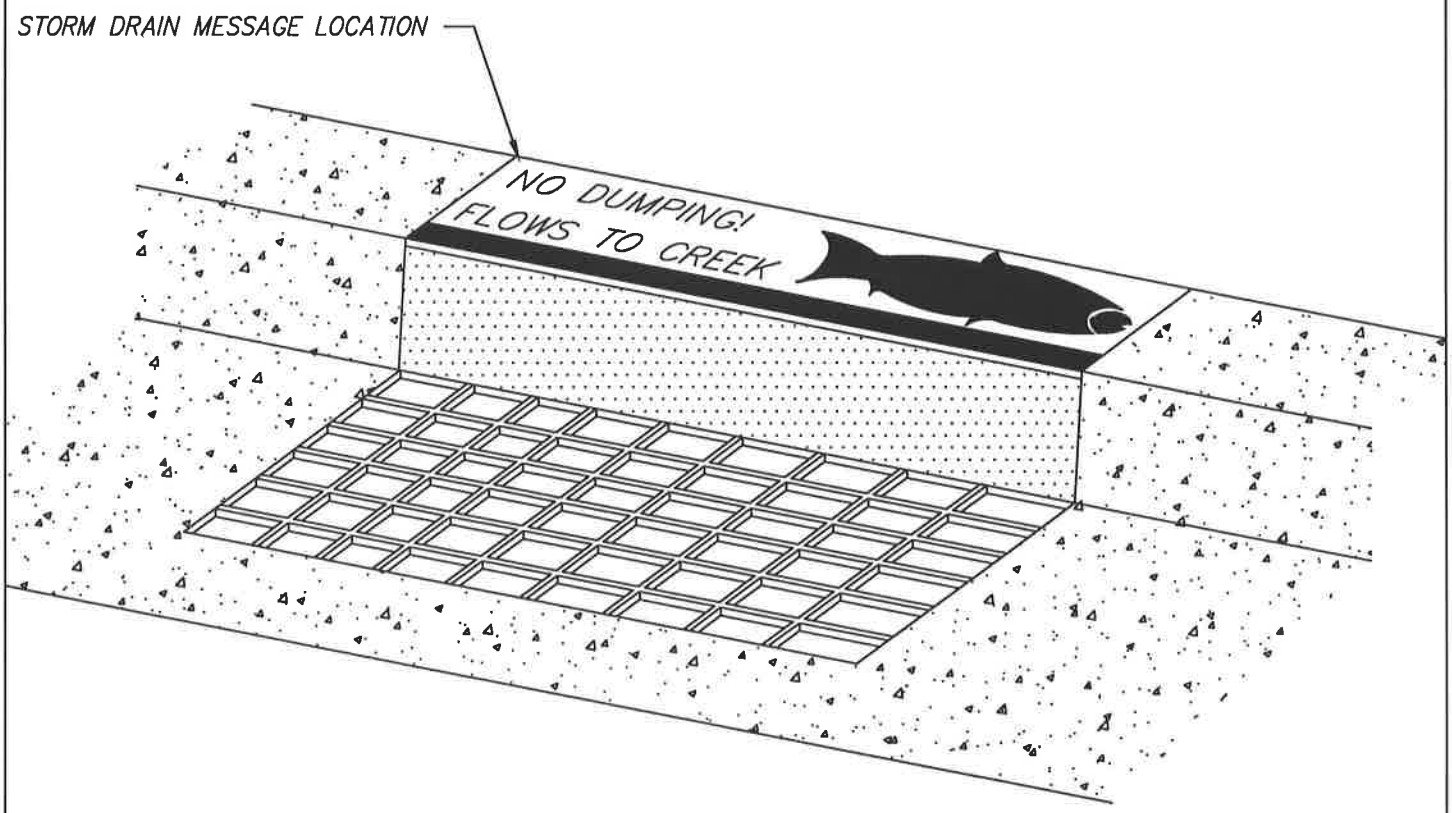
A PUBLIC NOTICE SHALL BE PLACED ADJACENT TO ALL DRAIN INLETS IN ACCORDANCE WITH THE DETAIL BELOW.



APPROVED MESSAGES

NO DUMPING

KEEP MY WATER CLEAN

NO DUMPING

I LIVE DOWN STREAM

NO DUMPING!
DRAINS TO RIVER

GUIDELINES

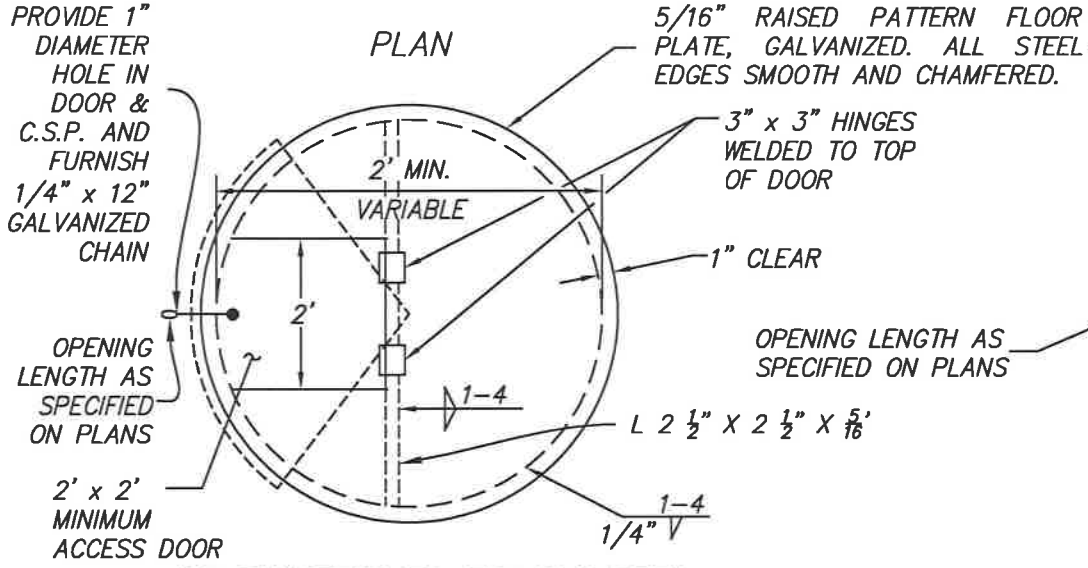
1. MESSAGE AND SYMBOL SHALL BE PERMANENTLY PLACED TO PROVIDE A CLEAR, LEGIBLE IMAGE WITH THE USE OF BOMACRON OR ANOTHER METHOD APPROVED BY THE CITY OF FOLSOM PRIOR TO THE CONSTRUCTION OF THE DRAIN INLET.
2. LETTERS SHALL BE A MINIMUM OF 1 1/2" IN HEIGHT. OUTSIDE DIMENSION OF PUBLIC NOTICE SHALL NOT EXCEED 12" X 33".
3. COLORS SHALL BE BLACK OR BLUE LETTERING AND GRAPHIC WITH GREY BACKGROUND.
4. MESSAGE SHALL NOT BE PAINTED.
5. FOR AREA DRAIN INLETS, NOTICE WILL BE PLACED ADJACENT AND PARALLEL TO THE LONG AXIS OF THE DRAIN.
6. IF THE MESSAGE IS STAMPED IN CONCRETE, THE DEPTH SHALL BE APPROXIMATELY 0.25".

CITY OF FOLSOM

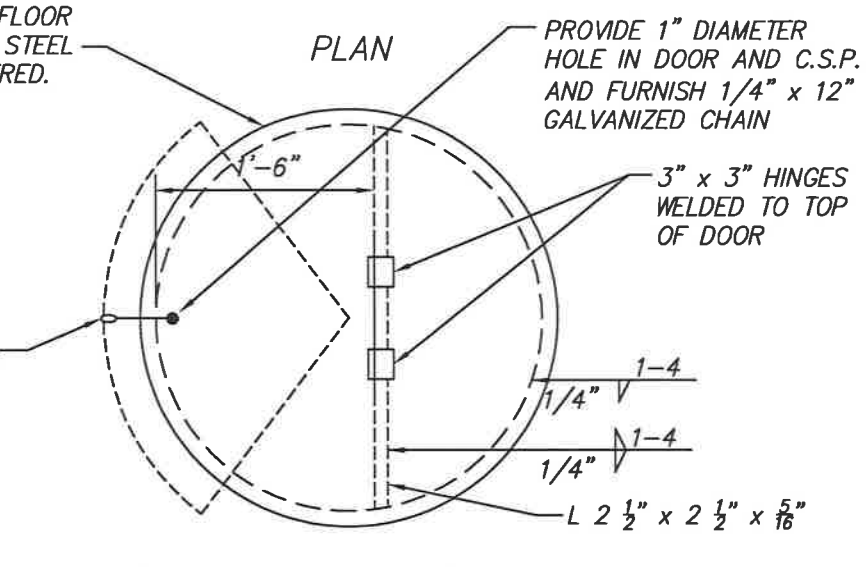
NO DUMPING
PUBLIC NOTICE

SCALE: NONE
DATE: FEBRUARY 2020

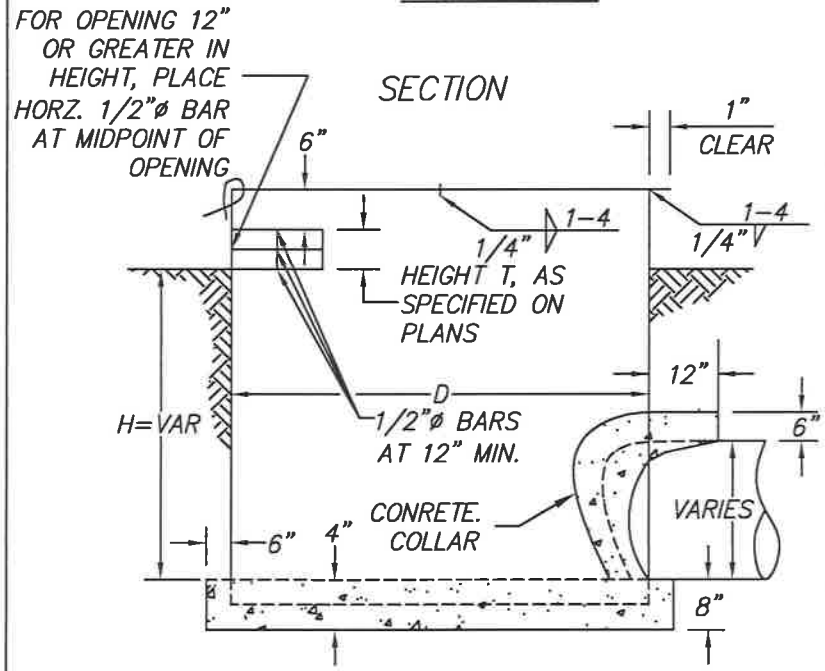
SD-01



42" DIAMETER TO 72" DIAMETER C.S.P. INLET



24" DIAMETER TO 36" DIAMETER C.S.P. INLET



42" DIAMETER TO 72" DIAMETER C.S.P. INLET

NOTES:

1. LOCATIONS, HEIGHTS, & LENGTHS OF OPENINGS SHALL BE AS SHOWN ON THE PLANS.
2. AREA OF OPENING SHALL NOT BE LESS THAN AREA OF OUTFALL PIPE.
3. OUTFALL PIPE TO BE CUT FLUSH WITH INSIDE OF RISER.
4. NOT TO BE USED AS A JUNCTION STRUCTURE.
5. DIAMETER OF RISER PIPE SHALL BE AT LEAST ONE SIZE LARGER THAN THE OUTFALL PIPE.
6. TO BE USED ONLY WITH THE SPECIFIC APPROVAL OF THE DIRECTOR.

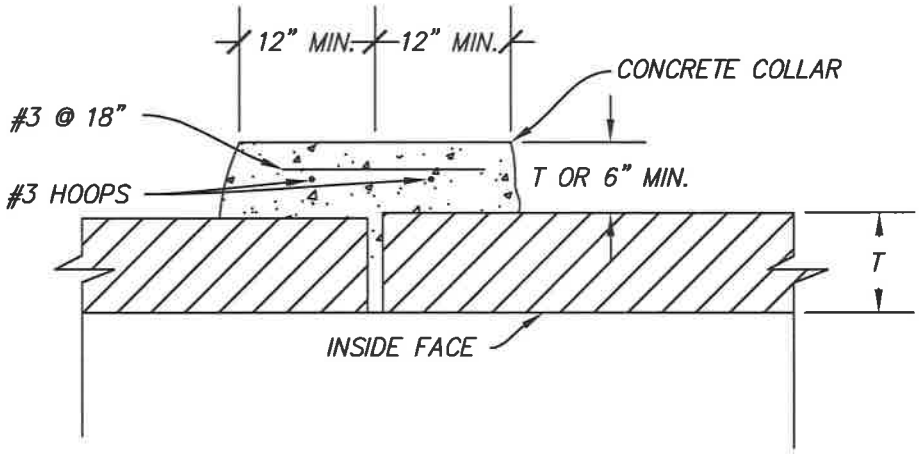
RISER DIAMETER, D	H, MAX	HEIGHT T, MAX.	GAGES (MINIMUM)
24"	4'	8"	0.079"
30"	4'	8"	0.079"
36"	5'	8"	0.109"
42"	8'	12"	0.109"
48"	8'	12"	0.109"
54"	10'	18"	0.109"
60"	10'	18"	0.109"
72"	10'	18"	0.109"

CITY OF FOLSOM

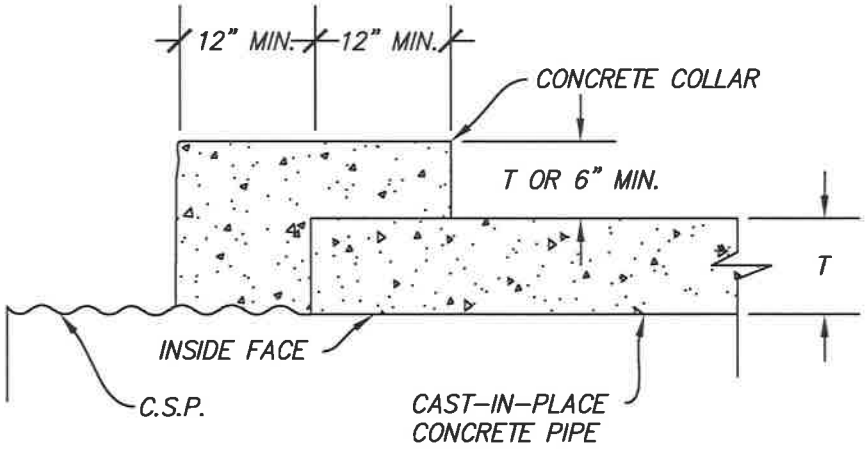
CORRUGATED STEEL PIPE DRAINAGE INLET TYPE 1

SCALE: NONE
DATE: FEBRUARY 2020

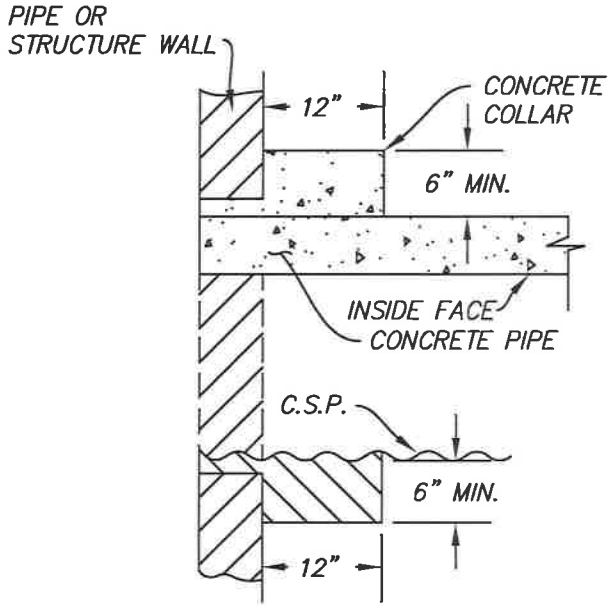
SD-02



CONCRETE PIPE TO CONCRETE PIPE
WITHOUT STANDARD JOINT



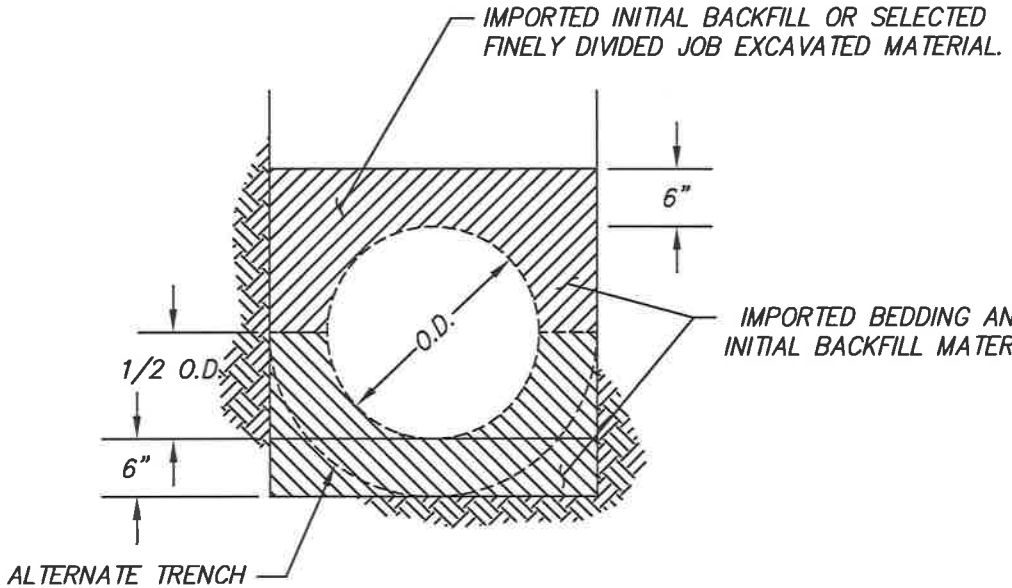
CAST-IN-PLACE OR PRECAST CONCRETE
PIPE TO C.S.P.



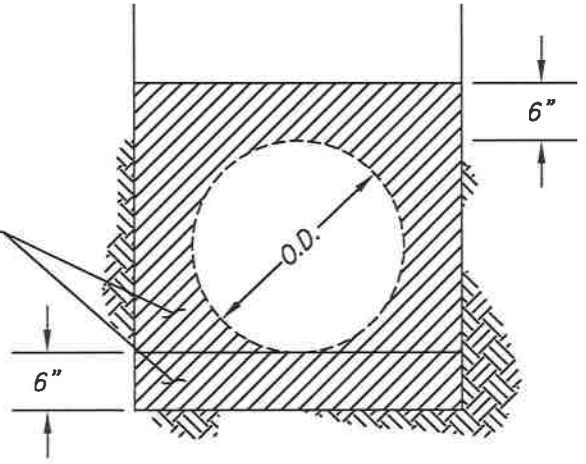
CONCRETE PIPE OR C.S.P.
INTO EXISTING STRUCTURE STRUCTURE

CITY OF FOLSOM	
PIPE CONNECTIONS	
SCALE: NONE **DATE: FEBRUARY 2020**	SD-03

PIPES 24" OR GREATER IN DIAMETER



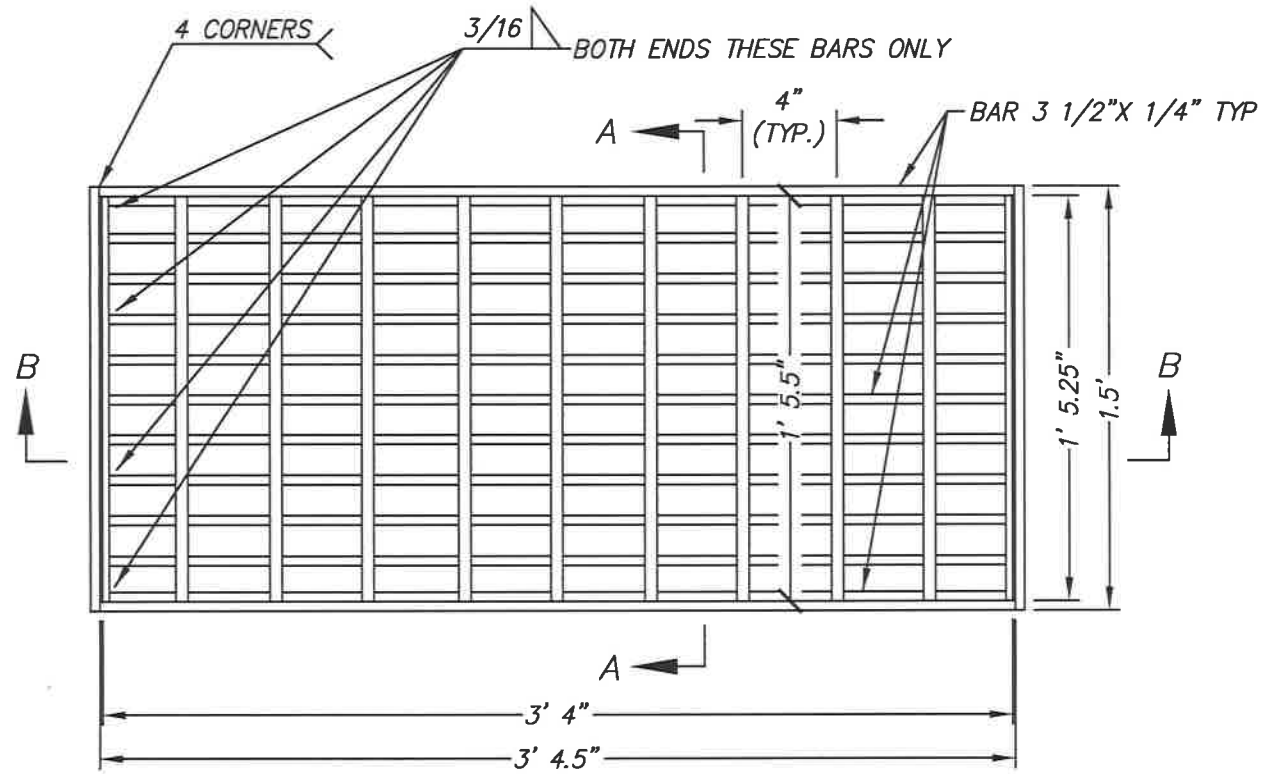
PIPES LESS THAN 24" IN DIAMETER

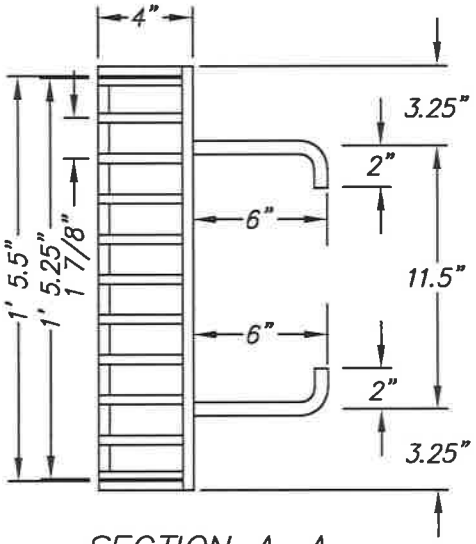


NOTES:

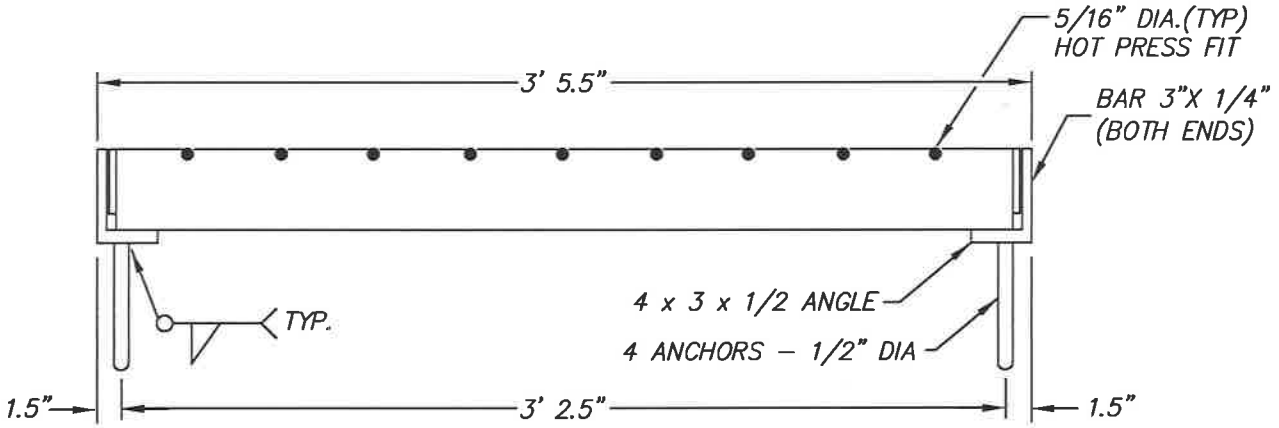
1. INITIAL BACKFILL MATERIAL SHALL BE THOROUGHLY COMPACTED AROUND PIPE BY SHOVEL SLICING OR TAMPING PER THE STANDARD SPECIFICATIONS TRENCH BEDDING AND BACKFILL SECTION.
2. TRENCH WIDTH SHALL CONFORM TO STANDARD SPECIFICATIONS TRENCH WIDTH SECTION.
3. BEDDING AND INITIAL BACKFILL MATERIAL SHALL CONFORM TO THE STANDARD SPECIFICATIONS TRENCH BEDDING AND BACKFILL SECTION.
4. BEDDING AND INITIAL BACKFILL FOR PVC & RCP PIPE SHALL BE CRUSHED ROCK. SAND AND GRAVEL WILL NOT BE PERMITTED.

CITY OF FOLSOM	
STORM DRAIN PIPE BEDDING	
SCALE: NONE **DATE: FEBRUARY 2020**	SD-04





SECTION A–A



SECTION B–B

NOTE:

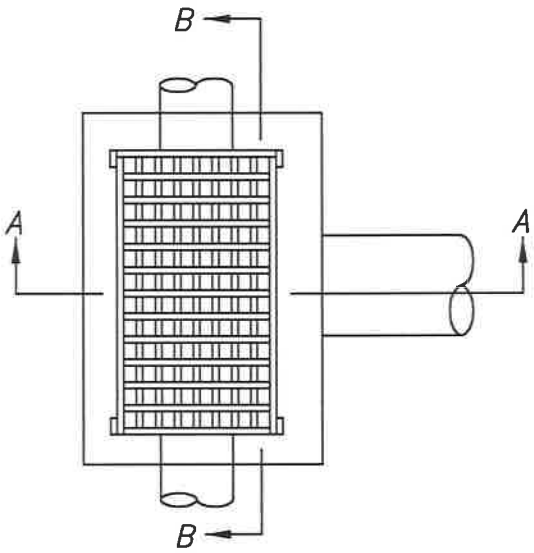
1. AT THE CONTRACTOR'S OPTION, END SPACING OF 5/16" CROSS RODS MAY BE 2".
2. INTERIOR SPACING SHALL REMAIN AT 4".
3. GRATE MANUFACTURER SHALL BE APPROVED BY THE CITY ENGINEER.

CITY OF FOLSOM

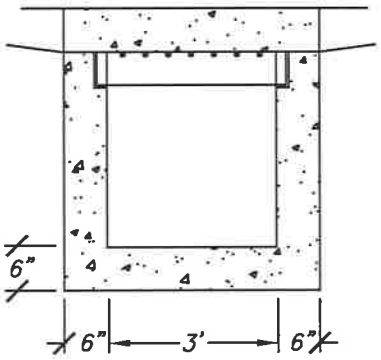
DROP INLET FRAME AND GRATE FOR TYPE A, B, & C

SCALE: NONE
DATE: FEBRUARY 2020

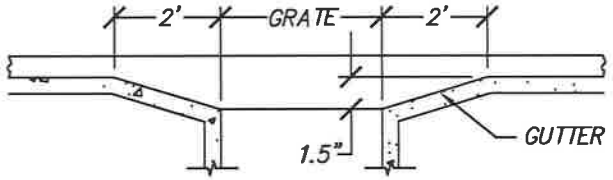
SD–05



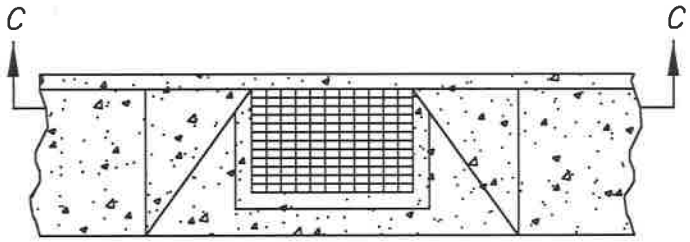
SECTION A–A



SECTION B–B

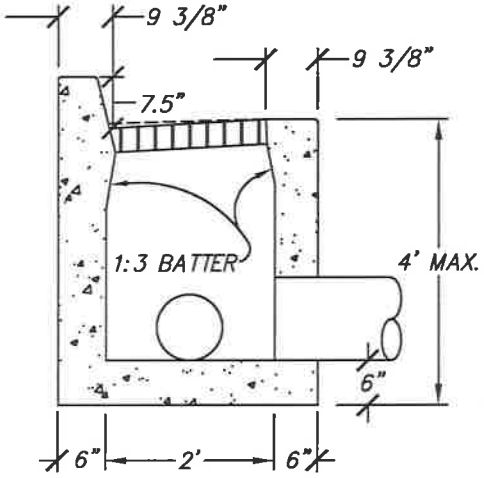


SECTION C–C

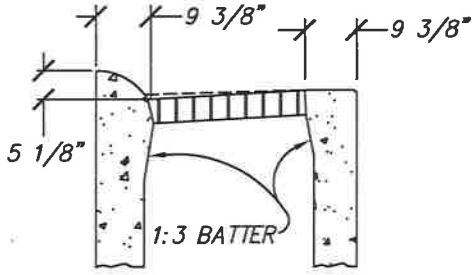


PLAN

STANDARD DEPRESSION



TYPE 2 CURB



TYPE 1 OR 3 CURB

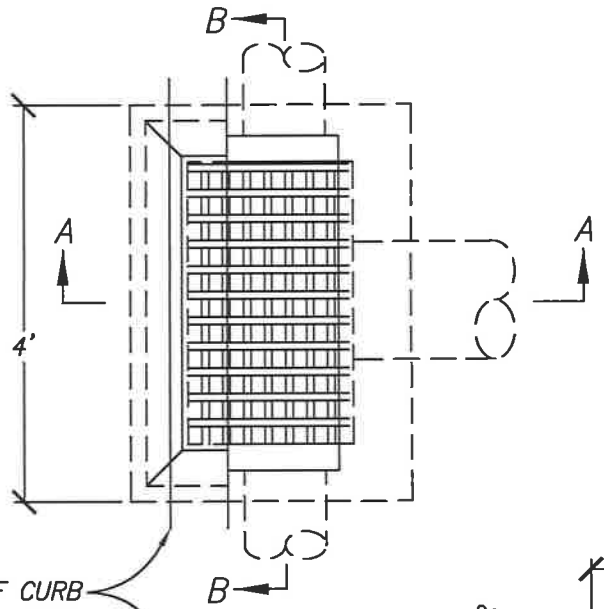
NOTES:

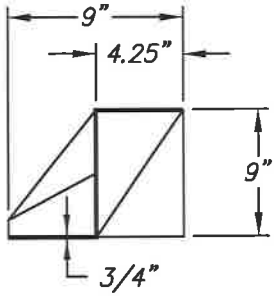
1. DEPRESSION IS STANDARD FOR ALL INLETS.
2. FRAME & GRATE SHALL CONFORM TO DRAWING SD–05.
3. BOTTOM OF INLET SHALL BE PLACED PRIOR TO OR AT THE SAME TIME AS SIDE WALLS.

CITY OF FOLSOM	
DROP INLET TYPE A	
SCALE: NONE **DATE: FEBRUARY 2020**	SD–06

NOTES:

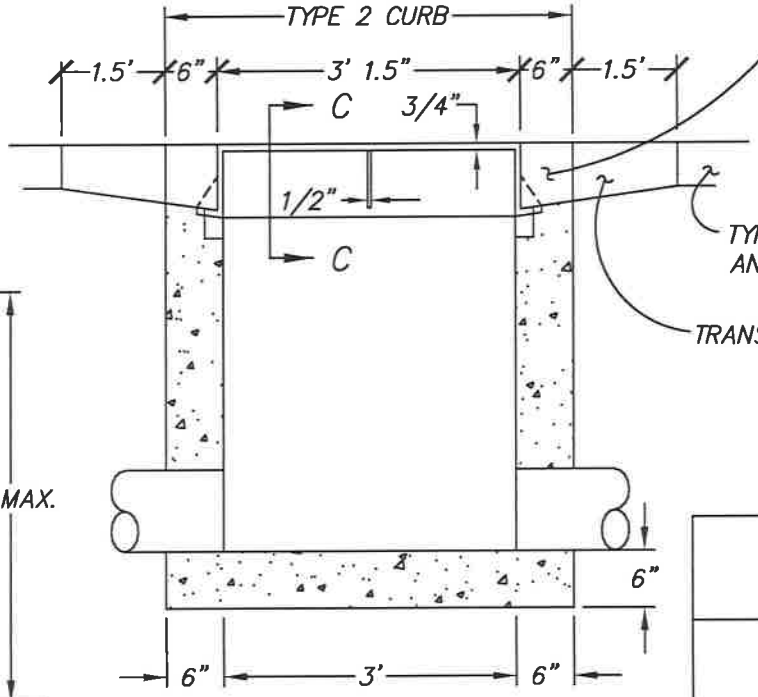
1. BOTTOM OF INLET SHALL BE PLACED PRIOR TO OR AT THE SAME TIME AS SIDE WALLS.
2. DEPRESSION IS STANDARD FOR ALL INLETS.
3. FRAME & GRATE SHALL CONFORM TO DRAWING SD-06.
4. OPEN BACK HOOD SHALL BE CAST IRON.



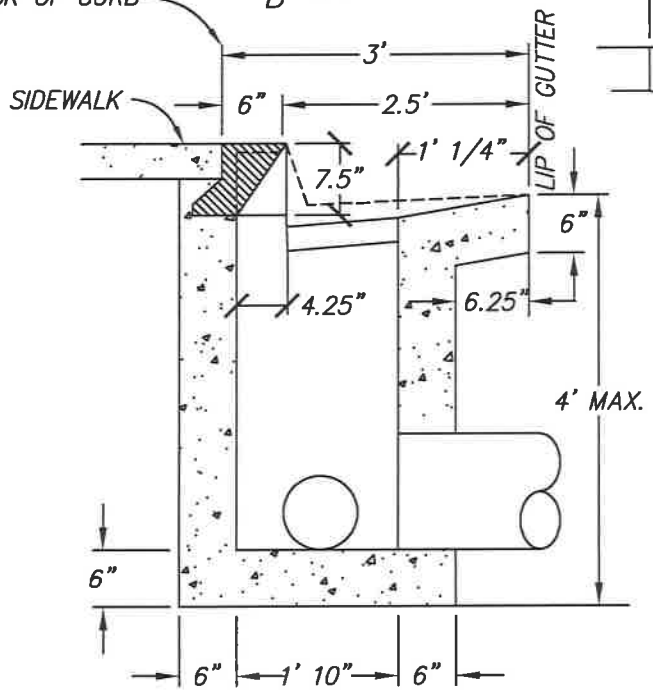


SECTION C-C
OPEN-BACK HEAD

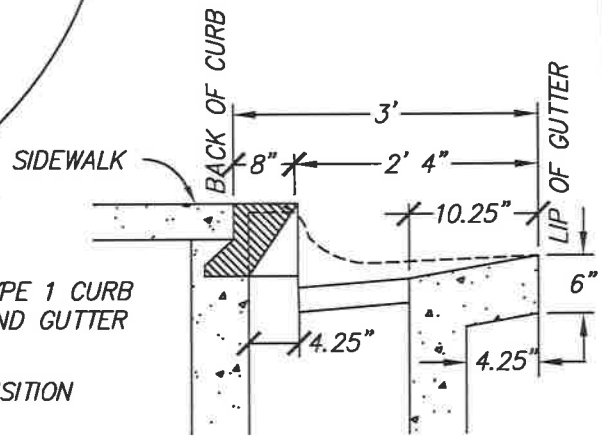
CONSTRUCT 6" OF VERTICAL CURB BEFORE BEGINNING TRANSITION OF TYPE 1 OR 3 CURB & GUTTER.



SECTION B-B



SECTION A-A
TYPE 2 CURB AND GUTTER



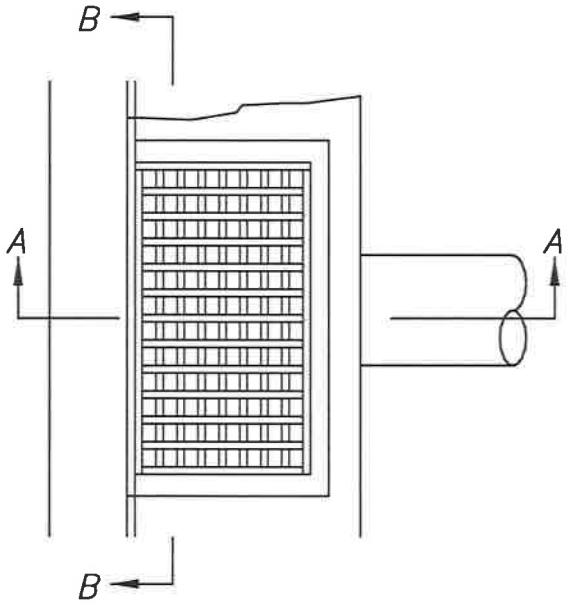
SECTION A-A
TYPE 1 OR 3 CURB AND GUTTER

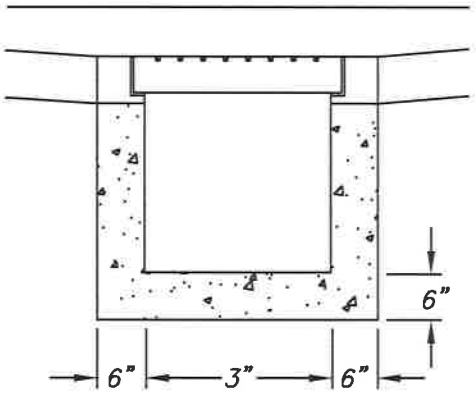
CITY OF FOLSOM

DROP INLET TYPE B

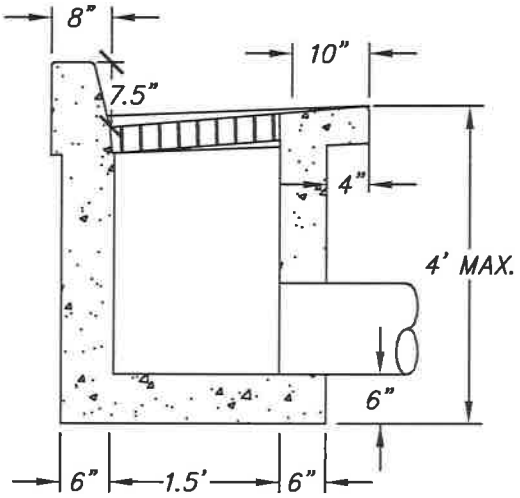
SCALE: NONE
DATE: FEBRUARY 2020

SD-07

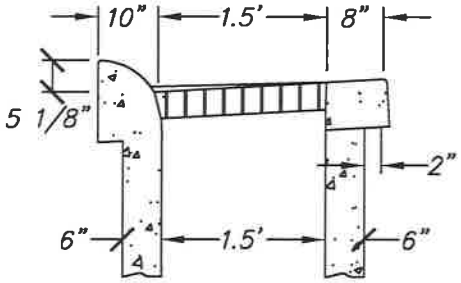




SECTION B–B



TYPE 2
CURB AND GUTTER



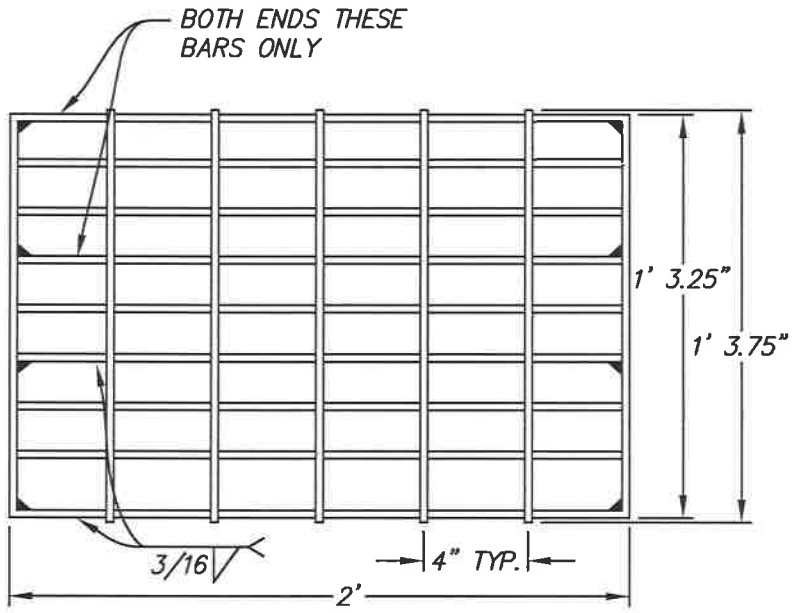
TYPE 1 OR 3
CURB AND GUTTER

SECTION A–A

NOTES:

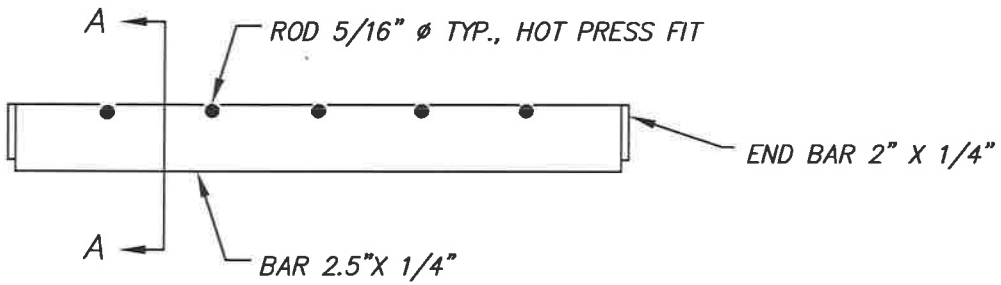
1. DEPRESSION IS STANDARD FOR ALL INLETS.
2. SEE FRAME AND GRATE DETAIL STANDARD DRAWING SD–8.
3. BOTTOM OF INLET SHALL BE PLACED PRIOR TO OR AT THE SAME TIME AS SIDE WALLS.

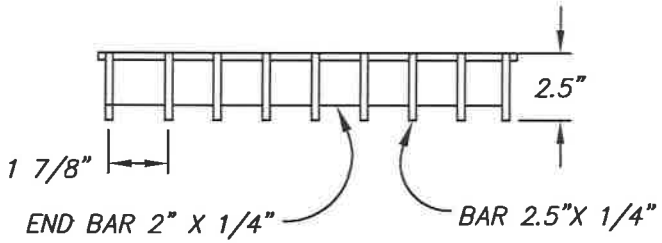
CITY OF FOLSOM	
DROP INLET TYPE C	
SCALE: NONE **DATE: FEBRUARY 2020**	SD–08



NOTES:

1. INSTALLED GRATE SHALL BE PERMANENTLY SECURED TO FRAME WITH 12" LENGTH OF GALVANIZED CHAIN.
2. AT THE CONTRACTOR'S OPTION, END SPACING OF 5/16" CROSS RODS MAY BE 2". INTERIOR SPACING SHALL REMAIN AT 4".



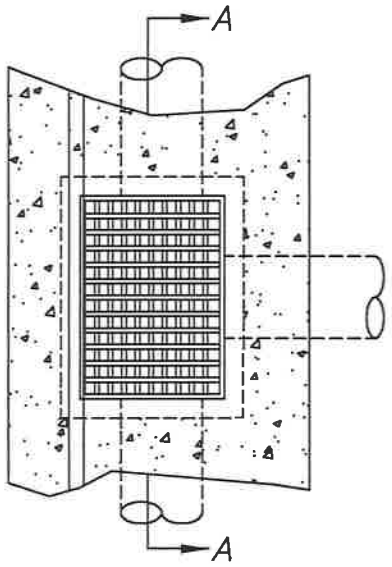


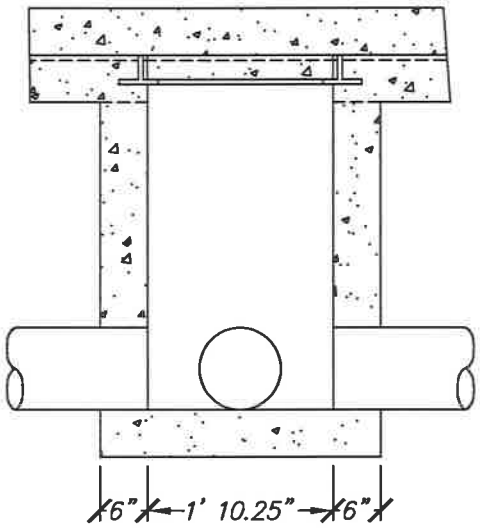
CITY OF FOLSOM

DROP INLET FRAME AND GRATE FOR TYPE D & E

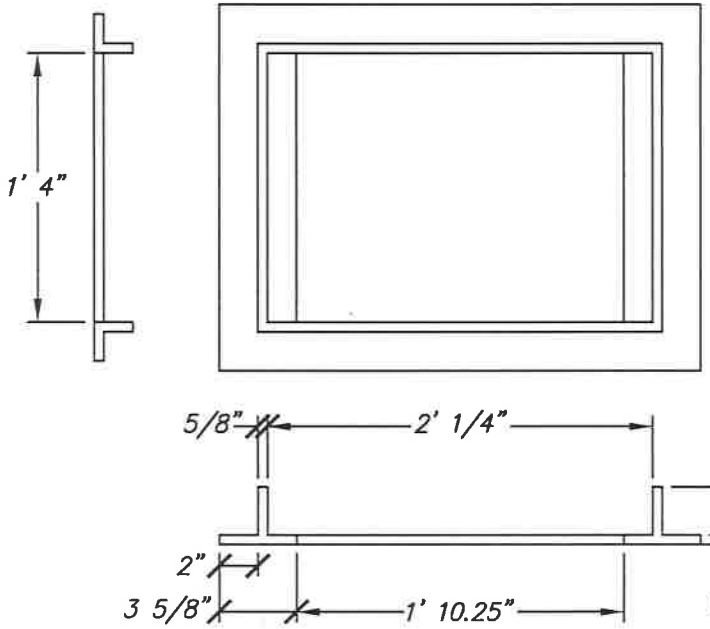
SCALE: NONE
DATE: FEBRUARY 2020

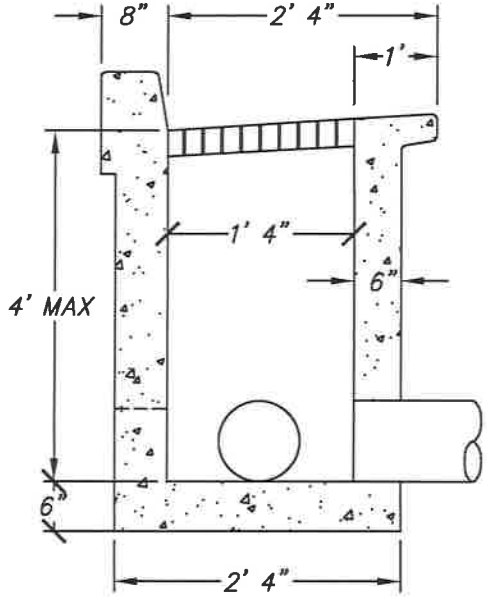
SD-09



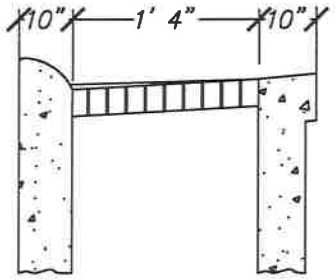


SECTION A–A





TYPE 2 VERTICAL CURB

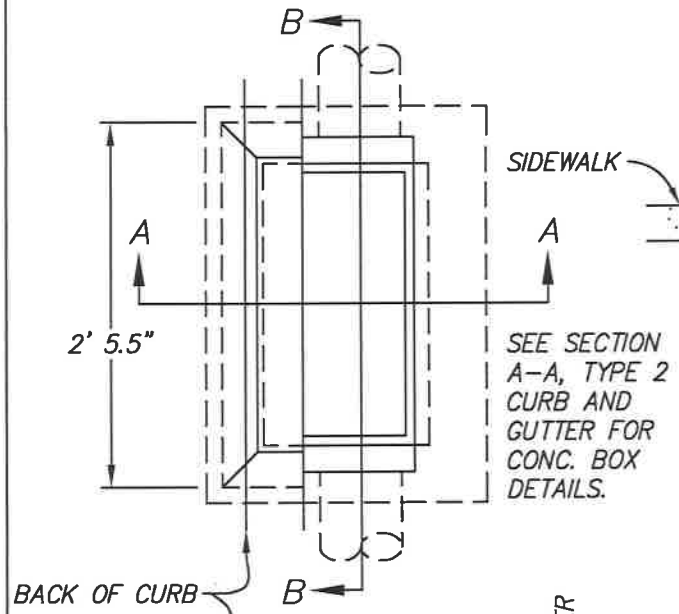


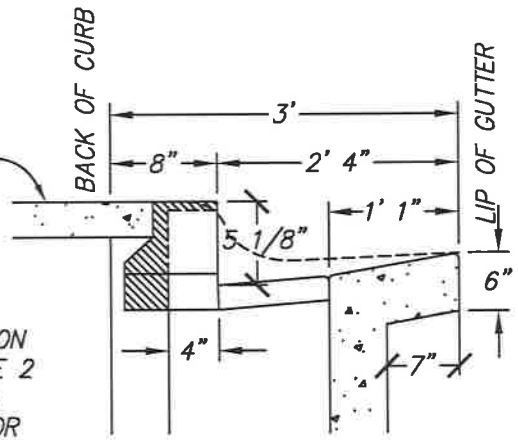
TYPE 1 OR 1A CURB

NOTES:

1. DEPRESSION IS STANARD FOR ALL INLETS
2. SEE STANDARD DETAIL SD–09 FOR FRAME & GRATE.
3. 12" LENGTH OF 1/4" GALVANIZED CHAIN TO BE PERMANENTLY AFFIXED TO THE GRATE AND ONE CORNER OF THE INLET FRAME ADJACENT TO THE CURB.
4. BOTTOM OF INLET SHALL BE PLACED PRIOR TO OR AT THE SAME TIME AS SIDE WALLS.

CITY OF FOLSOM	
DROP INLET TYPE D	
SCALE: NONE **DATE: FEBRUARY 2020**	SD–10

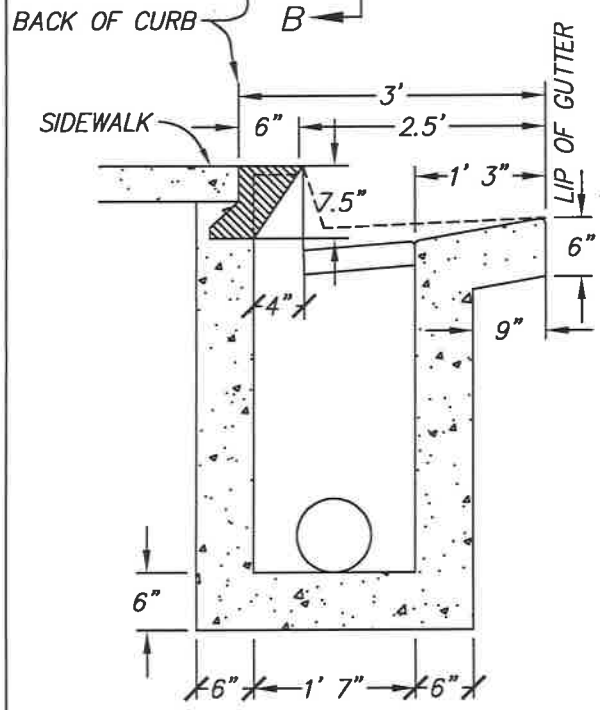




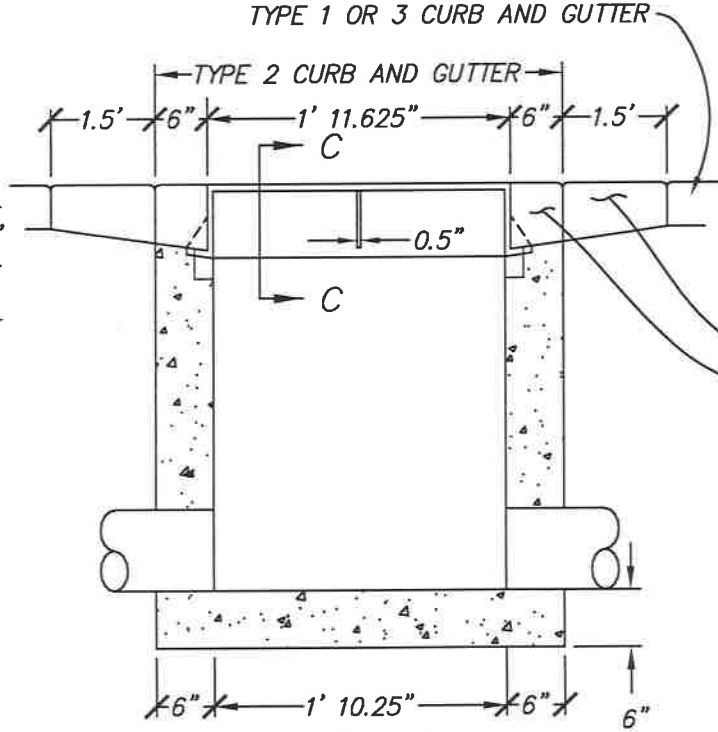
SECTION A–A
TYPE 1 OR 3
CURB AND GUTTER

NOTES:

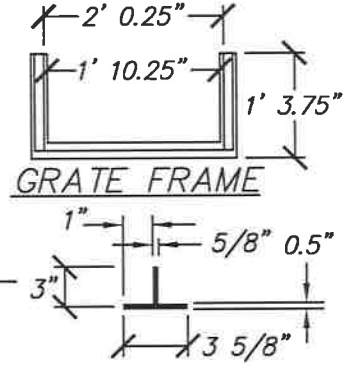
1. DEPRESSION IS STANDARD FOR ALL INLETS.
2. BOTTOM OF INLET SHALL BE PLACED PRIOR TO OR AT THE SAME TIME AS THE SIDEWALLS.
3. SEE STANDARD DETAIL SD–09 FOR FRAME AND GRATE.
4. THIS STRUCTURE IS TO SERVE ONLY TO PICK UP GUTTER DRAINAGE OR AS A JUNCTION BOX FOR SMALL PIPES IN A LONGITUDINAL DIRECTION ONLY.
5. 12" LENGTH OF 1/4" GALVANIZED CHAIN TO BE PERMANENTLY AFFIXED TO THE GRATE AND ONE CORNER OF THE INLET FRAME ADJACENT TO THE CURB.
6. OPEN–BACK HOOD AND GRATE FRAME SHALL BE CAST IRON.



SECTION A–A
TYPE 2 CURB AND GUTTER

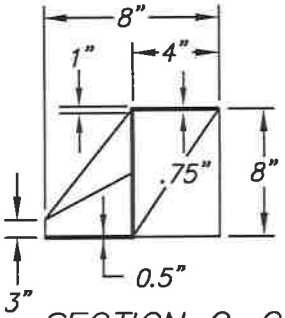


SECTION B–B



GRATE FRAME

SECTION D–D



SECTION C–C
OPEN–BACK HOOD

TRANSITION

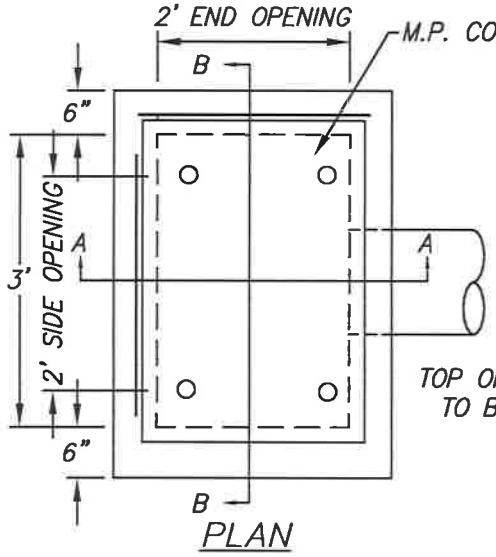
CONSTRUCT 6" VERTICAL CURB BEFORE BEGINNING TRANSITION ON TYPE 1 OR 3 CURB AND GUTTER.

CITY OF FOLSOM

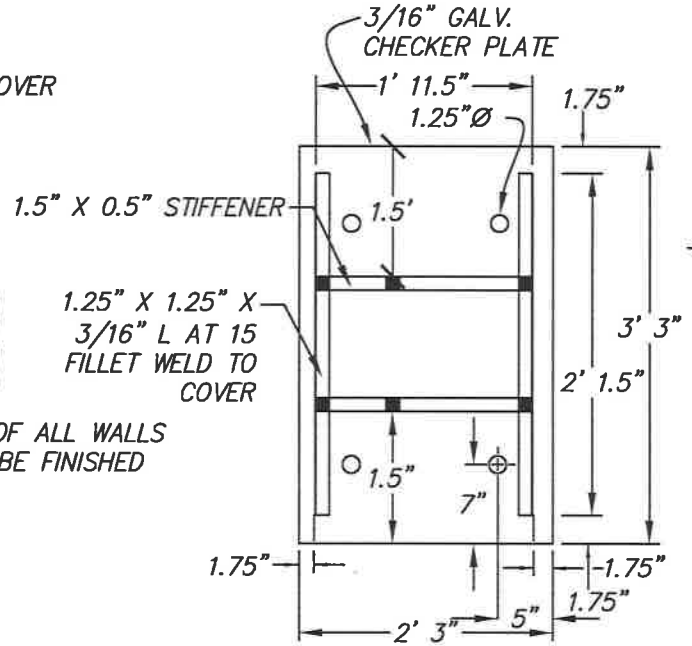
DROP INLET TYPE E

SCALE: NONE
DATE: FEBRUARY 2020

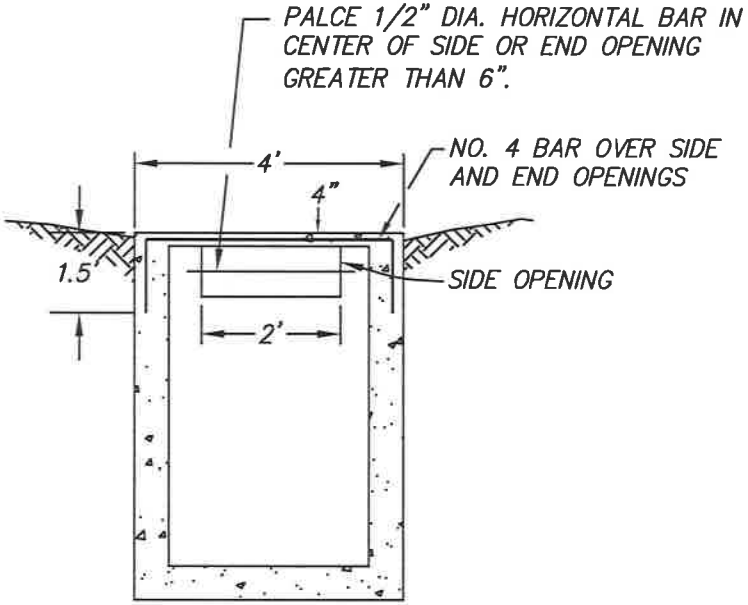
SD–11

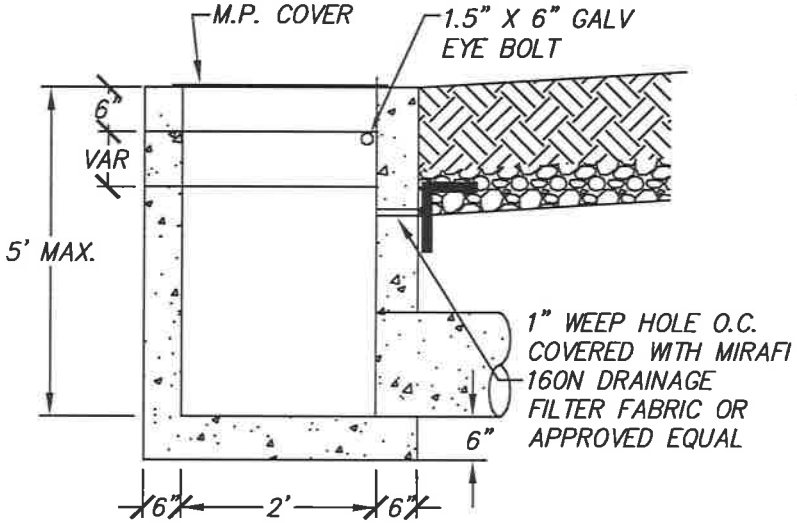


PLAN



METAL COVER
(UNDERSIDE)





SECTION A–A

NOTES:

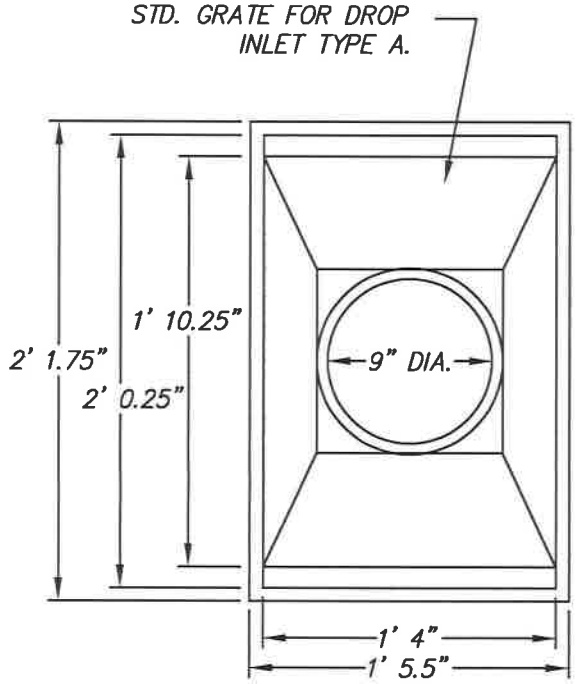
1. TOP OF WALLS TO BE FINISHED TO A FLAT PLANE TO PROVIDE EVEN BEARING FOR PLATE COVER.
2. PROVIDE 1/4" x 18" GALV. CHAIN WELD TO COVER AND EYE BOLT.
3. PROVIDE END OR SIDE OPENINGS AS SHOWN ON PLAN OR CROSS SECTION AND EYE BOLT.
4. METAL PLATE COVER TO BE GALVANIZED.

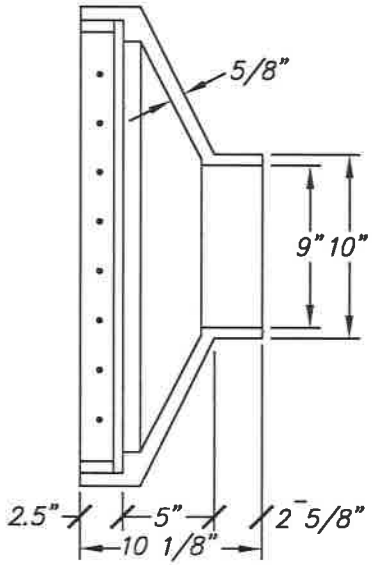
CITY OF FOLSOM

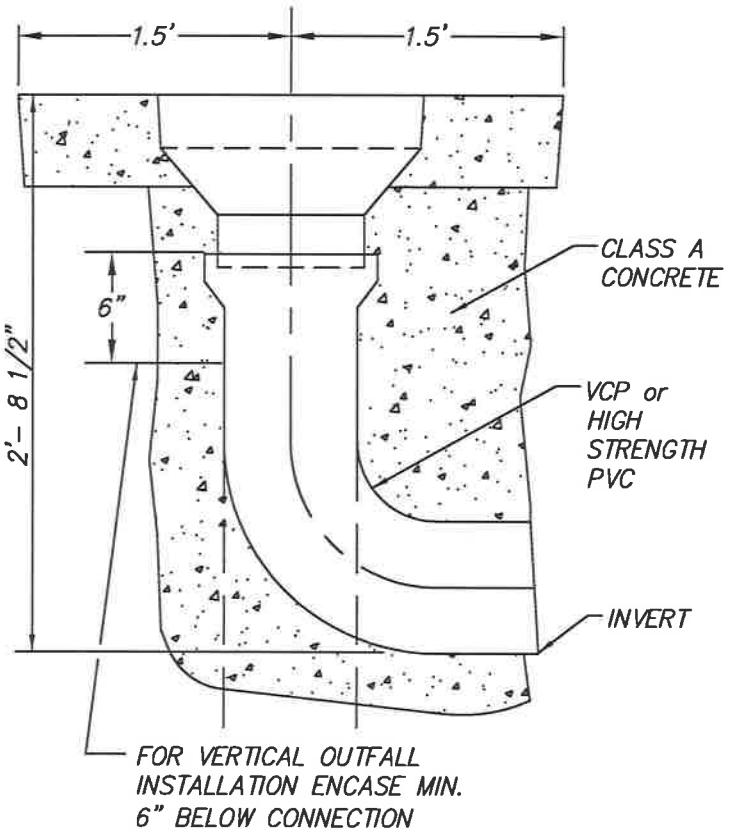
DROP INLET TYPE F

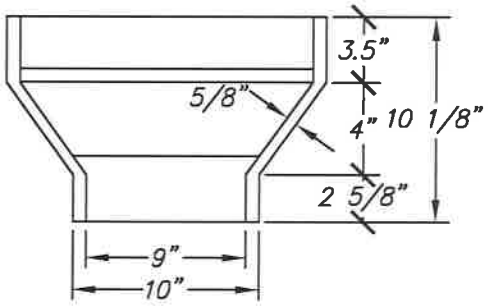
SCALE: NONE
DATE: FEBRUARY 2020

SD–12









NOTE:

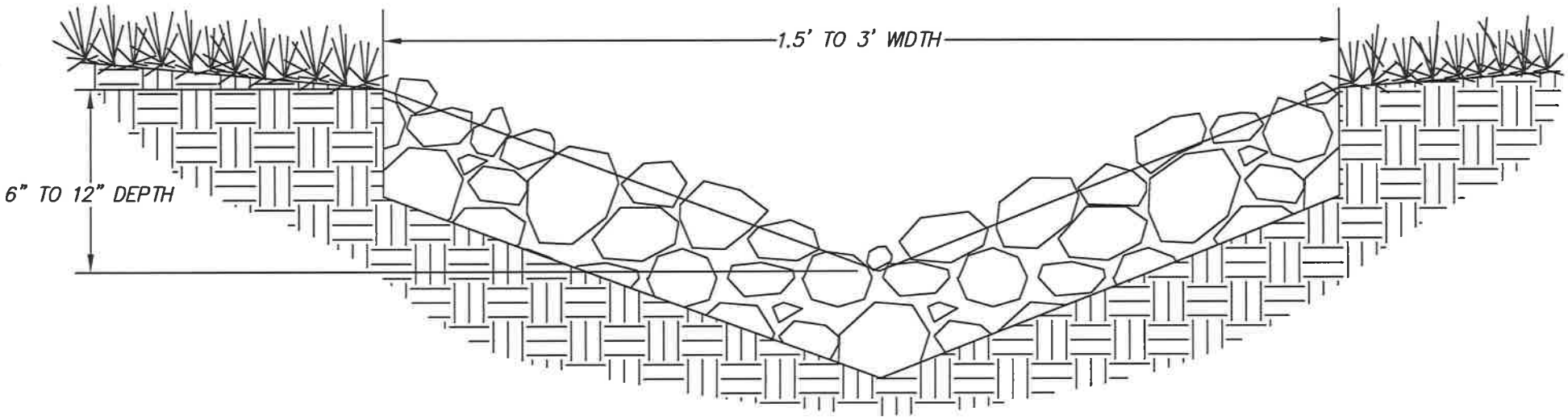
THIS STRUCTURE TO BE USED ONLY TO PICK UP ON SITE DRAINAGE ON PRIVATE PROPERTY UNLESS SPECIFICALLY APPROVED BY THE CITY ENGINEER.

CITY OF FOLSOM

AREA DRAIN

SCALE: NONE
DATE: FEBRUARY 2020

SD–13



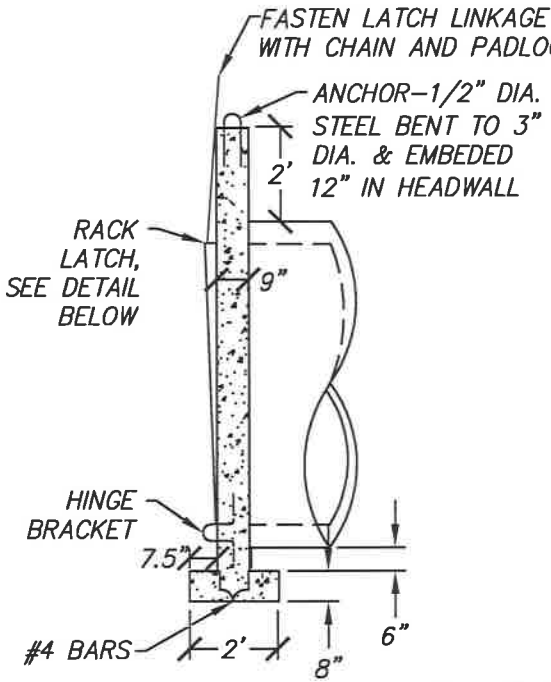
1. SWALES SHALL MAINTAIN A MINIMUM SLOPE OF 1% IN THE DIRECTION OF FLOW..
2. PROVIDE 3"–6" COBBLES OR ANGULAR ROCK WHERE SLOPE EXCEEDS 10%.
3. SWALES IN WHICH THE SLOPE EXCEEDS 10% SHALL BE REQUIRED TO INSTALL A ENERGY DISSIPATION DEVICE PRIOR TO CONVEYING THE STORM WATER RUNOFF INTO THE PUBLIC RIGHT–OF–WAY.
4. SWALES SHALL NOT BE INSTALLED WITHIN THE PUBLIC RIGHT–OF–WAY.

CITY OF FOLSOM	
ROCK LINED DRAINAGE SWALE	
SCALE: NONE **DATE: FEBRUARY 2020**	SD–14

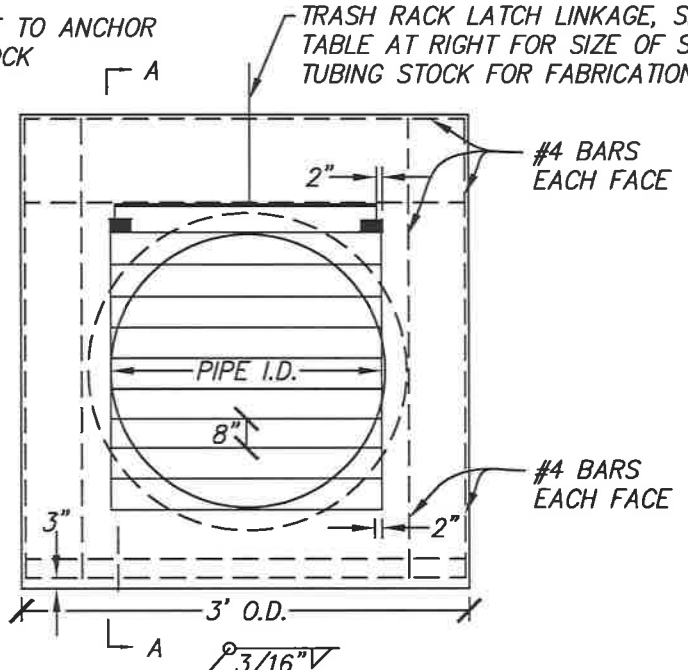
NOTES:

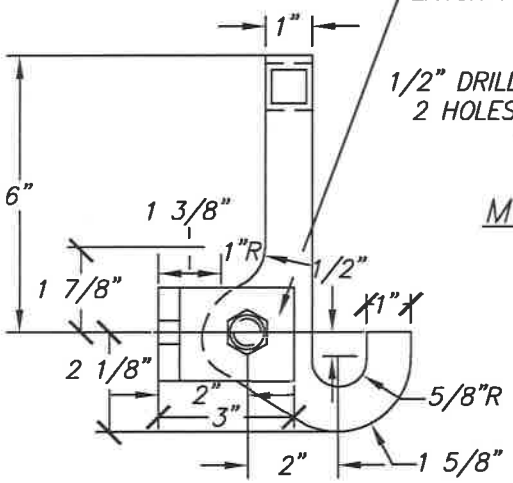
1. ALL REINFORCING STEEL SHALL HAVE 2" EMBEDMENT EXCEPT AS NOTED.
2. ENTIRE RACK TO BE WELDED WITH REINFORCING STEEL OR ROUND BARS OF EQUAL DIA. WITH HORIZONTAL BARS BEING 8" CENTER TO CENTER.
3. USE CLASS "B" CONCRETE.
4. ROOM SHALL BE PROVIDED DOWNSTREAM TO LAY RACK FLAT.
5. FASTEN LATCH BRACKET TO HEADWALL WITH 1/2" X 6" BOLTS WITH HEX NUTS, OR 1/2" EXPANSION BOLTS.
6. WHEN RACK IS IN THE CLOSED POSITION, THE BOTTOM RACK BAR SHALL BE TIGHT AGAINST THE TOP OF THE HINGE BRACKET SO THAT THE RACK CANNOT BE LIFTED OFF THE LATCH.
7. FABRICATE HINGE BRACKET FROM #4 REBAR.
8. FABRICATE LATCH FROM STEEL PLATE, THICKNESS SHOWN IN TABLE.

PIPE SIZE	RACK BAR SIZE	LATCH PLATE THICKNESS	LATCH LINKAGE SIZE
18"–27"	#4	1/4"	1", .095" THICK
30"–36"	#6	3/8"	1", .095" THICK
42"–54"	#7	1/2"	1", .133" THICK
60"–84"	#8	1/2"	1", .133" THICK

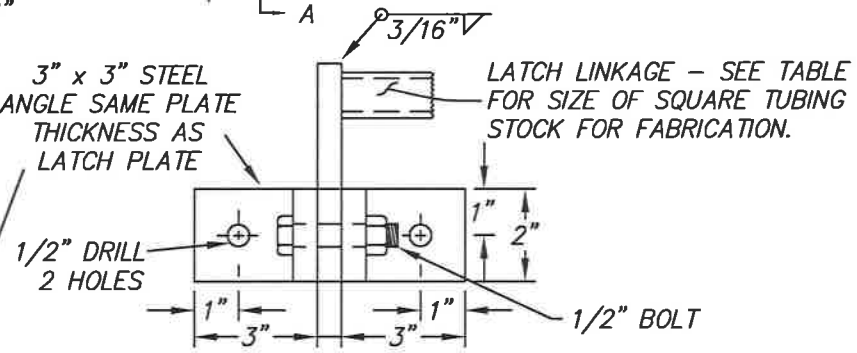


SECTION A–A





RACK LATCH DETAIL



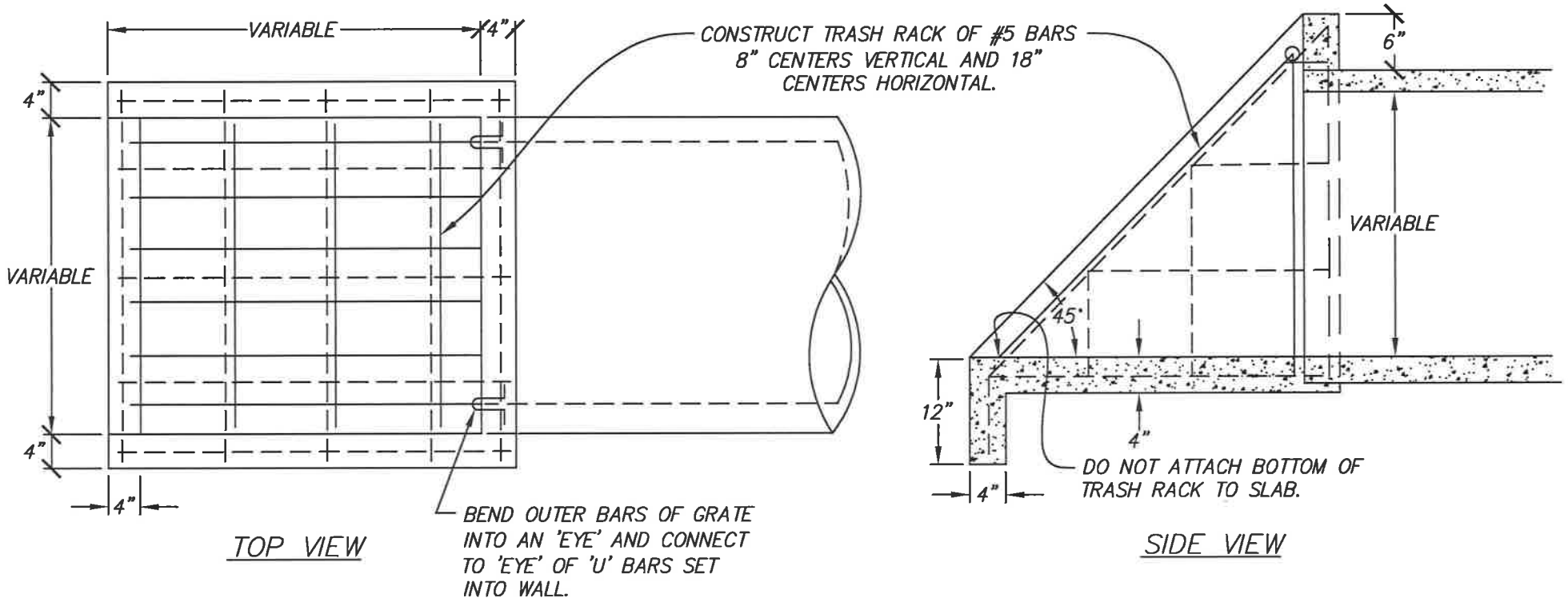
MOUNTING BRACKET DETAIL

CITY OF FOLSOM

PIPE OUTFALL ACCESS CONTROL RACK 18" AND LARGER

SCALE: NONE
DATE: FEBRUARY 2020

SD–15



NOTE:

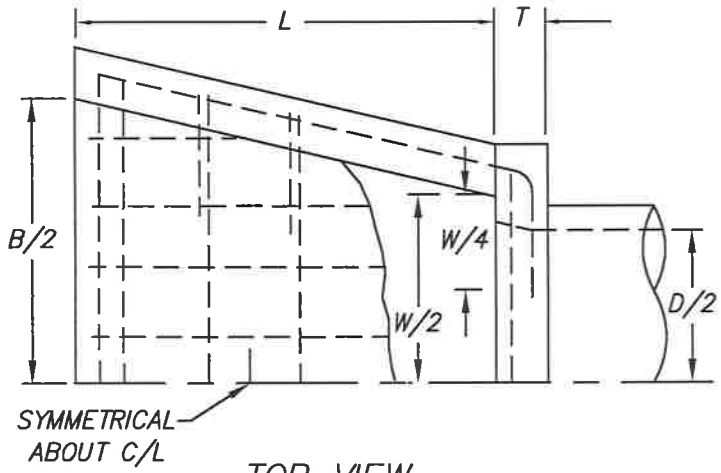
1. ALL REINFORCING TO BE #4 @ 12" O.C.
2. USE CLASS 'B' CONCRETE.

CITY OF FOLSOM

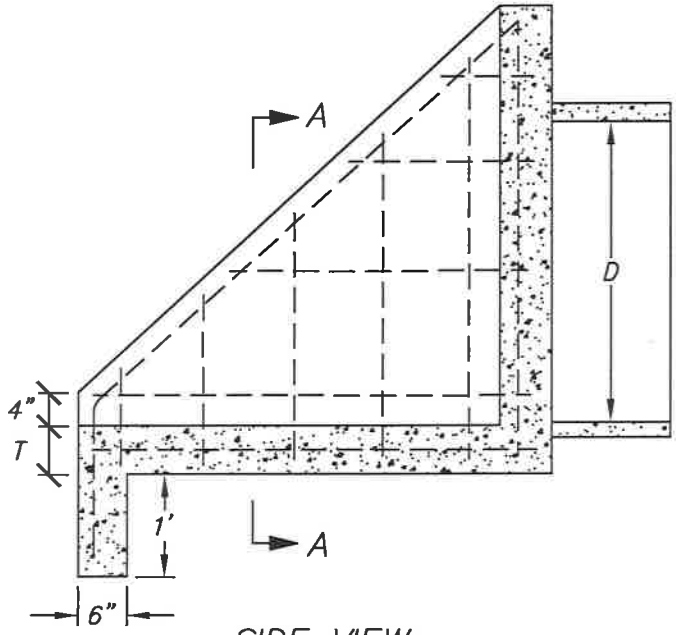
PIPE INLET AND TRASH RACK 30" PIPE AND SMALLER

SCALE: NONE
DATE: FEBRUARY 2020

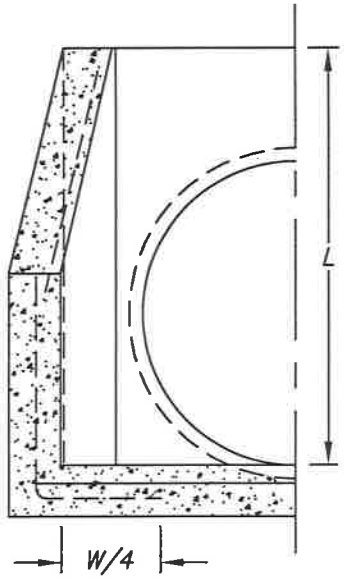
SD-16



TOP VIEW



SIDE VIEW



HALF SECTION A–A

DIMENSIONS & REINFORCING

D	W	B	L	T	ALL REINFORCING
33"	3'– 5"	5'– 3"	4'– 0"	6"	# 5 @ 12"
36"	3'– 8"	5'– 8"	4'– 2"	6"	# 5 @ 12"
42"	4'– 4"	6'– 4"	4'– 8"	6"	# 5 @ 12"
48"	4'–10"	7'– 2"	5'– 2"	8"	# 6 @ 12"
54"	5'– 4"	8'– 0"	6'– 0"	8"	# 6 @ 12"
60"	6'– 0"	8'–10"	6'– 6"	8"	# 6 @ 12"

NOTES:

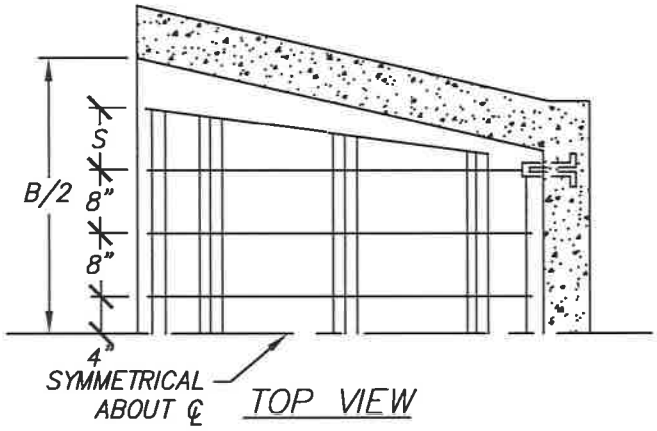
1. "B" MAY BE REDUCED IF REQUIRED BY CHANNEL DIMENSIONS.
2. REINFORCING BAR SPACING SHOWN IS MAXIMUM SPACING.
3. ALL CONCRETE SHALL BE CLASS B.

CITY OF FOLSOM

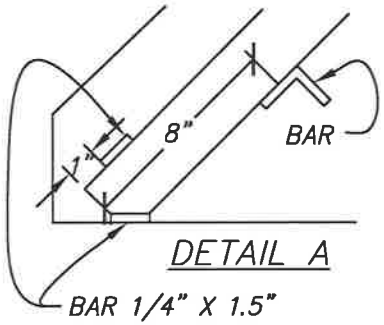
PIPE INLET STRUCTURE
33" AND LARGER

SCALE: NONE
DATE: FEBRUARY 2020

SD–17



TOP VIEW



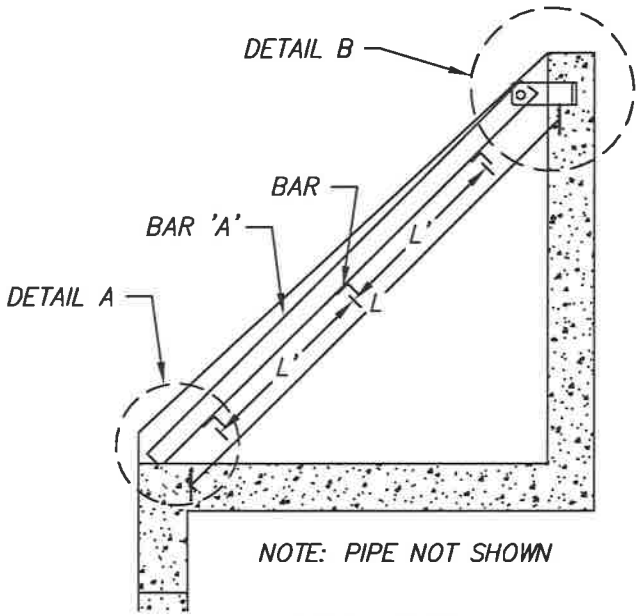
DETAIL A

TRASH RACK DIMENSIONS

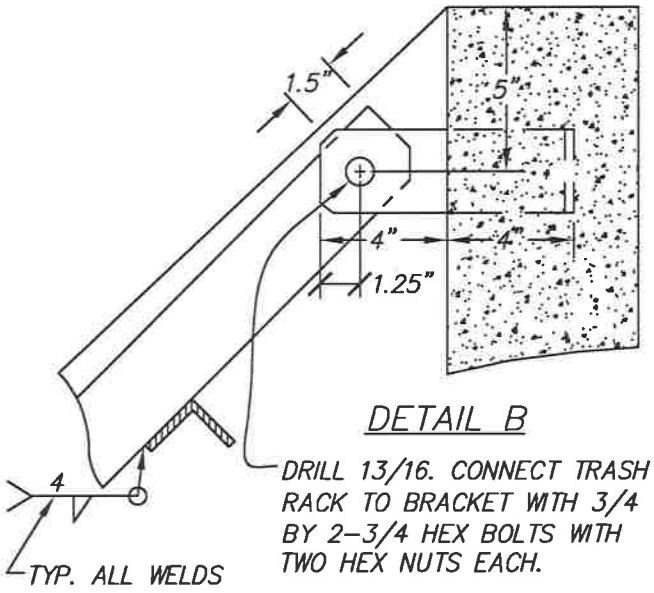
DIA.	NUMBER & SIZE		L	L'	S	H
	BAR A	L BAR				
33"	#8–3/8 X 2.5	3–2 X 2 X 1/4	5'–1"	1'–10"	8"	3"–8"
36"	"	"	5'–4"	1'–11"	8"	3'–10"
42"	#9–3/8 X 2.5	"	5'–11"	2'–3"	9"	4'–4"
48"	"	4–2 X 2 X 1/4	6'–7"	1'–9"	10"	4'–10"
54"	#10–3/8 X 3	4–3 X 3 X 1/4	7'–9"	2'–1.5"	10.5"	5'–8"
60"	#11–3/8 X 3.5	"	8'–5"	2'–4"	11"	6'–2"

NOTES

1. THIS TRASH RACK TO BE USED WITH PIPE INLET STRUCTURES.
2. MATERIAL TO CONFORM TO ASTM DESIGNATION A–36.
3. 'S' MAY VARY WITH 'B'.
4. ALL FILLET WELDS TO BE 3/16".
5. 2 – HINGES REQUIRED FOR 33", 36", & 42" PIPES. 3 – HINGES REQUIRED FOR 48", 54" & 60" PIPES.



SIDE VIEW



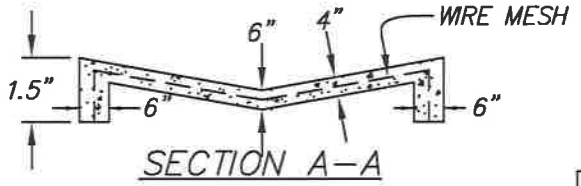
DETAIL B

CITY OF FOLSOM

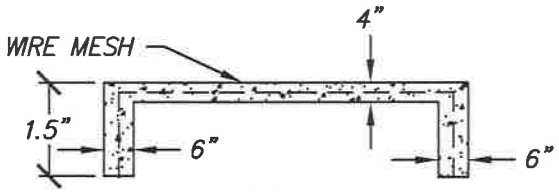
PIPE INLET AND TRASH RACK 33" AND LARGER

SCALE: NONE
DATE: FEBRUARY 2020

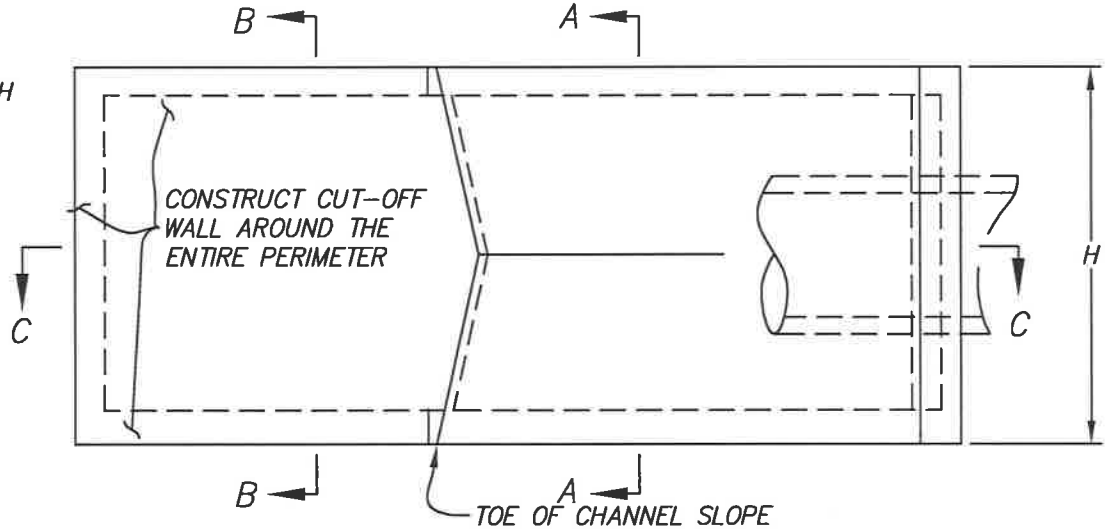
SD–18



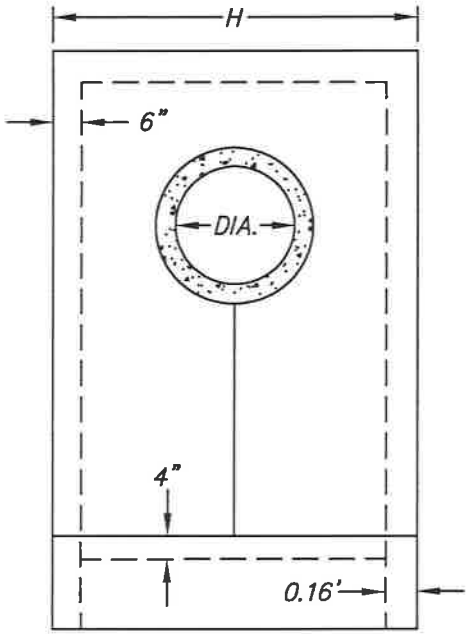
SECTION A–A



SECTION B–B



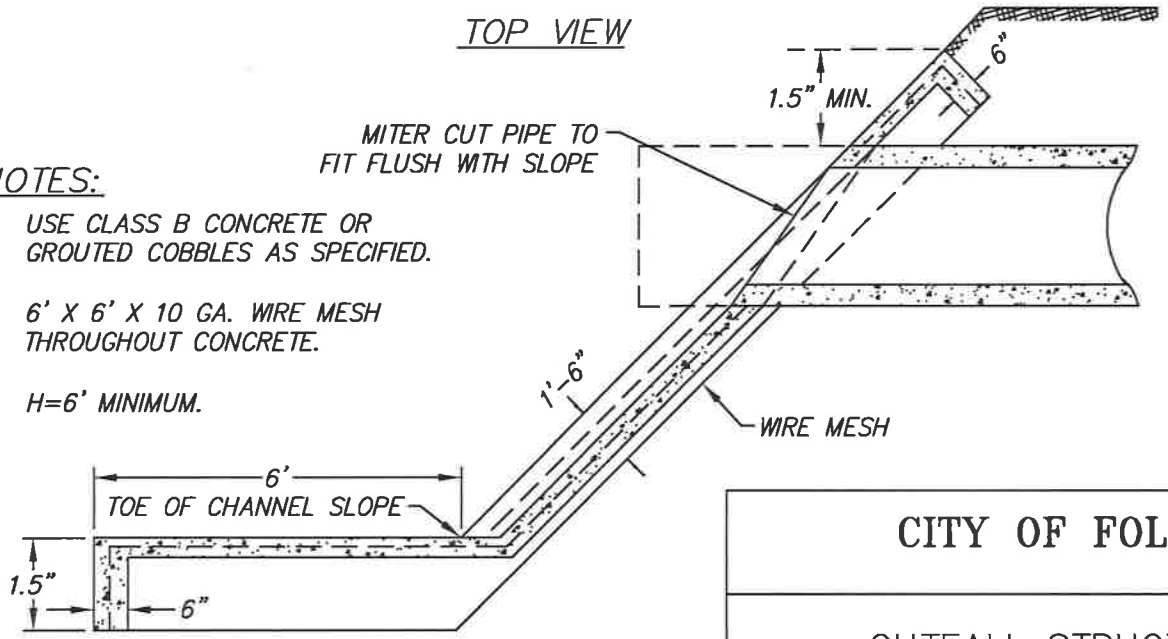
TOP VIEW



FRONT VIEW

NOTES:

1. USE CLASS B CONCRETE OR GROUTED COBBLES AS SPECIFIED.
2. 6' X 6' X 10 GA. WIRE MESH THROUGHOUT CONCRETE.
3. H=6' MINIMUM.



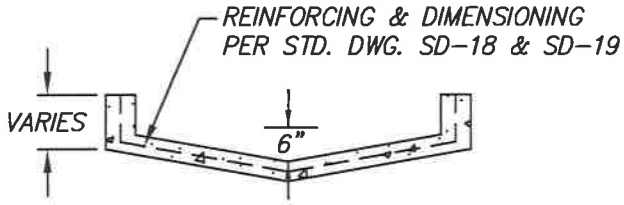
SECTION C–C

CITY OF FOLSOM

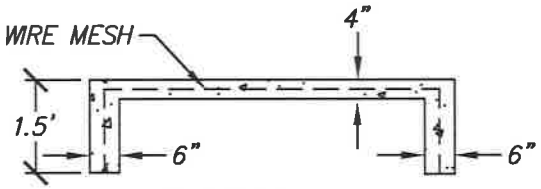
OUTFALL STRUCTURE
PIPE LESS THAN 18 INCHES

SCALE: NONE
DATE: FEBRUARY 2020

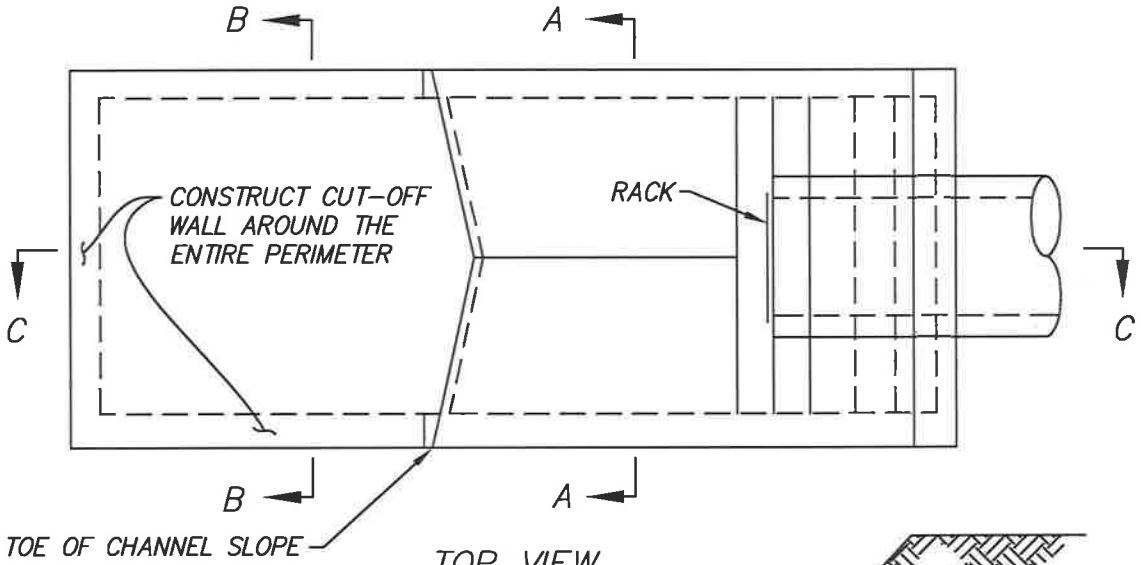
SD–19



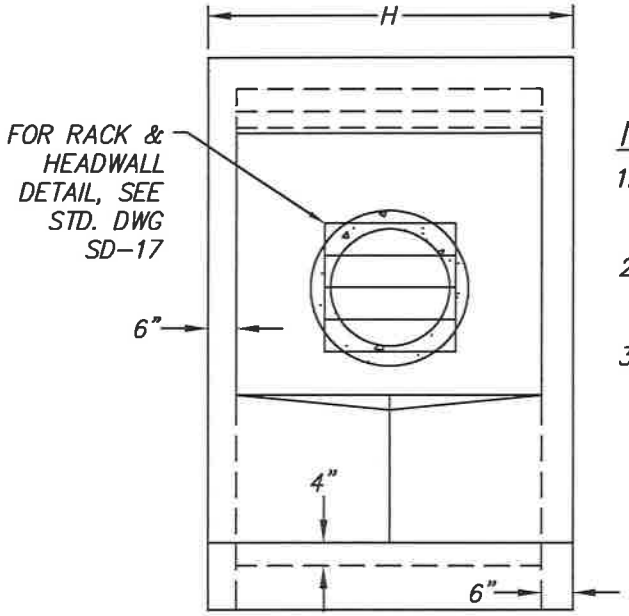
SECTION A-A



SECTION B-B



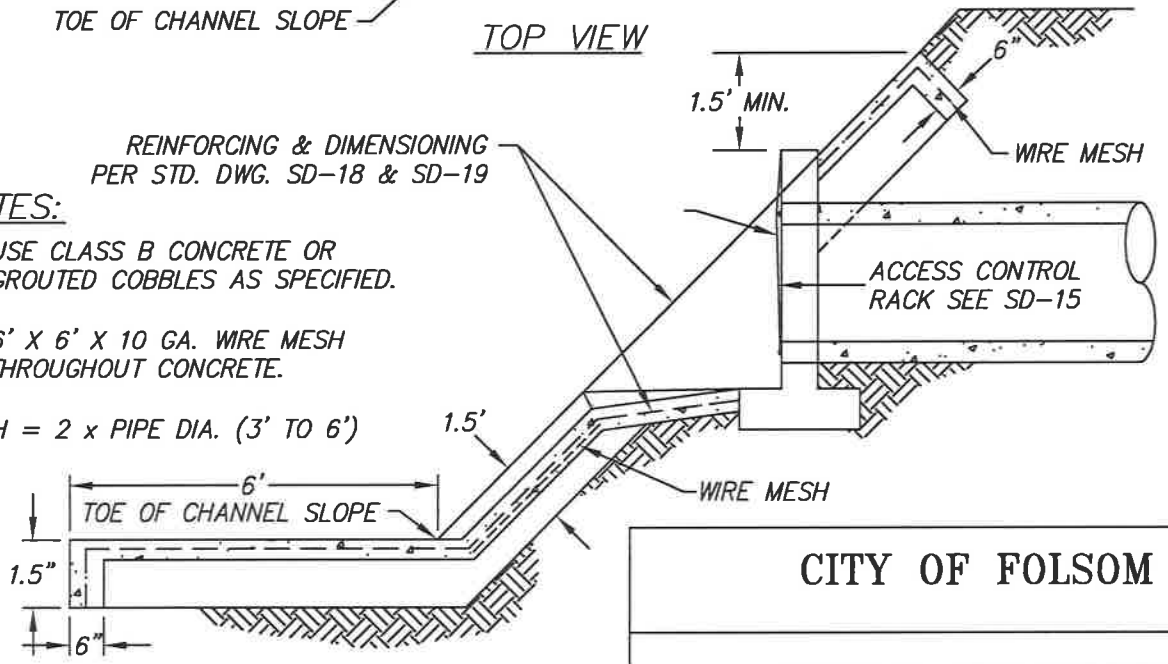
TOP VIEW



FRONT VIEW

NOTES:

1. USE CLASS B CONCRETE OR GROUTED COBBLES AS SPECIFIED.
2. 6' X 6' X 10 GA. WIRE MESH THROUGHOUT CONCRETE.
3. H = 2 x PIPE DIA. (3' TO 6')



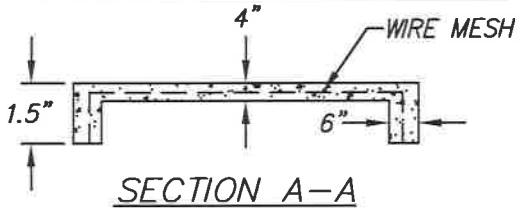
SECTION C-C

CITY OF FOLSOM

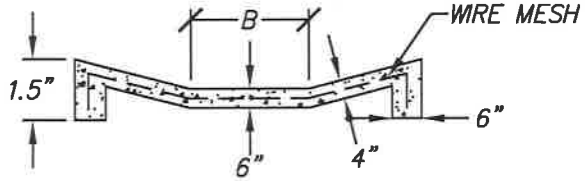
OUTFALL STRUCTURE
PIPE 18" AND LARGER

SCALE: NONE
DATE: FEBRUARY 2020

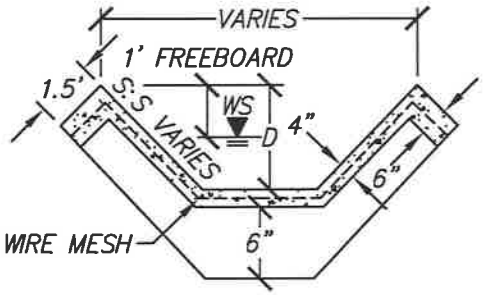
SD-20



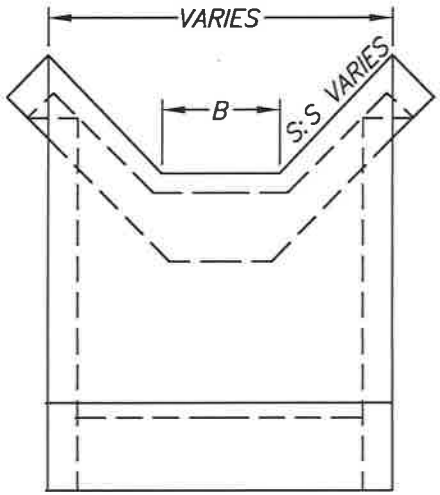
SECTION A–A



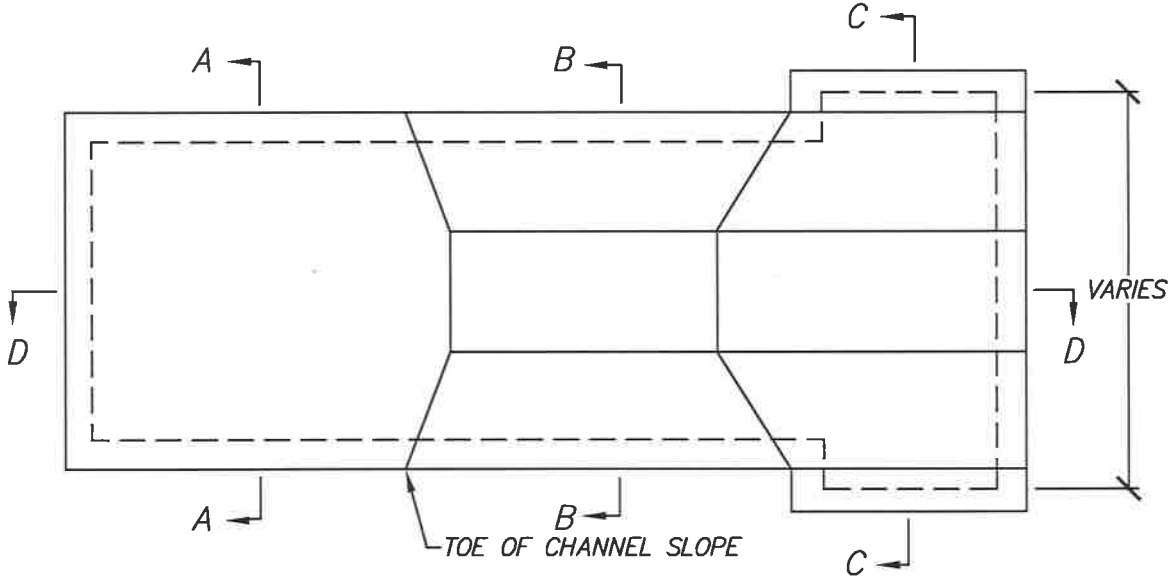
SECTION B–B



SECTION C–C



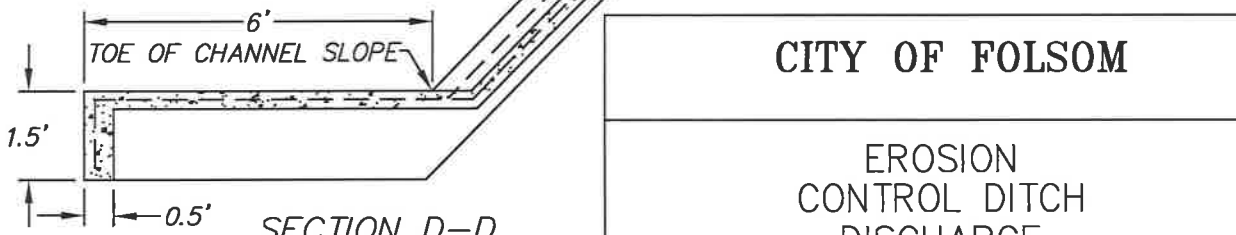
FRONT VIEW



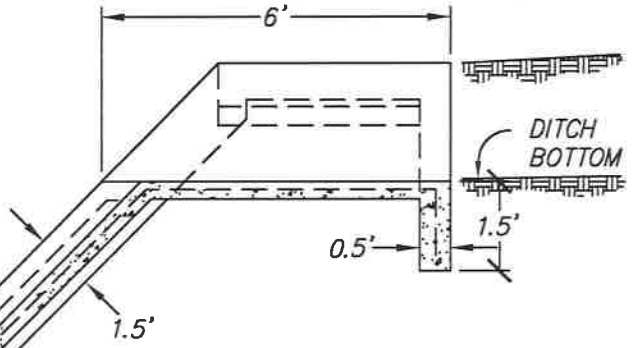
TOP VIEW

NOTES:

1. USE CLASS B CONCRETE OR GROUTED COBBLES AS SPECIFIED.
2. 6 X 6 X 10 GA WIRE MESH THROUGHOUT CONCRETE.
3. ON LINED CHANNELS, APRON SHALL CONNECT TO SIDE LINING.
4. B=DITCH BOTTOM WIDTH OR AS SHOWN ON PLANS.



SECTION D–D

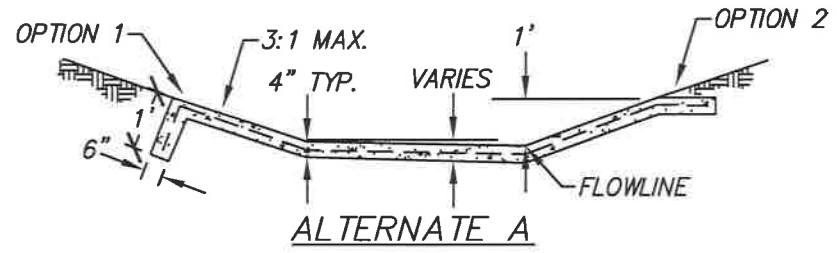


CITY OF FOLSOM

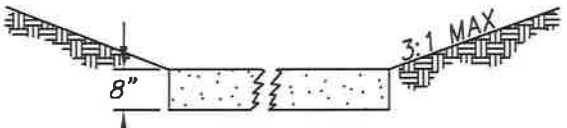
EROSION CONTROL DITCH DISCHARGE

SCALE: NONE
DATE: FEBRUARY 2020

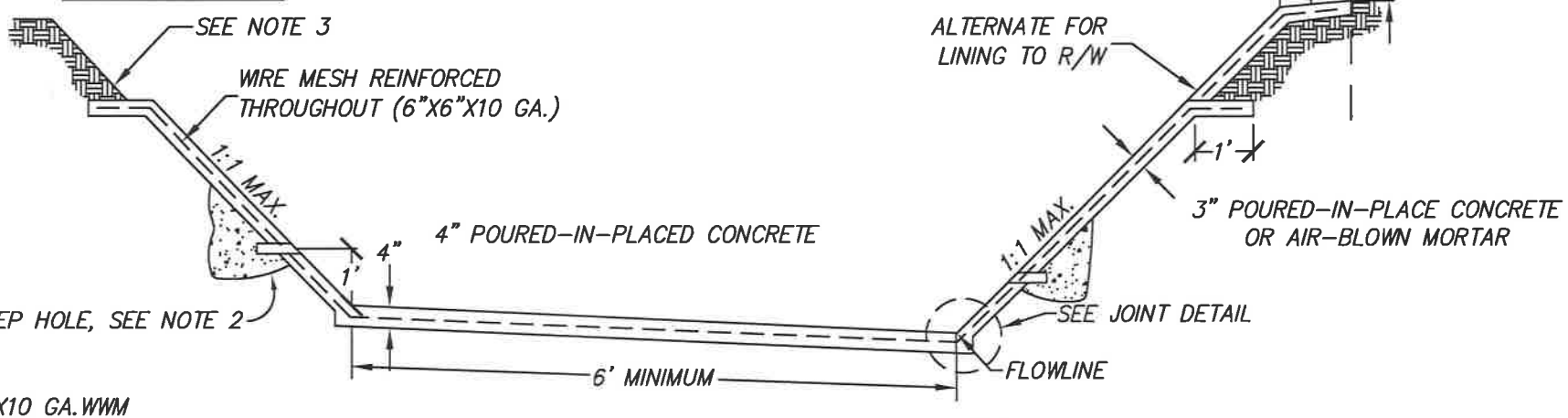
SD–21



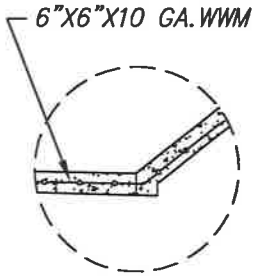
ALTERNATE A



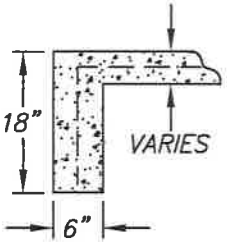
ALTERNATE B
(NO WIRE FABIC REQUIRED)



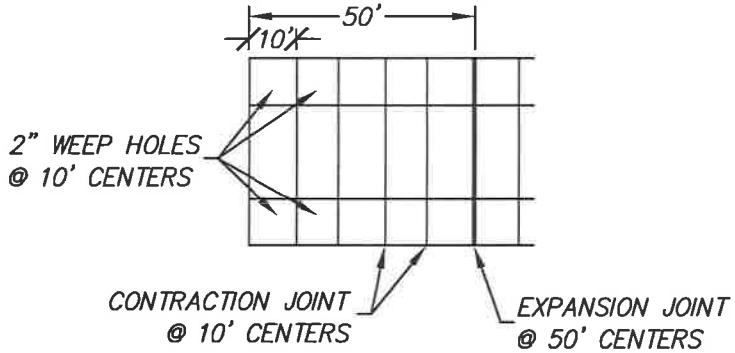
SECTION



JOINT DETAIL



CUTOFF WALL

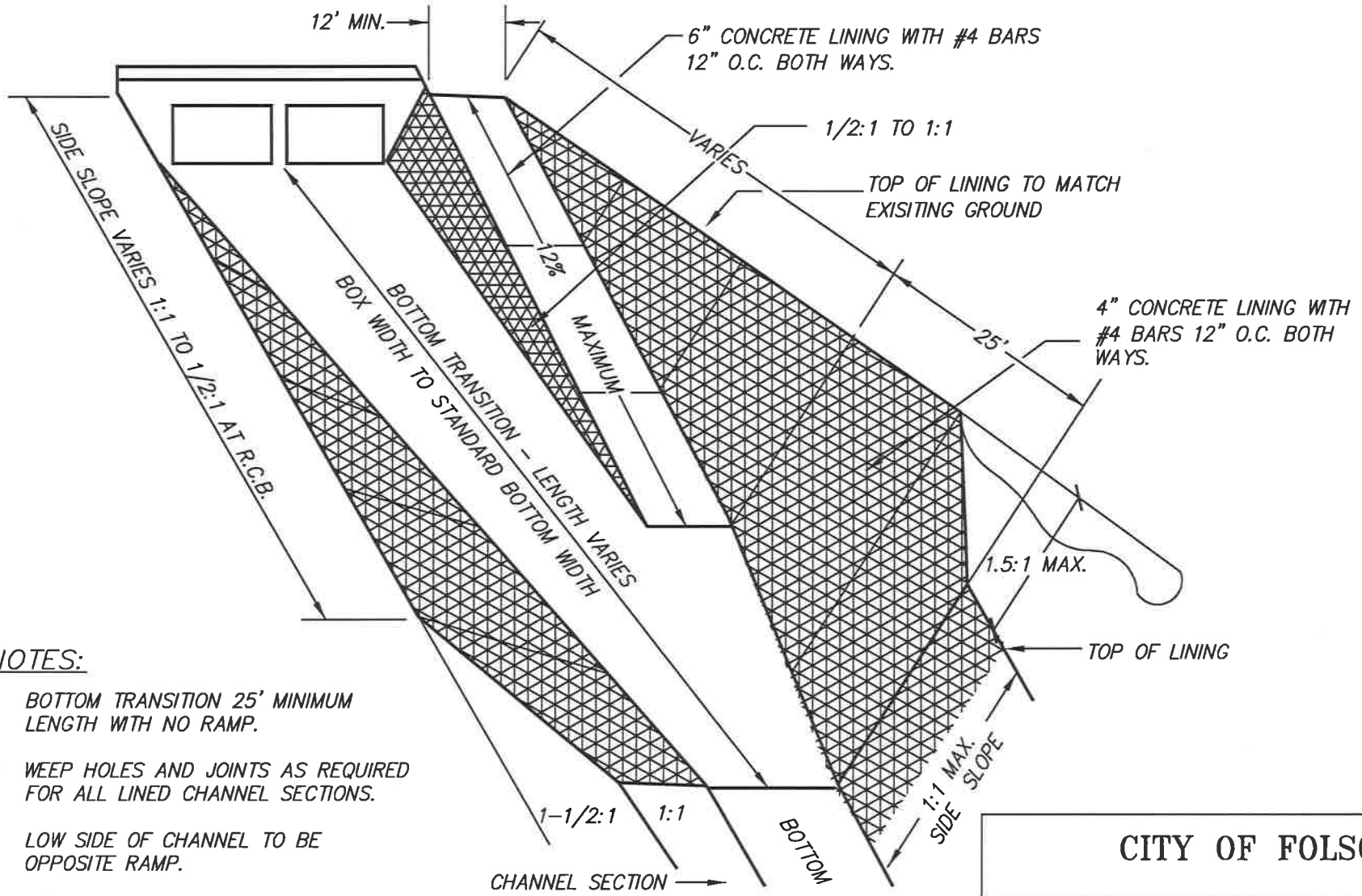


PLAN

NOTES:

1. CUTOFF WALL TO BE PLACED ALONG ENTIRE END OF LINED SECTION AT THE BEGINING AND END OF LINING.
2. WEEP HOLE WITH SACK OF PERVIOUS MATERIAL BEHIND THE WEEP HOLE (1 FT.^{3} MINIMUM) HOLE TO BE 2" DIAMETER PIPE, CUT TO FIT.
3. NO SPECIFIC COMPACTION IS REQUIRED FOR BACKFILL AFTER PLACING LINING.

CITY OF FOLSOM	
LINED CHANNEL SECTION	
SCALE: NONE **DATE: FEBRUARY 2020**	SD-22



NOTES:

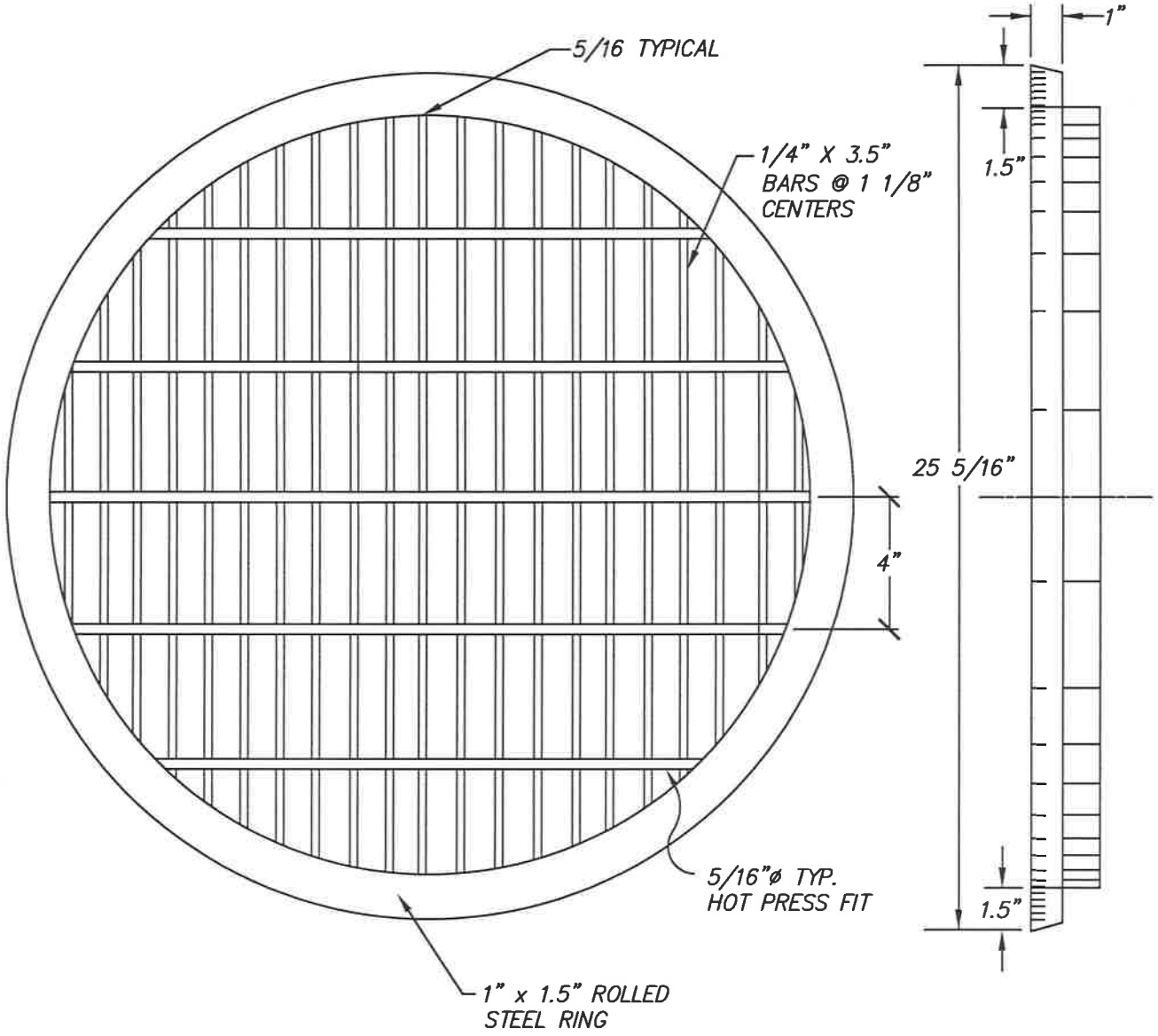
1. BOTTOM TRANSITION 25' MINIMUM LENGTH WITH NO RAMP.
2. WEEP HOLES AND JOINTS AS REQUIRED FOR ALL LINED CHANNEL SECTIONS.
3. LOW SIDE OF CHANNEL TO BE OPPOSITE RAMP.
4. SIDE SLOPE LINING MAY BE DELETED ON CHANNELS WITH BOTTOM LINING ONLY

CITY OF FOLSOM

TYPICAL RAMP AND TRANSITION

SCALE: NONE
DATE: FEBRUARY 2020

SD-23



NOTES:

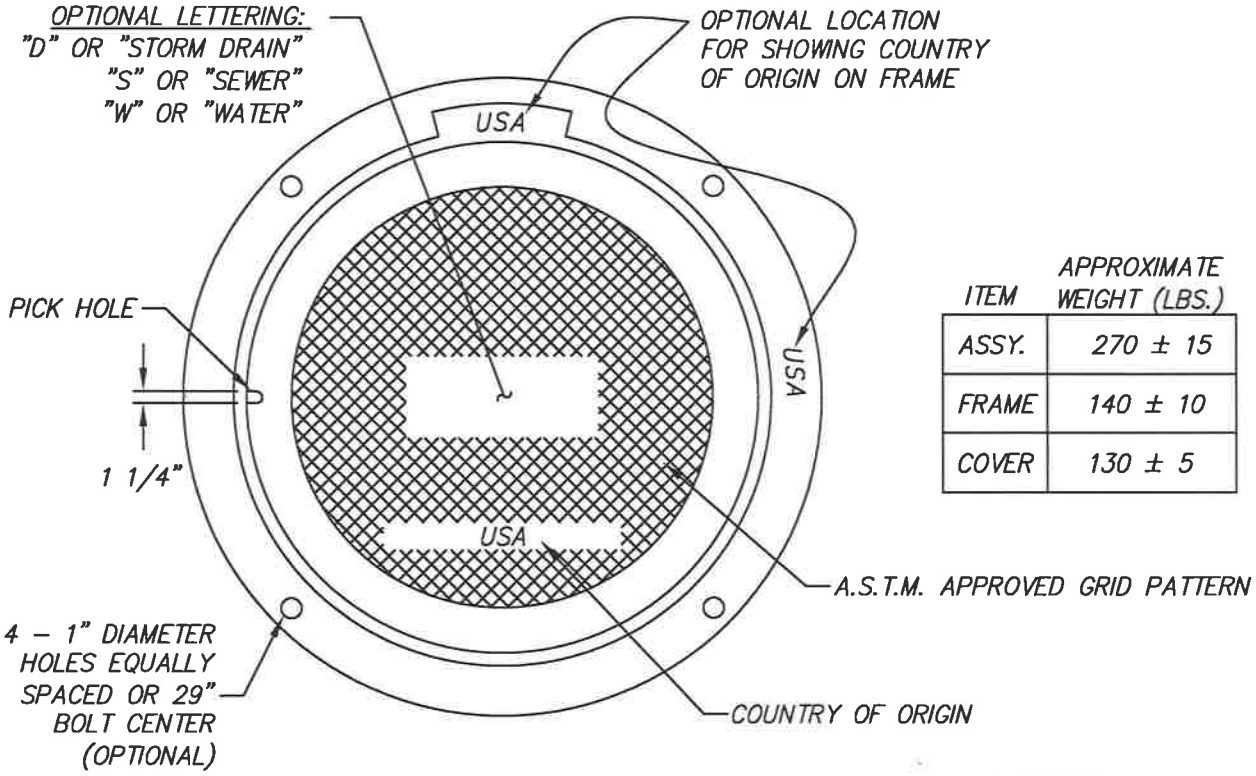
1. MANHOLE COVER SHALL FIT FRAME SHOWN ON DRAWING SD-27.
2. SEATING SURFACES SHALL BE MACHINED AS SHOWN IN DETAIL ON DRAWING SD-27.
3. THIS COVER MAY BE USED ONLY WITH APPROVAL OF ENGINEER.
4. GALVANIZE AFTER FABRICATION.

CITY OF FOLSOM

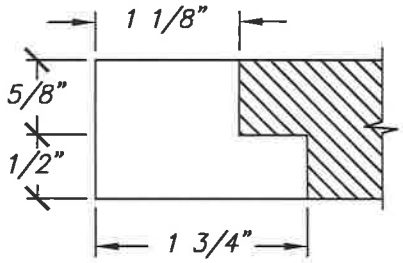
GRATED MANHOLE COVER

SCALE: NONE
DATE: FEBRUARY 2020

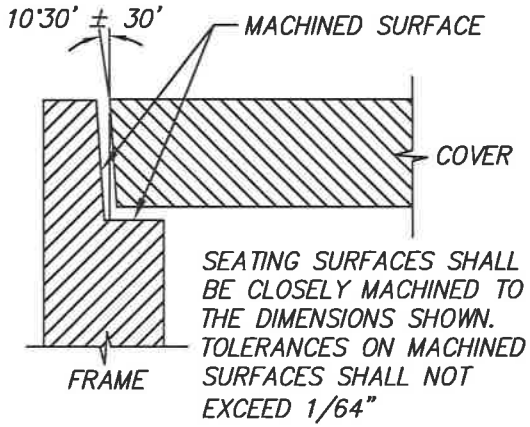
SD-24

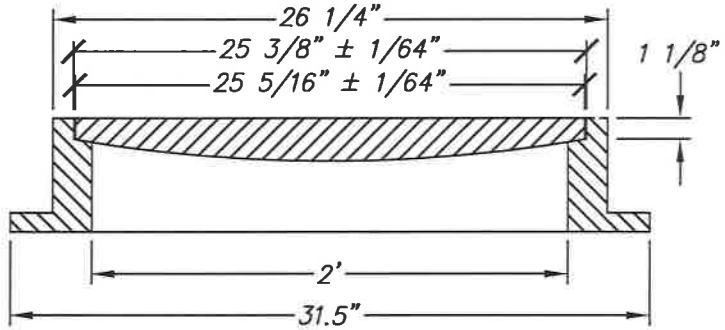


ITEM	APPROXIMATE WEIGHT (LBS.)
ASSY.	270 ± 15
FRAME	140 ± 10
COVER	130 ± 5



PICK HOLE





NOTES:

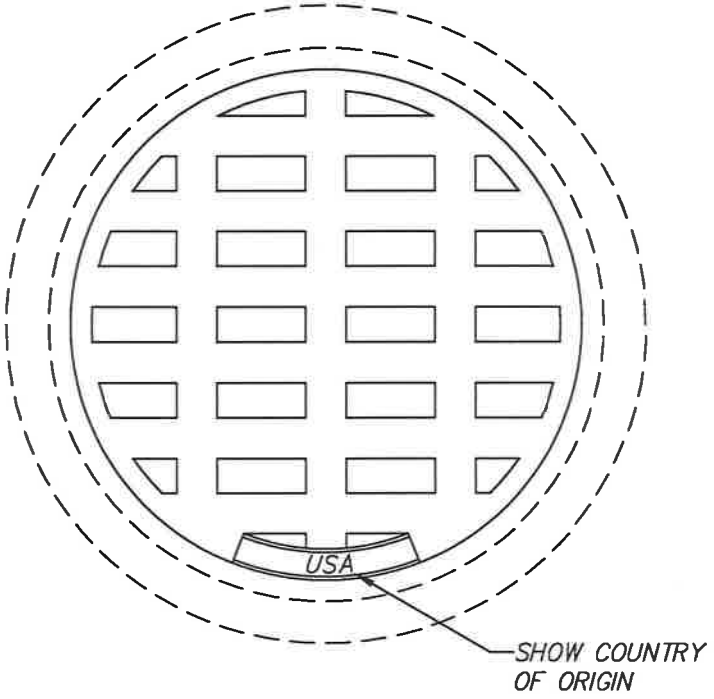
1. COUNTRY OF ORIGIN SHALL BE CLEARLY SHOWN ON THE TOP SURFACE OF THE MANHOLE FRAME AND COVER IN ACCORDANCE WITH THE TRADE AND TARIFF ACT OF 1984.
2. DATE OF MANUFACTURE SHALL BE CLEARLY AND PERMANENTLY INDICATED ON THE COVER AND THE TOP OF THE FRAME.

CITY OF FOLSOM

STANDARD 24" MANHOLE FRAME AND COVER

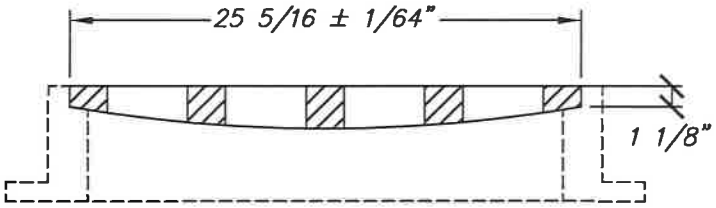
SCALE: NONE
DATE: FEBRUARY 2020

SD–25



NOTES:

1. MANHOLE COVER SHALL FIT FRAME AS SHOWN ON DRAWING SD-27.
2. SEATING SURFACES SHALL BE MACHINED AS SHOWN ON DRAWING SD-27.
3. GRATE MANHOLE COVER SHALL NOT BE USED IN ANY LOCATION SUBJECT TO VEHICULAR TRAFFIC.
4. MINIMUM AREA OF DRAINAGE OPENING SHALL BE 150 SQUARE INCHES.
5. MAXIMUM LENGTH OF INDIVIDUAL OPENINGS SHALL BE 4.5". MAXIMUM WIDTH OF INDIVIDUAL OPENINGS SHALL BE 1.5".
6. MINUMUM LENGTH OF FULL RECTANGULAR OPENINGS SHALL BE 3.5"; MINUMUM WIDTH SHALL BE 1.25".
7. MAXIMUM WEIGHT SHALL BE 150 LBS. MINIMUM WEIGHT SHALL BE 130 LBS.
8. NUMBER OF OPENINGS MAY VARY FROM THAT SHOWN ON THE DRAWING.
9. COUNTRY OF ORIGIN SHALL BE CLEARLY SHOWN ON THE TOP SURFACE OF THE MANHOLE FRAME AND COVER IN ACCORDANCE WITH THE TRADE AND TARIFF ACT OF 1984.
10. DATE OF MANUFACTURE SHALL BE CLEARLY CAST, STAMPED, ETCHED OR ENGRAVED ON THE MANHOLE COVER.

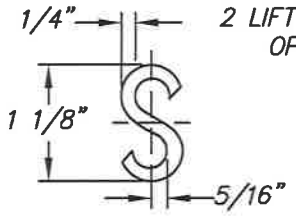


CITY OF FOLSOM

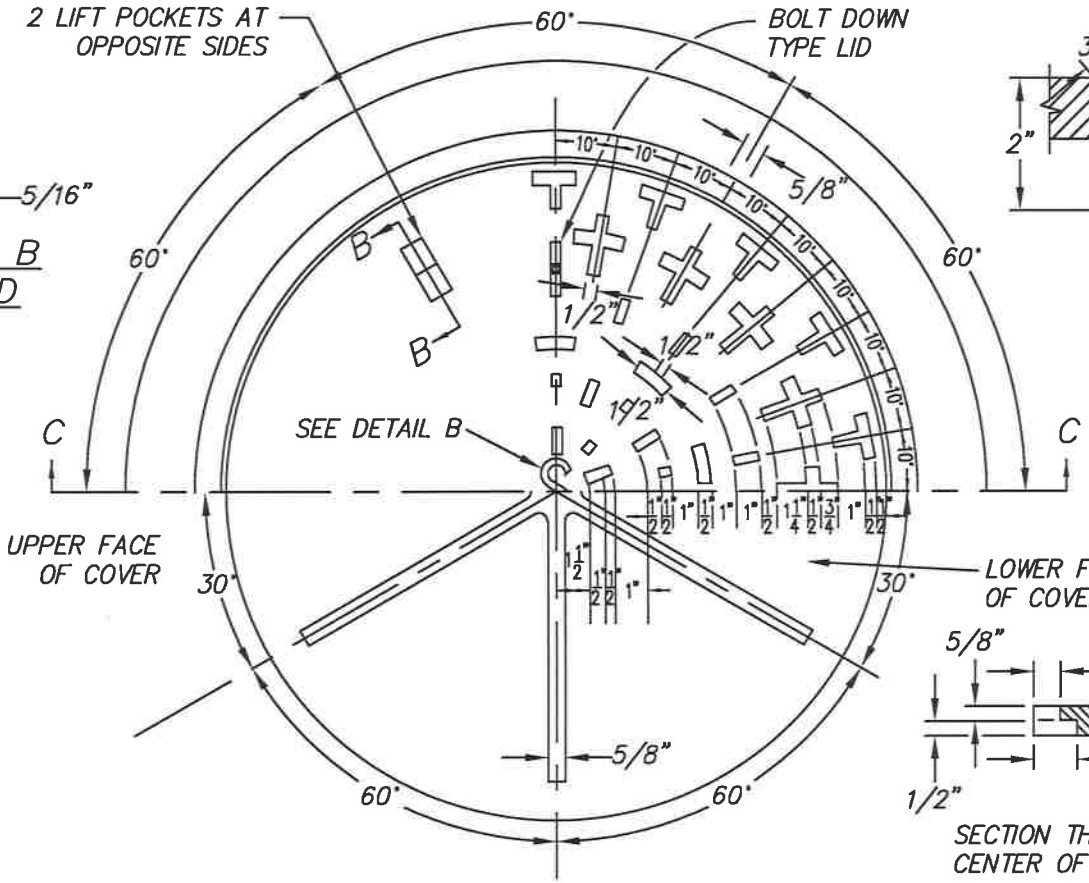
DRAINAGE GRATE MANHOLE COVER

SCALE: NONE
DATE: FEBRUARY 2020

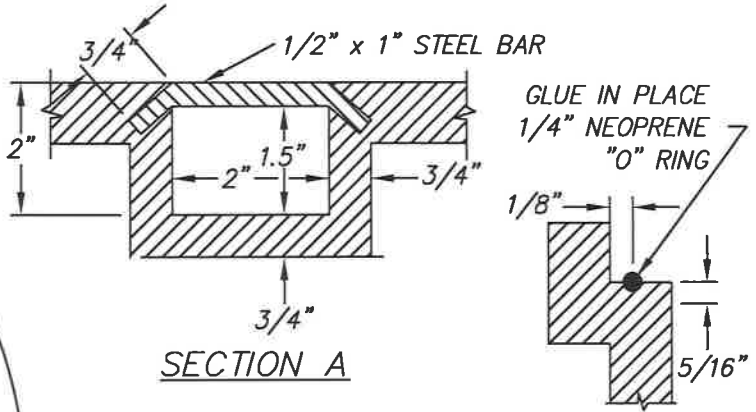
SD-26



DETAIL B AND D



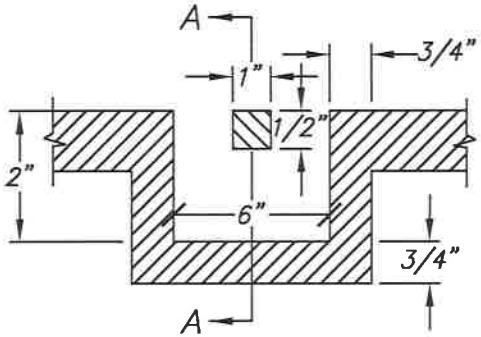
HALF PLAN OF HEAD AND COVER



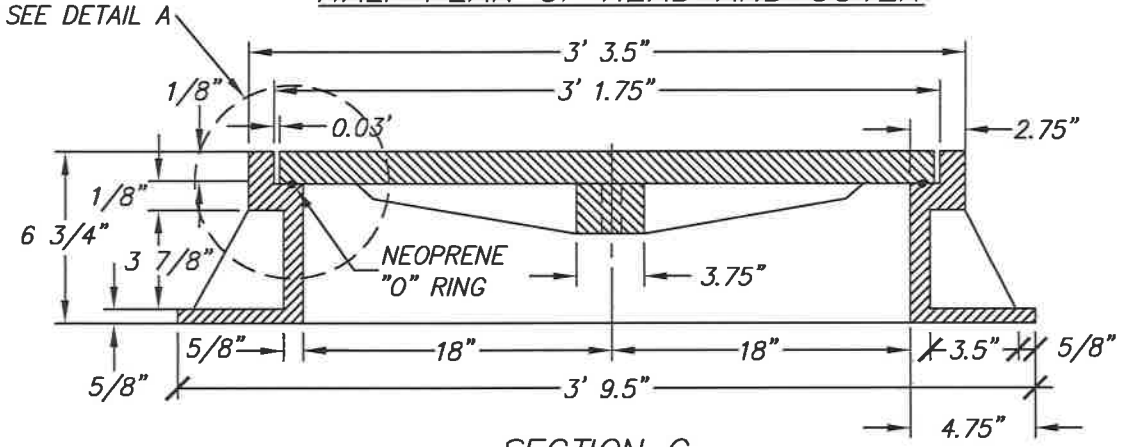
SECTION A

DETAIL A

SECTION THROUGH CENTER OF PICK HOLE



SECTION B



SECTION C

CITY OF FOLSOM

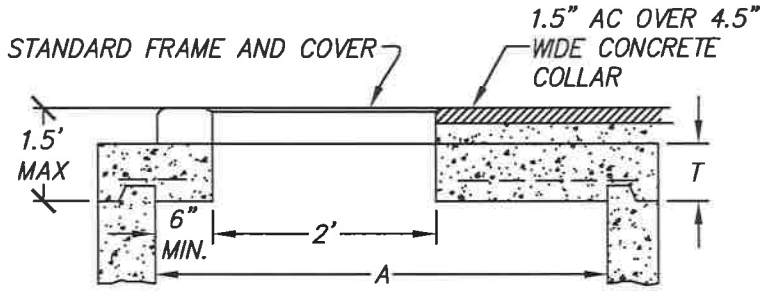
STANDARD 36" MANHOLE FRAME AND COVER

SCALE: NONE
DATE: FEBRUARY 2020

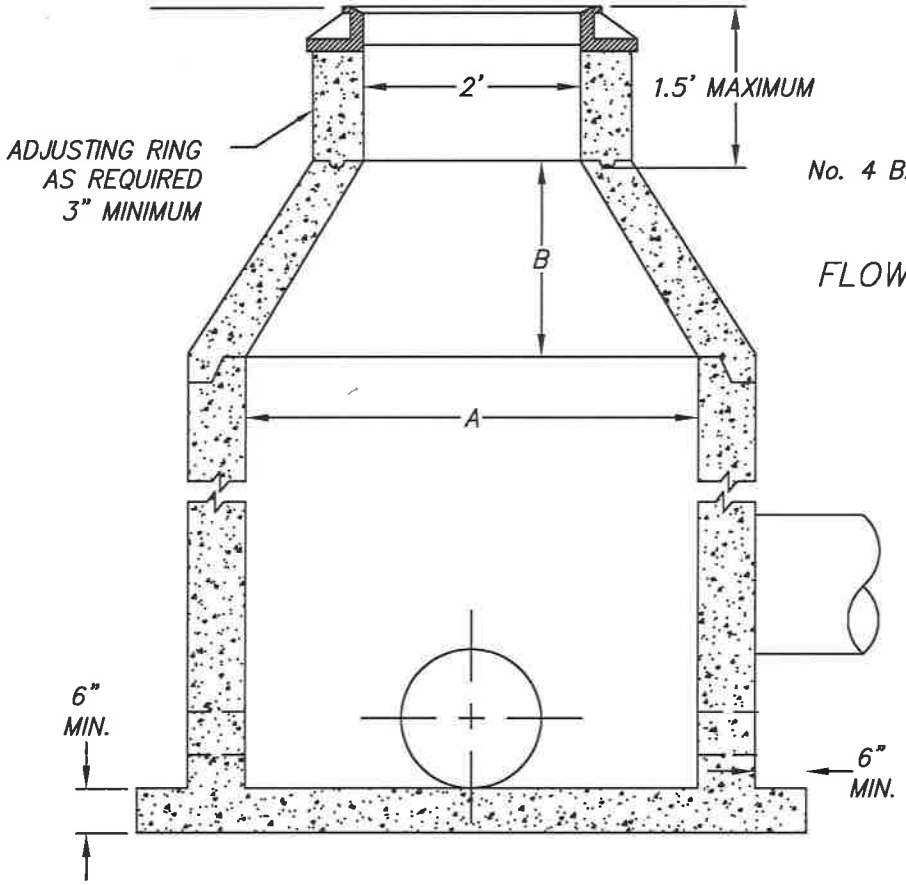
SD-27

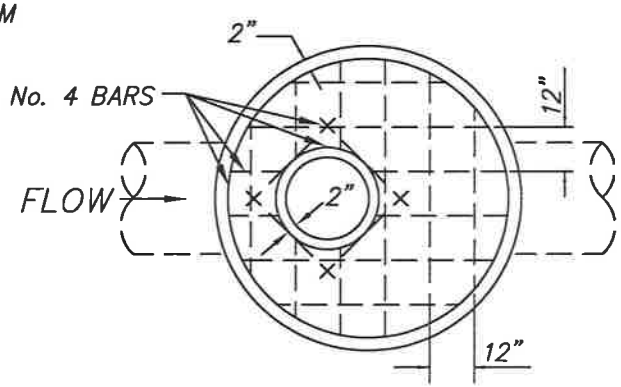
NOTES:

1. ALL CONCRETE SHALL BE CLASS B.
2. SUMP NOT REQUIRED IF OUTFALL PIPE GREATER THAN 24".
3. JOINTS MAY BE EITHER KEYED OR TONGUE AND GROOVE.
4. DIMENSION "B" IS A MINIMUM DIMENSION AND MAY BE GREATER IF DEPTH PERMITS.
5. RISER SECTIONS, CONES, AND ADJUSTING RINGS SHALL CONFORM TO ASTM DESIGNATION C-478.
6. FRAME SHALL BE SECURED TO RISER OR FLAT SLAB TOP WITH 1.5" AC OVER 4.5" CONCRETE COLLAR.



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





FLAT SLAB TOP

TABLE OF DIMENSIONS

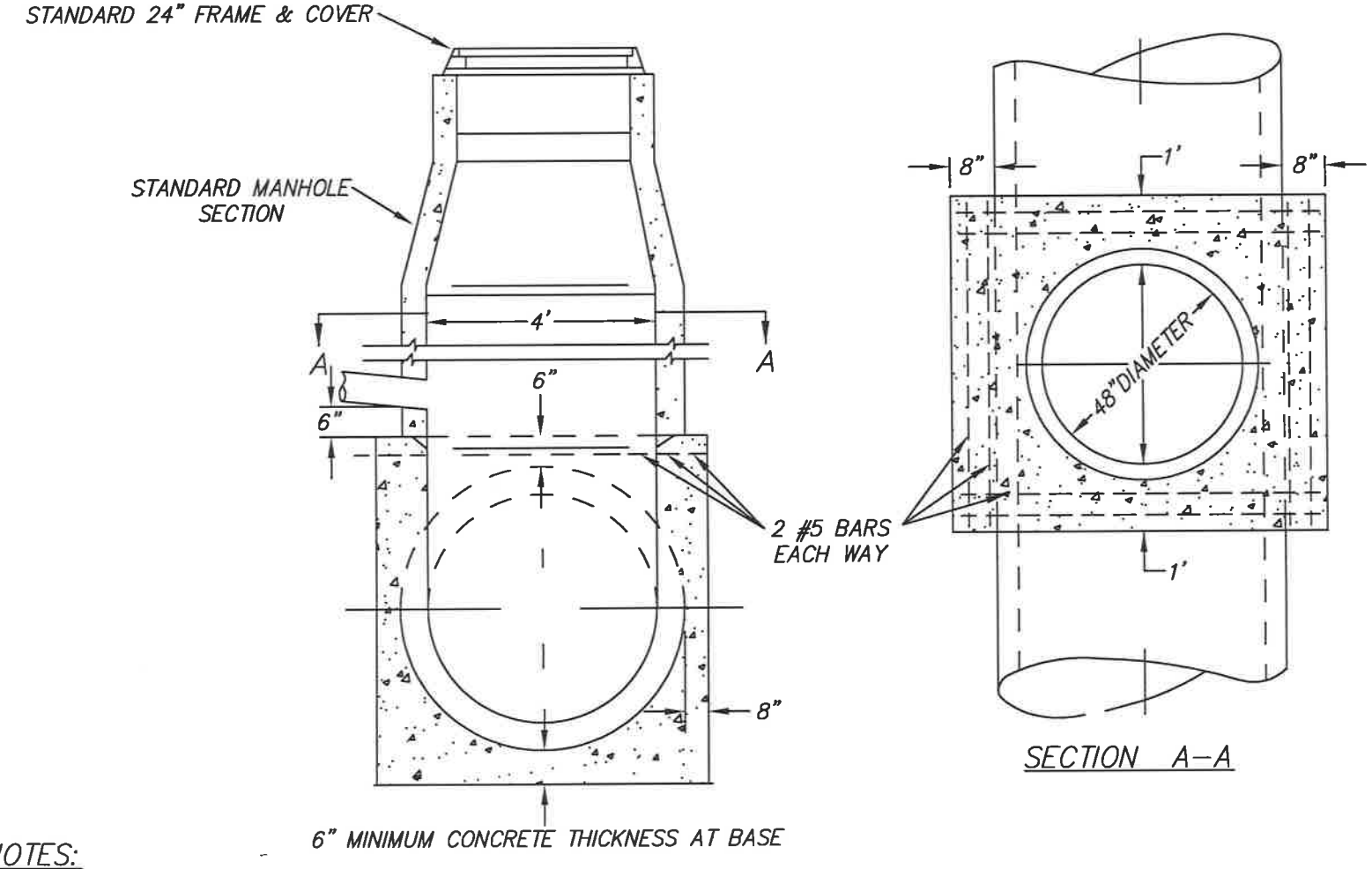
M.H.	A	B
48"	48"	18"
60"	60"	30"
72"	72"	42"

CITY OF FOLSOM

STANDARD
PRECAST MANHOLE

SCALE: NONE
DATE: FEBRUARY 2020

SD-28



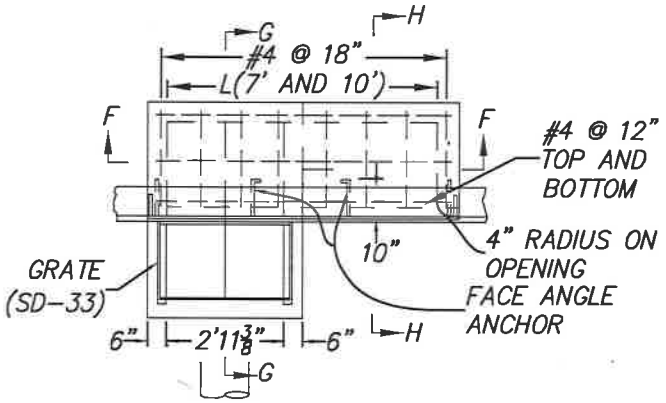
NOTES:

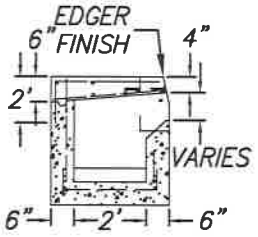
1. ALL CONCRETE SHALL BE CLASS B.
2. EXISTING PIPE SHALL BE CUT AT THE SPRING LINE.
3. ECCENTRIC CONES SHALL BE USED WHERE SPECIFIED ON THE PLANS.
4. JOINTS MAY BE EITHER KEYED OR TONGUE AND GROOVE.
5. NO CONNECTION SHALL BE MADE TO THE CONE.
6. CONNECTIONS SHALL BE A MINIMUM OF 6" FROM THE TOP OF THE SADDLE.
7. MANHOLE OPENING SIZE IS BASED ON OVERALL DIAMETER, AND MANHOLE DIAMETER IS BASED ON DEPTH.

CITY OF FOLSOM	
SADDLE MANHOLE	
SCALE: NONE **DATE: FEBRUARY 2020**	SD–29

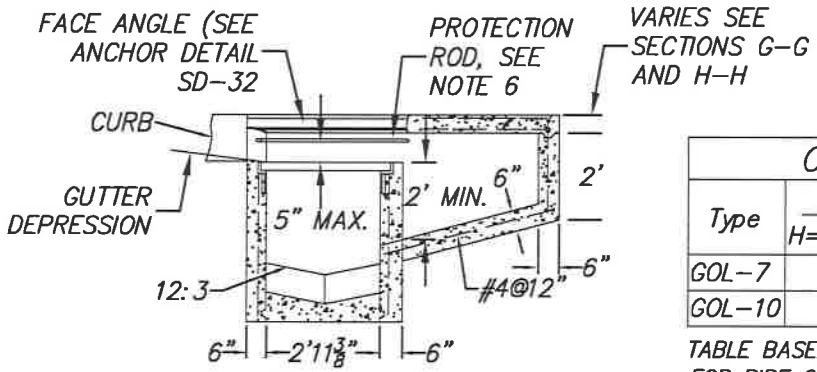
NOTES:

1. "H" IS THE DIFFERENCE IN ELEVATION BETWEEN THE OUTLET PIPE FLOWLINE AND THE NORMAL GUTTER GRADELINE UNDEPRESSED AT THE CURB FACE.
2. HEIGHT OF CURB OPENING WILL VARY WITH THE TYPE OF CURB AND THE DEPTH OF THE LOCAL DEPRESSION.
3. WALL REINFORCING NOT REQUIRED WHEN "H" IS 8' OR LESS AND THE UNSUPPORTED WIDTH OR LENGTH IS 7' OR LESS. WALLS EXCEEDING THESE LIMITS SHALL BE REINFORCED WITH #4 BARS @ 18"± CENTERS PLACED 1½" CLEAR TO INSIDE OF BOX UNLESS OTHERWISE SHOWN.
4. INLET BOTTOM REINFORCING NOT REQUIRED. SEE STANDARD DRAWING SD-33 FOR ALTERNATIVE REINFORCED BOTTOM.
5. STEPS- NONE REQUIRED WHERE "H" IS LESS THAN 30". WHERE "H" IS 30" OR MORE, INSTALL STEPS WITH LOWEST RUNG 12" ABOVE THE FLOOR AND HIGHEST RUNG NOT MORE THAN 6" BELOW TOP OF INLET. THE DISTANCE BETWEEN STEPS SHALL NOT EXCEED 12" AND BE UNIFORM THROUGHOUT THE LENGTH OF THE WALL. PLACE STEPS IN THE WALL WITHOUT AN OPENING. STEP INSERTS MAY BE SUBSTITUTED FOR THE BAR STEPS. STEP INSERTS SHALL COMPLY WITH STATE INDUSTRIAL SAFETY REQUIREMENTS. SEE STANDARD DRAWING SD-32 FOR STEP DETAILS.
6. PLACE A ¾" DIAMETER GALVANIZED PROTECTION ROD HORIZONTALLY ACROSS THE LENGTH OF THE OPENING AND BEND BACK 4" INTO THE INLET WALL ON EACH SIDE.
7. PIPE(S) CAN BE PLACED IN ANY WALL.
8. CURB SECTION SHALL MATCH ADJACENT CURB.
9. EXCEPT FOR INLETS USED AS JUNCTION BOXES, BASIN FLOOR SHALL HAVE A MINIMUM SLOPE OF 12:3 FROM ALL DIRECTIONS TOWARD OUTLET PIPE AND SHALL HAVE A WOOD TROWEL FINISH.
10. GALVANIZING- SEE SECTION 75-1.05, GALVANIZING, OF THE STATE STANDARD SPECIFICATIONS OR THE SPECIAL PROVISION.
11. SEE STANDARD DRAWING SD-33 FOR GRATE AND FRAME DETAILS AND WEIGHTS OF MISCELLANEOUS IRON AND STEEL.
12. SEE STANDARD DRAWING SD-36 FOR GUTTER DEPRESSION DETAILS.
13. FULL PENETRATION BUTT WELDS MAY BE SUBSTITUTED FOR THE FILLET WELDS ON ALL ANCHORS.
14. STANDARD SQUARE, HEXAGON, ROUND OR EQUIVALENT HEADED ANCHORS MAY BE SUBSTITUTED FOR THE RIGHT ANGLE HOOKS ON THE ANCHORS SHOWN ON THIS PLAN.
15. CAST-IN-PLACE OR PRECAST ALTERNATIVE IS OPTIONAL WITH CONTRACTOR. SEE STANDARD SPECIFICATIONS.
16. DRAIN INLETS AT SAG POINTS L DIMENSION IS EXTENDED BOTH SIDES.

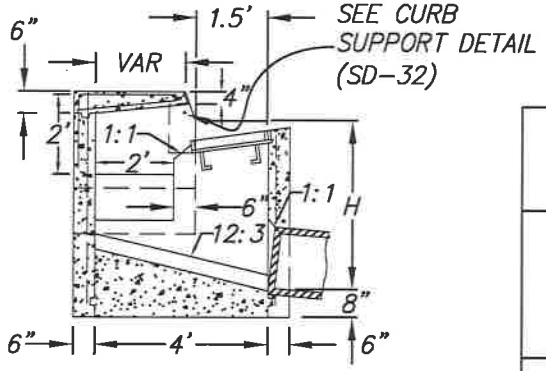




SECTION H-H



SECTION F-F



SECTION G-G

TABLE A

CONCRETE QUANTITIES		
Type	H = 3' TO 8'	
	H=3-0" (CY)	ADDITIONAL PCC (CY)
GOL-7	2.33	0.313
GOL-10	2.84	0.313

TABLE BASED ON 8" FLOOR SLAB, NO DEDUCTION FOR PIPE OPENINGS, 7" CURB OPENINGS, AND CURB TYPE GIVING HIGHEST QUANTITY OF CONCRETE. NO DEDUCTIONS OR ADJUSTMENTS ARE TO BE MADE TO THESE QUANTITIES BECAUSE OF PIPE OPENINGS, DIFFERENT FLOOR ALTERNATIVES, DIFFERENT CURB TYPES OR DIFFERENT HEIGHT OF CURB OPENINGS.

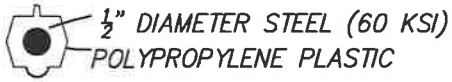
CITY OF FOLSOM

DRAIN INLET – TYPE GOL

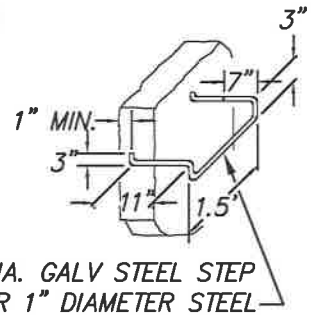
1 OF 4

SCALE: NONE
DATE: FEBRUARY 2020

SD-30

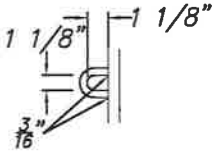


TYPICAL SECTION



¾" DIA. GALV STEEL STEP OR 1" DIAMETER STEEL STEP (STEP INSERT)

BAR STEP



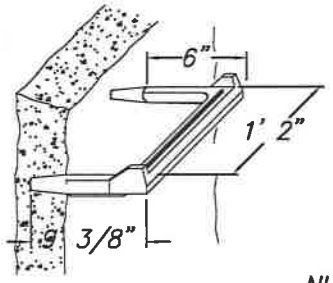
STIRRUP

NOTES:

1. PLACE A 3/4 " GALVANIZED PROTECTION ROD HORIZONTALLY ACROSS LENGTH OF THE OPENING AND BEND BACK 4" INTO THE INLET WALL ON EACH SIDE.
2. CURB SUPPORTS SHALL BE EVENLY SPACED AND MINIMAL IN NUMBER SUCH THAT THE MAXIMUM SPAN OF UNSUPPORTED CURB IS 3.5'.

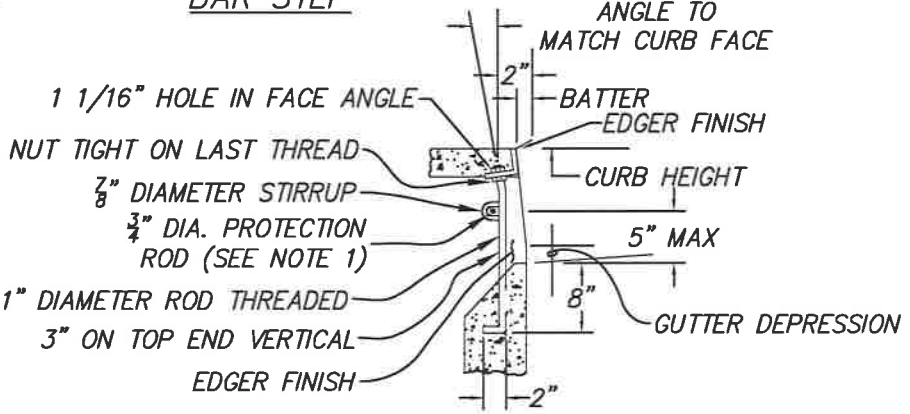
FACE ANGLE ANCHOR DETAIL A

FACE ANGLE DETAIL A	
LENGTH OF CURB OPENING	NO. OF ANCHORS
7'	3
10'	4



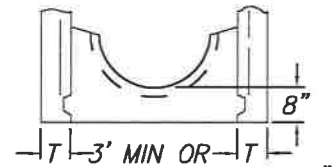
STEP INSERT

STEP DETAILS

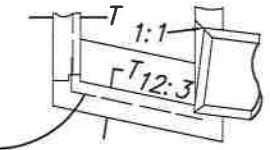


CURB SUPPORT

SEE NOTE 2

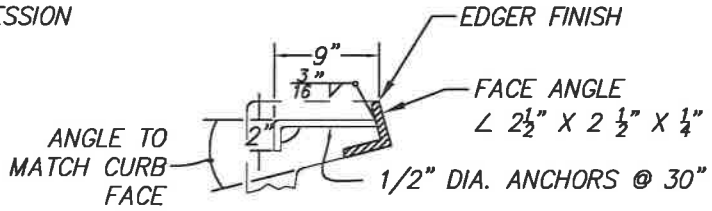


ALTERNATIVE HALF ROUND BOTTOM

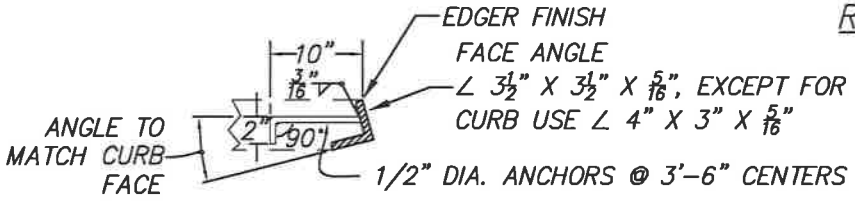


#4@12" CENTERS MIN TOTAL 3

ALTERNATIVE REINFORCED BOTTOM



FACE ANGLE ANCHOR DETAIL B



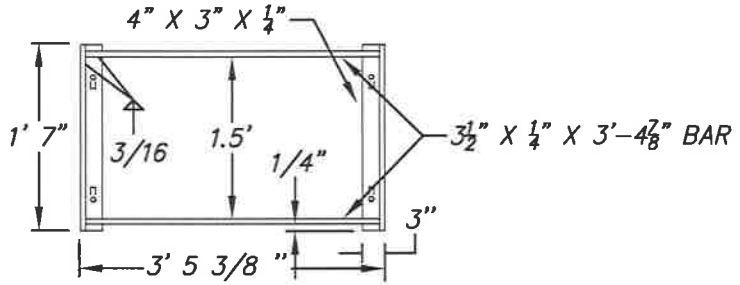
CITY OF FOLSOM

DRAIN INLET – TYPE GOL

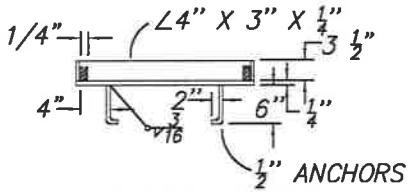
2 OF 4

SCALE: NONE
DATE: FEBRUARY 2020

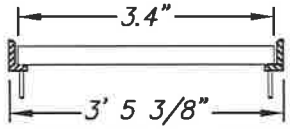
SD-31



TYPICAL FRAME



CROSS SECTION
(THRU FRAME)

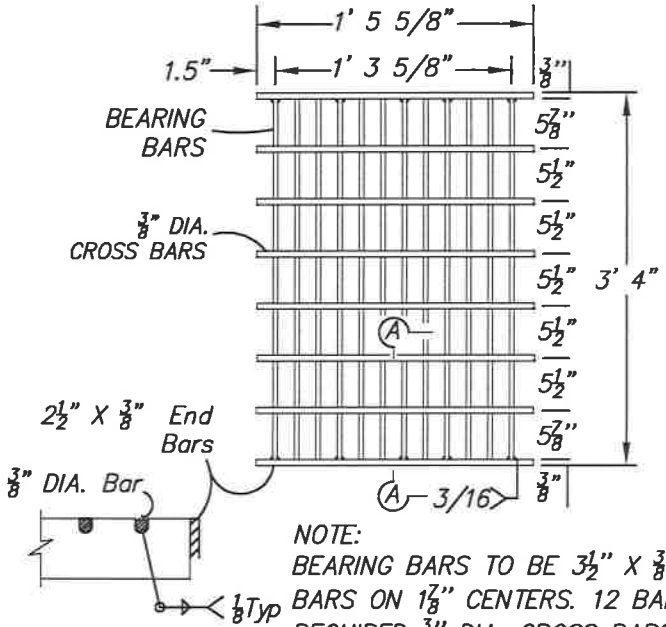


LONGITUDINAL SECTION
(THRU FRAME AND GRATE)

NOTES:

1. EITHER WELDED STEEL GRATE TYPES 18-9X OR 18-8S MAY BE USED AS ALTERNATIVE GRATES AT THE CONTRACTOR'S OPTION.
2. SEE SECTION 75-1.05-GALVANIZING, OF THE STATE STANDARD SPECIFICATIONS FOR REQUIREMENT PERTAINING TO GALVANIZING OF GRATES AND FRAMES.
3. ROUNDED TOP OF BARS OPTIONAL ON ALL GRATES. PIPE INLETS WITH A GRATE SHALL BE PLACED SO THAT BARS PARALLEL DIRECTION OF PRINCIPLE SURFACE FLOW.
4. FULL PENETRATION BUTT WELDS MAY BE SUBSTITUTED FOR THE FILLET WELDS ON ALL ANCHORS.
5. STANDARD SQUARE, HEXAGON, ROUND OR EQUIVALENT HEADED ANCHORS MAY BE SUBSTITUTED FOR THE RIGHT ANGLE HOOKS ON THE ANCHORS SHOWN ON THIS PLAN.

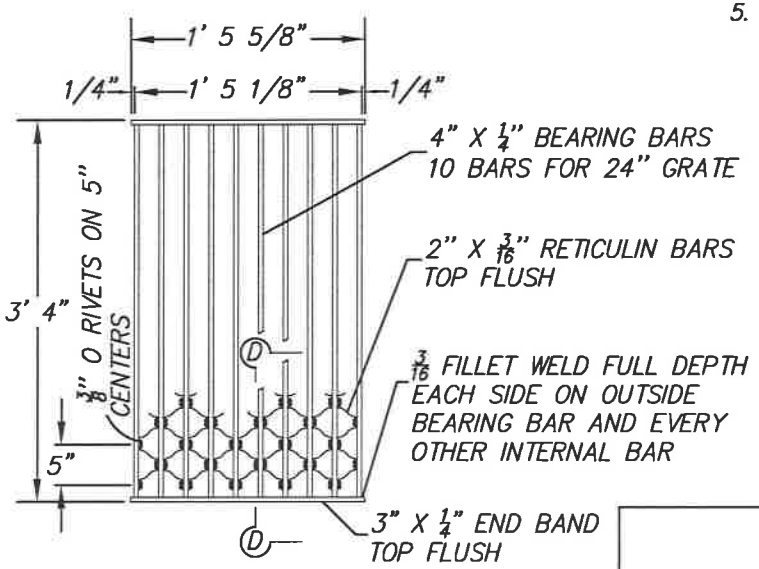
RECTANGULAR FRAMES



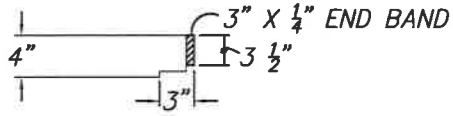
SECTION A-A

NOTE:
BEARING BARS TO BE 3 1/2" X 3/8" BARS ON 1 7/8" CENTERS. 12 BARS REQUIRED 3/8" DIA. CROSS BARS MAY BE FILLET WELDED, RESISTANCE WELDED OR ELECTROFORGED TO BEARING BARS.

TYPE 18-9X GRATE
(WELDED STEEL)



TYPE 18-8S GRATE
(WELDED STEEL) RETICULIN TYPE



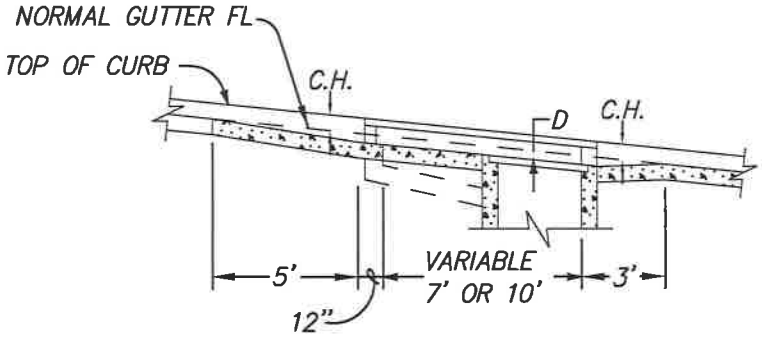
SECTION D-D

CITY OF FOLSOM

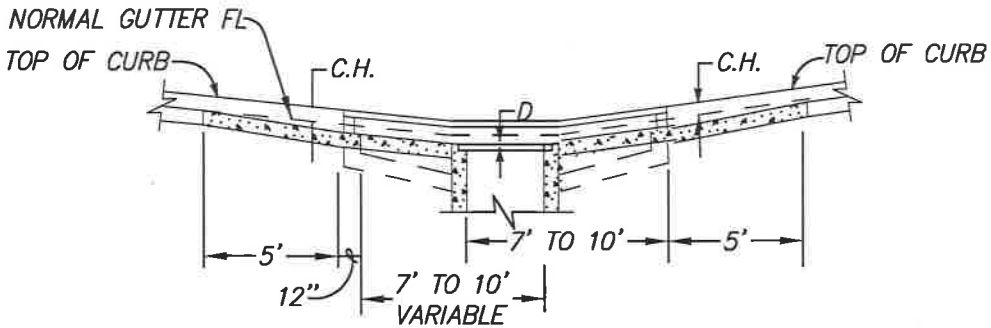
DRAIN INLET – TYPE GOL
3 OF 4

SCALE: NONE
DATE: FEBRUARY 2020

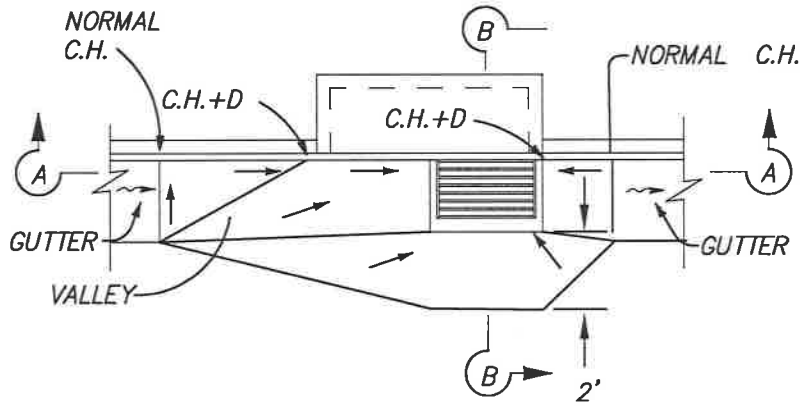
SD-32



SECTION A–A

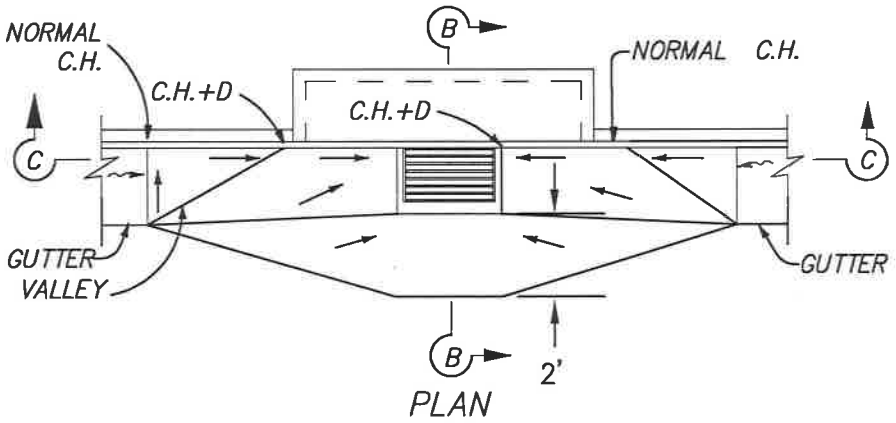


SECTION C–C



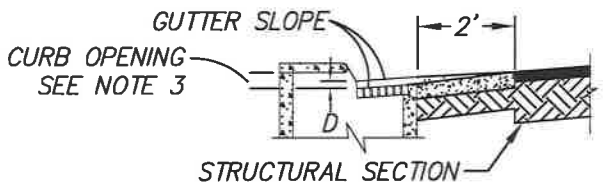
PLAN

TYPE GOL INLET ON GRADE



PLAN

TYPE GOL INLET SAG GRADE



SECTION B–B

NOTES:

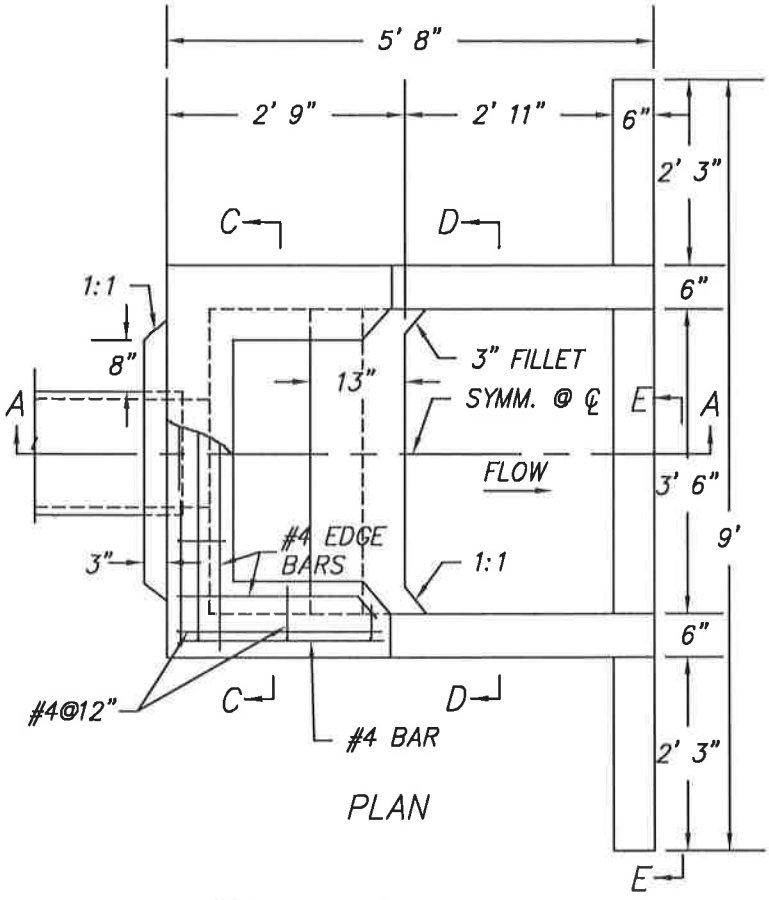
1. NOMENCLATURE
   D = GUTTER DEPRESSION. THE GUTTER DEPRESSION SHALL BE 2" UNLESS OTHERWISE SHOWN.
   C.H. = CURB HEIGHT.
   → = STRAIGHT GRADE, DOWNWARD SLOPE.
   ⇝ = GUTTER OR SHOULDERS DIRECTION OF FLOW.
2. GUTTER DEPRESSIONS SHALL BE 8" THICK.
3. ESTABLISH CURB OPENING HEIGHT AT MIDPOINT OF GRATE.
4. INLETS AT SAGS REQUIRE ADDITIONAL CURB SUPPORTS.

CITY OF FOLSOM

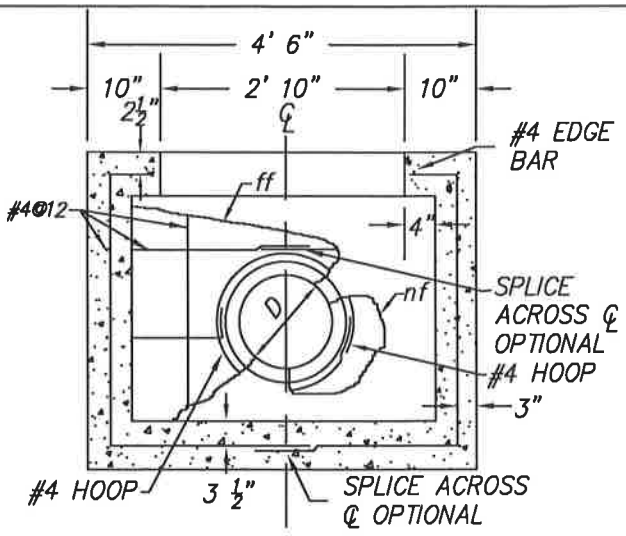
DRAIN INLET – TYPE GOL
4 OF 4

SCALE: NONE
DATE: FEBRUARY 2020

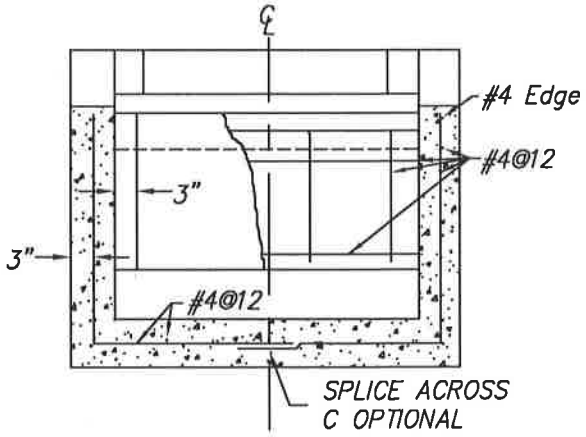
SD–33



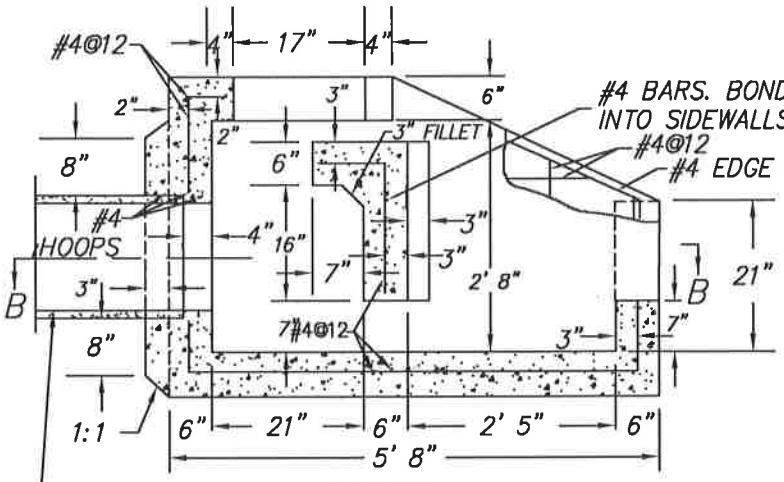
PLAN



SECTION C

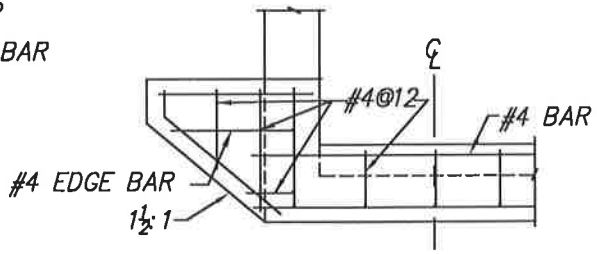


SECTION D



SECTION A

S=0 FOR A DISTANCE OF AT LEAST 3 DIAMETERS.



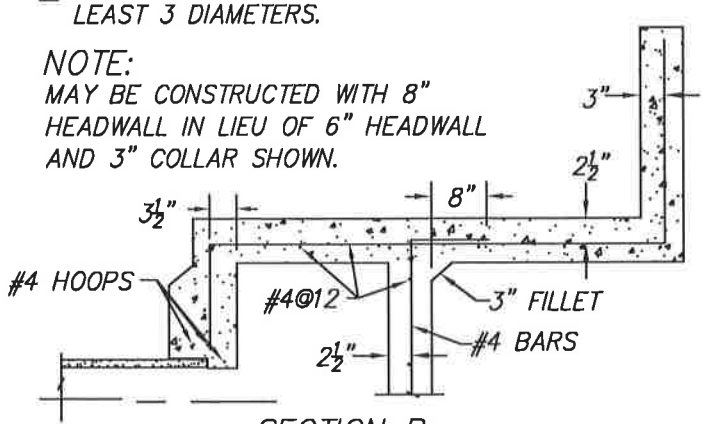
ELEVATION E

ESTIMATE QUANTITIES

CONCRETE.....1.7 CU. YDS.
REINFORCEMENT STEEL.....155 LBS.

NOTE:
SPECIAL DESIGN IS REQUIRED WHERE INCOMING PIPE DIAMETER IS GREATER THAN THE INSIDE DEPTH OF BAFFLE.

NOTE:
MAY BE CONSTRUCTED WITH 8" HEADWALL IN LIEU OF 6" HEADWALL AND 3" COLLAR SHOWN.



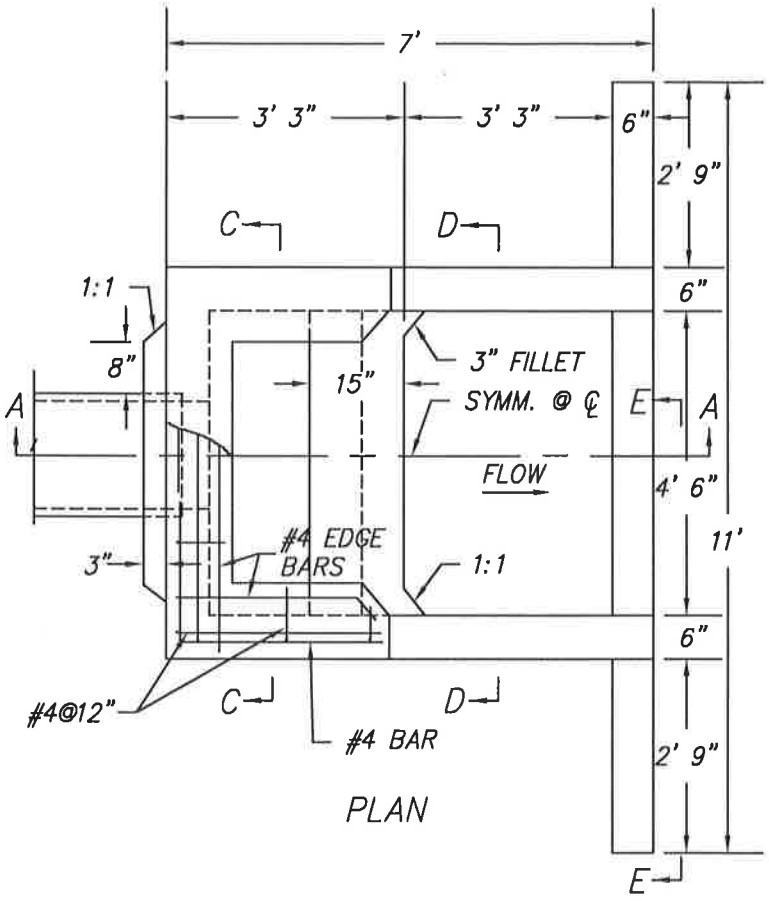
SECTION B

CITY OF FOLSOM

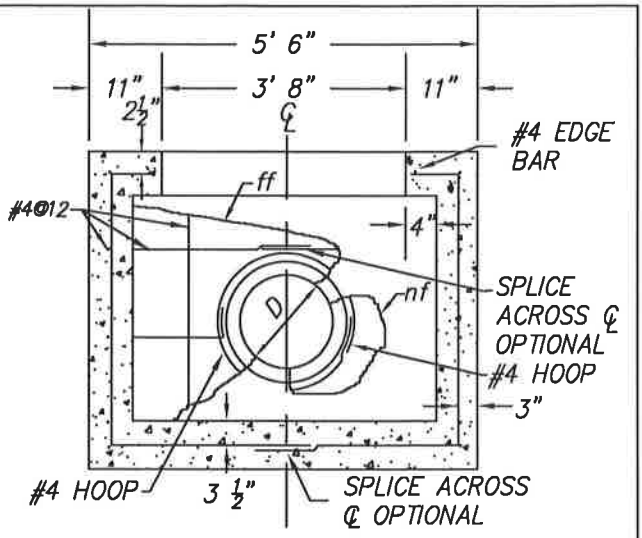
STORM DRAIN OUTFALL ENERGY DISSIPATER TYPE 1

SCALE: NONE
DATE: FEBRUARY 2020

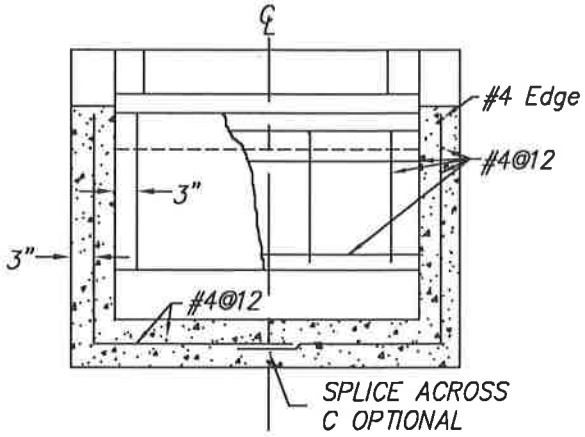
SD-34



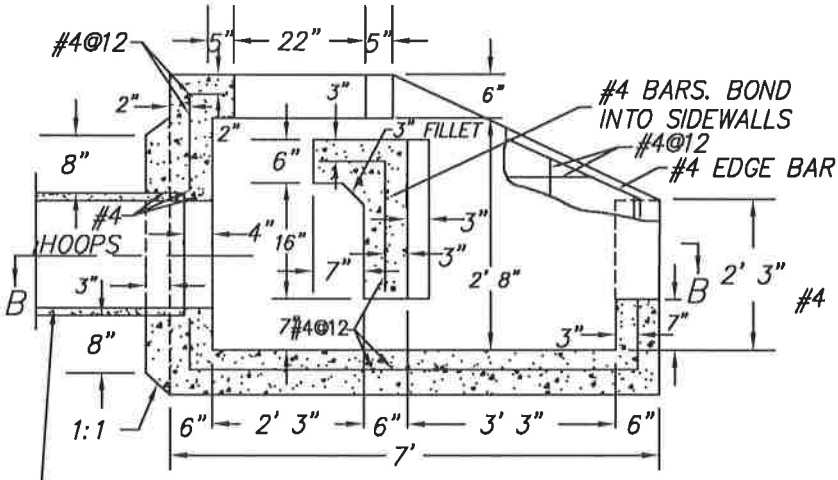
PLAN



SECTION C

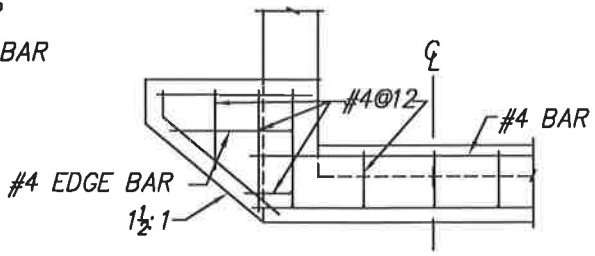


SECTION D



SECTION A

S=0 FOR A DISTANCE OF AT LEAST 3 DIAMETERS.



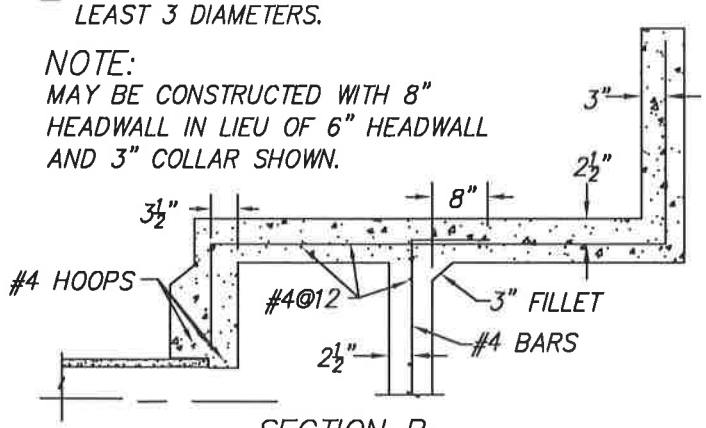
ELEVATION E

ESTIMATE QUANTITIES

CONCRETE.....2.8 CU. YDS.
REINFORCEMENT STEEL.....230 LBS.

NOTE:
SPECIAL DESIGN IS REQUIRED WHERE INCOMING PIPE DIAMETER IS GREATER THAN THE INSIDE DEPTH OF BAFFLE.

NOTE:
MAY BE CONSTRUCTED WITH 8" HEADWALL IN LIEU OF 6" HEADWALL AND 3" COLLAR SHOWN.



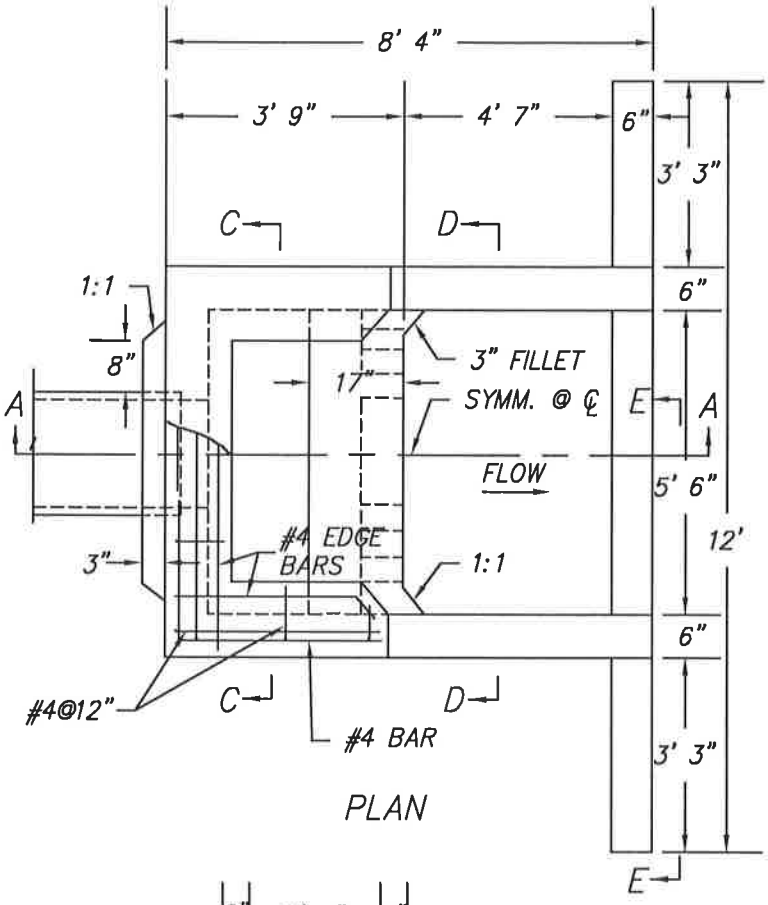
SECTION B

CITY OF FOLSOM

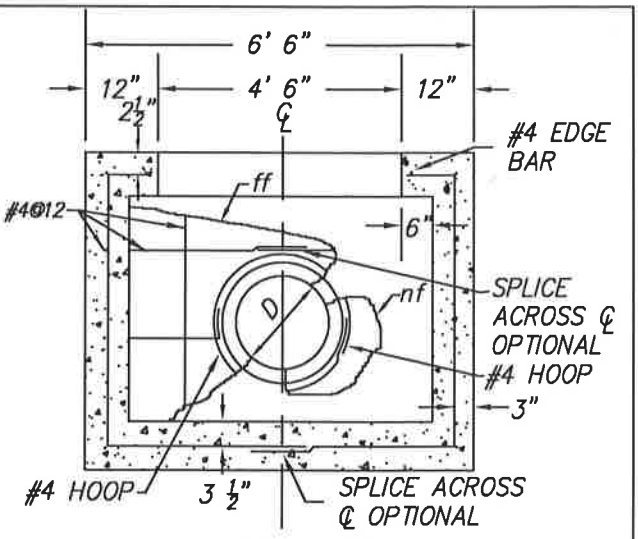
STORM DRAIN OUTFALL
ENERGY DISSIPATER
TYPE 2

SCALE: NONE
DATE: FEBRUARY 2020

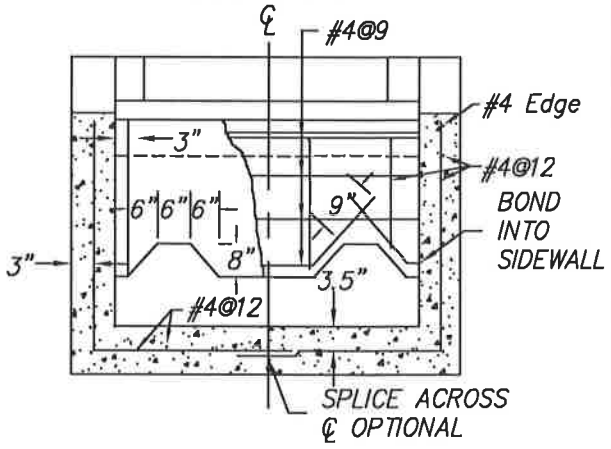
SD-35



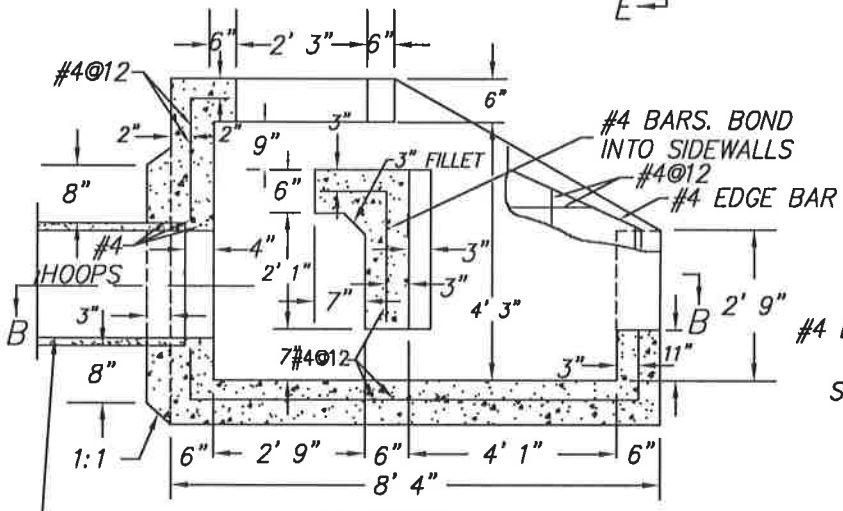
PLAN



SECTION C

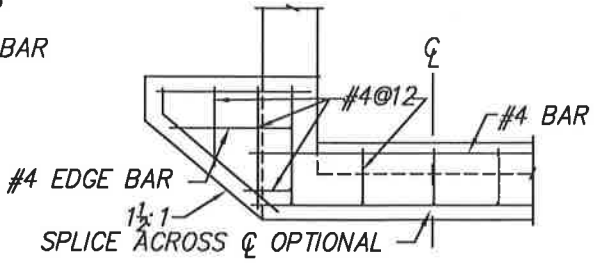


SECTION D



SECTION A

S=0 FOR A DISTANCE OF AT LEAST 3 DIAMETERS.



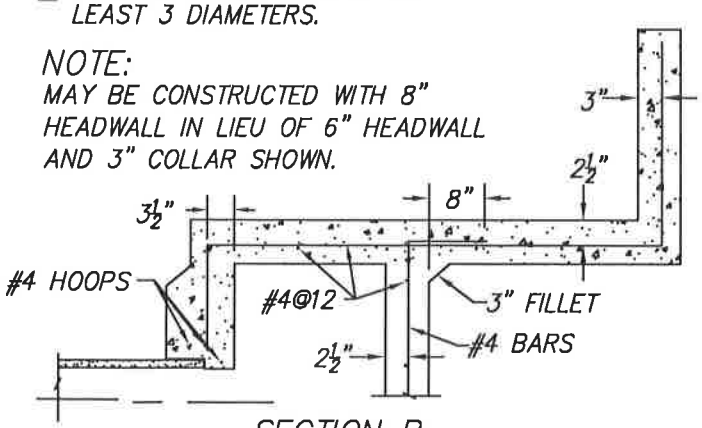
ELEVATION E

ESTIMATE QUANTITIES

CONCRETE.....3.9 CU. YDS.
REINFORCEMENT STEEL.....300 LBS.

NOTE:
SPECIAL DESIGN IS REQUIRED WHERE INCOMING PIPE DIAMETER IS GREATER THAN THE INSIDE DEPTH OF BAFFLE.

NOTE:
MAY BE CONSTRUCTED WITH 8" HEADWALL IN LIEU OF 6" HEADWALL AND 3" COLLAR SHOWN.



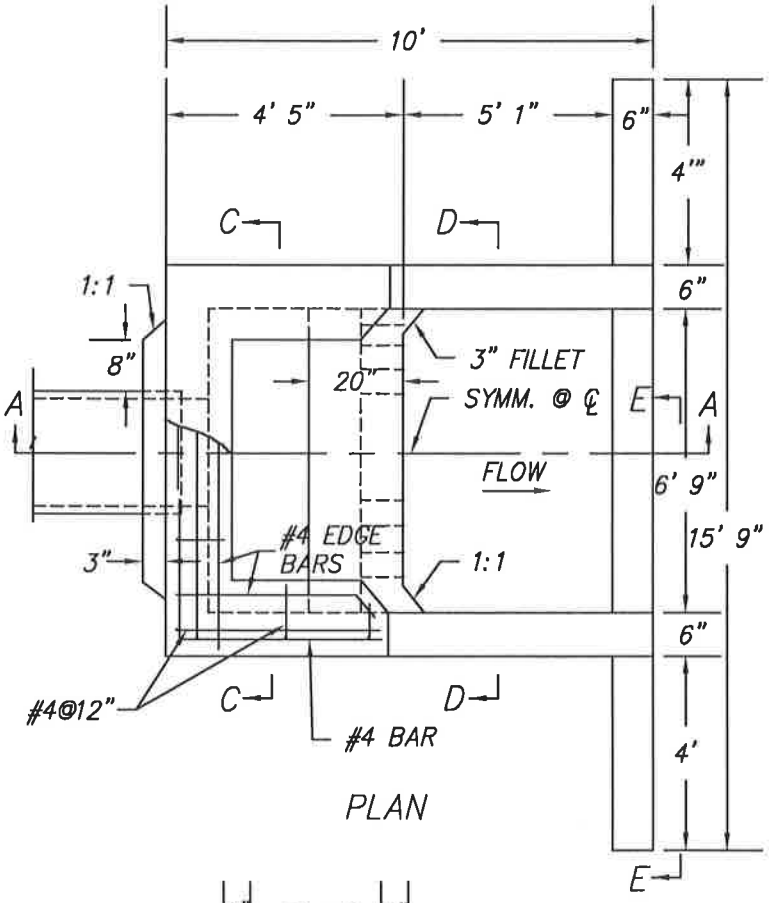
SECTION B

CITY OF FOLSOM

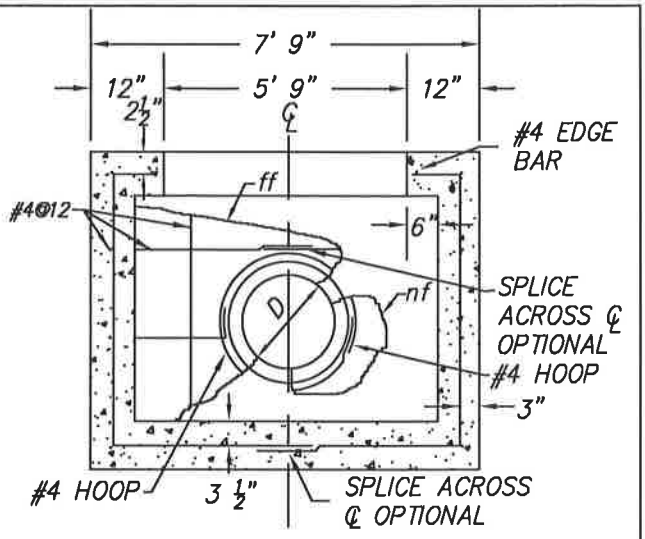
STORM DRAIN OUTFALL ENERGY DISSIPATER TYPE 3

SCALE: NONE
DATE: FEBRUARY 2020

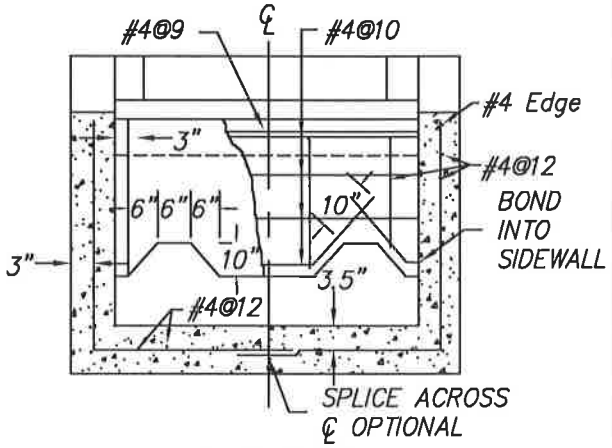
SD-36



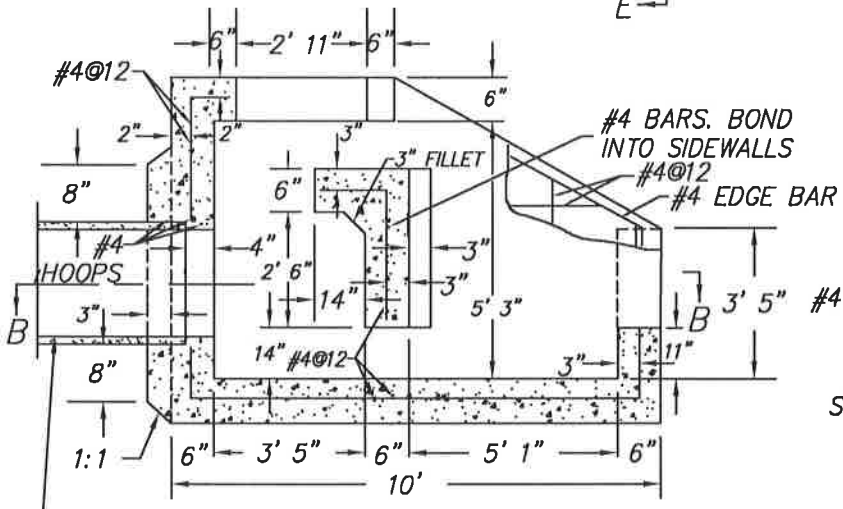
PLAN



SECTION C

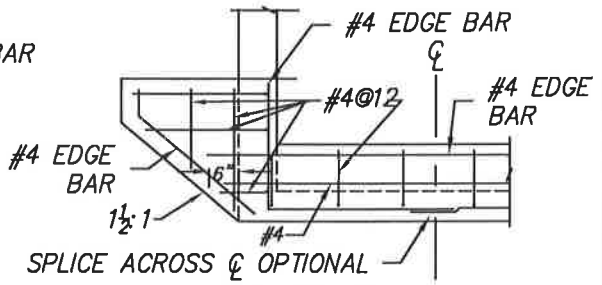


SECTION D



SECTION A

S=0 FOR A DISTANCE OF AT LEAST 3 DIAMETERS.



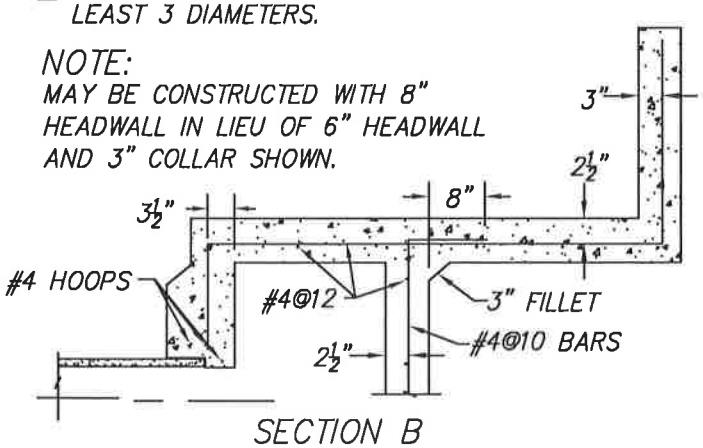
ELEVATION E

ESTIMATE QUANTITIES

CONCRETE.....5.7 CU. YDS.
REINFORCEMENT STEEL.....460 LBS.

NOTE:
SPECIAL DESIGN IS REQUIRED WHERE INCOMING PIPE DIAMETER IS GREATER THAN THE INSIDE DEPTH OF BAFFLE.

NOTE:
MAY BE CONSTRUCTED WITH 8" HEADWALL IN LIEU OF 6" HEADWALL AND 3" COLLAR SHOWN.



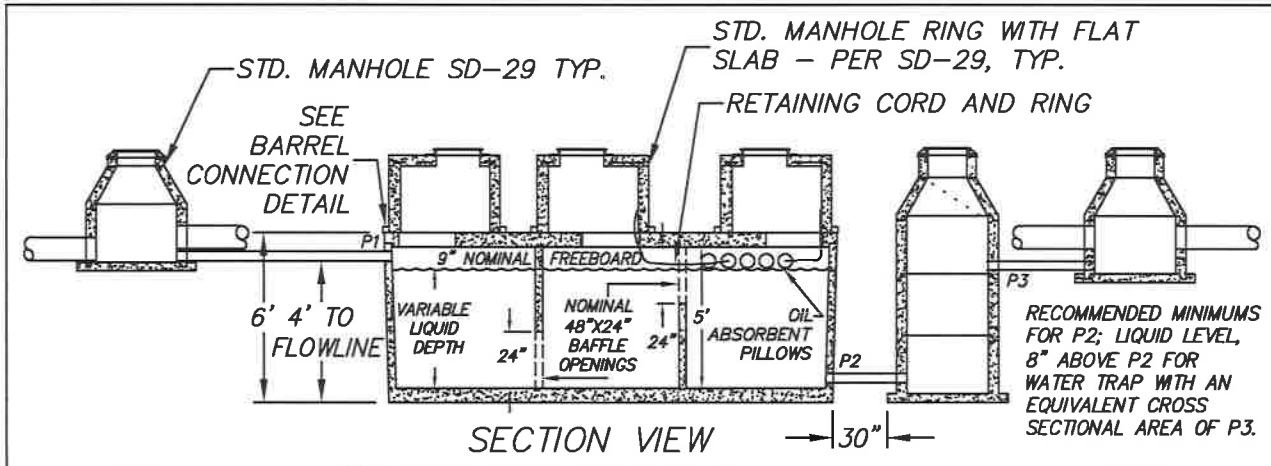
SECTION B

CITY OF FOLSOM

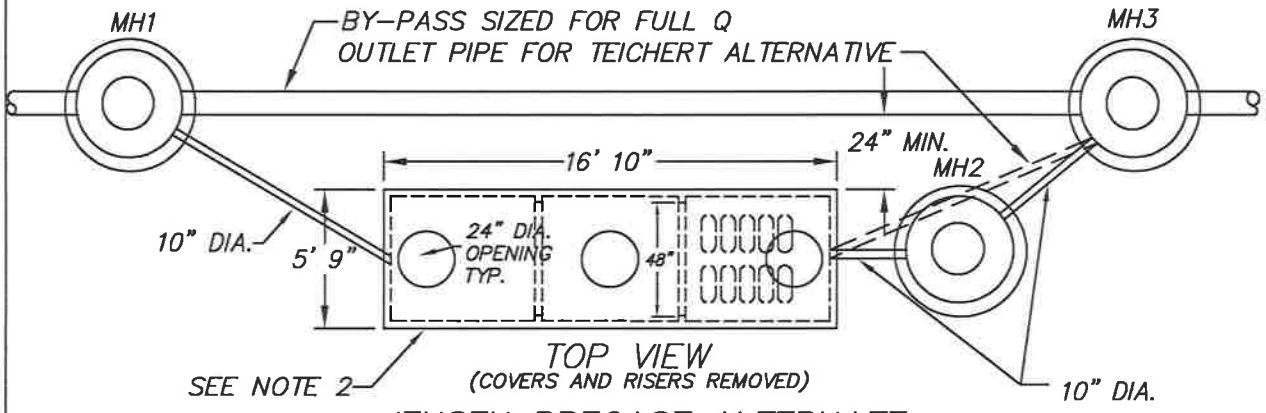
STORM DRAIN OUTFALL ENERGY DISSIPATER TYPE 4

SCALE: NONE
DATE: FEBRUARY 2020

SD-37

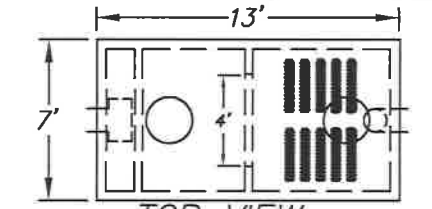


SECTION VIEW

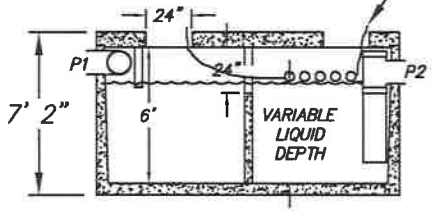


TOP VIEW
(COVERS AND RISERS REMOVED)

JENSEN PRECAST ALTERNATE

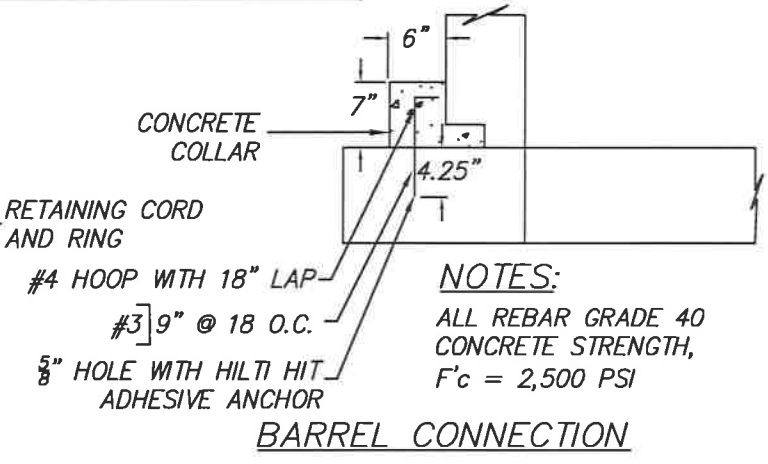


TOP VIEW
(COVERS & RISERS REMOVED)



SECTION VIEW

TEICHERT PRECAST ALTERNATE



BARREL CONNECTION

NOTES:

ALL REBAR GRADE 40 CONCRETE STRENGTH, F'c = 2,500 PSI

NOTES:

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF FOLSOM STANDARD CONSTRUCTION SPECIFICATIONS AND THE MANUFACTURER'S RECOMMENDATIONS.
2. THE INTERCEPTOR VAULT SHOWN SHALL BE MANUFACTURED BY JENSEN PRE CAST JPHV-2500, TEICHERT PRECAST, TPHV-2500 OR APPROVED EQUAL.
3. MANHOLES ASSOCIATED WITH THE INTERCEPTOR SHALL NOT HAVE SUMP OR WEEP HOLES.
4. OIL ABSORBENT PILLOWS TO BE EQUIPPED WITH RING AND CORD, SECURED TO OR UNDER FRAME AND COVER FOR HAND ACCESS BY OTHERS. CONTACT MANUFACTURER FOR INSTALLATION INSTRUCTIONS.
5. STRUCTURAL DESIGN TO BE PROVIDED BY INTERCEPTOR VAULT MANUFACTURER.
6. MANHOLE #2 IS NOT REQUIRED FOR TEICHERT PRECAST ALTERNATE.
7. INTERCEPTORS SHALL BE PLACED ON A MINIMUM OF 4" OF 3/4" CRUSHED ROCK.
8. ALL CONNECTIONS TO INTERCEPTORS SHALL BE MACHINED CORED AND SEALED WITH EXPANSIVE GROUT APPROVED BY THE PUBLIC WORKS DEPARTMENT.
9. MAXIMUM HEIGHT OF GRADE RINGS IS 24".

CITY OF FOLSOM

HIGH RATE STORM DRAIN INTERCEPTOR

SCALE: NONE
DATE: FEBRUARY 2020

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