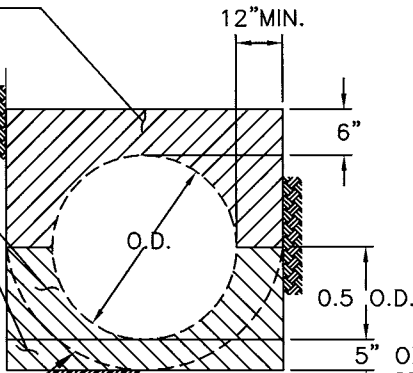


Standard Drawings		
Section 9 – Storm Drainage		
Drawing	Sheets	Description
9-1	1	Pipe Bedding and Initial Backfill (Storm Drainage)
9-2	1 of 2	Standard Stormdrain Manhole
9-2	2 of 2	Standard Stormdrain Manhole Notes
9-3	1	Gray Cast Iron Standard 24” Manhole Frame & Cover
9-4	1	Gray Cast Iron Standard 36” Manhole Frame & Cover
9-5	1	Grate Type Manhole Cover
9-6	1 of 2	Grated Curb Inlet
9-6	2 of 2	Grated Curb Inlet
9-7	1	Pipe Connections
9-8	1 of 2	Lined Channel Section
9-8	2 of 2	Lined Channel Section
9-9	1	Typical Ramp and Transition Detail
9-10	1	Erosion Control Pipe Discharge
9-11	1	Erosion Control Ditch Discharge
9-12	1 of 2	Chain Link Fence
9-12	2 of 2	Chain Link Fence
9-13	1	Utility Stream Crossing
9-14	1	Flexible Connector Pipe to Manhole Detail
9-15	1 of 4	Detention Basin Outflow Structure Elevation
9-15	2 of 4	Detention Basin Outflow Structure Trash Screen Enclosure
9-15	3 of 4	Detention Basin Slide Gate Restrictor Outflow Control Structure
9-15	4 of 4	Detention Basin Shear Gate Restrictor Outflow Control Structure

INITIAL BEDDING AND BACKFILL
CONFORMING TO THE COUNTY'S
STANDARDS

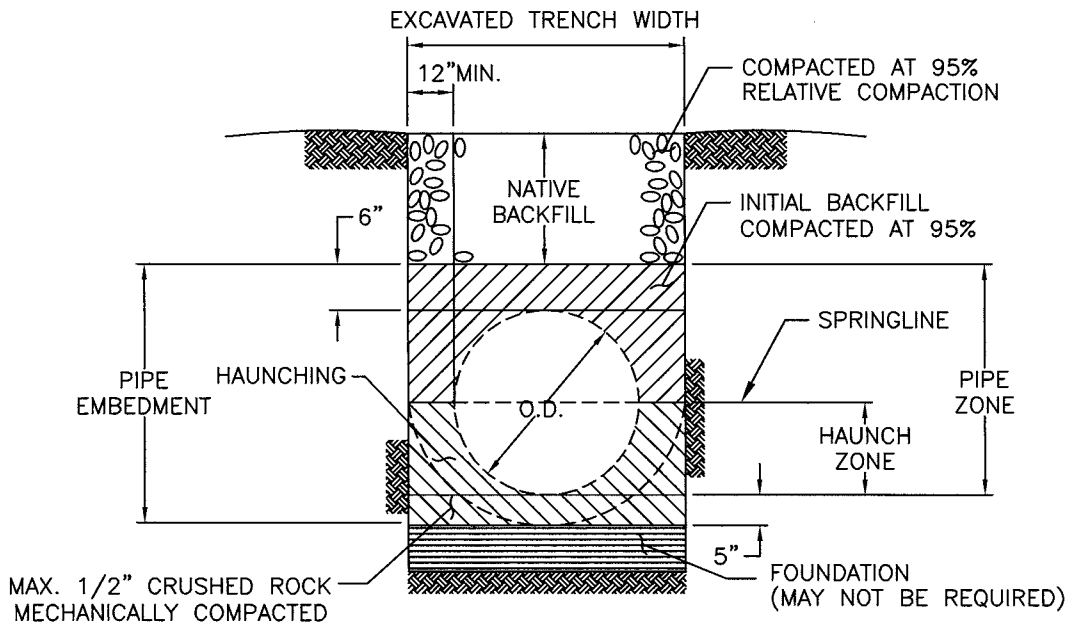
BEDDING AND INITIAL
BACKFILL MATERIAL. INSTALL
AND MECHANICALLY COMPACT
IN 6-INCH LAYERS.

ALTERNATE TRENCH



5" OF MAX. 1/2"
CRUSHED ROCK
MECHANICALLY COMPACTED

**PIPES 24" OR GREATER
IN DIAMETER**



**PIPES LESS THAN 24"
IN DIAMETER**

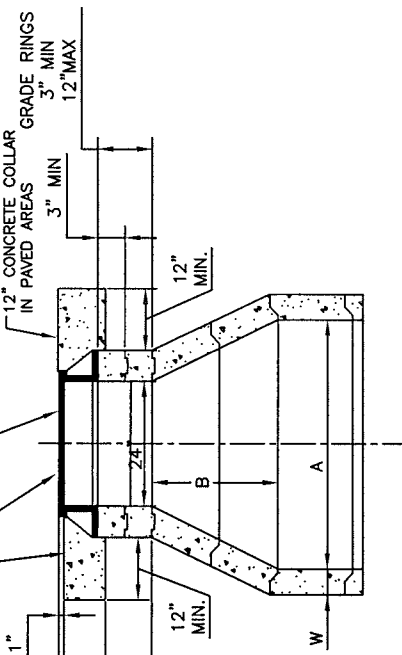
NOTES:

1. INITIAL BACKFILL MATERIAL SHALL BE THOROUGHLY COMPACTED AROUND PIPE.
2. TRENCH WIDTH SHALL CONFORM TO SECTION 9.
3. BEDDING AND INITIAL BACKFILL MATERIAL SHALL BE 1/2" CRUSHED ROCK, OR APPROVED EQUIVALENT.
4. REFER TO DRAWING 4-17 FOR TRENCH DETAILS IN IMPROVED AREAS.
5. HDPE PIPE, IF APPROVED BY COUNTY ENGINEER, SHALL BE BACKFILLED WITH 2-SACK LEAN CONCRETE BACKFILL MATERIAL.

COUNTY OF YOLO PLANNING AND PUBLIC WORKS DEPARTMENT		DATE: 08/05/08
PIPE BEDDING AND INITIAL BACKFILL (STORM DRAINAGE)		SHEET # 1 OF 1
<i>Parras Kakkas</i> COUNTY ENGINEER No. C42401		28 AUG 08 APPROVAL DATE
		DRAWING #: 9-1 NOT TO SCALE

IN PAVED AREAS SET COVER AND COLLAR 1/4" BELOW PAVEMENT, IN UNPAVED AREAS SET 1" ABOVE ADJACENT GRADE.

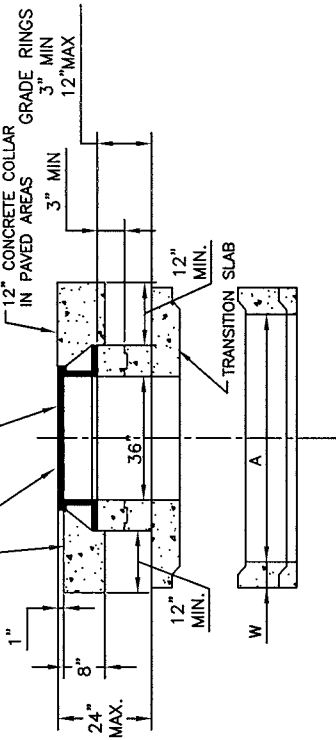
12" CONCRETE COLLAR W/2-#4 HOOPS IN UNPAVED AREAS



CONE TOP

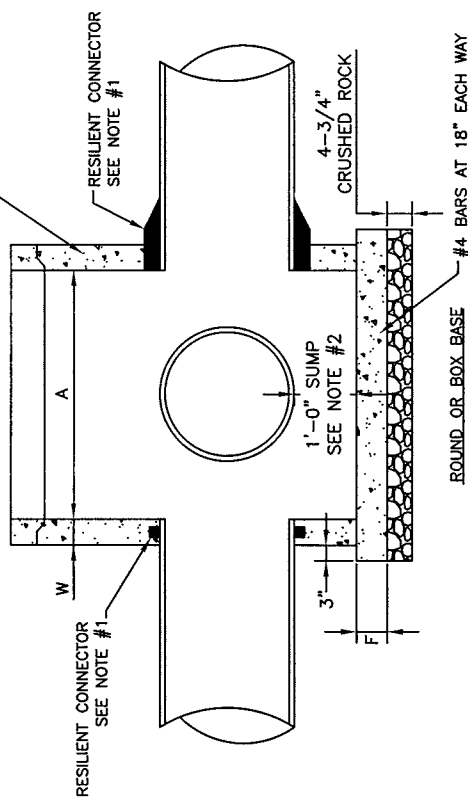
IN PAVED AREAS SET COVER AND COLLAR 1/4" BELOW PAVEMENT, IN UNPAVED AREAS SET 1" ABOVE ADJACENT GRADE.

12" CONCRETE COLLAR W/2-#4 HOOPS IN UNPAVED AREAS



FLAT TOP SLAB

PRECAST REINFORCED MANHOLE SECTIONS (REBAR NOT SHOWN)

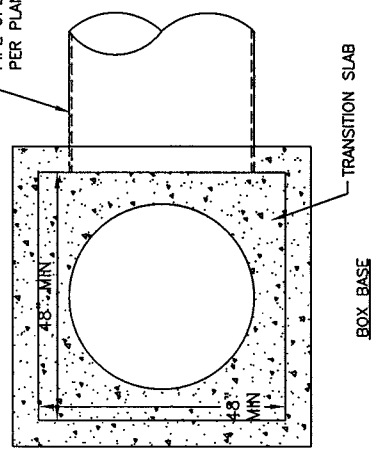


ROUND OR BOX BASE #4 BARS AT 18" EACH WAY

TABLE OF MINIMUM DIMENSIONS FOR ROUND MANHOLES

M.H	A	B	W	F
48"	48"	18"	5"	7" MIN.
60"	60"	30"	6"	9" MIN.

PIPE OPENINGS PER PLAN AS REQ'D.



BOX BASE

TRANSITION SLAB

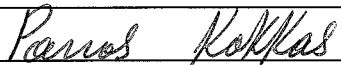

COUNTY OF YOLO
 PLANNING AND PUBLIC WORKS DEPARTMENT
 STANDARD STORMDRAIN MANHOLE

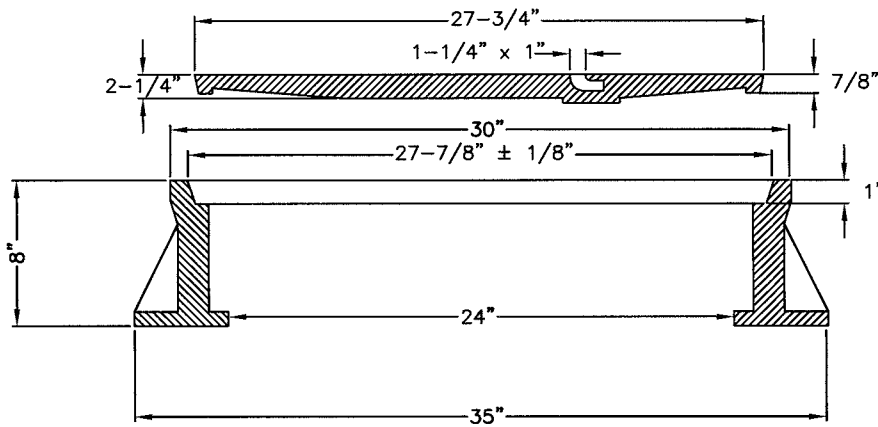
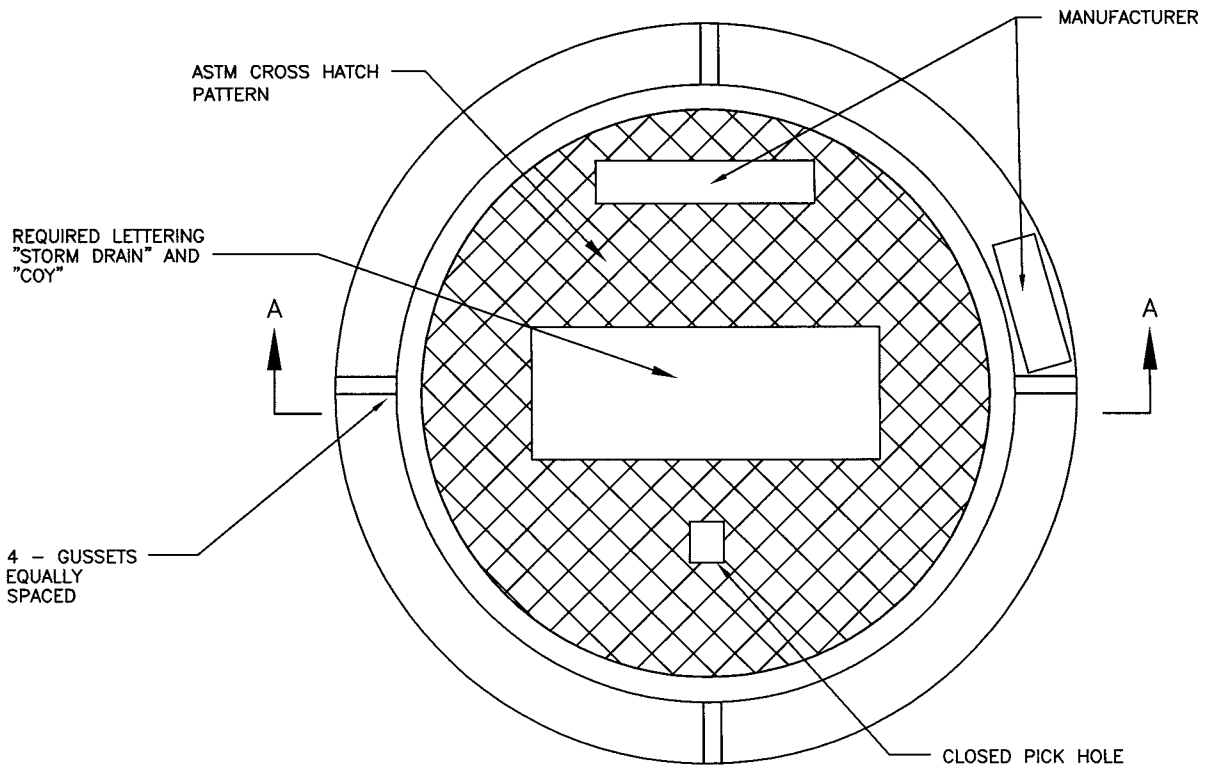
DATE: 08/05/08
 SHEET # 1 OF 2
 DRAWING # 9-2
 NOT TO SCALE

APPROVAL DATE: 28 AUG. 08
 COUNTY ENGINEER No. C42401

NOTES:

1. ON ALL PIPE UP TO 30" I.D., USE FLEXIBLE COMPRESSION GASKET OR BOOT CONNECTOR CONFORMING TO ASTM C-923. CONNECTION SHALL BE WATER AND SOIL TIGHT. FOR PIPES GREATER THAN 30" I.D., BASE MAY BE CAST-IN-PLACE AND A WATER STOP CONFORMING TO ASTM C-923 SHALL BE USED.
2. SUMP SHALL BE 1'-0" DEEP, MEASURED FROM INVERT OF OUTFALL PIPE. SUMP NOT REQUIRED IF OUTFALL IS 24" I.D. OR LARGER. SUMPS SHALL NOT BE ALLOWED OUT OF THE COUNTY RIGHT OF WAY.
3. RISER SECTIONS, CONES, AND ADJUSTING RINGS SHALL CONFORM TO ASTM C-478.
4. ALL JOINTS SHALL BE MADE WITH PREFORMED PLASTIC JOINT SEALING COMPOUND OR PRE-LUBRICATED GASKET. FOLLOWING INSTALLATION GROUT ALL INTERIOR AND EXTERIOR JOINTS.
5. CONCENTRIC COMPONENTS SHALL BE USED UNLESS OTHERWISE SPECIFIED ON THE PLANS.
6. PRECAST MANHOLES SHALL BE SIZED TO PROVIDE THE FOLLOWING: THE ANNULAR SPACE ON THE INSIDE OF THE MANHOLE BARREL BETWEEN THE CORED PIPE CONNECTION HOLES SHALL BE A MINIMUM OF 10-INCHES. IF THE CONNECTION HOLE IS CAST MONOLITHICALLY WITH THE MANHOLE BARREL THE MEASUREMENT SHALL BE TAKEN FROM THE FINISHED CONCRETE CONNECTION SURFACE.
7. CONSTRUCT WITH FLAT SLAB-TOP WHEN HEIGHT IS TOO SHALLOW TO CONSTRUCT WITH CONES.
8. FOR THE SLAB REDUCER OF THE BOX MANHOLE (BOX TO ROUND DIAMETER), THE DIAMETER OF THE ROUND REDUCER SHALL BE A MAX OF 12" SMALLER THAN THE INSIDE BOX WIDTH.
9. FLAT SLAB TOP MANHOLES SHALL HAVE A 36" MANHOLE FRAME AND COVER.

COUNTY OF YOLO PLANNING AND PUBLIC WORKS DEPARTMENT		DATE: 08/05/08
STANDARD STORMDRAIN MANHOLE		SHEET # 2 OF 2
 COUNTY ENGINEER No. C42401	 APPROVAL DATE	DRAWING #: 9-2 NOT TO SCALE

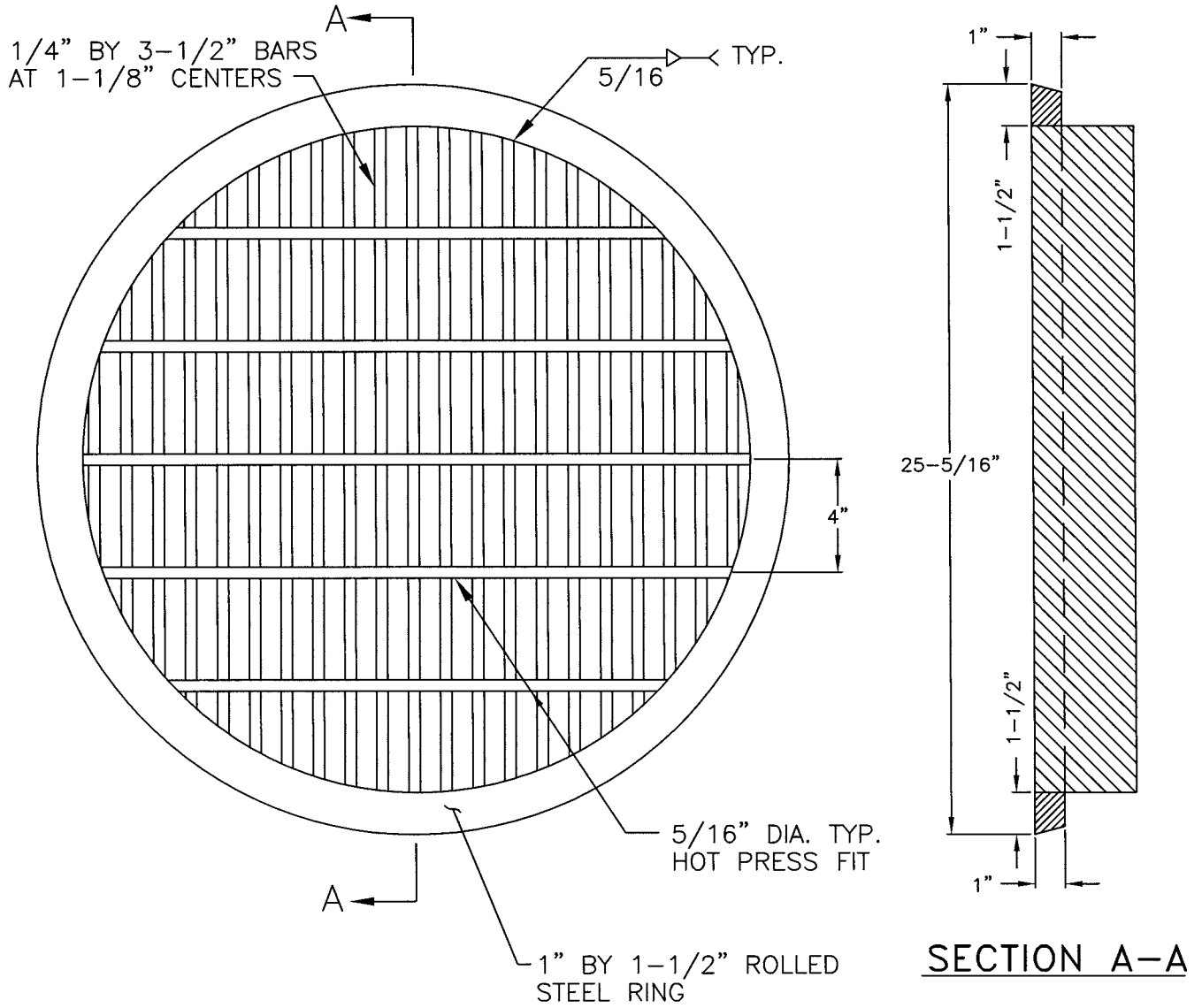


SECTION A-A

NOTES:

1. ALL CASTINGS TO CONFORM TO ASTM A48, CLASS 35B. D&L FOUNDRY A-1018, OR EQUIVALENT
2. FRAME AND COVER TO MEET H-20 LOAD SPECIFICATIONS.
3. MACHINED HORIZONTAL AND VERTICAL BEARING SURFACES NOT TO EXCEED 1/64" TOLERANCE.
4. FRAME AND COVER SHALL HAVE A COATING OF BITUMINOUS MATERIAL.
5. LOCKING COVER TYPE FRAME AND COVERS SHALL BE USED IN EASEMENT AREAS UNLESS OTHERWISE APPROVED.
6. COVER SHALL BE LABELED AS REQUIRED BY SERVICE DISTRICT. COUNTY COVERS SHALL BE DENOTED "COY".

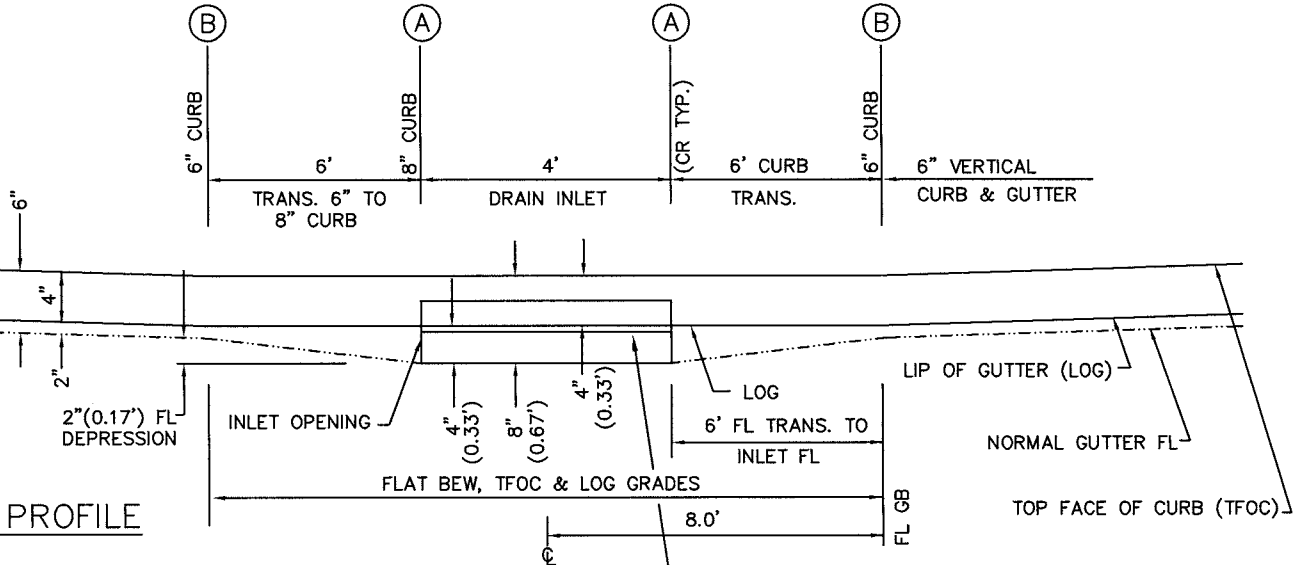
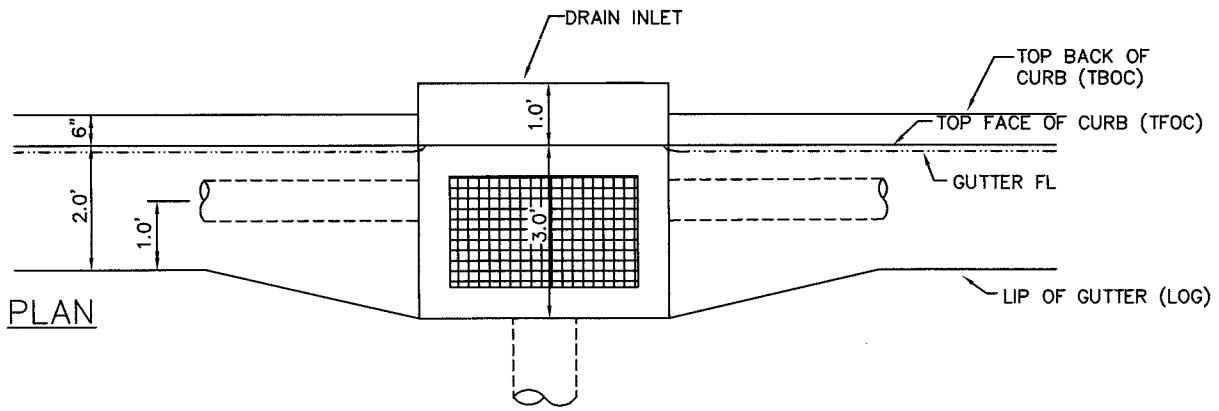
COUNTY OF YOLO PLANNING AND PUBLIC WORKS DEPARTMENT		DATE: 08/05/08
GRAY CAST IRON STANDARD 24" MANHOLE FRAME AND COVER		SHEET # 1 OF 1
<i>Panos Korkkas</i> COUNTY ENGINEER No. C42401	28 AUG 08 APPROVAL DATE	DRAWING #: 9-3 NOT TO SCALE



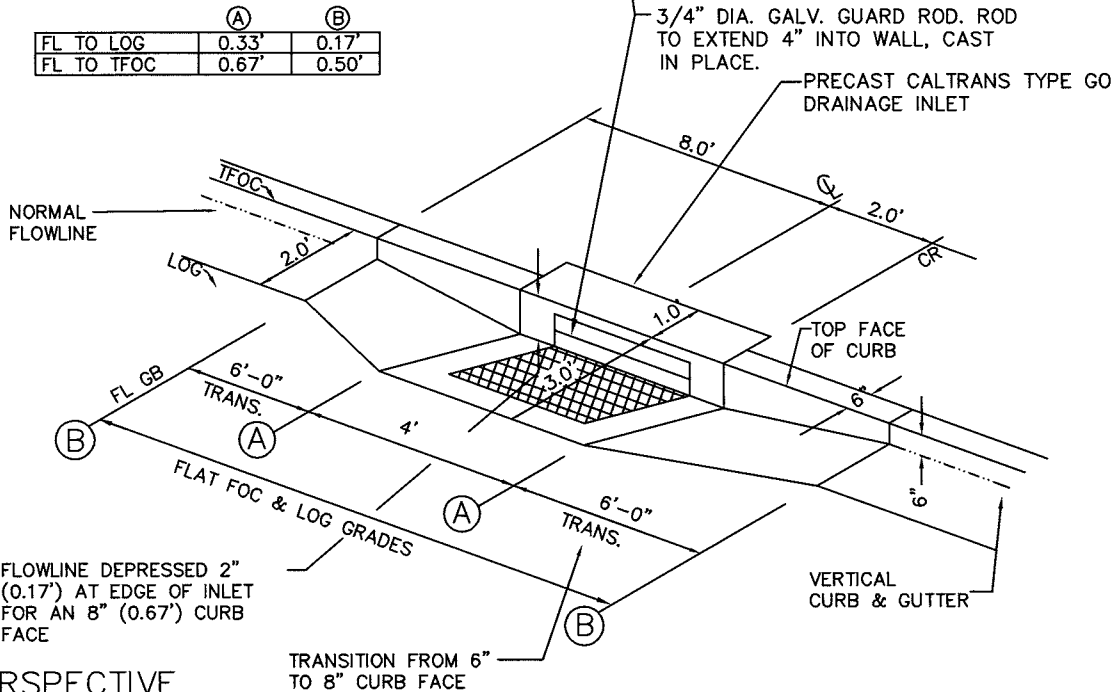
NOTES:

1. MANHOLE COVER SHALL FIT FRAME SHOWN ON DRAWING 9-2.
2. SEATING SURFACES SHALL BE MACHINED AS SHOWN IN DETAIL ON DRAWING 9-2.
3. THIS COVER MAY BE USED ONLY WITH APPROVAL OF THE COUNTY ENGINEER.
4. GALVANIZE AFTER FABRICATION PER ASTM 123.
5. PROVIDE BICYCLE PROOF AND ADA COMPLIANT GRATE.

COUNTY OF YOLO PLANNING AND PUBLIC WORKS DEPARTMENT		DATE: 08/05/08
GRATE TYPE MANHOLE COVER		SHEET # 1 OF 1
<i>Parras Kakkas</i> COUNTY ENGINEER No. C42401	28 AUG. 08 APPROVAL DATE	DRAWING #: 9-5 NOT TO SCALE



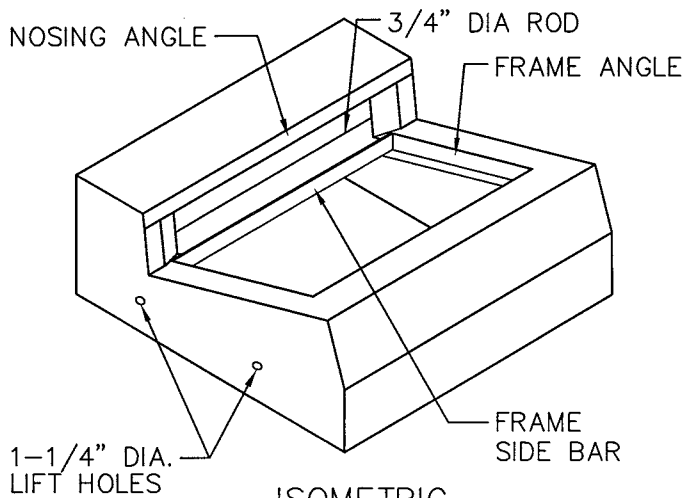
	(A)	(B)
FL TO LOG	0.33'	0.17'
FL TO TFOC	0.67'	0.50'



PERSPECTIVE

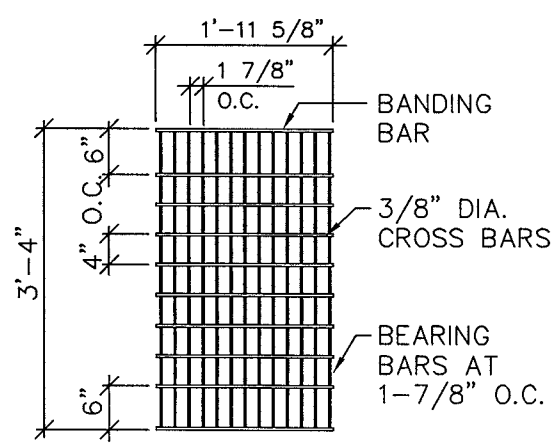
NOTE:
1. PROVIDE NPDES LOGO IN TOP OF CURB. "NO DUMPING DRAINS TO WATERWAY".

COUNTY OF YOLO PLANNING AND PUBLIC WORKS DEPARTMENT		DATE: 08/05/08
GRATED CURB INLET		SHEET # 1 OF 2
<i>Panos Kofkas</i> COUNTY ENGINEER No. C42401		DRAWING #: 9-6 NOT TO SCALE
28 AUG. 08 APPROVAL DATE		

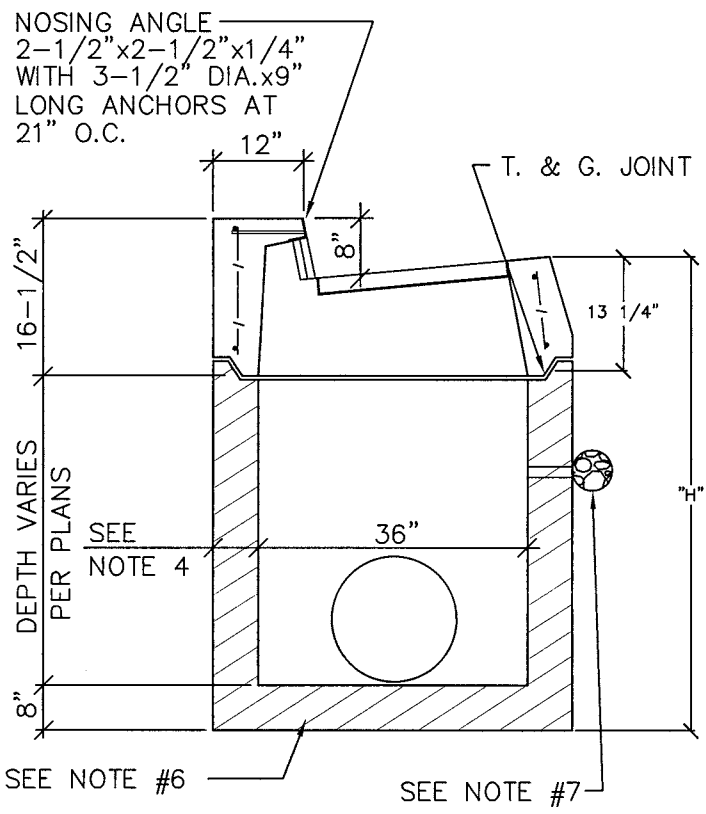


ISOMETRIC

PRECAST GO TOP



GRATE PLAN

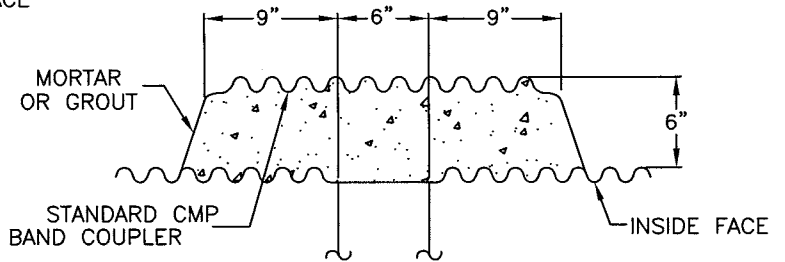
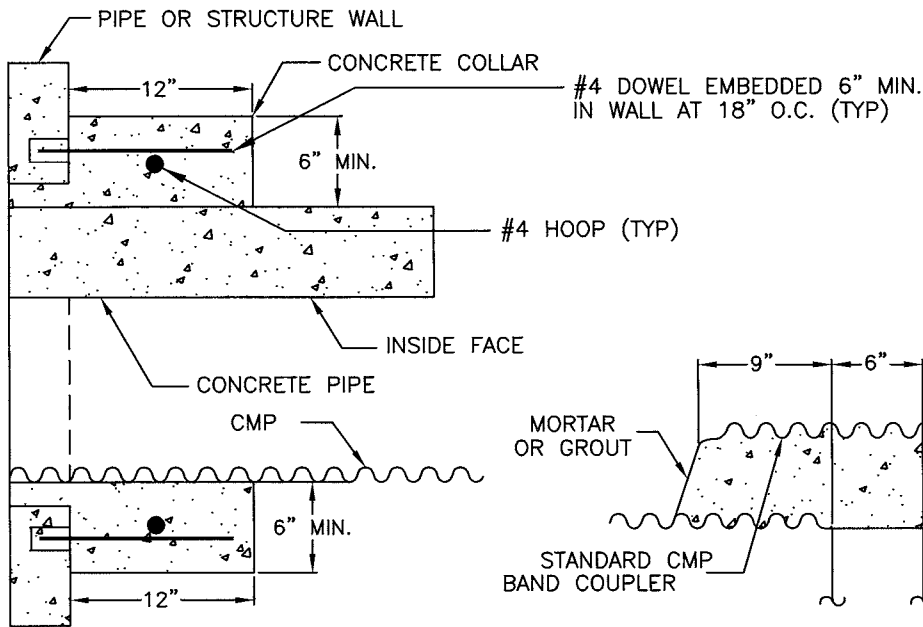
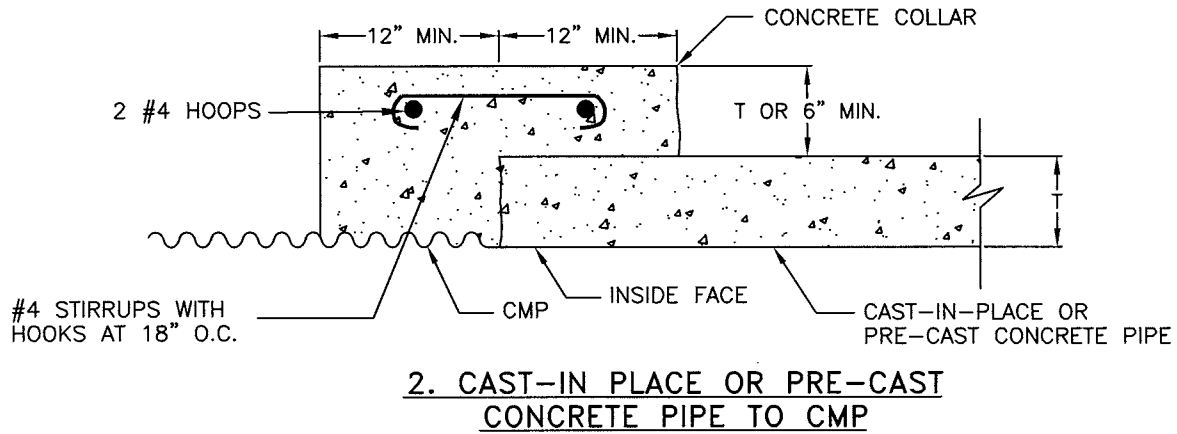
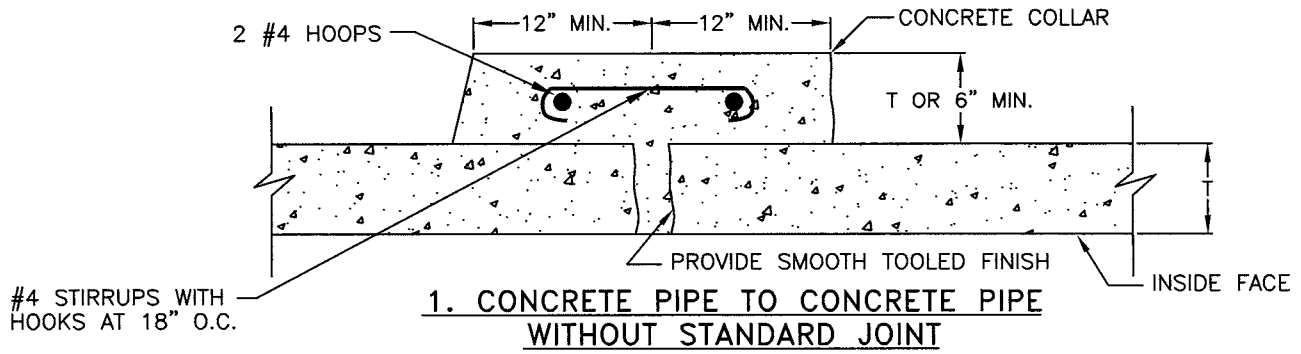


SECTION

GRATE (24-13)
13 BEARING BARS, 3-1/2"x1/4"
2 BANDING BARS, 2-1/2"x1/4"
FRAME
4"x3"x1/4" ANGLES
3-1/2"x1/4" SIDE BARS

- NOTES:
1. CONCRETE SHALL TEST TO 3000 PSI AT 28 DAYS.
 2. FRAME, GRATE AND NOSING ANGLE SHALL BE HOT DIP GALVANIZED. AFTER FABRICATION PER ASTM SPEC. A-123, UNLESS SPEC'D OTHERWISE.
 3. WEIGHT OF PRECAST TOP WITHOUT GRATE = 1350 LBS. WEIGHT OF GRATE = 141 LBS.
 4. WHERE "H" IS 8'-0" OR LESS THE WALL THICKNESS SHALL BE 6". WHERE "H" IS GREATER THAN 8'-0" THE WALL THICKNESS SHALL BE 8".
 5. REINFORCING OF PRECAST BASE SHALL BE PER CALTRANS STANDARD PLAN D-74B.
 6. SET PRECAST INLET ON 6" LAYER OF MECHANICALLY COMPACTED 3/4" CRUSHED ROCK COMPACTED TO 95% OVER 8" SUBGRADE COMPACTED TO 95%.
 7. PROVIDE THREE 2" DIAMETER SUBSURFACE DRAINS IN FACE OF INLET LOCATED 2" ABOVE STREET SUBGRADE. PROVIDE 1 CUBIC FOOT OF DRAIN ROCK ENCLOSED IN 12oz GEOTEXTILE WRAP AT EACH HOLE.

COUNTY OF YOLO PLANNING AND PUBLIC WORKS DEPARTMENT		DATE: 08/05/08
DROP INLET TYPE "GO" VERTICAL CURB AND GUTTER ONLY		SHEET # 2 OF 2
<i>Panos Kakkas</i> COUNTY ENGINEER No. C42401		DRAWING #: 9-6 NOT TO SCALE
<i>28 AUG. 08</i> APPROVAL DATE		



3. CONCRETE PIPE, CMP INTO EXISTING PIPE OR STRUCTURE

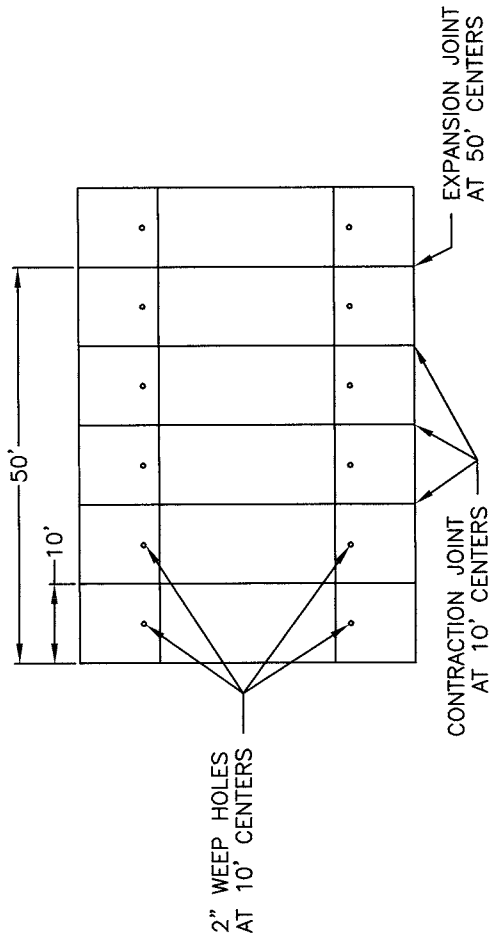
4. PIPES OF DISSIMILAR METALS

NOTES:

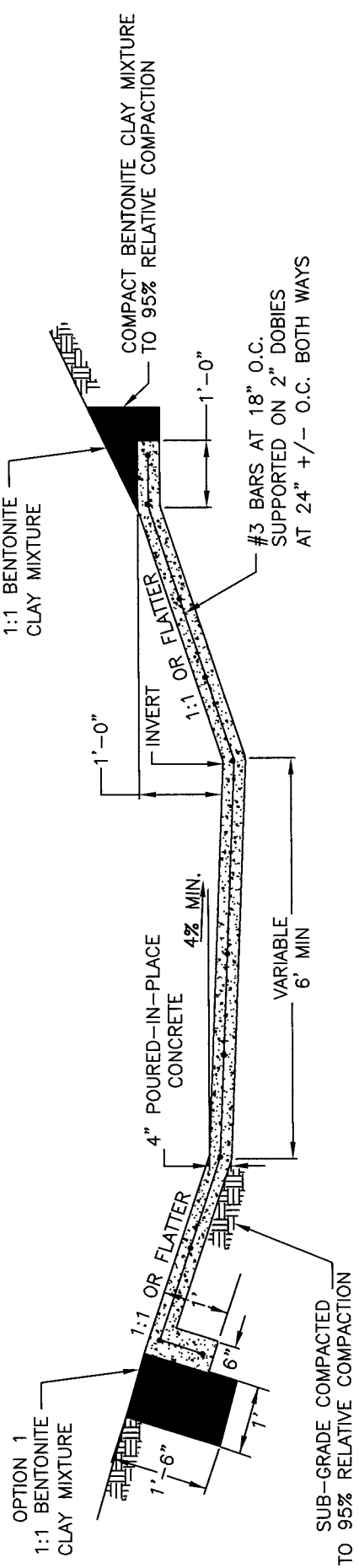
1. PIPE CONNECTIONS SHOWN ON THIS PAGE MAY BE USED ONLY WHEN APPROVED BY THE COUNTY ENGINEER.

2. USE MANUFACTURERS STANDARD COUPLINGS WHERE POSSIBLE.

COUNTY OF YOLO		DATE:
PLANNING AND PUBLIC WORKS DEPARTMENT		08/05/08
PIPE CONNECTIONS		SHEET #
		1 OF 1
<i>Panos Kokkas</i>		DRAWING #:
COUNTY ENGINEER No. C42401		28 AUG. 08
		APPROVAL DATE
		9-7
		NOT TO SCALE

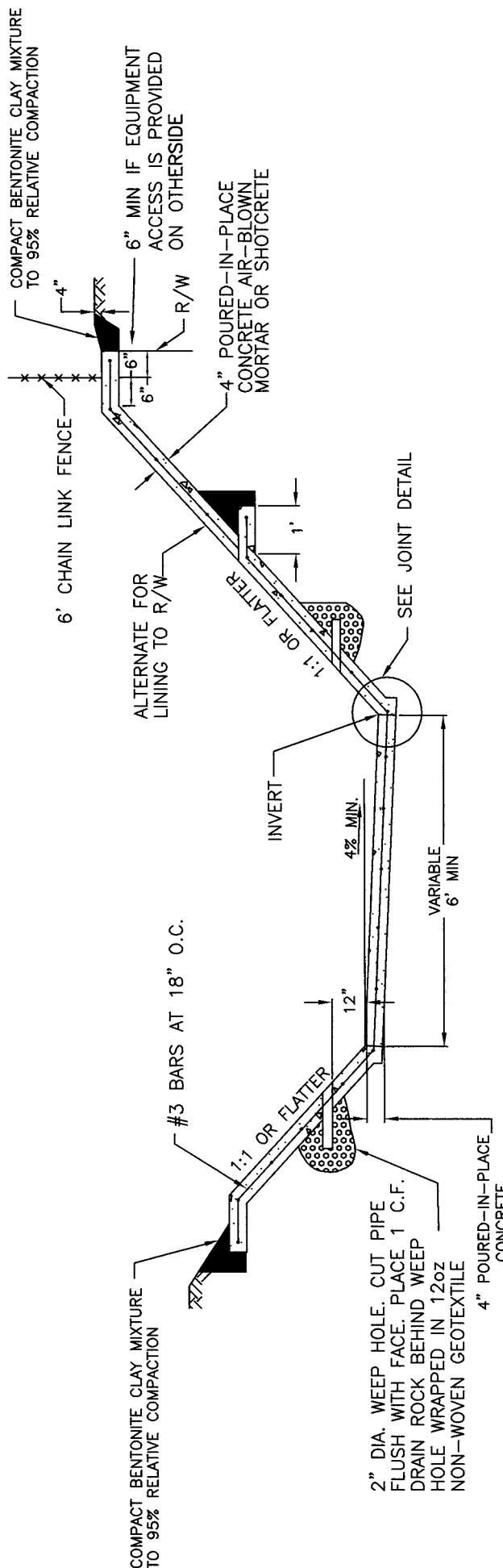


PLAN VIEW



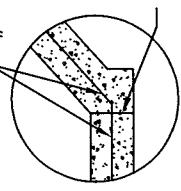
TYPICAL BOTTOM LINING

COUNTY OF YOLO PLANNING AND PUBLIC WORKS DEPARTMENT	DATE: 08/05/08
LINED CHANNEL SECTION	SHEET # 1 OF 2
<i>Parsons</i> COUNTY ENGINEER No. C42401	DRAWING #: 9-8 NOT TO SCALE
<i>28 Aug. 08</i> APPROVAL DATE	



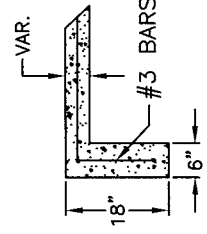
TYPICAL FULL LINING

#3 BARS AT 18" O.C.



JOINT DETAIL

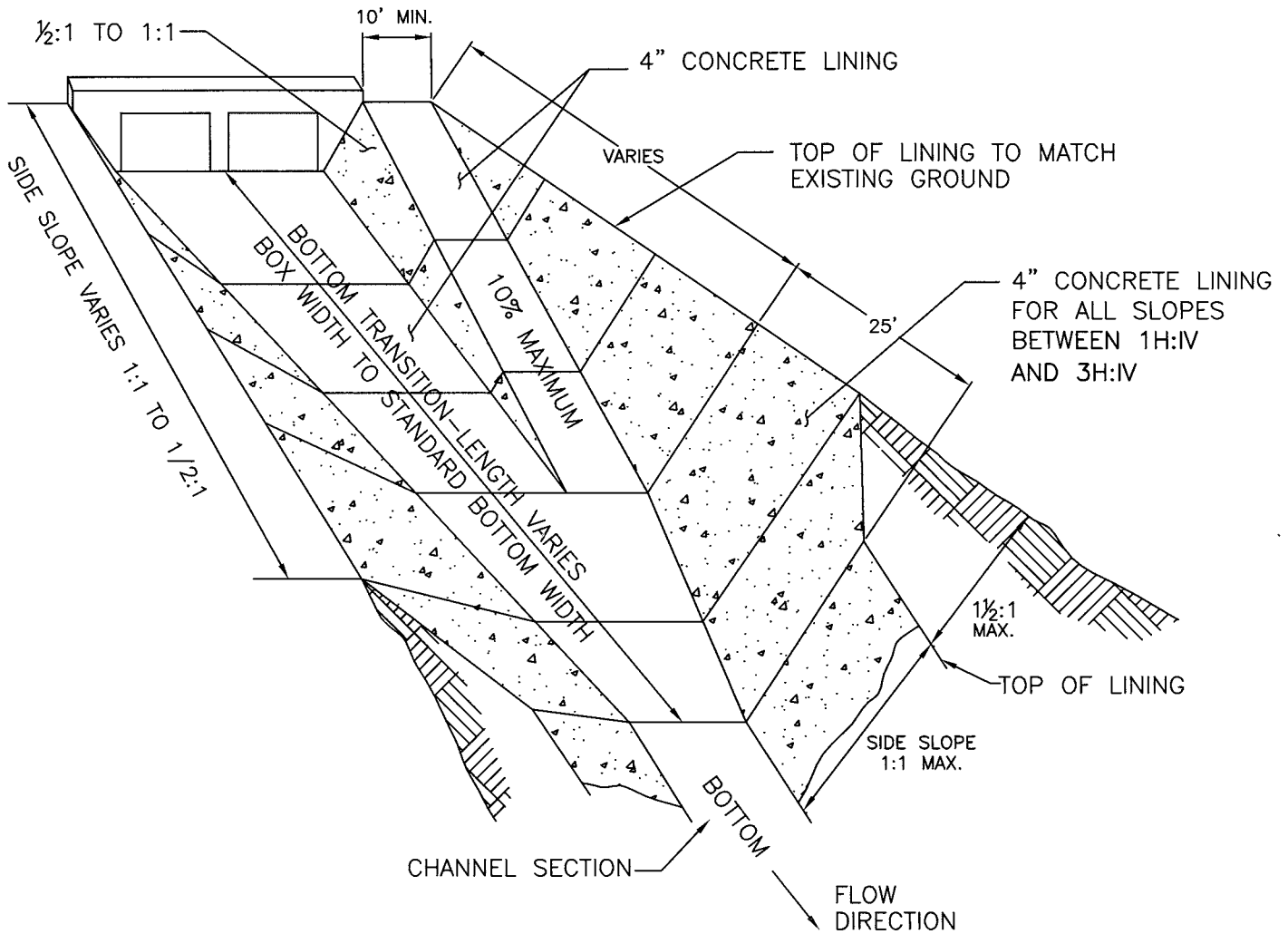
ALL REBAR SHALL BE SUPPORTED ON 2" DOBIES AT 24" +/- O.C. BOTH WAYS



CUTOFF WALL

TO BE PLACED ALONG ENTIRE END OF LINED SECTION AT BEGINNING AND AT END OF LINING

DATE: 08/05/08	COUNTY OF YOLO PLANNING AND PUBLIC WORKS DEPARTMENT
SHEET # 2 OF 2	LINED CHANNEL SECTION
DRAWING #: 9-8 NOT TO SCALE	APPROVAL DATE <i>Panos Kollas</i> 28 AUG 08 COUNTY ENGINEER No. C42401

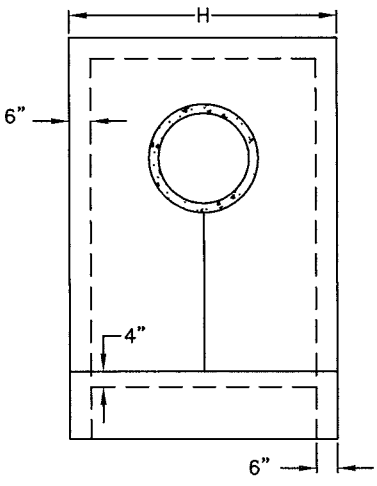


NOTES:

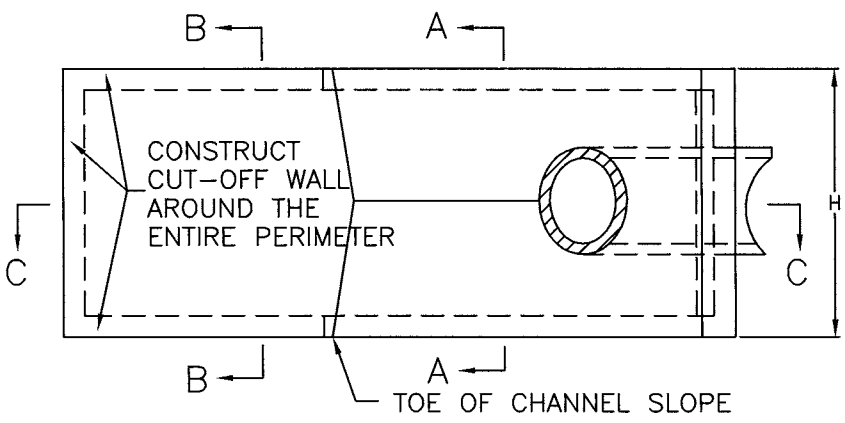
1. BOTTOM TRANSITION IS 25' MINIMUM LENGTH WITH NO RAMP.
2. WEEP HOLES AND JOINTS AS REQUIRED FOR ALL LINED CHANNEL SECTIONS.
3. LOW SIDE OF CHANNEL TO BE OPPOSITE RAMP.

COUNTY OF YOLO PLANNING AND PUBLIC WORKS DEPARTMENT		DATE: 08/05/08
TYPICAL RAMP AND TRANSITION DETAIL		SHEET # 1 OF 1
<i>Panos Kokkas</i> COUNTY ENGINEER No. C42401	28 AUG 08 APPROVAL DATE	DRAWING #: 9-9 NOT TO SCALE

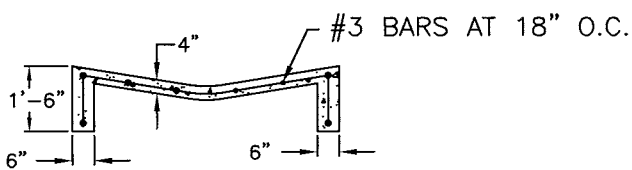
H=6'-0" MINIMUM
H=2X PIPE DIA. (3' TO 6')



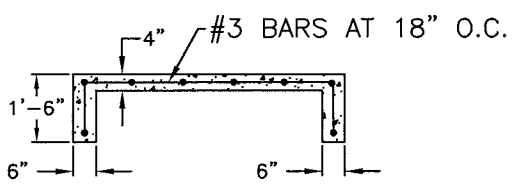
FRONT VIEW



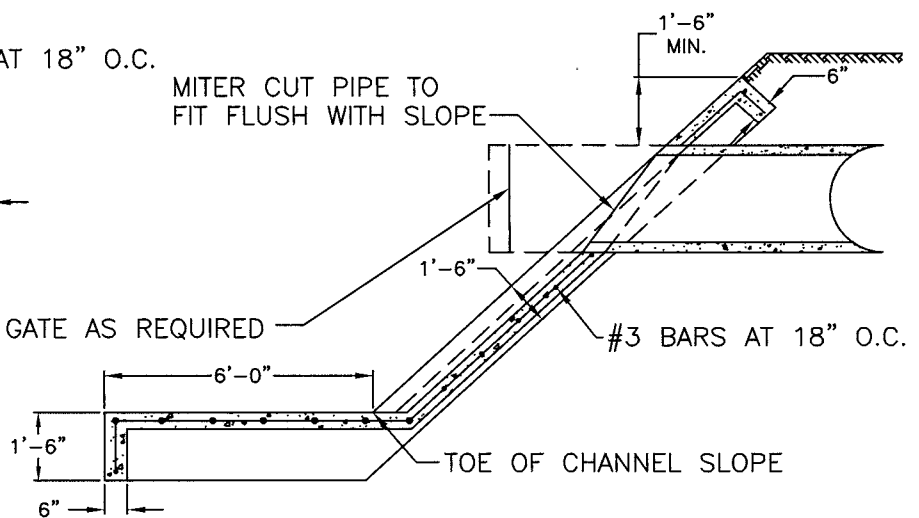
TOP VIEW



SECTION A-A



SECTION B-B

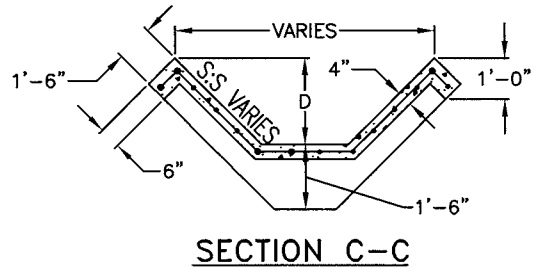
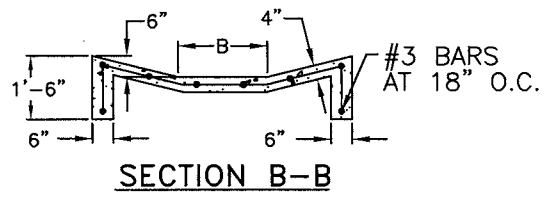
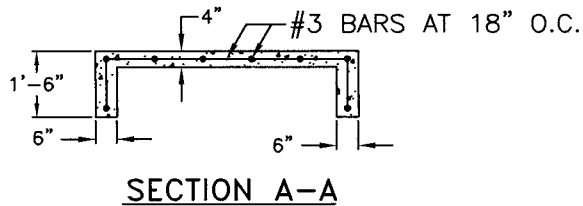
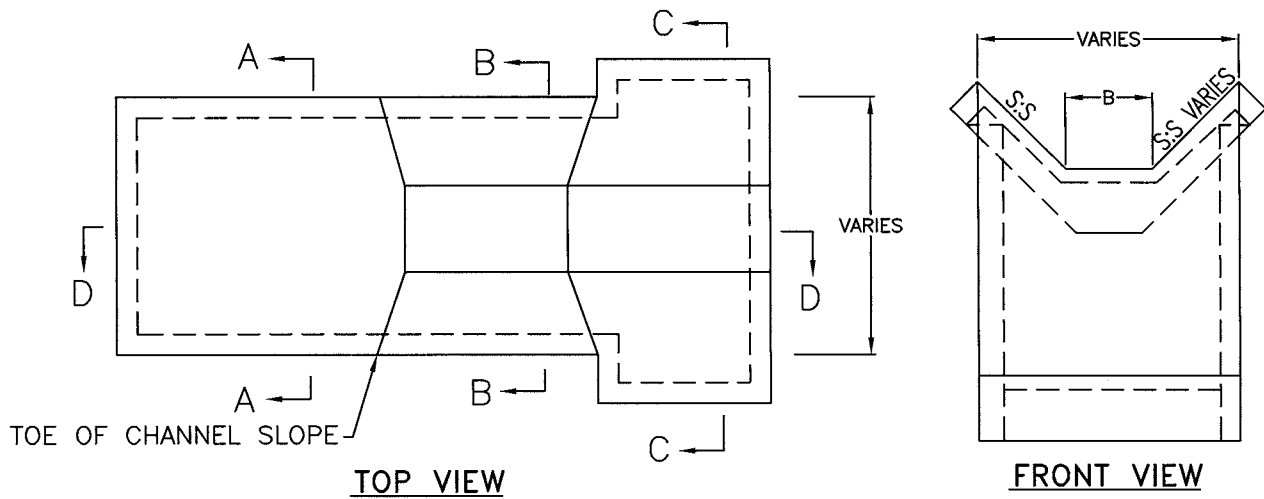


SECTION C-C

NOTES:

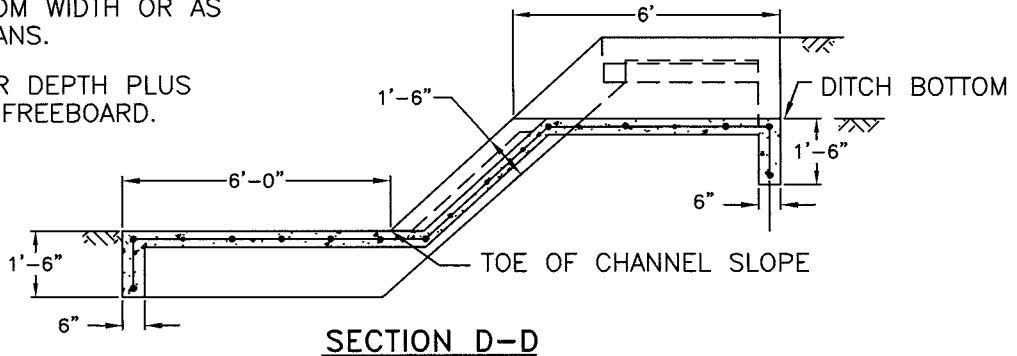
1. USE CLASS "B" CONCRETE OR GROUTED COBBLES AS SPECIFIED.
2. #3 BARS AT 18" CENTERS THROUGHOUT CONCRETE SUPPORTED ON 2" DOBIES AT 24" +/- O.C. BOTH WAYS.

COUNTY OF YOLO PLANNING AND PUBLIC WORKS DEPARTMENT		DATE: 08/05/08
EROSION CONTROL PIPE DISCHARGE		SHEET # 1 OF 1
<i>Parras Koffas</i> COUNTY ENGINEER No. C42401	28 AUG. 08 APPROVAL DATE	DRAWING #: 9-10 NOT TO SCALE

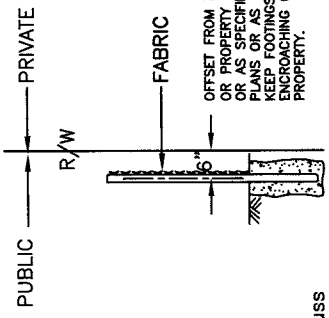


NOTES:

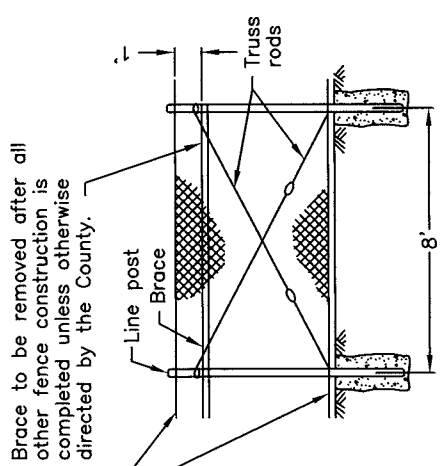
1. USE CLASS "B" CONCRETE.
2. #3 BARS AT 18" CENTERS THROUGHOUT CONCRETE SUPPORTED ON 2" DOBIES AT 24" +/- O.C. BOTH WAYS.
3. ON LINED CHANNELS APRON SHALL CONNECT TO SIDE LINING.
4. B=DITCH BOTTOM WIDTH OR AS SHOWN ON PLANS.
5. D=DITCH WATER DEPTH PLUS ONE FOOT OF FREEBOARD.



COUNTY OF YOLO PLANNING AND PUBLIC WORKS DEPARTMENT		DATE: 08/05/08
EROSION CONTROL DITCH DISCHARGE		SHEET # 1 OF 1
<i>Panos Kappas</i> COUNTY ENGINEER No. C42401	28 AUG. 08 APPROVAL DATE	DRAWING #: 9-11 NOT TO SCALE



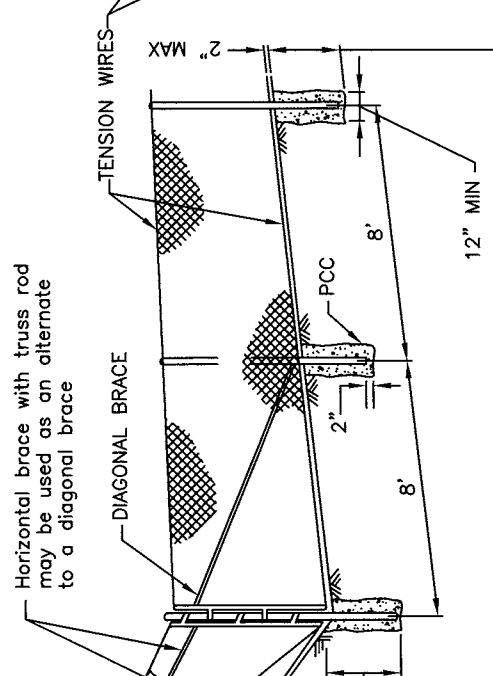
FENCE LOCATION



Line posts at 1000' maximum intervals braced and trussed in both directions except that this bracing and trussing may be omitted when the fabric is stretched by the equipment.

NOTES:

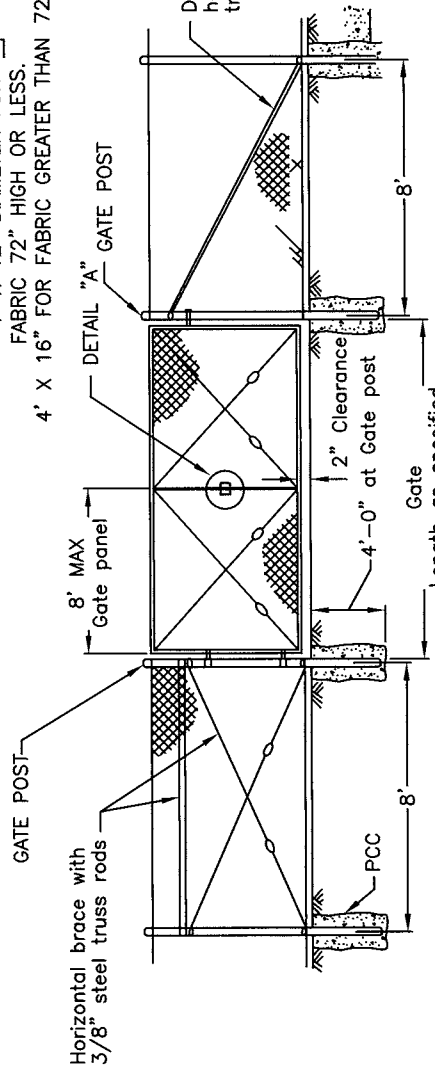
1. Chain link fabric shall be zinc coated steel manufactured in compliance with ASTM Standard A 392 with a 2 inch mesh of 9 gauge wire with knuckled selvage.
2. Tension wire shall be 7 gauge.
3. Where barbed wire is specified, it shall include 3 strands of galvanized 4 point wire attached with extension arms set at 45 degrees.
4. In residential areas, fabric shall be vinyl coated with slats, color determined by Director.
5. Increase diameter of concrete footing to 16" diameter for 8' chain link fencing.



END AND CORNER POST ASSEMBLY

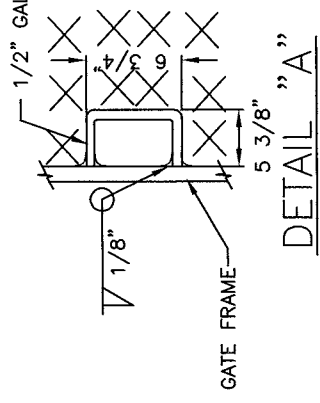
4'X12" DIAMETER FOR FABRIC 72" HIGH OR LESS.
4'X16" FOR FABRIC MORE THAN 72".

LINE POSTS:
4' X 12" DIAMETER FOR FABRIC 72" HIGH OR LESS.
4' X 16" FOR FABRIC GREATER THAN 72".



Type CL-4=48" fabric or
Type CI-6=72" fabric

1/2" GALV. STEEL ROD



DETAIL "A"

<p>COUNTY OF YOLO PLANNING AND PUBLIC WORKS DEPARTMENT</p>	<p>DATE: 08/05/08</p>
	<p>SHEET # 1 OF 2</p>
<p>CHAIN LINK FENCE</p>	<p>DRAWING #: 9-12 NOT TO SCALE</p>
<p><i>Paros Kallas</i> COUNTY ENGINEER No. C42401</p>	<p>APPROVAL DATE: 28 AUG 08</p>

TYPICAL MEMBER DIMENSIONS (SEE NOTES BELOW)

FENCE HEIGHT	LINE POSTS		END, LATCH AND CORNER POSTS		RAILS AND BRACES	
	NOMINAL ROUND O.D. (NOTES 7 AND 8)	H	ROLL FORMED	NOMINAL ROUND O.D. (NOTES 7 AND 8)	H	ROLL FORMED
Less than 6'	1-1/2"	1-7/8"x1-5/8"	3-1/2" x 3-1/2"	1-1/4"	1-1/2" x 1-5/16"	1-5/8" x 1-1/4" x 1-3/4" x 1-1/4"
6'	2"	2-1/4" x 2"	3-1/2" x 3-1/2" x 2-1/2"	1-1/4"	1-1/2" x 1-5/16"	1-5/8" x 1-1/4" x 1-3/4" x 1-1/4"

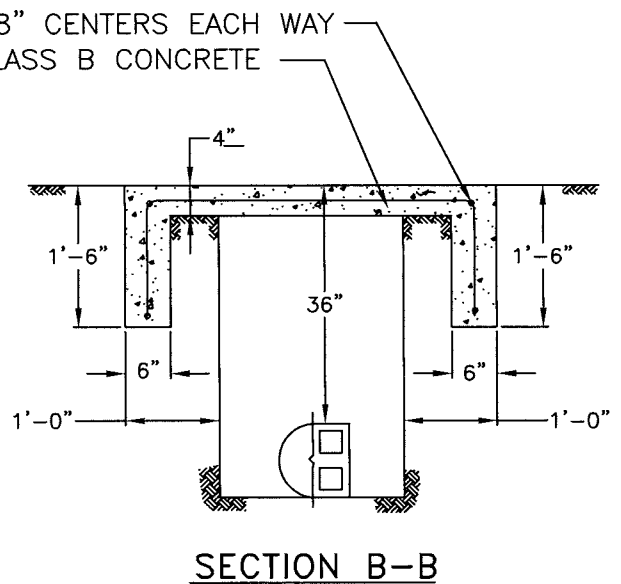
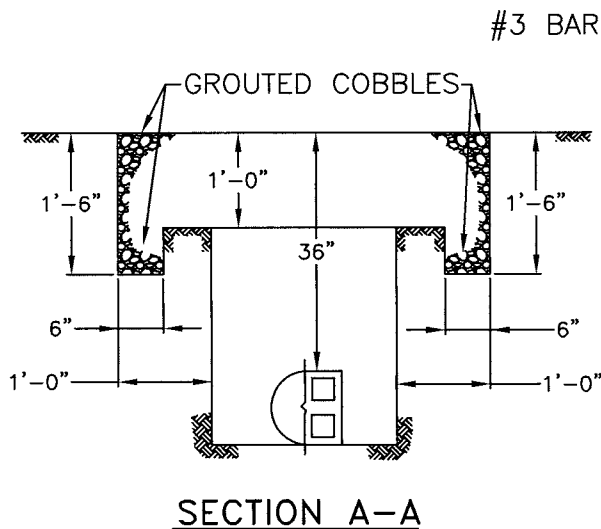
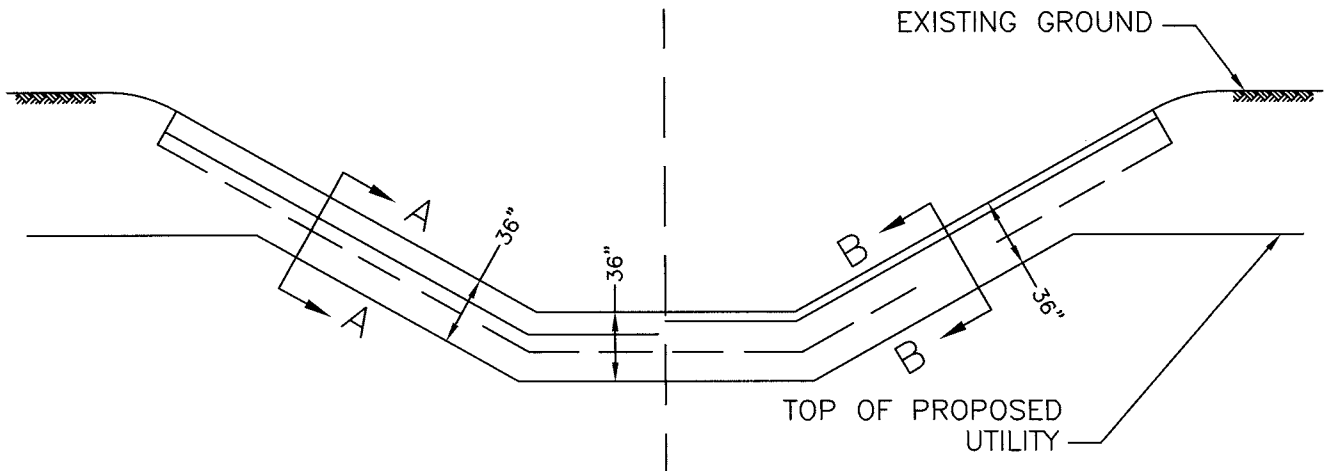
NOTES:

- The above table shows examples of post and brace sections which may comply with the Standard Construction Specifications.
- Sections shown in the tables must also comply with the strength requirements and other provisions of the Standard Construction Specifications.
- Other sections which comply with the strength requirements and other provisions of the Standard Construction Specifications may be used on approval of the Engineer.
- Options exercised shall be uniform on any one project.
- Dimensions shown are nominal.
- Offset to be 2'-0" at monument locations, measured at right angles to R/W lines. Taper to achieve offset to be at least 20' long.
- Pipe sections for posts, rails, braces, and gates shall be schedule 40 galvanized pipe manufactured in conformance with ASTM F 1083.
- Weight per foot values for 1-5/8" O.D. pipe = 2.27 lbs/ft, 2-3/8" O.D. pipe = 3.65 lbs/ft, 2-7/8" O.D. pipe = 5.79 lbs/ft.
- Chain link gate frames shall be a minimum of 1-7/8" pipe weighing 2.72 lbs/ft.
- Galvanized gate holders of heavy cast construction with counterbalanced latches shall be provided for all gates. Gate holders shall be anchored with a minimum 24" length of 1-5/8" schedule 40 pipe set in 8" diameter concrete base.

GATE POST (NOTE 7)			
FENCE HEIGHT	GATE WIDTHS	NOMINAL O.D.	WEIGHT PER FOOT
Less than 6'	Up thru 6'	2-1/2"	5.79
	Over 6' thru 12'	4"	10.79
	Over 12' thru 18'	5"	14.62
6'	Over 18' to 24' max	6"	18.97
	Up thru 6'	3"	7.58
	Over 6' thru 12'	5"	14.62
	Over 12' thru 18'	6"	18.97
	Over 18' to 24' max	8"	28.55

Above post dimensions and masses are minimums. Larger sizes may be used on approval of the County Engineer.

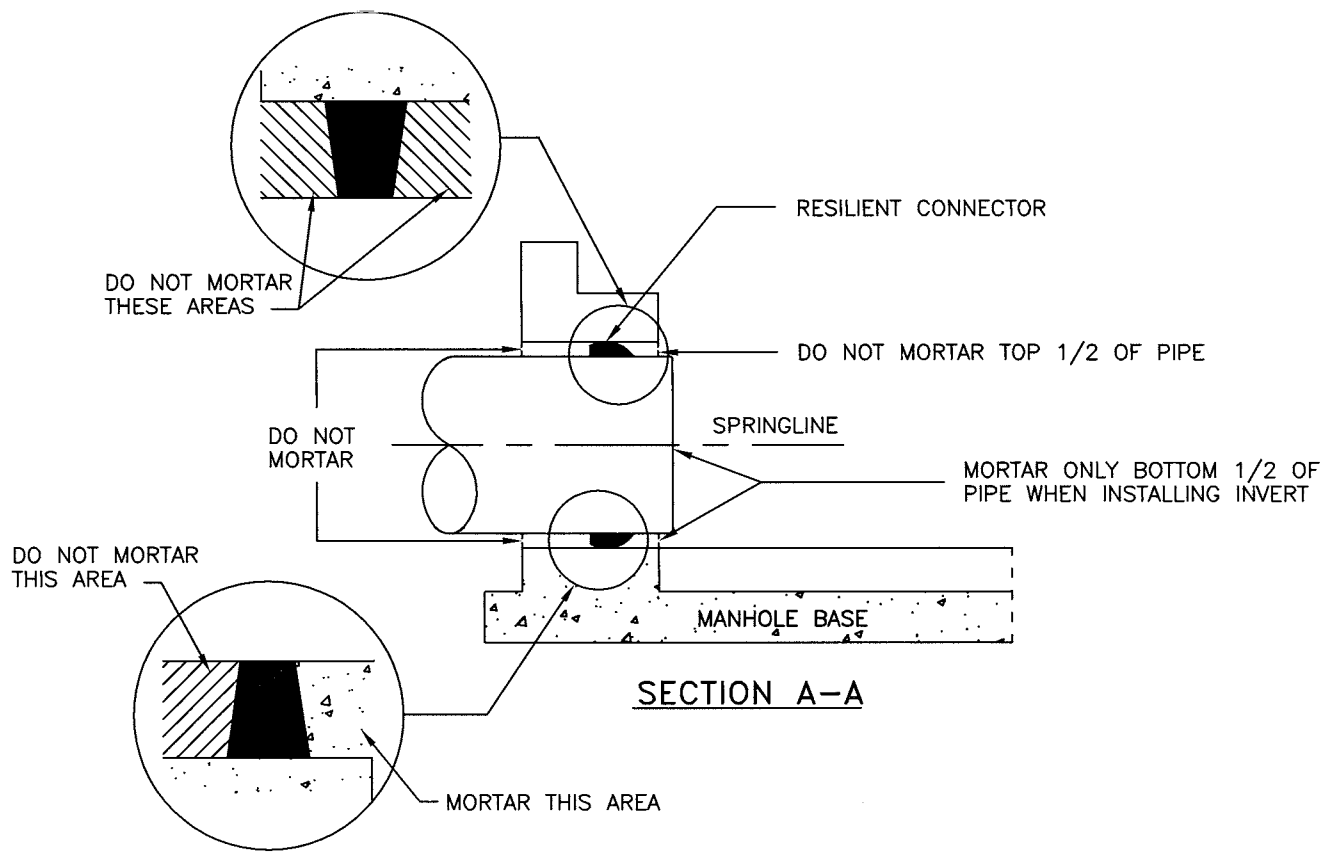
COUNTY OF YOLO PLANNING AND PUBLIC WORKS DEPARTMENT	DATE: 08/05/08
CHAIN LINK FENCE	SHEET # 2 OF 2
<i>Panos Kokkas</i> COUNTY ENGINEER No. C42401	DRAWING #: 9-12 NOT TO SCALE
28 Aug. 08	APPROVAL DATE



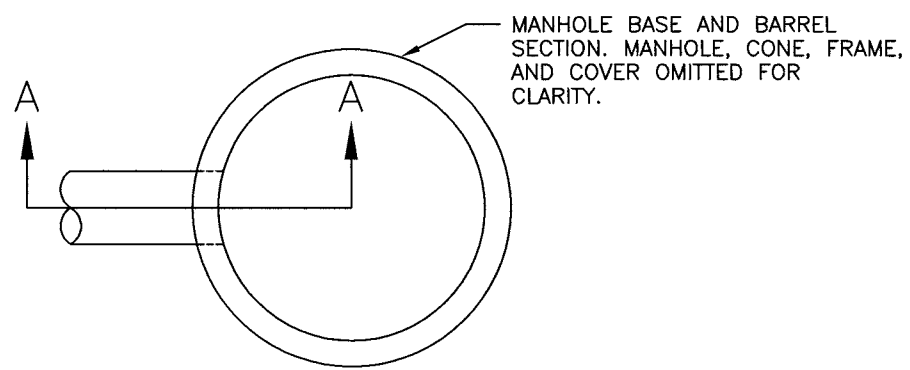
NOTES:

1. ALL UTILITY CROSSINGS OF EXISTING STREAMS SHALL BE AT LEAST 36" BELOW EXISTING CHANNEL SIDES AND BOTTOMS. DEEPER PLACEMENT MAY BE REQUIRED IF FUTURE CHANNEL IMPROVEMENTS ARE ANTICIPATED.
2. THE CUT SHALL BE SEALED AS SHOWN WITH GROUDED COBBLES OR CLASS B CONCRETE TO A WIDTH 1' EACH SIDE OF THE UTILITY TRENCH. ALL NATURAL STREAMS, AS SHOWN ON THE NATURAL STREAMS PLAN, SHALL UTILIZE GROUDED COBBLES.
3. CUT OFF WALLS SHALL CONFORM TO STANDARD DRAWING 9-10.
4. GRAVITY PIPES SHALL NOT BE SIPHONS.

COUNTY OF YOLO PLANNING AND PUBLIC WORKS DEPARTMENT		DATE: 08/05/08
UTILITY STREAM CROSSING		SHEET # 1 OF 1
<i>Paros Kerkas</i> COUNTY ENGINEER No. C42401	28 AUG. 08 APPROVAL DATE	DRAWING #: 9-13 NOT TO SCALE



SECTION A-A

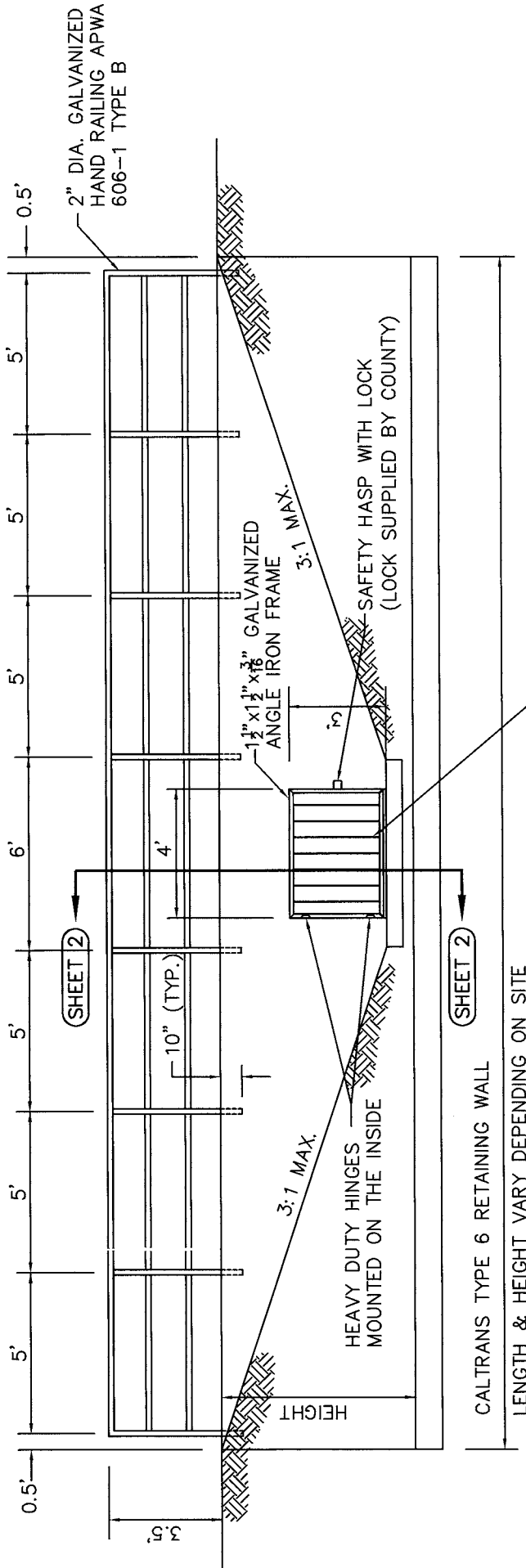


PLAN

NOTES:


1. TO HELP CREATE A FLEXIBLE AND WATERTIGHT JOINT, DO NOT PLACE MORTAR AROUND THE CONNECTOR ON THE OUTSIDE OF THE STRUCTURE OR AROUND THE TOP HALF OF THE CONNECTOR ON THE INSIDE WHEN COMPLETING THE INVERT WORK.
2. RESILIENT CONNECTORS SHALL BE A-LOK, PRESS-SEAL OR APPROVED EQUIVALENT.
3. ALL CONNECTORS SHALL MEET OR EXCEED THE REQUIREMENTS OF ASTM C-923.

COUNTY OF YOLO PLANNING AND PUBLIC WORKS DEPARTMENT		DATE: 08/05/08
FLEXIBLE CONNECTOR PIPE TO MANHOLE DETAIL		SHEET # 1 OF 1
<i>Panos Kofkas</i> COUNTY ENGINEER No. C42401	28 AUG 08 APPROVAL DATE	DRAWING #: 9-14 NOT TO SCALE



SCH. 40 1" DIA. PIPE @ 4" O.C. WELDED TO FRAME, MAXIMUM 2" GAP BETWEEN FRAME AND CONCRETE PAD. GALVANIZED PER ASTM A123 AFTER FABRICATION

- NOTE:**
1. ALTERNATIVE OUTFLOW CONTROL STRUCTURES MAY BE APPROVED BY THE COUNTY ENGINEER.
 2. CONTROL STRUCTURE SHALL BE ACCESSIBLE IN WET WEATHER CONDITIONS.
 3. CONTROL STRUCTURE SHALL NOT BE LOCATED UNDER SIDEWALKS OR IN TRAFFIC AREAS.
 4. PROVIDE FORMED VERTICAL CRACK CONTROL JOINTS AT EACH SIDE OF GALVANIZED ANGLE IRON FRAME AND MIDPOINTS AT HANDRAIL SUPPORTS.
 5. PATCH HOLES IN FACE OF WIRE WITH NON-SHRINK GROUT TO PROVIDE UNIFORM APPEARANCE.

COUNTY OF YOLO		DATE: 08/05/08
PLANNING AND PUBLIC WORKS DEPARTMENT		SHEET # 1 OF 4
DETENTION BASIN OUTFLOW STRUCTURE ELEVATION		DRAWING #: 9-15
 COUNTY ENGINEER No. C42401		APPROVAL DATE: 28 AUG. 08
		NOT TO SCALE

CENTRAL PRE-CAST DROP INLET MODEL #1R OR EQUIVALENT. BLOCKOUT TO MATCH 4'X3' OPENING CAST INTO THE RETAINING WALL. SET TO 0.75 FEET BELOW POND BOTTOM

2" DIA. GALVANIZED HAND RAILING (SCH. 40)

CALTRANS TYPE 6 RETAINING WALL

DESIGN HIGH WATER SURFACE (HWS)

CENTRAL PRECAST TRANSITION SLAB WITH 24"x48" NON TRAFFIC BICYCLE PROOF GRATE (OR EQUIVALENT).

HDPE TRASH RACK WITH LIFTING HANDLE & 1" OPENINGS (BY PLASTIC SOLUTIONS INC. OR EQUIV.). MOUNT SCREEN TO FLOOR & SIDE WALLS PER MANUFACTURERS RECOMMENDATIONS SO SCREEN CAN BE LIFTED OUT OF 24"x48" GRATE DURING HIGH WATER CONDITIONS.

HINGED GRATE, SEE SHEET 1

POND BOTTOM FL 1.0

TOP 8" MIN. COMPACTED SUBGRADE @ 95% MRC (TYP.)

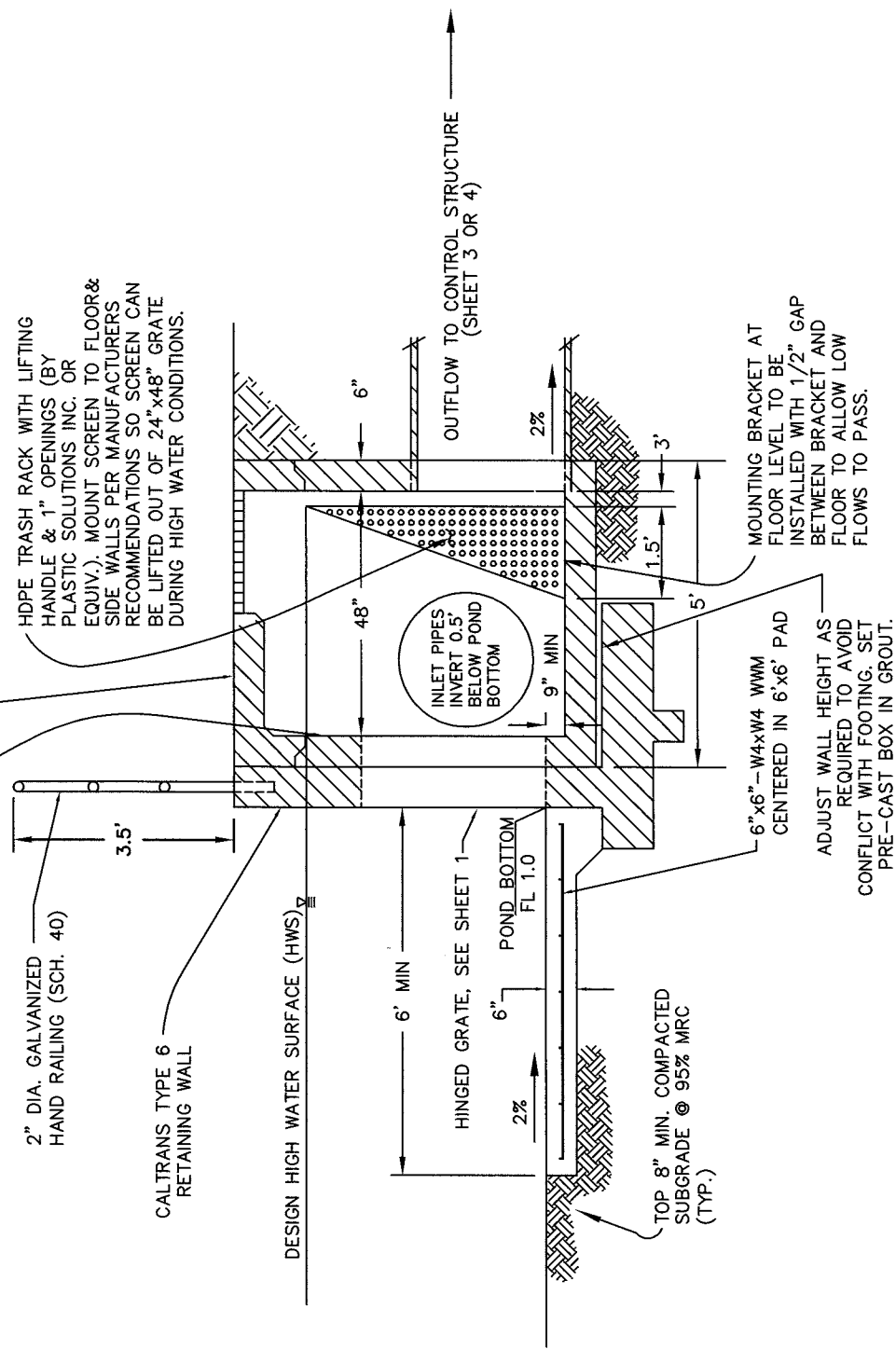
6"x6" - W4xW4 WMM CENTERED IN 6'x6' PAD

ADJUST WALL HEIGHT AS REQUIRED TO AVOID CONFLICT WITH FOOTING. SET PRE-CAST BOX IN GROUT.

INLET PIPES INVERT 0.5' BELOW POND BOTTOM

MOUNTING BRACKET AT FLOOR LEVEL TO BE INSTALLED WITH 1/2" GAP BETWEEN BRACKET AND FLOOR TO ALLOW LOW FLOWS TO PASS.

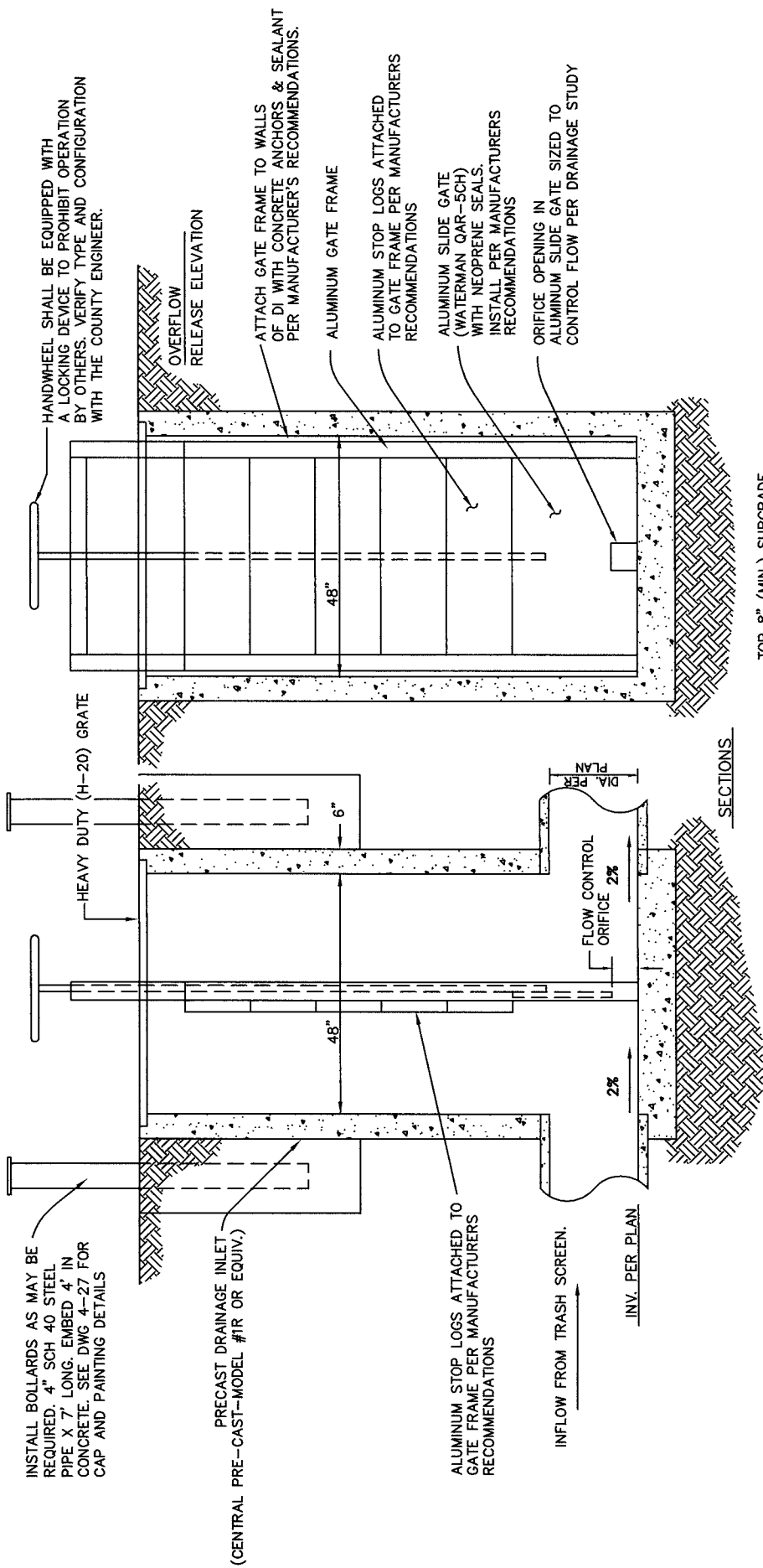
OUTFLOW TO CONTROL STRUCTURE (SHEET 3 OR 4)



COUNTY OF YOLO
 PLANNING AND PUBLIC WORKS DEPARTMENT
 DETENTION BASIN OUTFLOW STRUCTURE
 TRASH SCREEN ENCLOSURE

DATE: 08/05/08
 SHEET # 2 OF 4
 DRAWING # 9-15
 NOT TO SCALE

Panas
 COUNTY ENGINEER No. C42401
 APPROVAL DATE 28 AUG. 08



TOP 8" (MIN.) SUBGRADE
AT 95% MRC.

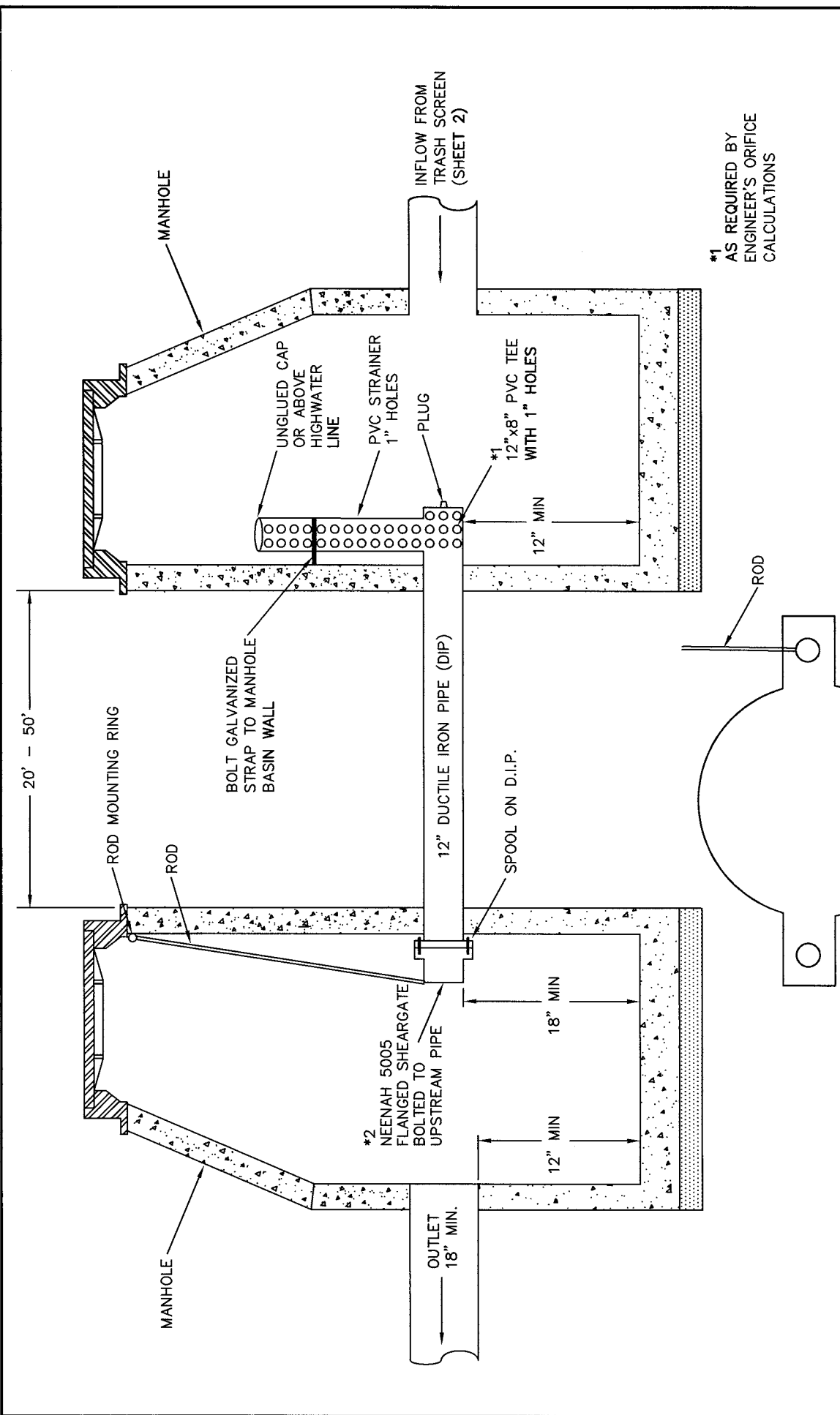
6" LAYER OF 3/4" CRUSHED ROCK
WRAPPED IN 12oz NON-WOVEN
GEOTEXTILE

COUNTY OF YOLO
PLANNING AND PUBLIC WORKS DEPARTMENT
DETENTION BASIN SLIDE GATE RESTRICTOR
OUTFLOW CONTROL STRUCTURE

DATE: 08/05/08
SHEET # 3 OF 4

Parras Kalkas
COUNTY ENGINEER No. C42401
APPROVAL DATE 28 AUG 08

DRAWING #: 9-15
NOT TO SCALE



COUNTY OF YOLO PLANNING AND PUBLIC WORKS DEPARTMENT		DATE: 08/05/08
DETENTION BASIN SHEAR GATE RESTRICTOR OUTFLOW CONTROL STRUCTURE		SHEET # 4 OF 4
<i>Carlos Kallas</i> COUNTY ENGINEER No. C42401		DRAWING #: 9-15 NOT TO SCALE
APPROVAL DATE 28 AUG. 08		

*1 AS REQUIRED BY ENGINEER'S OFFICE CALCULATIONS

*2 ORIFICE SIZE PER ENGINEER'S CALCULATIONS RECTANGULAR OR CIRCULAR ORIFICE, AT THE BOTTOM OF SHEAR GATE.