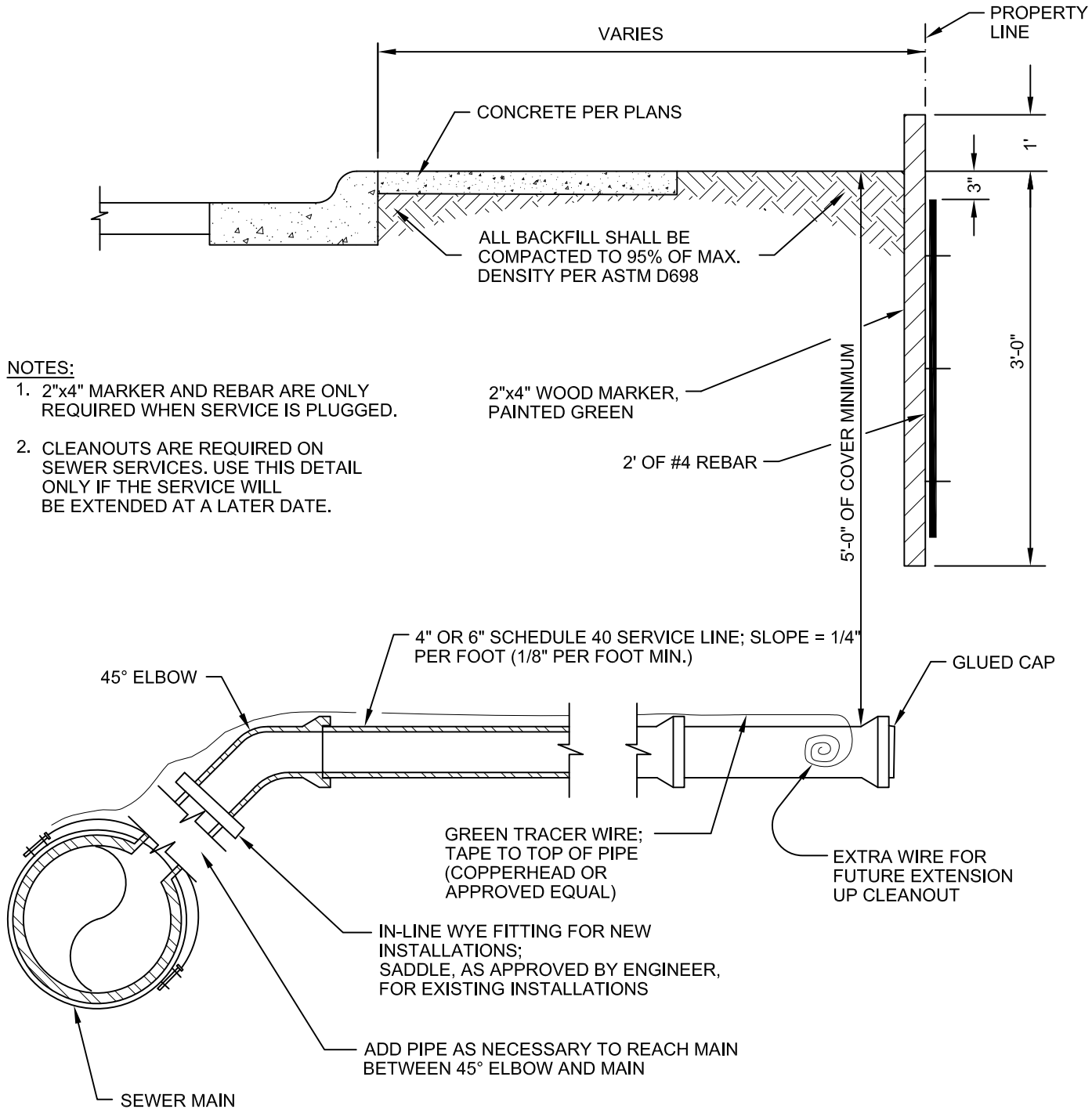
NOT TO SCALE

SANITARY SEWER SERVICE LINE TAPPING LINED MAIN USING INSERTA TEE ® DETAIL

DWG. NO. 02712-2.01C

CITY of SHERIDAN

NOVEMBER 2015



NOTES:

1. 2"x4" MARKER AND REBAR ARE ONLY REQUIRED WHEN SERVICE IS PLUGGED.
2. CLEANOUTS ARE REQUIRED ON SEWER SERVICES. USE THIS DETAIL ONLY IF THE SERVICE WILL BE EXTENDED AT A LATER DATE.

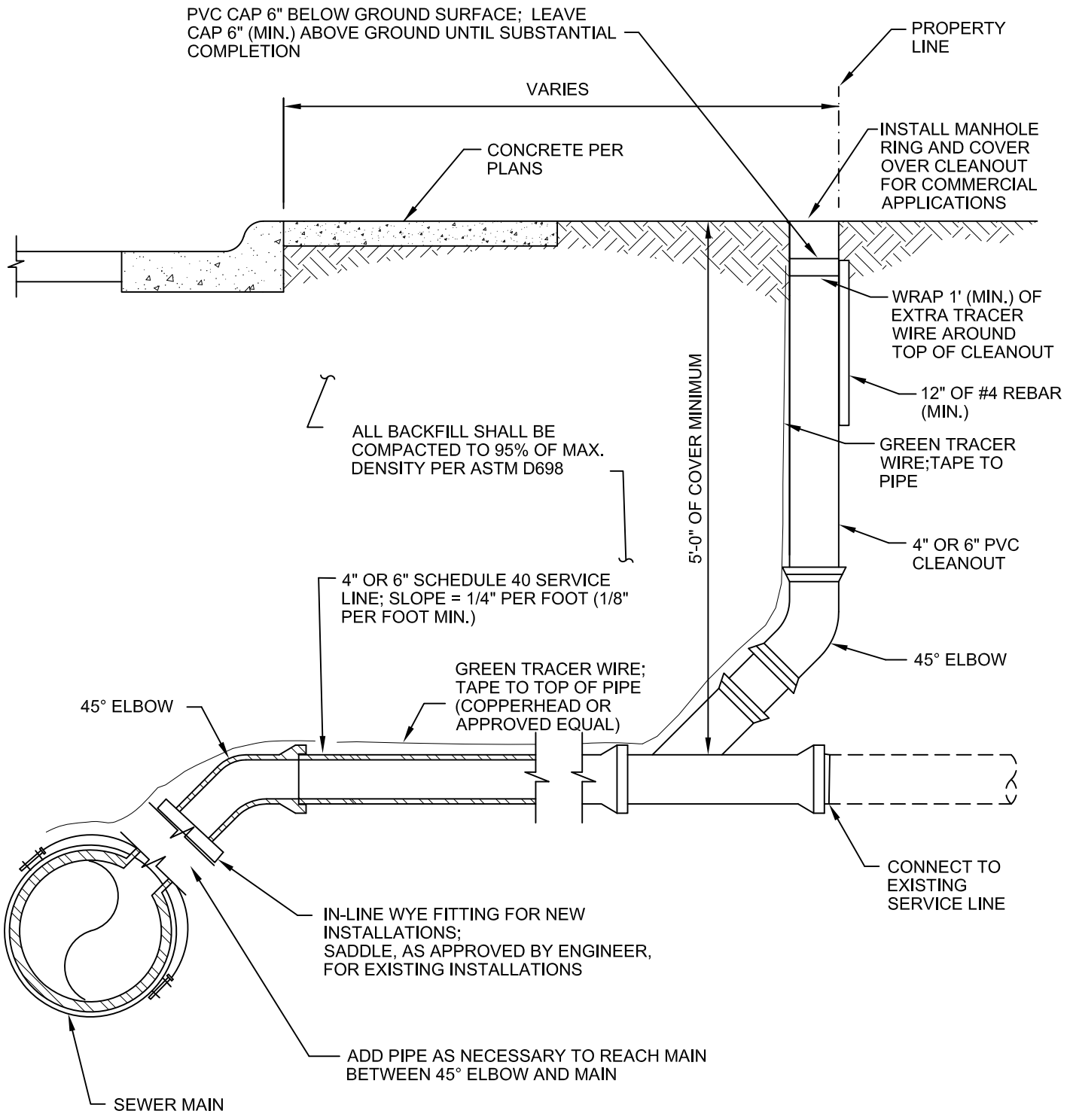
NOT TO SCALE

SANITARY SEWER SERVICE LINE DETAIL (NEW CONSTRUCTION ONLY)

DWG. NO. 02712-2.01Da

CITY of SHERIDAN

NOVEMBER 2015



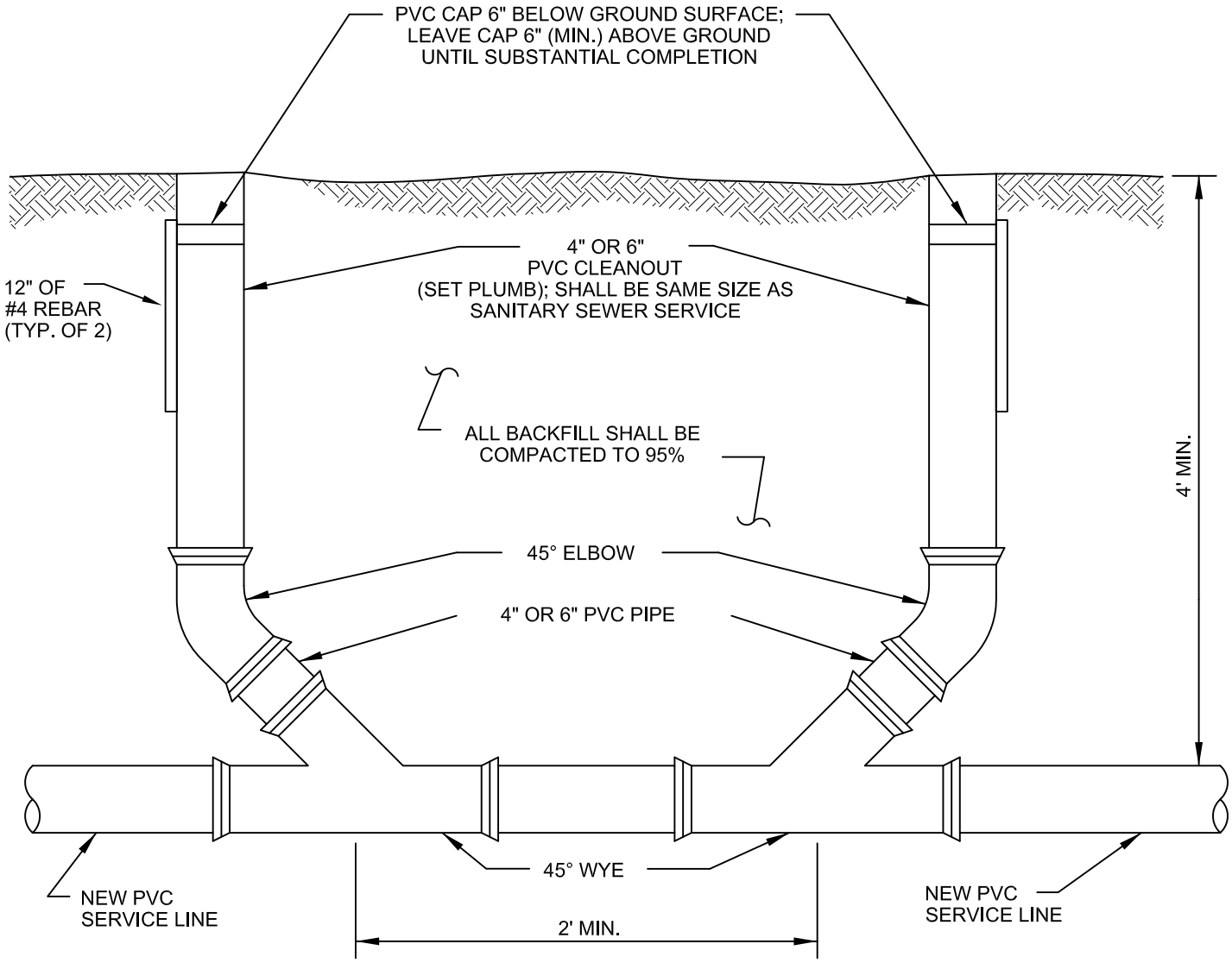
NOT TO SCALE

SANITARY SEWER SERVICE LINE WITH CLEANOUT DETAIL (RECONSTRUCTION PROJECTS)

DWG. NO. 02712-2.01Db

CITY of SHERIDAN

NOVEMBER 2015



NOTES:

1. LOCATIONS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.

2. FOR CLEANOUTS IN A DRIVEWAY OR ROAD, INSTALL A 2' SQ. CONCRETE COLLAR WITH A RECESSED METAL CAP FOR CLEANOUT.

3. ALL SANITARY SEWER PIPES & FITTINGS SHALL BE SCHEDULE 40 PVC.

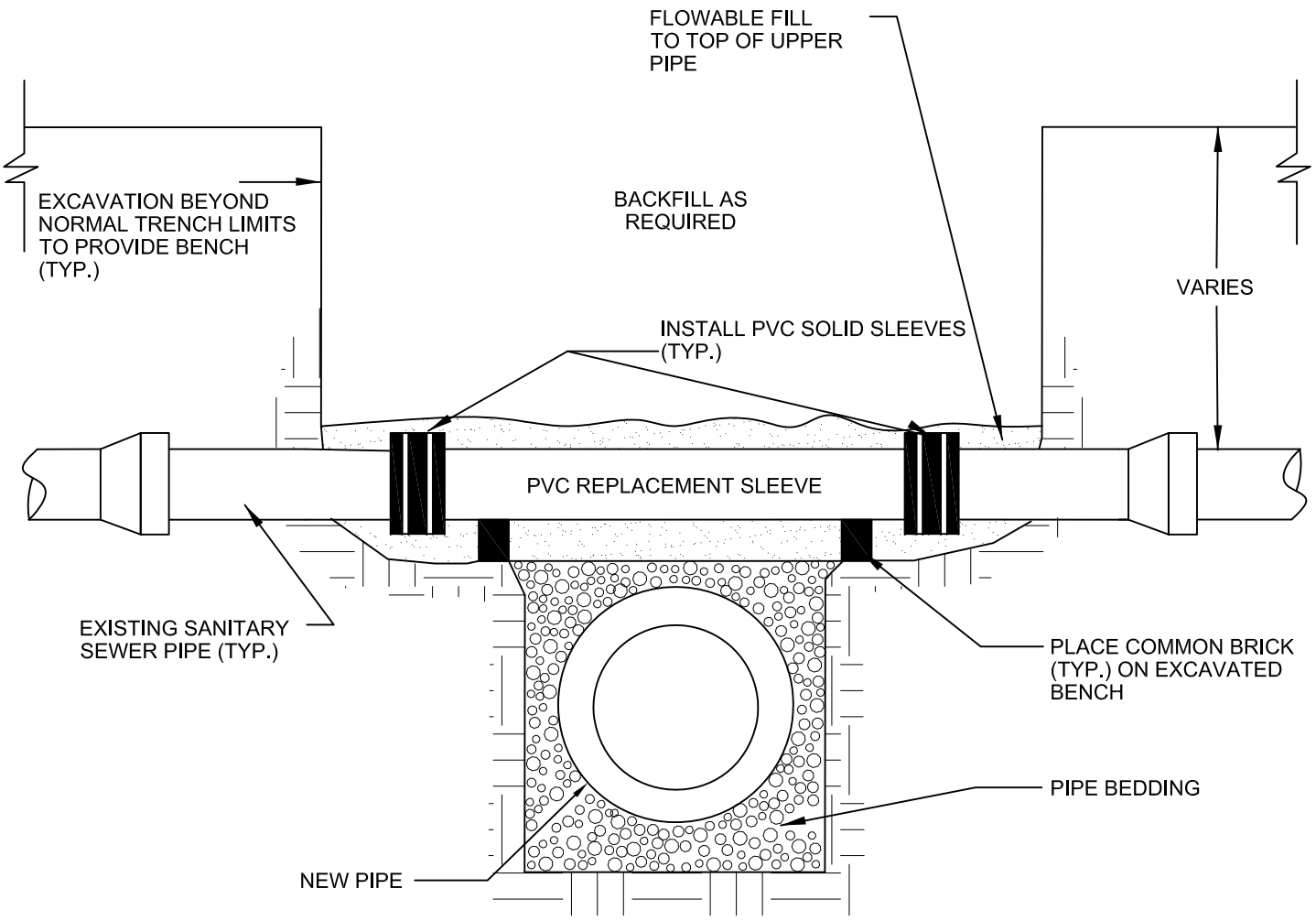
NOT TO SCALE

TWO-WAY SANITARY SEWER CLEANOUT DETAIL

DWG. NO. 02712-2.01Dc

CITY of SHERIDAN

NOVEMBER 2015



NOTES:

1. PVC REPLACEMENT SLEEVES SHALL BE REQUIRED WHEN NEW OR EXISTING SANITARY SEWER PIPE IS DAMAGED DURING CONSTRUCTION.
2. SEE SANITARY SEWER TRENCH DETAIL FOR BACKFILL AND COMPACTION REQUIREMENTS.
3. NO SEPARATE PAYMENT SHALL BE MADE FOR WORK OR MATERIALS REQUIRED TO ACCOMPLISH BRIDGING IN ACCORDANCE WITH THE DETAIL.

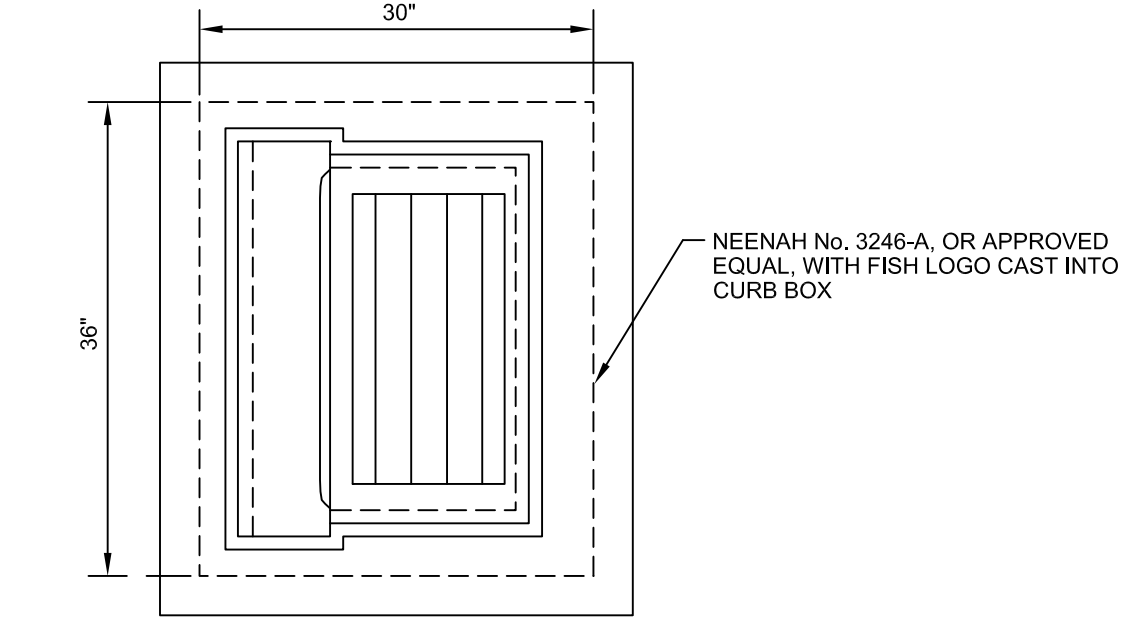
NOT TO SCALE

BRIDGING AT SANITARY SEWER CROSSING DETAIL

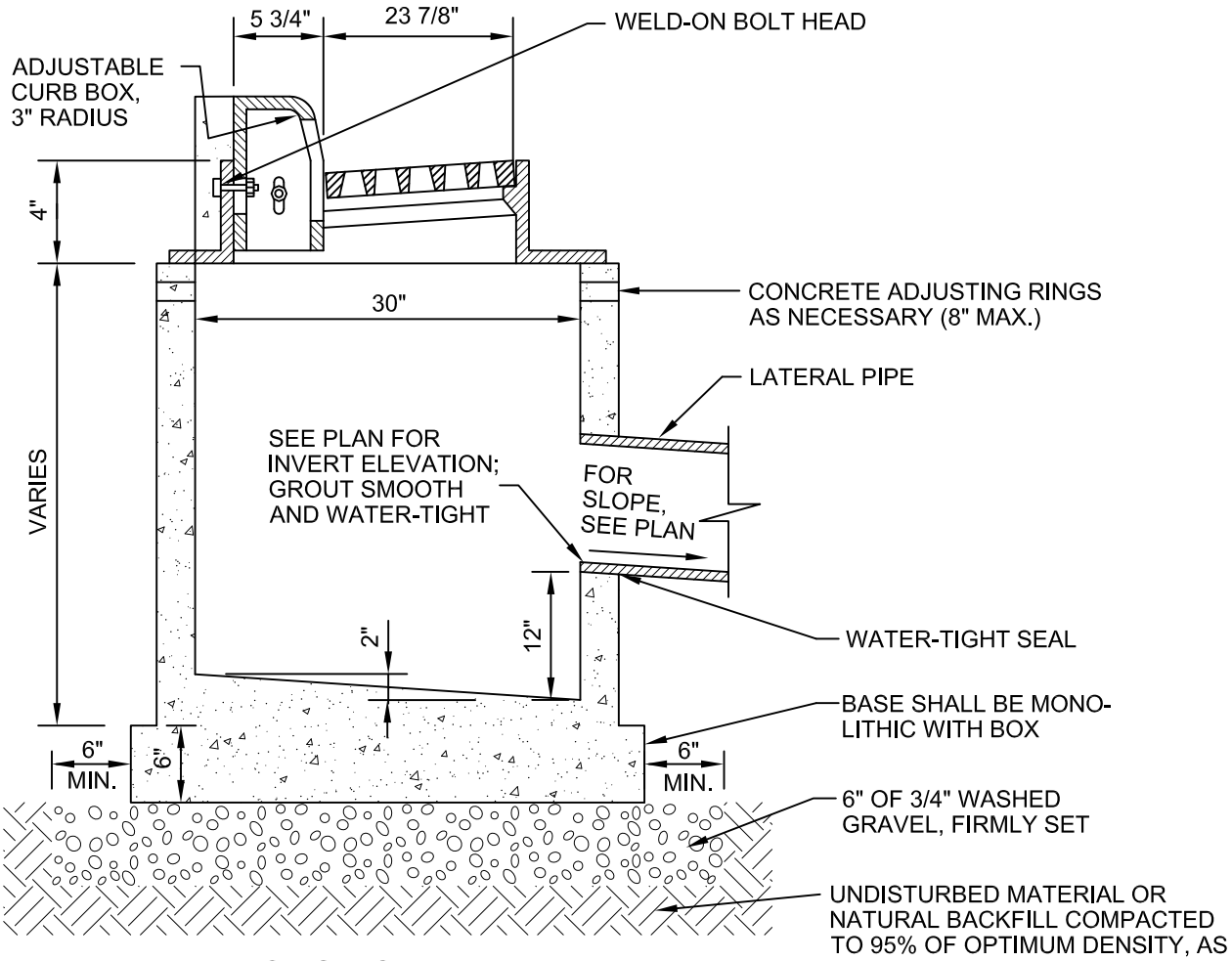
DWG. NO. 02712-3.01 I

CITY of SHERIDAN

NOVEMBER 2015



PLAN



SECTION

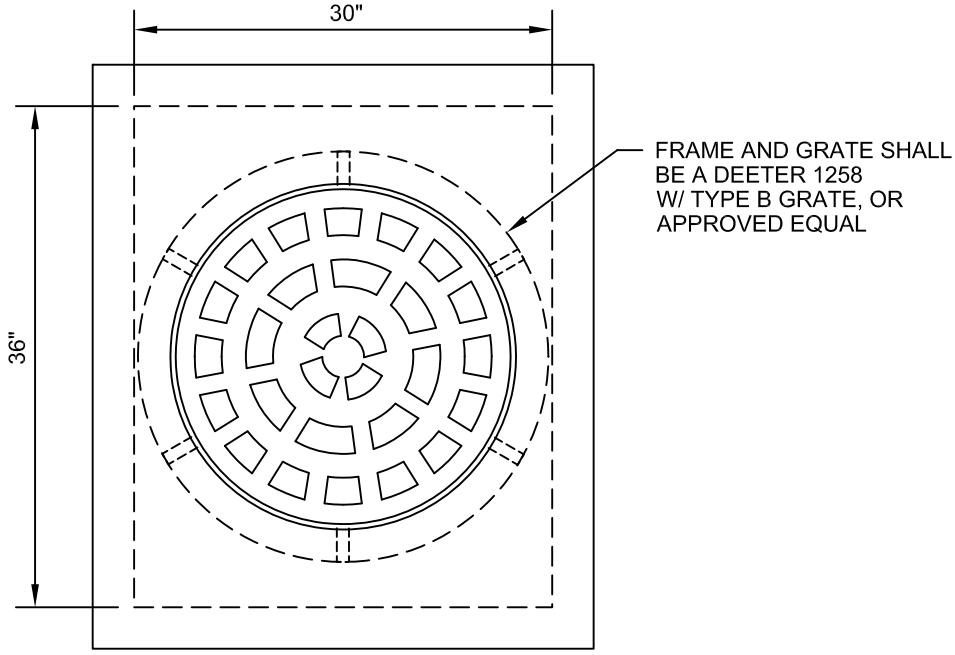
NOT TO SCALE

TYPE A STORM DRAIN INLET / CATCH BASIN DETAIL

DWG. NO. 02720-2.01a

CITY of SHERIDAN

NOVEMBER 2015



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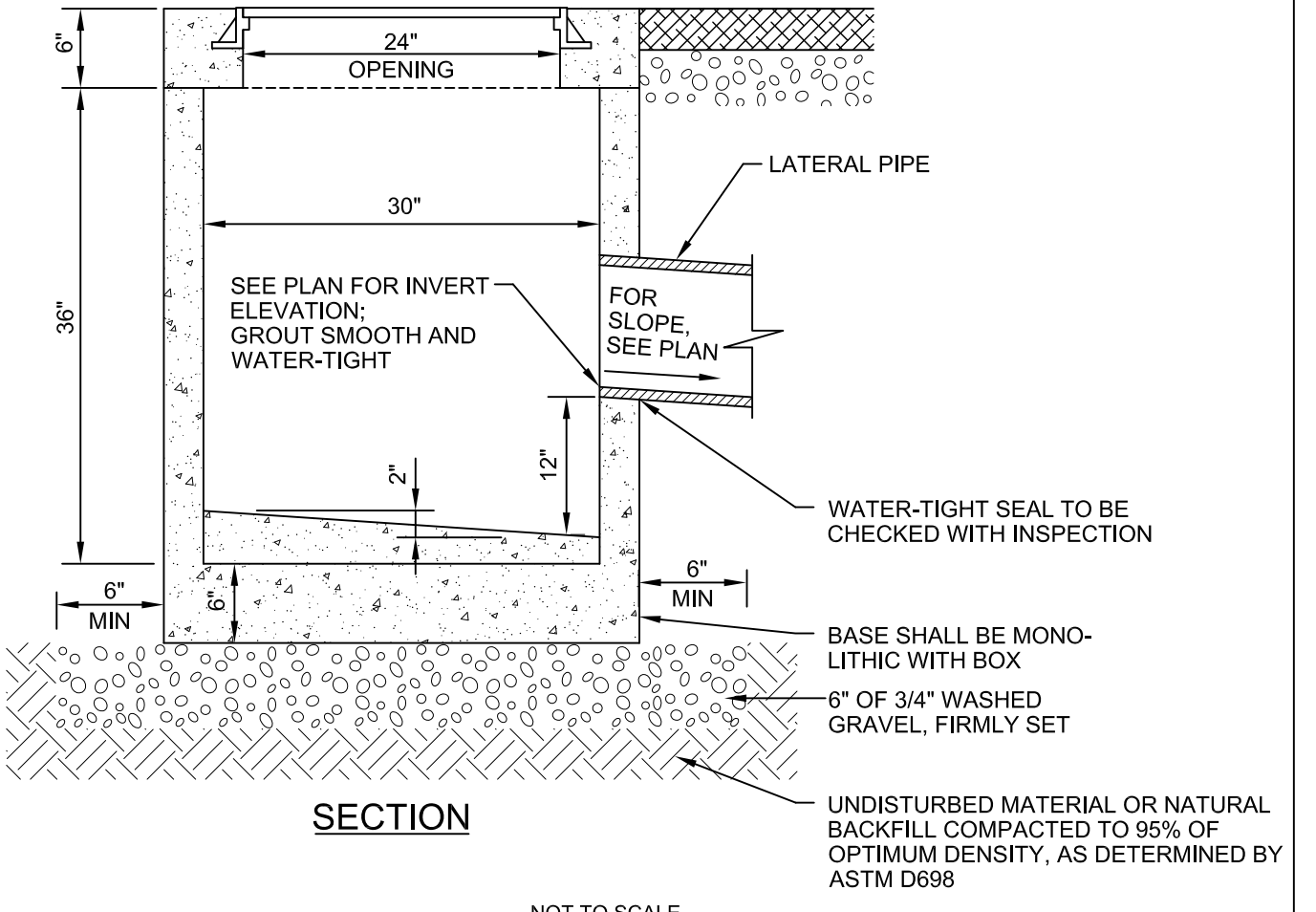


SECTION

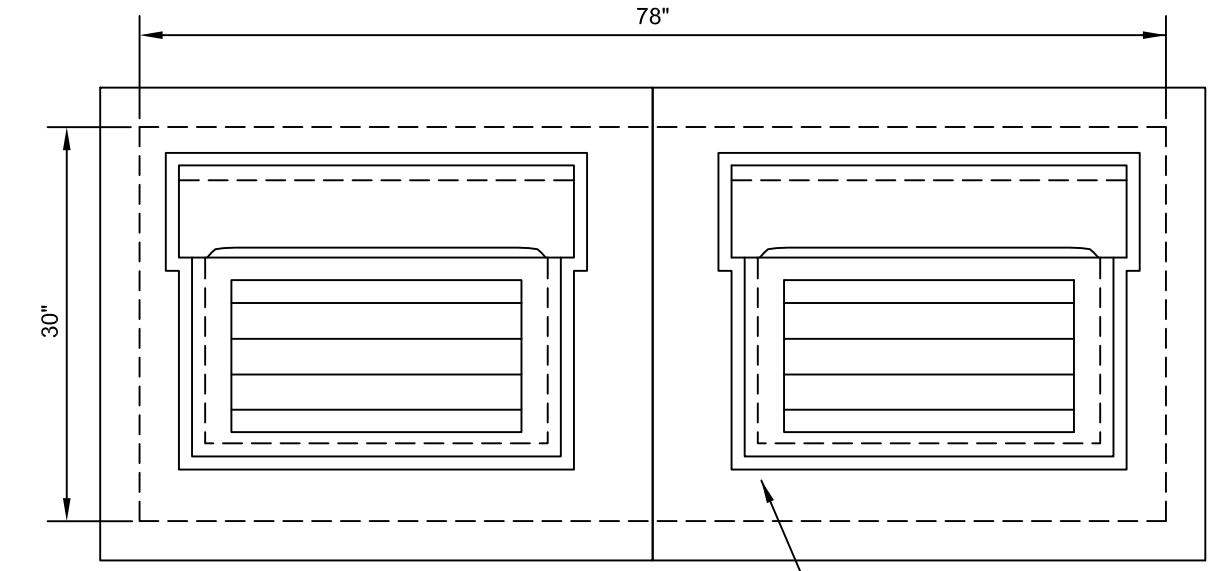
NOT TO SCALE

TYPE B STORM DRAIN
INLET / CATCH BASIN DETAIL

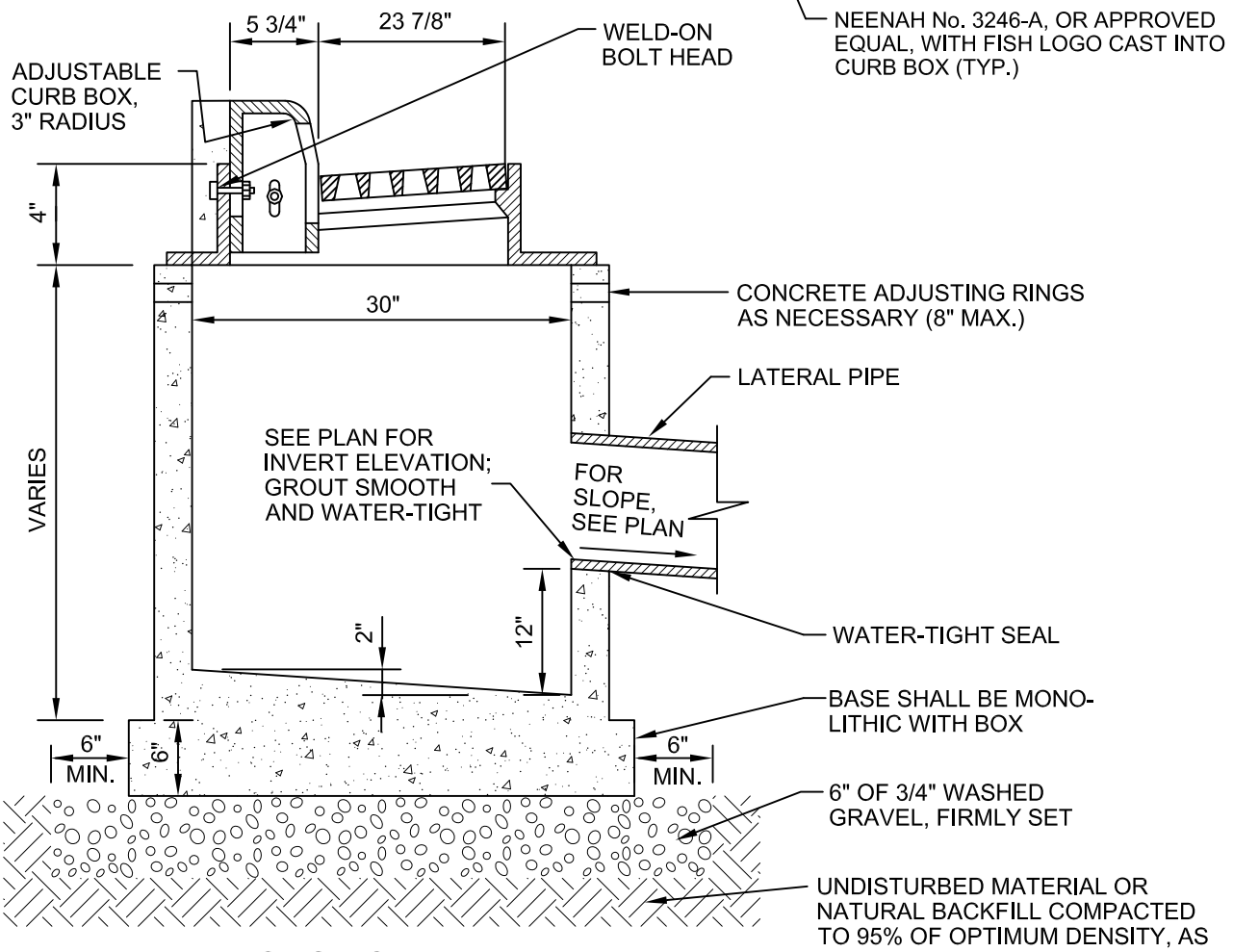
DWG. NO. 02720-2.01b

CITY of SHERIDAN

NOVEMBER 2015



PLAN



SECTION

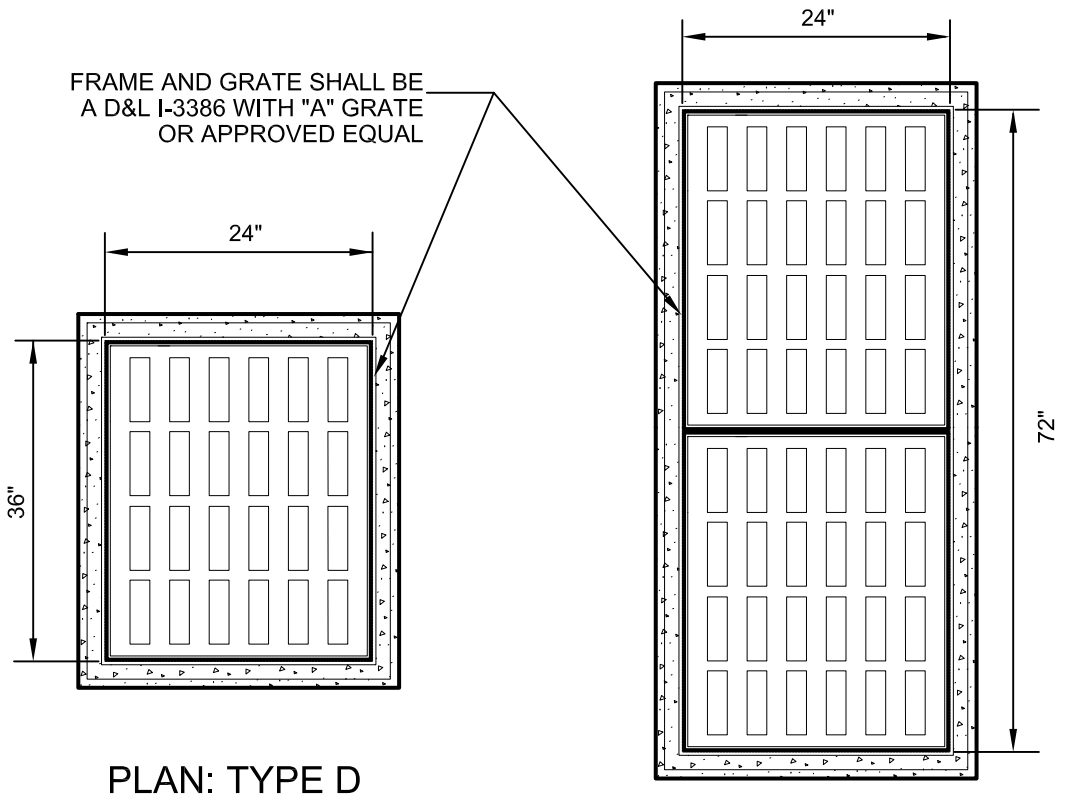
NOT TO SCALE

TYPE C STORM DRAIN INLET / CATCH BASIN DETAIL

DWG. NO. 02720-2.01c

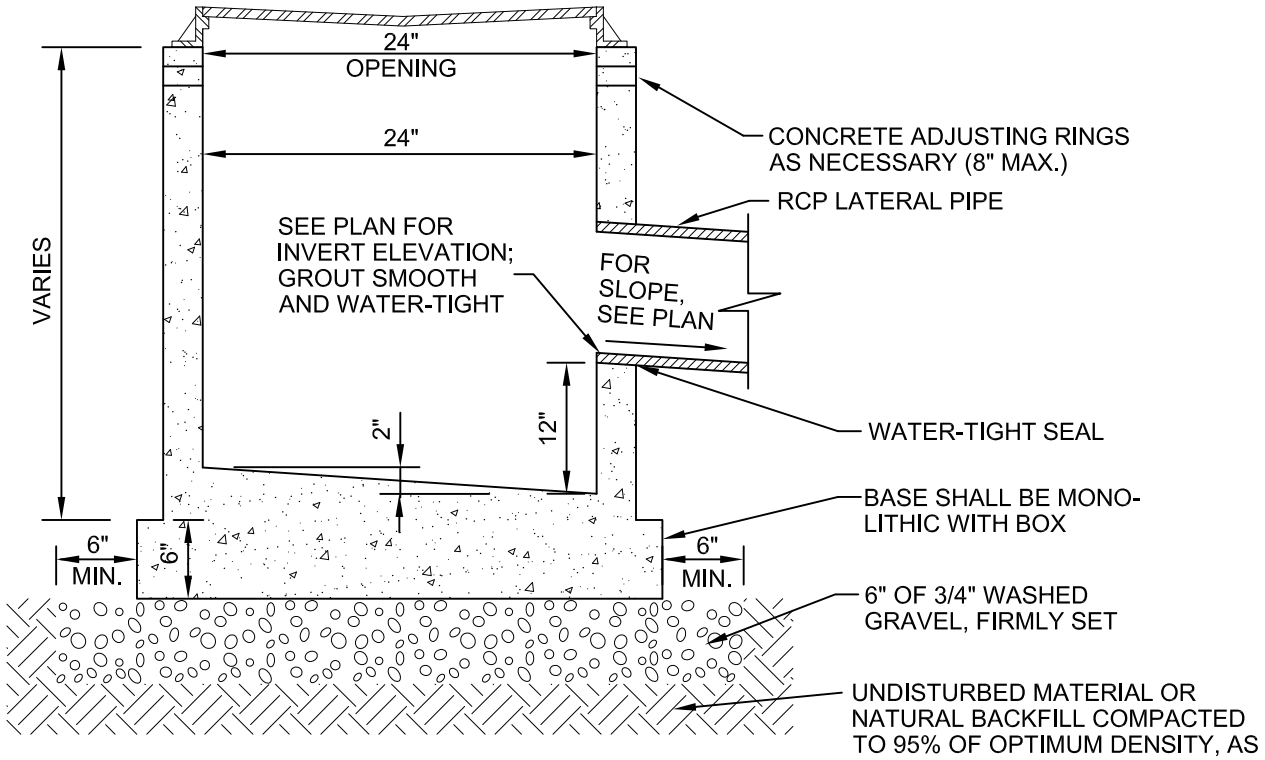
CITY of SHERIDAN

NOVEMBER 2015



PLAN: TYPE D

PLAN: TYPE E



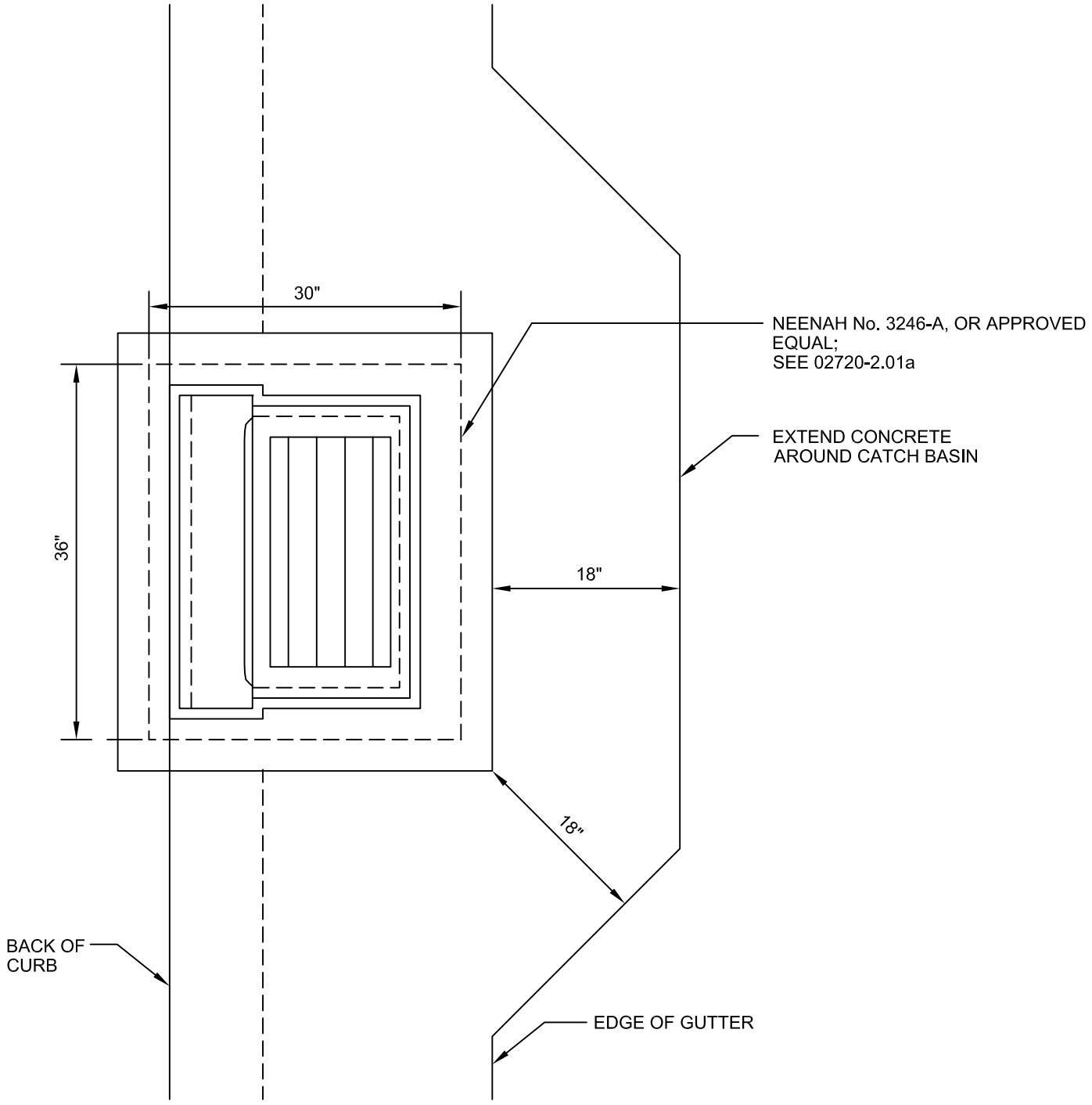
SECTION: TYPES D&E NOT TO SCALE

TYPE D & TYPE E STORM DRAIN INLET / CATCH BASIN DETAIL

DWG. NO. 02720-2.01d

CITY of SHERIDAN

NOVEMBER 2015



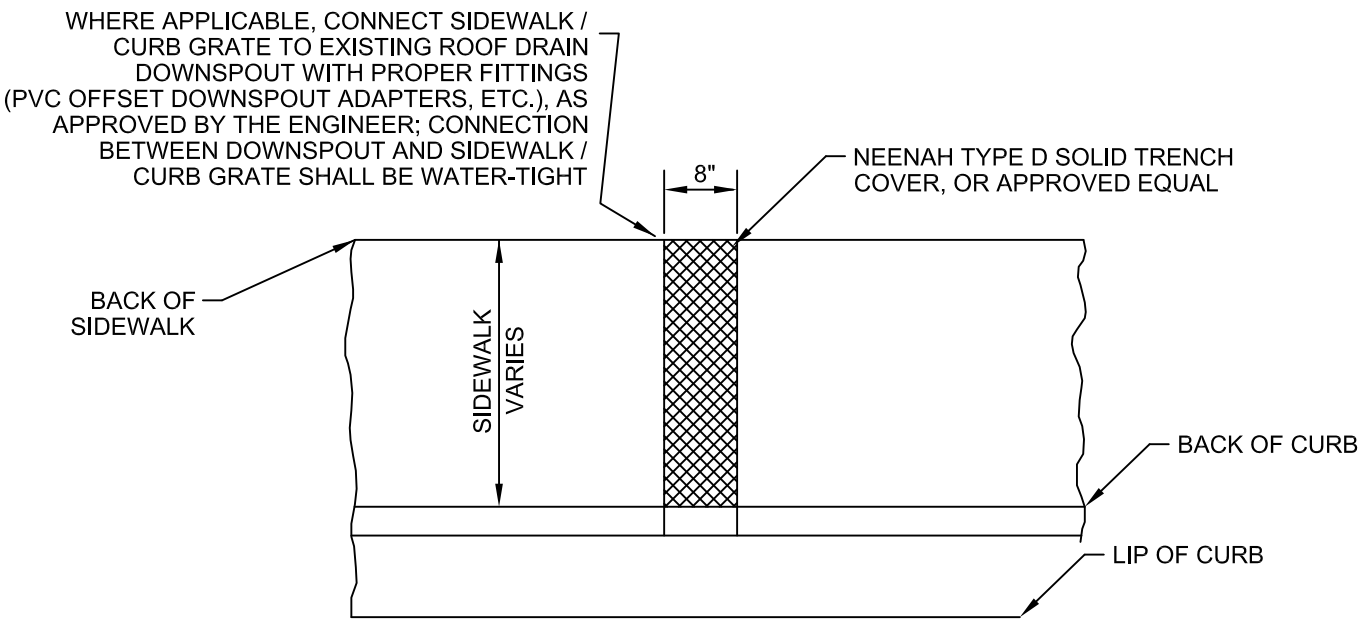
NOT TO SCALE

CURB & GUTTER BOX-OUT FOR TYPE A STORM DRAIN INLET / CATCH BASIN DETAIL

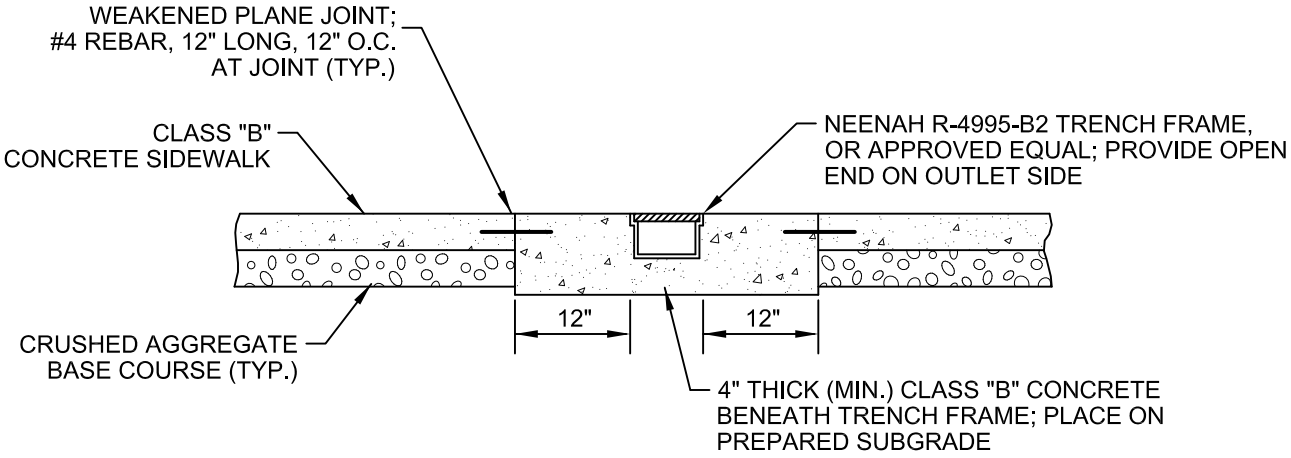
DWG. NO. 02720-2.01e

CITY of SHERIDAN

NOVEMBER 2015



PLAN



SECTION

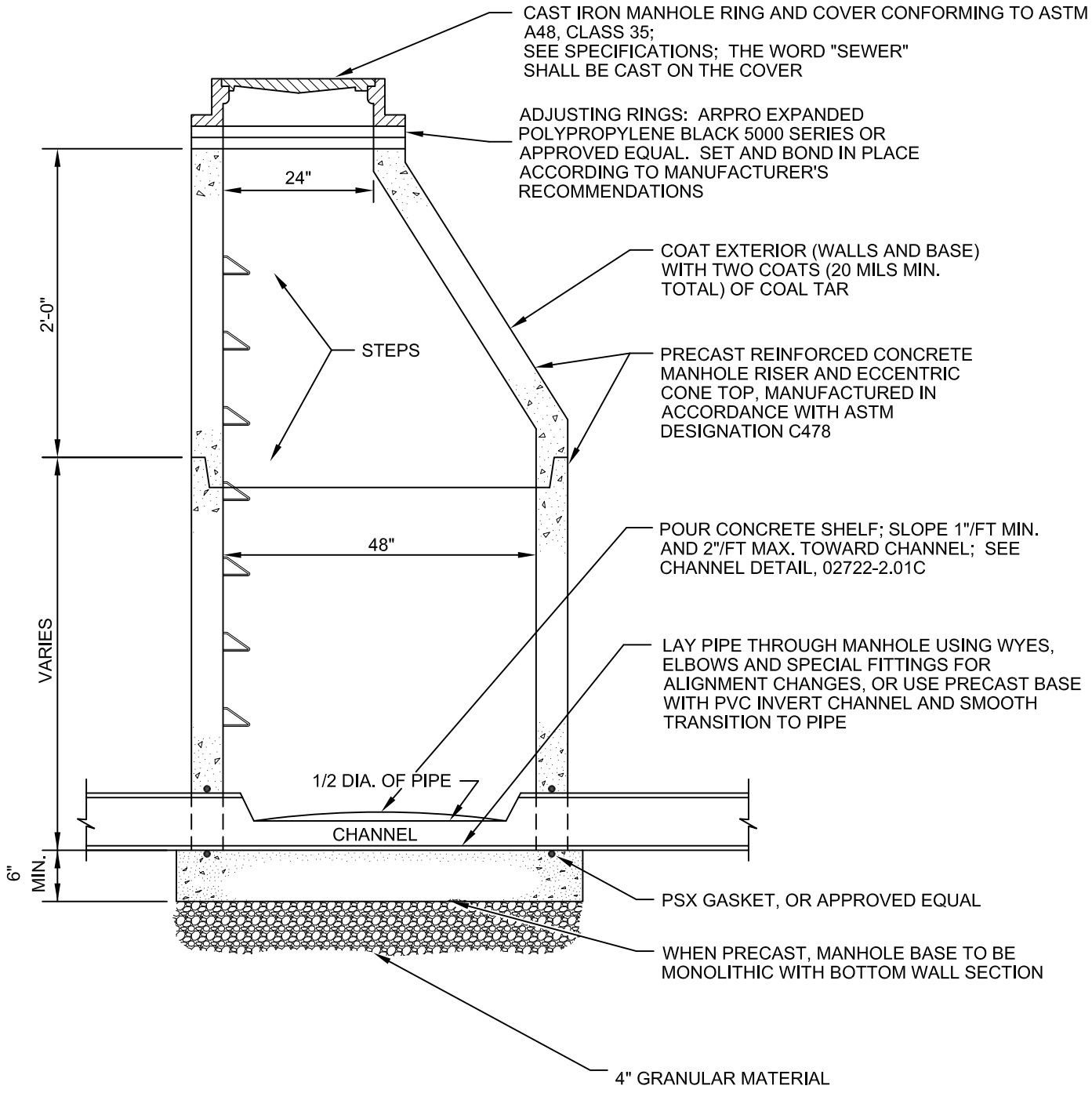
NOT TO SCALE

SIDEWALK / CURB GRATE DETAIL

DWG. NO.	02720-2.01f

CITY of SHERIDAN

NOVEMBER 2015



NOTES:

1. PROVIDE AND INSTALL NOT MORE THAN 8" OF ADJUSTING RINGS FOR EACH MANHOLE. ADJUST RINGS AND COVER TO GRADE ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
2. ALL JOINTS BETWEEN MANHOLE SECTIONS SHALL BE RUBBER-NEK OR EQUAL.
3. HAND-COMPACT AROUND MANHOLE FOR FULL DEPTH OF BACKFILL. COMPACTION TESTING SHALL BE IN COMPLIANCE WITH SECTION 02221 - 1.03.
4. ALL PENETRATIONS TO BE WATER-TIGHT.

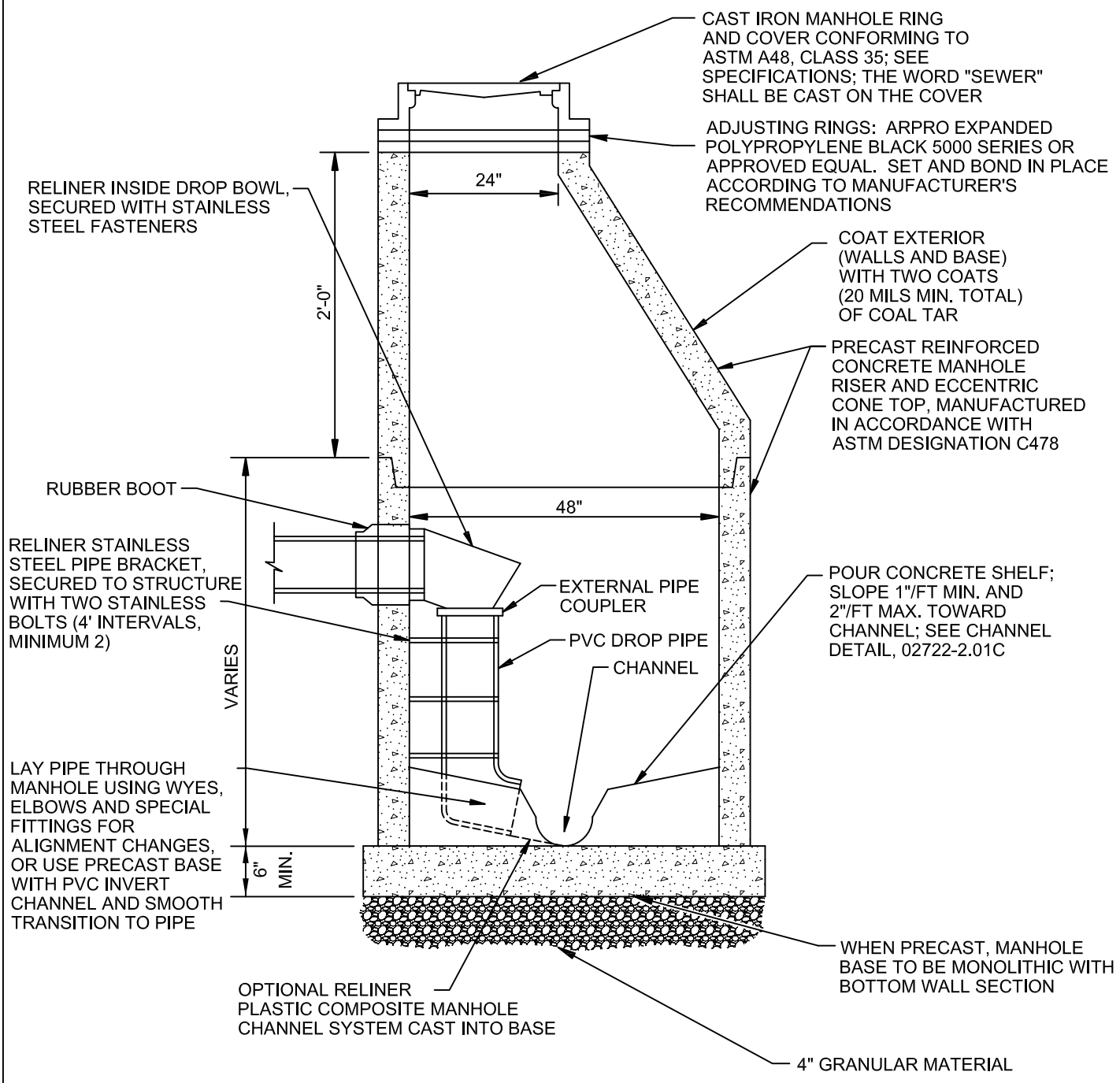
NOT TO SCALE

ECCENTRIC CONE SANITARY SEWER MANHOLE DETAIL

DWG. NO. 02722-2.01a

CITY of SHERIDAN

NOVEMBER 2015



NOTES:

1. PROVIDE AND INSTALL NOT MORE THAN 8" OF ADJUSTING RINGS FOR EACH MANHOLE. ADJUST RINGS AND COVER TO GRADE ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
2. ALL JOINTS BETWEEN MANHOLE SECTIONS SHALL BE RUBBER-NEK OR EQUAL.
3. HAND-COMPACT AROUND MANHOLE FOR FULL DEPTH OF BACKFILL. COMPACTION TESTING SHALL BE IN COMPLIANCE WITH SECTION 02221 - 1.03.
4. ALL PENETRATIONS TO BE WATER-TIGHT.
5. SUPPLY DESIGN AND REINFORCING STEEL FOR HS-20 LOADING.

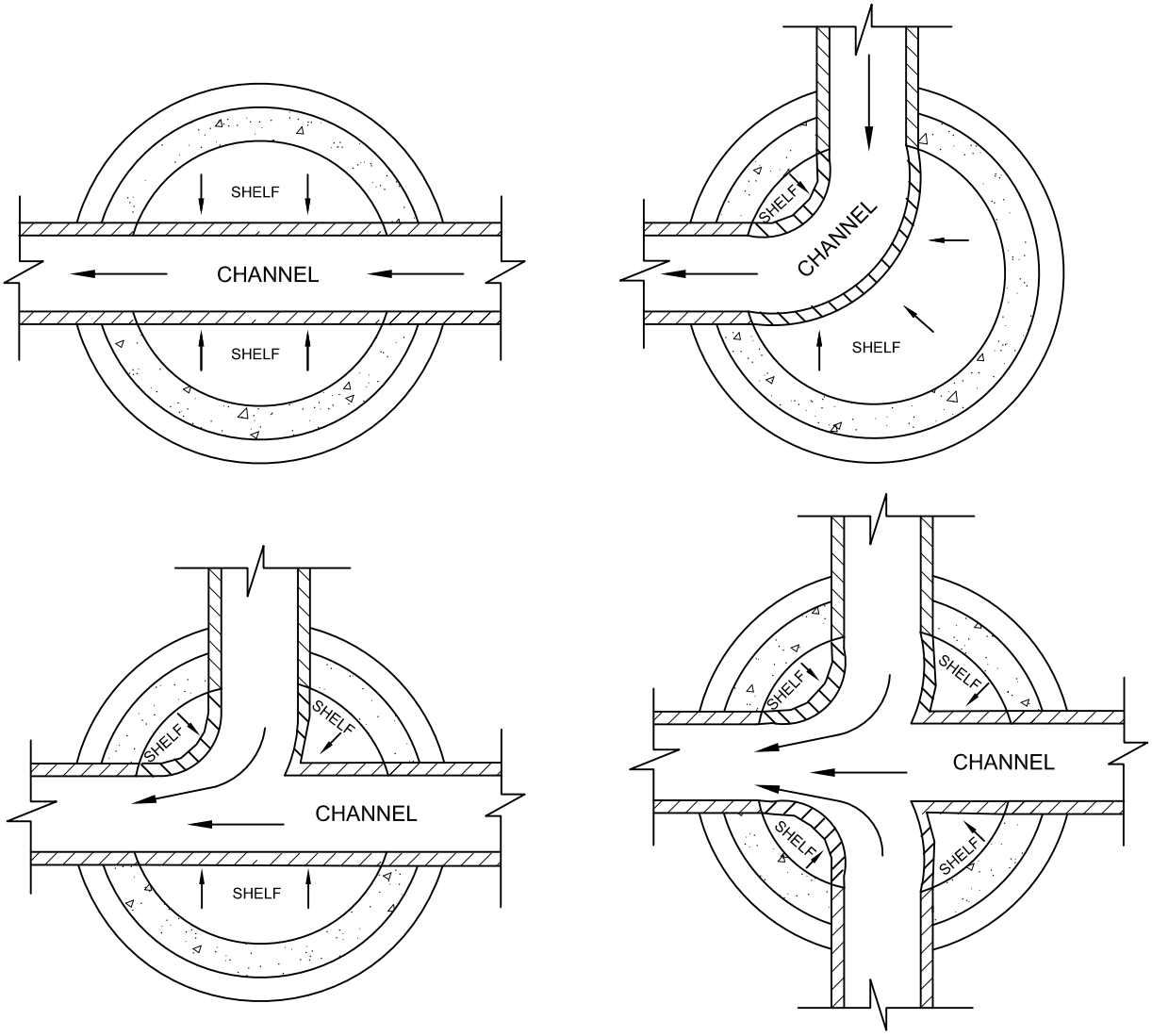
NOT TO SCALE

TYPICAL DROP MANHOLE DETAIL

DWG. NO. 02722-2.01b

CITY of SHERIDAN

NOVEMBER 2015



NOTES:

1. SLOPE ALL SHELVES TO CHANNEL AT 1" PER FOOT, MINIMUM, AND 2" PER FOOT, MAXIMUM.

2. SEE PLAN-PROFILE SHEETS FOR SLOPE OF CHANNEL AND DIRECTION OF FLOW.

3. ENTIRE CHANNEL SHALL BE PVC.

4. WHEN CASTING PVC CHANNEL INTO A CAST-IN-PLACE BASE, PIPE SHALL BE CUT OFF AT SPRINGLINE AFTER PAVING ABOVE MANHOLE IS COMPLETE.

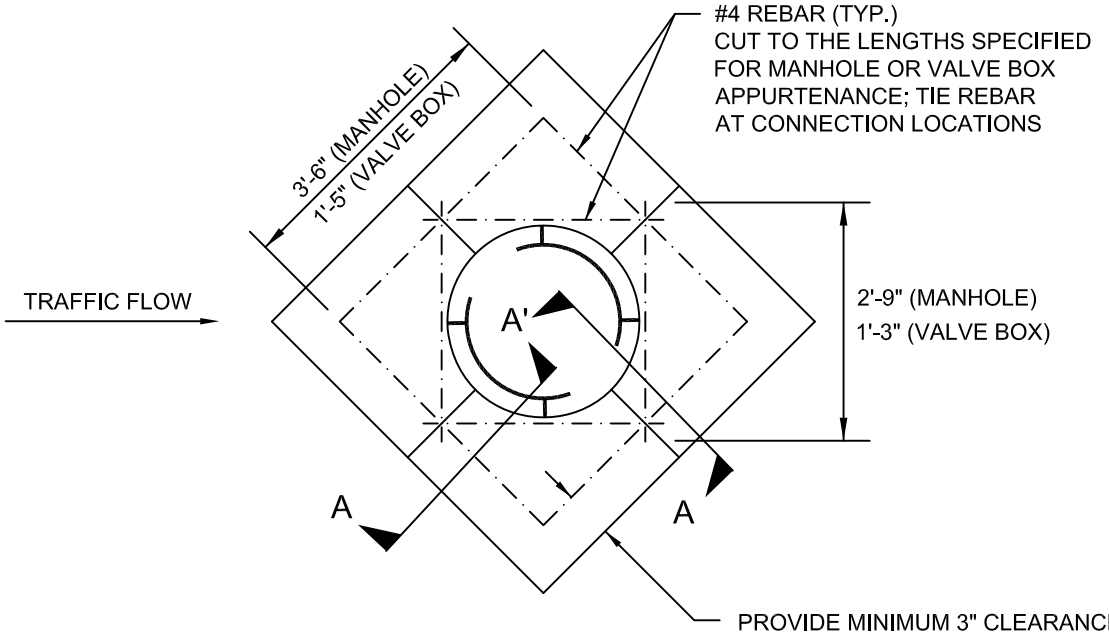
NOT TO SCALE

TYPICAL MANHOLE CHANNEL DETAILS

DWG. NO. 02722-2.01c

CITY of SHERIDAN

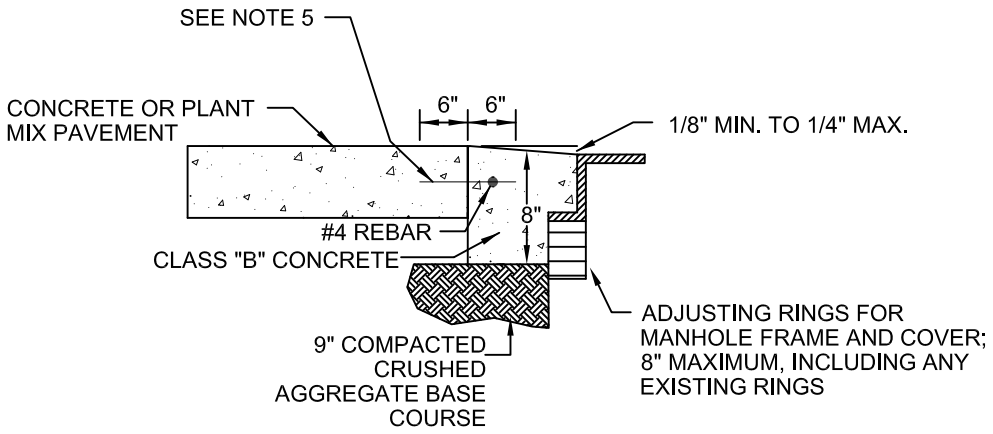
NOVEMBER 2015



NOTES:

1. SEE SPECIFICATION SECTIONS 02570 AND 02722 FOR GUIDANCE ON WHERE CONCRETE COLLARS ARE REQUIRED
2. LOCATE CONCRETE COLLAR AS SHOWN IN RELATION TO TRAFFIC FLOW (IF POSSIBLE).
3. CONCRETE COLLAR FOR MANHOLES SHALL BE 4' X 4'.
4. CONCRETE COLLAR FOR VALVE BOXES SHALL BE SIZED TO ALLOW A MINIMUM 1' FROM THE EDGE OF VALVE BOX TO THE EDGE OF COLLAR. E.G. A COLLAR FOR A 6" DIAMETER VALVE BOX SHALL BE 2.5' X 2.5'.
5. IF PLACED IN CONCRETE PAVEMENT (AS A CORRECTIVE MEASURE), COLLARS SHALL BE TIED TO THE PAVEMENT USING 1' LENGTH #4 REBAR SPACED AT 1' CENTERS; REBAR SHALL BE CENTERED WITHIN THE ADJACENT PAVEMENT SLAB AND EMBEDDED TO A DEPTH OF 6"; ANCHOR REBAR WITHIN ADJACENT PAVEMENT USING EPOXY ADHESIVE, AS APPROVED BY THE ENGINEER.

MANHOLE / VALVE BOX COLLAR



A - A'

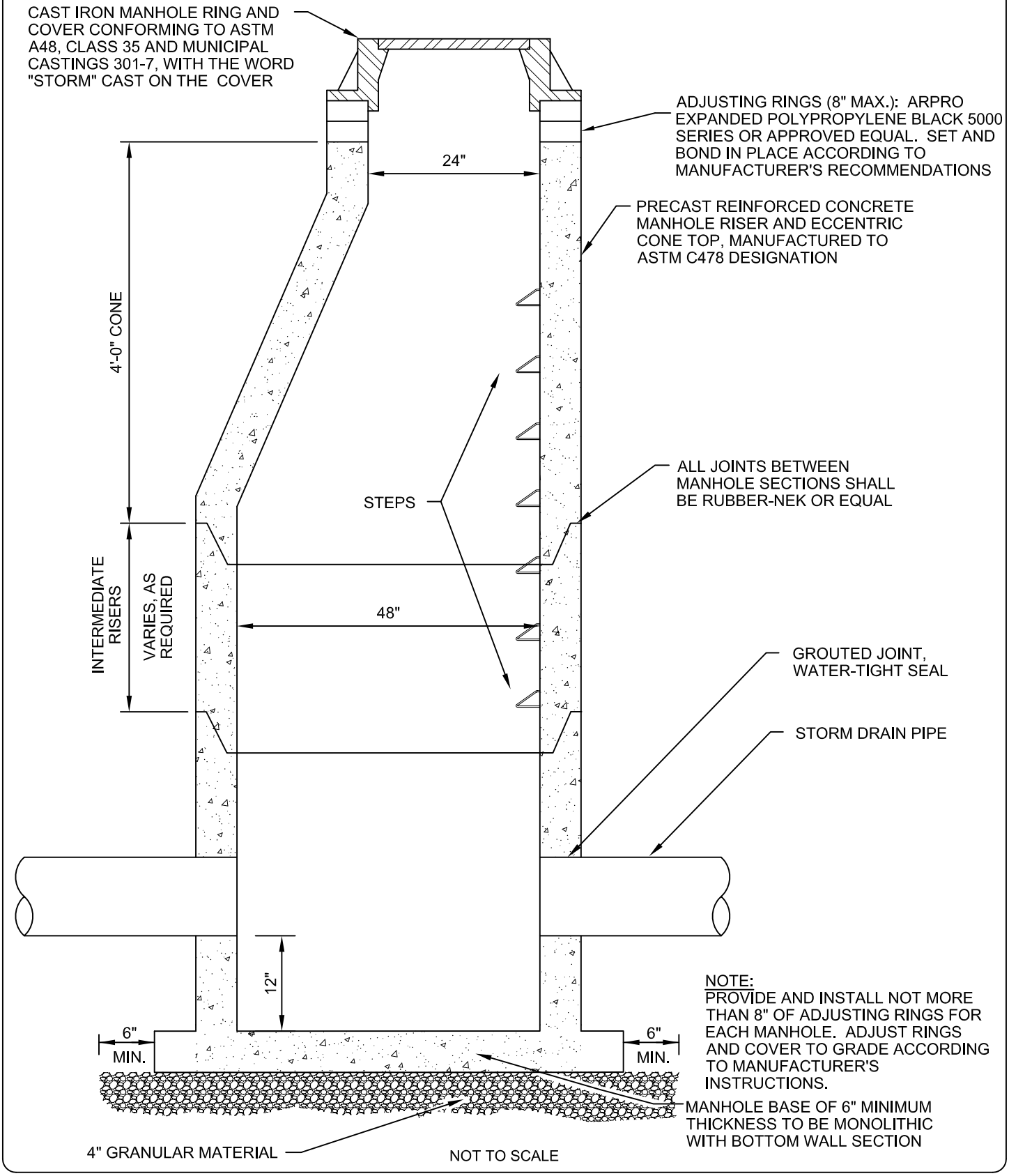
NOT TO SCALE

MANHOLE / VALVE BOX CONCRETE COLLAR DETAIL

DWG. NO. 02722-3.02

CITY of SHERIDAN

NOVEMBER 2015

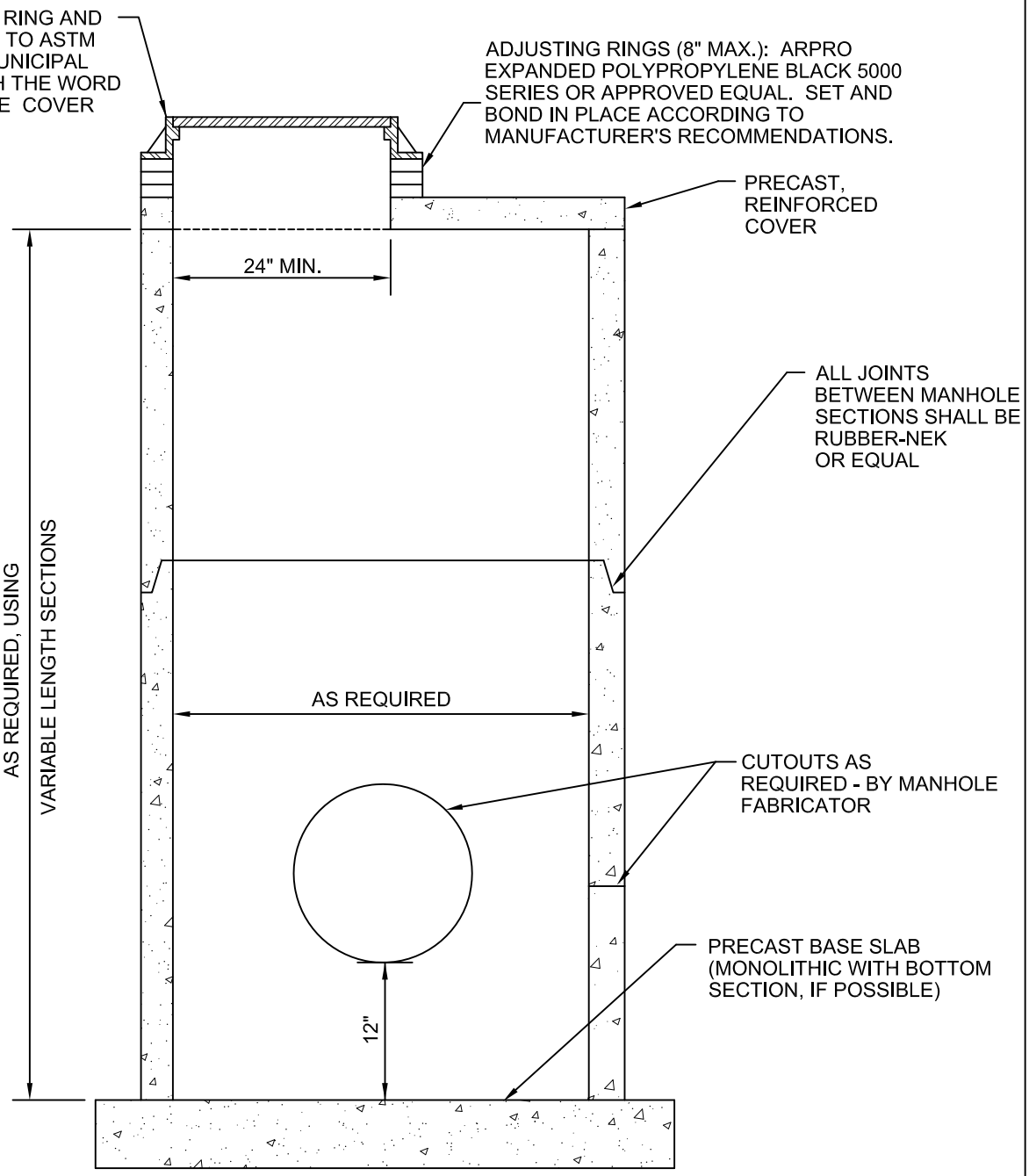


ECCENTRIC-CONED STORM DRAIN MANHOLE DETAIL

DWG. NO. 02722-STRM-A

CITY of SHERIDAN

NOVEMBER 2015



NOTES:

1. PROVIDE AND INSTALL NOT MORE THAN 8" OF ADJUSTING RINGS FOR EACH MANHOLE. ADJUST RINGS AND COVER TO GRADE ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
2. CONCRETE THICKNESSES AND REINFORCING PER ASTM C478 FOR AASHTO HS-20 LOADING.
3. GROUT SPACE BETWEEN PIPE AND MANHOLE WATER-TIGHT. GROUT FROM BOTH INSIDE AND OUTSIDE.

NOT TO SCALE

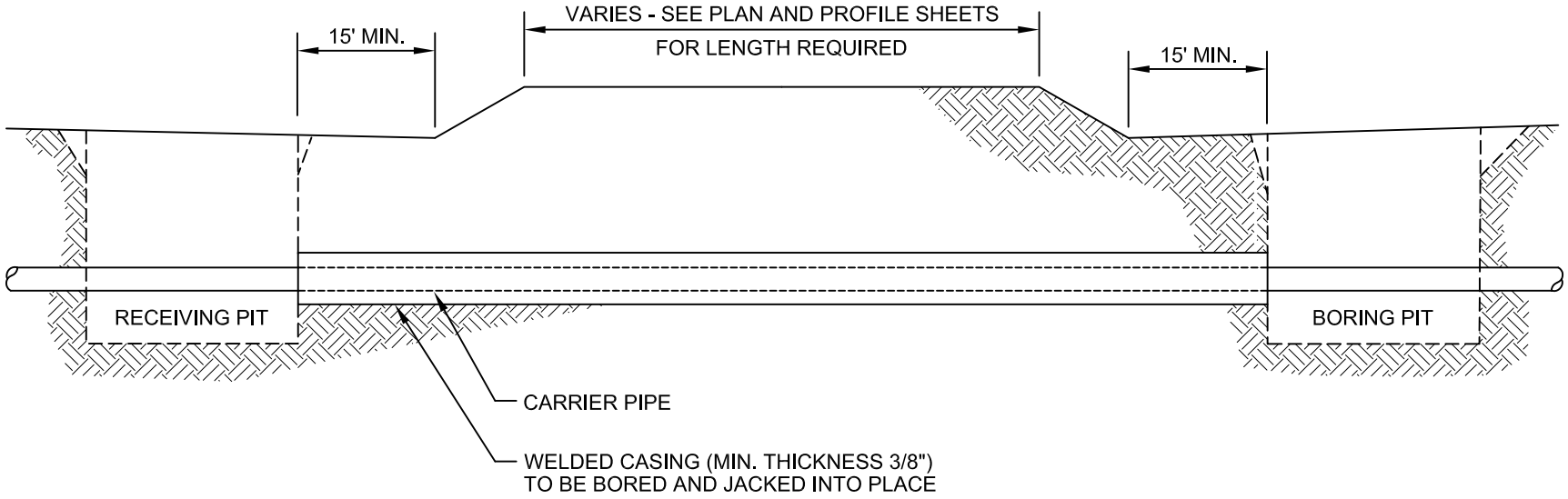
STANDARD STRAIGHT STORM DRAIN MANHOLE DETAIL

DWG. NO. 02722-STRM-B

CITY of SHERIDAN

NOVEMBER 2015

BORING AND CASING FOR RAILROAD AND ROADWAY CROSSING DETAIL



NOTES:

1. CASING INSIDE DIA. TO BE AT LEAST 3" GREATER THAN OUTSIDE DIA. OF BELLS.
2. SEE O.S.H.A. SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION, SECTION 1926.652. TRENCH WALLS SHALL BE IN COMPLIANCE WITH THE CURRENT O.S.H.A. REGULATIONS.
3. TRENCH WALLS WITH SHORING TO CONFORM TO O.S.H.A. REGULATIONS.
4. PROVIDE TRAFFIC CONTROL PER SECTION 02060 OF THE SPECIFICATION.

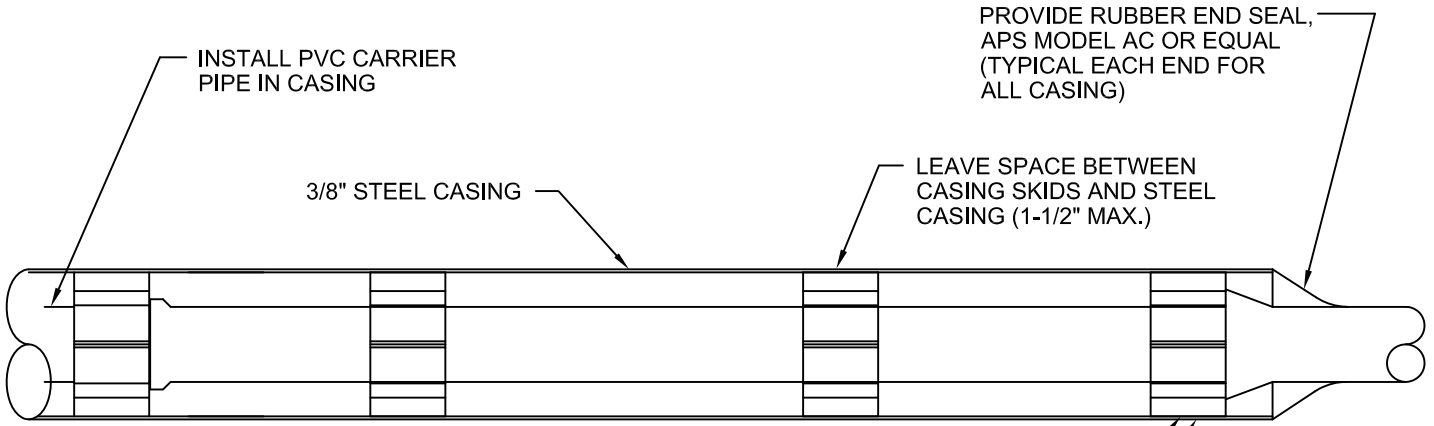
NOT TO SCALE

CITY of SHERIDAN

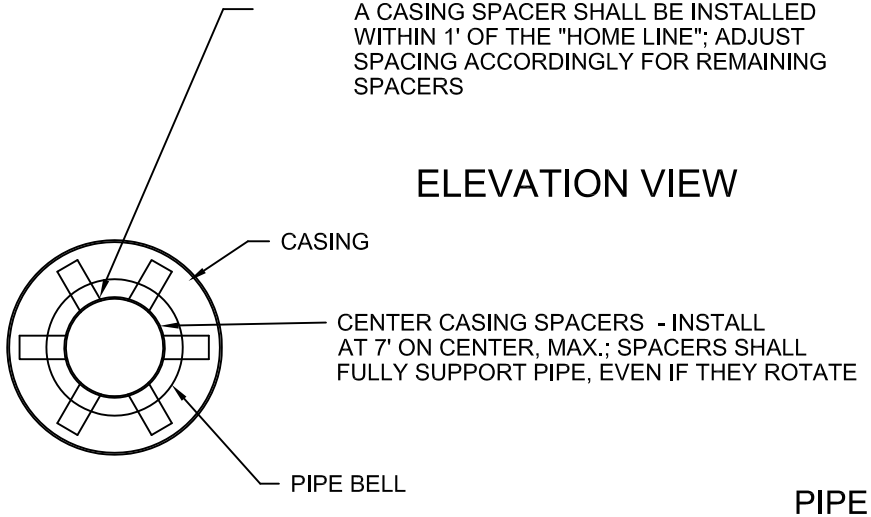
NOVEMBER 2015

DWG. NO. 02740-2.01

CASING DETAIL FOR PLASTIC PIPE



ELEVATION VIEW



END VIEW

PIPE SIZE	APPROX. CASING SIZE
8"	16"
10"	20"
12"	24"

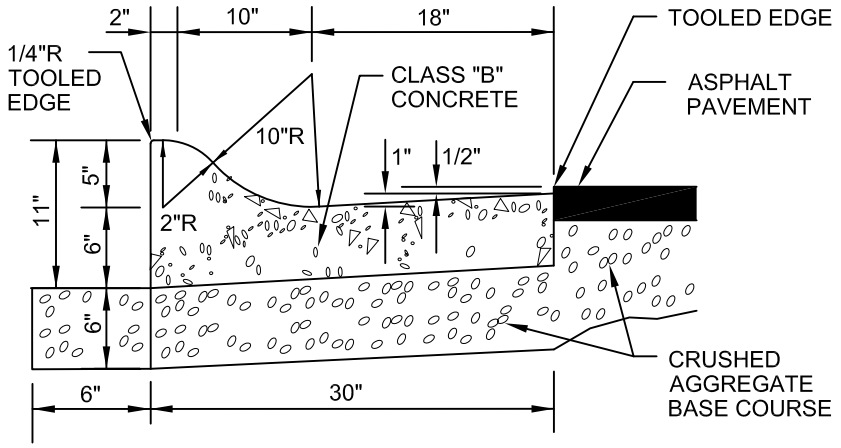
* (CASING I.D. TO BE AT LEAST 2" LARGER THAN OUTSIDE DIAMETER OF BELLS OF CARRIER PIPE)

NOT TO SCALE

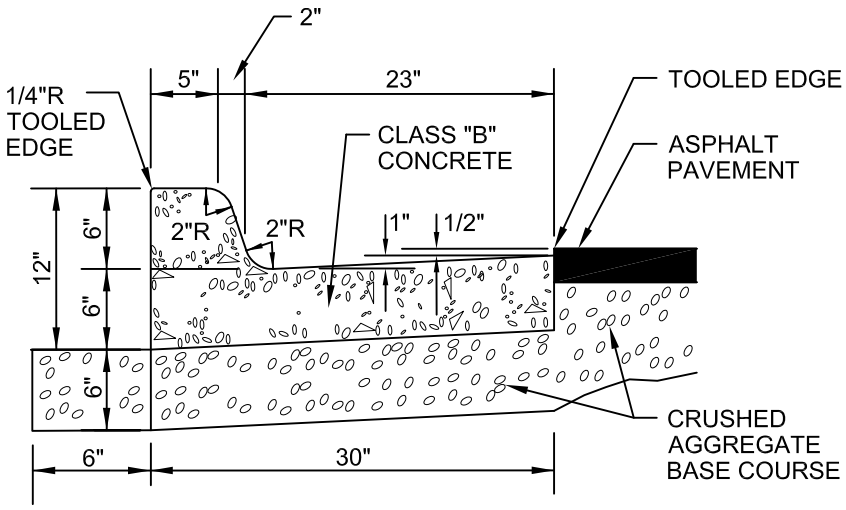
CITY of SHERIDAN

NOVEMBER 2015

DWG. NO. 02740-2.02



TYPE "A"



TYPE "B"

NOTES:

1. PREFORMED EXPANSION JOINT FILLER, CONFORMING TO THE CROSS SECTION OF THE CURB AND GUTTER, SHALL BE INSTALLED AT ALL JOINTS BETWEEN EXISTING CONCRETE, INLETS, MANHOLES AND OPPOSITE TO EXISTING EXPANSION JOINTS, AND AT NOT MORE THAN 150 FOOT INTERVALS.

2. PROVIDE 1" DIA. X 14" SMOOTH DOWEL BAR IN EXPANSION JOINT LOCATIONS; SMOOTH DOWEL BARS ACROSS EXPANSION JOINTS SHALL BE PROVIDED WITH EXPANSION CAPS AND COATED WITH GREASE.

3. SEE DWG. NO. 03020-2.01b FOR CURB & GUTTER WITH CONCRETE PAVEMENT DETAIL.

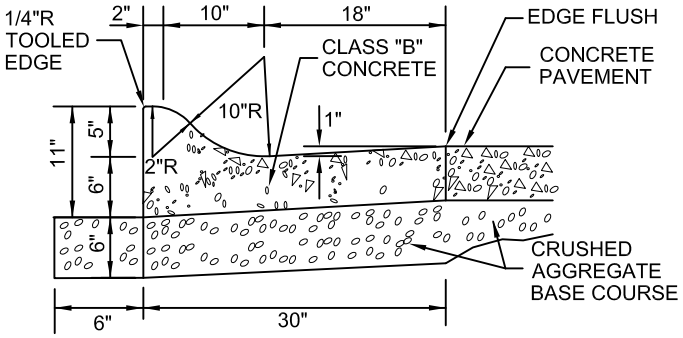
NOT TO SCALE

CURB & GUTTER DETAIL

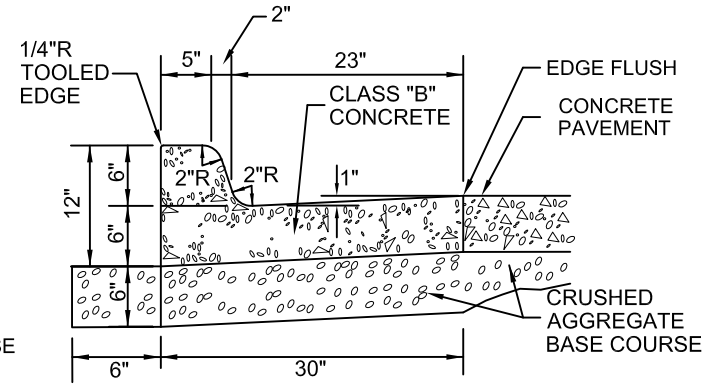
DWG. NO. 03020-2.01a

CITY of SHERIDAN

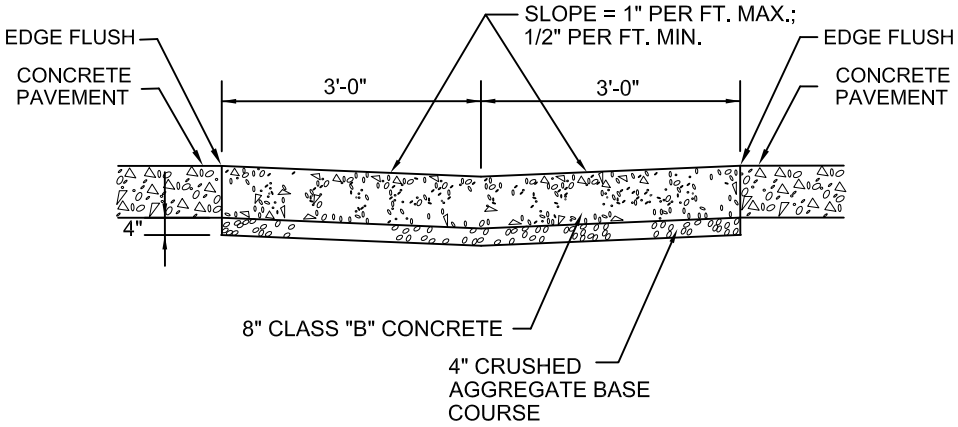
NOVEMBER 2015



TYPE "A"



TYPE "B"



DOUBLE GUTTER

NOTES:

1. PREFORMED EXPANSION JOINT FILLER, CONFORMING TO THE CROSS SECTION OF THE CURB AND GUTTER, SHALL BE INSTALLED AT ALL JOINTS BETWEEN EXISTING CONCRETE, INLETS, MANHOLES AND OPPOSITE TO EXISTING EXPANSION JOINTS, AND AT NOT MORE THAN 150 FOOT INTERVALS.

2. PROVIDE 1" DIA. X 14" SMOOTH DOWEL BAR IN EXPANSION JOINT LOCATIONS; SMOOTH DOWEL BARS ACROSS EXPANSION JOINTS SHALL BE PROVIDED WITH EXPANSION CAPS AND COATED WITH GREASE.

3. SEE DWG. NO. 03030-3.01i FOR PLAN VIEW OF DOUBLE GUTTER.

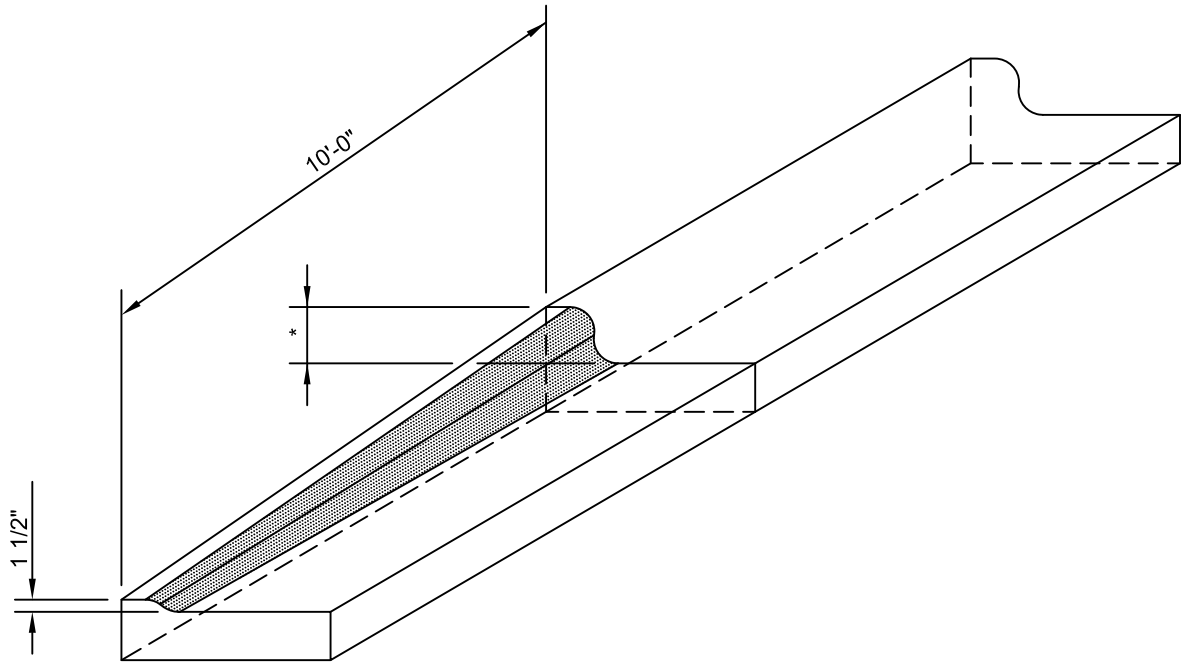
NOT TO SCALE

CURB & GUTTER, DOUBLE GUTTER WITH CONCRETE PAVEMENT DETAIL

DWG. NO.	03020-2.01b

CITY of SHERIDAN

NOVEMBER 2015



* 5" FOR TYPE A CURB;
6" FOR TYPE B CURB

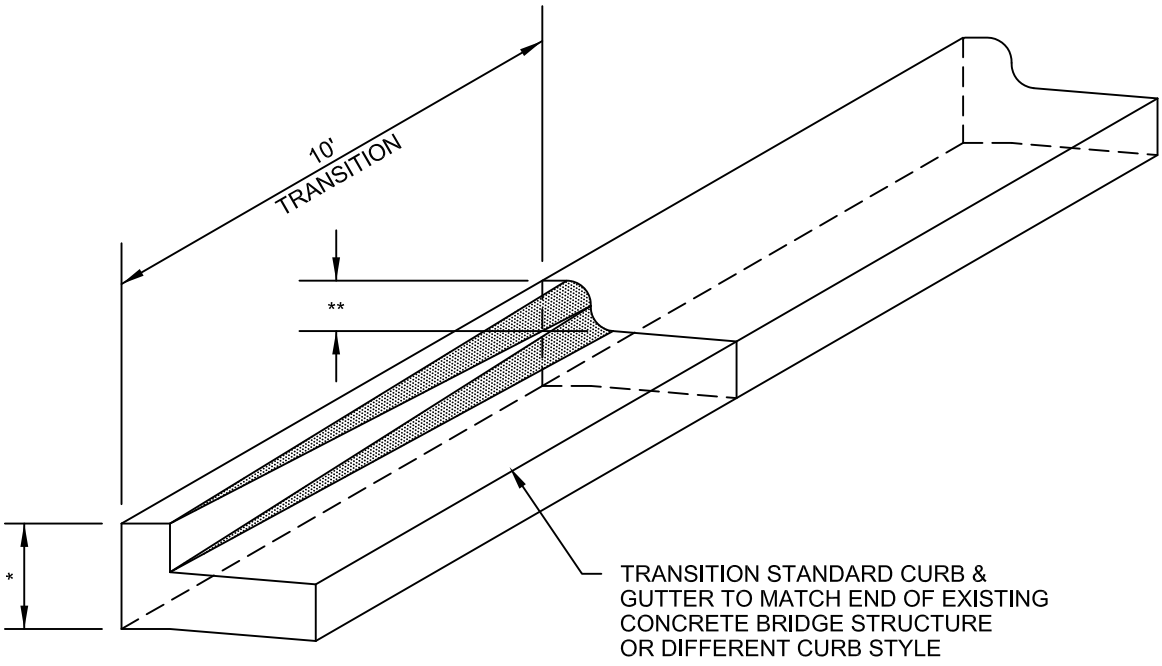
NOT TO SCALE

CURB & GUTTER
TAPER DETAIL

DWG. NO. 03020-3.01a

CITY of SHERIDAN

NOVEMBER 2015



* MATCH TOP FACE OF CURB TO TOP FACE OF BRIDGE STRUCTURE OR DIFFERENT CURB STYLE.

** 5" FOR TYPE A CURB;
6" FOR TYPE B CURB

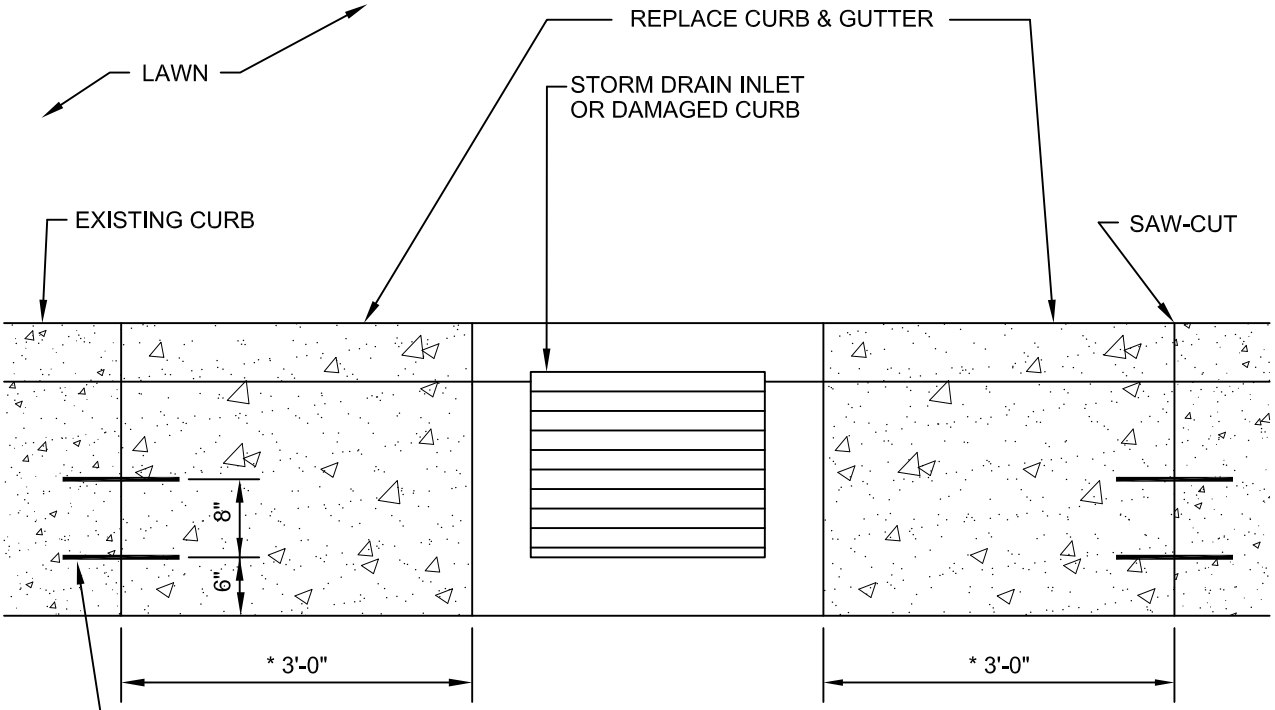
NOT TO SCALE

CURB END TRANSITION DETAIL

DWG. NO. 03020-3.01b

CITY of SHERIDAN

NOVEMBER 2015



#4 REBAR; 12" LONG, CENTERED AT JOINT (TYP.);
ANCHOR REBAR INTO EXISTING CONCRETE USING EPOXY
ADHESIVE, AS APPROVED BY THE ENGINEER

* SAW-CUT AT NEAREST CONSTRUCTION
JOINT IF DISTANCE TO THE CONSTRUCTION
JOINT IS LESS THAN 5'-0"

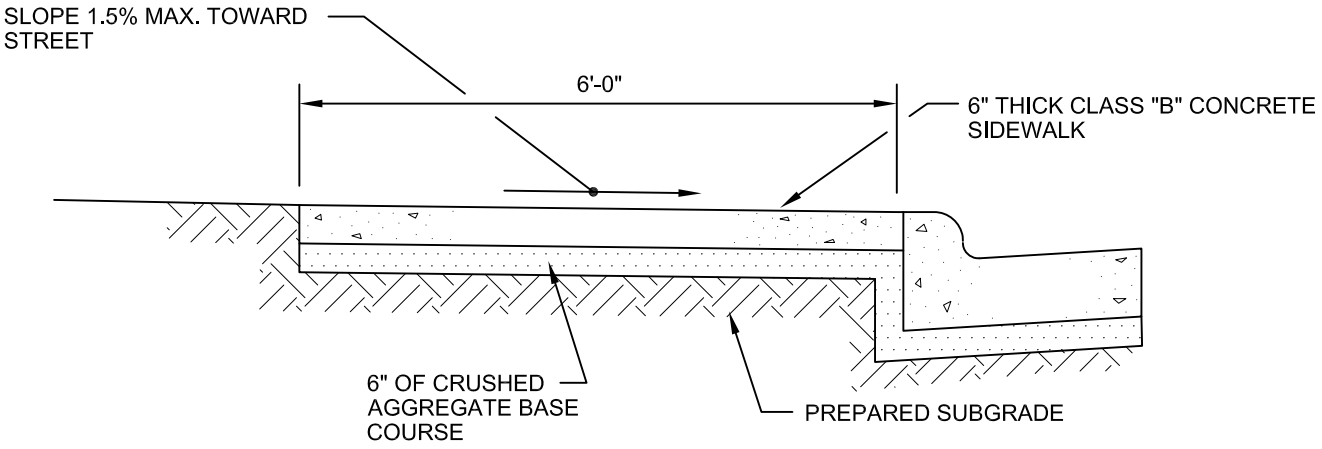
NOT TO SCALE

CURB & GUTTER REMOVAL AND REPLACEMENT DETAIL

DWG. NO. 03020-3.01c

CITY of SHERIDAN

NOVEMBER 2015



NOTE:

PREFORMED EXPANSION JOINT FILLER SHALL BE INSTALLED FOR THE FULL THICKNESS OF THE SIDEWALK AND SHALL BE USED AT ALL JOINTS BETWEEN EXISTING CONCRETE, INLETS, MANHOLES AND OPPOSITE TO EXISTING EXPANSION JOINTS, AND AT NOT MORE THAN 150 FOOT INTERVALS. CONTRACTION JOINTS SHALL BE SPACED AT INTERVALS NOT EXCEEDING WIDTH OF SIDEWALK PLACED.

ALL SIDEWALK SHALL BE ADA COMPLIANT.

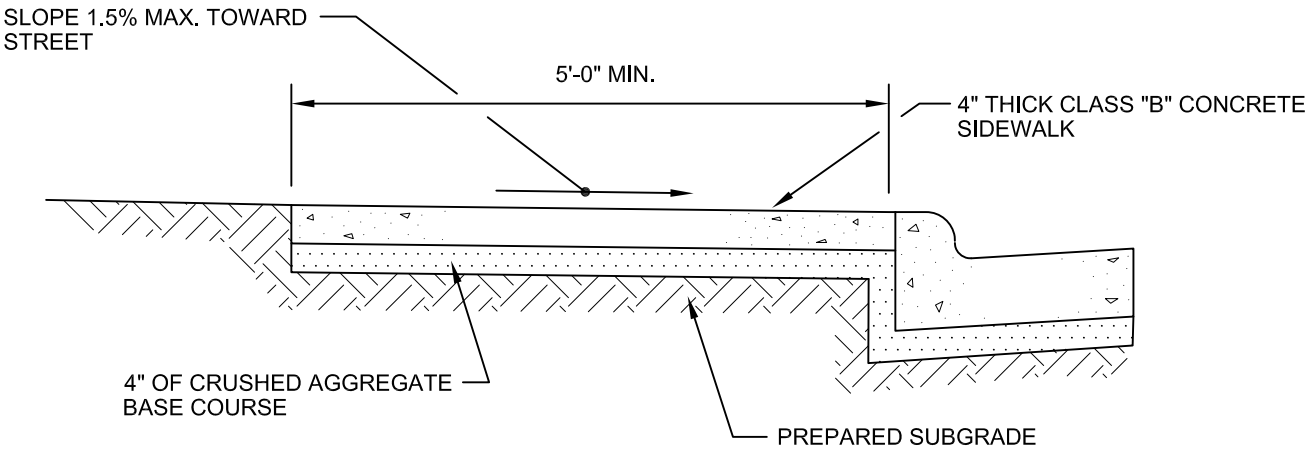
NOT TO SCALE

CONCRETE SIDEWALK - COMMERCIAL SECTION DETAIL

DWG. NO. 03030-3.01a

CITY of SHERIDAN

NOVEMBER 2015



NOTE:

PREFORMED EXPANSION JOINT FILLER SHALL BE INSTALLED FOR THE FULL THICKNESS OF THE SIDEWALK AND SHALL BE USED AT ALL JOINTS BETWEEN EXISTING CONCRETE, INLETS, MANHOLES AND OPPOSITE TO EXISTING EXPANSION JOINTS, AND AT NOT MORE THAN 150 FOOT INTERVALS. CONTRACTION JOINTS SHALL BE SPACED AT INTERVALS NOT EXCEEDING WIDTH OF SIDEWALK PLACED.

ALL SIDEWALK SHALL BE ADA COMPLIANT.

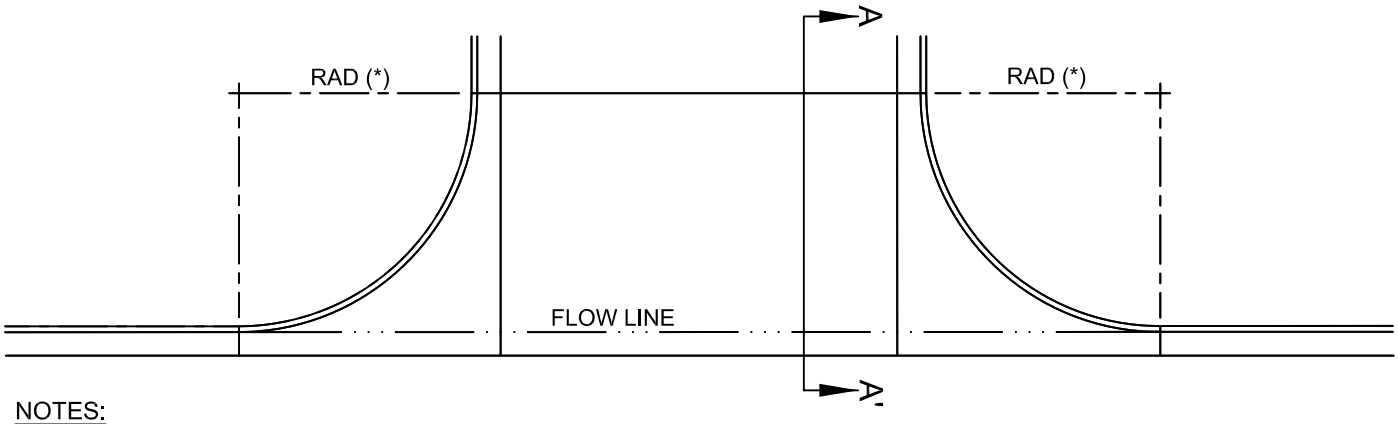
NOT TO SCALE

CONCRETE SIDEWALK - RESIDENTIAL SECTION DETAIL

DWG. NO. 03030-3.01b

CITY of SHERIDAN

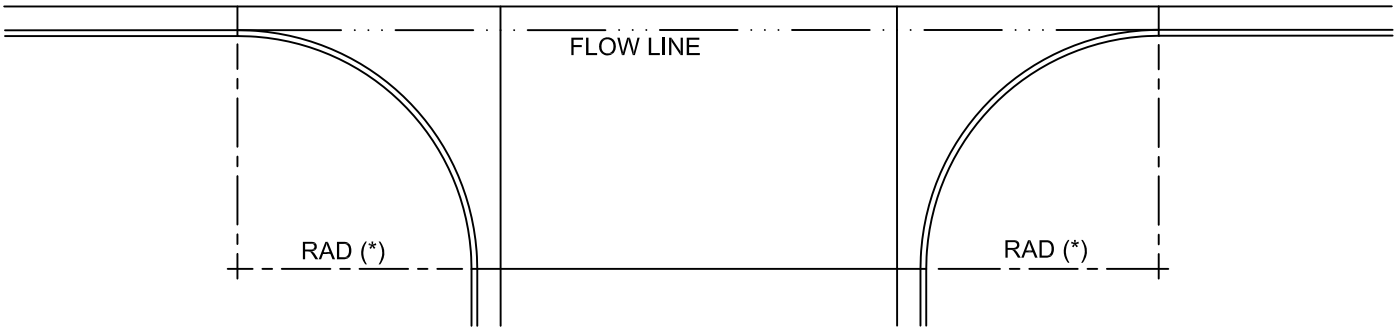
NOVEMBER 2015



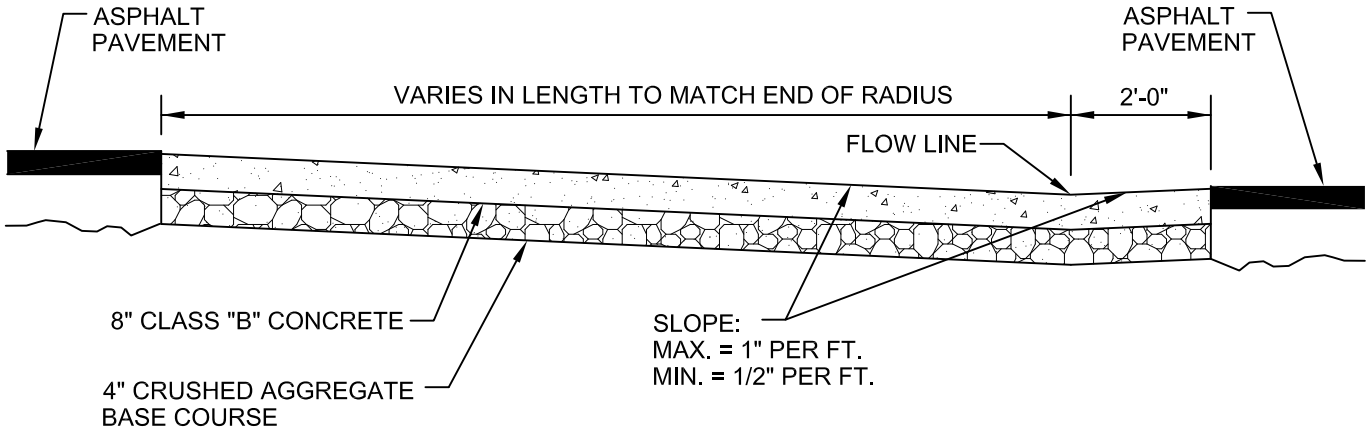
NOTES:

(*) RADIUS SHALL BE 15 FEET FOR RESIDENTIAL STREETS AND 25 FEET FOR COLLECTOR STREETS - MEASURED TO BACK OF CURB.

FLOW LINES OF CURB & GUTTER, DOUBLE GUTTER, AND FILLETS SHALL BE WARPED TO MEET FLOW LINES OF GUTTERS.



PLAN



A - A'

NOT TO SCALE

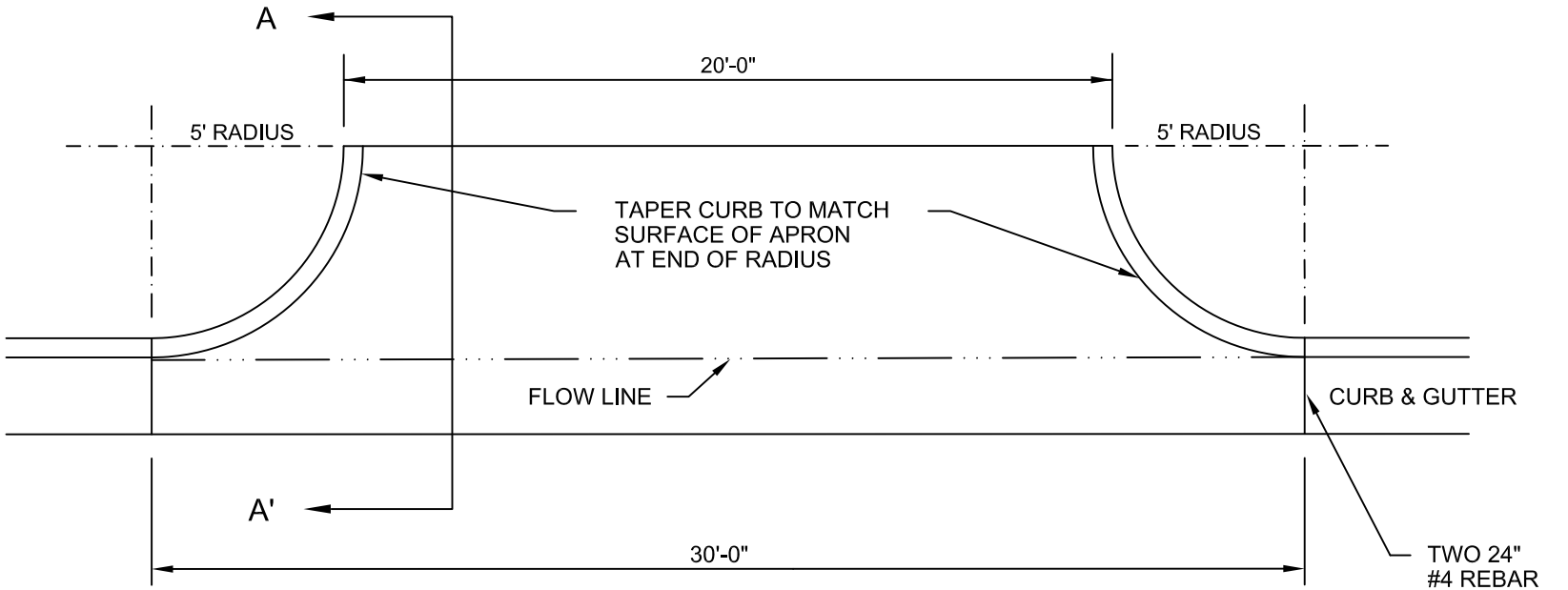
STREET INTERSECTION DETAIL

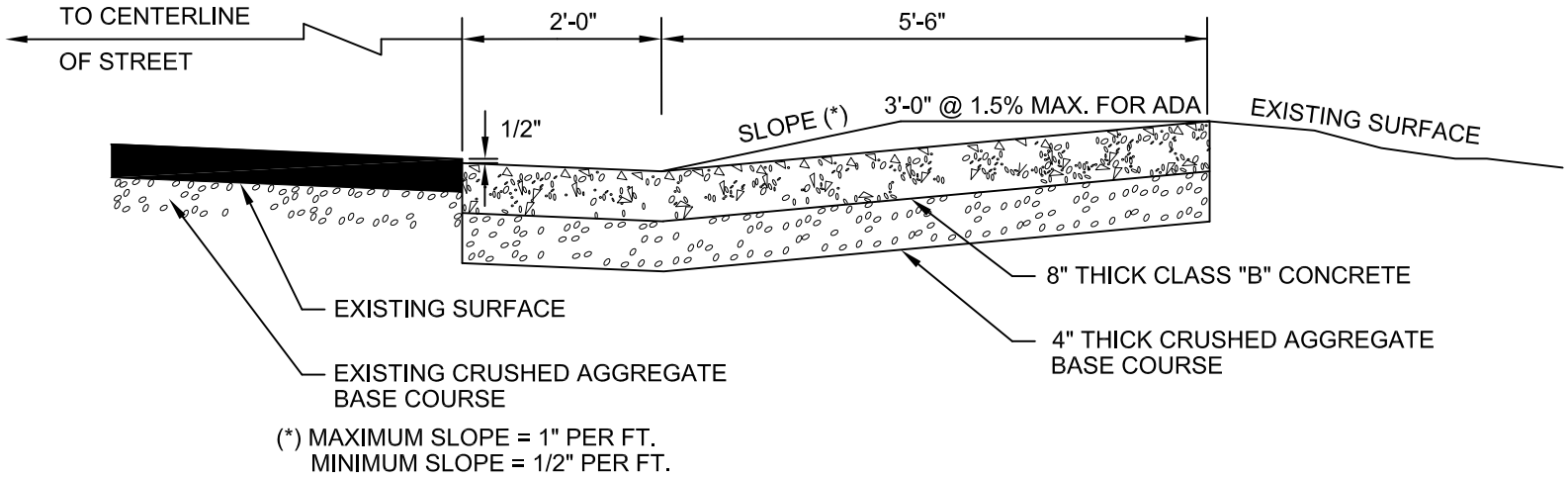
DWG. NO.	03030-3.01c

CITY of SHERIDAN

NOVEMBER 2015

COMMERCIAL AND ALLEY APPROACH DETAIL





(*) MAXIMUM SLOPE = 1" PER FT.
MINIMUM SLOPE = 1/2" PER FT.

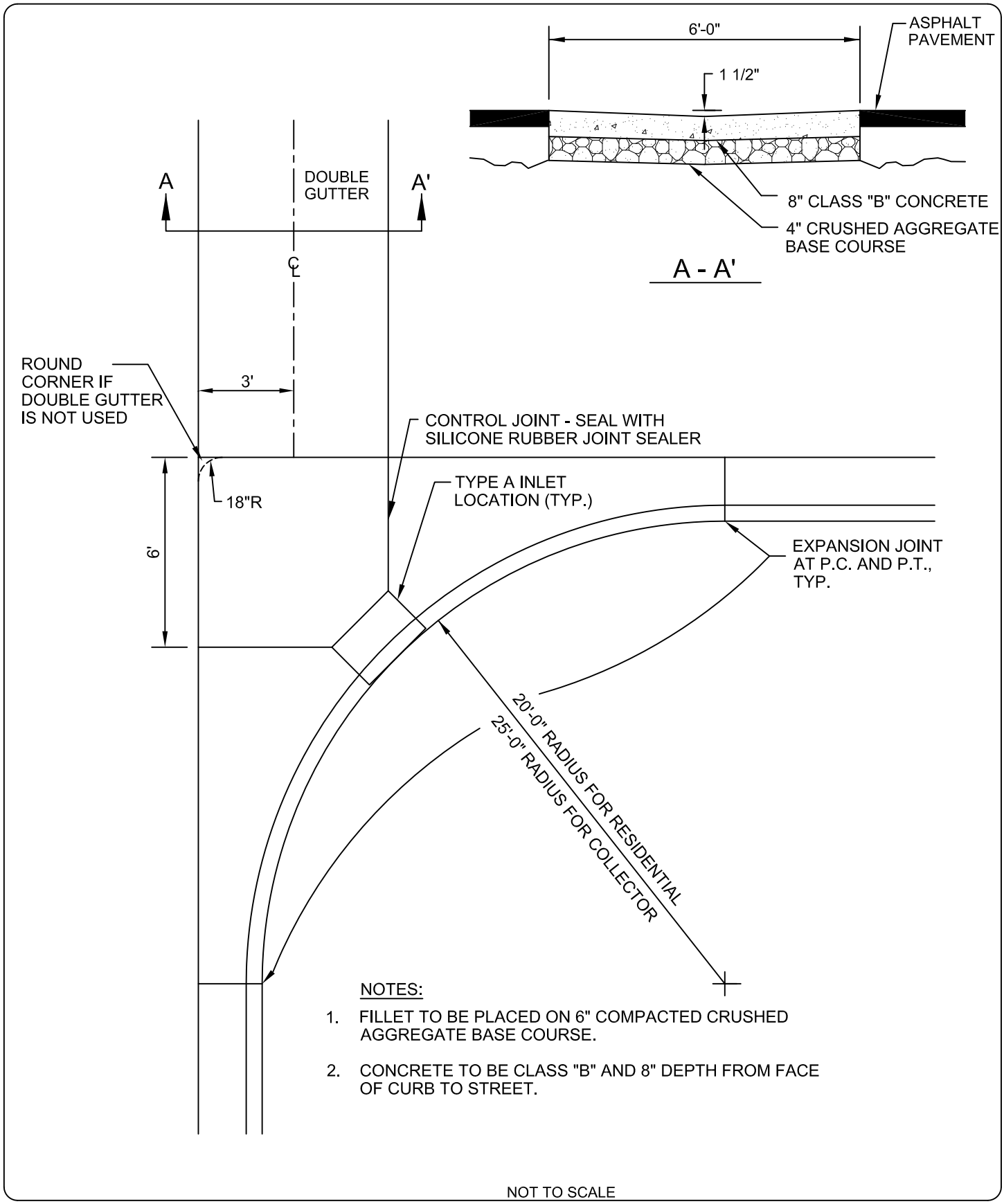
A - A'

NOT TO SCALE

CITY of SHERIDAN

NOVEMBER 2015

DWG. NO. 03030-3.01d



NOTES:

1. FILLET TO BE PLACED ON 6" COMPACTED CRUSHED AGGREGATE BASE COURSE.
2. CONCRETE TO BE CLASS "B" AND 8" DEPTH FROM FACE OF CURB TO STREET.

NOT TO SCALE

STANDARD FILLET DETAIL

DWG. NO. 03030-3.01e

CITY of SHERIDAN

NOVEMBER 2015

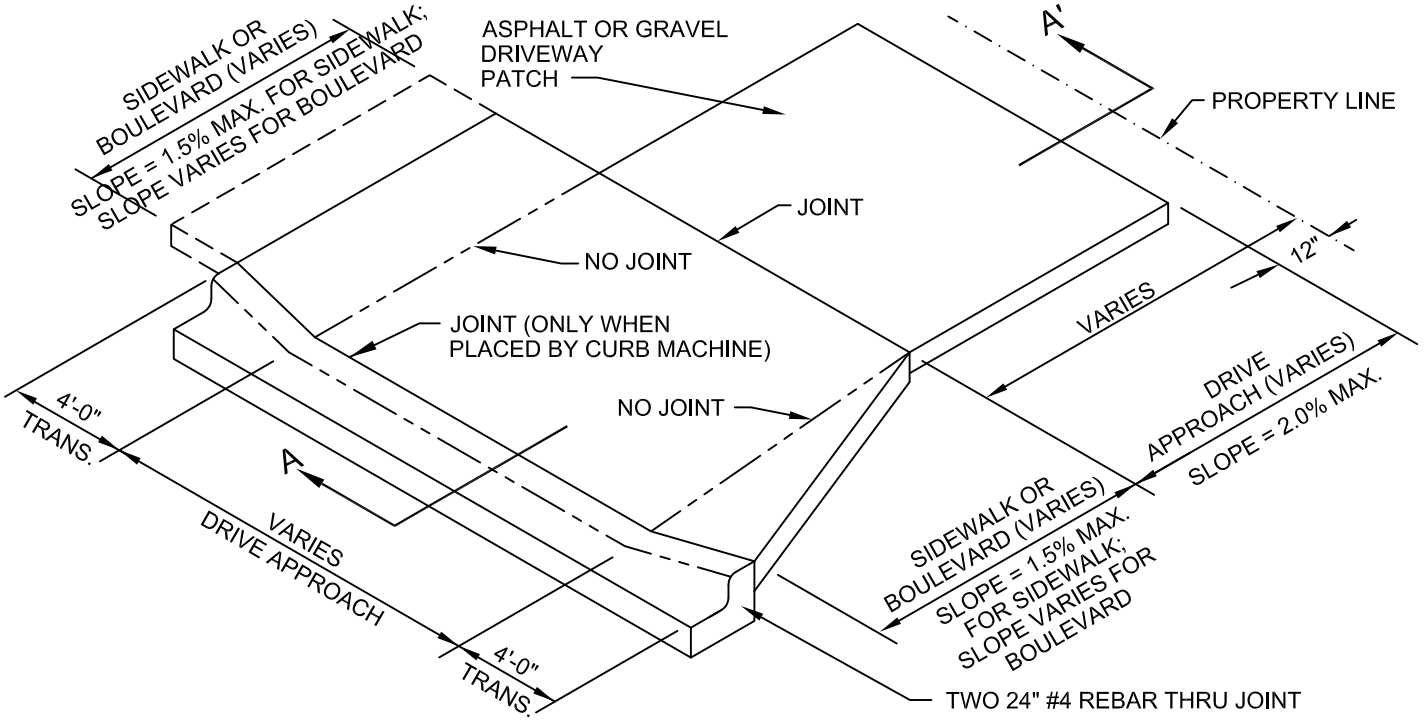
RESIDENTIAL APPROACH DETAIL (WITH CONCRETE DRIVEWAY AND FLARE SECTIONS)

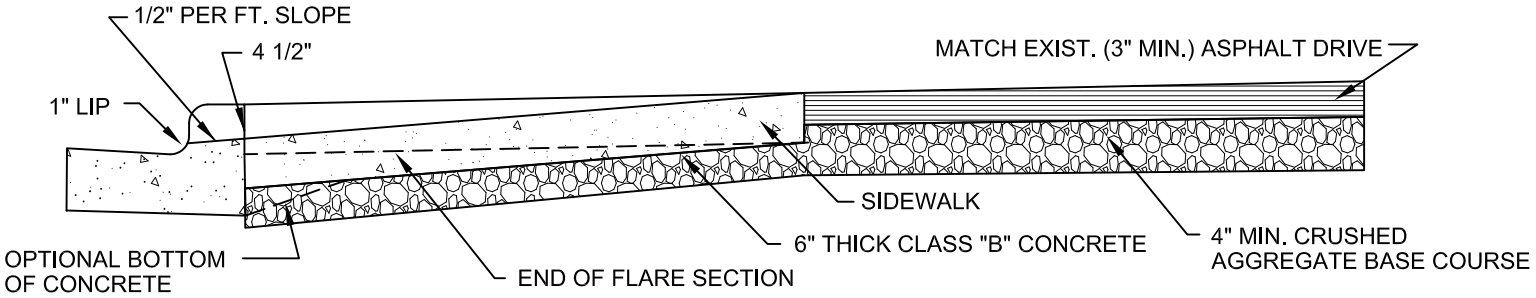
DWG. NO. 03030-3.01f

CITY of SHERIDAN

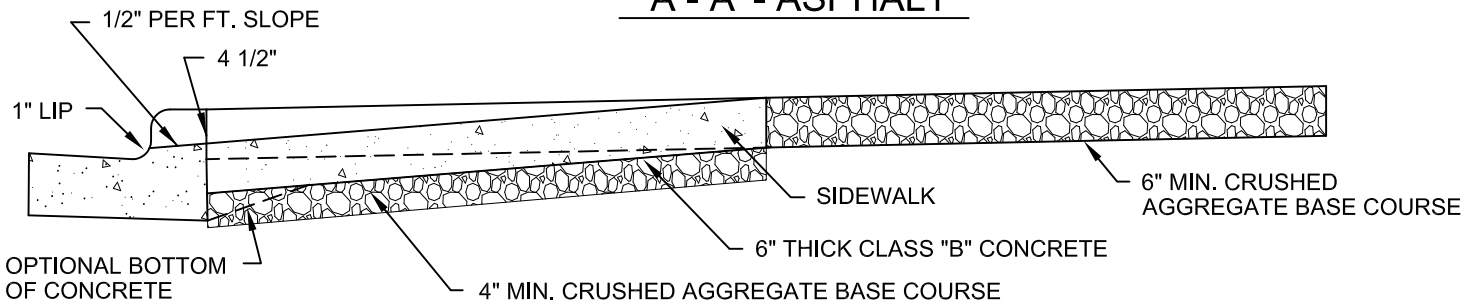
NOVEMBER 2015

RESIDENTIAL APPROACH DETAIL
(WITH ASPHALT OR GRAVEL DRIVEWAY PATCH)





A - A' - ASPHALT



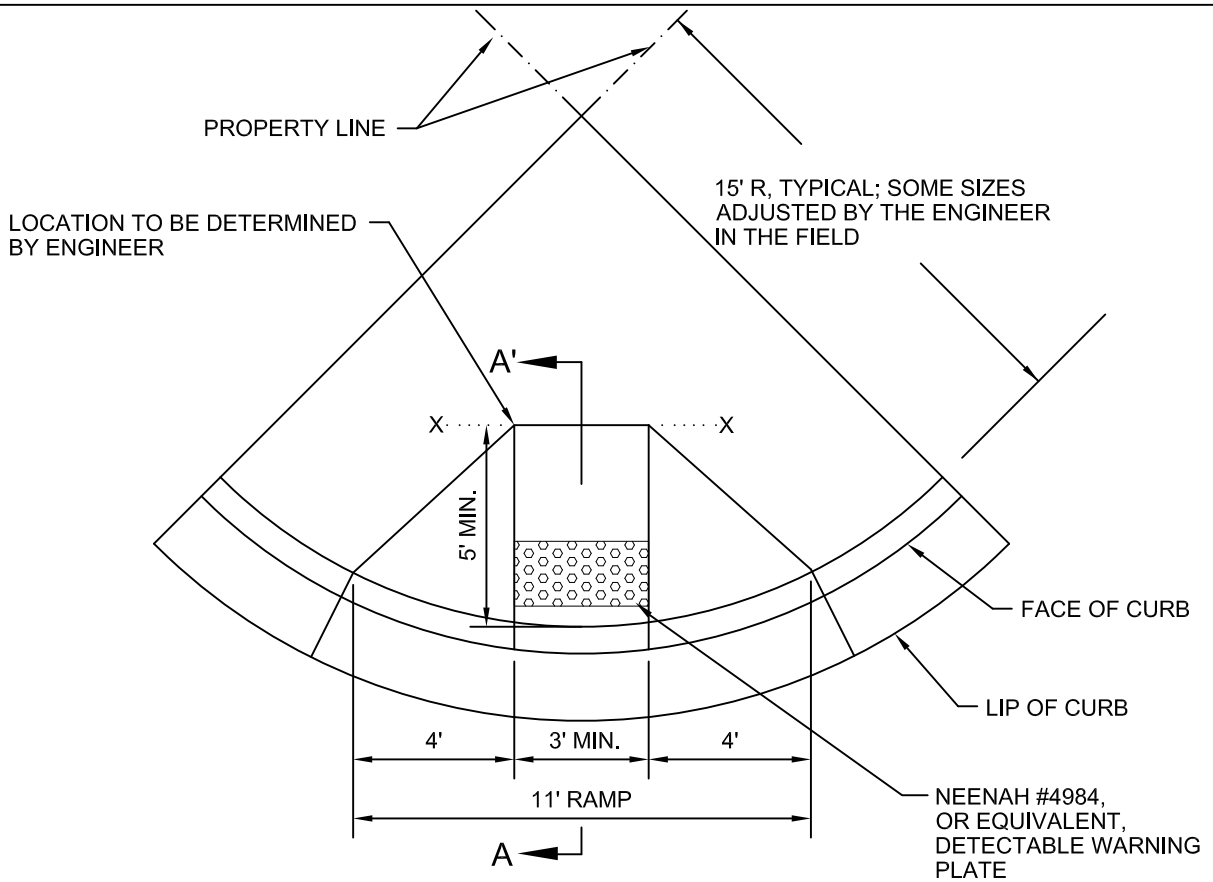
A - A' - GRAVEL

NOT TO SCALE

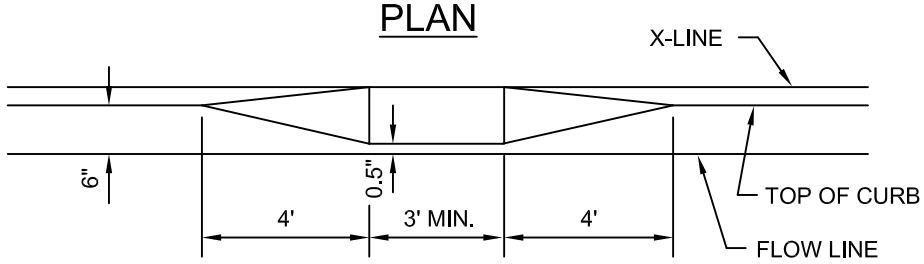
CITY of SHERIDAN

NOVEMBER 2015

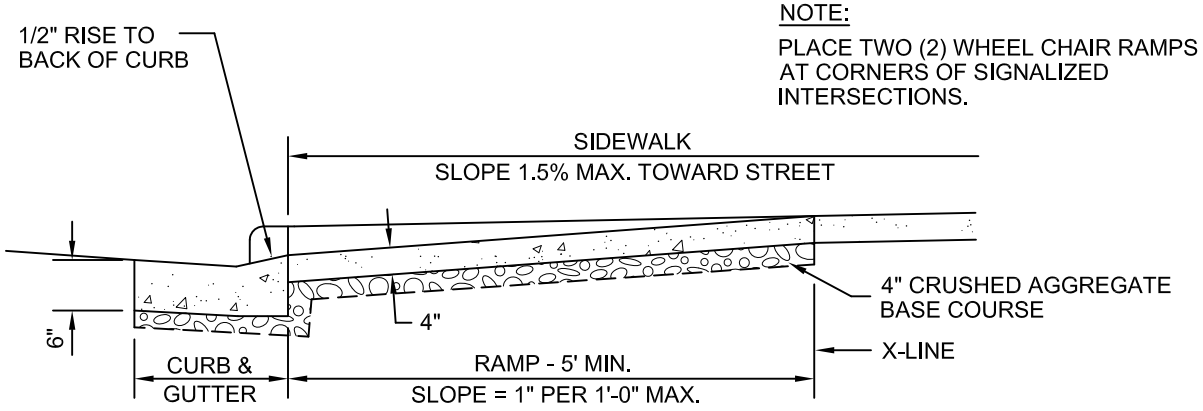
DWG. NO. 03030-3.01g



PLAN



RAMP - FRONT



NOTE:

PLACE TWO (2) WHEEL CHAIR RAMPS AT CORNERS OF SIGNALIZED INTERSECTIONS.

A - A'

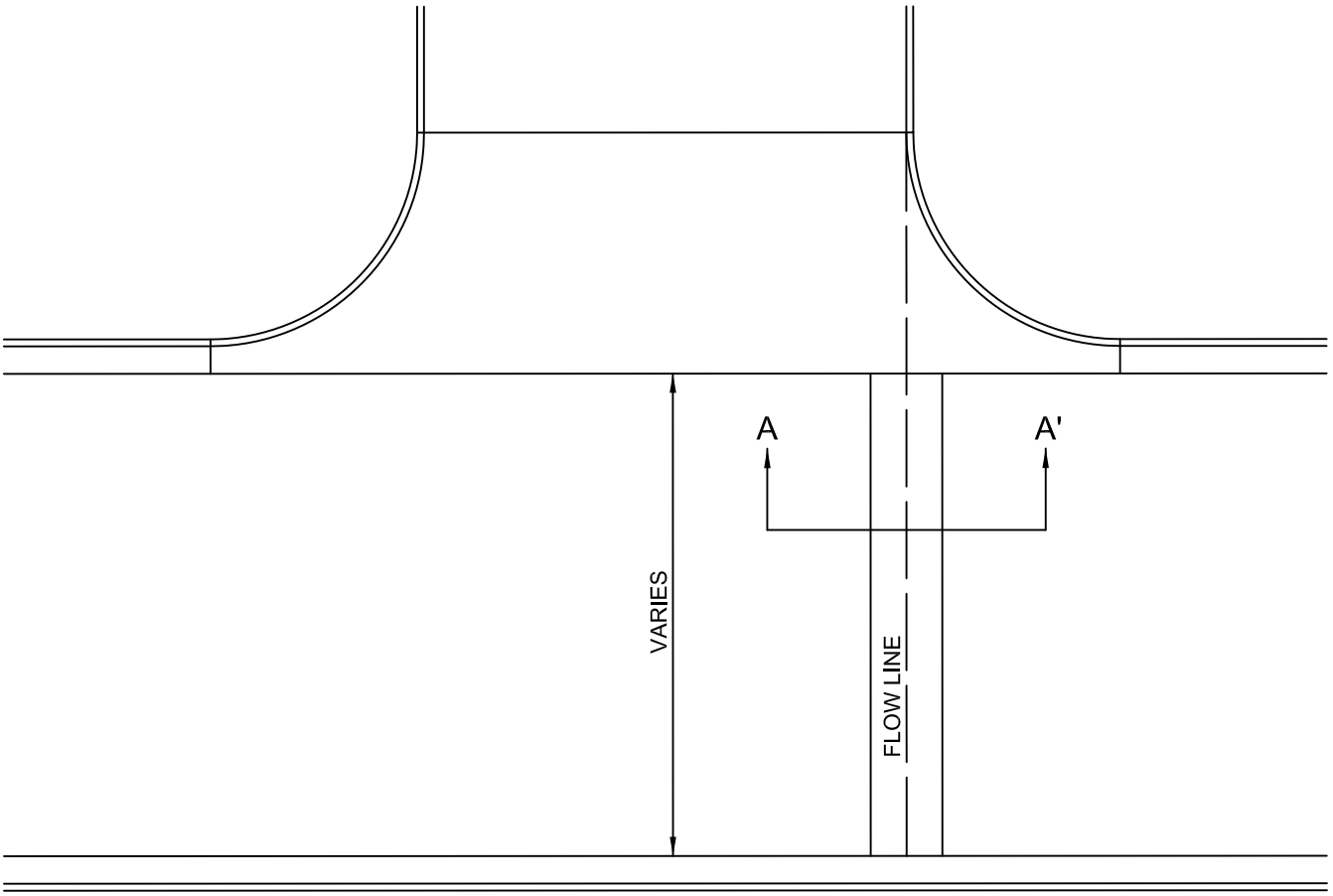
NOT TO SCALE

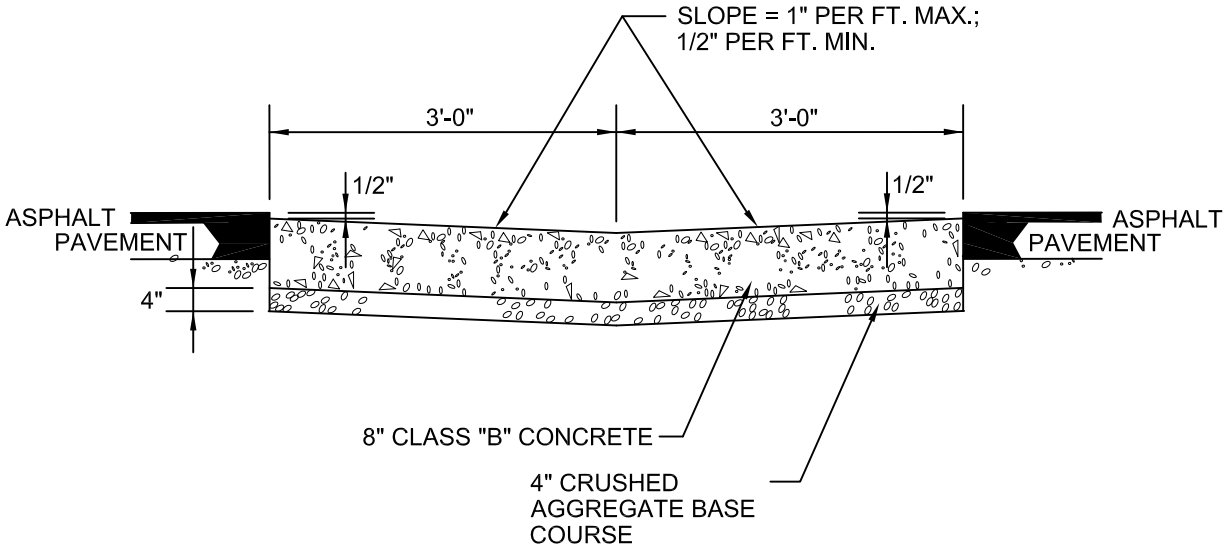
PEDESTRIAN ADA RAMP DETAIL

DWG. NO.	03030-3.01h

CITY of SHERIDAN

NOVEMBER 2015





A - A'

NOTE:

1. SEE DWG. NO. 03020-2.01b FOR DOUBLE GUTTER WITH CONCRETE PAVEMENT DETAIL.

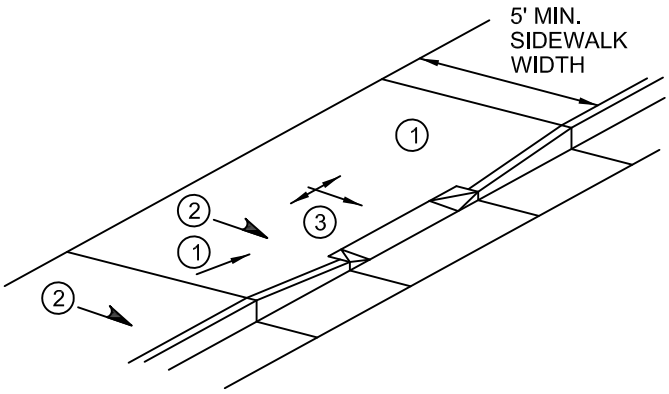
NOT TO SCALE

DOUBLE GUTTER DETAIL

DWG. NO. 03030-3.01i

CITY of SHERIDAN

NOVEMBER 2015

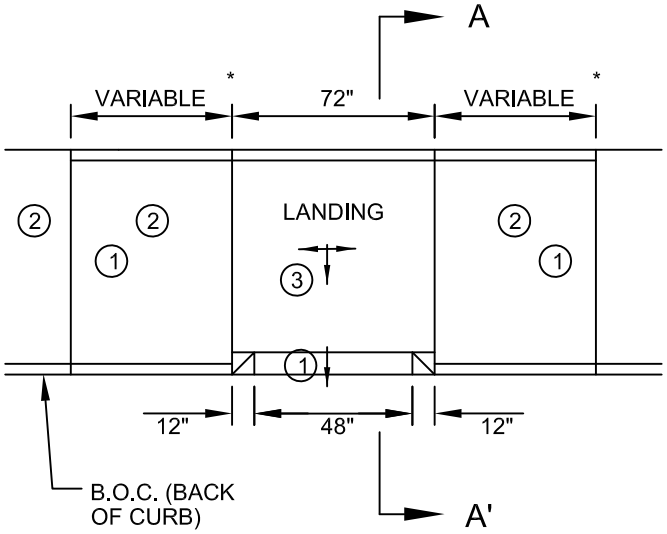


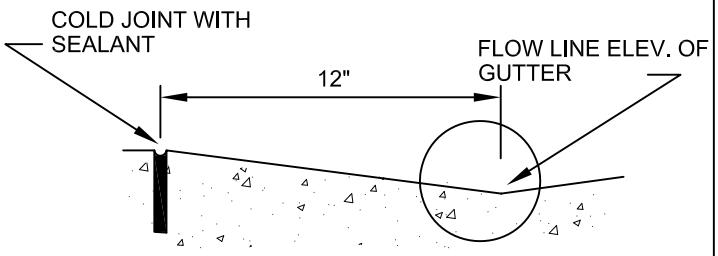
NOTES:

1. RAMP SLOPE - RAMP SLOPE SHALL GENERALLY BE 1:12. RAMP SLOPE SHALL NOT EXCEED 1:12.

2. CROSS SLOPE - POSITIVE DRAINAGE SHALL BE PROVIDED BY SLOPING SIDEWALK AND/OR RAMP TOWARD STREET AT 1:5%; CROSS-SLOPE SHALL NOT EXCEED 1.5%.

3. LANDING SLOPE - LANDING SLOPE SHALL NOT EXCEED 1.5% IN ANY DIRECTION. POSITIVE DRAINAGE SHALL BE PROVIDED TOWARD THE STREET AS SHOWN BY SINGLE-TIP ARROW. LANDING CAN BE SLOPED IN EITHER DIRECTION TO A MAX. OF 1.5% AS SHOWN BY DOUBLE- TIP ARROW.



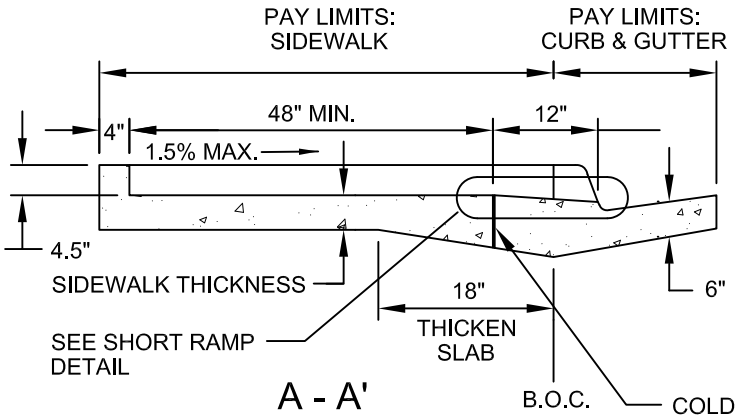


* VARIABLE LENGTH BASED ON RUNNING SLOPE OF SIDEWALK. FOR FLAT CONDITIONS AND CURB HEIGHT = 6":
ELEV. OF FLOW LINE = 0"
ELEV. OF LANDING = 1.5"
RISE OF PARALLEL RAMPS = 4.5"
VARIABLE DIMENSION = 4.5'

PLAN VIEW

THIS DETAIL PROVIDES AN ELEVATED LANDING TO REDUCE ICE, SNOW, GRAVEL AND WATER FROM ACCUMULATING IN THE LANDING. THE LANDING IS ELEVATED 1.5" ABOVE THE GUTTER FLOW LINE. THIS DETAIL CAN ONLY BE USED WITH 5 FT. OR WIDER SIDEWALKS SO THAT THE LANDING IS WIDE ENOUGH FOR WHEEL CHAIR TURNING MOVEMENTS.

SHORT RAMP DETAIL



A - A'

NOT TO SCALE

ADA RAMP IN SIDEWALK DETAIL

DWG. NO. 03030-3.01j

CITY of SHERIDAN

NOVEMBER 2015

Arterial	Dimension Reference	Local			Collector			Arterial		
		Residential	Commercial	Industrial	Residential	Commercial	Industrial	Residential	Commercial	Industrial
Width[1]	W									
Minimum		12	20	20	12	20	20	15	15	20
Maximum		32[2]	40	40	30	40	40	36	40	40
Right-turn Radius	R									
Minimum		0	5	10	0	15	25	0	25	30
Maximum[3]		0	10	20	0	50	50	0	50	50
Minimum Spacing[4]										
From Property Line	P	0	R	R	0	R	R	R	R	R
From Street Corner	C	20	40	40	50	50	50	NA	NA	NA
Between Driveways	S	10[5]	25	25	35	50	50	NA	NA	NA
Angle[6]	A	45°	70°	70°	45°	70°	70°			

[1]The minimum width of commercial driveways is intended to apply to one-way operation. In high pedestrian activity areas, such as in a central business district or in the same block with an auditorium, school, or library, the maximum basic width should be 30 feet. The width shown applies to rural routes and most City streets including neighborhood business, residential, and industrial streets. The width is intended to be measured along the right-of-way line, in most instances, at the inner limit of a curbed radius or between the line of the radius and the near edge of a curbed island at least 50 square feet in area.

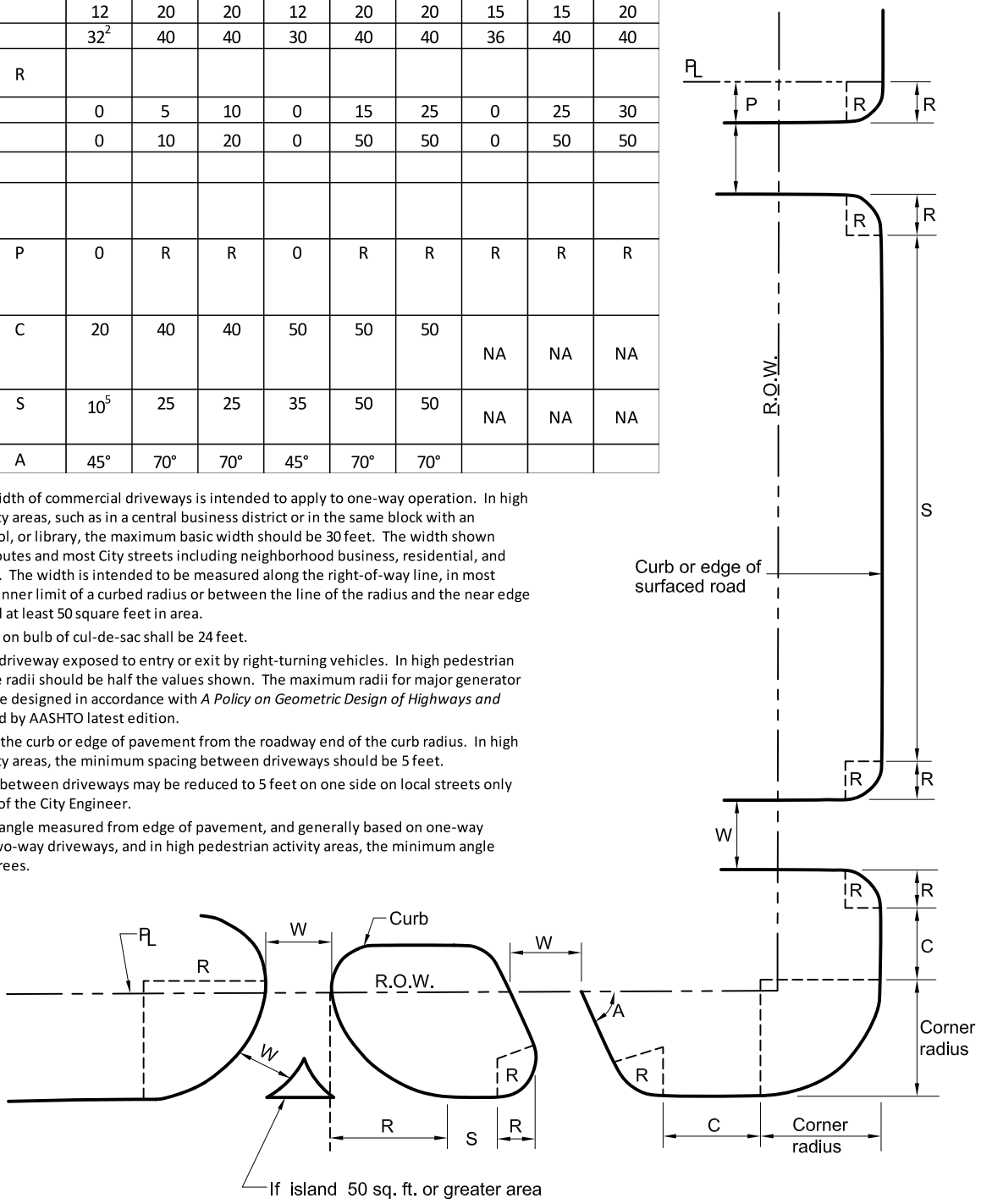
[2]Maximum width on bulb of cul-de-sac shall be 24 feet.

[3]On the side of a driveway exposed to entry or exit by right-turning vehicles. In high pedestrian activity areas, the radii should be half the values shown. The maximum radii for major generator driveways shall be designed in accordance with *A Policy on Geometric Design of Highways and Streets* , published by AASHTO latest edition.

[4]Measured along the curb or edge of pavement from the roadway end of the curb radius. In high pedestrian activity areas, the minimum spacing between driveways should be 5 feet.

[5]Minimum space between driveways may be reduced to 5 feet on one side on local streets only at the discretion of the City Engineer.

[6]Minimum acute angle measured from edge of pavement, and generally based on one-way operation. For two-way driveways, and in high pedestrian activity areas, the minimum angle should be 80 degrees.



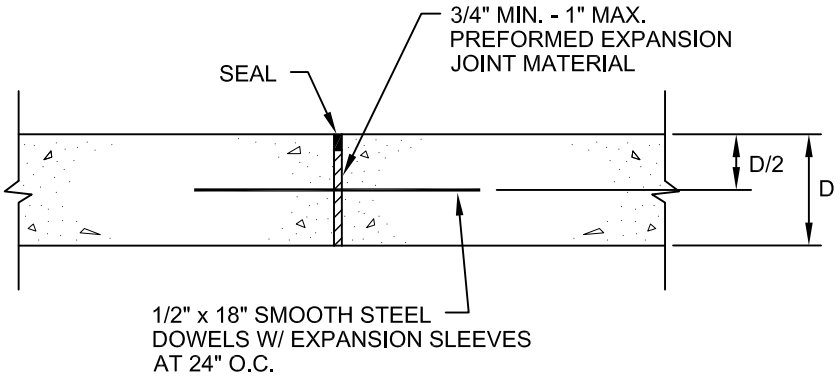
NOT TO SCALE

APPROACH DIMENSIONS DETAIL

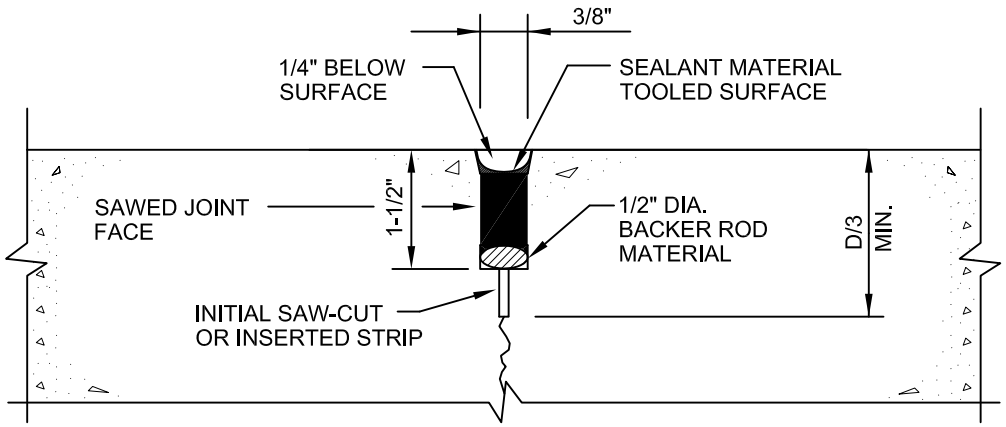
DWG. NO. 03030-3.01k

CITY of SHERIDAN

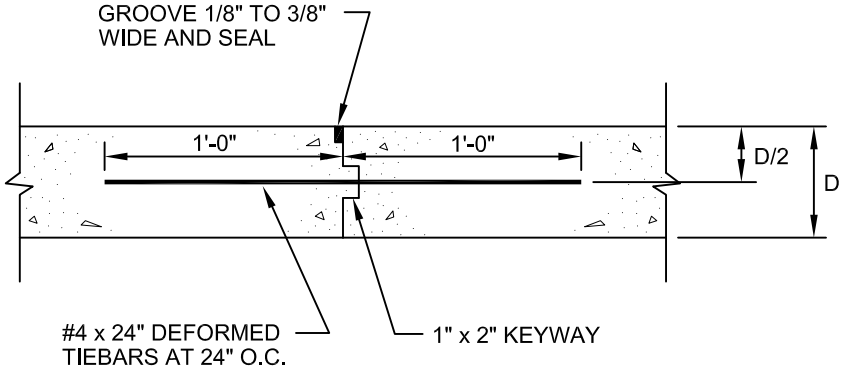
NOVEMBER 2015



A - EXPANSION JOINT



B - CONTRACTION JOINT



C - CONSTRUCTION JOINT

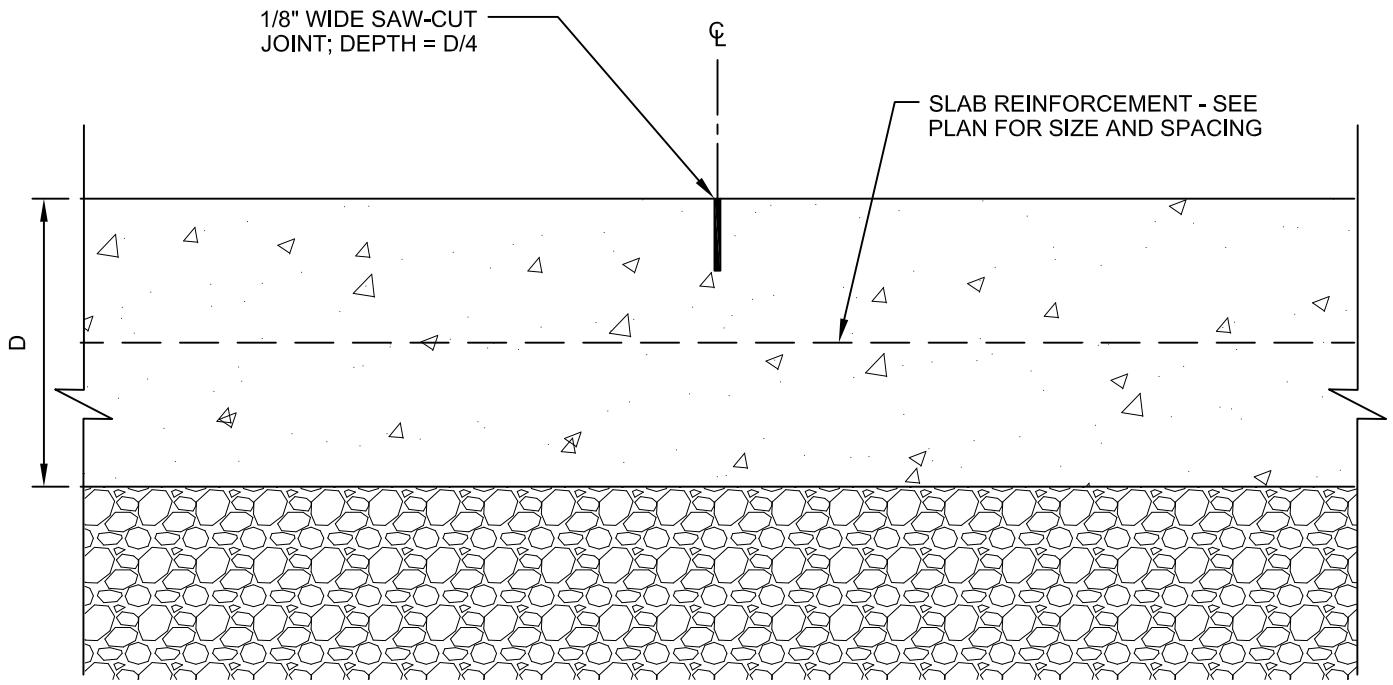
NOT TO SCALE

CONSTRUCTION, EXPANSION AND CONTRACTION JOINT DETAILS

DWG. NO. 03040-2.01a

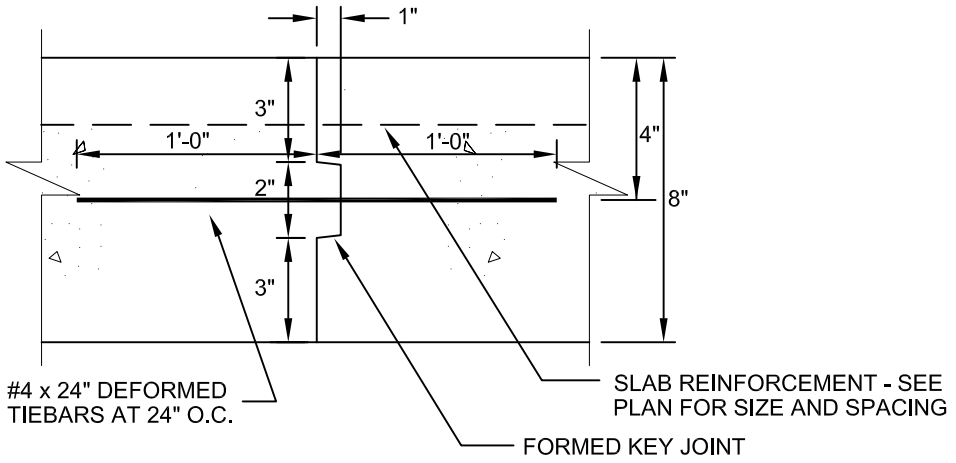
CITY of SHERIDAN

NOVEMBER 2015



NOTE: SAW-CUT AS SOON AS POSSIBLE AFTER SLAB FINISHING, WITHOUT SPALLING OR DISLODGING AGGREGATE.

A - TYPICAL SAW-CUT JOINT



NOTES:

1. RETAINED-IN-PLACE GALVANIZED STEEL KEY FORM MAY BE USED IN LIEU OF FORMED KEY JOINT SHOWN. STEEL KEY FORM SHALL MATCH NOMINAL SLAB THICKNESS.

2. EXTEND REBAR THROUGH KEYWAY AND TIE TO ADJOINING SLAB.

B - TYPICAL KEYWAY JOINT

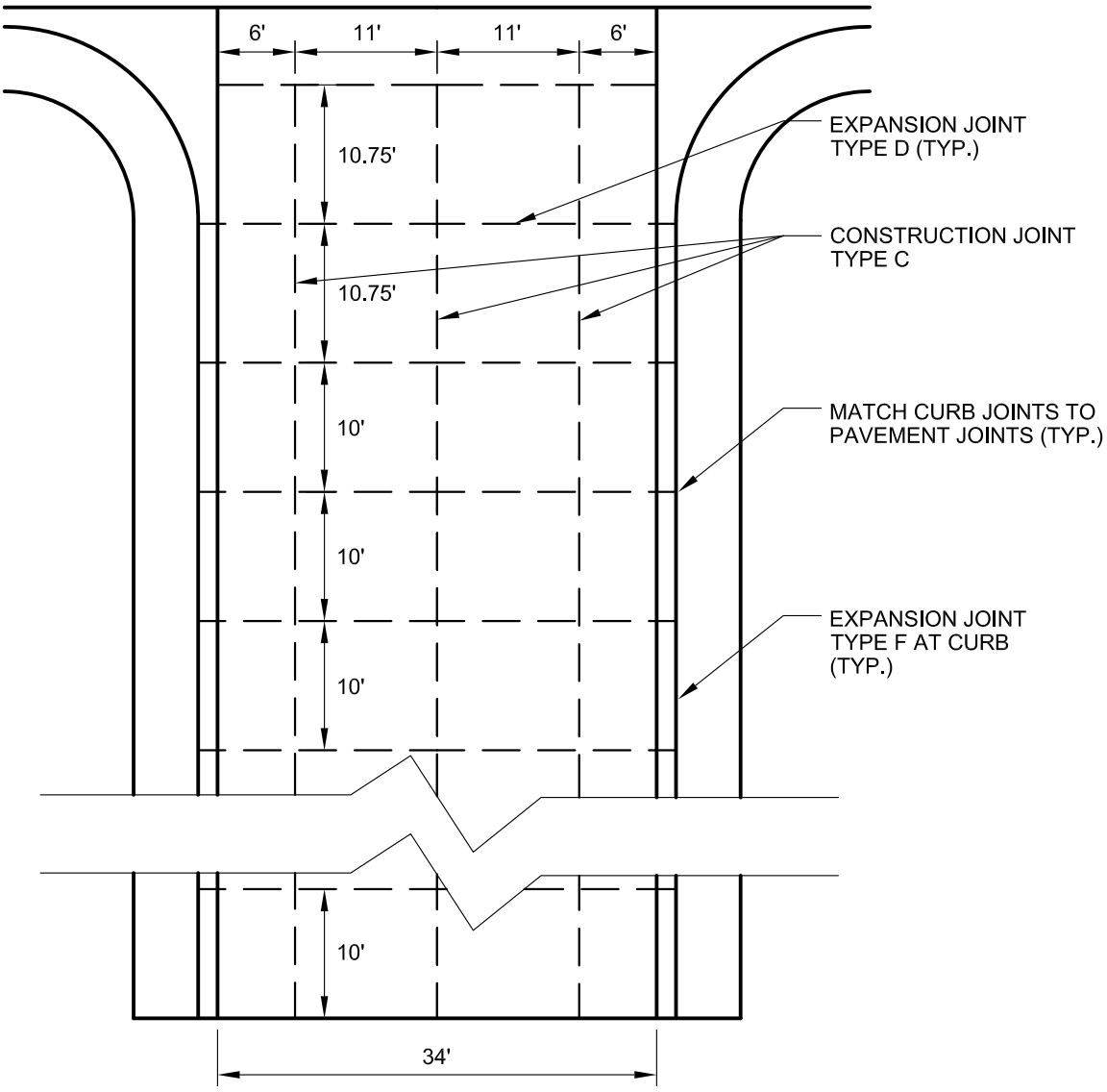
NOT TO SCALE

SAW-CUT / KEYWAY JOINTS DETAIL

DWG. NO. 03040-2.01b

CITY of SHERIDAN

NOVEMBER 2015



NOTES:

1. SEE 03040-2.01D FOR CONCRETE PAVEMENT JOINT DETAILS.
2. THIS DETAIL PERTAINS TO A STANDARD 39-FOOT WIDE STREET (34 FEET OF CONCRETE SURFACING). SEE PLANS FOR OTHER WIDTHS.
3. JOINT A-1 ONLY APPLIES IF THERE IS A TRANSITION TO ASPHALT.
4. JOINT SEALANT IS INCIDENTAL TO CONCRETE PAVING.

* CONTRACTOR SHALL PROVIDE JOINTING PLAN FOR APPROVAL PRIOR TO PAVING.

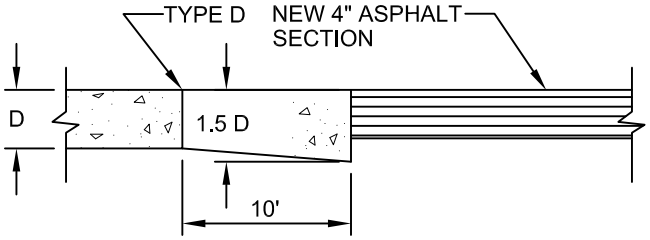
NOT TO SCALE

TYPICAL JOINTS FOR CONCRETE PAVEMENT DETAIL*

DWG. NO. 03040-2.01c

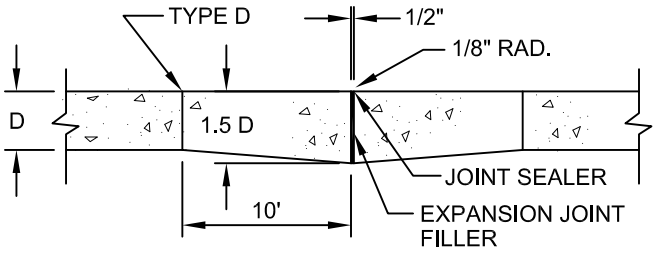
CITY of SHERIDAN

NOVEMBER 2015



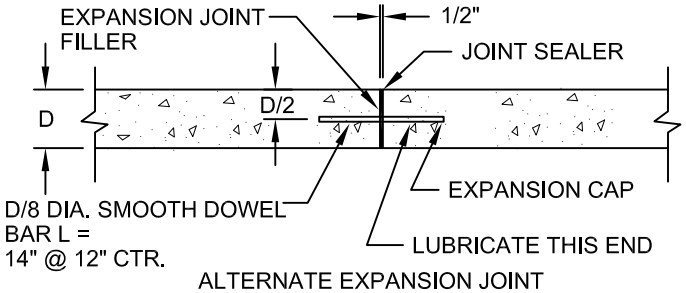
EXPANSION JOINT (ASPHALT CONNECTION)

TYPE A-1



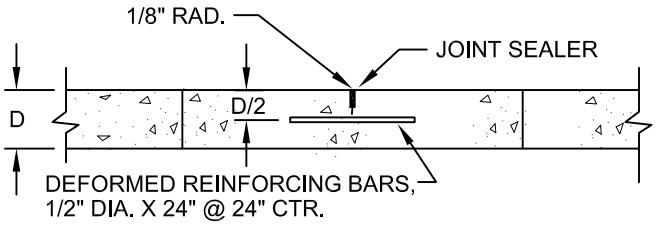
EXPANSION JOINT (CONCRETE CONNECTION)

TYPE A-2



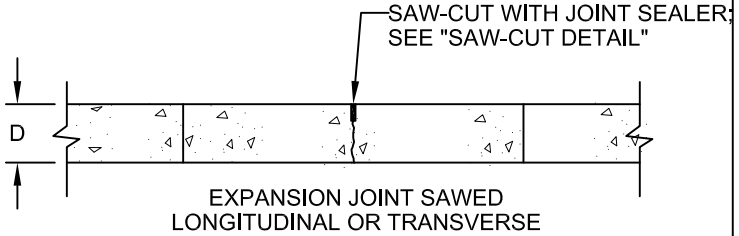
ALTERNATE EXPANSION JOINT

TYPE A-3



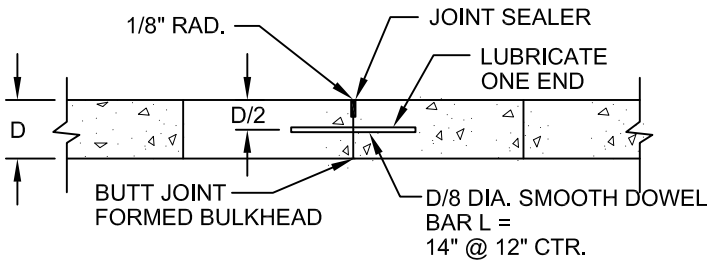
TIED BUTT LONGITUDINAL CONSTRUCTION JOINT

TYPE C



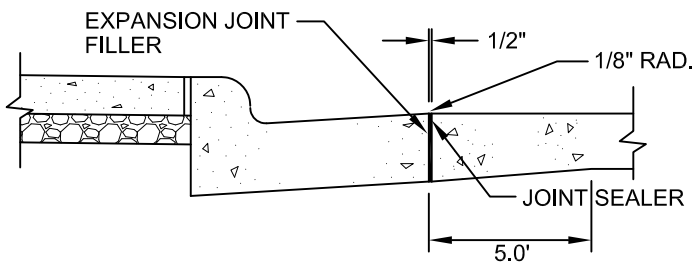
EXPANSION JOINT SAWED LONGITUDINAL OR TRANSVERSE

TYPE D



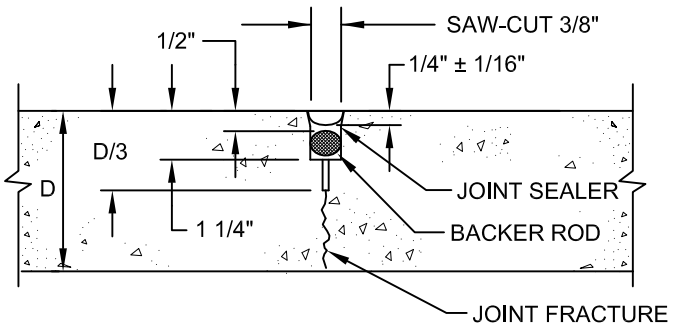
PLANNED TRANSVERSE CONSTRUCTION JOINT (USED AT NORMAL JOINT SPACING)

TYPE E



EXPANSION JOINT (CONCRETE CONNECTION)

TYPE F



SAW-CUT DETAIL

NOTES:

1. THE DEFORMED STEEL TIE BARS SHALL BE PLACED PERPENDICULAR TO THE CENTERLINE OF THE ROADWAY AT THE SPACING SHOWN, BEGINNING 6" FROM THE OUTER EDGES OF THE PAVEMENT.
2. SAWED OR PLASTIC STRIP JOINTS SHALL NOT DEVIATE MORE THAN 1" FROM THE EDGE OF A 12'-0" STRAIGHTEDGE.
3. ONLY ONE OF THE TWO TYPES OF JOINTS (LONGITUDINAL OR TRANSVERSE) SHALL BE FORMED BY A PLASTIC STRIP, AND THE OTHER JOINT SHALL BE SAWED, UNLESS OTHERWISE SHOWN ON THE PLANS.

NOT TO SCALE

CONCRETE PAVEMENT JOINT DETAILS (SEE 03040-2.01C)

DWG. NO. 03040-2.01d

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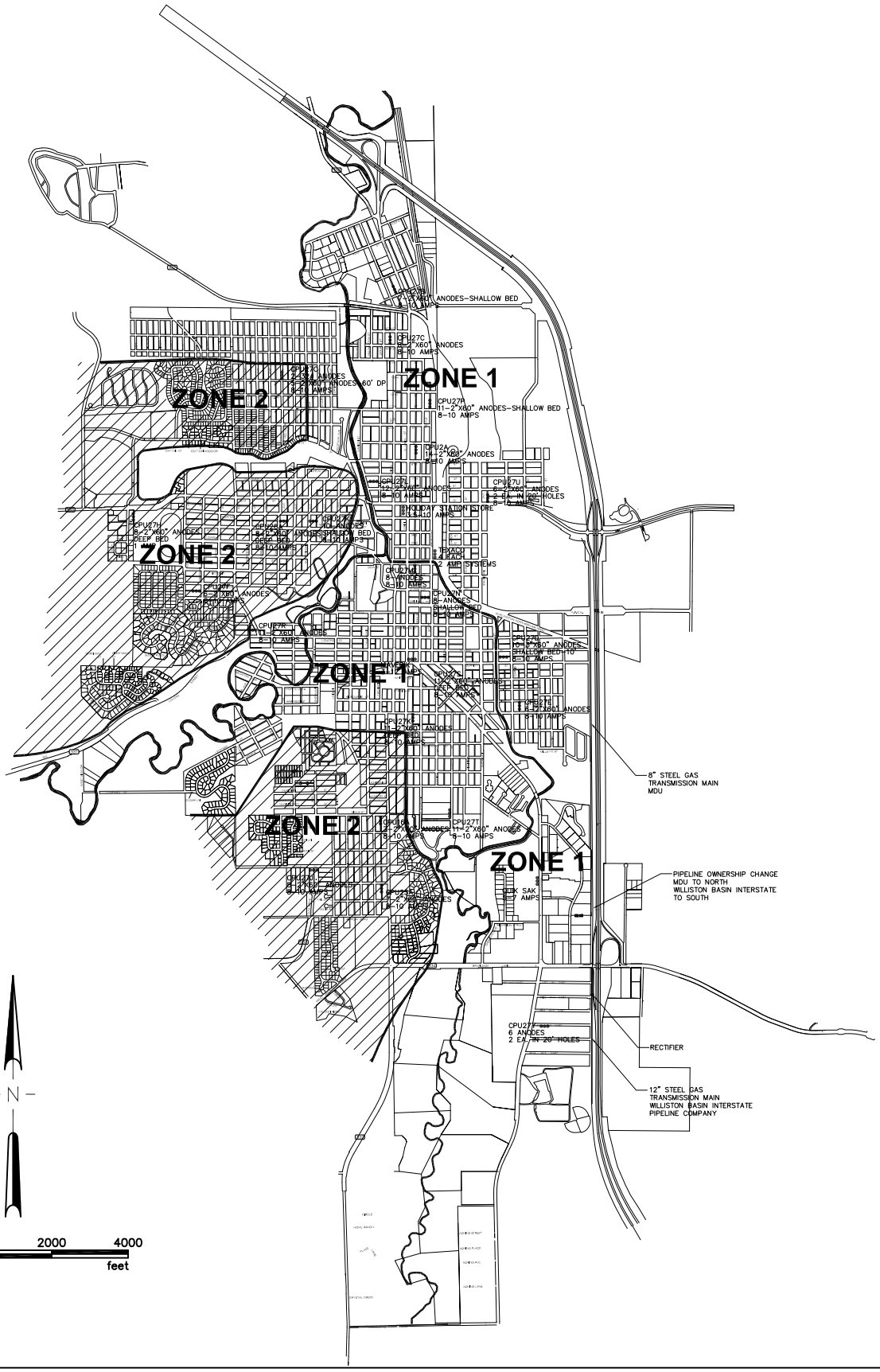

SOIL CORROSION ZONES / SELECTION OF ANODE TYPE

DWG. NO. 13900

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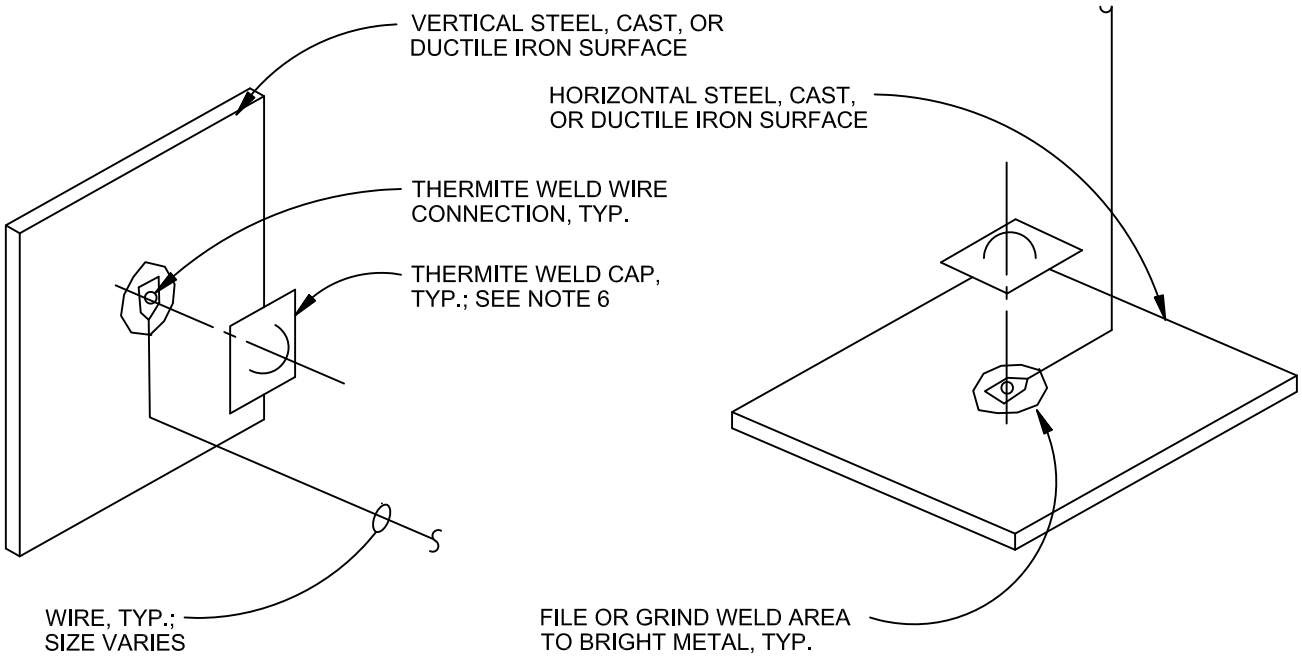
NOVEMBER 2015



NOTES:

1. COPPER SLEEVE REQUIRED FOR THERMITE WELDING OF #10 AWG AND SMALLER WIRE.
2. USE COPPER SLEEVE FOR THERMITE WELDING OF #4 AND #2 AWG JOINT BONDING WIRES.
3. WELDER AND CARTRIDGE SIZE VARIES ACCORDING TO SURFACE SHAPE, MATERIAL, AND HORIZONTAL OR VERTICAL SURFACE. CONSULT WELDER MANUFACTURER FOR RECOMMENDED WELDER AND CARTRIDGE.
4. FOR MULTIPLE WIRE CONNECTIONS TO PIPE, SEPARATE THERMITE WELD WIRE CONNECTIONS BY ONE PIPE DIAMETER MINIMUM, 2'-0" MAXIMUM.
5. USE 15 GRAM MAXIMUM SIZE WELD CARTRIDGES FOR CONNECTIONS TO PETROLEUM AND NATURAL GAS PIPELINES OR STRUCTURES. WIRE CONNECTIONS SHALL BE AS SPECIFIED AND APPROVED BY THE OWNER.
6. COAT COMPLETED THERMITE WELD CONNECTIONS WITH ROYSTON PREFABRICATED HANDYCAP II AND 747 PRIMER.

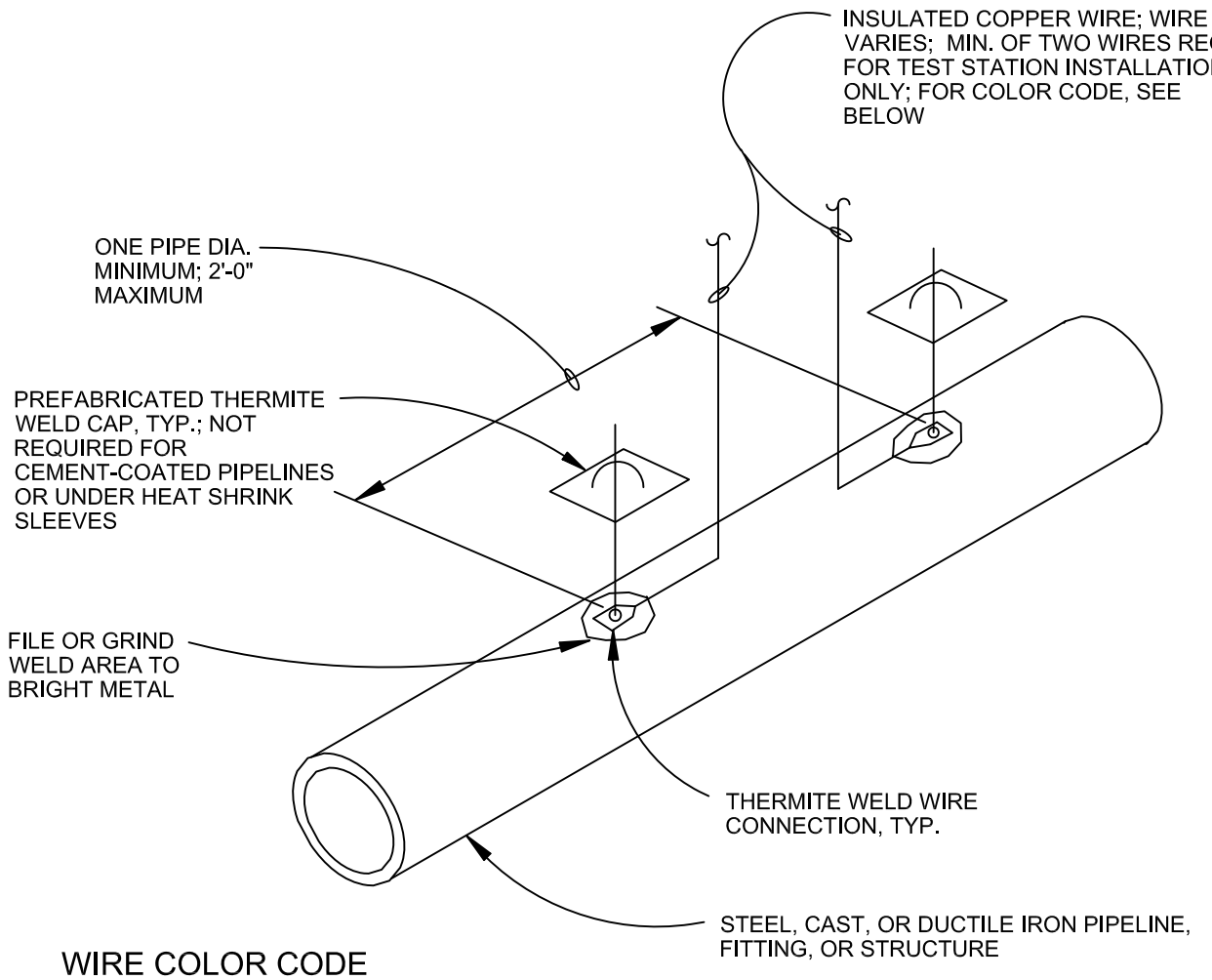
NOT TO SCALE

WIRE CONNECTION FOR VERTICAL AND HORIZONTAL SURFACES DETAIL

DWG. NO. 13901

CITY of SHERIDAN

NOVEMBER 2015



WIRE COLOR CODE

1. PIPELINE TEST WIRES:
   WATER - BLUE
   FOREIGN PIPELINES - WHITE, OR AS REQUESTED BY FOREIGN PIPELINE COMPANY
   CURRENT TEST SPAN WIRES - UPSTREAM SIDE, MARK W/ RED TAPE
2. UNPROTECTED PIPELINE - BLACK
3. CASINGS - ORANGE
4. ANODE LEADS - BLACK
5. REFERENCE ELECTRODE WIRES - YELLOW
6. TRACER WIRES - BLUE

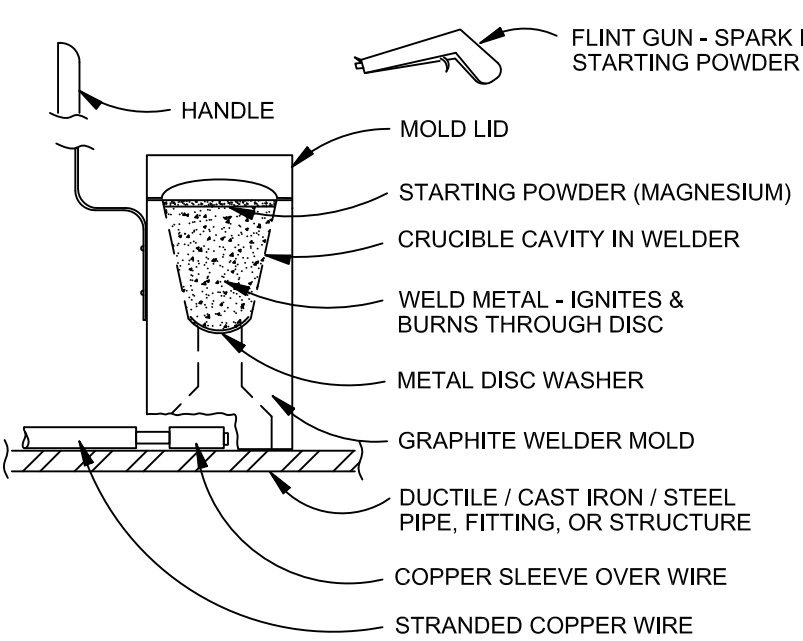
NOT TO SCALE

PIPELINE WIRE CONNECTION DETAIL

DWG. NO. 13902

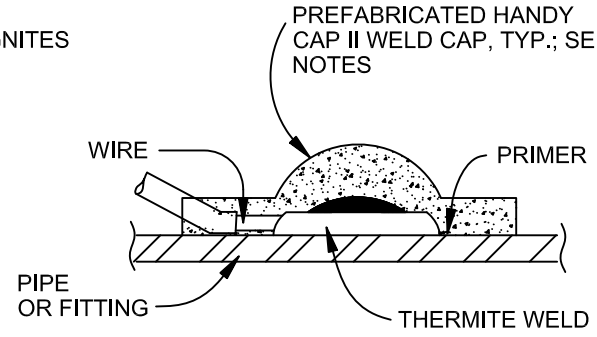
CITY of SHERIDAN

NOVEMBER 2015



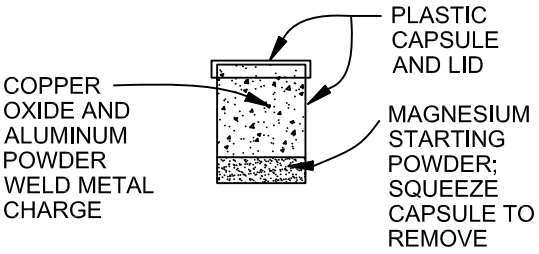
THERMITE WELD

USE CAST IRON CHARGES FOR DUCTILE IRON AND CAST IRON PIPE OR FITTINGS; USE STEEL CHARGES FOR STEEL PIPE OR FITTINGS



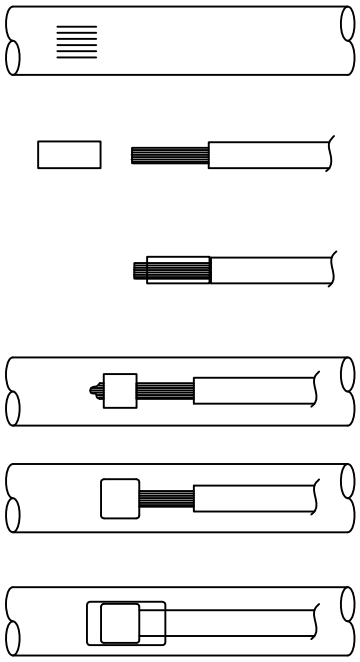
PREFABRICATED WELD CAP

(WIRE BRAZED TO STRUCTURE, TYP.)



WELD METAL CAPSULE

(TYPE AND SIZE VARY)



STEP 1	FILE STRUCTURE CONNECTION AREA (2"x2") TO BARE, BRIGHT, SHINY METAL & CLEAN. ALL WIRE WELDS SHALL BE A MINIMUM OF ONE PIPE DIAMETER APART, UP TO A MAXIMUM OF 2 FEET SEPARATION DISTANCE.
STEP 2	STRIP INSULATION FROM WIRE. ATTACH COPPER SLEEVE (REQUIRED ON No. 10 AWG WIRE & SMALLER & No. 2 & No. 4 AWG JOINT BOND WIRES, AS SPECIFIED).
STEP 3	ATTACH COPPER SLEEVE TO WIRE WITH CORRECT HAMMER DIE OR CRIMP TOOL. FACTORY SLEEVES SHALL BE ANGLED AND FIELD-MADE BONDS SHALL HAVE WIRE EXTEND 1/4" PAST SLEEVE SO WIRE IS EXPOSED TO THERMITE WELD.
STEP 4	PLACE WASHER IN BOTTOM OF MOLD AND FILL CRUCIBLE W/ POWDER; CLOSE LID, HOLD MOLD FIRMLY W/ OPENING AWAY FROM OPERATOR & IGNITE W/ FLINT GUN.
STEP 5	REMOVE SLAG FROM CONNECTION; VISUALLY INSPECT & TAP WELD FOR SOUNDNESS W/ HAMMER. REPLACE ALL POORLY-FORMED, UNSIGHTLY, OR DEFECTIVE WELDS.
STEP 6	CLEAN & COAT CONNECTION & EXPOSED STRUCTURE SURFACE W/ SPECIFIED PREFABRICATED WELD CAP, HEAT SHRINK SLEEVE, OR PIPE COATING. REPAIR COATING PER COATING MANUFACTURER'S RECOMMENDATION.

GENERAL EXOTHERMIC WELD PROCEDURES

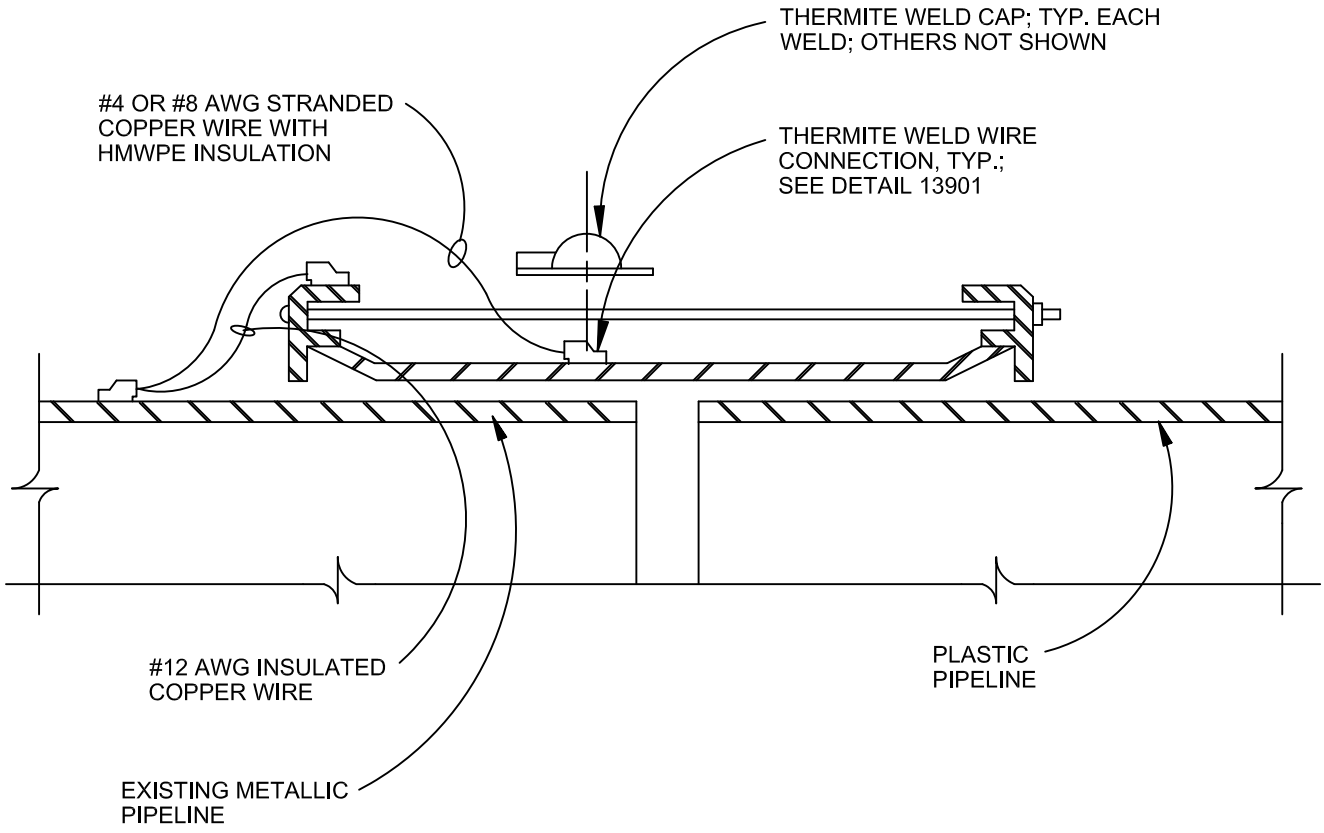
NOT TO SCALE

THERMITE WELD AND WIRE CONNECTION DETAIL

DWG. NO. 13903

CITY of SHERIDAN

NOVEMBER 2015



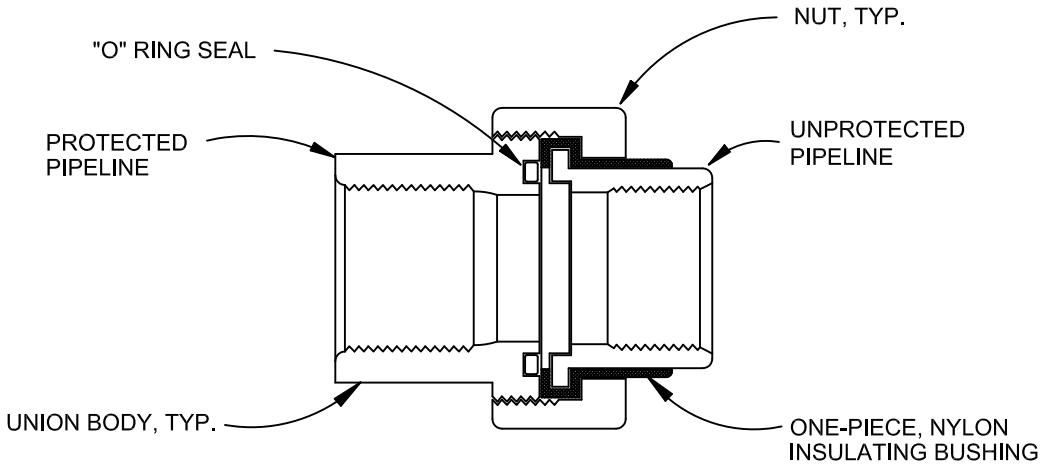
NOT TO SCALE

BONDING OF FLEXIBLE COUPLING AT CONNECTION TO PLASTIC PIPE DETAIL

DWG. NO. 13910

CITY of SHERIDAN

NOVEMBER 2015



NOTES:

1. "O" RING TYPE INSULATING UNION SHOWN. OTHER TYPES (BRASS INSULATED CURB BALL VALVES, STRAIGHT COUPLINGS, CORPORATION BALL VALVES, METER COUPLINGS, ETC.) SIMILAR.

2. INSULATING O-RING AND NYLON INSULATOR BUSHING SHALL BE MOLDED & BONDED TO THE UNION BODY BY MANUFACTURER.

3. ABOVE-GRADE IRON PIPE SHALL HAVE GALVANIZED OR COATED STEEL BODIES; UNIONS IN BURIED OR CORROSIVE AREAS SHALL BE COATED.

4. COPPER LINE INSULATORS SHALL HAVE BRASS UNION BODY WITH INSULATORS FORMED AND MOLDED INTO BRASS BODY.

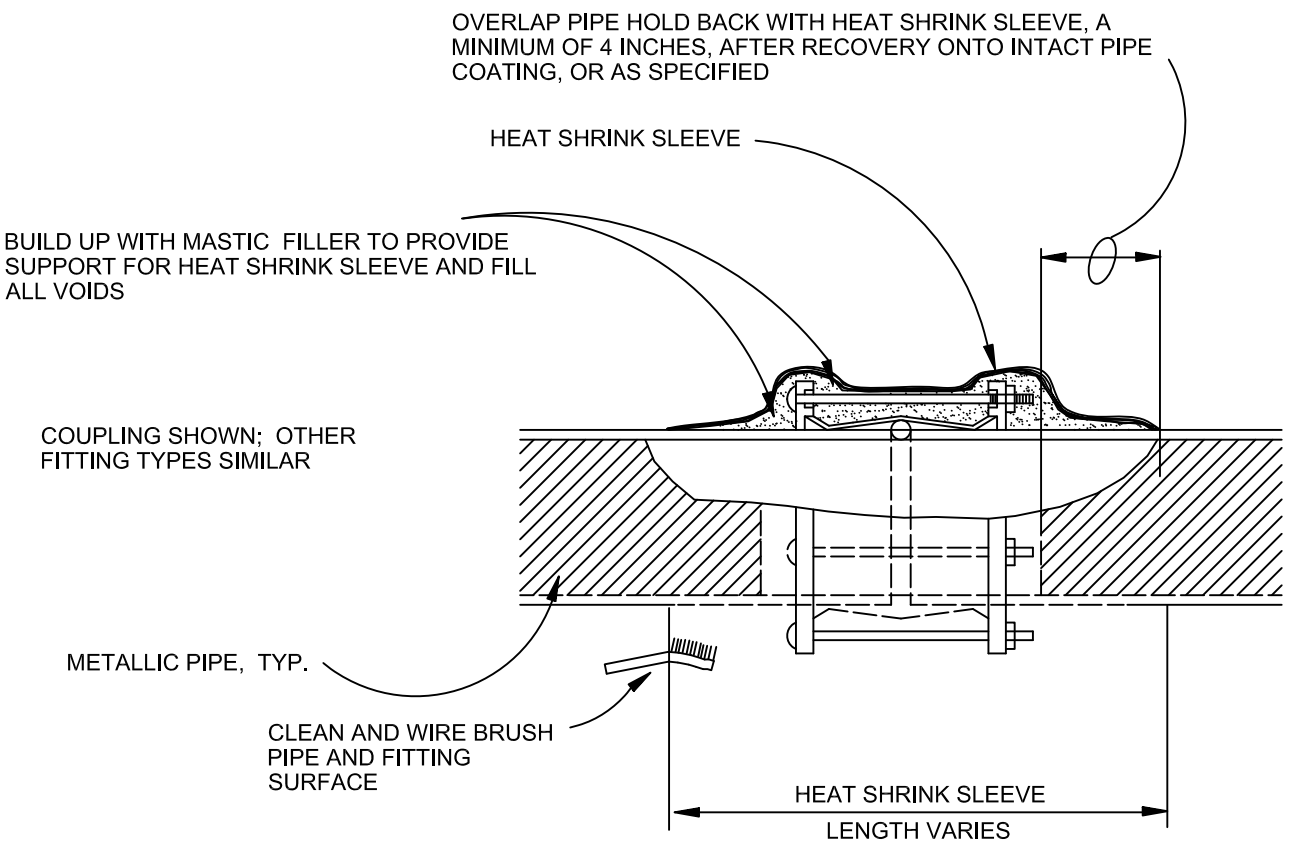
NOT TO SCALE

INSULATING UNIONS AND / OR COPPER SERVICE INSULATORS DETAIL

DWG. NO. 13913

CITY of SHERIDAN

NOVEMBER 2015



NOTES:

1. MASTIC FILLER AND SLEEVE SHALL BE AS RECOMMENDED BY HEAT SHRINK MANUFACTURER FOR EACH PIPE AND JOINT TYPE.

2. CLEAN AND ROUGHEN FITTING AND PIPE SURFACE WITH WIRE BRUSH AND APPLY MASTIC FILLER AND HEAT SHRINK SLEEVE PER HEAT SHRINK SLEEVE MANUFACTURER'S DIRECTIONS.

3. JOINT BOND WIRES / STRAPS, ANODE & TEST LEADS (NOT SHOWN) SHALL BE COMPLETELY ENCASED UNDER THE HEAT SHRINK SLEEVE COATING.

4. HEAT SHRINK SLEEVE JOINT COATING SHALL COMPLETELY ENCASE PIPE HOLD BACK, JOINT, AND EXTEND A MINIMUM 4" ONTO INTACT PIPE COATING. MASTIC FILLER SHALL PROVIDE SMOOTH TRANSITION AT ALL EDGES AND STEP-DOWNS AND FILL ALL VOIDS.

5. CORROSION PROTECTION IS SHOWN FOR FLEXIBLE COUPLING JOINT TYPE; PROTECTION OF OTHER JOINT AND FITTING TYPES SIMILAR.

6. COUPLING SHOWN; OTHER FITTING TYPES SIMILAR.

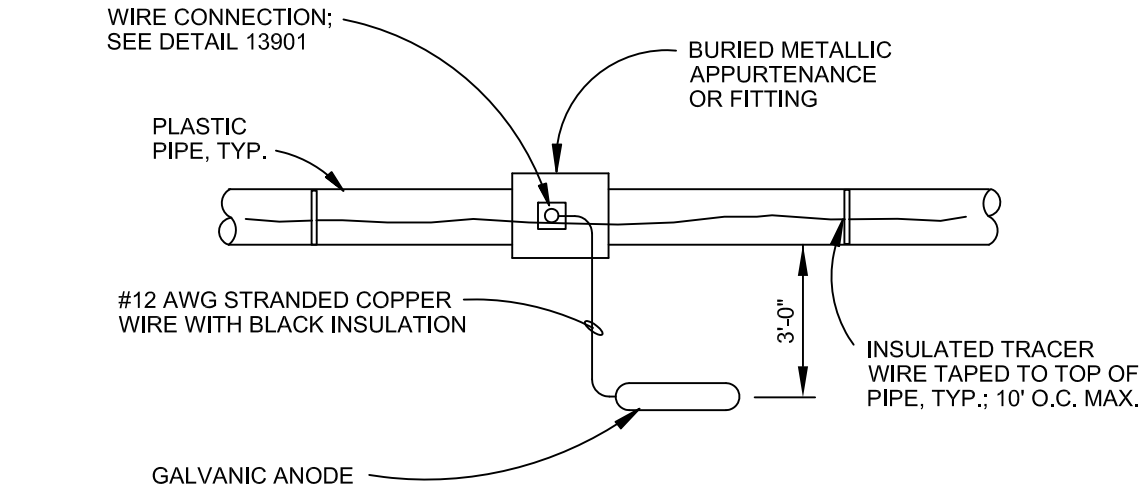
NOT TO SCALE

HEAT SHRINK SLEEVE FOR FLEXIBLE COUPLINGS OR FITTINGS DETAIL

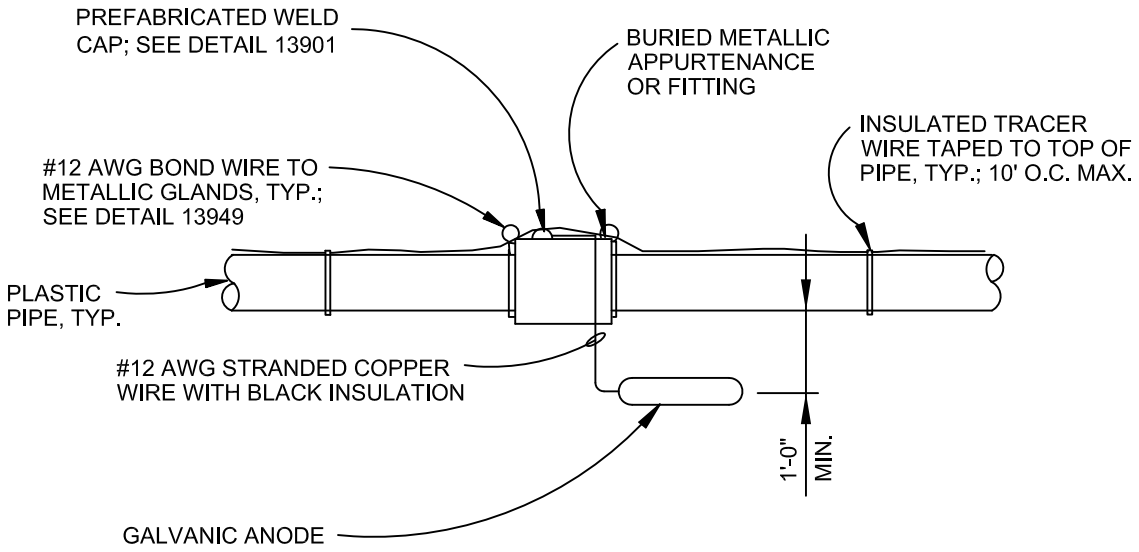
DWG. NO. 13918

CITY of SHERIDAN

NOVEMBER 2015



PLAN



ELEVATION

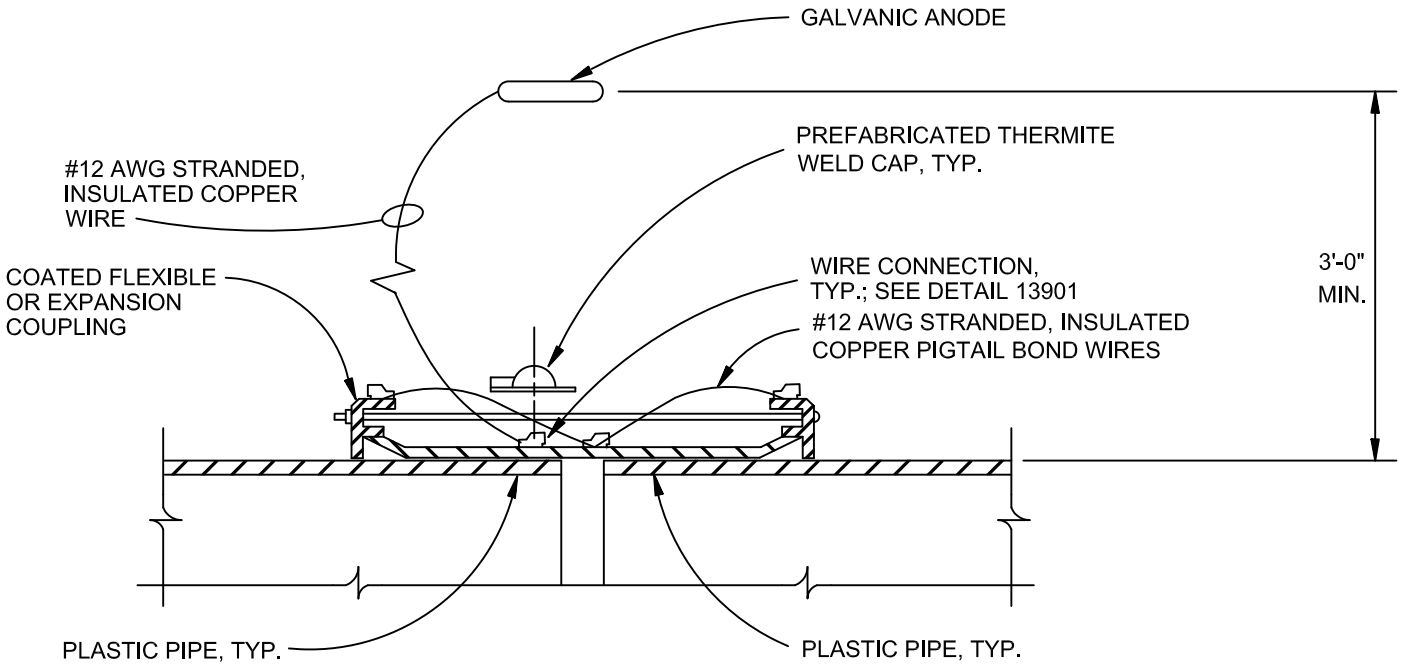
NOT TO SCALE

GALVANIC ANODE INSTALLATION AT BURIED METALLIC FITTINGS DETAIL

DWG. NO. 13940

CITY of SHERIDAN

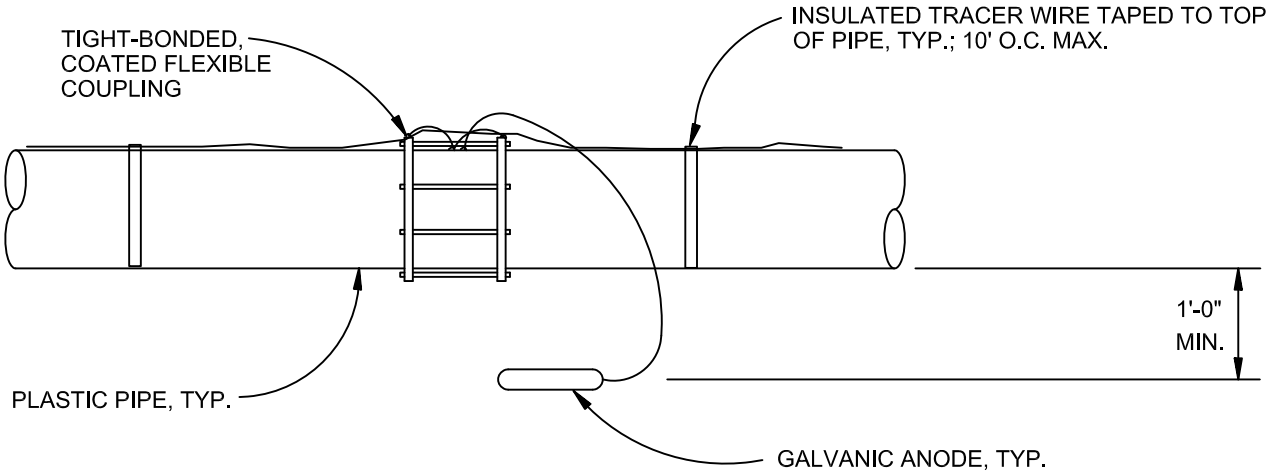
NOVEMBER 2015



SECTION

NOTE:

PROVIDE NUMBER & SIZE OF ANODES AS SPECIFIED. MINIMUM SHALL BE 1 ANODE.



ELEVATION

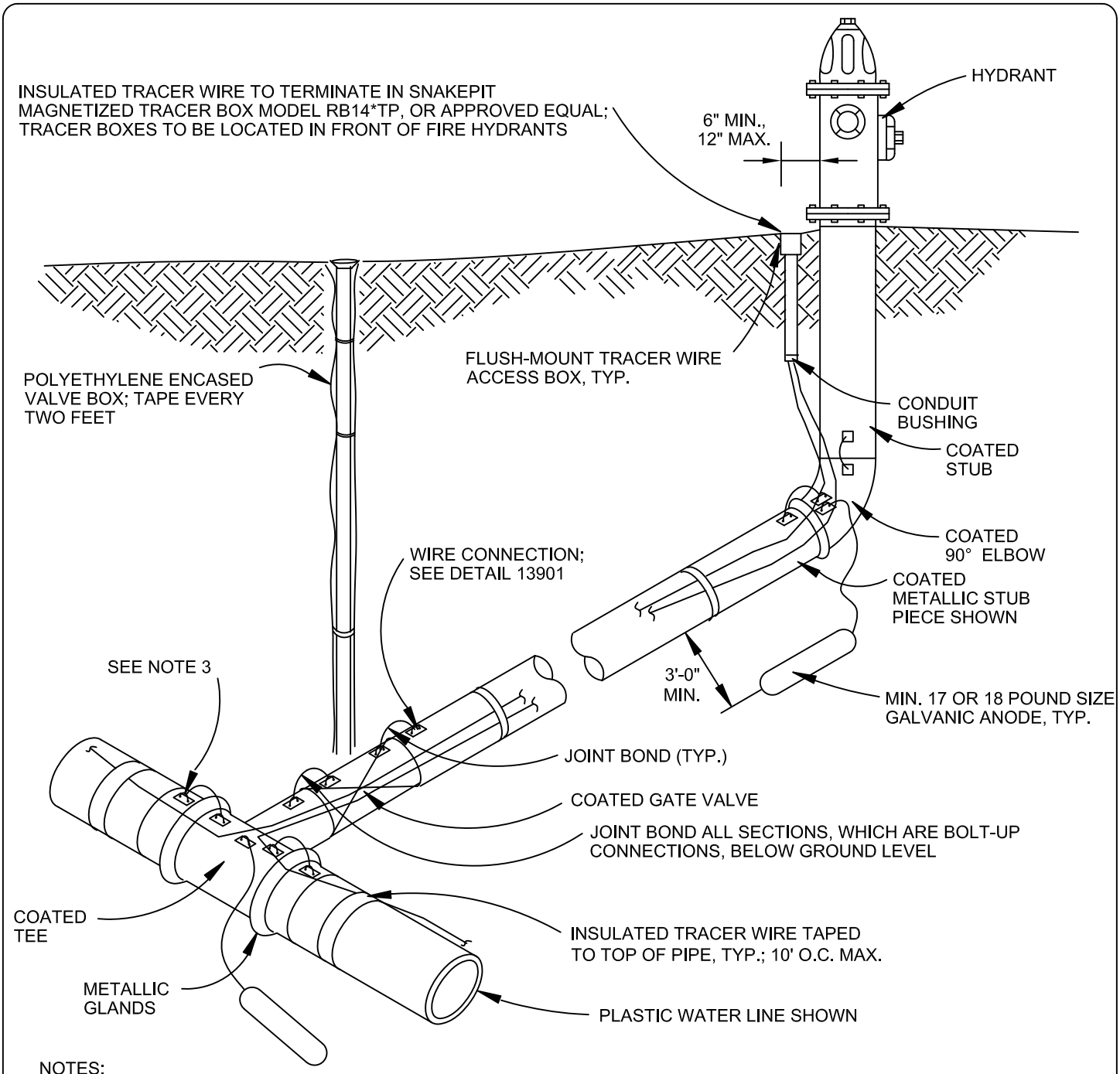
NOT TO SCALE

CORROSION PROTECTION FOR FLEXIBLE COUPLING ON PLASTIC PIPE DETAIL

DWG. NO. 13943

CITY of SHERIDAN

NOVEMBER 2015



NOTES:

1. INSTALL GALVANIC ANODE 1'-0" BELOW PIPELINE, FITTING, OR VALVE INVERT ELEVATION.
2. INSTALL MINIMUM NUMBER AND SIZE OF GALVANIC ANODES SPECIFIED; MINIMUM OF ONE PER EACH METALLIC FITTING OR TWO TOTAL ASSEMBLY.
3. #12 AWG PIGTAIL BOND WIRES TO METALLIC GLANDS, TYP. (SEE DETAIL 13949); OR, INSTALL MARS CAP ON EACH STAINLESS STEEL BOLT.

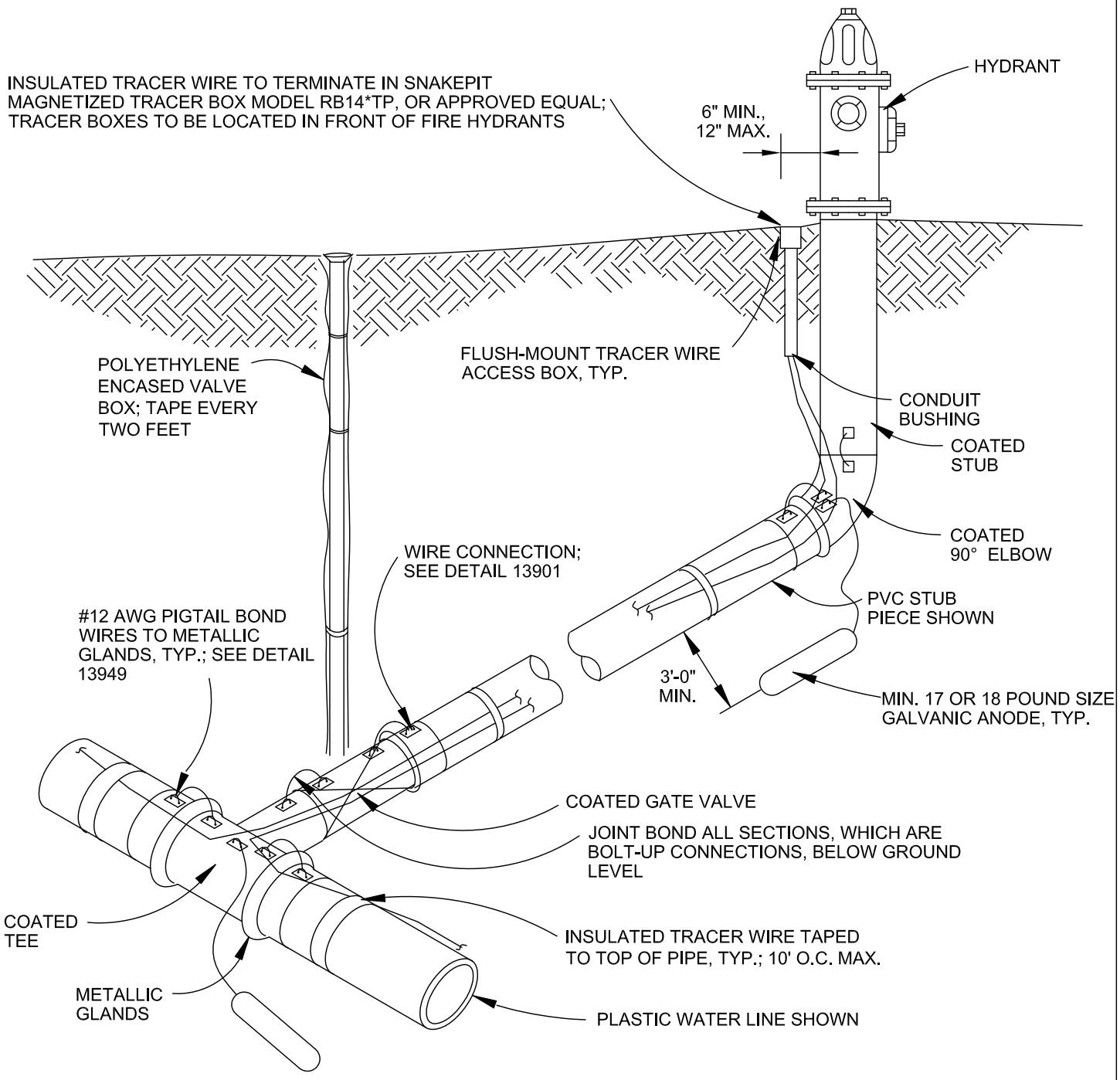
NOT TO SCALE

GALVANIC ANODE INSTALLATION AT HYDRANT ASSEMBLIES W/ DUCTILE STUB DETAIL

DWG. NO. 13944D

CITY of SHERIDAN

NOVEMBER 2015



NOTES:

1. INSTALL GALVANIC ANODE 1'-0" BELOW PIPELINE, FITTING, OR VALVE INVERT ELEVATION.
2. INSTALL MINIMUM NUMBER AND SIZE OF GALVANIC ANODES SPECIFIED; MINIMUM OF ONE PER EACH METALLIC FITTING OR TWO TOTAL ASSEMBLY.

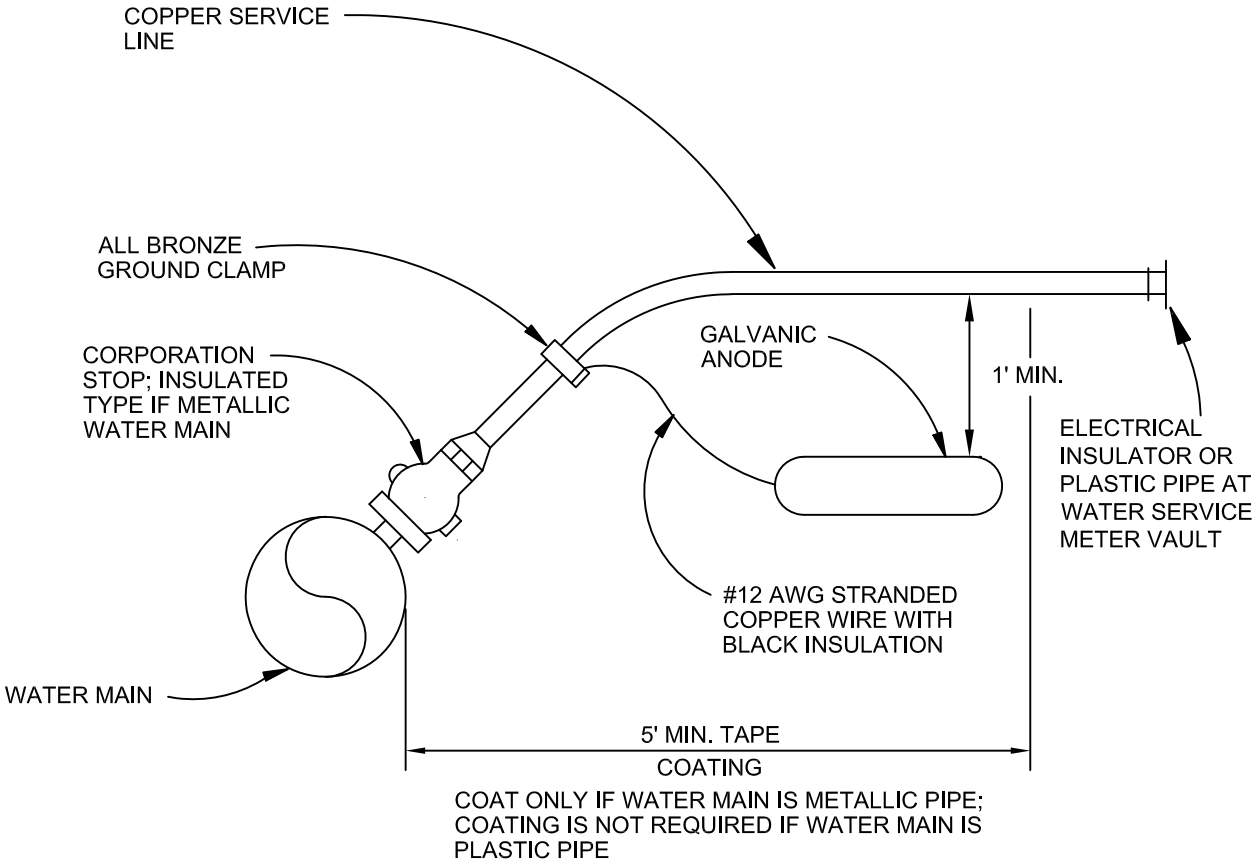
NOT TO SCALE

GALVANIC ANODE INSTALLATION AT HYDRANT ASSEMBLIES W/ PVC STUB DETAIL

DWG. NO. 13944P

CITY of SHERIDAN

NOVEMBER 2015



NOTES:

1. INSTALL ANODE 3'-5' FROM PIPE AND 1'-0" BELOW PIPE INVERT ELEVATION. TAPE COAT SERVICE LINE FROM METALLIC WATER MAIN, MIN. 5', OR AS SPECIFIED. APPLY TAPE COATING PER SPECIFICATION.
2. ACTUAL ORIENTATION OF SERVICE LINE IS IN THE HORIZONTAL PLANE.
3. WITH HDPE SERVICE LINE, WRAP CORPORATION STOP WITH PETROLATUM TAPE.

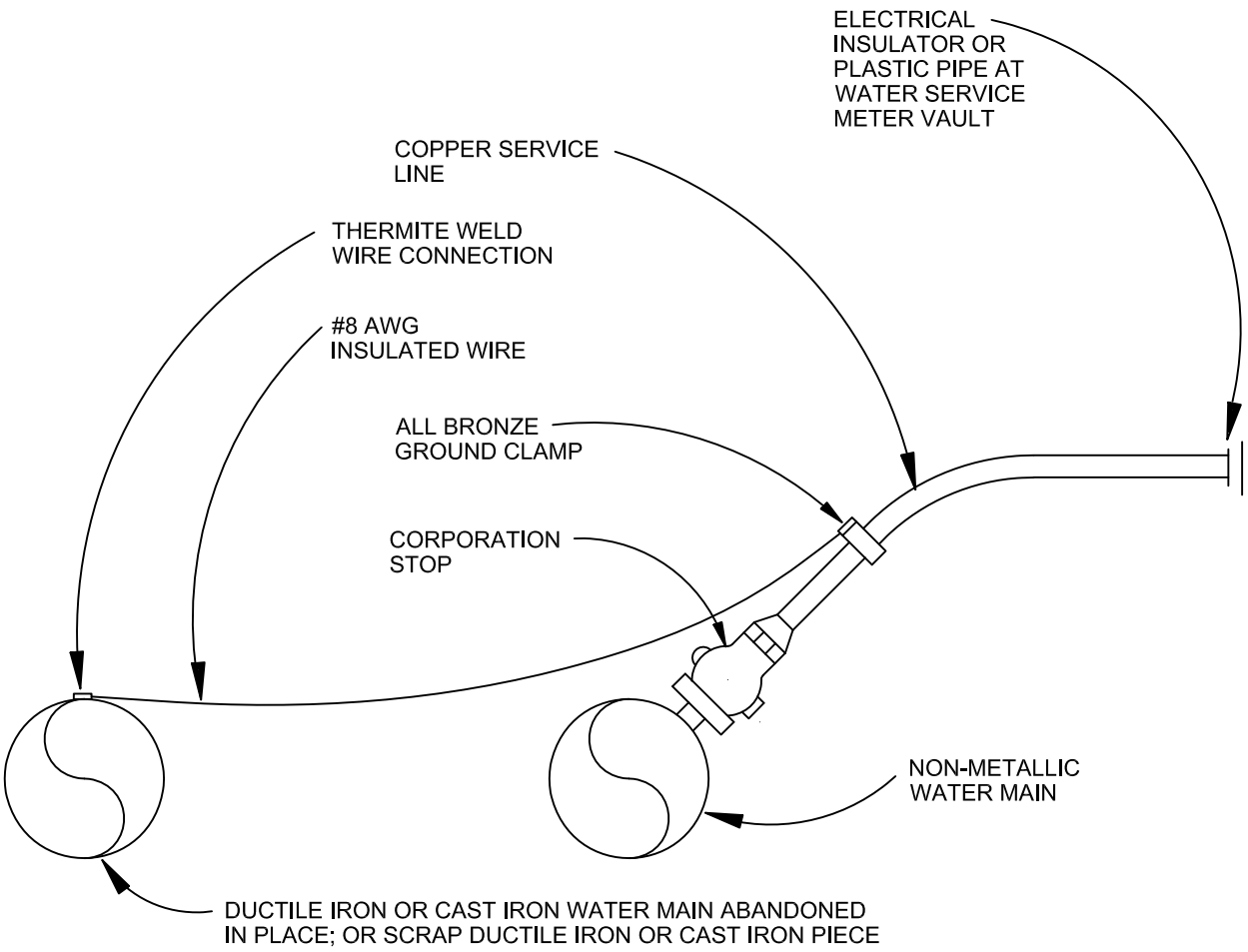
NOT TO SCALE

ANODE WIRE CONNECTION TO COPPER SERVICE LINE DETAIL

DWG. NO. 13945

CITY of SHERIDAN

NOVEMBER 2015



NOTE:

PIPE ANODE SHALL BE 6-INCH DIAMETER MINIMUM CAST OR DUCTILE IRON PIPE, 10-FOOT MINIMUM LENGTH.

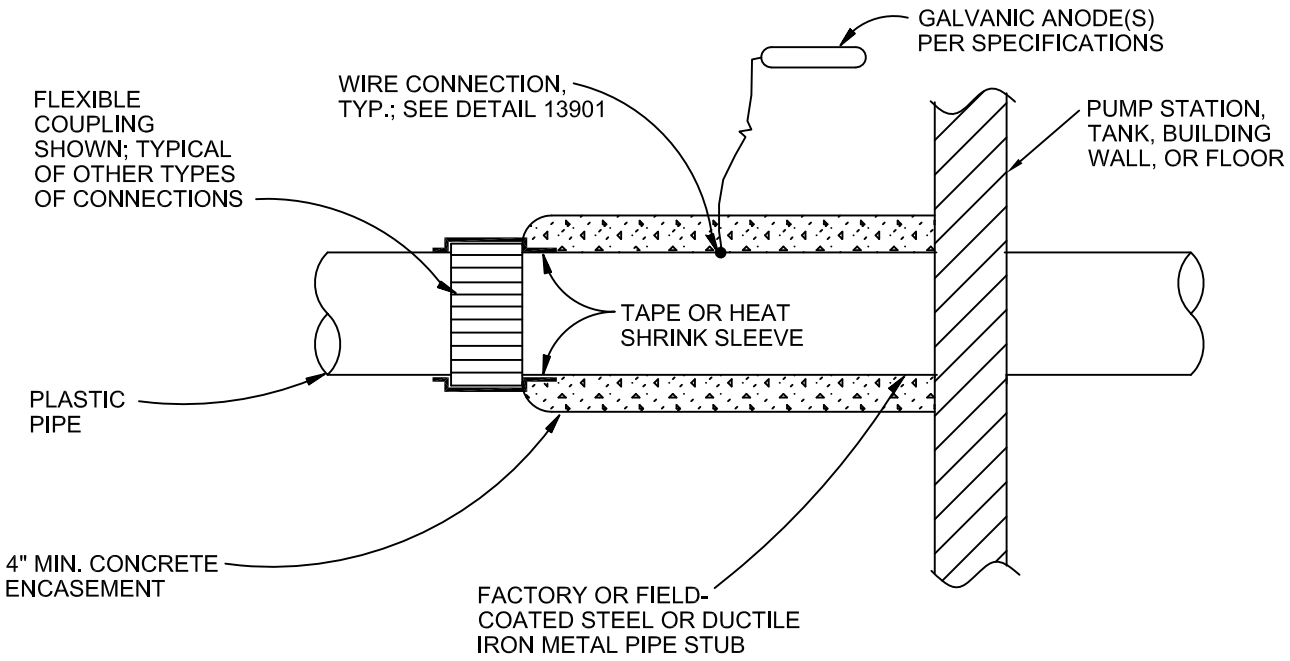
NOT TO SCALE

DUCTILE OR CAST IRON PIPE ANODE DETAIL

DWG. NO. 13946

CITY of SHERIDAN

NOVEMBER 2015



NOTES:

1. CADWELD WIRES. ASSEMBLE AND TEST COUPLING FITTING CONNECTION AND COAT PRIOR TO CONCRETE ENCASEMENT AND BACKFILLING.
2. COAT METAL PIPE STUB PER SPECIFICATIONS PRIOR TO ENCASEMENT.
3. CENTER 12" WIDE JOINT WRAP TAPE OR HEAT SHRINK SLEEVE ON FLEXIBLE COUPLING AND PIPE INTERFACE AFTER TESTING AND BEFORE ENCASEMENT.
4. COMPLETELY ENCASE COATED STEEL OR DUCTILE IRON PIPE STUB BETWEEN FLEXIBLE COUPLING AND CONCRETE STRUCTURE, BUILDING WALL, FLOOR, OR UNDER TANK WITH A MINIMUM 4-INCH THICK CONCRETE LAYER.
5. INSTALL GALVANIC ANODE(S) TO CONCRETE ENCASED PIPE; ONE MINIMUM.
6. PROVIDE COMPLETE CONCRETE ENCASEMENT FOR FULL LENGTH OF METAL PIPE STUB UNDER CONCRETE FLOOR SLABS OR TANK BOTTOMS.

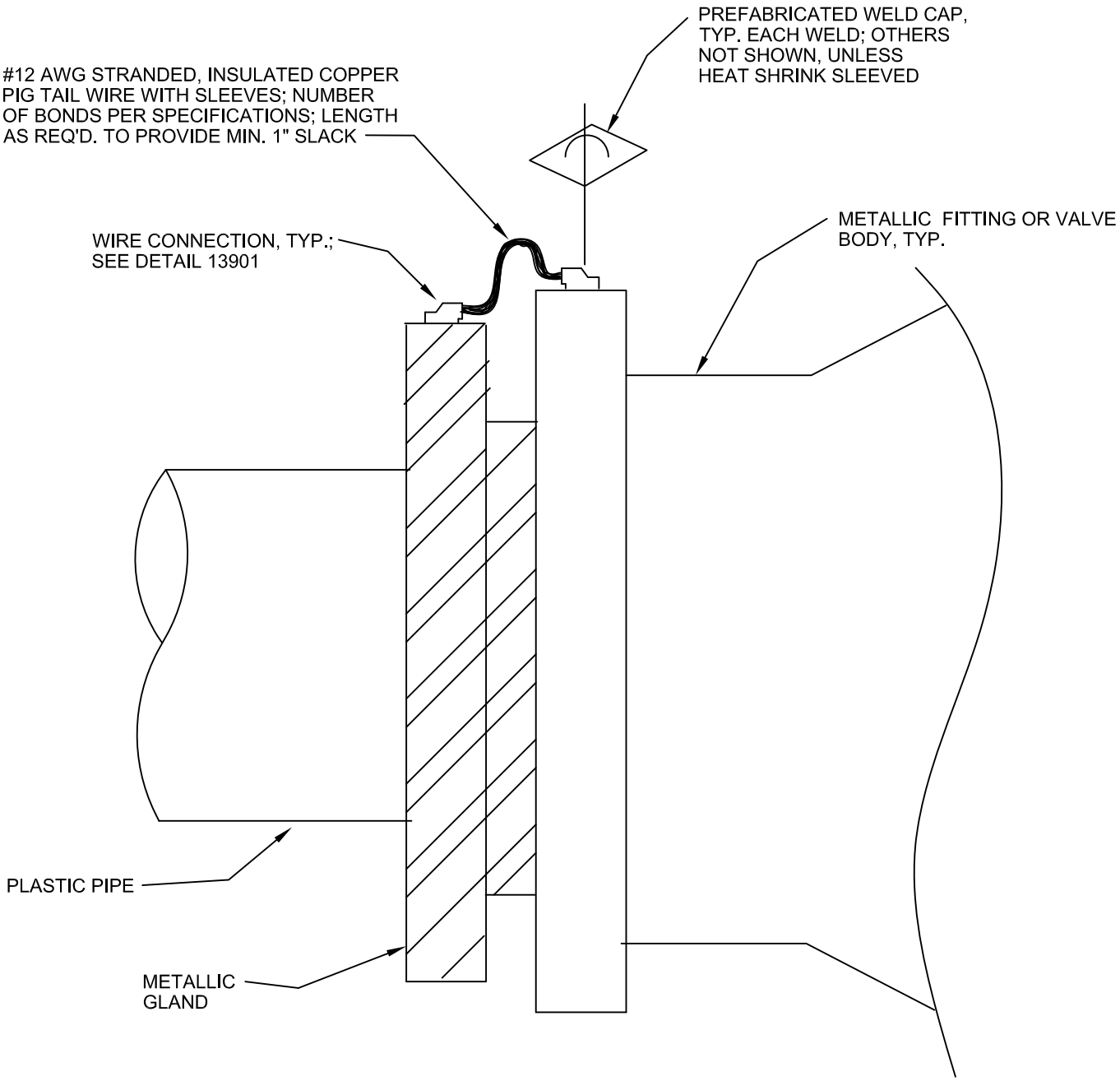
NOT TO SCALE

CONCRETE-ENCASED METAL PIPE STUB BETWEEN PLASTIC PIPE FLEXIBLE COUPLING AND CONCRETE STRUCTURE CONNECTION DETAIL

DWG. NO. 13948

CITY of SHERIDAN

NOVEMBER 2015



NOTES:

1. BOND PLASTIC PIPE METALLIC GLANDS TO METALLIC FITTING BODY.

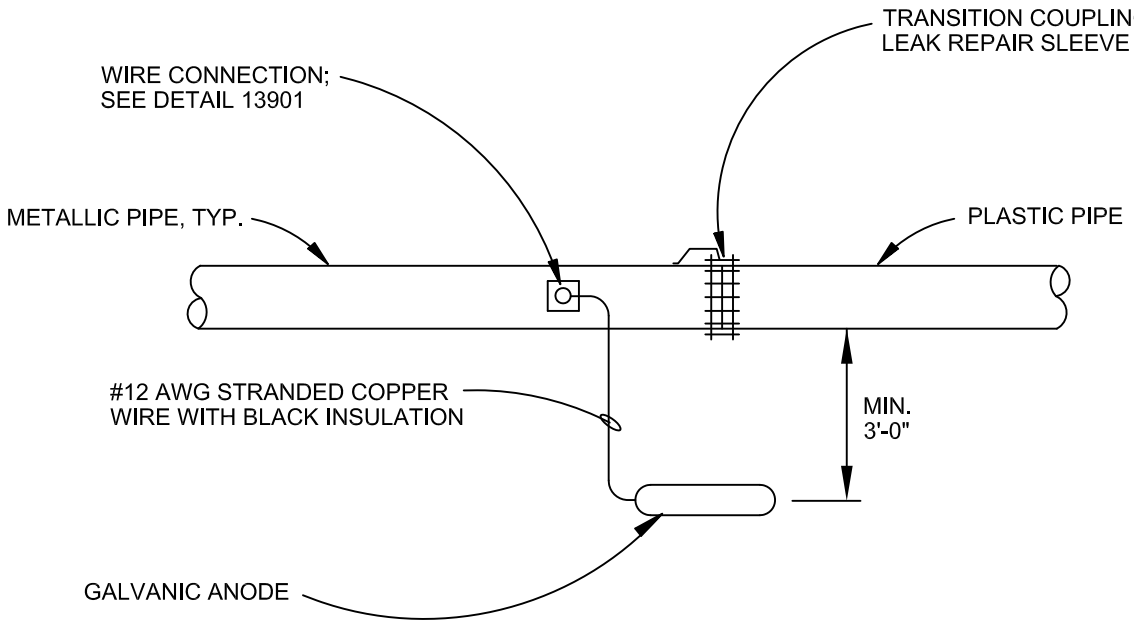
NOT TO SCALE

METALLIC FITTING GLANDS DETAIL

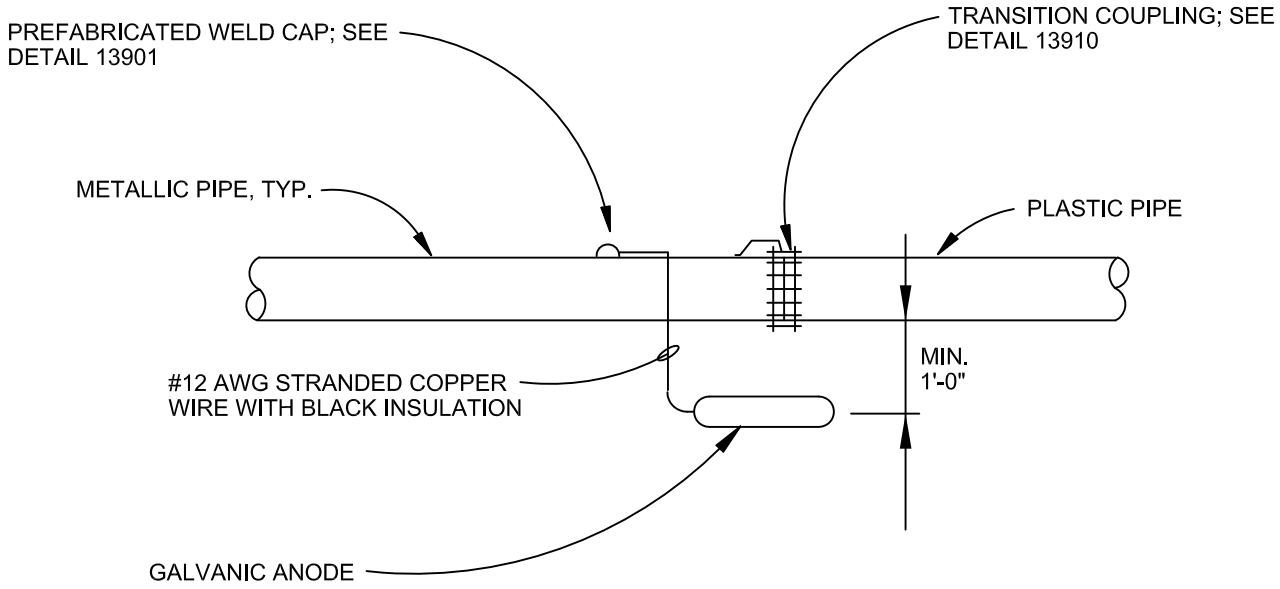
DWG. NO. 13949

CITY of SHERIDAN

NOVEMBER 2015



PLAN



ELEVATION

NOTE:

1. INSTALL TYPE, SIZE, AND NUMBER OF ANODES SPECIFIED.
2. INSTALL 2 ANODES (17 OR 18 POUND) AT ALL LEAK REPAIR LOCATIONS.

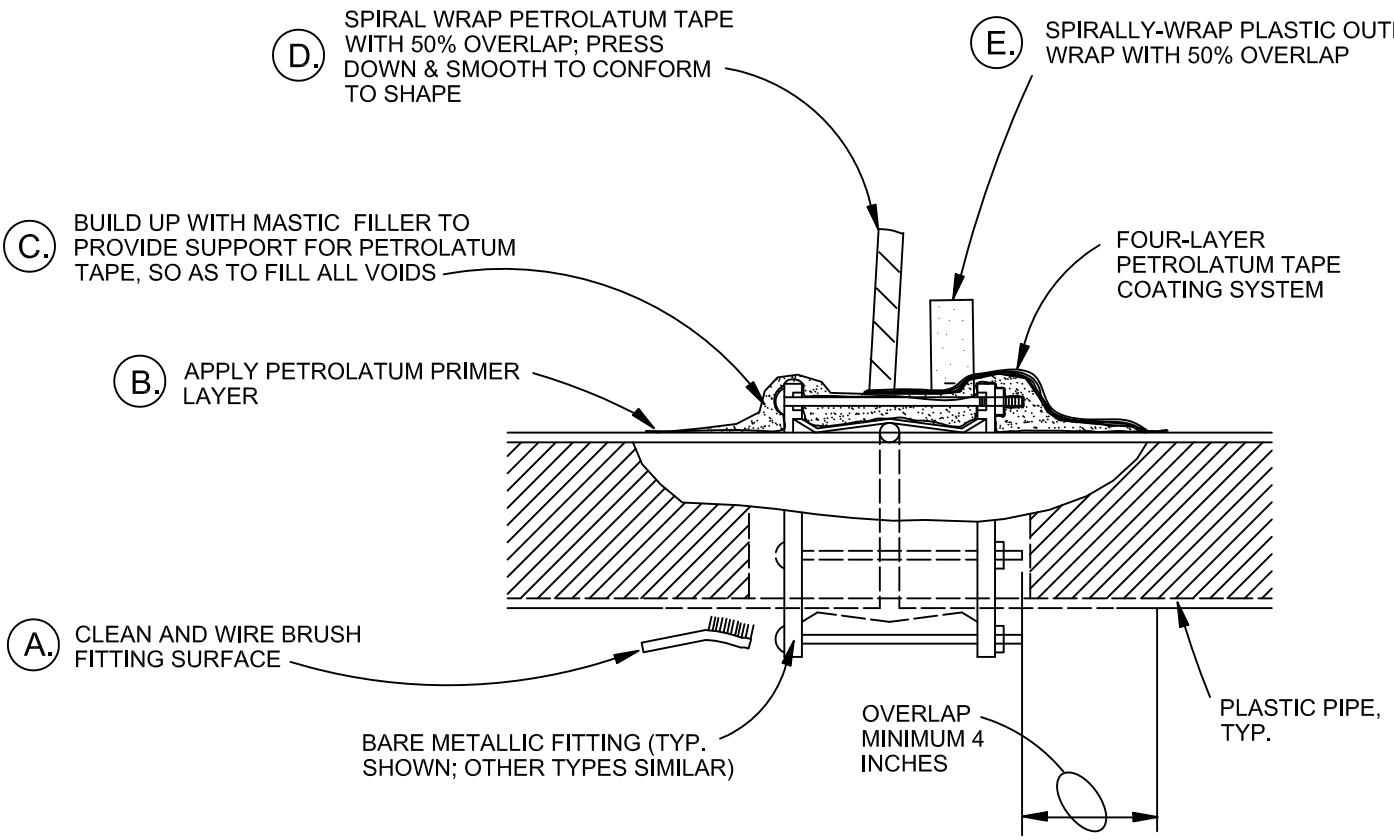
NOT TO SCALE

GALVANIC ANODE INSTALLATION FOR EXISTING METALLIC PIPE CONNECTIONS OR LEAK REPAIR LOCATIONS DETAIL

DWG. NO.	13950R

CITY of SHERIDAN

NOVEMBER 2015



NOTES:

1. PRIMER, MASTIC FILLER, TAPE, AND OUTER WRAP AS RECOMMENDED BY TAPE MANUFACTURER FOR EACH FITTING TYPE AND ENVIRONMENT.

2. CLEAN AND ROUGHEN FITTING SURFACE WITH WIRE BRUSH AND APPLY PETROLATUM PRIMER LAYER, MASTIC FILLER, PETROLATUM TAPE, AND PLASTIC OUTER WRAP, PER MANUFACTURER'S DIRECTIONS.

3. JOINT BOND WIRES, ANODE & TEST LEADS (NOT SHOWN) SHALL BE COATED WITH HANDYCAP & THEN ENCASED UNDER PETROLATUM TAPE COATING.

4. PRIMER AND MASTIC FILLER SHALL PROVIDE SMOOTH TRANSITION AT ALL EDGES AND STEP-DOWNS AND FILL ALL VOIDS.

5. PETROLATUM TAPE COATING SHALL COMPLETELY ENCASE BARE METALLIC FITTING & EXTEND A MIN. 4" ONTO PLASTIC PIPE SURFACE.

6. FOUR-LAYER SYSTEM WITH PROTECTIVE WRAP FOR BURIED CONDITIONS AND THREE-LAYER SYSTEM FOR ABOVE-GRADE APPLICATIONS.

7. CORROSION PROTECTION IS SHOWN FOR FLEXIBLE COUPLING JOINT TYPE. PROTECTION OF OTHER BARE OR COPPER METALLIC FITTING TYPES SIMILAR.

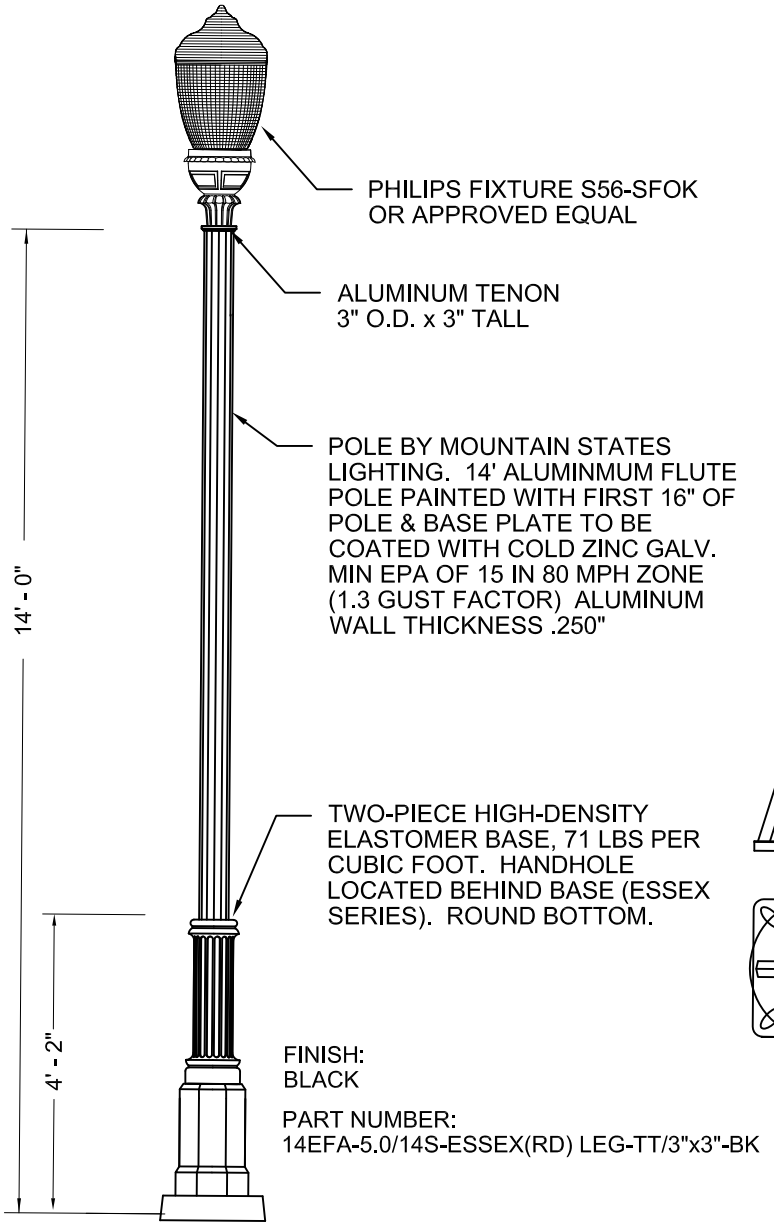
NOT TO SCALE

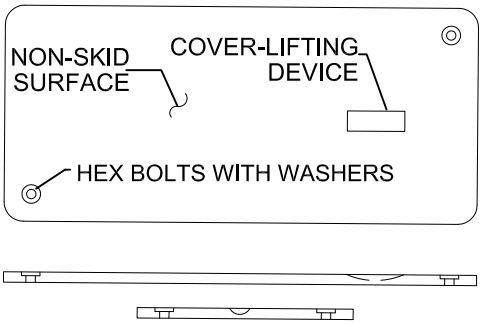
PETROLATUM TAPE COATING FOR BARE METALLIC COUPLINGS & FITTINGS DETAIL

DWG. NO. 13967

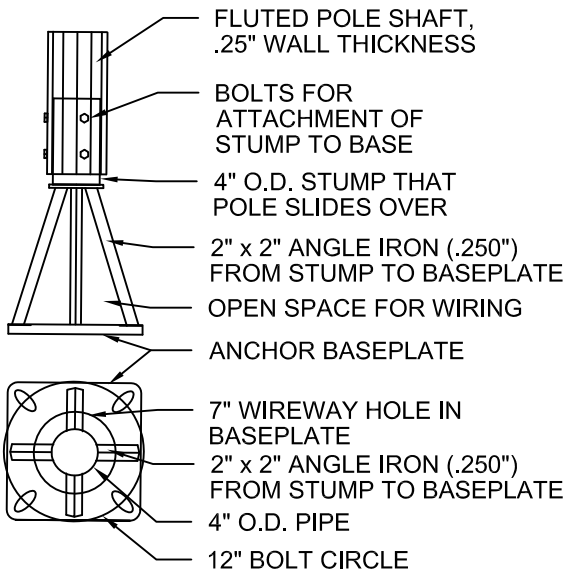
CITY of SHERIDAN

NOVEMBER 2015





PULL BOX
COVER DETAIL



ANCHOR PLATE DETAIL

LIGHT POLE DETAIL

NOTES:

1. SEE CONTRACT DOCUMENTS FOR COMPLETE ROADWAY LIGHTING SPECIFICATIONS AND DETAILS, INCLUDING POSSIBLE REVISIONS TO THIS STANDARD DETAIL.

NOT TO SCALE

DECORATIVE LIGHTING DETAILS

DWG. NO. 26010-1

CITY of SHERIDAN

NOVEMBER 2015