

UNLESS SPECIFICALLY APPROVED BY THE DIRECTOR.

- 3. DRAIN INLETS NOT WITHIN A PAVED AREA SHALL HAVE A 12" WIDE COLLAR OF 6" THICK CONCRETE.
- 4. THE INSIDE SURFACE OF FRONT AND BACK WALLS OF THE CATCH BASIN SHALL NOT DEVIATE MORE THEN 2" OF VERTICAL ALIGNMENT.
- 5. SLOPE FLOOR 2" TO OUTLET.
- 6. ALL CONCRETE SHALL BE "MINOR CONCRETE" AS DEFINED IN SECTION 71-5B OF THESE STANDARDS.
- 7. PROVIDE END OR SIDE OPENINGS AS SHOWN ELSEWHERE ON PLANS OR CROSS SECTIONS.
- 8. TOP OF ALL WALLS SHALL BE FINISHED TO A LEVEL PAN TO PROVIDE EVEN BEARING FOR PLATE COVER.
- 9. SEE DETAIL DR-1 FOR REINFORCEMENT REQUIREMENTS.
- 10. PIPE CONNECTIONS TO STRUCTURE SHALL BE MADE BY 12"X12" MINOR CONCRETE COLLARS.

CALIFORNIA

**DEVELOPMENT SERVICES** DEPARTMENT

DROP INLET TYPE "F"

SCALE: NONE

REVISED: JANUARY 1, 2020

DRAWN BY: R MEDINA

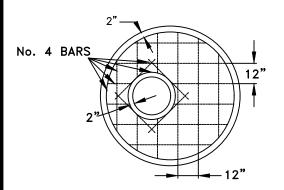
APPROVED BY: MARC STOUT

#### TABLE OF DIMENSIONS

Α	В	T MIN.
48"	18"	6"
60"	30"	8"
72"	42"	8"
84"	54"	12"
96"	12" (FLAT)	12"

DIMENSION "B" IS A MINIMUM DIMENSION AND MAY BE GREATER IF DEPTH PERMITS.

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



STD. FRAME & COVER

EPOXY

SEE NOTE B

MIN.

SEE NOTE A

3" PAVEMENT PATCH OR MINOR CONCRETE -

#4 REBAR (TYP.)

"MINOR CONCRETE" AS

DEFINED IN SECTION 71-5 B
OF THESE STANDARDS. SEE

NOTE 7 BELOW. SEE SECTION 101-4F FOR CASTING HEIGHT

PER SECTION 101-4.F FOR FINISH

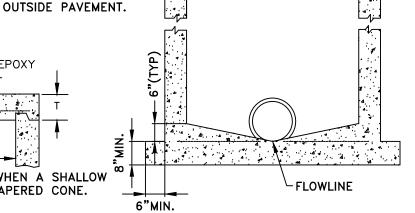
GRADE REQUIREMENTS

- A. A FLAT TOP SLAB SHALL BE USED WHEN A SHALLOW LINE DOES NOT PERMIT USE OF A TAPERED CONE. NO CONCRETE COLLAR REQUIRED.
- B. IF THE BOTTOM, INSIDE DIAMETER OF THE FLAT TOP OPENING IS 28 INCHES OR MORE, THE THICKNESS OF THE SLAB MAY BE DISREGARDED IN COMPUTING THE MAXIMUM 18 INCH HEIGHT OF THE OPENING.

## FLAT TOP SLAB

#### NOTES:

- 1. ECCENTRIC CONES SHALL BE USED WHERE SPECIFIED ON THE PLANS.
- 2. JOINT MAY BE EITHER KEYED OR TONGUE AND GROOVE.
- 3. SEE SECTION 101-8 (MATERIALS) FOR JOINT COMPOUND. (ALL MANHOLE JOINTS)
- 4. TOP OF FRAME SHALL BE 1/8 INCH BELOW ADJACENT PAVEMENT. (PER 101-4.F)
- 5. 0.20 FOOT MINIMUM FALL THROUGH MANHOLE.
- 6. O.D. OF PIPE SHALL NOT EXCEED I.D. OF ITS MANHOLE BARREL.
- 7. WHERE SHORT 24" FRAMES ARE USED, TO ACHIEVE FULL 3 INCH PAVEMENT PATCH SLOPE CONCRETE FROM BASE OF FRAME TO 3 INCHES BELOW FINISH GRADE.
- 8. PIPE CONNECTIONS TO STRUCTURE SHALL BE MADE BY 12"X12" MINOR CONCRETE COLLARS.
- 9. CONCRETE COLLAR AROUND RIM SHALL BE BROUGHT TO SURFACE FINISH GRADE FOR ALL COLLECTORS AND ARTERIALS, OPTIONAL IN ALL OTHER ROADWAYS. FINISH SURFACE SHALL BE MEDIUM BROOM FINISH WITH PATTERN PERPENDICULAR TO VEHICLE TRAVEL DIRECTION.







DEVELOPMENT SERVICES
DEPARTMENT

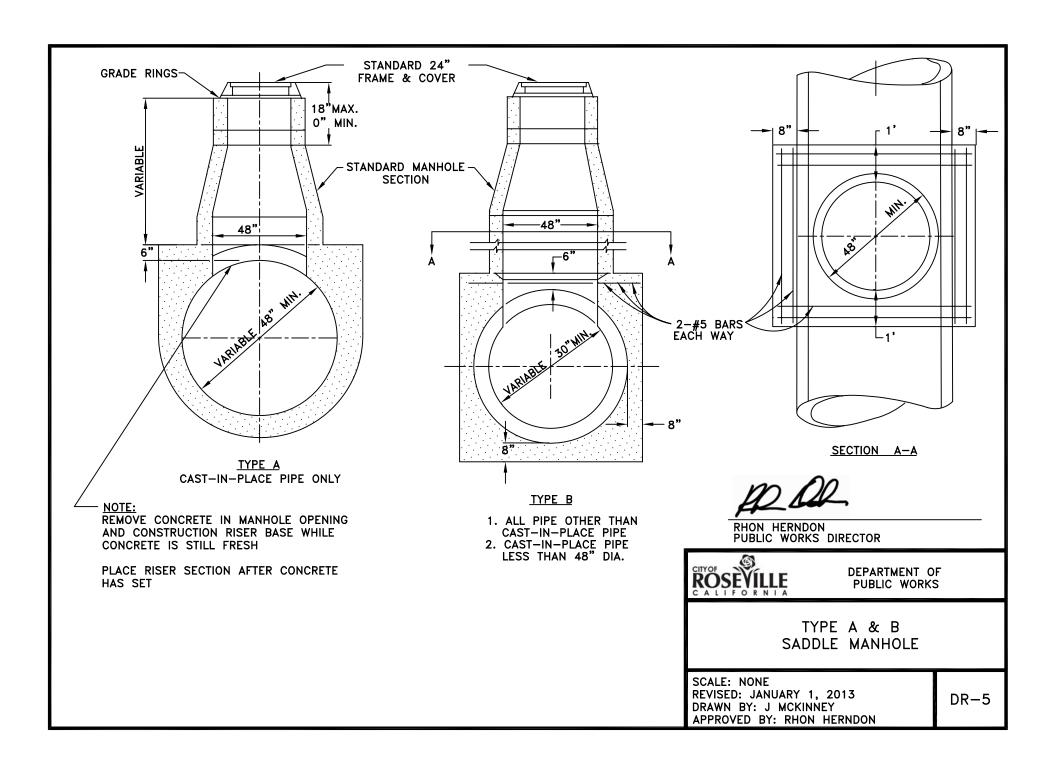
STANDARD PRECAST MANHOLE (DRAINAGE)

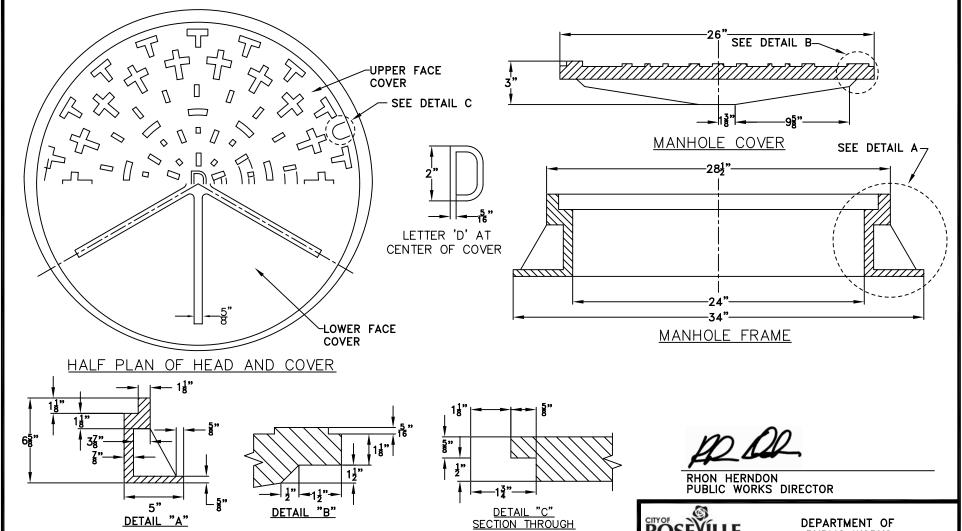
SCALE: NONE
REVISED: MARCH 1 , 2021
DRAWN BY: R MEDINA
APPROVED BY: MARC STOUT

DR-4

GRADE RINGS 3" MIN WHEN USED PER

101-4.E





CENTER OF PICK HOLE

#### **NOTES:**

- REMOVE CONCRETE IN MANHOLE OPENING AND CONSTRUCTION RISER BASE WHILE CONCRETE IS STILL FRESH
- 2. PLACE RISER SECTION AFTER CONCRETE HAS SET.
- 3. A SHORT FRAME REQUIRES APPROVAL OF THE PUBLIC WORKS INSPECTOR.
- 4. ALL MANHOLE COVERS ARE TO HAVE A ANTI SKID PATTERN
- 5. SEE SECTION 101-8 MATERIALS OF THE THESE CONSTRUCTION STANDARDS (DR 9 of11) FOR APPROVED FRAME AND COVERS.

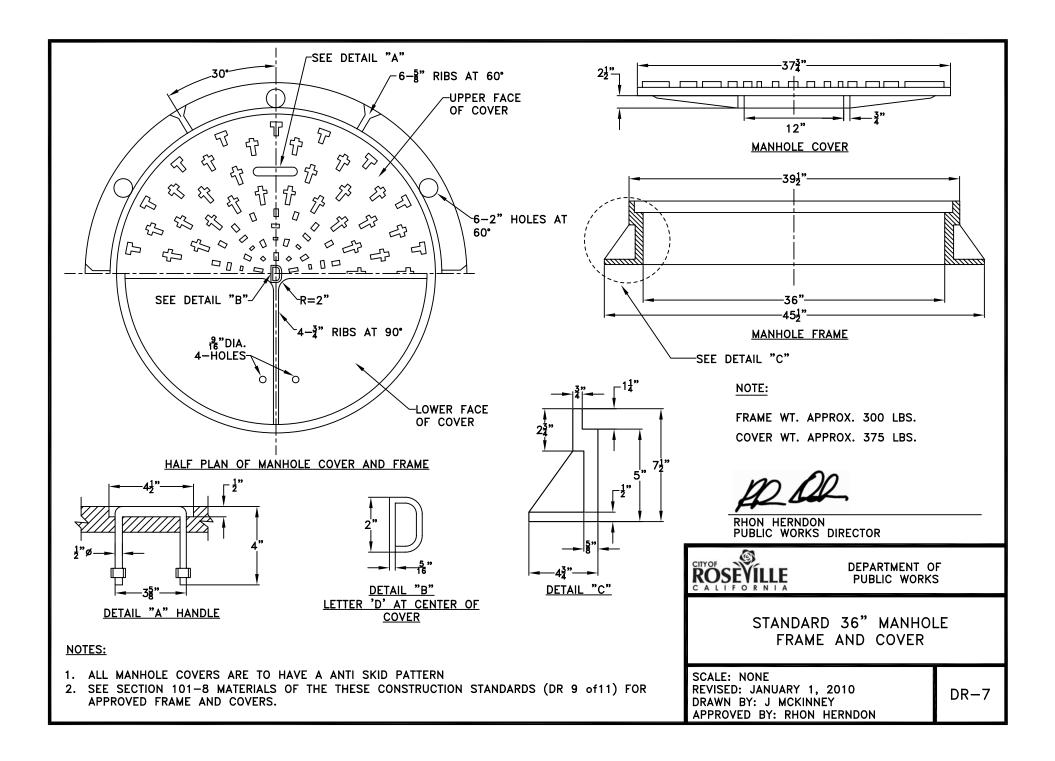


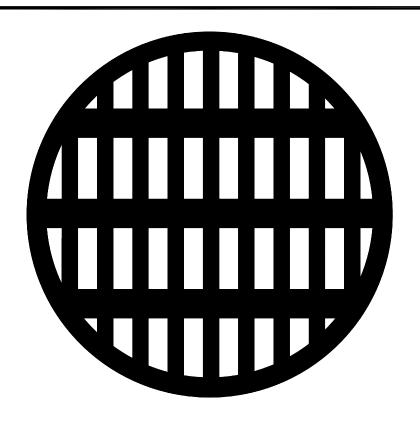
DEPARTMENT OF **PUBLIC WORKS** 

STANDARD DRAINAGE MANHOLE FRAME AND COVER

SCALE: NONE

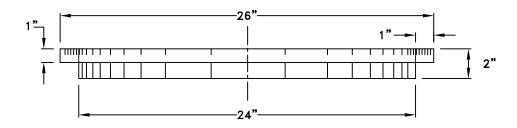
REVISED: JANUARY 1, 2013 DRAWN BY: J MCKINNEY APPROVED BY: RHON HERNDON





DRAIN INLET FRAME AND COVER ASSEMBLIES (OR APPROVED EQUAL APPLIES)

D&L SUPPLY: #C-2660 (6 5/8 INCH HIGH STANDARD CASTING), #C-2661 (5 INCH), #C-2662 (3 INCH) SOUTH BAY FOUNDRY: #1920 (6 5/8 INCH). #1922 (5 INCH), #1923 (3 INCH), (SPECIFY DRAIN INLET TYPE)



RÖSEVILLE

DEPARTMENT OF PUBLIC WORKS

GRATE TYPE MANHOLE COVER

1. DRAIN INLET AND NON DRAIN INLET FRAMES ARE IDENTICAL.

NOTES:

2. A SHORT FRAME REQUIRES APPROVAL OF THE PUBLIC WORKS INSPECTOR

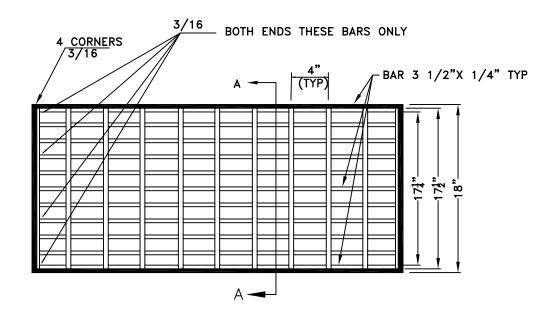
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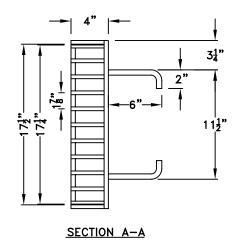
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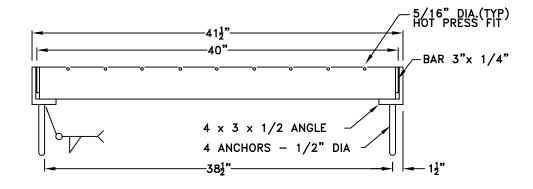
RHON HERNDON

PUBLIC WORKS DIRECTOR

APPROVED BY: RHON HERNDON







# RHON HERNDON PUBLIC WORKS DIRECTOR



DEPARTMENT OF PUBLIC WORKS

DROP INLET FRAME AND GRATE FOR TYPE "C" INLETS

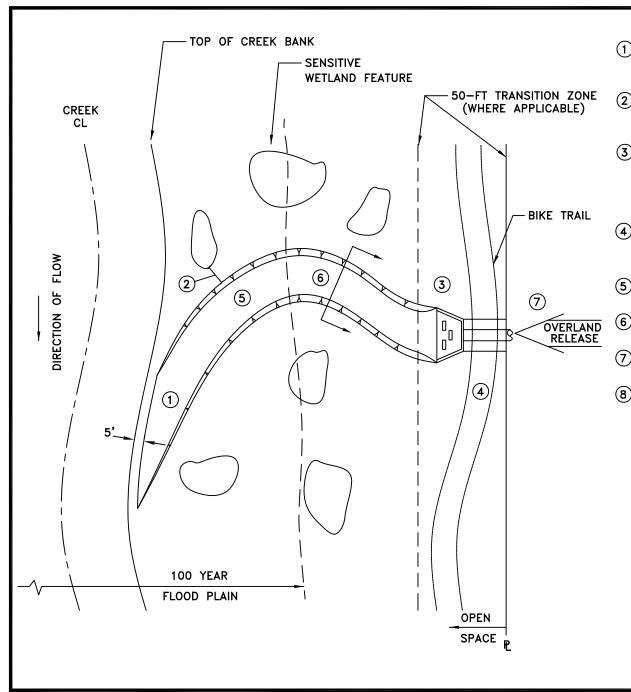
SCALE: NONE

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DR-9

#### NOTES:

- 1. FOR CATCH BASINS EXCEEDING FOUR FEET IN DEPTH, AN 18 INCH LONG, 1/4 INCH X 1/8 INCH PROOF COIL CHAIN SHALL CONNECT THE GRATE AND FRAME. THE CHAIN SHALL BE WELDED TO THE STREET SIDE OF THE FRAME AND THE CURB SIDE OF THE GRATE AT THE SAME END.
- 2. AT THE CONTRACTOR'S OPTION, END SPACING OF 5/16" CROSS RODS MAY BE 2". INTERIOR SPACING SHALL REMAIN 4".



NOTES:

- 1 DRAINAGE SWALE (DR-11) SHALL DAYLIGHT 5-FT PRIOR TO TOP OF CREEK BANK. FLOW VELOCITY SHALL BE AT 2 FPS PRIOR TO DAYLIGHT.
- 2 EDGE OF DRAINAGE SWALE SHALL REMAIN A MINIMUM OF 5-FT FROM ANY SENSITIVE WETLAND FEATURES.
- (3) OUTFALL STRUCTURE (DR-12) MAY BE PLACED WITHIN 50-FT TRANSITION ZONE. IN AREAS WHERE A TRANSITION ZONE DOES NOT EXIST, THE LOCATION OF THE OUTFALL STRUCTURE SHALL BE ONSITE OR AS APPROVED BY THE CITY ENGINEER.
- 4 IF A BIKE TRAIL IS LOCATED WITHIN THE OPEN SPACE, THEN THE OUTFALL STRUCTURE SHALL BE PLACED ON THE STREAM SIDE OF THE BIKE TRAIL.
- (5) VELOCITY CHECK DAMS DR-14 SHALL BE
  USED WHEN DESIGN FLOW VELOCITY EXCEEDS 5 FPS.
- 6 SEE STANDARD DETAIL DR-11 FOR SWALE CROSS SECTION.
- 7 OVERLAND RELEASE SHALL TIE INTO HEADWALL STRUCTURE PER DETAIL DR-12.
- 8 SWALE LENGTH IS A FUNCTION OF CONTACT TIME AS REQUIRED FOR STORM WATER TREATMENT.



RHON HERNDON PUBLIC WORKS DIRECTOR

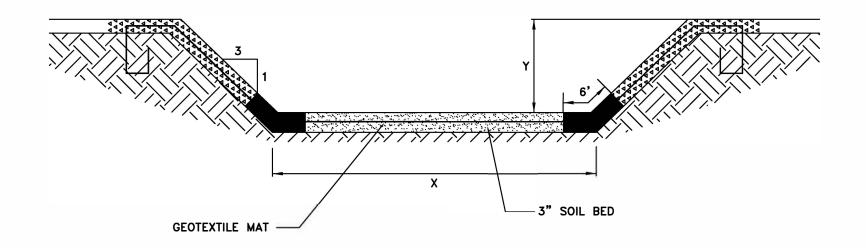


DEPARTMENT OF PUBLIC WORKS

WATER QUALITY OUTFALL SWALE WITHIN OPEN SPACE

SCALE: NONE

REVISED: JANUARY 1, 2013 DRAWN BY: J MCKINNEY APPROVED BY: RHON HERNDON



## KEY:

SWALE/WET NATIVE SEED MIX (SEE SECTION 11, GRADING FOR SEED MIX)

DRY NATIVE SEED MIX (SEE SECTION 11, GRADING FOR SEED MIX)



SWALE/WET AND DRY SEED MIX

X CHANNEL BASE

CHANNEL DEPTH

#### **NOTES**

 PYRAMAT HPTRM OR APPROVED EQUAL SHALL BE PLACED ON TOP OF 3-IN SEEDED SOIL BED AND WILL BE INSTALLED PER THE MANUFACTURE'S SPECIFICATIONS. FOR CHANNEL VELOCITIES LESS THAN 5 FPS, THE PYRAMAT HTRM MAY BE REPLACED WITH A BIODEGRADABLE MATTING (I.E. COCONUT MATTING) THE BIODEGRADABLE MATTING SHALL A MINIMUM 3 YEAR LIFE.

2. WETLAND AND UPLAND SEEDING SHALL OVERLAP AT THE TRAPEZOIDAL HINGE POINT.

3. IF SWALE IS BEING USED FOR STORM WATER TREATMENT, THEN THE CHANNEL GEOMETRIC DESIGN SHALL FOLLOW THE GUIDLINES FOR CONTACT TIME FROM THE STORMWATER QUALITY DESIGN MANUAL FOR THE SACRAMENTO AND SOUTH PLACER REGIONS.

4. ALL SWALES SHALL BE DESIGNED TO CONVEY THE 10-YEAR STORM EVENT.

MARC STOUT **CITY ENGINEER** 



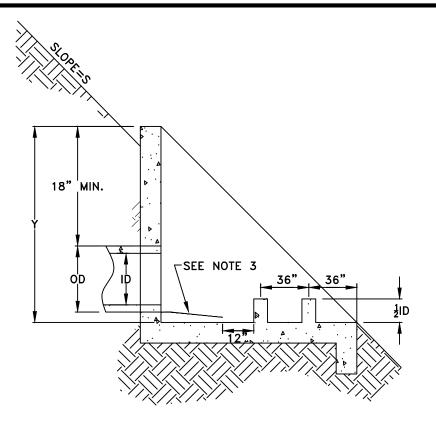
**DEVELOPMENT SERVICES DEPARTMENT** 

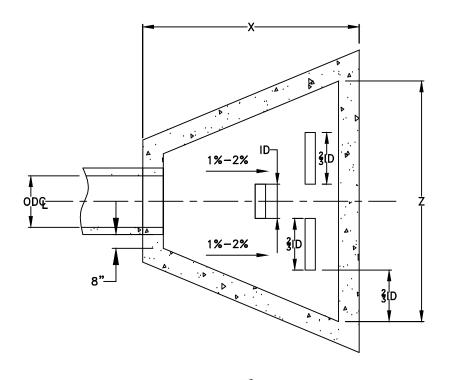
WATER QUALITY **OUTFALL SWALE** 

SCALE: NONE

REVISED: FEBRUARY 1, 2020

DRAWN BY: J HENDRIX APPROVED BY: MARC STOUT





#### NOTES:

1. HEADWALL DESIGN MUST MEET THE FOLLOWING CRITERIA:

A. X = SY

B.  $X \ge ID + 6(FT)$ 

C.  $Y \ge OD + 2(FT)$ 

- 2. ALL CONCRETE SHALL BE MINIMUM 8" THICK
- 3. DESIGN ENGINEER SHALL PROVIDE A REBAR SCHEDULE FOR HEADWALLS LESS THAN 4 FEET IN HEIGHT
- 4. STRUCTURAL CALCULATIONS SHALL BE SUBMITTED FOR HEADWALLS 4 FEET OR GREATER IN HEIGHT
- 5. ALL CONCRETE TO BE "MINOR CONCRETE" AS DEFINED IN SECTION 71-5B OF THESE STANDARDS
- 6. REFER TO STANDARD DETAIL DR-16 FOR ACCESS CONTROL RACK REQUIREMENTS.
- 7. REFER TO DESIGN ENGINEER (STRUCTURAL) DESIGN WHERE FENCING IS REQUIRED.



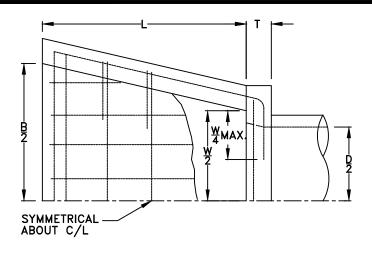
MARC STOUT CITY ENGINEER

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DEPARTMENT

**HEADWALL** 

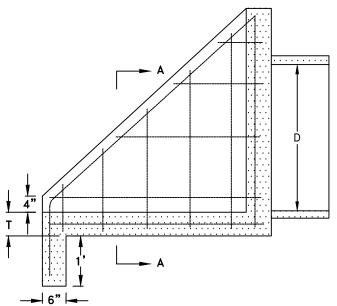
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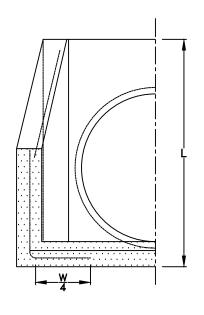
REVISED: JANUARY 1, 2021 DRAWN BY: J MCKINNEY APPROVED BY: MARC STOUT



#### **DIMENSIONS & REINFORCING**

D	w	В	L	Т	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 <b>@</b> 12"
60"	6'- 0"	8'-10"	6'- 6"	8"	# 6 @ 12"





HALF SECTION A-A

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DEPARTMENT OF PUBLIC WORKS

PIPE INLET STRUCTURE

SCALE: NONE

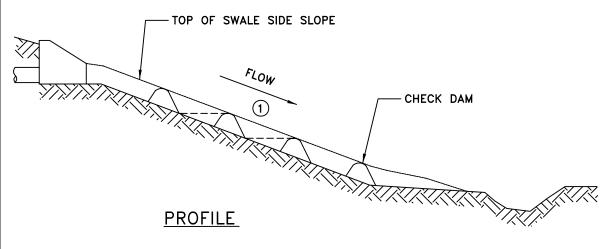
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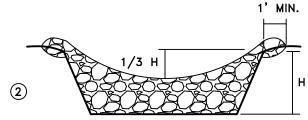
DRAWN BY: J MCKINNEY

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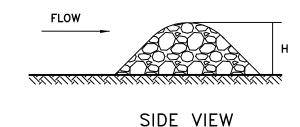
### **NOTES:**

- 1. "B" MAY BE REDUCED IF REQUIRED BY CHANNEL DIMENSIONS
- 2. REINFORCING BAR SPACING SHOWN IS MAXIMUM SPACING.
- 3. ALL CONCRETE TO BE "MINOR CONCRETE" AS DEFINED IN SECTION 71-5B OF THESE STANDARDS.
- 4. SEE DR-15 FOR TRASH RACK DETAIL.
- 5. REFER TO DESIGN ENGINEER'S (STRUCTURAL) DESIGN, WHERE FENCING IS REQUIRED.





## FRONT VIEW





## NOTES:

- (1) CHECK DAMS SHALL BE SPACED SUCH THAT THE TOP OF THE DOWNSTREAM CHECK DAM ALIGNS WITH THE BOTTOM OF THE UPSTREAM CHECK DAM.
- (2) RIP-RAP SHALL BE 4-INCH TO 6-INCH ANGULAR ROCK.
- (3) H = CHANNEL DEPTH

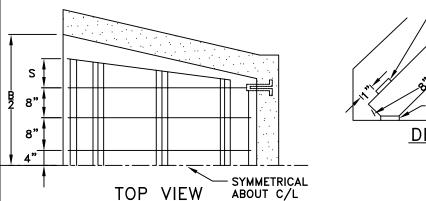


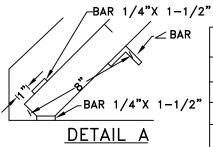
DEPARTMENT OF PUBLIC WORKS

VELOCITY CHECK DAM

SCALE: NONE

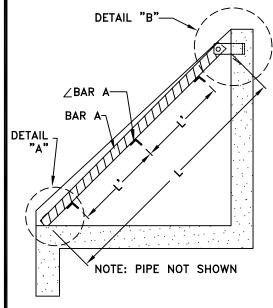
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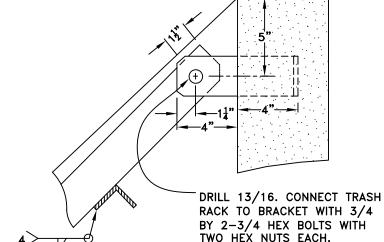




TRASH	RACK	DEMEN	ISIONS

	NUMBER	& SIZE		. 1		
DIA.	BAR A	L BAR	L	L	S	Н
33"	8-3/8 X 2 1/2	3-2 X 2 X 1/4	5'-1"	1'-10"	8"	3"-8"
36"	39	99	5'-4"	1'-11"	8"	3'-10"
42"	9-3/8 X 2 1/2	"	5'-11"	2'-3"	9"	4'-4"
48"	<b>33</b>	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 1/2"	10 1/2"	5'-8"
60"	11-3/8 X 3 1/2	39	8'-5"	2'-4"	11"	6'-2"





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SIDE VIEW

**DETAIL B** 

#### NOTES

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

TYP. ALL WELDS

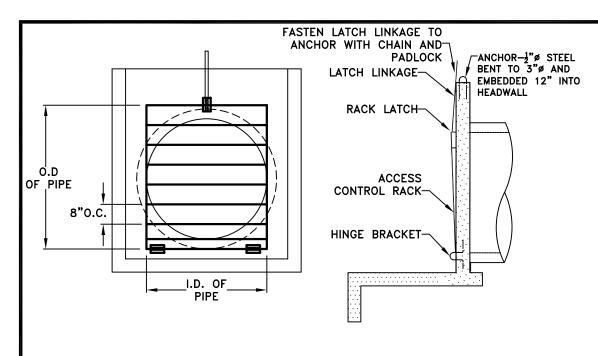


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INLET TRASH RACK
33" PIPE OR LARGER

SCALE: NONE

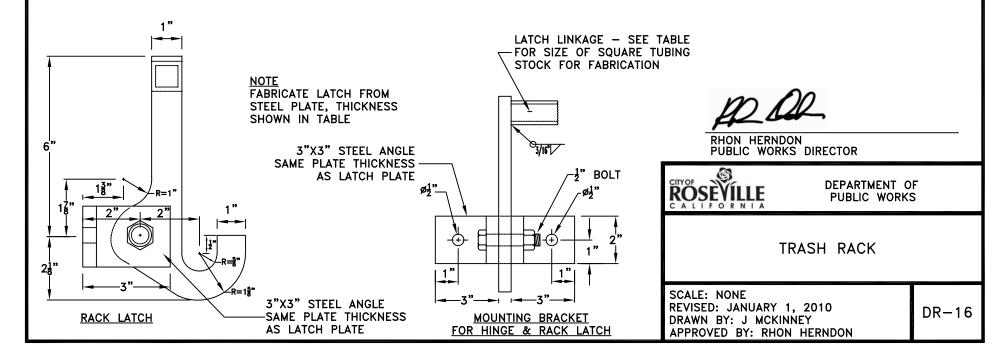
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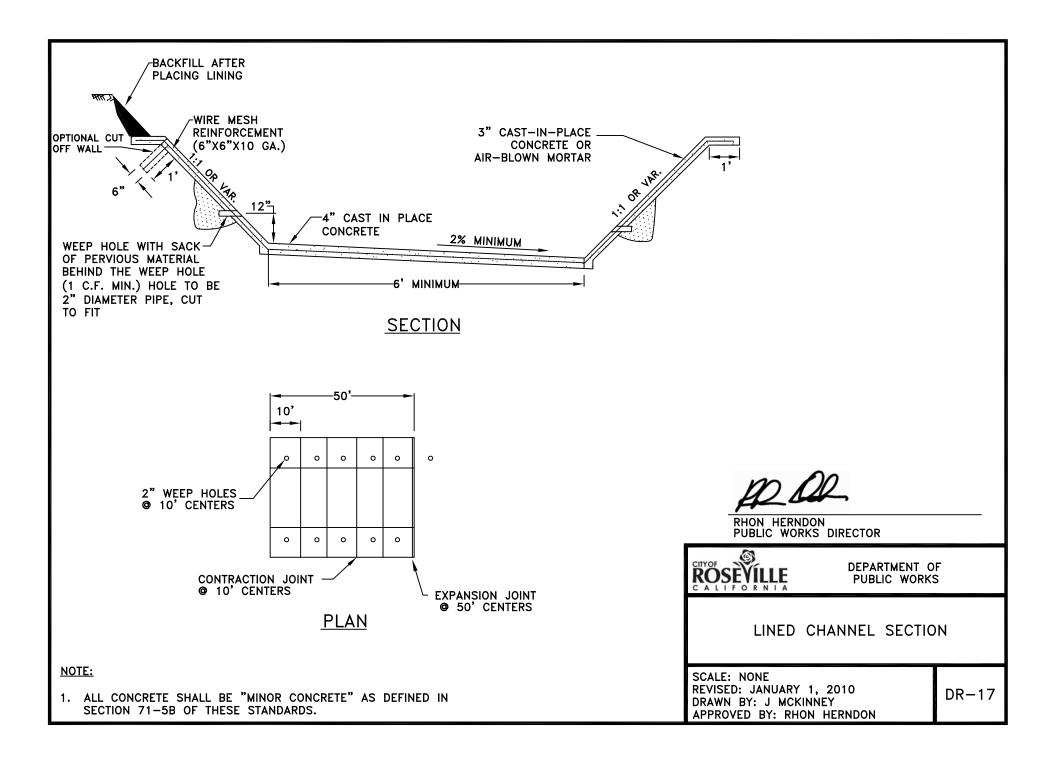


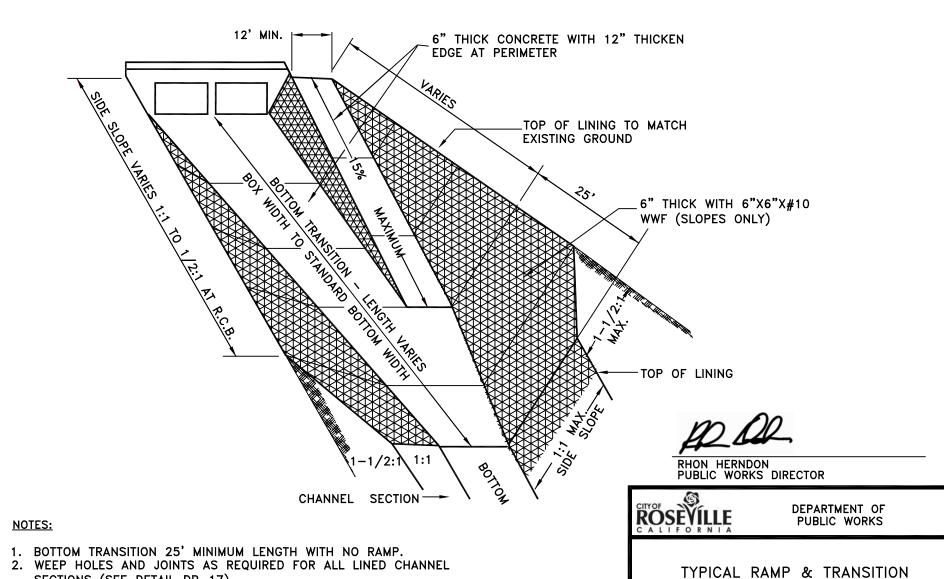
#### NOTES

- 1. ENTIRE RACK TO BE WELDED REINFORCING STEEL OR ROUND BARS OF EQUAL DIAMETER WITH HORIZONTAL BARS BEING 8" CENTER TO CENTER.
- ROOM SHALL BE PROVIDED DOWNSTREAM TO LAY RACK FLAT.
- 3. FASTEN LATCH BRACKET TO HEADWALL WITH 1/2" X 6" BOLTS WITH HEX NUTS, OR 1/2" EXPANSION BOLTS.
- 4. 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.
- 5. FABRICATE HINGE BRACKET FROM #4 RE-BAR.

PIPE	RACK	LATCH PLATE	LATCH LINKAGE
SIZE	BAR SIZE	THICKNESS	SIZE
21"-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







- SECTIONS (SEE DETAIL DR-17).
- 3. LOW SIDE OF CHANNEL TO BE OPPOSITE RAMP.
- 4. SIDE SLOPE LINING MAY BE DELETED ON CHANNELS WITH **BOTTOM LINING ONLY**
- 5. ALL CONCRETE SHALL BE "MINOR CONCRETE" AS DEFINED IN SECTION 71-5B OF THESE STANDARDS.

SCALE: NONE

REVISED: JANUARY 1, 2013 DRAWN BY: J MCKINNEY APPROVED BY: RHON HERNDON

#### MAXIMUM TRENCH DEPTH MEASURED SURFACE TO BOTTOM OF TRENCH IN FEET DIAMETER CAST REINFORCED CONCRETE PIPE IN -CLASS-**PLACE** П Ш I۷ PERMITTED LIMIT NOT

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N	<b>^</b>	LEG.

- ALL DEPTHS SHOWN ARE FLEXIBLE PAVEMENT AND TRENCH WIDTH EQUAL TO O.D. OF PIPE PLUS 16" FOR PIPE 33" AND SMALLER IN INSIDE DIAMETER.
- 2. TRENCH WIDTH EQUALS O.D. OF PIPE PLUS 24" FOR PIPE 36" AND LARGER IN INSIDE DIAMETER. TRENCH WIDTH MEASURED AT TOP OF PIPE.

	MINIMUM COVER					
МЕ	ASUR	ED SI	JRFA	CE T	0	
TO	P OF	PIPE	IN I	NCH	ES	
				MIN.	СО	

TVDE	01.400	MIN. COVER				
TYPE	CLASS	STREET	OFF ST.			
	1	27	12			
REINFORCED	II	24	12			
CONCRETE	111	18	12			
	IV	12	12			
	٧	12	12			
CAST PLACE CONC. PIPE		24	12			
PVC PIPE		36	24			



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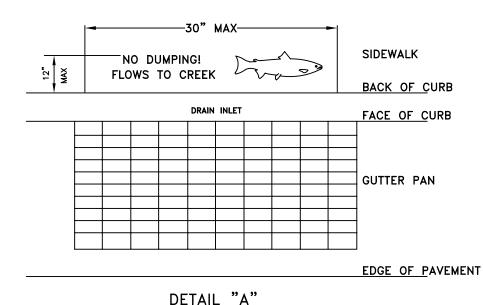


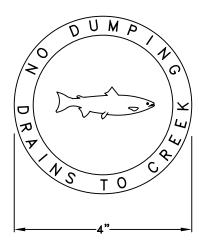
DEPARTMENT OF PUBLIC WORKS

TRENCH DEPTH AND MINIMUM COVER REQUIREMENTS

SCALE: NONE

REVISED: JANUARY 1, 2010 DRAWN BY: J MCKINNEY APPROVED BY: RHON HERNDON





DETAIL "B"

#### **NOTES:**

- 1. DETAIL "A" LETTERING SHALL BE 1 1/4 TO 1 1/2 INCHES HIGH. THE MESSAGE AND SYMBOL SHALL BE DEPRESSED 1/8 TO 1/4 INCH INTO THE CONCRETE. THE FISH SYMBOL SHALL BE A MINIMUM OF 11 INCHES LONG AND 3 1/2 INCHES HIGH.
- 2. DETAIL "A" SHALL BE PRE APPROVED BY THE CONSTRUCTION INSPECTOR PRIOR TO ITS USE.
- 3. DETAIL "A" SHALL APPLY TO ALL DRAIN INLET DESIGNS. WHERE THE SIDEWALK DOES NOT ADJOIN THE BACK OF CURB, THE NOTICE SHALL BE STAMPED IN THE CONCRETE BACKUP, BEHIND THE DRAIN INLET. WHERE THE DRAIN INLET IS PLACED IN A "V" GUTTER WITHOUT A CURB INLET, THE NOTICE SHALL BE STAMPED ON ONE SIDE OR THE OTHER, PARALLEL TO THE LENGTH OF THE INLET.
- 4. DETAIL "B" MAY BE PLACED WHERE DETAIL "A" DOES NOT WARRANT INSTALLATION AT THE DISCRETION OF THE PUBLIC WORKS CONSTRUCTION INSPECTOR. SEE DRAINAGE SECTION 101-8 OF THE DESIGN AND CONSTRUCTION STANDARDS FOR SPECIFICATIONS.
- 5. THE MESSAGE SHALL BE FREE OF BLEMISHES, LEGIBLE AND ACCEPTABLE TO THE CONSTRUCTION INSPECTOR.



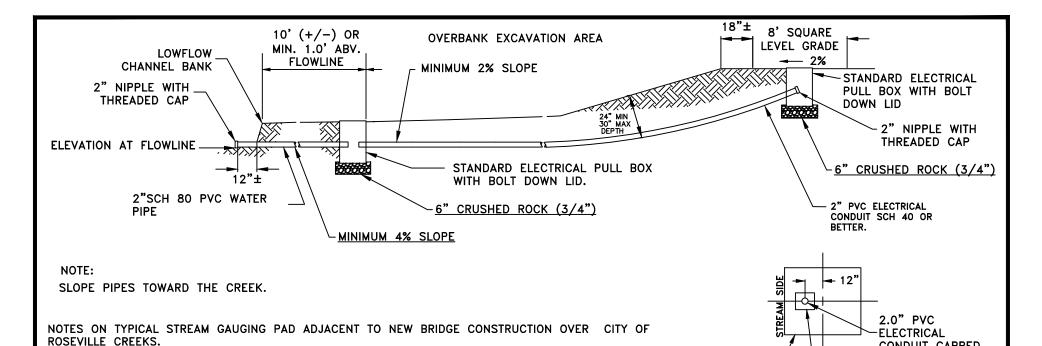


DEPARTMENT OF PUBLIC WORKS

"NO DUMPING"
PUBLIC NOTICE

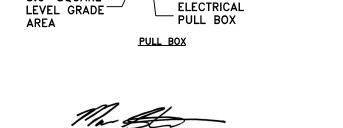
SCALE: NONE

REVISED: JANUARY 1, 2010 DRAWN BY: J MCKINNEY APPROVED BY: RHON HERNDON



EACH STREAM GAUGING CONDUIT WILL HAVE FOUR COMMON PRINCIPAL COMPONENTS:

- 1. A PAD GRADE AREA 8.0 FEET SQUARE WITH 2% SLOPE TOWARD THE STREAM SIDE. AN ELECTRICAL PULL BOX WILL BE INSTALLED 12 INCHES OFF CENTER OF THE PAD TOWARD THE STREAM SIDE.
- 2. TWO INCH ELECTRICAL PVC CONDUIT SCH. 40 OR BETTER COMMENCING AT THE ELECTRICAL PULL BOX ON THE PAD AND TERMINATING IN AN ELECTRICAL PULL BOX 10 FEET +/- FROM THE LOW FLOW CHANNEL BANK OR 1 FOOT +/- ABOVE THE LOW FLOW. THE CONDUIT SHOULD NOT INCLUDE ONLY LONG RADIUS ELBOWS TO DROP IT DOWN TO THE APPROPRIATE ELEVATION. A PULL STRING 1/4" NYLON PULL ROPE SHALL BE BLOWN INTO THE CONDUIT FROM THE ELECTRICAL PULL BOX ON THE PAD AREA TO THE ELECTRICAL PULL BOX ADJACENT TO THE LOW FLOW CHANNEL.
- 3. STANDARD NO. 5 ELECTRICAL PULL BOXES WITH BOLT DOWN LIDS WILL BE USED. THE BOTTOMS OF PULL BOXES SHALL BE BEDDED IN 6 INCHES OF CLEAN CRUSHED ROCK. CONDUIT TERMINATION IN THE PULL BOX SHALL BE A MINIMUM OF 2 INCHES FROM THE SIDES OF THE PULL BOX, 6 INCHES ABOVE THE CRUSHED ROCK. PULL BOX RIM AND LID SHALL BE 1 3" ABOVE FINISH GRADE.
- 4. LOCATION OF THIS STRUCTURE SHOULD BE ON THE UPSTREAM SIDE OF THE BRIDGE AND BE ACCESSIBLE BY FOOT AT ALL POINTS FROM THE LEVEL GRADE AREA TO THE TERMINATION AT THE LOW FLOW CHANNEL. TRUCK ACCESS IS NECESSARY TO THE 8.0 SQUARE FOOT PAD AREA BUT NOT TO OTHER POINTS ALONG THE CONDUIT. ALONG WITH THIS PHYSICAL ACCESS CONCOMITANT RIGHTS OF ACCESS AND/OR EASEMENTS WILL BE GRANTED BY PROPERTY OWNER TO ALLOW FOR MAINTENANCE OF CITY EQUIPMENT INSTALLED ON THIS SITE.



MARC STOUT CITY ENGINEER



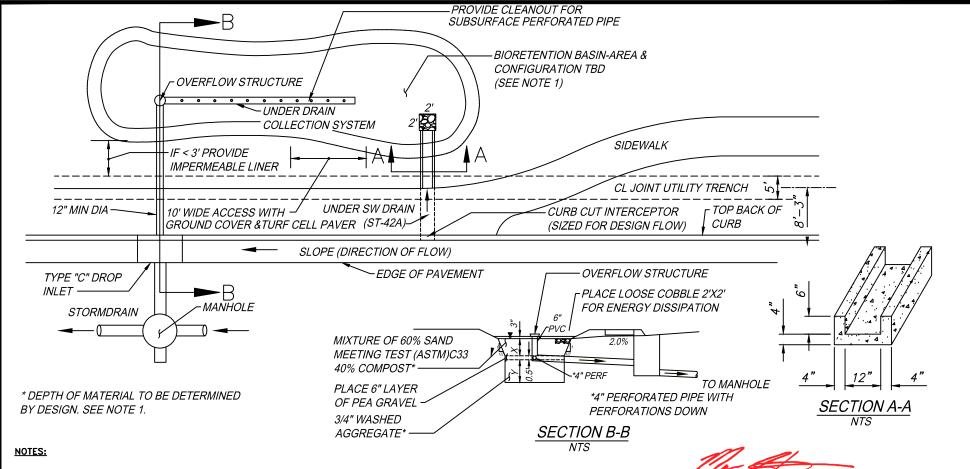
8.0' SQUARE

DEVELOPMENT SERVICES DEPARTMENT

CONDUIT CAPPED

STREAM GAUGING STATION

SCALE: NONE REVISED: JANUARY 1, 2016 DRAWN BY: J HENDRIX APPROVED BY: MARC STOUT



REFER TO THE WEST PLACER STORM WATER QUALITY DESIGN MANUAL (SWQDM) FOR THE DESIGN AND SIZING CRITERIA OF THE BIORENTENTION BASIN. CURB CUT INTERCEPTOR, UNDER SIDEWALK DRAIN, AND INLET CHANNEL TO BE SIZED FOR DESIGN FLOW. SHAPE AND SIZE IS CONCEPTUAL ONLY. ACTUAL SIZE AND SHAPE TO BE DETERMINED BASED ON NEED.

- GRADING TO CONFORM TO SURROUNDING AREA.
- BASINS TO BE SEEDED W/NATURAL SEED (SELF-SOWING BLEND)
- CARE TO BE TAKEN NOT TO CONTAMINATE BIORETENTION SOIL MIX.
- WHEN LESS THAN 3' JOINT FROM UTILITY TRENCH, INSTALL 30 MIL LINER ALONG ADJACENT SIDE OF BIORETENTION BASIN PER SWQDM.
- CONCRETE SHALL CONFORM TO SECTION 71-5B OF THE CITY CONSTRUCTION STANDARDS.
- PENETRATE HARDPAN (IF IT EXISTS) TO ALLOW FOR BETTER PERCOLATION.
- ALL IRRIGATION SHALL BE LOCATED OUTSIDE OF THE BASIN.
- THE OVERFLOW INLET SHALL HAVE A SCREEN WITH 5 mm MAX OPENINGS TO PREVENT TRASH FROM ENTERING THE SYSTEM

Mr H

MARC STOUT CITY ENGINEER



**DEVELOPMENT SERVICES DEPARTMENT** 

STREET-SIDE STORM WATER **BIORETENTION BASIN** 

SCALE: NONE

REVISED: JANUARY 1, 2023 DRAWN BY: J. THOMPSON APPROVED BY: M. STOUT