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BUILDING PLANS

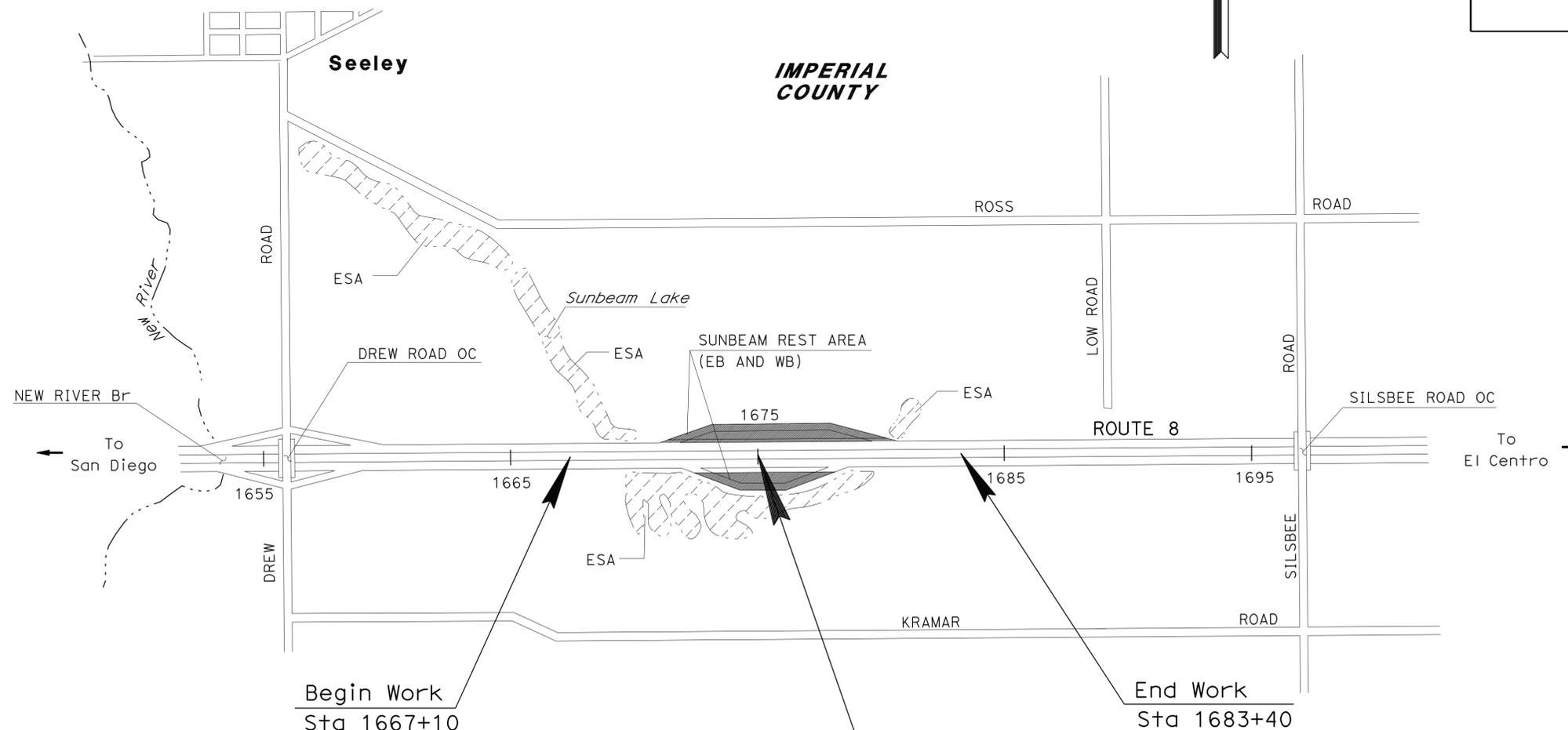
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THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION AND
BUILDING CONSTRUCTION ADJACENT TO
STATE HIGHWAY
IN IMPERIAL COUNTY NEAR EL CENTRO AT
SUNBEAM REST AREAS
(EASTBOUND AND WESTBOUND)

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	8	R31.3	1	73



LEGEND:



Begin Work
Sta 1667+10

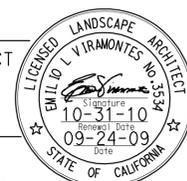
LOCATION OF CONSTRUCTION
PM R31.3 Sta 1675+00

End Work
Sta 1683+40

NO SCALE

LICENSED LANDSCAPE ARCHITECT

February 8, 2010
 PLANS APPROVAL DATE



THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

CONTRACT No. 11-261514

PROJECT MANAGER
TOM HAM
 SENIOR LANDSCAPE ARCHITECT
TOM HAM



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	8	R31.3	3	73

LICENSED LANDSCAPE ARCHITECT
 2-8-10
 PLANS APPROVAL DATE

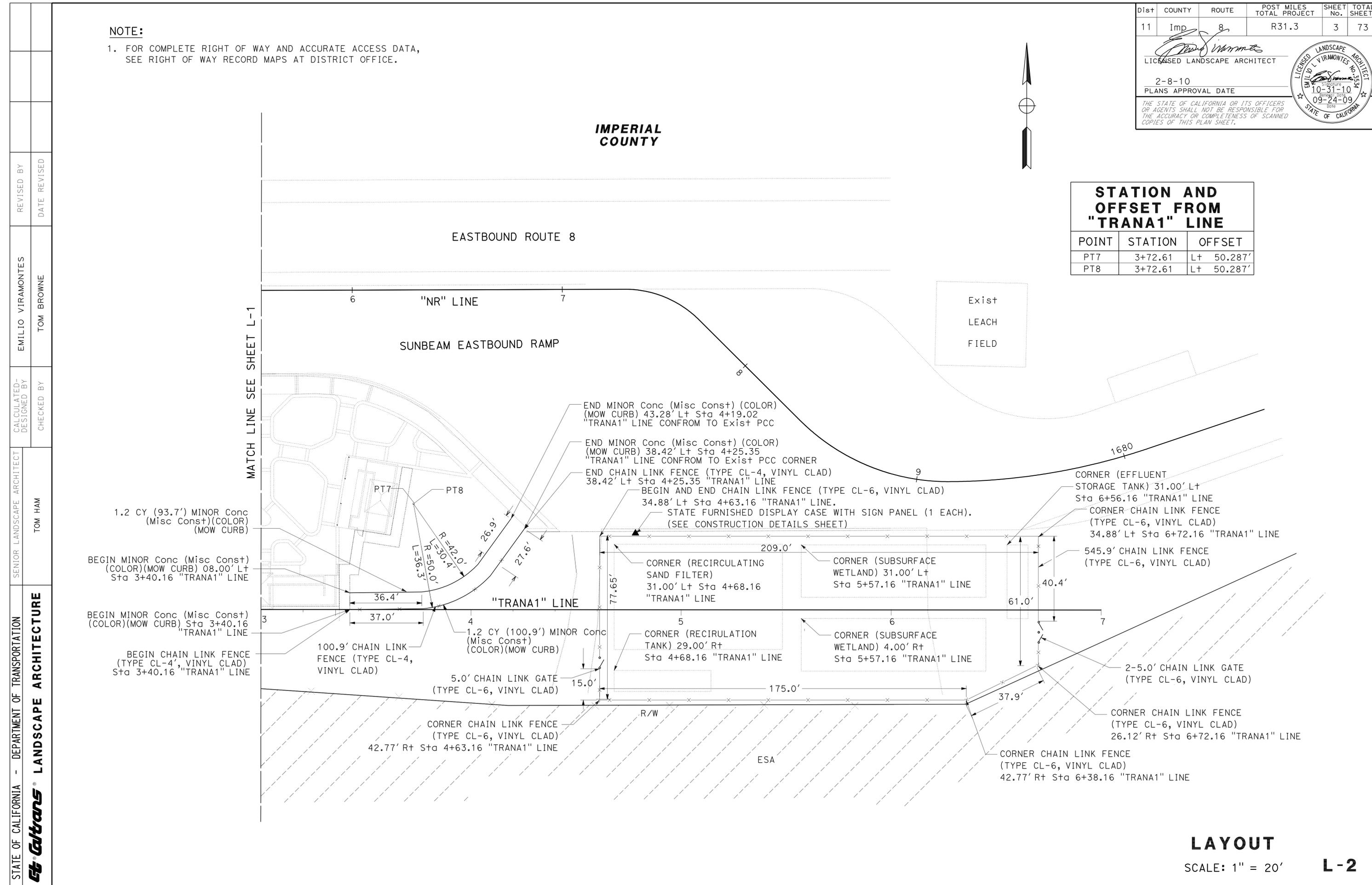
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



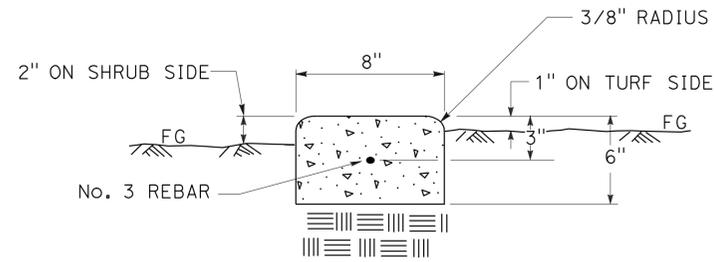
STATION AND OFFSET FROM "TRANA1" LINE		
POINT	STATION	OFFSET
PT7	3+72.61	Lt 50.287'
PT8	3+72.61	Lt 50.287'



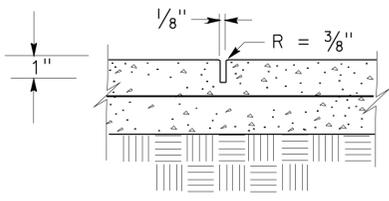
REVISOR: EMILIO VIRAMONTES, TOM BROWNE
 CHECKED BY: TOM HAM
 SENIOR LANDSCAPE ARCHITECT
 DEPARTMENT OF TRANSPORTATION
 LANDSCAPE ARCHITECTURE
 STATE OF CALIFORNIA

LAYOUT
SCALE: 1" = 20' **L-2**

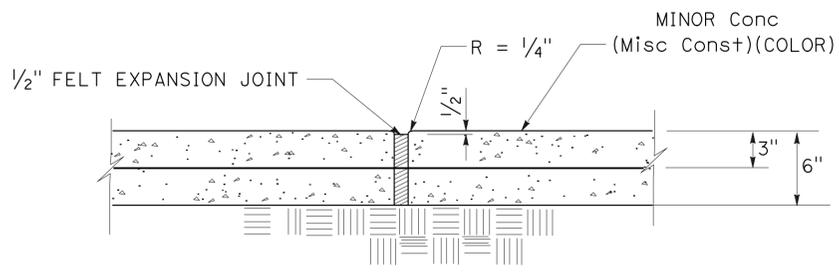
LAST REVISION: 11-04-09
 DATE PLOTTED => 11-FEB-2010
 TIME PLOTTED => 05:27



SECTION



CONTROL JOINT

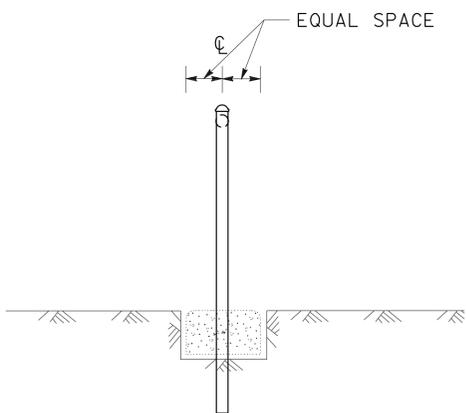


EXPANSION JOINT

NOTES:

1. Reinf SHALL BE CONTINUOUS WITH 12" OVERLAP AT SPLICES.
2. INSTALL EXPANSION JOINTS EVERY 60' AND WHERE MOW STRIP ABUTS ANY IMPROVEMENTS.
3. INSTALL CONTROL JOINTS EVERY 10'.

MINOR CONCRETE (MISCELLANEOUS CONSTRUCTION) (COLOR) (MOW CURB)

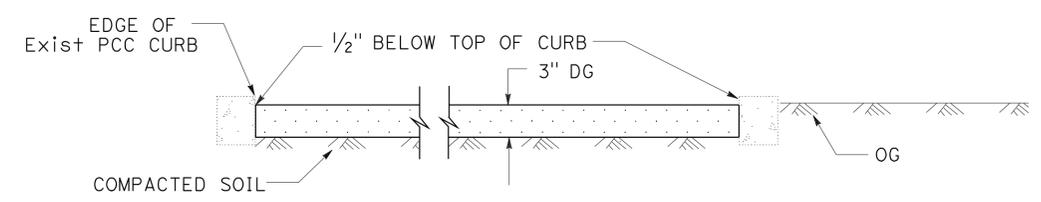


SECTION

CHAIN LINK FENCE AT MOW CURB

THRUST BLOCK DETAIL			
INSTALLATION	TYPE FITTING	INSTALLATION	TYPE FITTING
	90° ELL		DEAD END
	45° BEND		GATE VALVE
	22.5° BEND		45° VERTICAL BEND (TYPE I)
	11.25° BEND		45° VERTICAL BEND (TYPE II)
	TEE		

NOTES:
 Min 1 F+3 PCC FOR PIPE 1 1/2" AND SMALLER.
 Min 2 F+3 PCC FOR PIPE 2" AND LARGER.
 USE #3 REINFORCING BAR WHERE SHOWN.



SECTION

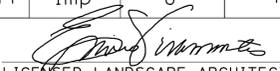
DECOMPOSED GRANITE (DG)

CONSTRUCTION DETAILS

NO SCALE

C-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	8	R31.3	6	73


 LICENSED LANDSCAPE ARCHITECT
 2-8-10
 PLANS APPROVAL DATE



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NOTE:

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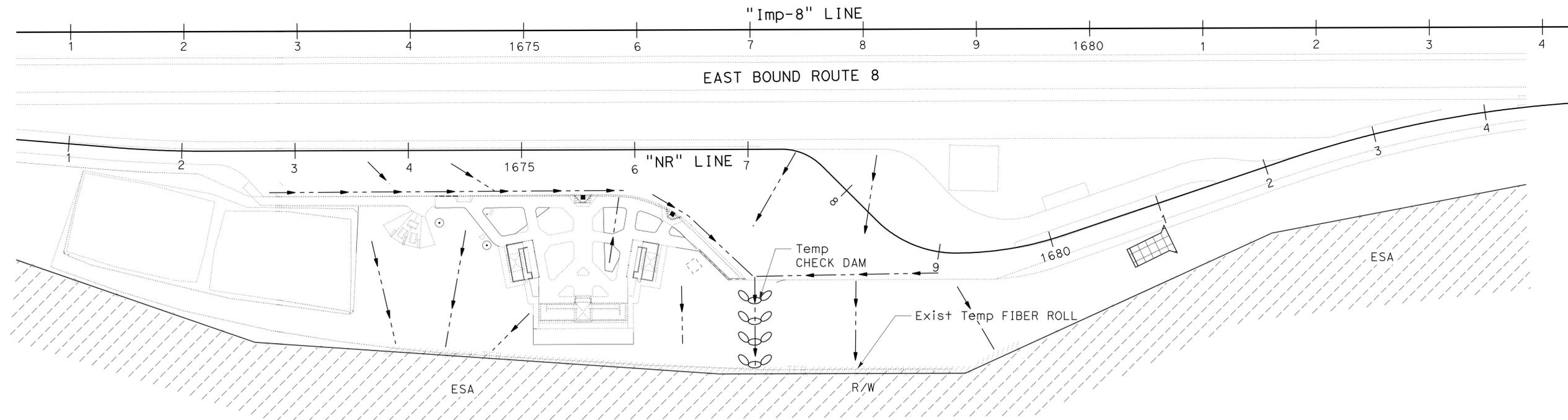
LEGEND:

-  Temp CONSTRUCTION ENTRANCE
-  Temp CHECK DAM
-  CONCENTRATED FLOW
-  ENVIRONMENTALLY SENSITIVE AREA

TEMPORARY WATER POLLUTION CONTROL QUANTITIES		
SHEET	TEMPORARY CONSTRUCTION ENTRANCE	TEMPORARY CHECK DAM
	(TYPE 1) EA	LF
WPC-1	1	40
TOTAL	1	40



IMPERIAL COUNTY



TEMPORARY WATER POLLUTION CONTROL PLAN AND QUANTITIES
 SCALE: 1" = 50'
WPC-1

THIS PLAN ACCURATE FOR TEMPORARY WATER POLLUTON CONTROL WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
 TOM HAM
 CALCULATED-DESIGNED BY
 CHECKED BY
 EMILIO VIRAMONTES
 TOM BROWNE
 REVISED BY
 DATE REVISED



NOTES:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.
2. UTILITIES ARE FOR INFORMATION ONLY.
3. UTILITIES SHALL BE FIELD VERIFIED.

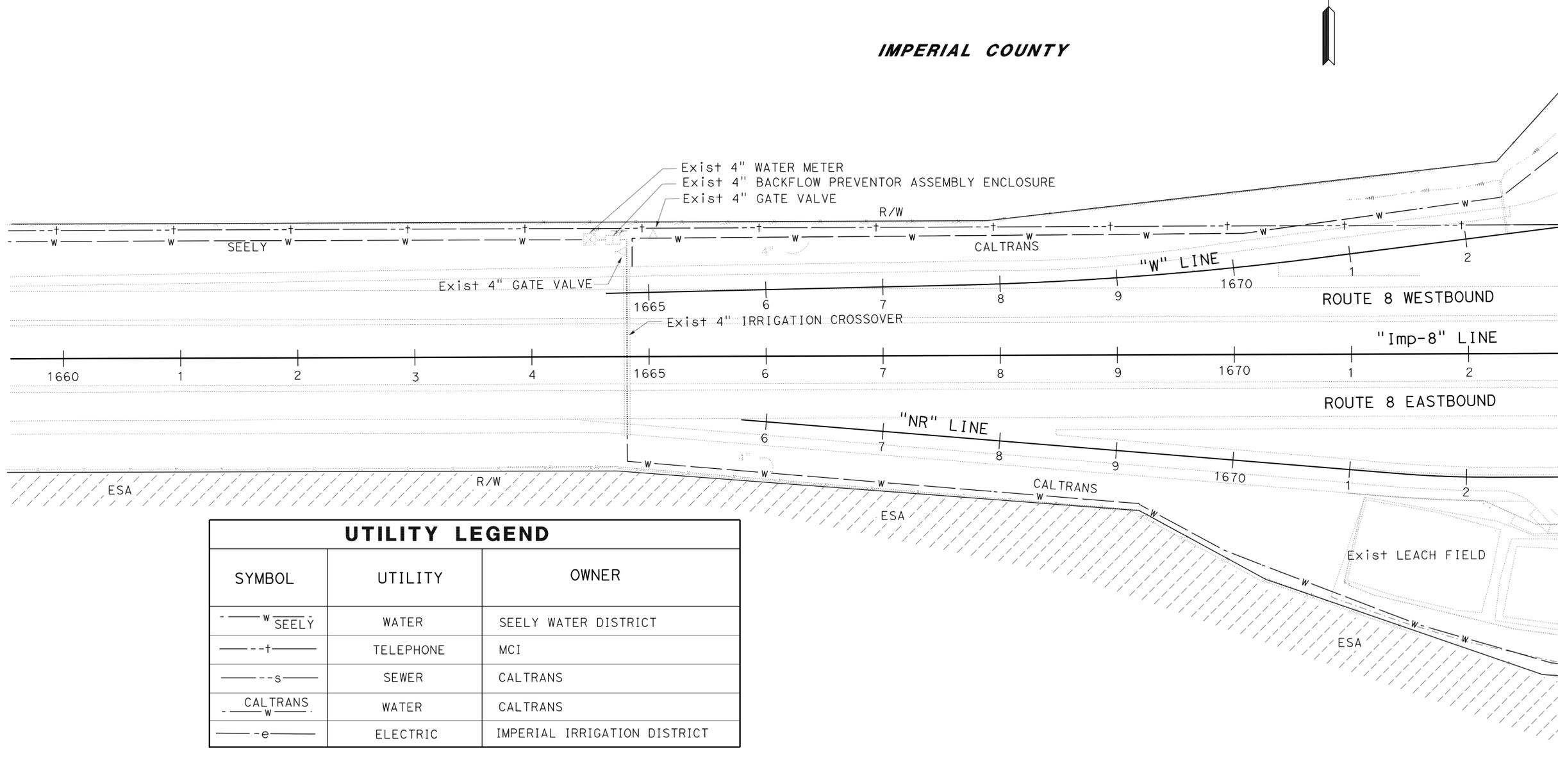
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	8	R31.3	7	73

Anh Hoang 08-24-09
 REGISTERED CIVIL ENGINEER DATE
 2-8-10
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 ANH HOANG
 No. 66009
 Exp. 06-30-10
 CIVIL
 STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

IMPERIAL COUNTY



MATCH LINE SEE SHEET U-2

UTILITY LEGEND		
SYMBOL	UTILITY	OWNER
	WATER	SEELY WATER DISTRICT
	TELEPHONE	MCI
	SEWER	CALTRANS
	WATER	CALTRANS
	ELECTRIC	IMPERIAL IRRIGATION DISTRICT

LEGEND:



- ENVIRONMENTALLY SENSITIVE AREA

UTILITY PLAN
 SCALE: 1" = 50' **U-1**

THIS PLAN ACCURATE FOR UTILITY INFORMATION ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ENGINEERING SERVICES
 FUNCTIONAL SUPERVISOR: BRUCE LAMBERT
 CALCULATED/DESIGNED BY: ANATOLI KOPITCH
 CHECKED BY: EMILIO VIRAMONTES
 REVISED BY: [blank]
 DATE REVISED: [blank]

NOTES:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.
2. UTILITIES ARE FOR INFORMATION ONLY.
3. UTILITIES SHALL BE FIELD VARIFIED.

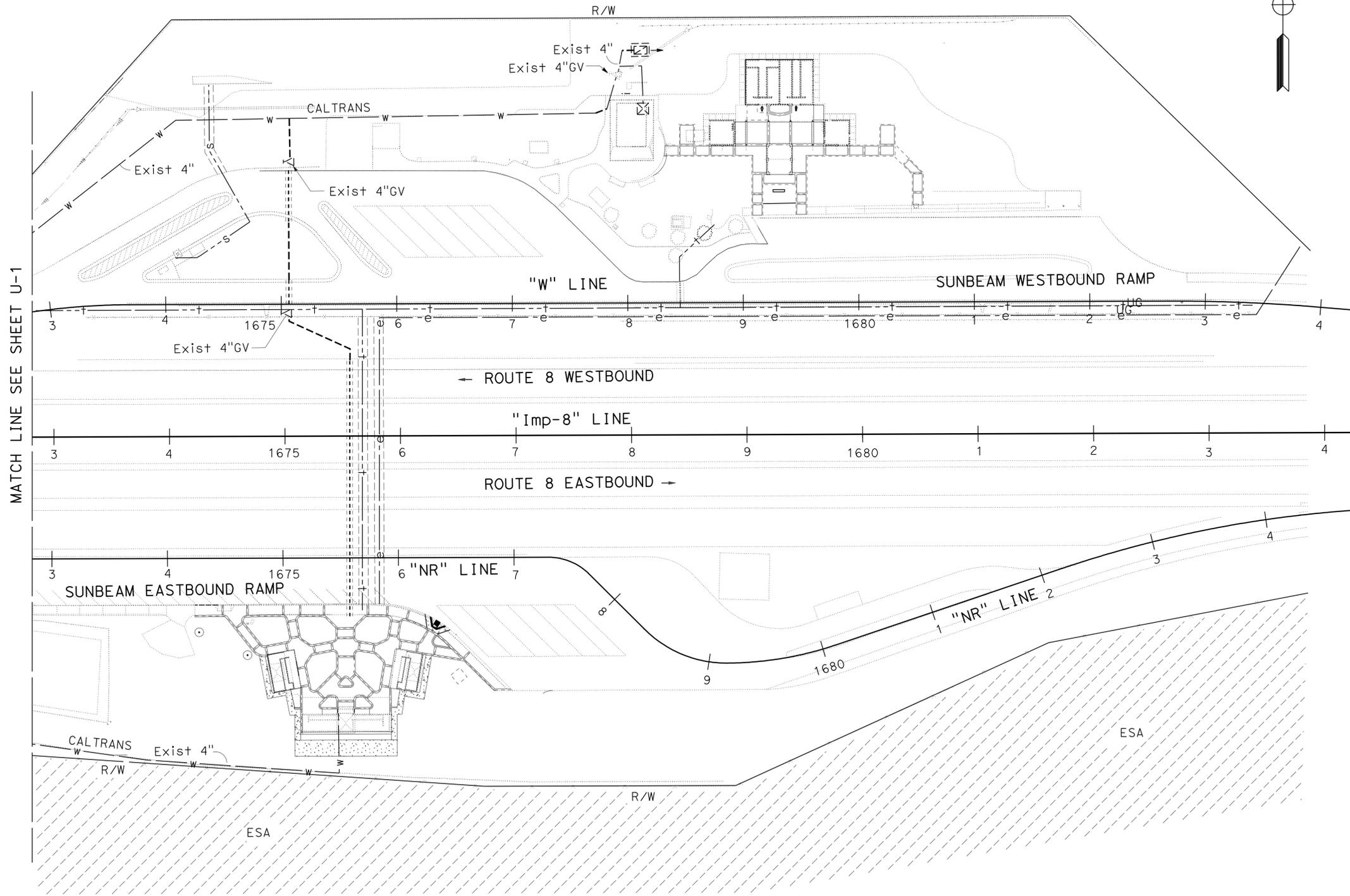
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	8	R31.3	8	73

Anh Hoang 08-24-09
 REGISTERED CIVIL ENGINEER DATE
 2-8-10
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
ANH HOANG
 No. 66009
 Exp. 06-30-10
 CIVIL
 STATE OF CALIFORNIA

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IMPERIAL COUNTY



MATCH LINE SEE SHEET U-1

THIS PLAN ACCURATE FOR UTILITY INFORMATION ONLY.

UTILITY PLAN

SCALE: 1" = 50' **U-2**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	ANATOLI KOPITCH	REVISOR	DATE
Caltrans ENGINEERING SERVICES	EMILIO VIRAMONTES	BY	REVISED
FUNCTIONAL SUPERVISOR	CHECKED BY	DESIGNED BY	DATE
BRUCE LAMBERT			

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	8	R31.3	9	73

08-10-09
 REGISTERED CIVIL ENGINEER DATE
 2-8-10
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 SHAHIN ADIBI
 No. 54839
 Exp. 6/30/10
 CIVIL
 STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

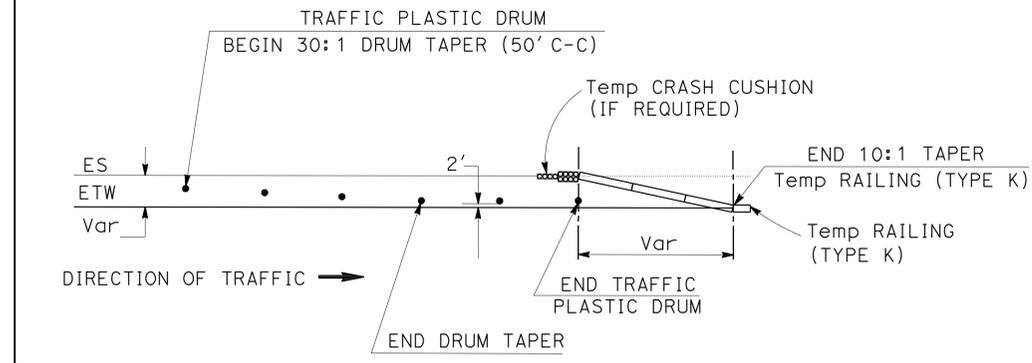
NOTES:

- EXACT LOCATION OF CONSTRUCTION AREA SIGNS SHALL BE DETERMINED BY THE ENGINEER.
- FEDERAL MUTCD SIGN CODES ARE SHOWN UNLESS DESIGNATED BY (CA) INDICATING STANDARD CALIFORNIA SIGN SPECIFICATIONS ARE USED.
- EXISTING UTILITIES ARE NOT SHOWN ON THIS PLAN SHEET. THE CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING UTILITIES AND ADJUST THE FIELD LOCATION OF SIGN POSTS IN CONSULTATION WITH THE ENGINEER.
- DAYS AND DATES MAY VARY. SPECIFY WHEN ORDERING.

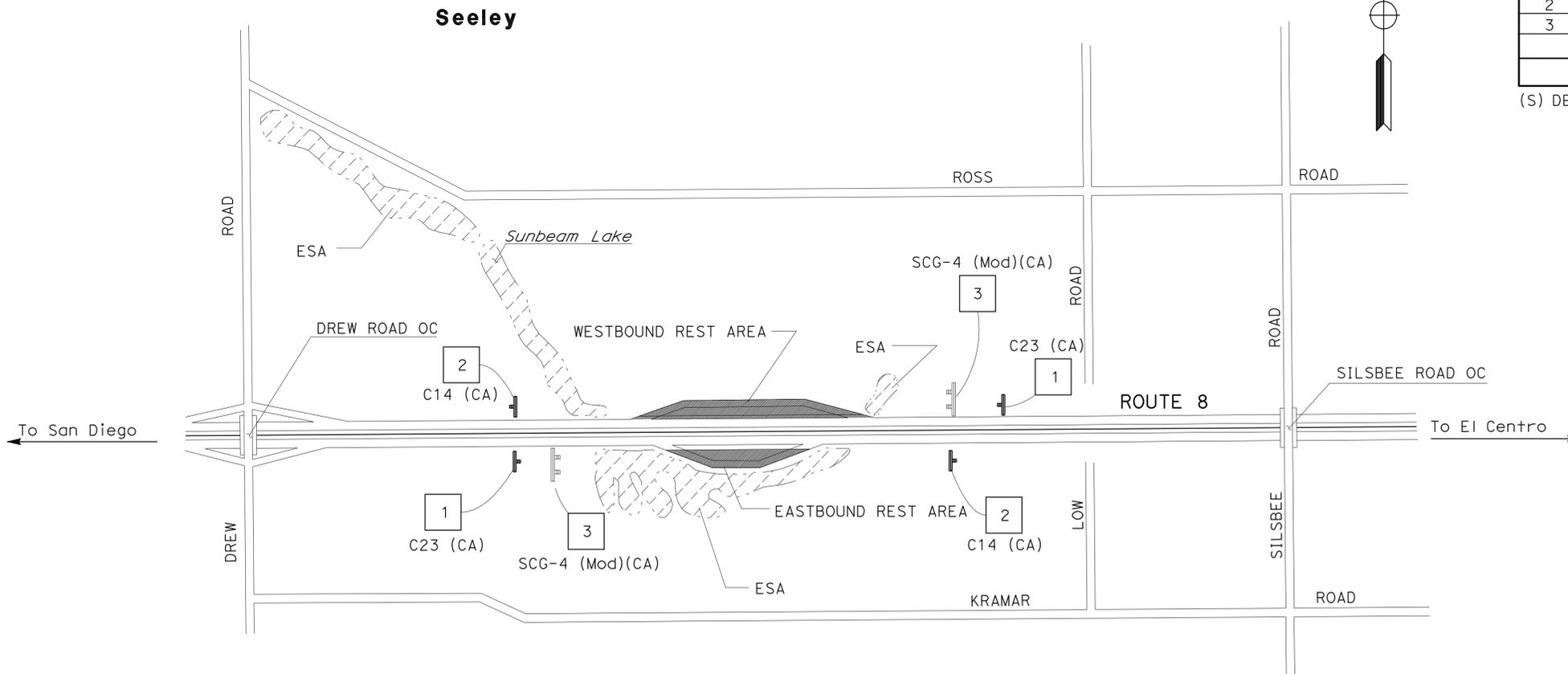
LEGEND:

- X CONSTRUCTION AREA SIGNS
- DIRECTION OF TRAFFIC
- ESA ENVIRONMENTALLY SENSITIVE AREA

TYPICAL PLACEMENT OF TRAFFIC PLASTIC DRUM



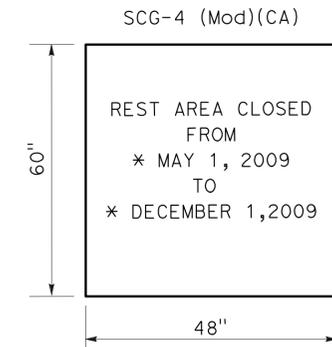
IMPERIAL COUNTY



CONSTRUCTION AREA SIGNS

SIGN No.	TYPE	PANEL SIZE (In)	No. OF POST AND SIZE (In)	No. OF SIGNS
1	C23 (CA)	48 X 48	1-4 X 6 (S)	2
2	C14 (CA)	48 X 24	1-4 X 4 (S)	2
3	SCG-4 (Mod)(CA)	60 X 48	2-4 X 6 (S)	2
TOTAL				6

(S) DENOTES STATIONARY MOUNTED SIGN



SIGN #3
* SEE NOTE 4

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE

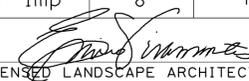
SENIOR LANDSCAPE ARCHITECT
 TOM HAM

CALCULATED-DESIGNED BY
 CHECKED BY

EMILIO VIRAMONTES
 TOM BROWNE

REVISED BY
 DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	8	R31.3	10	73


 LICENSED LANDSCAPE ARCHITECT
 2-8-10
 PLANS APPROVAL DATE



THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

INSTALL STATE FURNISHED DISPLAY CASE WITH SIGN PANEL

SHEET	EA
L-2	1
TOTAL	1

CHAIN LINK FENCE (TYPE CL-4, VINYL-CLAD)

SHEET	LF
L-1	160.8
L-2	100.9
TOTAL	261.7

MINOR Conc (Misc Const)(COLOR)

	LF(N)	CY	REMARKS
L-1	363.6	4.5	MOW CURB
L-2	194.6	2.4	MOW CURB
L-2	-	0.2	DISPLAY CASE
TOTAL		7.1	

CHAIN LINK FENCE (TYPE CL-6, VINYL-CLAD)

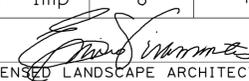
SHEET	LF
L-2	545.9
TOTAL	545.9

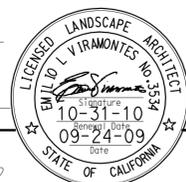
5' CHAIN LINK GATE (TYPE CL-6, VINYL-CLAD)

SHEET	EA
L-2	3
TOTAL	3

SUMMARY OF QUANTITIES
Q-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	8	R31.3	11	73


 LICENSED LANDSCAPE ARCHITECT
 2-8-10
 PLANS APPROVAL DATE



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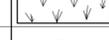
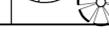
NOTES:

1. UNDERLINED PORTIONS OF BOTANICAL NAMES INDICATE ABBREVIATIONS USED ON PLANTING PLANS.
2. ALL SIZES AS PER PLANT LIST EXCEPT WHERE NOTED ON PLANTING PLANS.

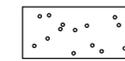
ABBREVIATIONS:

- | | |
|----------------------------|--------------------------------|
| Amend — AMENDMENT | No. — NUMBER |
| B&B — BALLED AND BURLAPPED | Pkt — PACKET(S) |
| Dia — DIAMETER | PLT ESTB — PLANT ESTABLISHMENT |
| EA — EACH | Pvmt — PAVEMENT |
| Oz — OUNCE | R/W — RIGHT OF WAY |
| Lb — POUND | SQFT — SQUARE FEET |
| yd — YARD | TAB — TABLET(S) |
| SQYD — SQUARE YARD | TRVD — TRAVELED |
| CY — CUBIC YARD | BTH — BROWN TRUNK HEIGHT |
| Max — MAXIMUM | " — INCH |
| Min — MINIMUM | ' — FOOT |

PLANT LIST AND PLANTING SPECIFICATIONS

PLANT GROUP	PLANT No.	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY EACH	HOLE SIZE (INCH)		BASIN TYPE ⑨	IRON SULFATE ①	SOIL Amend ①	COMMERCIAL FERTILIZER ①		BASIN MULCH (CY)	STAKING	PLANTING LIMITS						REMARKS	
							Dia	DEPTH				PLANTING	PLT ESTB			MINIMUM DISTANCE (F+) FROM				ON CENTER (F+)			
																TRVD WAY	Pvmt	FENCE	WALL		PAVED DITCH		EARTH DITCH
G	1		ALOE <u>BREVIFOLIA</u>	SHORT LEAVED ALOE	ROOTED CUTTINGS	2400	②	②	—	—	—	8 Lb/1000 SQFT	—	—	—	—	—	—	—	—	—	0.75	GROUND COVER
T	2		CYNODON <u>DACTYLON</u> 'SANTA ANA'	SANTA ANA BERMUDA GRASS	TURF SOD	11,540 SQFT	—	—	—	—	—	8 Lb/1000 SQFT	4 Lb/1000 SQFT	—	—	—	—	—	—	—	—	—	TURF (SOD)
B	3		DASYLIRION <u>WHEELERI</u>	DESERT SOTOL	5 GAL	46	③	③	—	1/2 Lb	—	5 Pkt	1/2 Lb	—	—	—	—	—	—	—	—	3	SHRUB
	4		CAESALPINIA <u>GILLIESII</u>	MEXICAN BIRD OF PARADISE	5 GAL	35	③	③	—	1/2 Lb	—	5 Pkt	1/2 Lb	—	—	—	—	—	—	—	—	3	SHRUB
	5		ALOE <u>ARBORESCENS</u>	TREE ALOE	5 GAL	33	③	③	—	1/2 Lb	—	5 Pkt	1/2 Lb	—	—	—	—	—	—	—	—	3	SHRUB
K	6		DALBERGIA <u>SISSOO</u>	SISSOO TREE	24" BOX	29	③	③	—	1/2 Lb	—	20 Pkt	1/2 Lb	—	⑥	—	—	—	—	—	—	④	TREE
Z	7		PHOENIX <u>DACTILIFERA</u>	DATE PALM	10' BTH	6	③	③	—	1/2 Lb	—	20 Pkt	1/2 Lb	—	—	—	—	—	—	—	—	④	TREE (MALE)

LEGEND:

-  ESA - ENVIRONMENTALLY SENSITIVE AREA
-  - DECOMPOSED GRANITE (DG) (3" DEEP)
-  T - TRANSPLANT PALM TREE
-  - EXISTING TREE (TO REMAIN)

APPLICABLE WHEN CIRCLED:

- ① - QUANTITIES SHOWN ARE 'PER PLANT' UNLESS SHOWN AS SQFT APPLICATION RATES.
- ② - SUFFICIENT TO RECEIVE ROOT BALL.
- ③ - DOUBLE THE SIZE OF THE ROOT BALL.
- ④ - AS SHOWN ON PLANS.
- 5 - UNLESS OTHERWISE SHOWN ON PLANS.
- ⑥ - SEE STANDARD PLAN DETAIL.
- 7 - SEE TREE GRATE PLANTING DETAIL.
- 8 - ALTERNATE PLANTING OF EACH VINE TYPE.
- 9 - SEE LANDSCAPE DETAILS SHEET.

TRANSPLANT PALM TREE (MULTI-TRUNK)	
SHEET	EACH
PP-1	1

DECOMPOSED GRANITE (N)	
SHEET	CY
PP-1	81
TOTAL	81

(N) = NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

**PLANT LIST
PL-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 EMILIO VIRAMONTES - LANDSCAPE ARCHITECT
 TOM HAM - SENIOR LANDSCAPE ARCHITECT
 TOM BROWNE - CHECKED BY
 REVISOR: [] DATE: []
 REVISOR: [] DATE: []

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	8	R31.3	12	73

LICENSED LANDSCAPE ARCHITECT
 2-8-10
 PLANS APPROVAL DATE

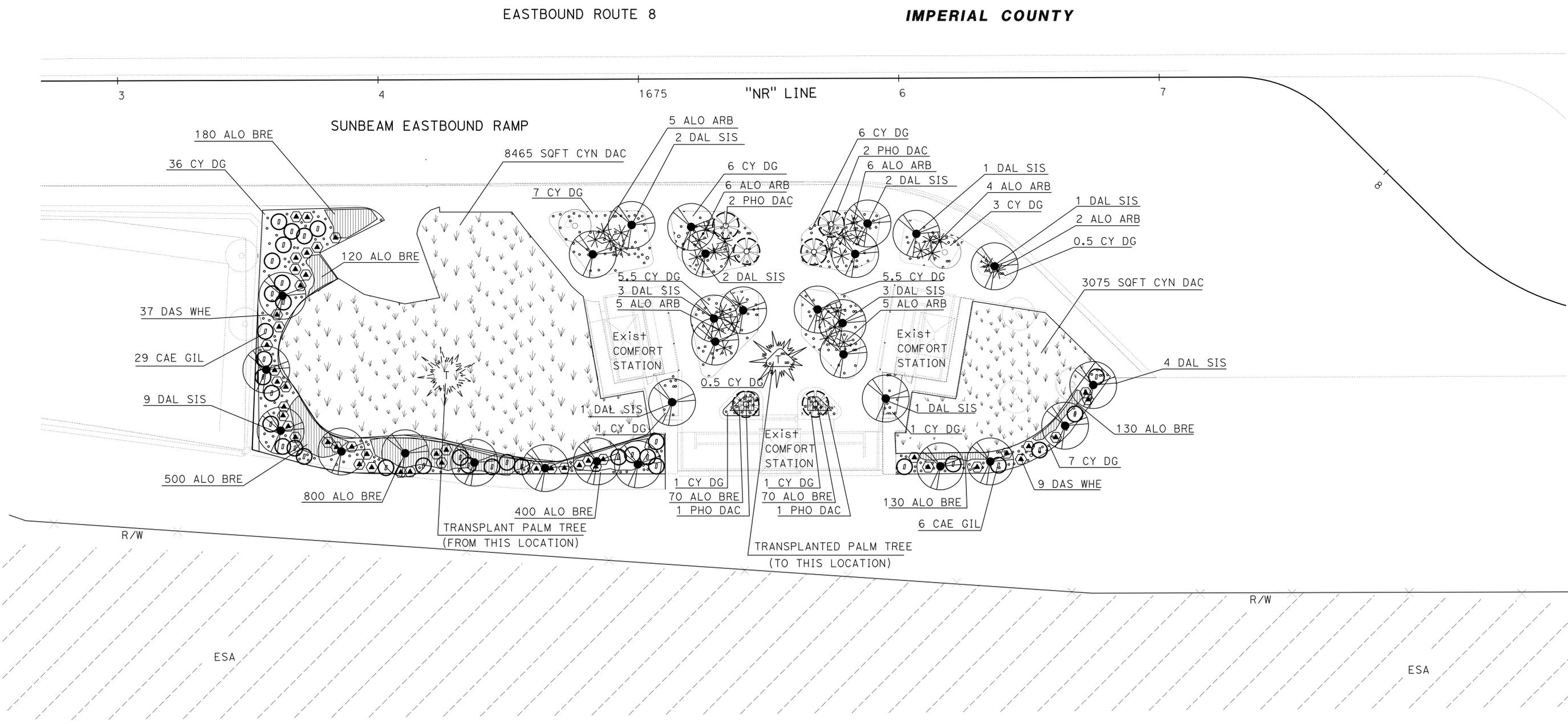
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



NOTES:

- FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.
- EXISTING UTILITIES HAVE NOT BEEN PLOTTED ON THIS PLAN.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
 EMILIO VIRAMONTES
 REVISOR
 TOM BROWNE
 CHECKED BY
 TOM HAM
 DESIGNED BY
 TOM HAM



THIS PLAN ACCURATE FOR PLANTING WORK ONLY.

PLANTING PLAN

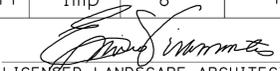
SCALE: 1" = 20'

PP-1

NOTES:

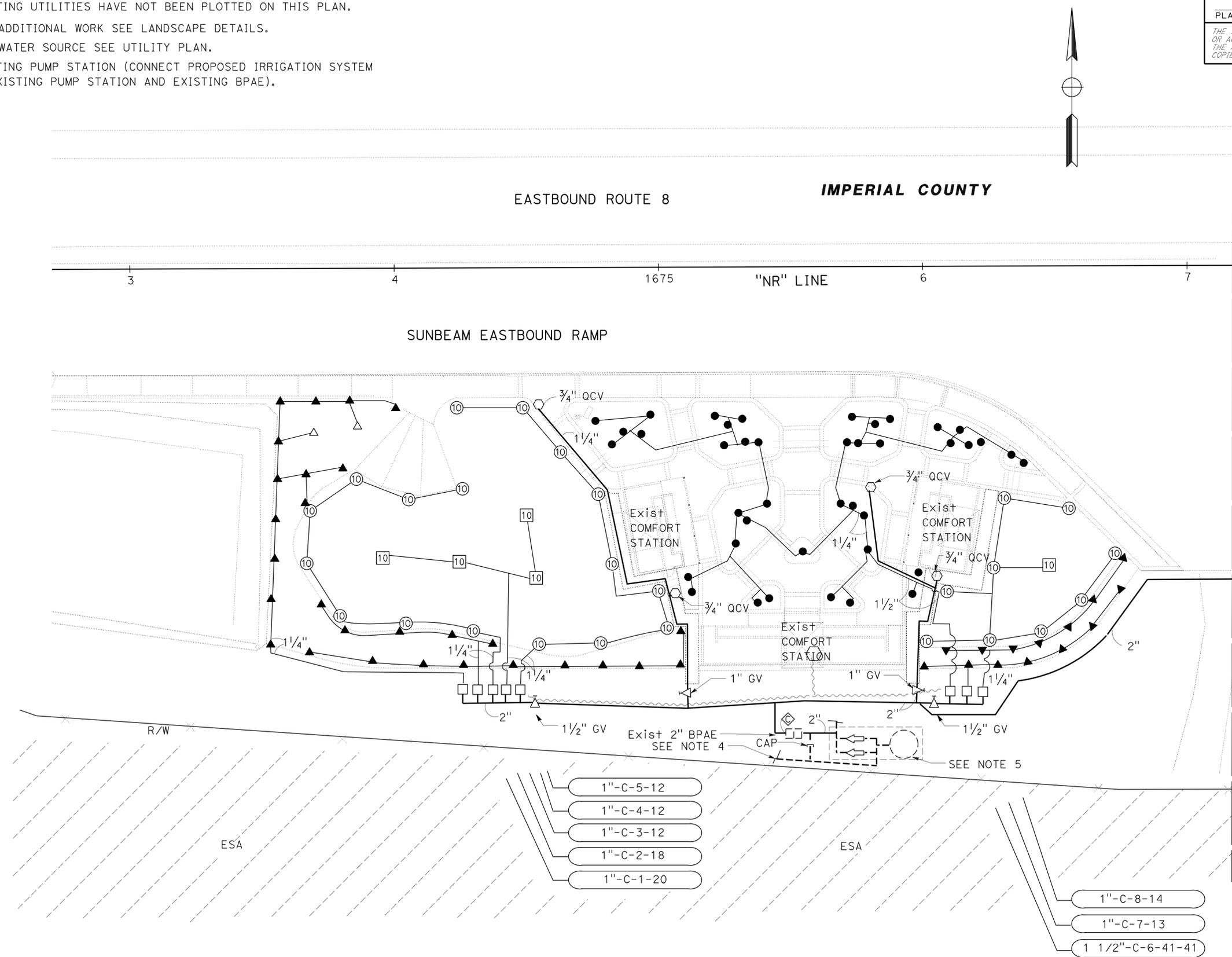
1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.
2. EXISTING UTILITIES HAVE NOT BEEN PLOTTED ON THIS PLAN.
3. FOR ADDITIONAL WORK SEE LANDSCAPE DETAILS.
4. FOR WATER SOURCE SEE UTILITY PLAN.
5. EXISTING PUMP STATION (CONNECT PROPOSED IRRIGATION SYSTEM TO EXISTING PUMP STATION AND EXISTING BPAE).

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	8	R31.3	13	73


 LICENSED LANDSCAPE ARCHITECT
 2-8-10
 PLANS APPROVAL DATE



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MATCH LINE SEE SHEET IP-2

IRRIGATION CONTROLLER 'C'
12 STATIONS
7 STATIONS USED

- 1"-C-5-12
- 1"-C-4-12
- 1"-C-3-12
- 1"-C-2-18
- 1"-C-1-20

- 1"-C-8-14
- 1"-C-7-13
- 1 1/2"-C-6-41-41

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
 EMILTO VIRAMONTES
 CALCULATED-DESIGNED BY
 CHECKED BY
 TOM HAM
 REVISOR BY
 DATE REVISOR
 TOM BROWNE

THIS PLAN ACCURATE FOR IRRIGATION WORK ONLY.

IRRIGATION PLAN
SCALE: 1" = 20' **IP-1**

LAST REVISION | DATE PLOTTED => 11-FEB-2010 | TIME PLOTTED => 05:28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	8	R31.3	14	73

Signature: *Emilio Viramontes*
 LICENSED LANDSCAPE ARCHITECT
 2-8-10
 PLANS APPROVAL DATE

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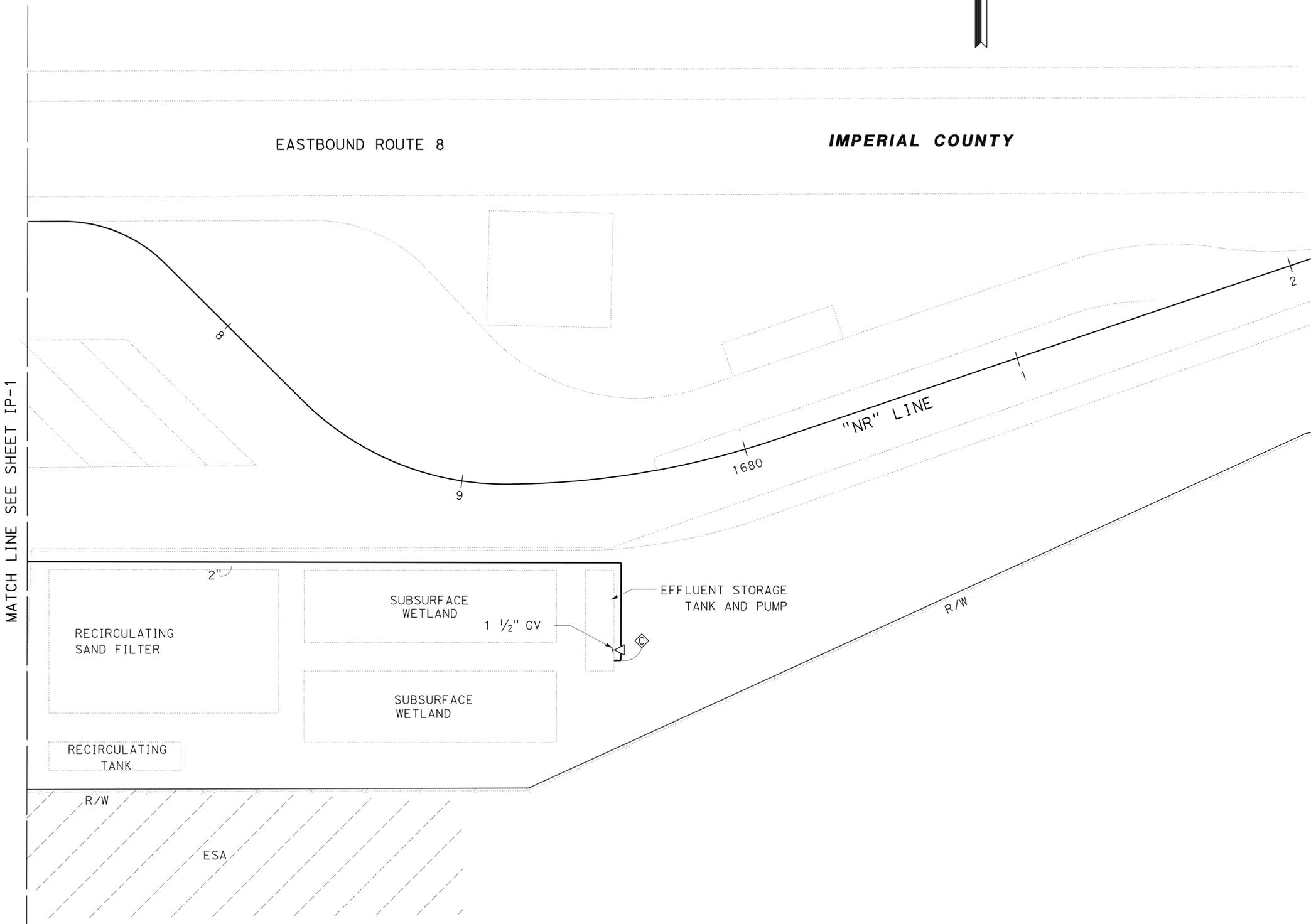
LICENSED LANDSCAPE ARCHITECT
 EMILIO VIRAMONTES No. 3524
 Signature: *Emilio Viramontes*
 10-31-10
 09-24-09
 STATE OF CALIFORNIA

NOTE:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	EMILIO VIRAMONTES	REVISOR BY
LANDSCAPE ARCHITECTURE	TOM BROWNE	DATE REVISED
SENIOR LANDSCAPE ARCHITECT	TOM HAM	CHECKED BY
		DESIGNED BY



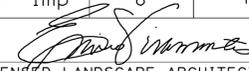
THIS PLAN ACCURATE FOR IRRIGATION WORK ONLY.

IRRIGATION PLAN

SCALE: 1" = 20'

IP-2

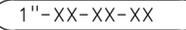
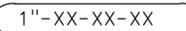
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	8	R31.3	15	73

 LICENSED LANDSCAPE ARCHITECT		
2-8-10 PLANS APPROVAL DATE		
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>		

NOTES:

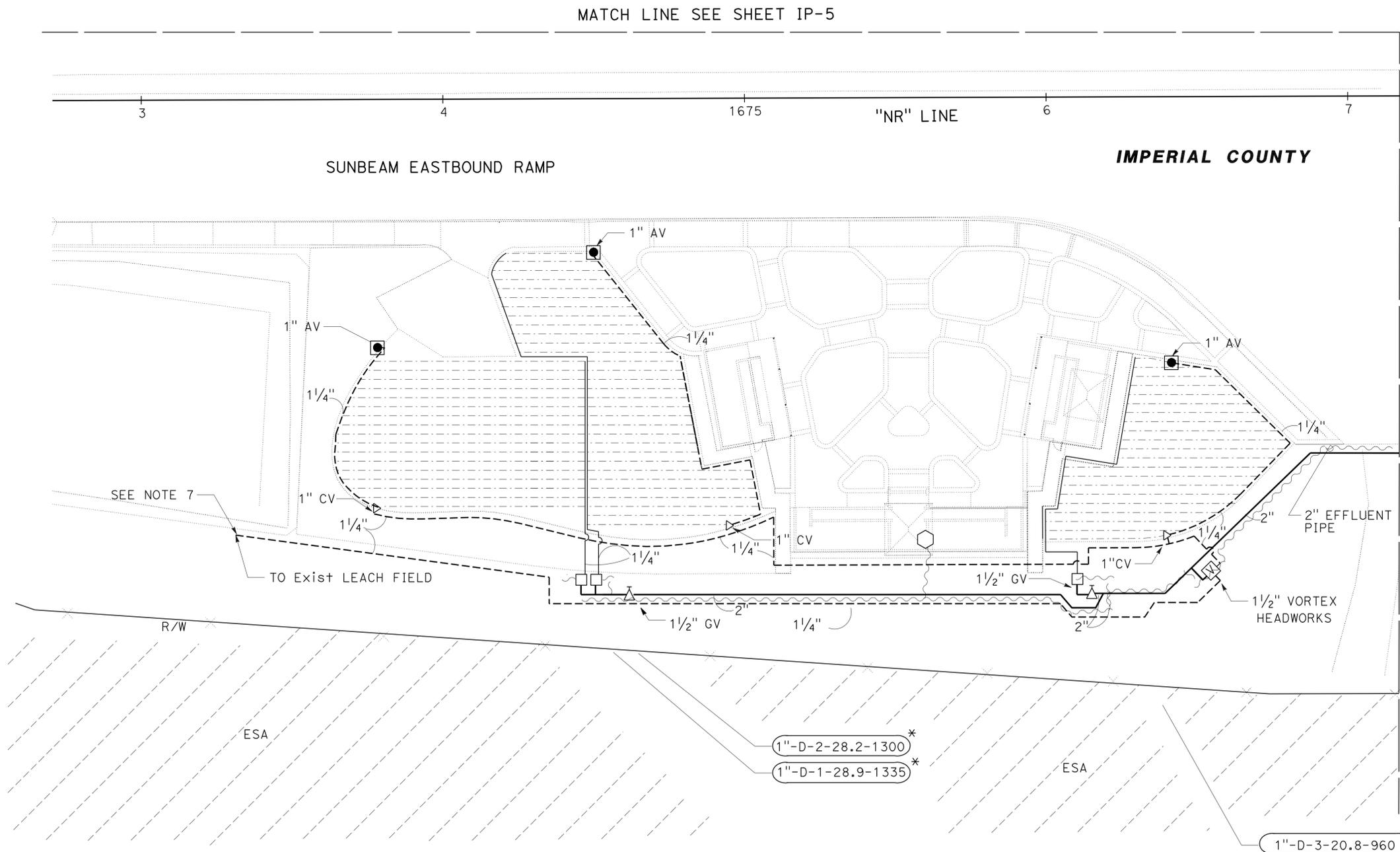
1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.
2. EXISTING UTILITIES HAVE NOT BEEN PLOTTED ON THIS PLAN.
3. FOR ADDITIONAL WORK SEE CONSTRUCTION DETAILS.
4. FOR EFFLUENT WATER POINT OF CONNECTION TO STORAGE TANK SEE MECHANICAL PLANS.
5. CAP EFFLUENT DISPOSAL SYSTEM SUPPLY LINE (MAIN) AND PROVIDE 3 CNC WIRES FOR FUTURE HOOKUP TO RV LEACH FIELD.
6. ALL IRRIGATION FACILITIES SHOWN FOR EFFLUENT DISPOSAL SYSTEM ON THESE SHEETS SHALL BE PURPLE.
7. CONNECT TO EXISTING LEACH FIELD AT DIRECTION OF RESIDENT ENGINEER.

LEGEND:

-  AV = AIR VENT
-  CV = CHECK VALVE
-  DRIP LINE WITH INTEGRAL EMITTERS
-  SCH 40 PVC FLUSH LINE
-  VORTEX HEADWORKS
-  ** EFFLUENT DRIP LINES TO BE PLACED 48" O/C IN Exist LAWN.
-  * EFFLUENT DRIP LINES TO BE PLACED 36" O/C.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
 EMILIO VIRAMONTES
 CALCULATED-DESIGNED BY
 CHECKED BY
 REVISOR BY
 DATE REVISED



IRRIGATION CONTROLLER 'D'
 8 STATIONS
 6 STATIONS USED

1"-D-2-28.2-1300 *
 1"-D-1-28.9-1335 *

1"-D-3-20.8-960 *

**IRRIGATION PLAN
 (EFFLUENT WATER
 DISPOSAL SYSTEM)**
 SCALE: 1" = 20' **IP-3**

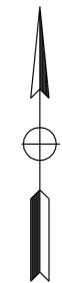
THIS PLAN ACCURATE FOR IRRIGATION (EFFLUENT WATER DISPOSAL SYSTEM) WORK ONLY.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	8	R31.3	16	73

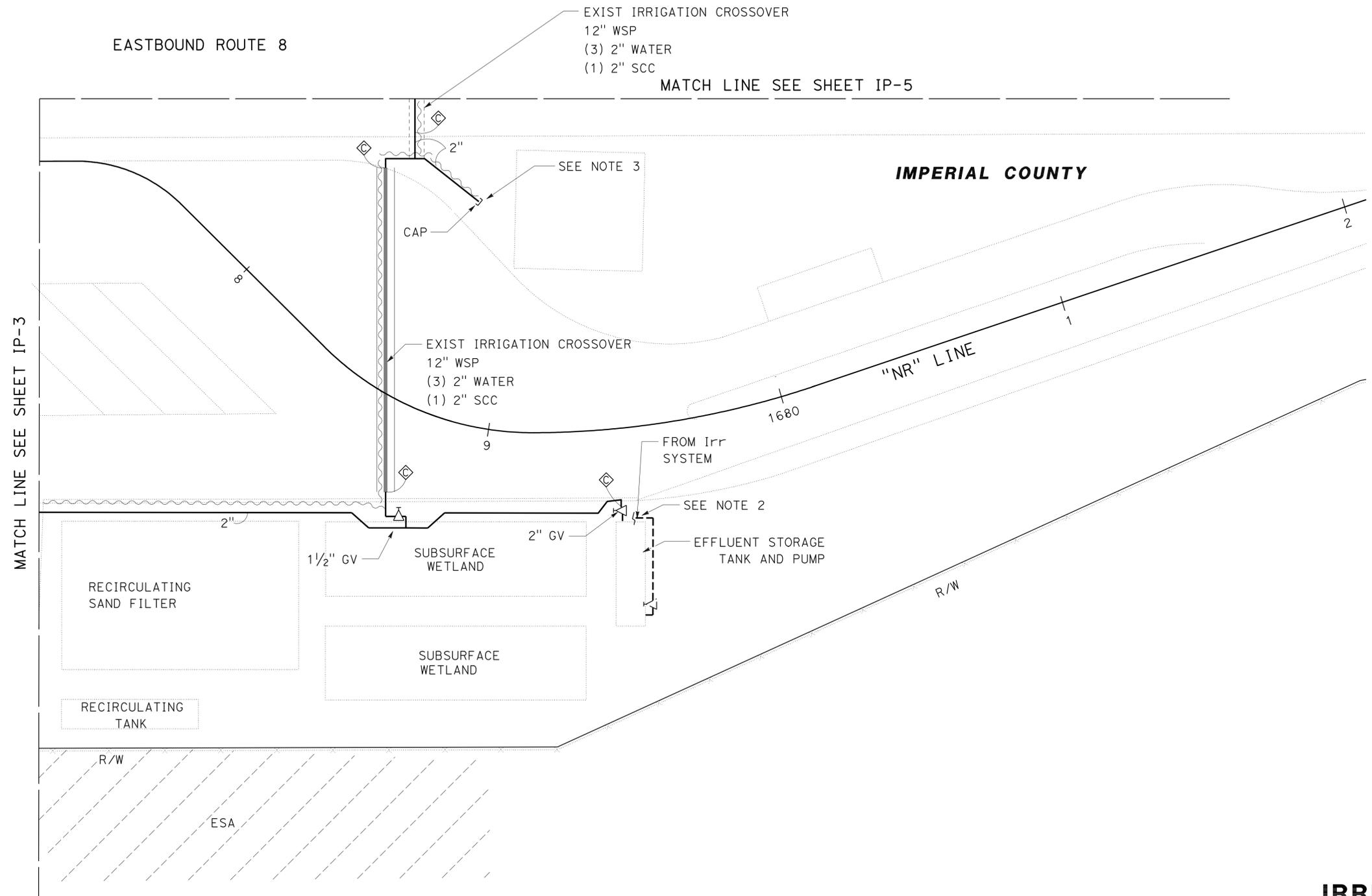
 LICENSED LANDSCAPE ARCHITECT		
2-8-10 PLANS APPROVAL DATE		
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>		

NOTES:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.
2. FOR EFFLUENT WATER POINT OF CONNECTION TO STORAGE TANK SEE MECHANICAL PLANS.
3. CAP EFFLUENT DISPOSAL SYSTEM SUPPLY LINE (MAIN) AND PROVIDE 3 CNC WIRES FOR FUTURE HOOKUP TO RV LEACH FIELD.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	EMILIO VIRAMONTES	REVISOR	DATE
Caltrans LANDSCAPE ARCHITECTURE	TOM BROWNE	DESIGNER	DATE
SENIOR LANDSCAPE ARCHITECT	TOM HAM	CHECKED BY	DATE
		DESIGNED BY	DATE

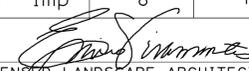


THIS PLAN ACCURATE FOR IRRIGATION (EFFLUENT WATER DISPOSAL SYSTEM) WORK ONLY.

**IRRIGATION PLAN
(EFFLUENT WATER
DISPOSAL SYSTEM)**
SCALE: 1" = 20'

IP-4

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	8	R31.3	17	73

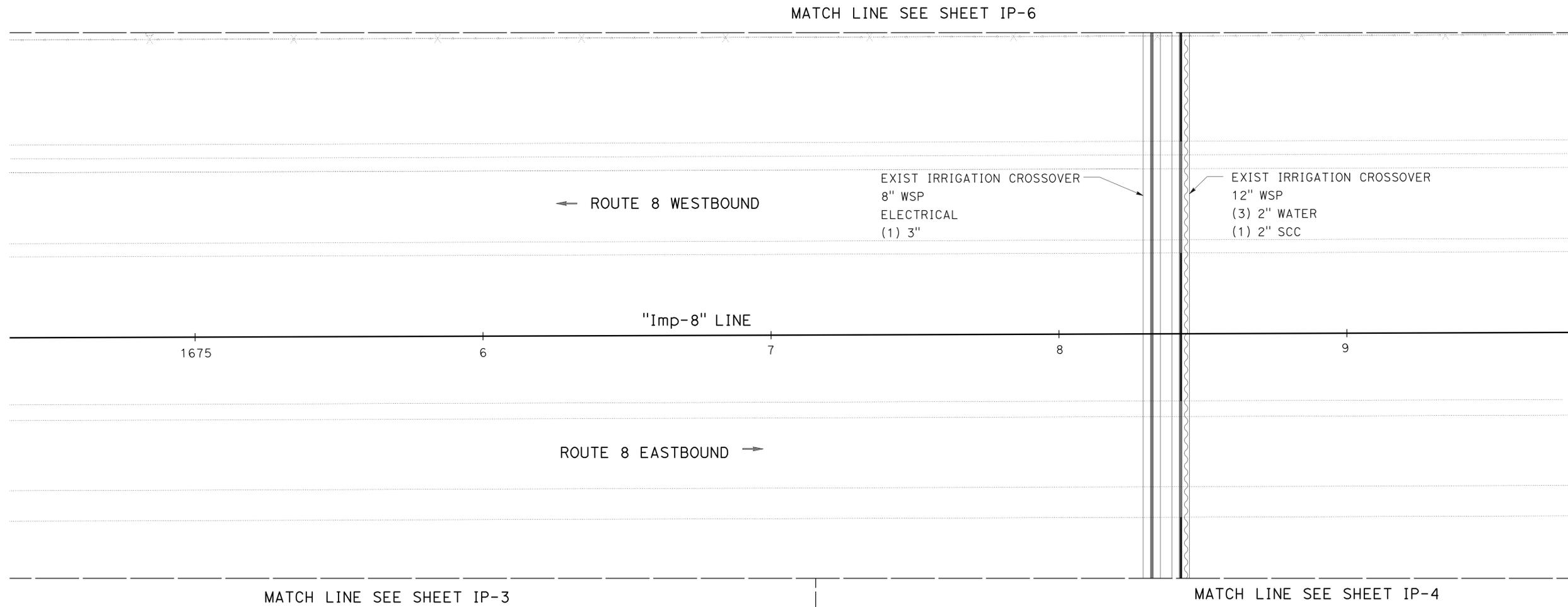

 LICENSED LANDSCAPE ARCHITECT
 2-8-10
 PLANS APPROVAL DATE



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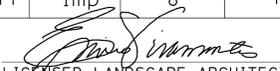
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
 EMILIO VIRAMONTES
 CALCULATED-DESIGNED BY
 CHECKED BY
 TOM HAM
 TOM BROWNE
 REVISED BY
 DATE REVISED



THIS PLAN ACCURATE FOR IRRIGATION (EFFLUENT WATER DISPOSAL SYSTEM) WORK ONLY.

IRRIGATION PLAN
(EFFLUENT WATER DISPOSAL SYSTEM)
 SCALE: 1" = 20'
IP-5

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	8	R31.3	18	73

 LICENSED LANDSCAPE ARCHITECT		
2-8-10 PLANS APPROVAL DATE		

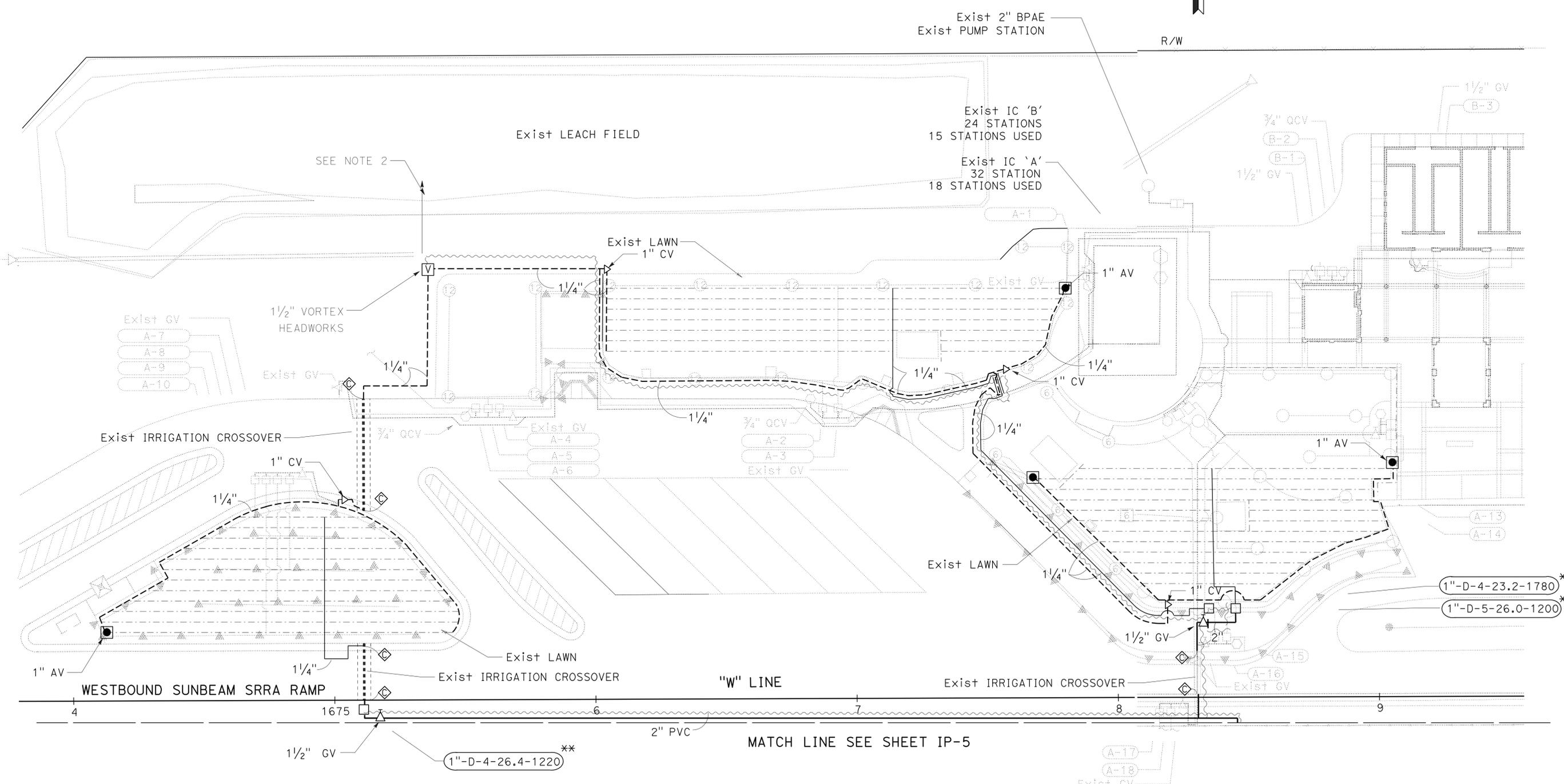
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NOTES:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.
2. CONNECT TO EXISTING LEACH FIELD AT DIRECTION OF RESIDENT ENGINEER.
3. SEE SHEET E-1 FOR EXACT LOCATION OF IRRIGATION CONTROLLER.
4. DRIPLINE TO BE INSTALLED UNDER EXISTING TURF AREAS BY MEANS OF PULLING.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
 EMILIO VIRAMONTES
 REVISIONS: (None)
 CHECKED BY: TOM HAM
 DESIGNED BY: EMILIO VIRAMONTES
 JOSEPH IRION
 DATE REVISION: (None)
 DATE: (None)



SUNBEAM REST AREA - WEST BOUND

**IRRIGATION PLAN
(EFFLUENT WATER DISPOSAL SYSTEM)**

SCALE: 1" = 20'

IP-6

THIS PLAN ACCURATE FOR IRRIGATION (EFFLUENT WATER DISPOSAL SYSTEM) WORK ONLY.

LAST REVISION: (None)
 DATE PLOTTED => 11-FEB-2010
 TIME PLOTTED => 05:29

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	8	R31.3	19	73


 LICENSED LANDSCAPE ARCHITECT
 2-8-10
 PLANS APPROVAL DATE


 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

SPRINKLER SCHEDULE

SYMBOL	TYPE	DESCRIPTION	SPRAY PATTERN	OPERATING PRESSURE (PSI)	PRESSURE COMPENSATING	PLUS / MINUS 5% ②					MATERIAL	NOZZLE SIZE (INCH)	INLET CONNECTION (NPT) (DN IN INCHES)(INCH)	EFFLUENT WATER DISPOSAL SYSTEM	POTABLE WATER SYSTEM	DIFFUSER PIN	DISTANCE CONTROL FLAP	ADJ DISCHARGE	RISER						SPRINKLER PROTECTOR (TYPE)	REMARKS				
						DISCHARGE			RADIUS (F+)	WIDTH x LENGTH (F+)									MATERIAL		SIZE (IPS) (INCH)	HEIGHT (INCH)	FLOW SHUTOFF DEVICE	SWING JOINT (TYPE)			RISER SUPPORT			
						GALLONS PER SECOND (GPS)	GALLONS PER MINUTE (GPM)	GALLONS PER HOUR (GPH)											PLASTIC	GALVANIZED										
⑩	A-10	GEAR DRIVEN	H	50	-	-	0.8 1.6	-	25	-	PL	-	1/2	-	X	X	-	X	-	-	-	-	1	-	1	⑧⑦③ 6" POP-UP				
⑩	A-10	GEAR DRIVEN	F	50	-	-	3.0	-	25	-	PL	-	1/2	-	X	X	-	X	-	-	-	-	1	-	1	⑧⑦③ 6" POP-UP				
△	B-2	SHRUB SPRAY	F	30	-	-	3.7	-	15	-	PL	-	1/2	-	X	X	-	X	-	-	-	-	1	-	1	⑧③ 6" POP-UP				
▲	B-2	SHRUB SPRAY	H	30	-	-	1.8	-	15	-	PL	-	1/2	-	X	X	-	X	-	-	-	-	1	-	1	⑧⑦③ 6" POP-UP				
●	C-2 (Mod)	FLOOD BUBBLER	-	20	X	-	1.0	-	-	-	PL	-	1/2	-	X	X	-	-	-	II	X	-	1/2	6	-	1	-	-	④⑨	
---	RD	DRIPLINE WITH INTERGRAL EMITTERS	-	25	X	-	0.017	1.0	-	-	PL	-	1/2	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	USE PURPLE PIPE ONLY

APPLICABLE WHEN CIRCLED BELOW:

1 - SEE SPECIAL PROVISIONS.

② - IF A PRESSURE COMPENSATING DEVICE IS SPECIFIED, THE DISCHARGE AND RADII SHOWN REFLECT ITS USE.

③ - SHALL HAVE AN INTERNAL OR EXTERNAL CHECK VALVE.

④ - NON-ADJUSTABLE DISCHARGE RATE.

5 - REQUIRED ADJACENT TO SHOULDERS, CURBS, SIDEWALKS, AND DIKES.

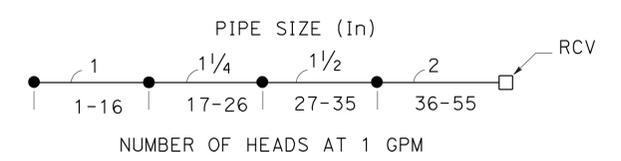
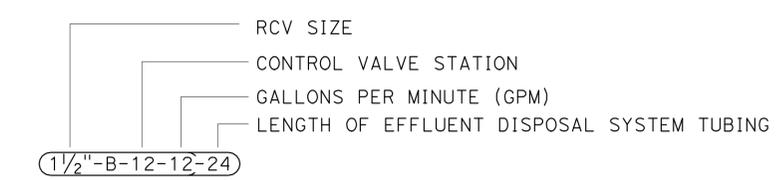
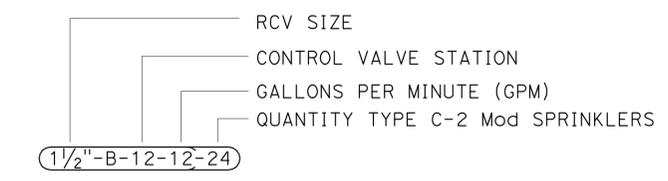
6 - UNLESS OTHERWISE SHOWN ON PLANS.

X IN BOX DENOTES REQUIREMENT

ABBREVIATIONS:

ADJ — ADJUSTABLE	H — HALF CIRCLE
B/B — BRASS/BRONZE	IPS — IRON PIPE SIZE
B/B/PL — BRASS/BRONZE/PLASTIC	NPT — NATIONAL PIPE THREAD
B/PL — BRASS/PLASTIC	P — PART CIRCLE
CST — CENTER STRIP	PL — PLASTIC
DN — DIAMETER NOMINAL	PSI — POUNDS PER SQUARE INCH
EST — END STRIP	Q — QUARTER CIRCLE
F+ — FEET	SST — SIDE STRIP
F — FULL CIRCLE	T — THIRD CIRCLE
F/P — FULL/PART CIRCLE	TO — THREE QUARTER CIRCLE
GPH — GALLONS PER HOUR	TT — TWO THIRDS CIRCLE
GPM — GALLONS PER MINUTE	
GPS — GALLONS PER SECOND	

- NOTES:**
- ALL NEW LATERAL PIPE NOT LABELED SHALL BE 1 INCH, OR AS SHOWN ON PIPE SIZING CHARTS.
 - ALL EFFLUENT WATER EQUIPMENT SHALL BE PURPLE IN COLOR AND/OR LABELED AS PER IMPERIAL COUNTY DEPARTMENT OF HEALTH REQUIREMENTS. NO PONDING, RUNOFF OR OVERSPRAY IS PERMITTED. ADJUST ALL SPRINKLER HEADS TO PREVENT OVERSPRAYING ONTO SIDEWALKS, STREETS AND PRIVATE LOTS.

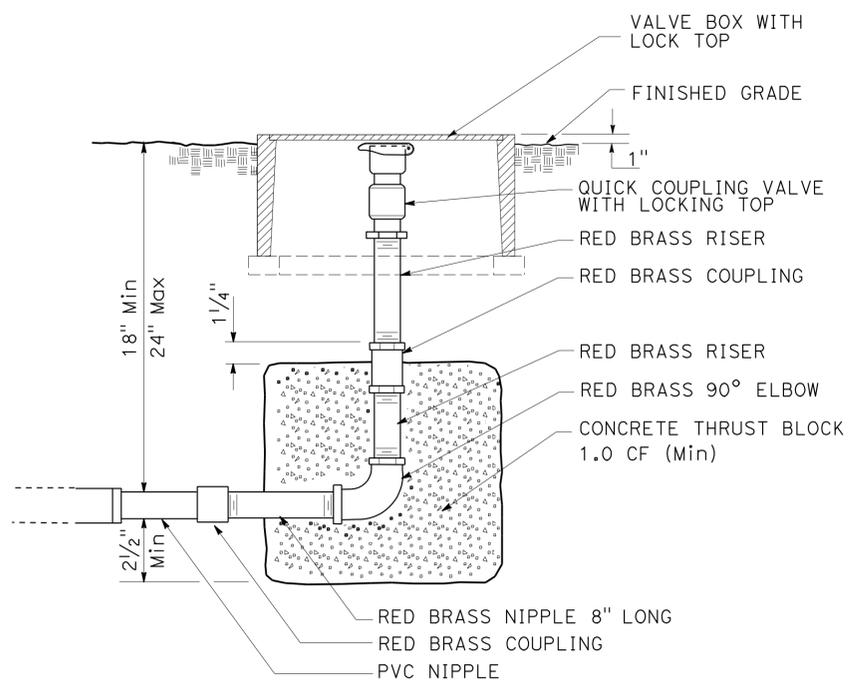


STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Emilio V. Ramon - LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
 EMILIO V. RAMON
 TOM BROWNE
 TOM HAM
 REVISOR BY
 DATE REVISOR
 CALCULATED-DESIGNED BY
 CHECKED BY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	8	R31.3	20	73

 LICENSED LANDSCAPE ARCHITECT		
2-8-10 PLANS APPROVAL DATE		

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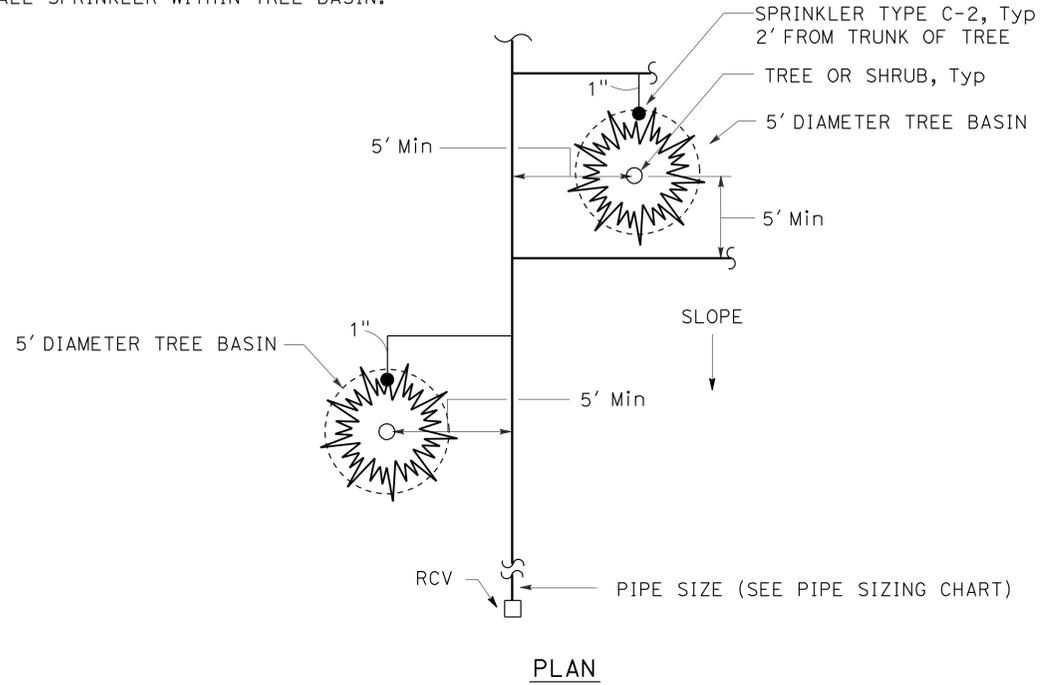


NOTE:
CLOSE NIPPLES SHALL NOT BE USED

QUICK COUPLING VALVE

NOTE:

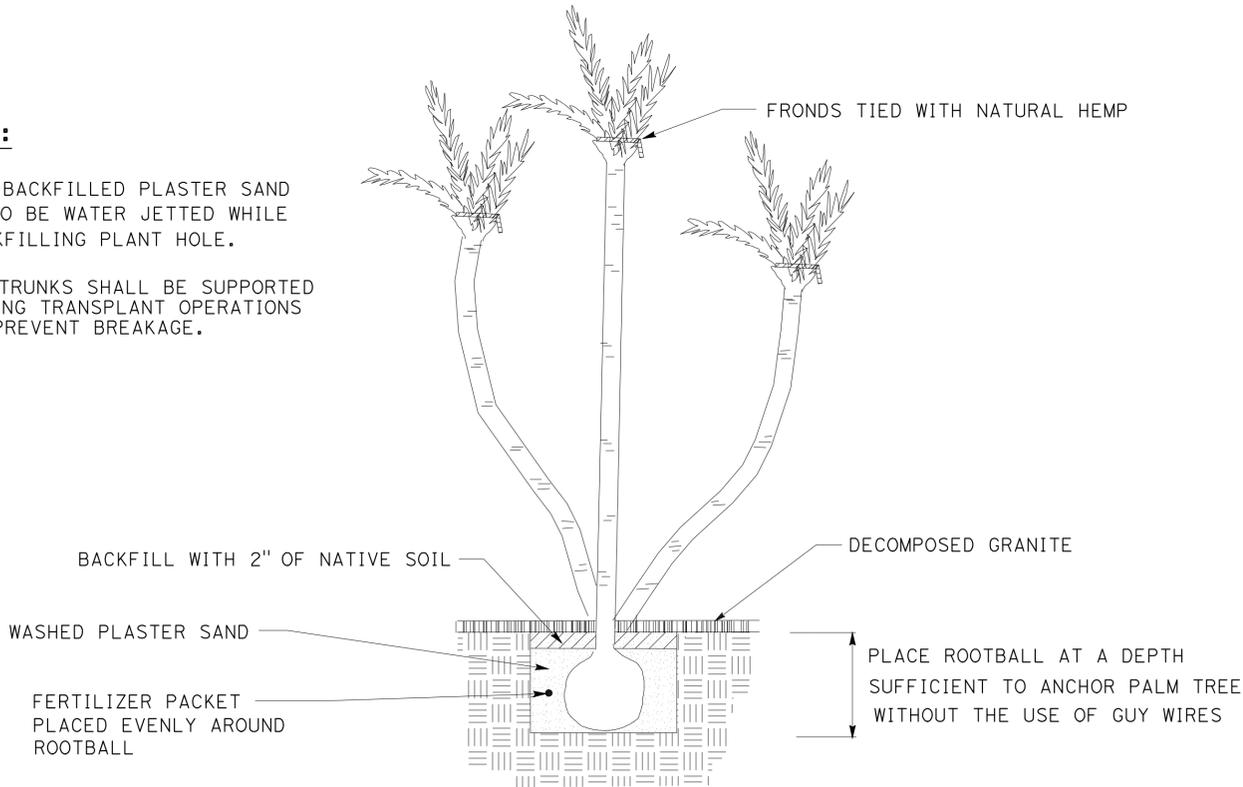
1. INSTALL SPRINKLER WITHIN TREE BASIN.



TYPE C-2 (Mod) SPRINKLER INSTALLATION AND BASIN

NOTES:

1. ALL BACKFILLED PLASTER SAND IS TO BE WATER JETTED WHILE BACKFILLING PLANT HOLE.
2. ALL TRUNKS SHALL BE SUPPORTED DURING TRANSPLANT OPERATIONS TO PREVENT BREAKAGE.



TRANSPLANT PALM TREE (MULTI-TRUNK) DETAIL

LANDSCAPE DETAILS

NO SCALE

LD-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - LANDSCAPE ARCHITECTURE

EMILTO VIRAMONTES
TOM BROWNE

SENIOR LANDSCAPE ARCHITECT
TOM HAM

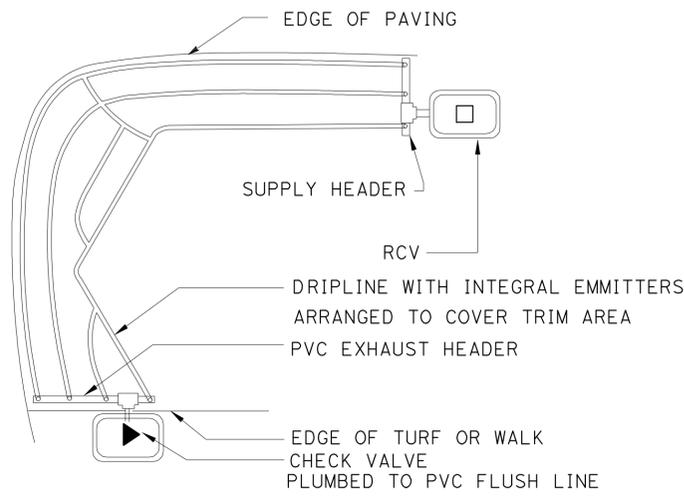
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	Imp	8	R31.3	21	73

 LICENSED LANDSCAPE ARCHITECT		
2-8-10 PLANS APPROVAL DATE		

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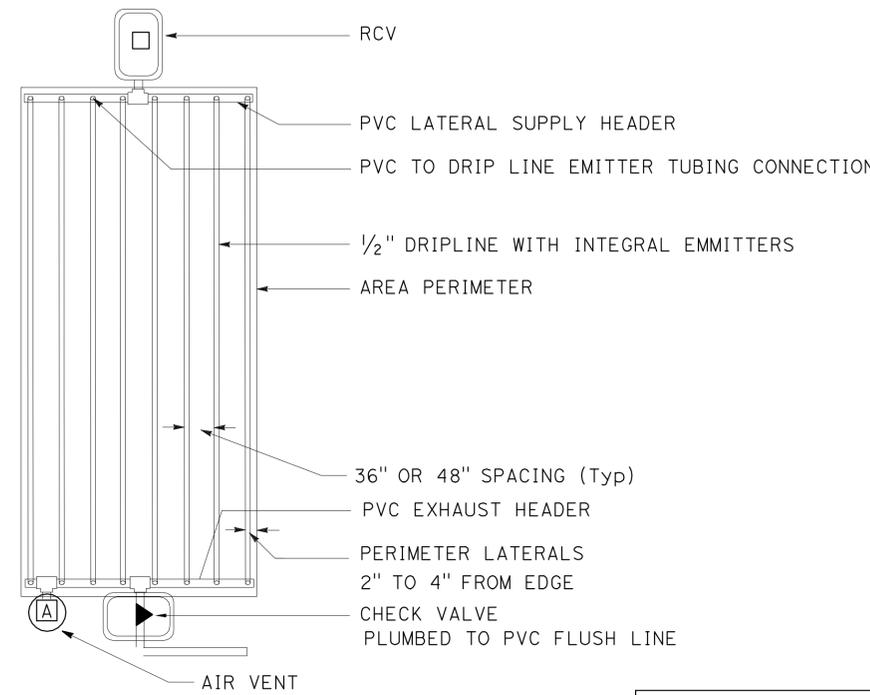
NOTE:

1. IN THIS EXAMPLE, IDEAL SPACING IS MAINTAINED FOR THE EFFLUENT DISPOSAL SYSTEM WITHOUT DISTORTION, WHILE THE DRIP LINES ARE SET AWAY FROM THE PAVED EDGE.



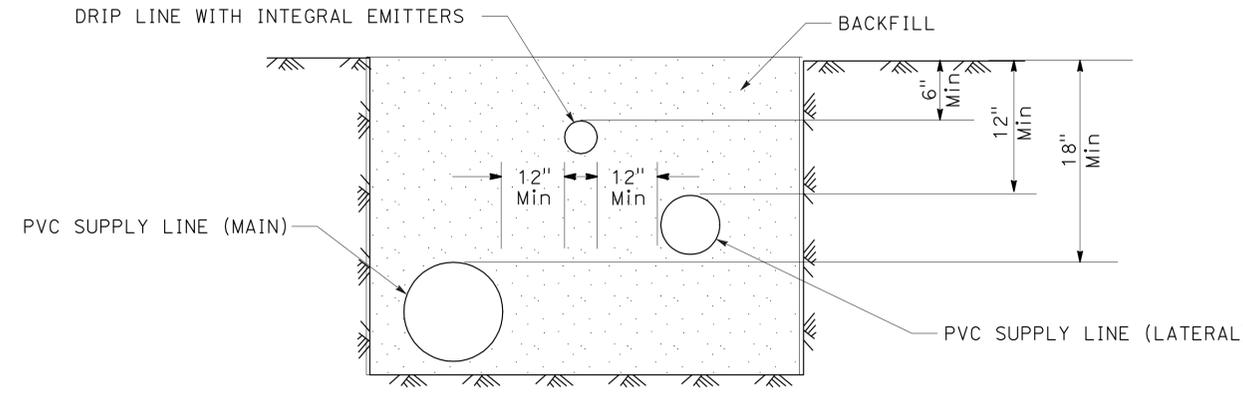
PLAN

DRIP LINE WITH INTEGRAL EMITTER USED AS PERIMETER TRIM

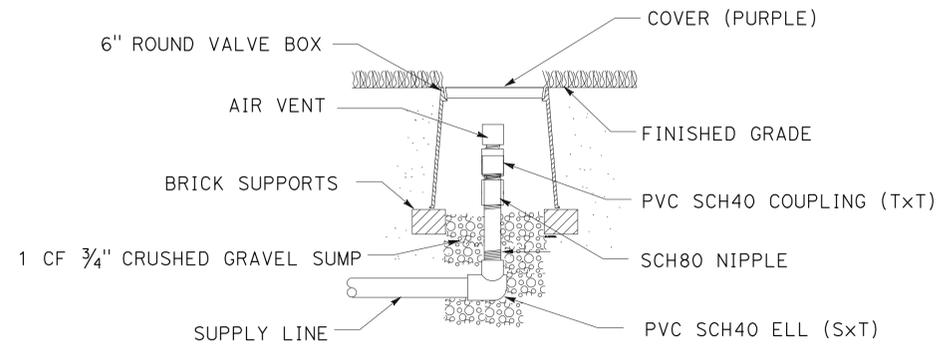


PLAN

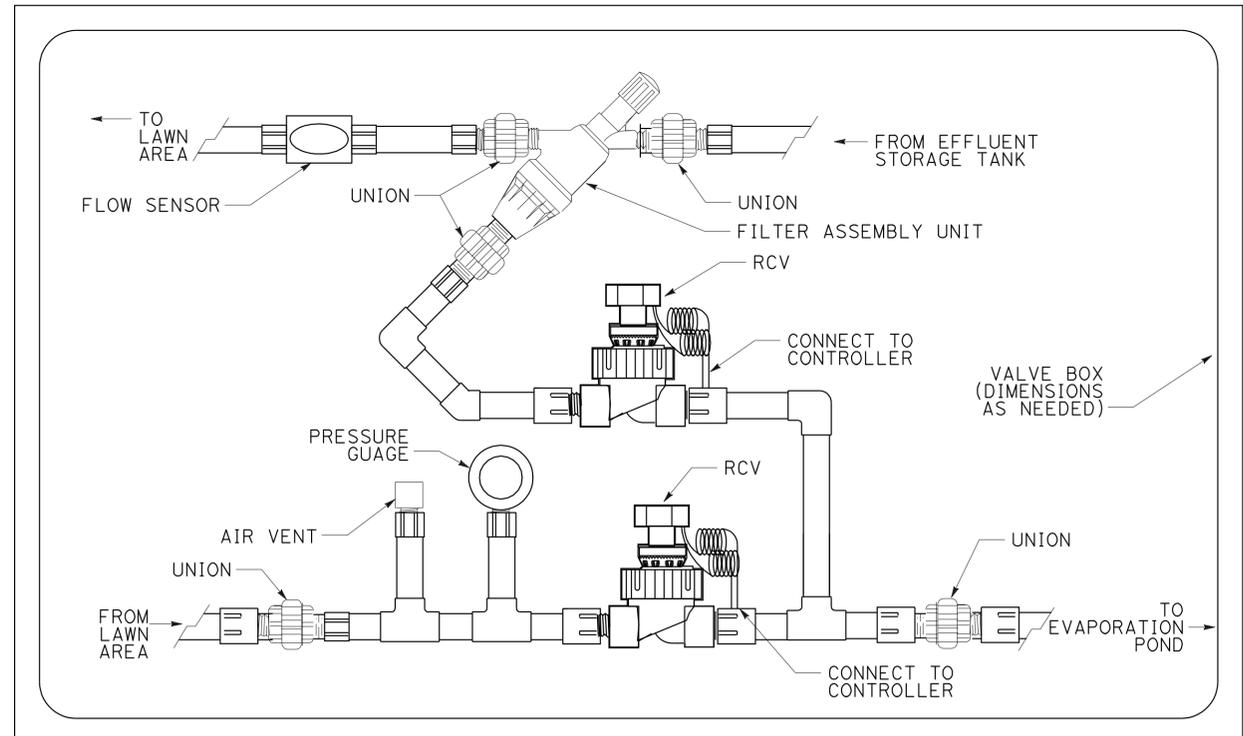
END FEED LAYOUT



PIPE DEPTH TRENCH DETAIL



AIR VENT



VORTEX HEADWORKS ASSEMBLY UNIT

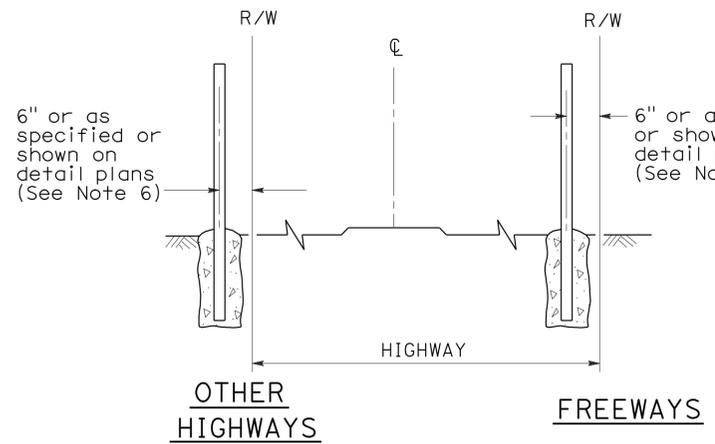
EFFLUENT WATER DISPOSAL SYSTEM DETAILS

LANDSCAPE DETAILS

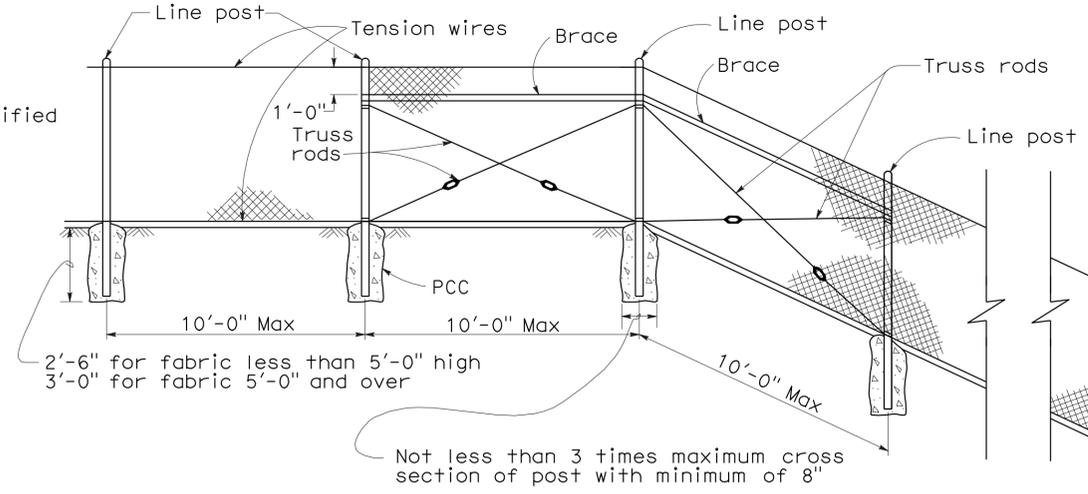
NO SCALE

LD-3

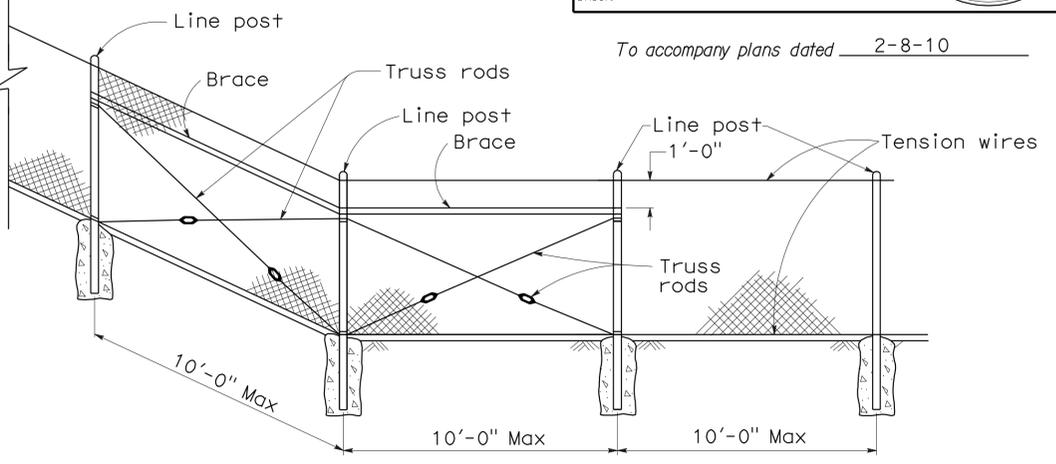
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 LANDSCAPE ARCHITECTURE
 EMILIO VIRAMONTES
 SENIOR LANDSCAPE ARCHITECT
 TOM BROWNE
 TOM HAM
 REVISOR BY DATE
 DESIGNED BY CHECKED BY
 CALCULATED-DESIGNED BY
 EMILIO VIRAMONTES
 TOM BROWNE
 LANDSCAPE ARCHITECT
 LANDSCAPE ARCHITECT
 LANDSCAPE ARCHITECT



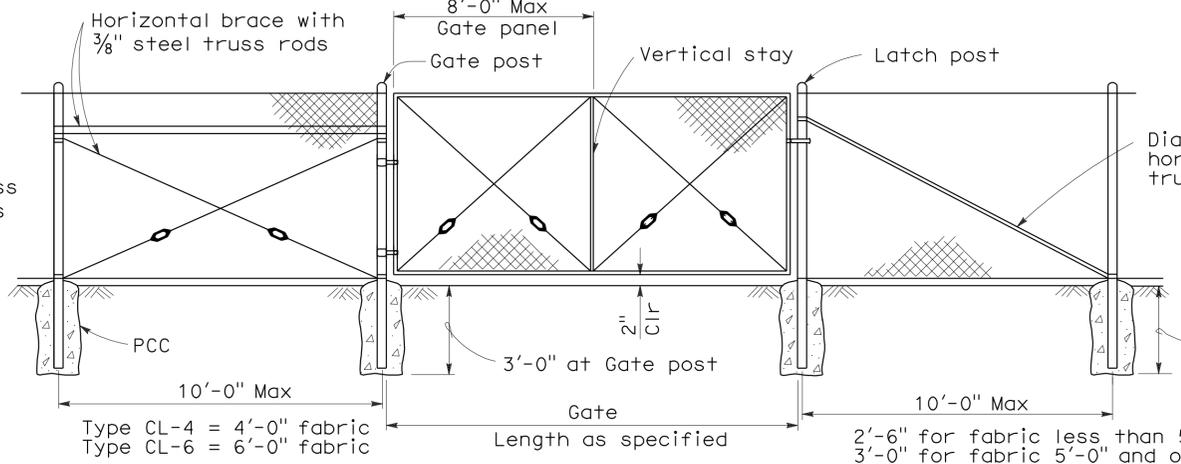
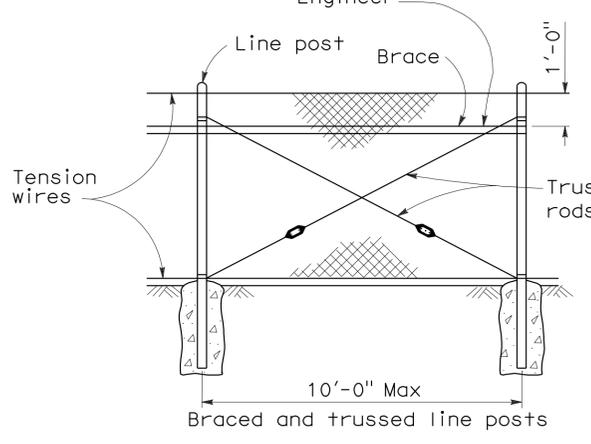
FENCE LOCATION



CHAIN LINK FENCE ON SHARP BREAK IN GRADE



Brace to be removed after all other fence construction is completed unless otherwise directed by the Engineer



CHAIN LINK GATE INSTALLATION

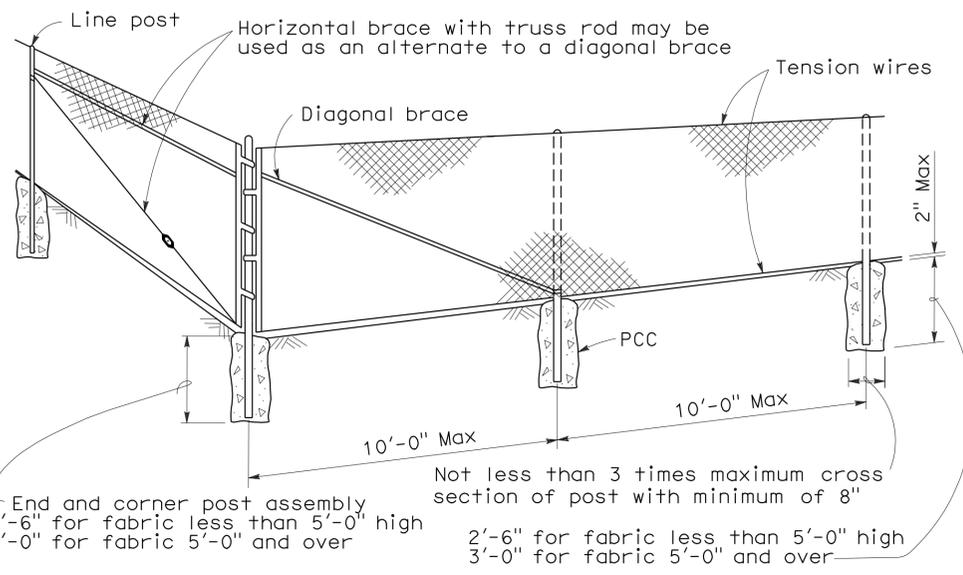
GATE POST			
FENCE HEIGHT	GATE WIDTHS	NOMINAL ID	WEIGHT PER FOOT
6'-0" and Less	Up thru 6'-0"	2 1/2"	4.95 LB
	Over 6'-0" thru 12'-0"	4"	10.79 LB
	Over 12'-0" thru 18'-0"	5"	14.62 LB
	Over 18'-0" to 24'-0" Max	6"	18.97 LB
Over 6'-0"	Up thru 6'-0"	3"	7.58 LB
	Over 6'-0" thru 12'-0"	5"	14.62 LB
	Over 12'-0" thru 18'-0"	6"	18.97 LB
	Over 18'-0" to 24'-0" Max	8"	28.55 LB

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

NOTES:

- The below table shows examples of post and brace sections which may comply with the Specifications.
- Sections shown in the tables must also comply with the strength requirements and other provisions of the Specifications.
- Other sections which comply with the strength requirements and other provisions of the 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'-0" long.

FENCE HEIGHT	TYPICAL MEMBER DIMENSIONS (See Notes)									
	LINE POSTS			END, LATCH & CORNER POSTS			BRACES			
	ROUND ID	H	ROLL FORMED	ROUND ID	ROLL FORMED		ROUND ID	H	ROLL FORMED	
6' & less	1 1/2"	1 7/8" x 1 5/8"	1 7/8" x 1 5/8"	2"	3 1/2" x 3 1/2"	2" x 1 3/4"	1 1/4"	1 1/2" x 1 5/16"	1 5/8" x 1 1/4"	1 3/4" x 1 1/4"
Over 6'	2"	2 1/4" x 2"	2" x 1 3/4"	2 1/2"	3 1/2" x 3 1/2"	2 1/2" x 2 1/2"	1 1/4"	1 1/2" x 1 5/16"	1 5/8" x 1 1/4"	1 3/4" x 1 1/4"



CORNER POST

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
CHAIN LINK FENCE
 NO SCALE

RSP A85 DATED JUNE 5, 2009 SUPERSEDES STANDARD PLAN A85
 DATED MAY 1, 2006 - PAGE 111 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A85

2006 REVISED STANDARD PLAN RSP A85

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	24	73

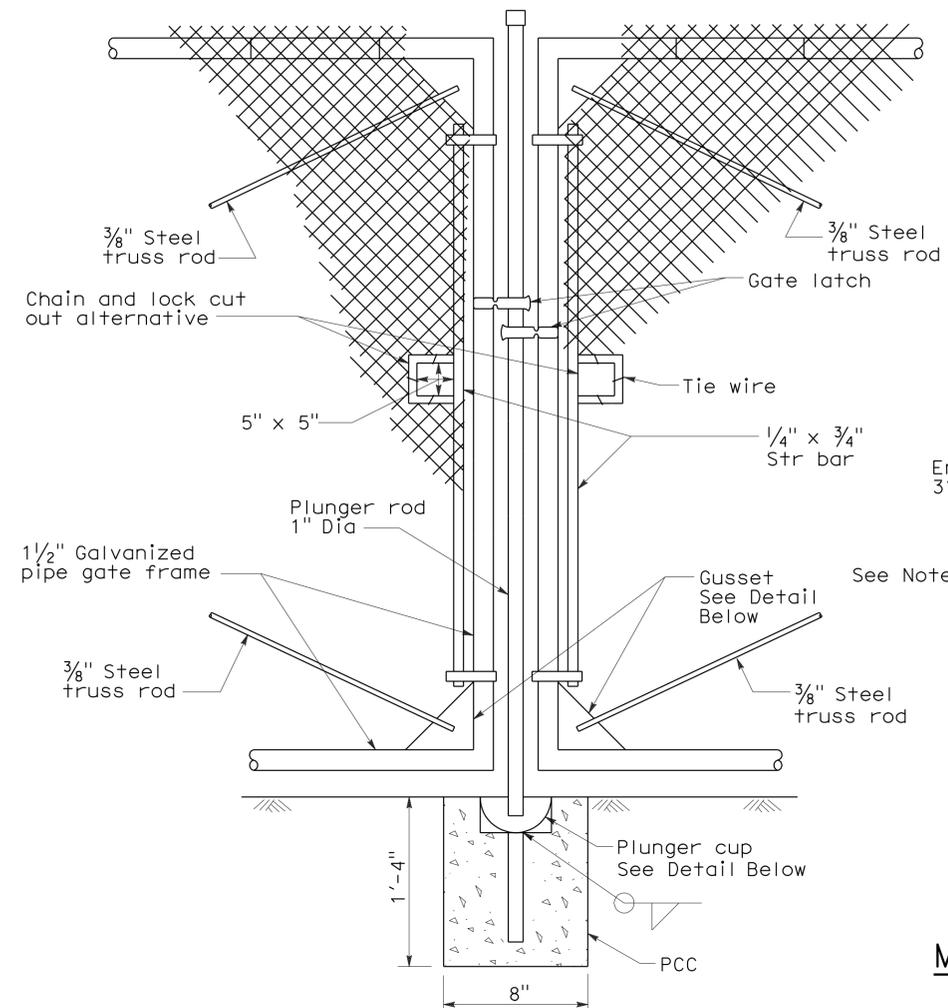
Glenn DeCou
 REGISTERED CIVIL ENGINEER
 No. C34547
 Exp. 9-30-09
 CIVIL
 STATE OF CALIFORNIA

June 5, 2009
 PLANS APPROVAL DATE

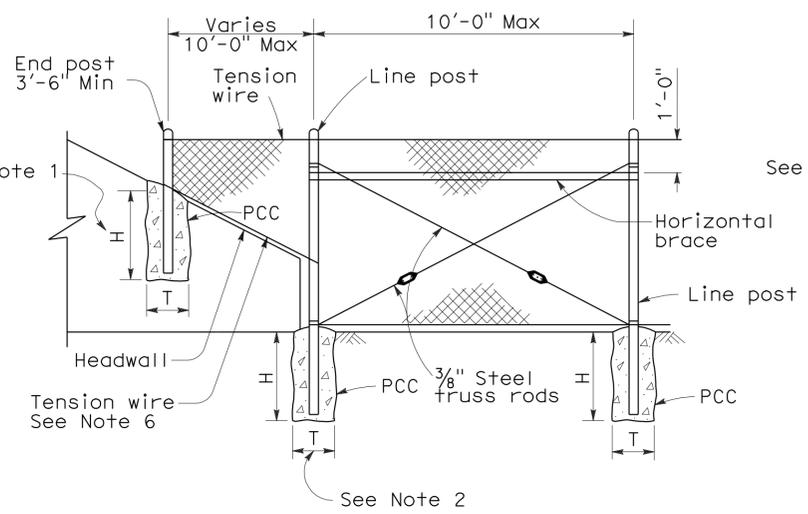
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 2-8-10

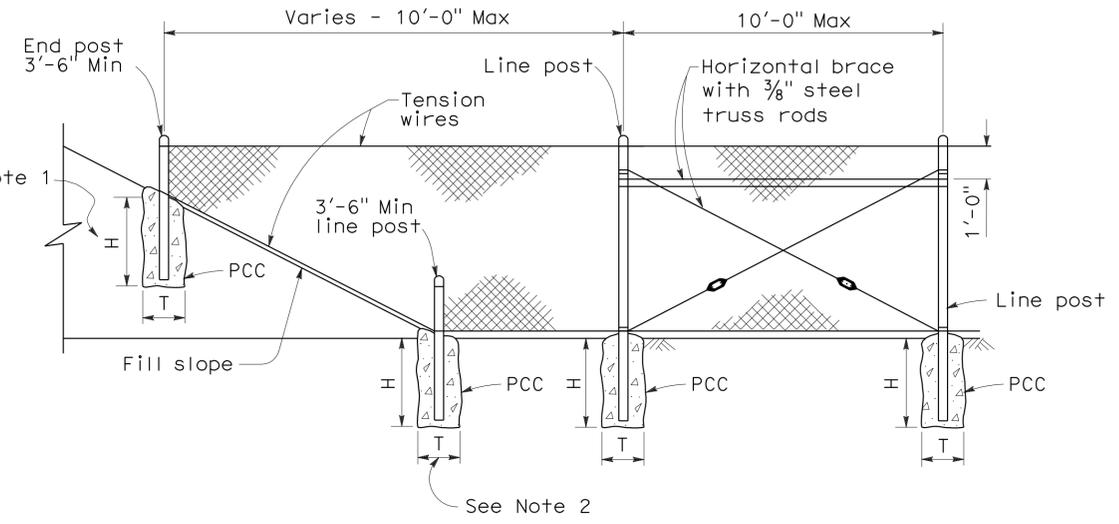
- NOTES:**
- H is 2'-6" for fabric less than 5'-0" high.
H is 3'-0" for fabric 5'-0" and over.
 - T is not less than 3 times maximum cross section of post with minimum of 8".
 - Arms with barbed wire to be used where shown on plans.
 - See Revised Standard Plan RSP A85 for Chain Link Fencing dimensions.
 - Reinforcing must comply with ASTM A 706.
 - See Detail A on New Standard Plan NSP A86B for connection at headwall.



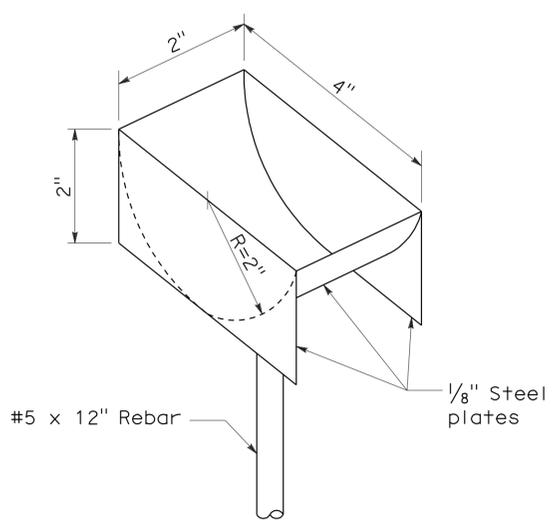
TYPICAL DOUBLE GATE REMOVABLE CENTER POST



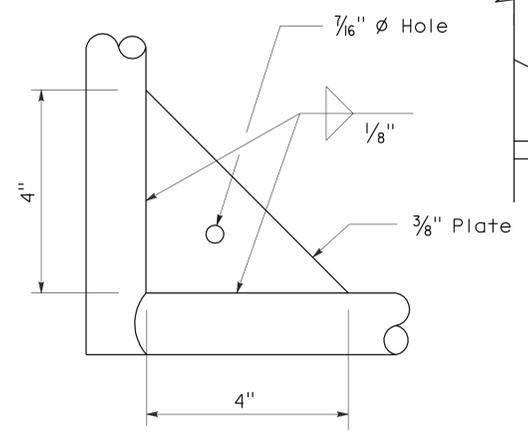
METHOD OF TYING FENCE TO HEADWALL



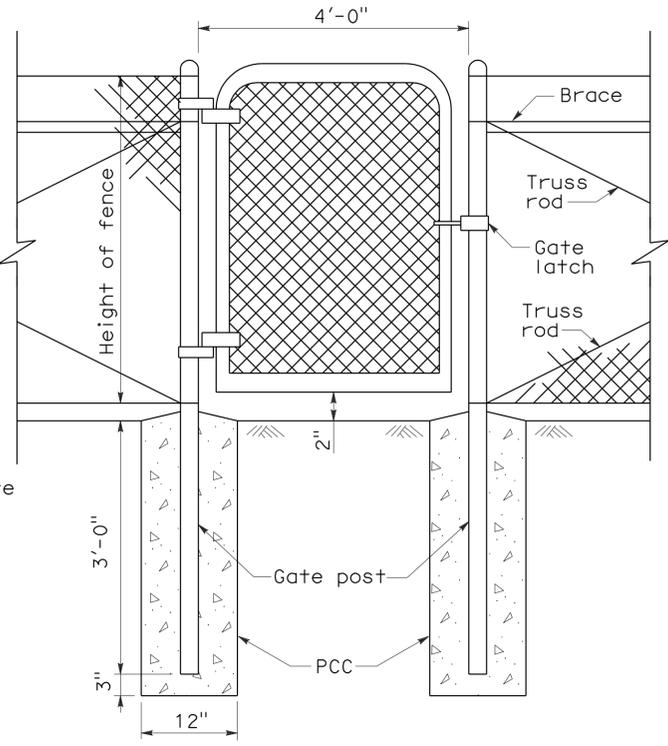
METHOD OF ERECTING FENCE FOR FILL SLOPE



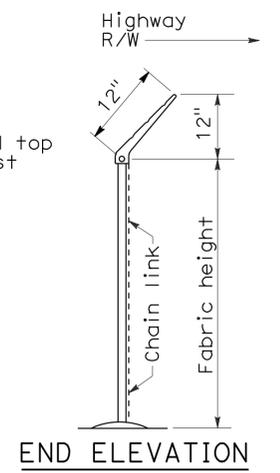
PLUNGER CUP DETAIL



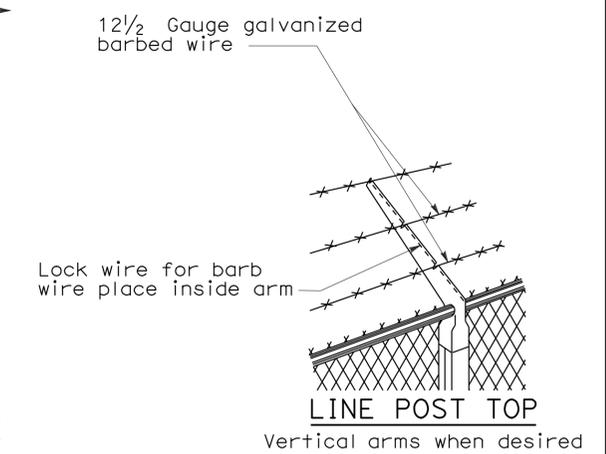
GUSSET DETAIL



WALK GATE



BARBED WIRE POST TOP
See Note 3



STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
CHAIN LINK FENCE DETAILS
 NO SCALE

NSP A85A DATED JUNE 5, 2009 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

NEW STANDARD PLAN NSP A85A

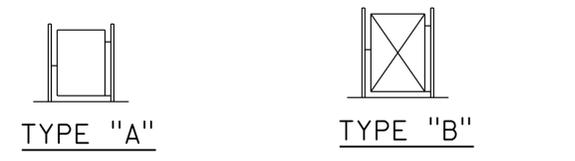
2006 NEW STANDARD PLAN NSP A85A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	25	73

Glenn DeCou
 REGISTERED CIVIL ENGINEER
 June 5, 2009
 PLANS APPROVAL DATE
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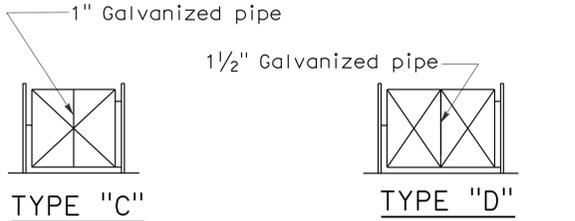
REGISTERED PROFESSIONAL ENGINEER
 Glenn DeCou
 No. C34547
 Exp. 9-30-09
 STATE OF CALIFORNIA

To accompany plans dated 2-8-10



TYPE "A"
3' and 6' Single
6' and 12' Double

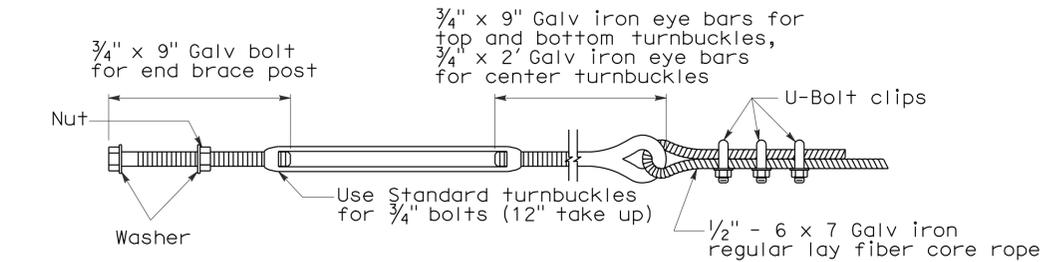
TYPE "B"
Over 6' to 12' Single.
Over 12' to 24' Double



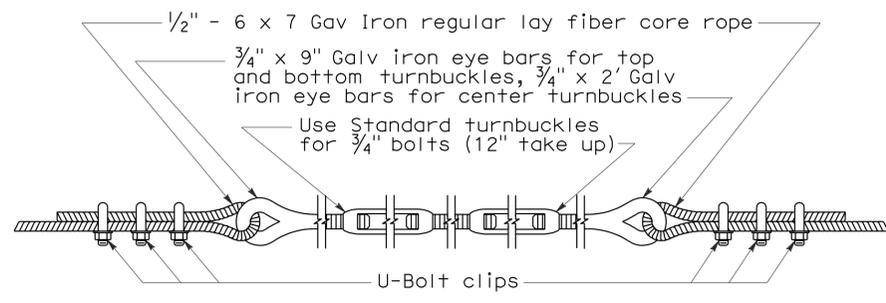
TYPE "C"
Over 12' to 18' Single
Over 24' to 36' Double.

TYPE "D"
Over 18' to 24' Single
Over 36' to 48' Double

TYPICAL FRAMEWORK SHOWING NUMBER OF BAYS IN GATE



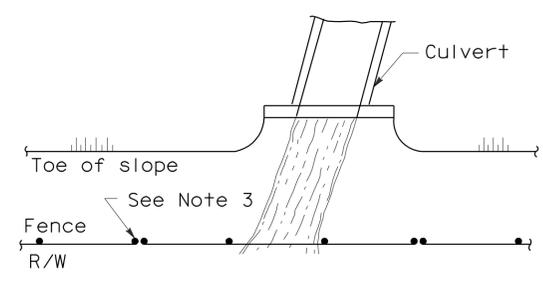
TURNBUCKLE A



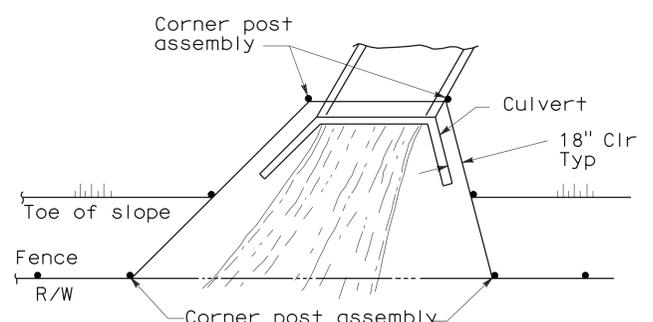
TURNBUCKLE B

NOTES:

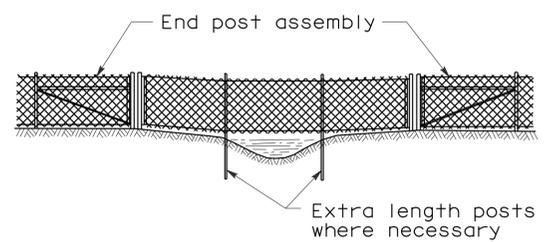
1. All material for abutment connection to be galvanized.
2. The chain link fabric shall be replaced by barbed wire strands at 12" maximum centers between the double posts.
3. When the width of the culvert makes it necessary to anchor a post to the top of the culvert, a cast iron shoe or other device approved by the Engineer shall be used.
4. Fencing over stream and around headwall may also use Barbed Wire or Wire Mesh fencing with either wood post or steel post installation.
5. See Revised Standard Plan RSP A85 for Chain Link fence dimensions. See Standard Plan A86 for Barbed Wire and Wire Mesh fence dimensions and for wood post and steel post installation.



PLAN

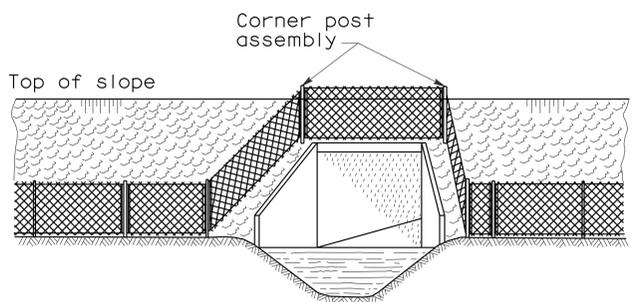


PLAN



ELEVATION

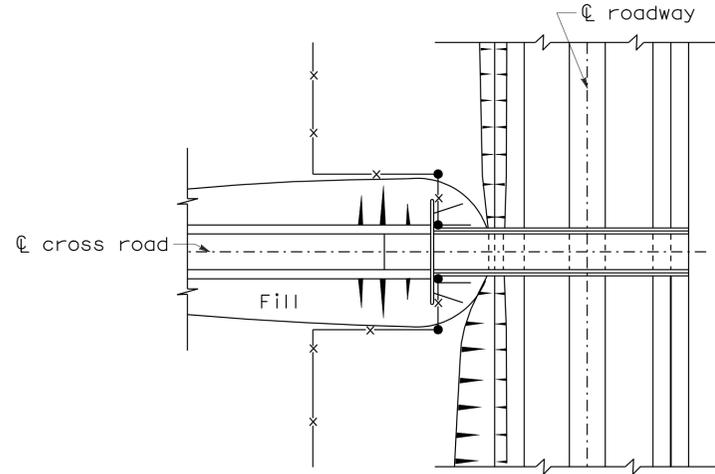
INSTALLATION OVER STREAM



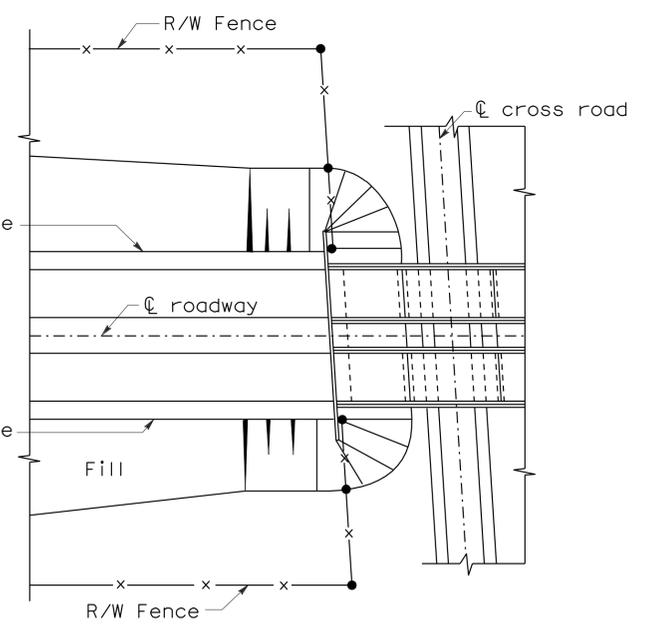
ELEVATION

INSTALLATION AROUND HEADWALL

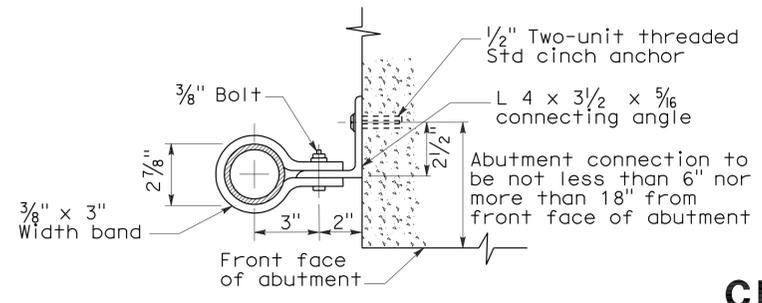
See Note 4



PLAN OF ROADWAY - UNDERPASS



PLAN OF ROADWAY - OVERPASS



ABUTMENT CONNECTION

TYPICAL INSTALLATION AT BRIDGES

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
CHAIN LINK FENCE DETAILS
NO SCALE

NSP A85B DATED JUNE 5, 2009 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

NEW STANDARD PLAN NSP A85B

2006 NEW STANDARD PLAN NSP A85B

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	26	73

Gregory A. Balzer
LICENSED LANDSCAPE ARCHITECT

June 5, 2009
PLANS APPROVAL DATE

Gregory A. Balzer
LICENSED LANDSCAPE ARCHITECT
2-28-11
5-14-09
DATE

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To accompany plans dated 2-8-10

2006 REVISED STANDARD PLAN RSP H1

A

AB aggregate base
 ABS acrylonitrile-butadiene-styrene
 AC asphalt concrete
 Adj adjacent/adjustable
 AIC auxiliary irrigation controller
 Alt alternative
 AMEND amendment
 ARV air release valve
 AUTO automatic
 AUX auxiliary
 AVB atmospheric vacuum breaker

B

B&B balled and burlapped
 B/B brass/bronze
 B/B/PL brass/bronze/plastic
 B/PL brass/plastic
 BFM bonded fiber matrix
 Bit Ctd bituminous coated
 BP booster pump
 BPA backflow preventer assembly
 BPAE backflow preventer assembly in enclosure
 BPE backflow preventer enclosure
 BV ball valve

C

CAP corrugated aluminum pipe
 CARV combination air release valve
 CCA cam coupler assembly
 CEC controller enclosure cabinet
 CHDPE corrugated high density polyethylene
 CL chain link
 CNC control and neutral conductors
 Conc concrete
 Cond conduit
 CSP corrugated steel pipe
 CST center strip
 CV check valve

D

Dia diameter
 DIP ductile iron pipe
 DN diameter nominal

E

EA each
 Elect electric/electrical
 Elev elevation
 ENCL enclosure
 EP edge of pavement
 ES edge of shoulder
 EST end strip
 ESTB establishment
 ETW edge of traveled way

F

F full circle
 F/P full/part circle
 FAU filter assembly unit
 FCV flow control valve
 FERT fertilizer
 FG finished grade
 FIPT female iron pipe thread
 FIS fertilizer injector system
 FL flow line
 FM flow monitor
 FS flow sensor
 Ft foot/feet
 FV flush valve

G

GAL Gallon(s)
 Galv galvanized
 GARV garden valve
 GPH gallons per hour
 GPM gallons per minute
 GSP galvanized steel pipe
 GV gate valve

H

H half circle
 HB hose bib
 HDPE high density polyethylene
 HP horsepower/hinge point
 HPL high pressure line
 Hwy highway

I

IC irrigation controller
 ICC irrigation controller(s) in controller enclosure cabinet
 ID inside diameter
 In inches
 IFS irrigation filtration system
 IPS iron pipe size
 IPT iron pipe thread
 Irr irrigation

L

L length
 LF linear foot

M

Max maximum
 MBGR metal beam guard railing
 MCV manual control valve
 MIC master irrigation controller
 Min minimum
 MIPT male iron pipe thread
 Misc miscellaneous
 Mtl material
 MVP maintenance vehicle pullout

N

NCN no common name
 NL nozzle line
 No. number
 NPT national pipe thread

O

O/C on center
 OD outside diameter
 Oz ounce

P

P part circle
 PB pull box
 PCC portland cement concrete
 PE polyethylene
 PKt packet
 PL plastic
 PLT plant/planting
 PLT ESTB plant establishment
 PM post mile
 PR pressure rated
 PRLV pressure relief valve
 PSFM polymer stabilized fiber matrix
 PSI pounds per square inch
 PRV pressure reducing valve
 PVC polyvinyl chloride
 Pvmt pavement

Q

Q quarter circle
 QCV quick coupling valve

NOTE:
 FOR ADDITIONAL ABBREVIATIONS,
 SEE STANDARD PLANS A10A AND A10B.

R

R radius
 RCP reinforced concrete pipe
 RCV remote control valve
 RCVM remote control valve (master)
 RCVMF remote control valve (master) w/ flow meter
 RCW recycled/reclaimed water
 RECP rolled erosion control product
 REQ required
 R/W right of way

S

S slip
 SCC sprinkler control conduit
 SCH schedule
 SF state-furnished
 Shld shoulder
 SQFT square foot/feet
 SQYD square yard(s)
 SST side strip
 Sta station
 Std standard
 SW sidewalk/sound wall

T

T third circle/thread
 TLS truck loading standpipe
 TQ three quarter circle
 TRM turf reinforcement mat
 TRVD traveled
 TT two third circle
 Typ typical

U

UG underground

V

VAU valve assembly unit

W

W width
 W/ with
 WM water meter
 WS wye strainer
 WSP welded steel pipe
 WWM welded wire mesh

**PLANTING AND IRRIGATION
 ABBREVIATIONS**

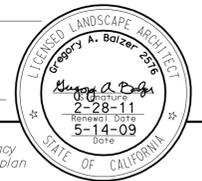
NO SCALE

RSP H1 DATED JUNE 5, 2009 SUPERSEDES STANDARD PLAN H1
 DATED MAY 1, 2006 - PAGE 201 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP H1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	27	73

Gregory A. Balzer
 LICENSED LANDSCAPE ARCHITECT
 June 5, 2009
 PLANS APPROVAL DATE
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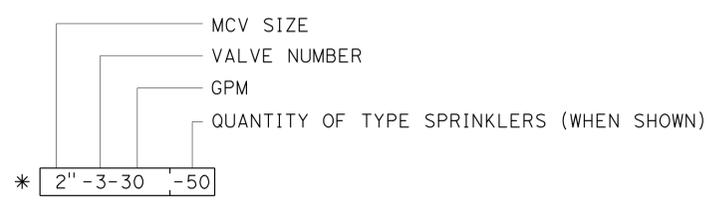
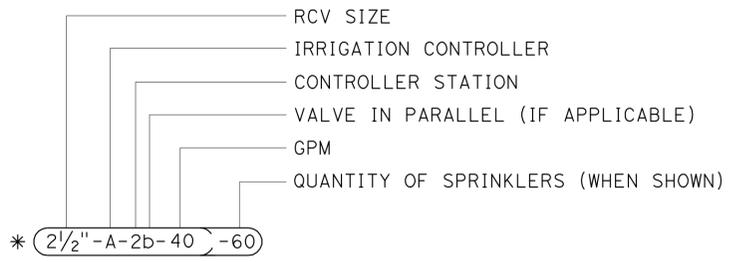


To accompany plans dated 2-8-10

EXISTING	PROPOSED	ITEM DESCRIPTION
		WATER METER (WM)
		BACKFLOW PREVENTER ASSEMBLY (BPA)
		BACKFLOW PREVENTER ASSEMBLY IN ENCLOSURE (BPAE)
		BACKFLOW PREVENTER ENCLOSURE (BPE)
		BOOSTER PUMP (BP)
		TRUCK LOADING STANDPIPE (TLS)
		FLOW SENSOR (FS)
		MASTER IRRIGATION CONTROLLER (MIC)
		AUXILIARY IRRIGATION CONTROLLER (AIC)
		IRRIGATION CONTROLLER (IC)/ IRRIGATION CONTROLLER (IC) (BATTERY) IRRIGATION CONTROLLER (IC) (SOLAR)
		IRRIGATION CONTROLLER(S) IN CONTROLLER ENCLOSURE CABINET (ICC)
		CONTROL AND NEUTRAL CONDUCTORS (CNC)
		SPRINKLER CONTROL CONDUIT (SCC)
		IRRIGATION CROSSOVER
		EXTEND IRRIGATION CROSSOVER
		IRRIGATION SLEEVE
		DUCTILE IRON PIPE (SUPPLY LINE) (MAIN) (DIP)
		GALVANIZED STEEL PIPE (SUPPLY LINE) (MAIN) (GSP)
		GALVANIZED STEEL PIPE (SUPPLY LINE) (LATERAL) (GSP)
		PLASTIC PIPE (PR 200) (SUPPLY LINE) (MAIN)
		PLASTIC PIPE (PR 200) (SUPPLY LINE) (LATERAL)
		PLASTIC PIPE (IRRIGATION LINE)
		REMOTE CONTROL VALVE (RCV) REMOTE CONTROL VALVE (MASTER) (RCVM) REMOTE CONTROL VALVE (MASTER) W/FLOW METER (RCVMF)
		MANUAL CONTROL VALVE (MCV)
		VALVE ASSEMBLY UNIT (VAU)
		WYE STRAINER (WS)
		FILTER ASSEMBLY UNIT (FAU)
		GATE VALVE (GV)
		BALL VALVE (BV)

EXISTING	PROPOSED	ITEM DESCRIPTION
		QUICK COUPLING VALVE (QCV)
		CAM COUPLER ASSEMBLY (CCA)
		PRESSURE REDUCING VALVE (PRV)
		PRESSURE RELIEF VALVE (PRLV)
		FLOW CONTROL VALVE (FCV)
		COMBINATION AIR RELEASE VALVE (CARV)
		CHECK VALVE (CV)
		FLUSH VALVE (FV)
		NOZZLE LINE W/TURNING UNION
		IRRIGATION SYSTEM
		IRRIGATION SYSTEM TO BE REMOVED
		CHAIN LINK GATE
		QUICK COUPLING VALVE W/SPRINKLER PROTECTOR
		SPRINKLER W/SPRINKLER PROTECTOR
		CONNECT TO EXISTING SYSTEM
		CAP
		CAP EXISTING

VALVE CODE



* VALVE CODES FOR EXISTING VALVES ARE SHOWN IN A DASHED ENCLOSURE.

PLANTING AND IRRIGATION SYMBOLS

NO SCALE

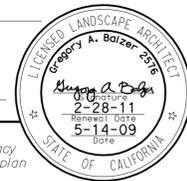
RSP H2 DATED JUNE 5, 2009 SUPERSEDES RSP H2 DATED MARCH 7, 2008 AND STANDARD PLAN H2 DATED MAY 1, 2006 - PAGE 202 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP H2

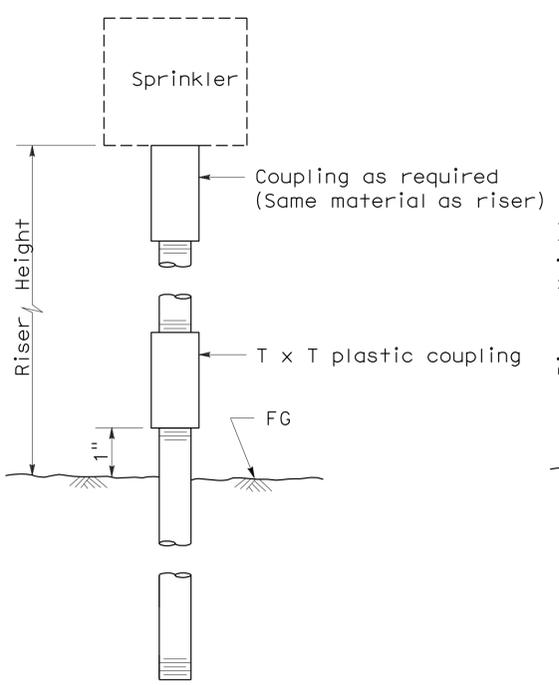
2006 REVISED STANDARD PLAN RSP H2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	28	73

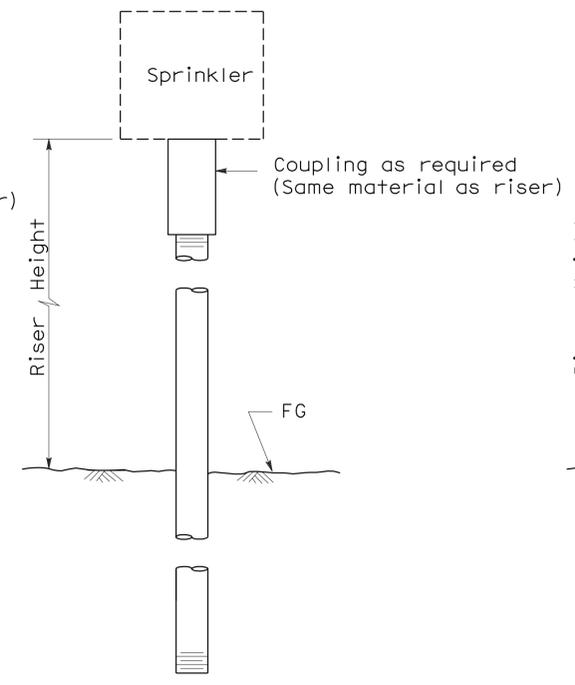
Gregory A. Balzer
 LICENSED LANDSCAPE ARCHITECT
 June 5, 2009
 PLANS APPROVAL DATE
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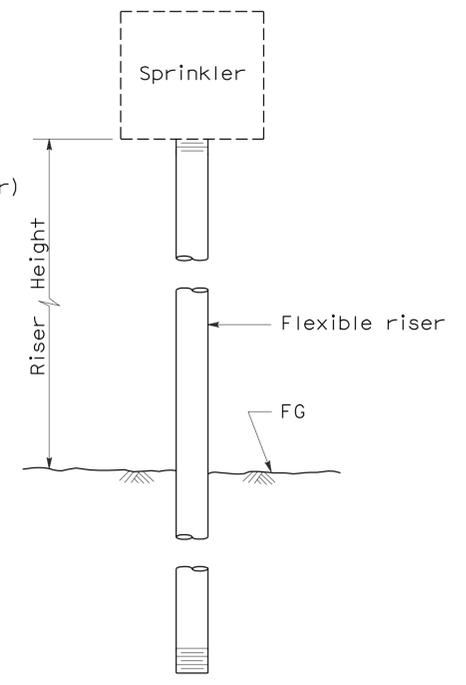
To accompany plans dated 2-8-10



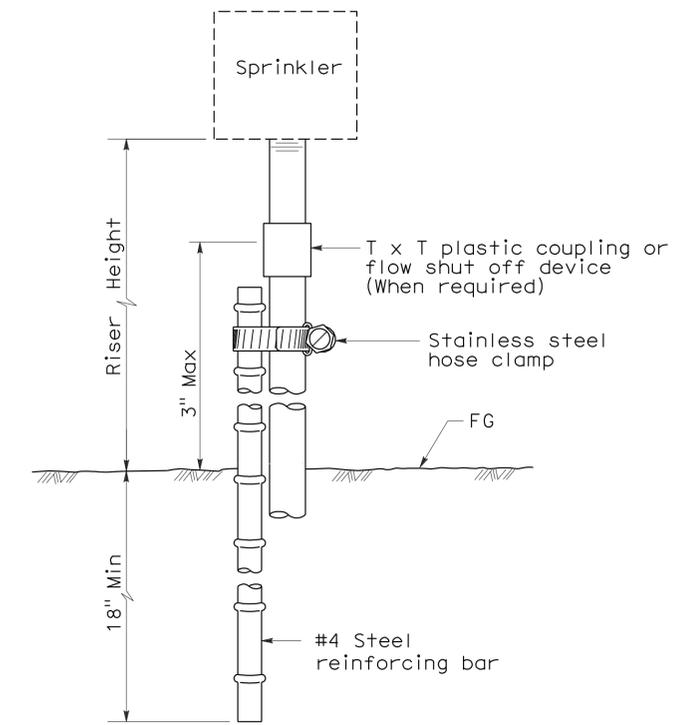
ELEVATION
RISER TYPE I



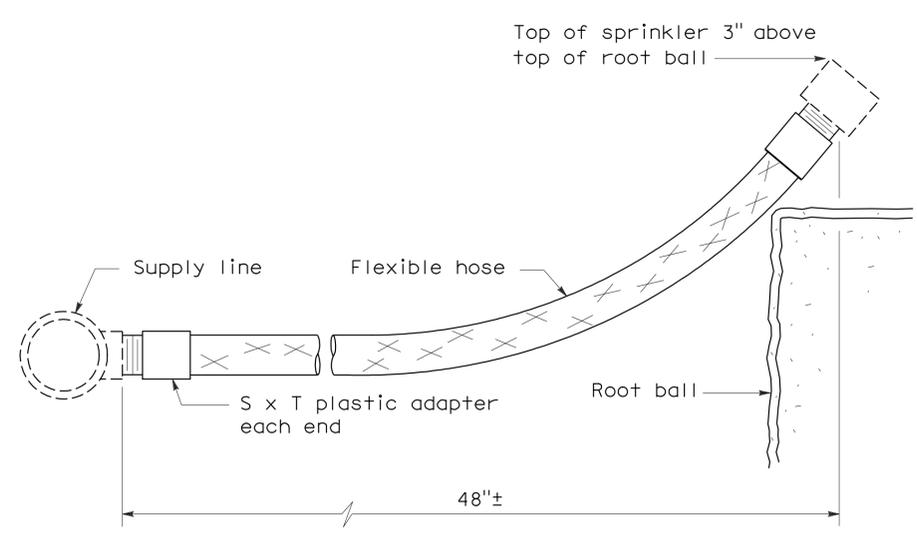
ELEVATION
RISER TYPE II



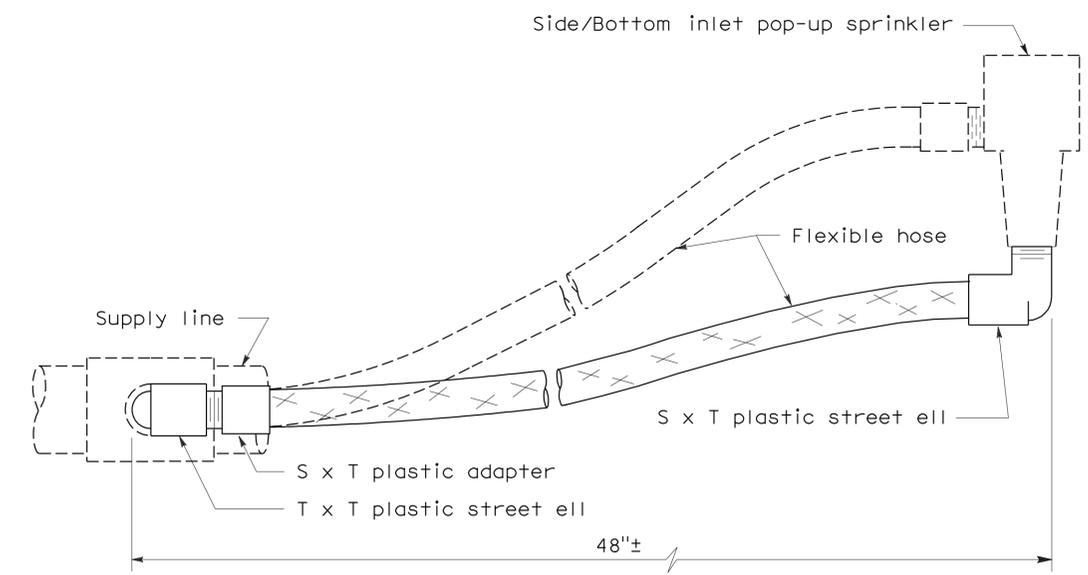
ELEVATION
RISER TYPE III



ELEVATION
RISER TYPE IV



ELEVATION
RISER TYPE V



ELEVATION
RISER TYPE VI

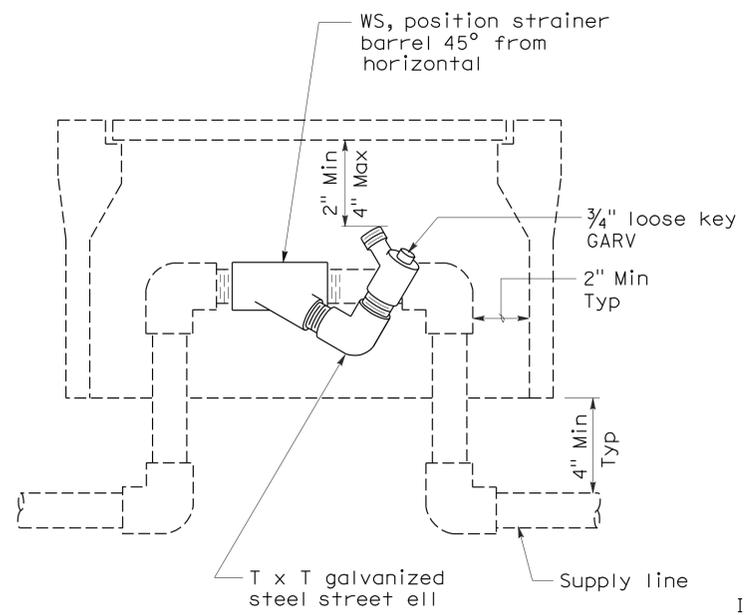
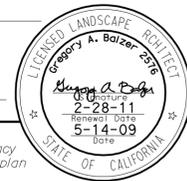
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**PLANTING AND IRRIGATION
DETAILS**
NO SCALE

RSP H5 DATED JUNE 5, 2009 SUPERSEDES STANDARD PLAN H5
DATED MAY 1, 2006 - PAGE 205 OF THE STANDARD PLANS BOOK DATED MAY 2006.

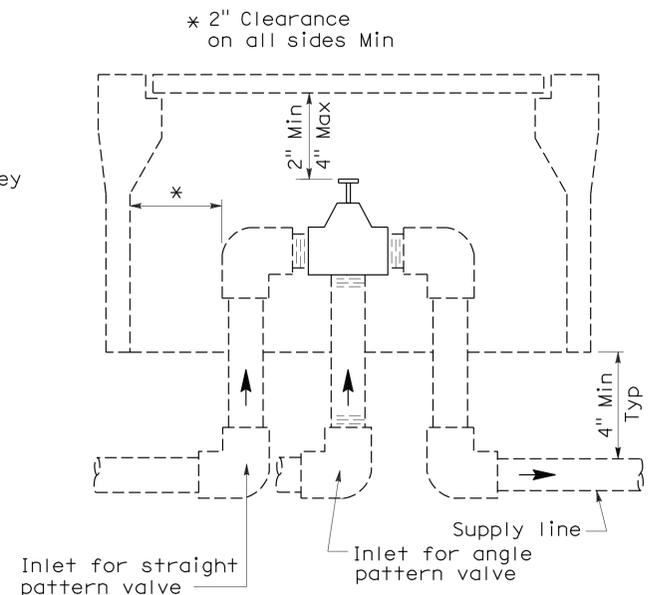
2006 REVISED STANDARD PLAN RSP H5

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	29	73

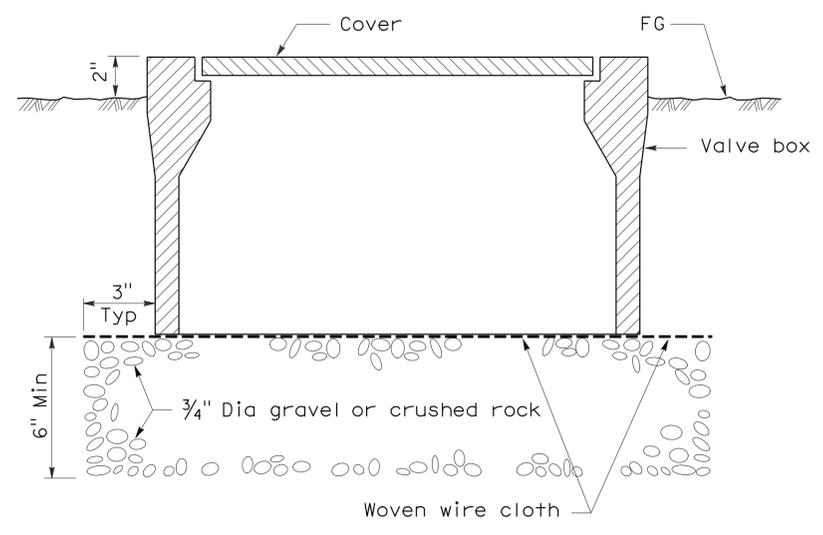
Gregory A. Balzer
 LICENSED LANDSCAPE ARCHITECT
 June 5, 2009
 PLANS APPROVAL DATE
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



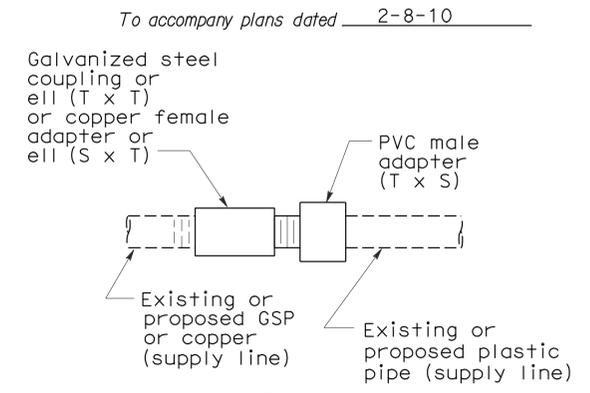
**ELEVATION
WYE STRAINER**



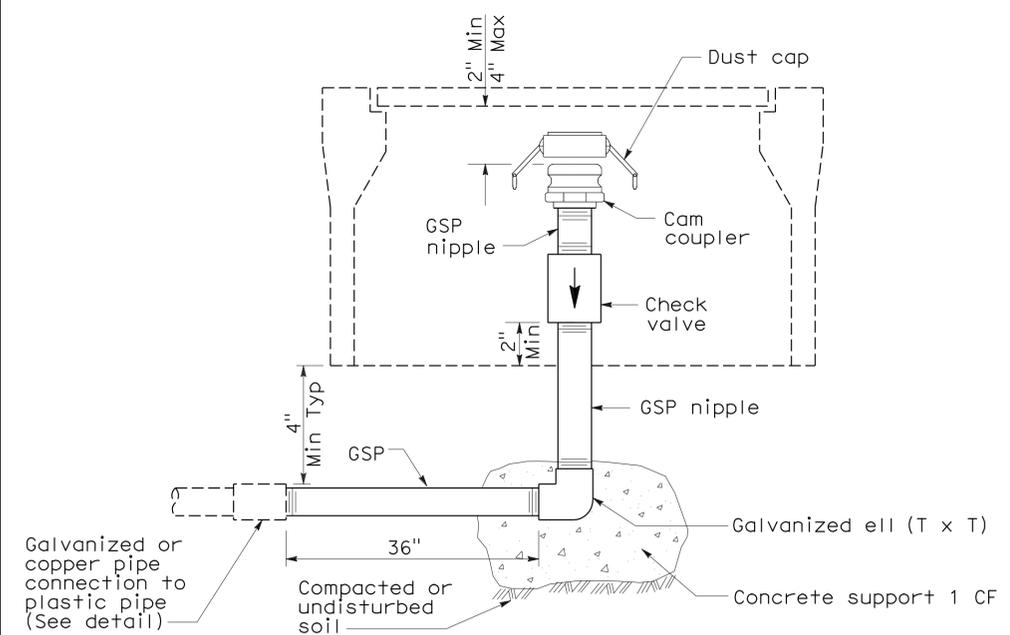
**ELEVATION
VALVE**



**SECTION
VALVE BOX**

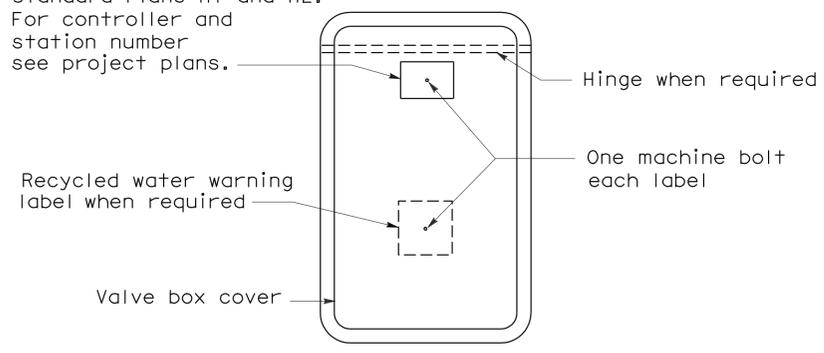


**PLAN
GALVANIZED OR COPPER PIPE
CONNECTION TO PLASTIC PIPE**

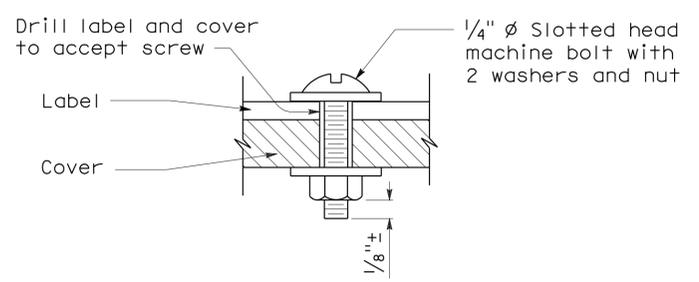


**ELEVATION
CAM COUPLER ASSEMBLY**

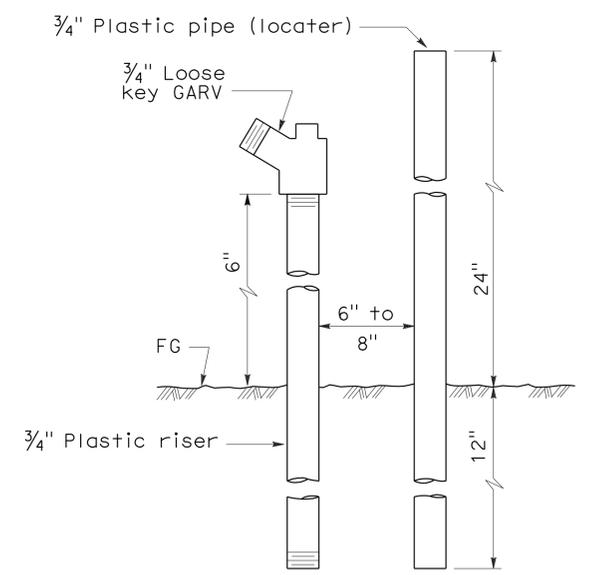
Identification label:
 For abbreviations see Revised Standard Plans H1 and H2.
 For controller and station number see project plans.



**PLAN
VALVE BOX IDENTIFICATION**



**SECTION
VALVE BOX IDENTIFICATION**



**ELEVATION
FLUSH VALVE**

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

**PLANTING AND IRRIGATION
 DETAILS**

NO SCALE

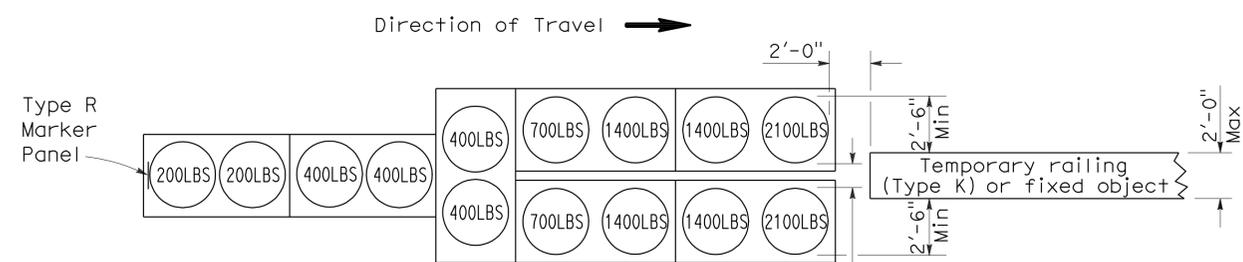
RSP H7 DATED JUNE 5, 2009 SUPERSEDES STANDARD PLAN H7
 DATED MAY 1, 2006 - PAGE 207 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP H7

2006 REVISED STANDARD PLAN RSP H7

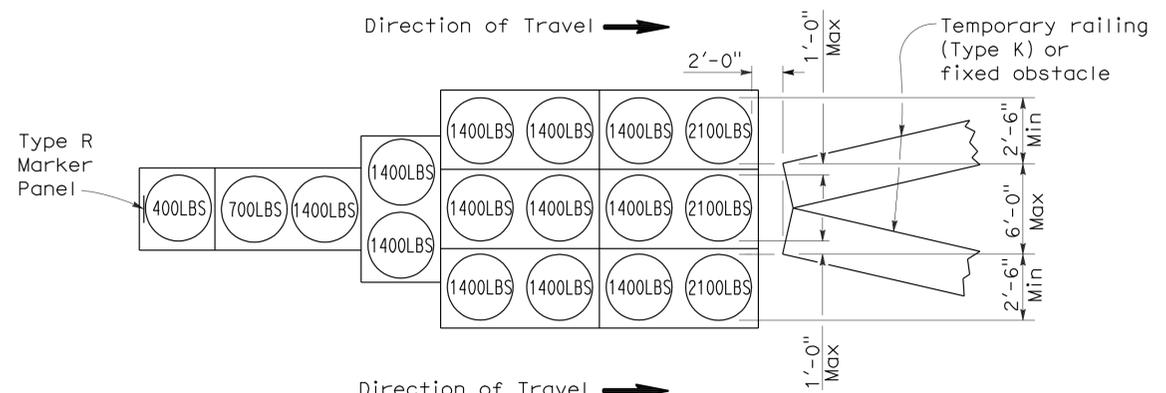
To accompany plans dated 2-8-10

2006 REVISED STANDARD PLAN RSP T1A



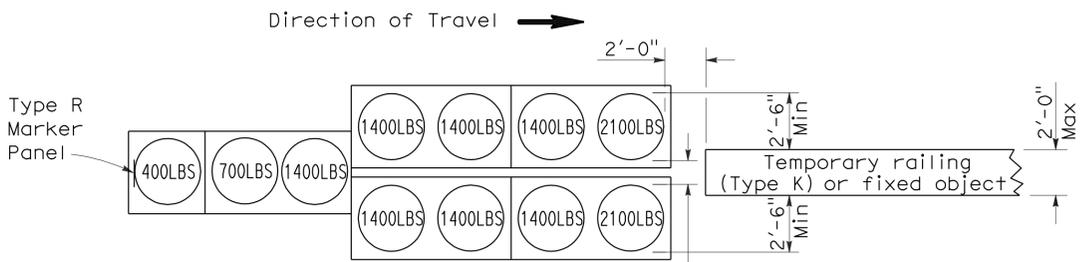
ARRAY 'TU14'

Approach speed 45 mph or more



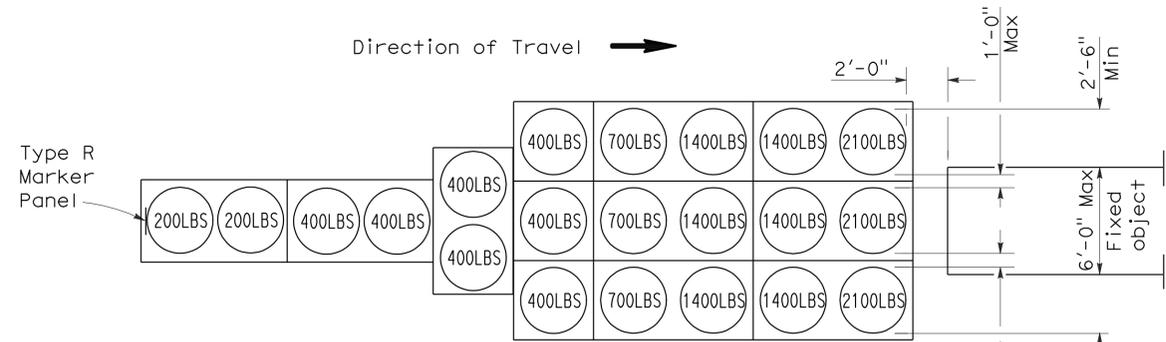
ARRAY 'TU17'

Approach speed less than 45 mph



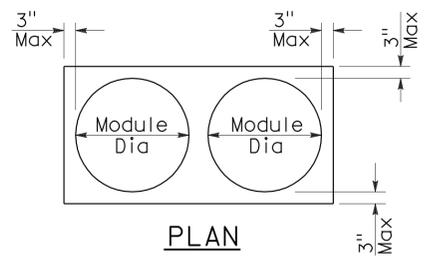
ARRAY 'TU11'

Approach speed less than 45 mph

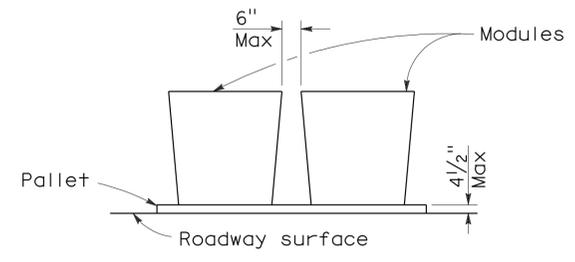


ARRAY 'TU21'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the top of Type R marker panel 1" below the module lid.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TEMPORARY CRASH CUSHION,
SAND FILLED
(UNIDIRECTIONAL)**

NO SCALE

RSP T1A DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1A
DATED MAY 1, 2006 - PAGE 211 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	31	73

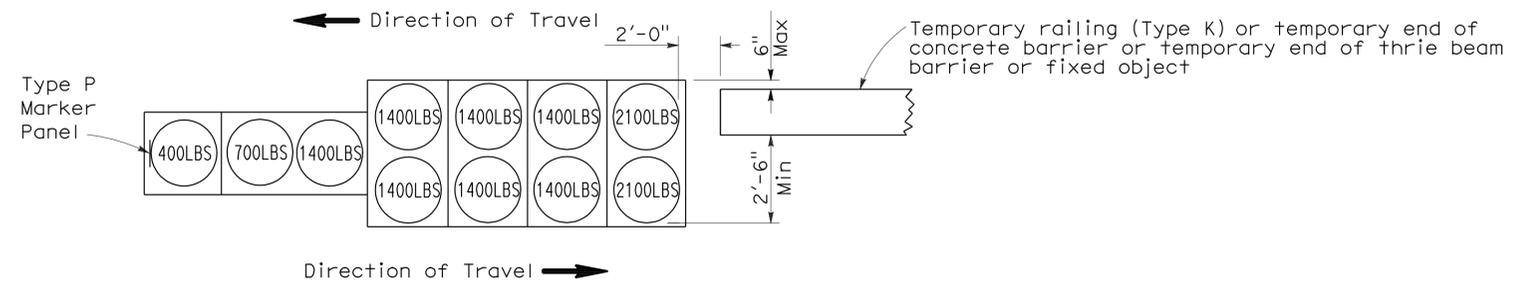
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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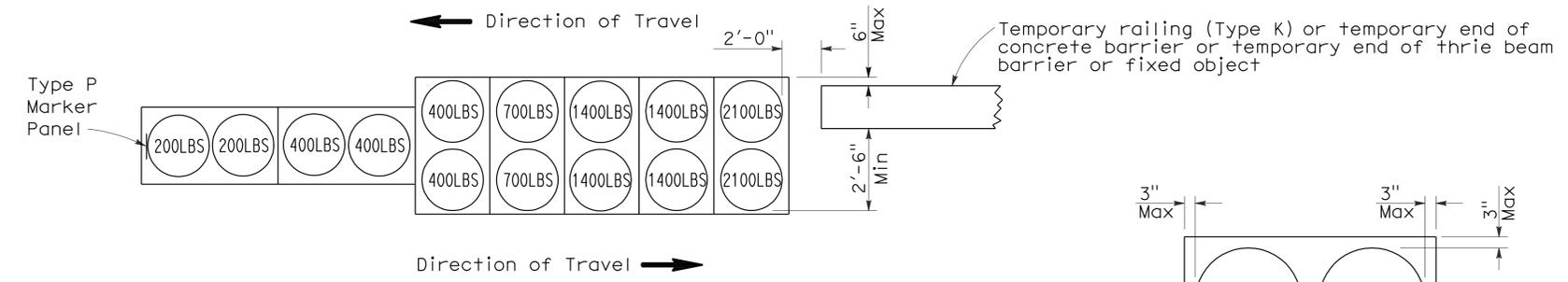
REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 2-8-10



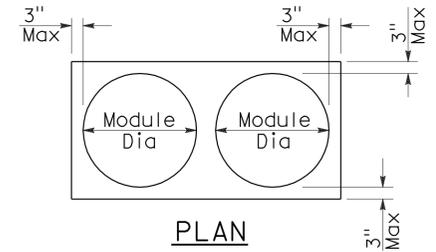
ARRAY 'TB11'

Approach speed less than 45 mph

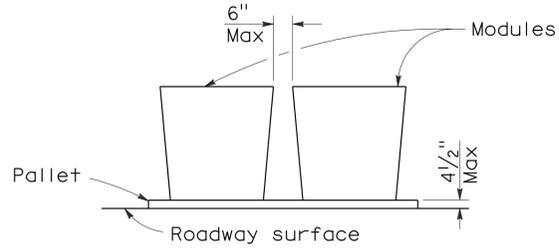


ARRAY 'TB14'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the Type P marker panel so that the bottom of the panel rests upon the pallet.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TEMPORARY CRASH CUSHION,
SAND FILLED
(BIDIRECTIONAL)**

NO SCALE

RSP T1B DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1B
DATED MAY 1, 2006 - PAGE 212 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T1B

2006 REVISED STANDARD PLAN RSP T1B

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	32	73

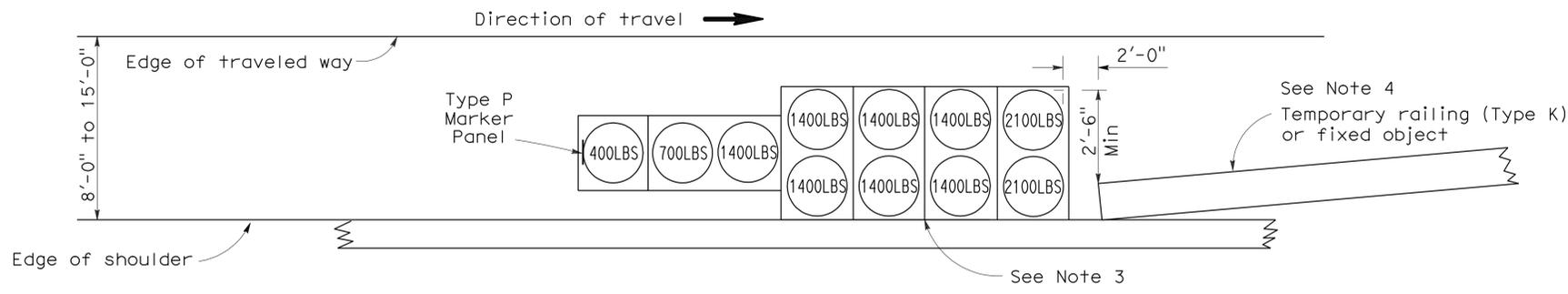
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

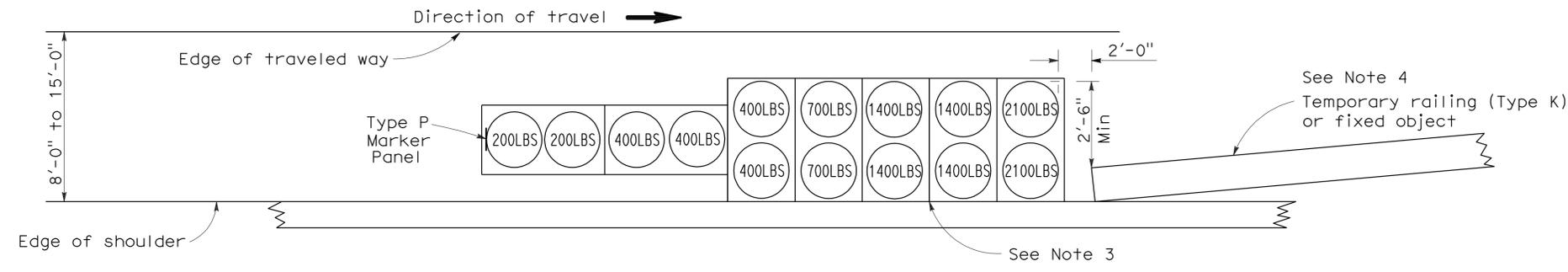
Randell D. Hiatt
REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

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To accompany plans dated 2-8-10



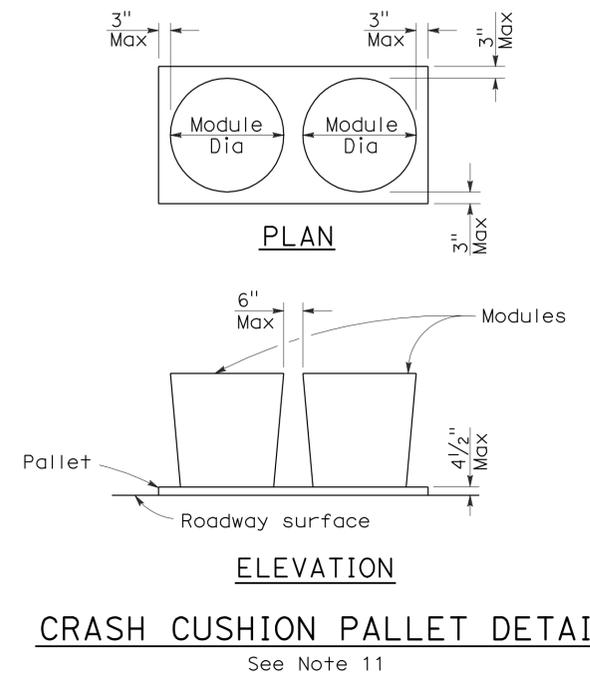
ARRAY 'TS11'
Approach speed less than 45 mph
See Note 9



ARRAY 'TS14'
Approach speed 45 mph or more
See Note 9

NOTES:

- (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
- All sand weights are nominal.
- The temporary crash cushion arrays shown on this plan shall be used only in locations where there will be traffic on one side of the temporary crash cushion array.
- If the fixed object or approach end of the temporary railing is less than 15'-0" from the edge of traveled way, a temporary crash cushion is required in a construction or work zone.
- Temporary crash cushion arrays shall not encroach on the traveled way.
- Arrays for median shoulders shall conform to details shown on this plan for outside shoulders.
- Place the Type P marker panel so that the bottom of the panel rests upon the pallet and faces traffic.
- Refer to Standard Plan A73B for marker details.
- For shoulder widths less than 8'-0", appropriate approved crash cushion protection, other than sand filled modules, shall be provided at fixed objects and at approach ends of temporary railing. The specific type of crash cushion shall be as shown on the project plans or as specified in the Special Provisions, or if not shown on the project plans or specified in the Special Provisions, shall be as approved by the Engineer.
- Approach speeds indicated conform to NCHRP 350 Report criteria.
- Use of pallets is optional.



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TEMPORARY CRASH CUSHION,
SAND FILLED
(SHOULDER INSTALLATIONS)**

NO SCALE

RSP T2 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T2
DATED MAY 1, 2006 - PAGE 213 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T2

2006 REVISED STANDARD PLAN RSP T2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	33	73

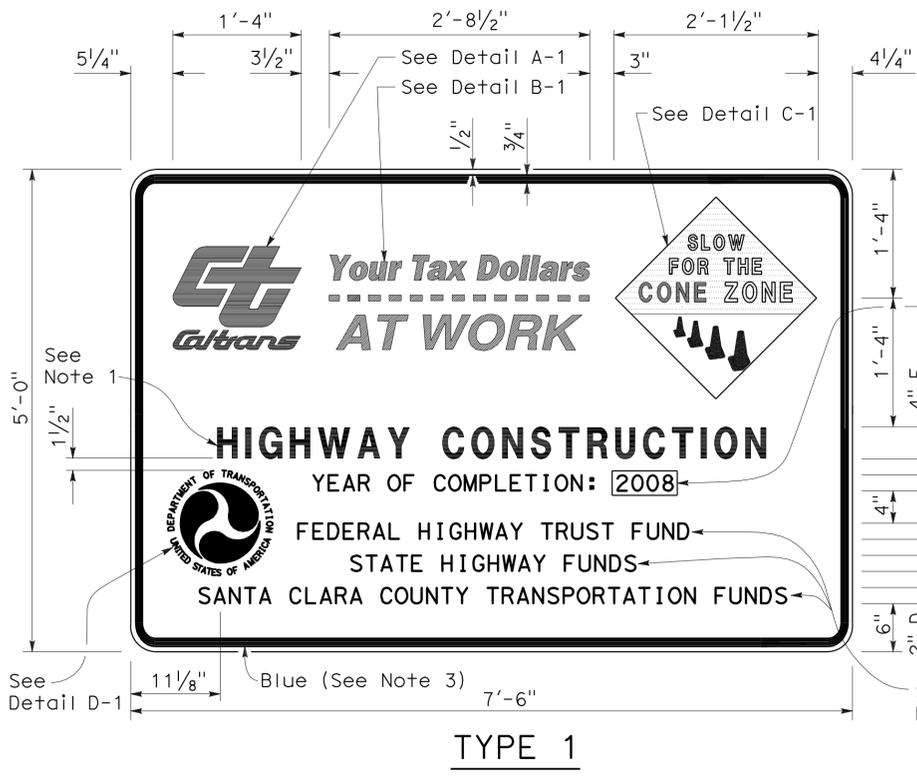
Craig W. Edwards
 REGISTERED CIVIL ENGINEER
 November 17, 2006
 PLANS APPROVAL DATE
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

REGISTERED PROFESSIONAL ENGINEER
Craig W. Edwards
 No. C36386
 Exp. 6-30-08
 CIVIL
 STATE OF CALIFORNIA

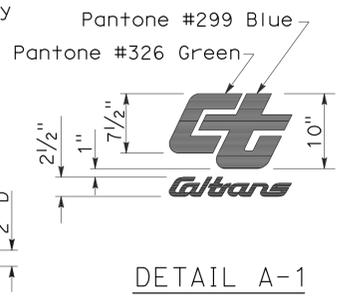
To accompany plans dated 2-8-10

NOTES:

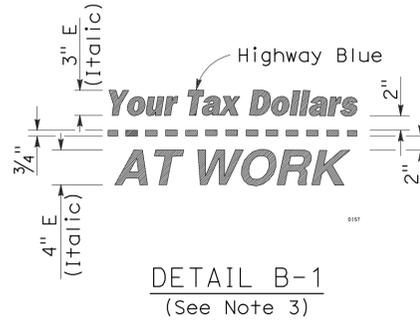
1. The sign messages shown for type of project and fund types are examples only. See the Special Provisions for the applicable type of project and fund type messages to be used.
2. Except as otherwise shown, the legend of sign shall be black on a white background (non-reflective).
3. The border of the signs and details "B-1" and "B-2" shall be blue (non-reflective).
4. The diamond in details "C-1" and "C-2" shall be blue for the background of message, "SLOW FOR THE CONE ZONE", and white background for the orange cones. The color and type of font for the "SLOW FOR THE CONE ZONE" message shall be: "SLOW" white D; "FOR THE" white D; "CONE" orange Arial font; "ZONE" white Arial font.
5. Year of completion of project construction shown on the overlay is an example only. See the Special Provisions.
6. Use when the Project involves Federal Highway Trust Fund.



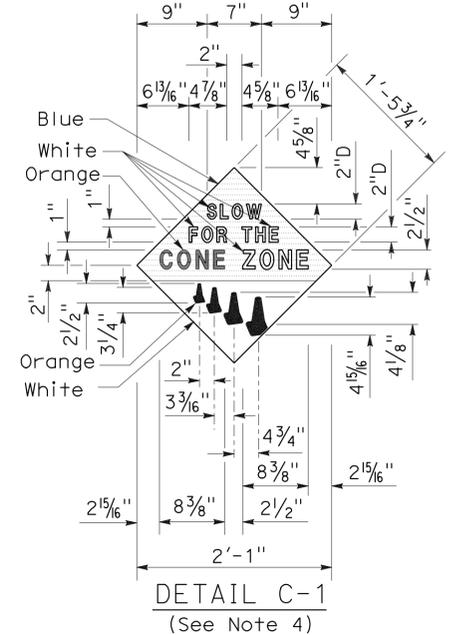
TYPE 1



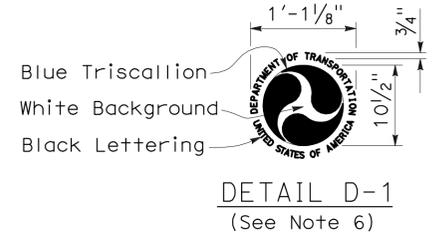
DETAIL A-1



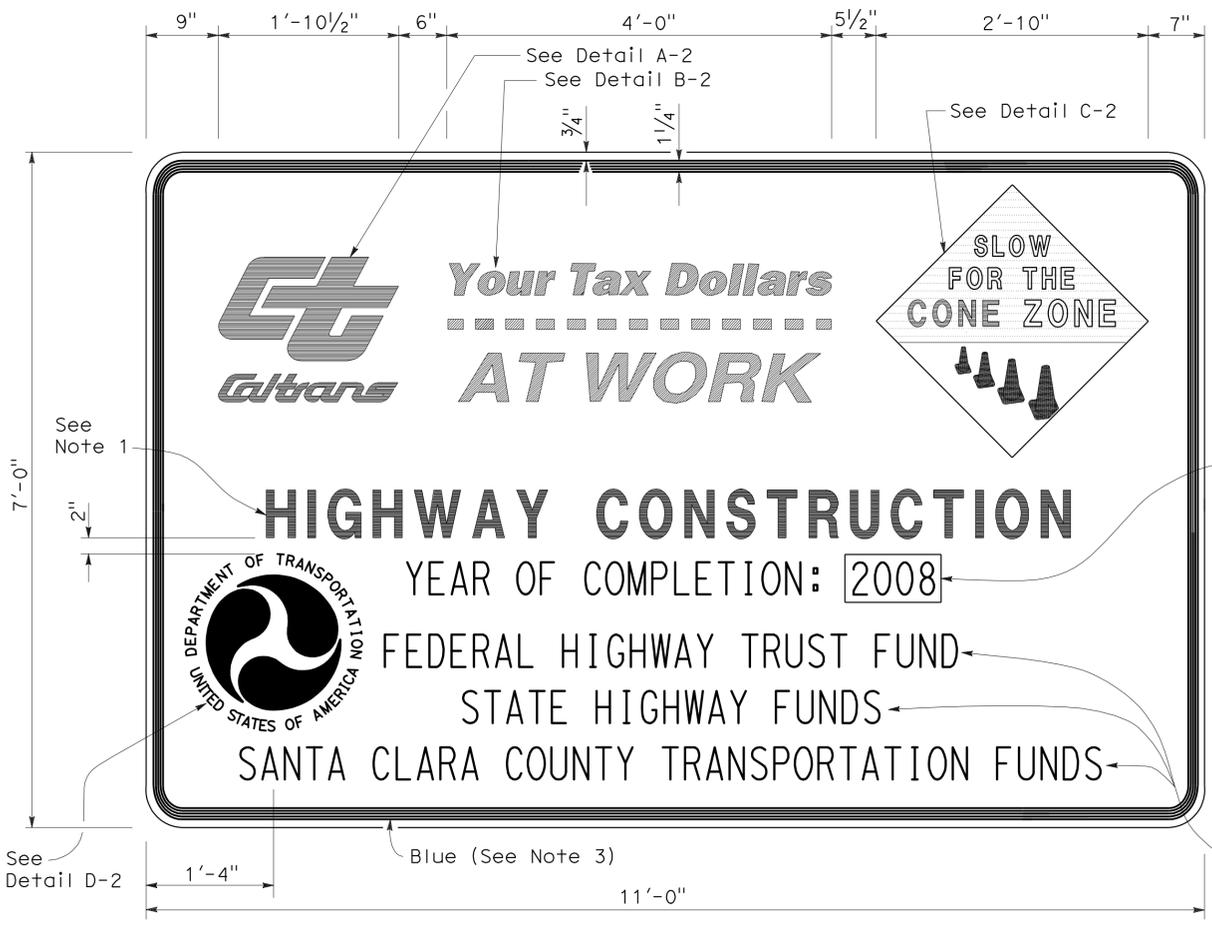
DETAIL B-1
(See Note 3)



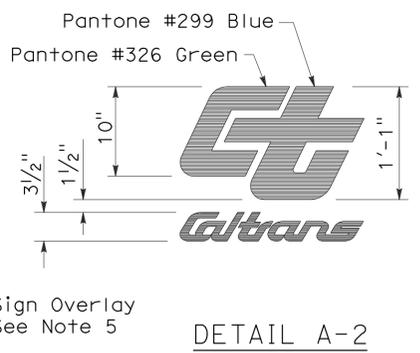
DETAIL C-1
(See Note 4)



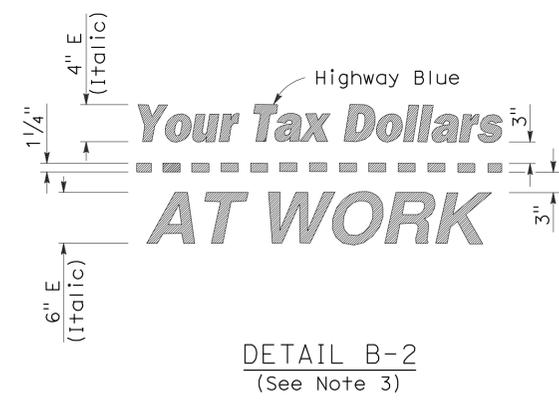
DETAIL D-1
(See Note 6)



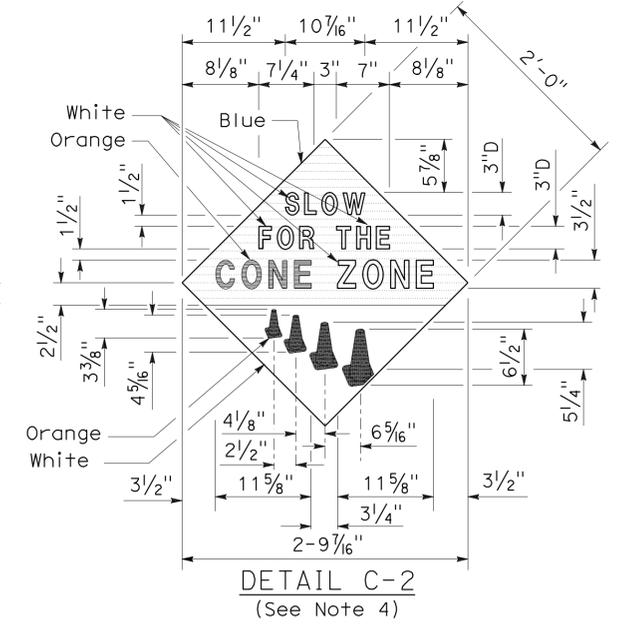
TYPE 2



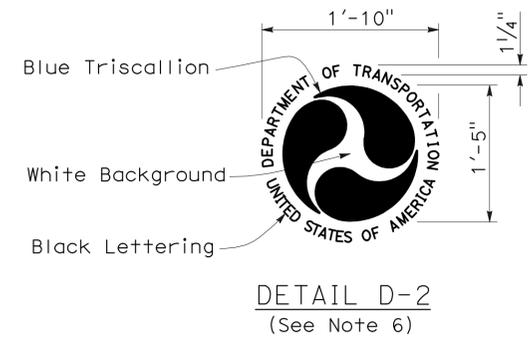
DETAIL A-2



DETAIL B-2
(See Note 3)



DETAIL C-2
(See Note 4)



DETAIL D-2
(See Note 6)

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
CONSTRUCTION PROJECT FUNDING IDENTIFICATION SIGNS

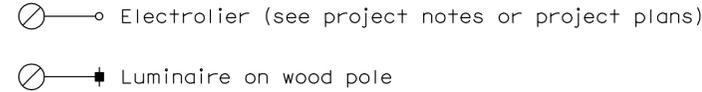
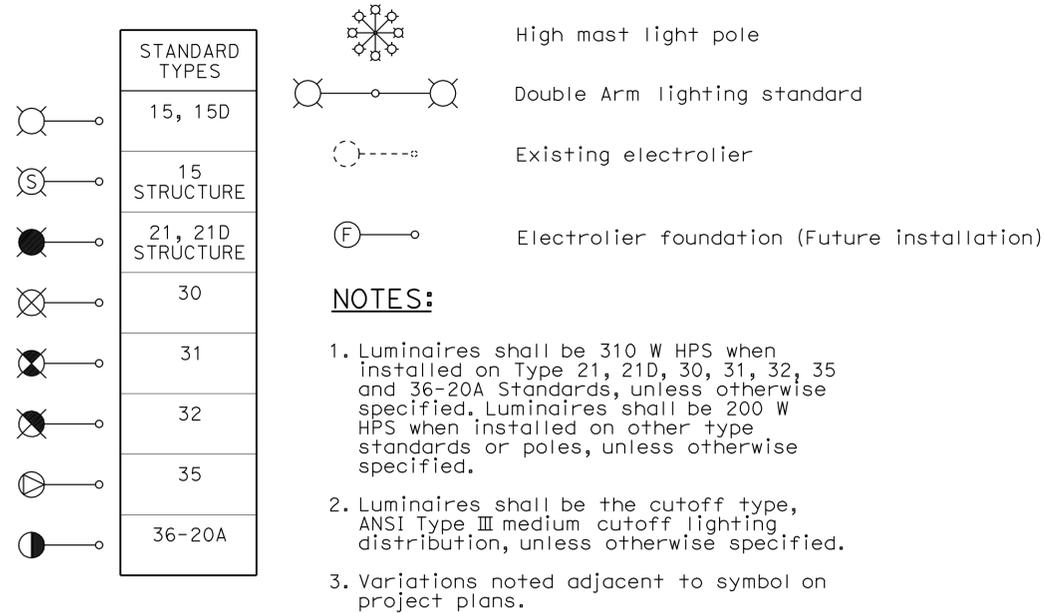
NO SCALE

RSP T7 DATED NOVEMBER 17, 2006 SUPERSEDES STANDARD PLAN T7
 DATED MAY 1, 2006 - PAGE 217 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T7

2006 REVISED STANDARD PLAN RSP T7

ELECTROLIERS



STANDARD NOTES:

- AB** Abandon. If applied to conduit, remove conductors.
- BC** Install pull box in existing conduit run.
- BP** Pedestrian barricade, type as indicated on plan.
- CB** Install conduit into existing pull box.
- CC** Connect new and existing conduit. Remove existing conductors and install conductors as indicated.
- CF** Conduit to remain for future use. Remove conductors. Install pull wire or rope.
- DH** Detector handhole.
- FA** Foundation to be abandoned.
- IS** Install sign on signal mast arm.
- NS** No slip base on standard.
- PEC** Photoelectric control.
- PEU** Photoelectric unit.
- RC** Equipment or material to be removed and become the property of the Contractor.
- RE** Remove electrolier, fuses and ballast. Tape ends of conductors.
- RL** Relocate equipment.
- RR** Remove and reuse equipment.
- RS** Remove and salvage equipment.
- SC** Splice new to existing conductors.
- SD** Service disconnect.
- SF** Standard to remain for future use. Remove luminaire, pole conductors, fuses and ballast.
- TSP** Telephone service point.

ABBREVIATIONS AND EQUIPMENT DESIGNATIONS

PROPOSED EXISTING

PROPOSED	EXISTING	DESCRIPTION
BBS	bbs	Battery backup system
BC	bc	Bolt circle
C	C	Conduit
CCTV	cctv	Closed circuit television
CKT	ckt	Circuit
CMS	cms	Changeable message sign
DLC	dlc	Loop detector lead-in cable
EMS	ems	Extinguishable message sign
EVC	evc	Emergency vehicle cable
EVD	evd	Emergency vehicle detector
FB	fb	Flashing beacon
FBCA	fbca	Flashing beacon control assembly
FBS	fbs	Flashing beacon with slip base
FO	fo	Fiber optic
G	G	Ground (Equipment Grounding Conductor)
GFCI	GFCI	Ground fault circuit interrupt
HAR	har	Highway advisory radio
HEX	hex	Hexagonal
HPS	hps	High pressure sodium
IISNS	iisns	Internally illuminated street name sign
ISL	isl	Induction sign lighting
LED	led	Light emitting diode
LMA	lma	Luminaire mast arm
LPS	lps	Low pressure sodium
LTG	ltg	Lighting
LUM	lum	Luminaire
MAT	mat	Mast arm mounting vehicle signal faces, top attachment
MAS	mas	Mast arm mounting vehicle signal faces, side attachment
MAS-4A	mas-4A	Mast arm mounting vehicle signal faces, side attachment - 4 signal section
MAS-4B	mas-4B	Mast arm mounting vehicle signal faces, side attachment - 4 signal section
MAS-4C	mas-4C	Mast arm mounting vehicle signal faces, side attachment - 4 signal section
MAS-5A	mas-5A	Mast arm mounting vehicle signal faces, side attachment - 5 signal section
MAS-5B	mas-5B	Mast arm mounting vehicle signal faces, side attachment - 5 signal section
MC	mc	Mercury contactor
M/M	m/m	Multiple to multiple transformer
MT	mt	Conduit with pull wire or rope only
MTG	mtg	Mounting
	mv	Mercury vapor lighting fixture
N	N	Neutral (Grounded Conductor)
NC	NC	Normally closed
NO	NO	Normally open
PB	pb	Pull box
PEC	pec	Photoelectric control (Type I, II, III, IV or V as shown)
PED	ped	Pedestrian
PEU	peu	Photoelectric unit
PPB	ppb	Pedestrian push button
RL		Relocated equipment
RM	rm	Ramp metering
SB	sb	Slip base
SIC	sic	Signal interconnect cable
SIG	sig	Signal
SMA	sma	Signal mast arm
SNS	sns	Street name sign
SP	sp	Service point
TDC	tdc	Telephone demarcation cabinet
TMS	tms	Traffic monitoring station
TOS	tos	Traffic Operations System
VEH	veh	Vehicle
XFMR	xfmr	Transformer
COMM	comm	Communication
RWIS	rwis	Roadway weather information system

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	34	73

Jeffery G. McRae
REGISTERED ELECTRICAL ENGINEER

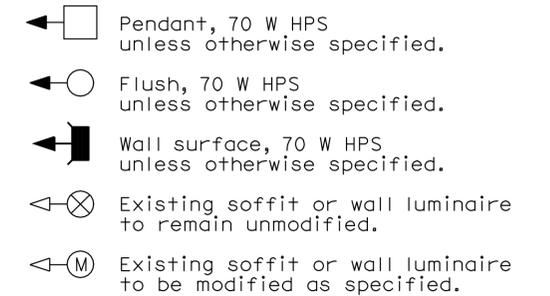
October 5, 2007
PLANS APPROVAL DATE

Jeffery G. McRae
No. E14512
Exp. 6-30-08
ELECTRICAL
STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 2-8-10

SOFFIT AND WALL MOUNTED LUMINAIRES



NOTE:

Arrow indicates "street side" of luminaire.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS)

NO SCALE

RSP ES-1A DATED OCTOBER 5, 2007 SUPERSEDES STANDARD PLAN ES-1A DATED MAY 1, 2006 - PAGE 400 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1A

2006 REVISED STANDARD PLAN RSP ES-1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	35	73

Jeffery G. McRae
 REGISTERED ELECTRICAL ENGINEER
 October 5, 2007
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 Jeffrey G. McRae
 No. E14512
 Exp. 6-30-08
 ELECTRICAL
 STATE OF CALIFORNIA

CONDUIT

PROPOSED	EXISTING	
---	---	Lighting Conduit, unless otherwise indicated or noted
---	---	Traffic signal conduit
-C-	-c-	Communication conduit
-T-	-t-	Telephone conduit
-F-	-f-	Fire alarm conduit
-FO-	-fo-	Fiber optic conduit
---	---	Conduit termination
		Conduit riser in/on structure or service pole

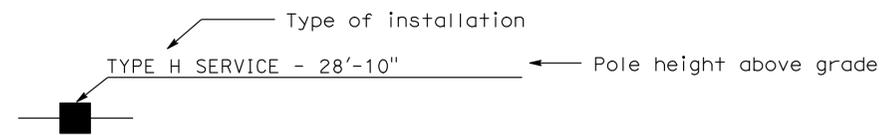
SIGNAL EQUIPMENT

PROPOSED	EXISTING	
		Pedestrian signal face
		Pedestrian push button post
		Pedestrian barricade
		Vehicle signal face (with backplate, 3-Section: red, yellow and green)
		Vehicle signal face with angle visors
		Modifications of basic symbols: "L" indicates all non-arrow sections louvered "LG" indicates louvered green section only "PV" indicates 12" programmed visibility sections "8" indicates all 8" sections (only when specified)
		Type 15TS and Vehicle signal face
		Vehicle signal face with red, yellow and green left arrow sections
		Vehicle signal face with red and yellow sections and up green arrow
		Vehicle signal face (5 Section) with red, yellow and green sections and yellow and green right arrows
		Type 1 Standard and attached vehicle signal faces
		Standard with signal mast arm only and attached vehicle signal faces and internally illuminated street name sign
		Type 33 Standard, Left-turn vehicle signal face and sign
		Standard with luminaire and signal mast arms and attached vehicle signal faces
		Cantilever flashing beacon Type 9 Frame, with a sign unless otherwise specified or indicated
		Type 15-FBS Standard with two vehicle signal face sections with lens, backplate and visor with a sign
		Flashing beacon. One vehicle signal face section with lens, backplate and visor. "R" indicates red indication, "Y" indicates yellow indication
		Controller assembly. Door indicates front of cabinet

SERVICE EQUIPMENT

PROPOSED	EXISTING	
---OH	---oh	Overhead lines
		Wood pole "U" indicates utility owned
		Pole guy with anchor
		Utility transformer - ground mounted
		Service equipment enclosure type
		Service equipment enclosure door indicates front of enclosure
		Telephone demarcation cabinet

POLE-MOUNTED SERVICE DESIGNATION



ILLUMINATED OVERHEAD SIGN

PROPOSED	EXISTING	
		Overhead sign - Single post
		Overhead sign - Two post
		Overhead sign - Mounted on structure
		Overhead sign with electrolier

SIGNAL EQUIPMENT Cont

PROPOSED	EXISTING	
		Guard post
		Type 1 Standard with "Meter On" sign
		Emergency Vehicle detector

NOTES:

- All signal sections shall be 12" unless shown otherwise.
- Signal heads shall be provided with backplates unless shown otherwise.
- Signal indication shall be LED.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**ELECTRICAL SYSTEMS
 (SYMBOLS AND ABBREVIATIONS)**
 NO SCALE

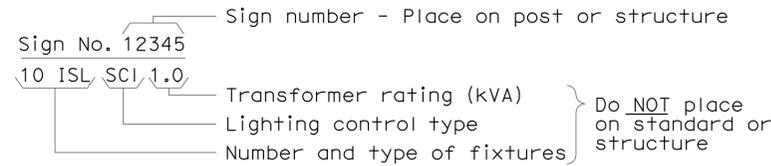
RSP ES-1B DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-1B
 DATED MAY 1, 2006 - PAGE 401 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1B

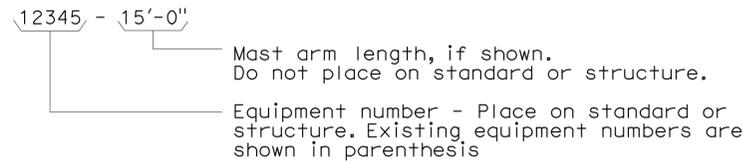
2006 REVISED STANDARD PLAN RSP ES-1B

EQUIPMENT IDENTIFICATION

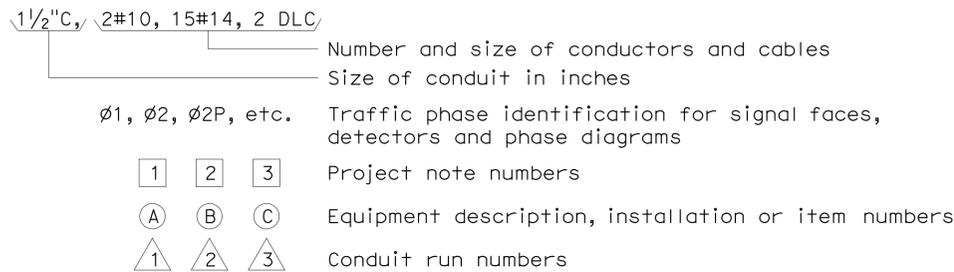
ILLUMINATED SIGN IDENTIFICATION NUMBER:



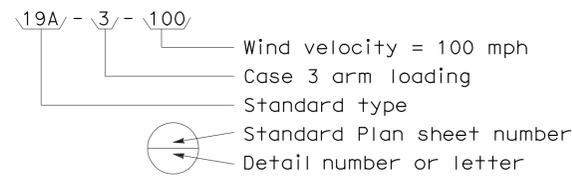
ELECTROLIER OR EQUIPMENT IDENTIFICATION NUMBER:



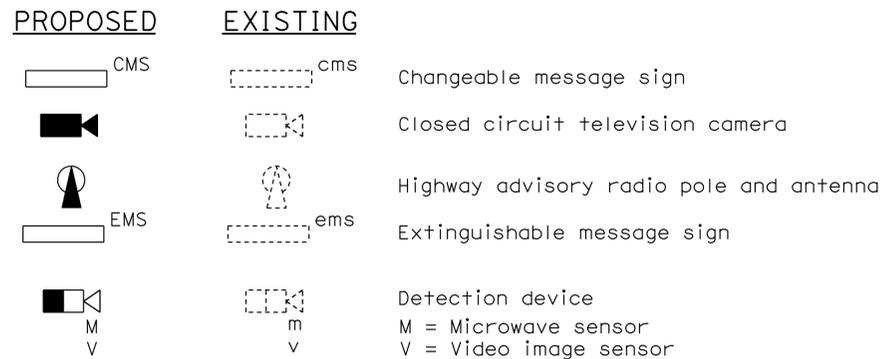
CONDUIT AND CONDUCTOR IDENTIFICATION:



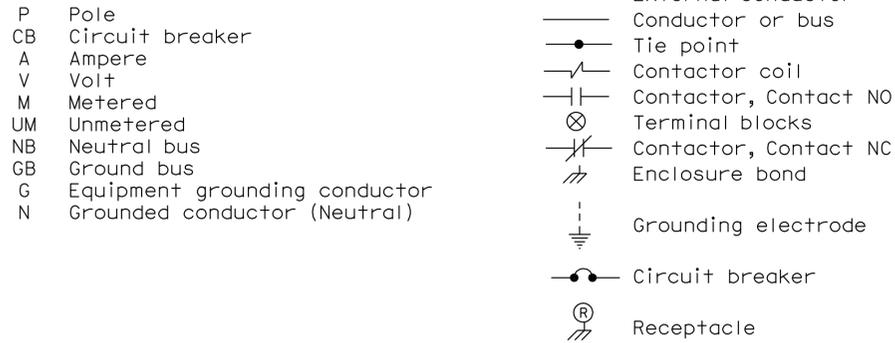
SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):



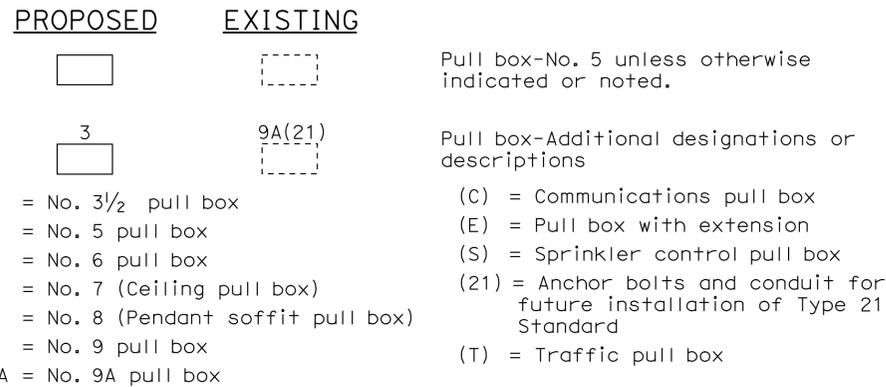
MISCELLANEOUS EQUIPMENT



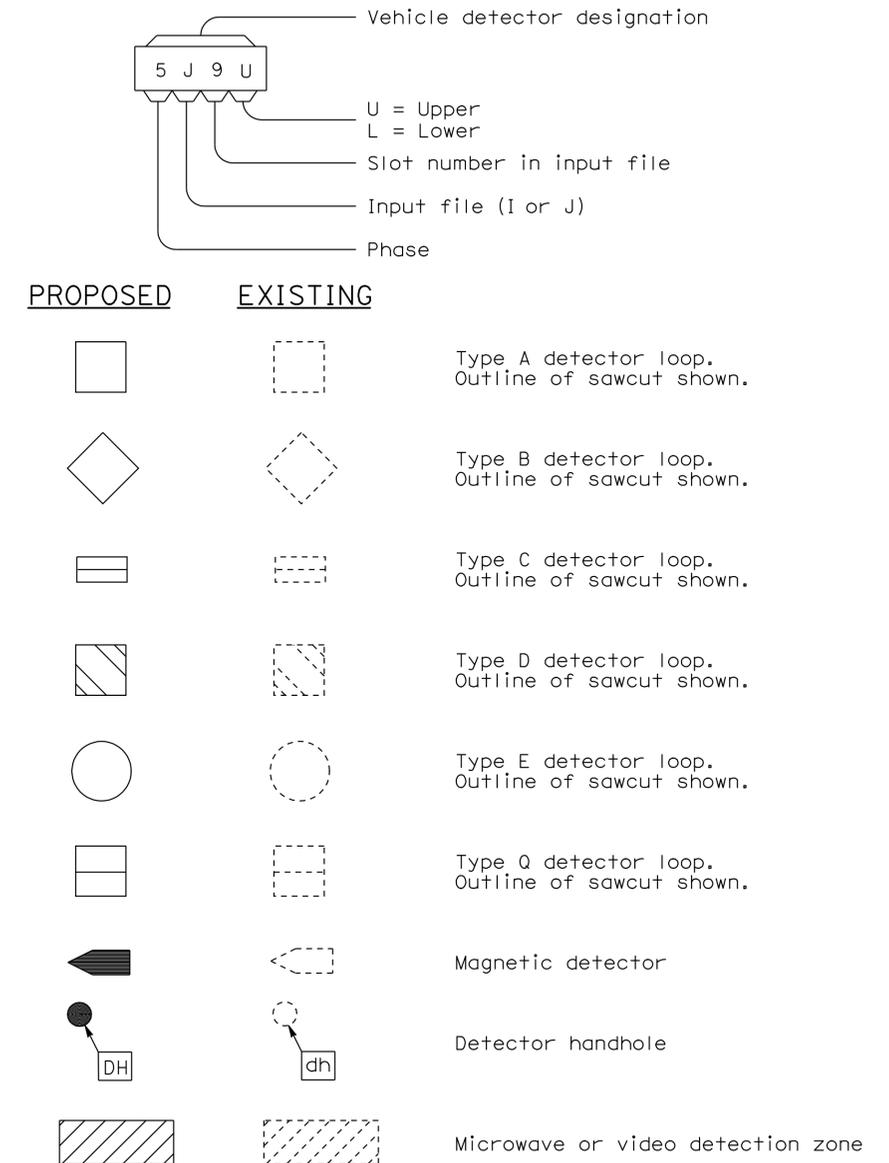
WIRING DIAGRAM LEGEND



PULL BOXES



VEHICLE DETECTORS



STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
ELECTRICAL SYSTEMS
(SYMBOLS AND ABBREVIATIONS)
 NO SCALE

RSP ES-1C DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-1C
 DATED MAY 1, 2006 - PAGE 402 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1C

2006 REVISED STANDARD PLAN RSP ES-1C

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
GP	GENERAL PLAN
SANITARY	
SS0-0	LEGEND AND ABBREVIATIONS
SS0-1	EXISTING SITE PLAN
SSI-1	PARTIAL MODIFIED SITE PLAN
SSI-2	EASTBOUND SEPTIC TANK
SSI-3	EASTBOUND URINAL SEPTIC TANK
SSI-4	RECIRCULATION TANK
SSI-5	RECIRCULATION TANK PLAN
SSI-6	RECIRCULATING SAND FILTER
SSI-7	RECIRCULATING SAND FILTER DETAILS
SSI-8	SUBSURFACE WETLANDS
SSI-9	SUBSURFACE WETLANDS DETAILS
SSI-10	EFFLUENT STORAGE TANK
SS2-1	PARTIAL MODIFIED SITE PLAN
SS2-2	WESTBOUND SEPTIC TANK
SS2-3	WESTBOUND URINAL SEPTIC TANK
SS3-1	DETAILS 1
SS3-2	DETAILS 2
MECHANICAL	
M-1	SITE PLAN
M-2	MECHANICAL PLAN-1
M-3	MECHANICAL PLAN-2
ELECTRICAL	
EE0-1	EXISTING SITE PLAN
EE1-0	LEGEND
EE1-1	MODIFIED ELECTRICAL SITE PLAN
EE1-2	ENLARGED PARTIAL SITE PLAN NO. 1 AND RECIRCULATION TANK DETAILS
EE1-3	RECIRCULATION TANK CONTROL PANEL & PANEL E DETAILS
EE1-4	ENLARGED PARTIAL SITE PLAN NO. 2 AND URINAL SEPTIC TANK DETAILS
EE1-5	ENLARGED PARTIAL SITE PLAN NO. 3 AND EFFLUENT STORAGE TANK DETAILS
EE1-6	EFFLUENT STORAGE TANK CONTROL PANEL AND PULL BOX DETAILS
EE1-7	COMFORT STATION PLAN
EE1-8	BUILDING NO. 1 FIXTURE SENSOR PLAN
EE1-9	BUILDING NO. 2 AND 3 FIXTURE SENSOR PLAN
EE2-0	LEGEND
EE2-1	MODIFIED ELECTRICAL SITE PLAN
EE2-2	ENLARGED PARTIAL SITE PLAN NO. 1, URINAL SEPTIC TANK & SEPTIC TANK DETAILS
EE2-3	URINAL SEPTIC TANK AND SEPTIC TANK DETAILS
EE2-4	URINAL SEPTIC TANK, SEPTIC TANK AND PANEL W DETAILS

CALIFORNIA STATE FIRE MARSHAL APPROVED
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by: *John E. Woods*
 Approval date: 09-08-09
 CSFM File No. 01-13-11-0021

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	37	73

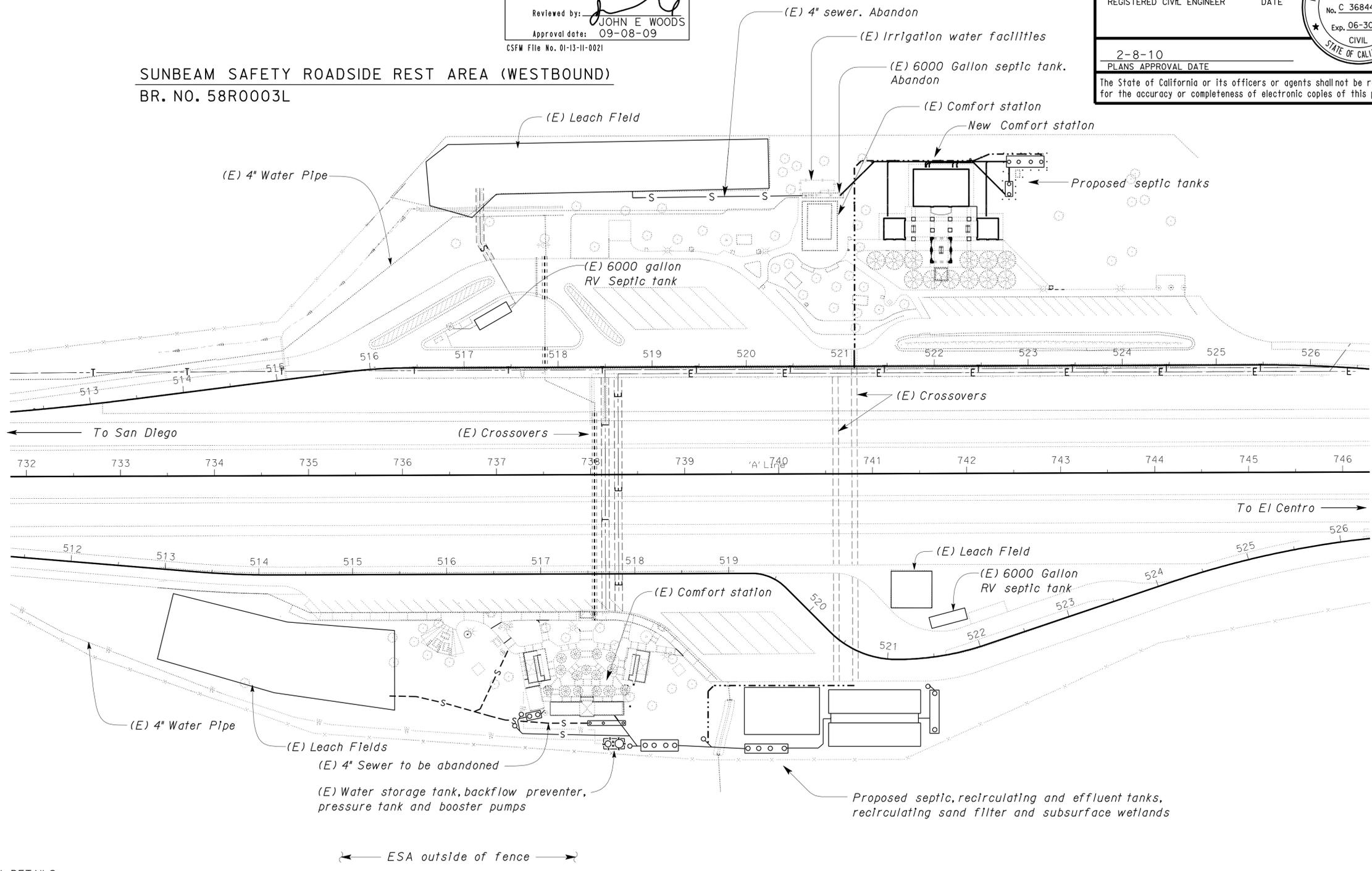
Serome R. Marcotte 10-28-09
 REGISTERED CIVIL ENGINEER DATE

2-8-10
 PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

J. Marcotte
 No. C 36844
 Exp. 06-30-10
 CIVIL
 STATE OF CALIFORNIA

**SUNBEAM SAFETY ROADSIDE REST AREA (WESTBOUND)
 BR. NO. 58R0003L**



**SUNBEAM SAFETY ROADSIDE REST AREA (EASTBOUND)
 BR. NO. 58R0003R**

SITE PLAN
 SCALE 1" = 60'-0"

Paul Schreff
 DESIGN SUPERVISOR
Serome R. Marcotte
 DESIGN ENGINEER

DESIGN	BY R E Schmitz	CHECKED Jerry Marcotte
DETAILS	BY R E Schmitz	CHECKED Jerry Marcotte
QUANTITIES	BY R E Schmitz	CHECKED Jerry Marcotte

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO. 58R0003R/L
 POST MILE 31.2

SUNBEAM SAFETY ROADSIDE REST AREA SEWER TREATMENT SYSTEM
 GENERAL PLAN

SHEET OF
GP

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	38	73

<i>Jerry Marcotte</i>		10-28-09
REGISTERED CIVIL ENGINEER	DATE	
2-8-10		
PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.		



ABBREVIATIONS

AB	AGGREGATE BASE	IE	INVERT ELEVATION (IN FEET)
AC	ASPHALT CONCRETE	IN	INCH
B	BUNG	JB	JUNCTION BOX
BLDG	BUILDING	KW	KILOWATT
C	CONDUIT	LB	POUND
C-C	CENTER TO CENTER	LT	LEFT
CFS	CUBIC FEET PER SECOND	MAX	MAXIMUM
CI	CAST IRON	MBV	MOTORIZED BALL VALVE
CL	CHAIN LINK	MH	MANHOLE
CMP	CORRUGATED METAL PIPE	MIN	MINIMUM
CONC	CONCRETE	N	NORTH
CO	CLEANOUT	NB	NORTHBOUND
COTF	CLEANOUT TO FLOOR	NIC	NOT IN CONTRACT
COTG	CLEANOUT TO GRADE	NO	NUMBER
CPLG	COUPLING	OC	ON CENTER
CW	COLD WATER PIPE	OD	OUTSIDE DIAMETER
D	DRAIN	OG	ORIGINAL GROUND
DBH	DIAMETER AT BREAST HEIGHT	P	PITCH
DI	DRAIN INLET	PCC	PORTLAND CEMENT CONCRETE
DIA	DIAMETER	PH	PHASE
DP	DRAIN PIPE	PRV	PRESSURE REDUCING VALVE
E	ELECTRICAL	PVC	POLYVINYL CHLORIDE
(E)	EXISTING	R	RADIUS
EA	EACH	RCP	REINFORCED CONCRETE PIPE
EL	ELEVATION	REQ	REQUIRED
EP	EDGE OF PAVEMENT	rpm	REVOLUTIONS PER MINUTE
EQ	EQUAL	RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
ESA	ENVIRONMENTALLY SENSITIVE AREA	RPU	RECYCLE PROCESS UNIT
FOB	FACE OF BUILDING	RSF	RECIRCULATING SAND FILTER
FF	FINISH FLOOR	RT	RIGHT
FG	FINISH GRADE	R/W	RIGHT-OF-WAY
FL	FLOW LINE	S	SLOPE
FM	FORCE MAIN	SB	SOUTHBOUND
FOC	FACE OF CONCRETE	SCH	SCHEDULE
FS	FLOW SWITCH	SD	STORM DRAIN
FT	FEET	SP	SEWER PIPE
FTR	FLUE THROUGH ROOF	SQ	SQUARE
GA	GAUGE	STA	STATION
GAC	GRANULAR ACTIVATED CARBON	STD	STANDARD
GAL	GALLON	TBM	TEMPORARY BENCH MARK
GPM	GALLONS PER MINUTE	TOC	TOP OF CONCRETE
GALV	GALVANIZED	TOT	TOTAL
GSP	GALVANIZED STEEL PIPE	TYP	TYPICAL
GV	GATE VALVE	VAC	VOLTS AC
H	HEIGHT	VCP	VITRIFIED CLAY PIPE
HDPE	HIGH DENSITY POLYETHYLENE	W	WATER
HF	HOSE FAUCET	W/O	WITHOUT
HP	HORSEPOWER	WP	WATER PIPE
HZ	HERTZ	WSP	WELDED STEEL PIPE
ID	INSIDE DIAMETER		

LEGEND

———— A ———	AIR		DETAIL SHEET NUMBER
———— C ———	ELECTRICAL CONDUIT	99.00	NEW GRADE IN FEET
———— D ———	DRAIN	X (100.00)	EXISTING SPOT GRADE IN FEET
———— FM ———	FORCE MAIN		SURFACE DRAINAGE
———— G ———	GAS		ABANDON
———— OD ———	OVERFLOW DRAIN PIPE		BENCHMARK ELEVATION
———— PW ———	PRESSURE WASHER PIPE		CENTERLINE
———— RD ———	RETURN DRAIN		DIAMETER
———— RW ———	WATER (NON POTABLE)		SECTION / ELEVATION LETTER SHEET NUMBER
———— S ———	SANITARY SEWER		TREE
———— T ———	TELEPHONE		DIRECTION OF TRAFFIC
———— V ———	VENT		
———— W ———	WATER (POTABLE)		
———— LS ———	LANDSCAPE IRRIGATION WATER		
———— X ———	FENCE		

PIPE FITTINGS AND VALVES

	CAP
	ELBOW, TURNED DOWN
	FLEXIBLE CONNECTOR
	REDUCER, CONCENTRIC
	REDUCER, ECCENTRIC
	PRESSURE GAUGE (WITH VALVE AND SNUBBER)
	UNION
	UNION, INSULATING
	VALVE, BALL
	VALVE, CHECK
	VALVE, GATE
	VALVE, SAFETY RELIEF
	VALVE, PRESSURE REDUCING
	HOSE FAUCET

GENERAL WORK NOTES

- The Contractor shall verify all controlling field dimensions and conditions before ordering or fabricating any materials.
- The Contractor shall verify exact location of all underground facilities and utilities prior to start of construction.
- No 90 degree bends allowed on drain or sewer pipe. Where 90 degree bends are shown, use two 45 degree bends.
- All building work shall comply with the following codes:
 2007 California Fire Code
 2007 California Mechanical Code
 2007 California Plumbing Code
 2007 California Electrical Code

DESIGN BY <i>Manjunath Akkipeddi</i> CHECKED <i>Jerry Marcotte</i> DETAILS BY <i>Manjunath Akkipeddi</i> CHECKED <i>Jerry Marcotte</i> QUANTITIES BY <i>Manjunath Akkipeddi</i> CHECKED <i>Jerry Marcotte</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 58R0003R/L POST MILE 31.2	SUNBEAM SAFETY ROADSIDE REST AREA SEWER TREATMENT SYSTEM LEGEND AND ABBREVIATIONS	SHEET SS0-0 OF
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	CU 11340 EA 261511	DISREGARD PRINTS BEARING EARLIER REVISION DATES →	REVISION DATES (PRELIMINARY STAGE ONLY) 02-05-07 06-15-07 08-14-07 11-16-07 01-04-08 03-27-08 07-08-08 10-28-09	SHEET OF
	DOES SD Imperial Rev. 9/02		11-FEB-2010 05:31		ss0_00.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	39	73

Jerome R. Marcotte 10-28-09
 REGISTERED CIVIL ENGINEER DATE

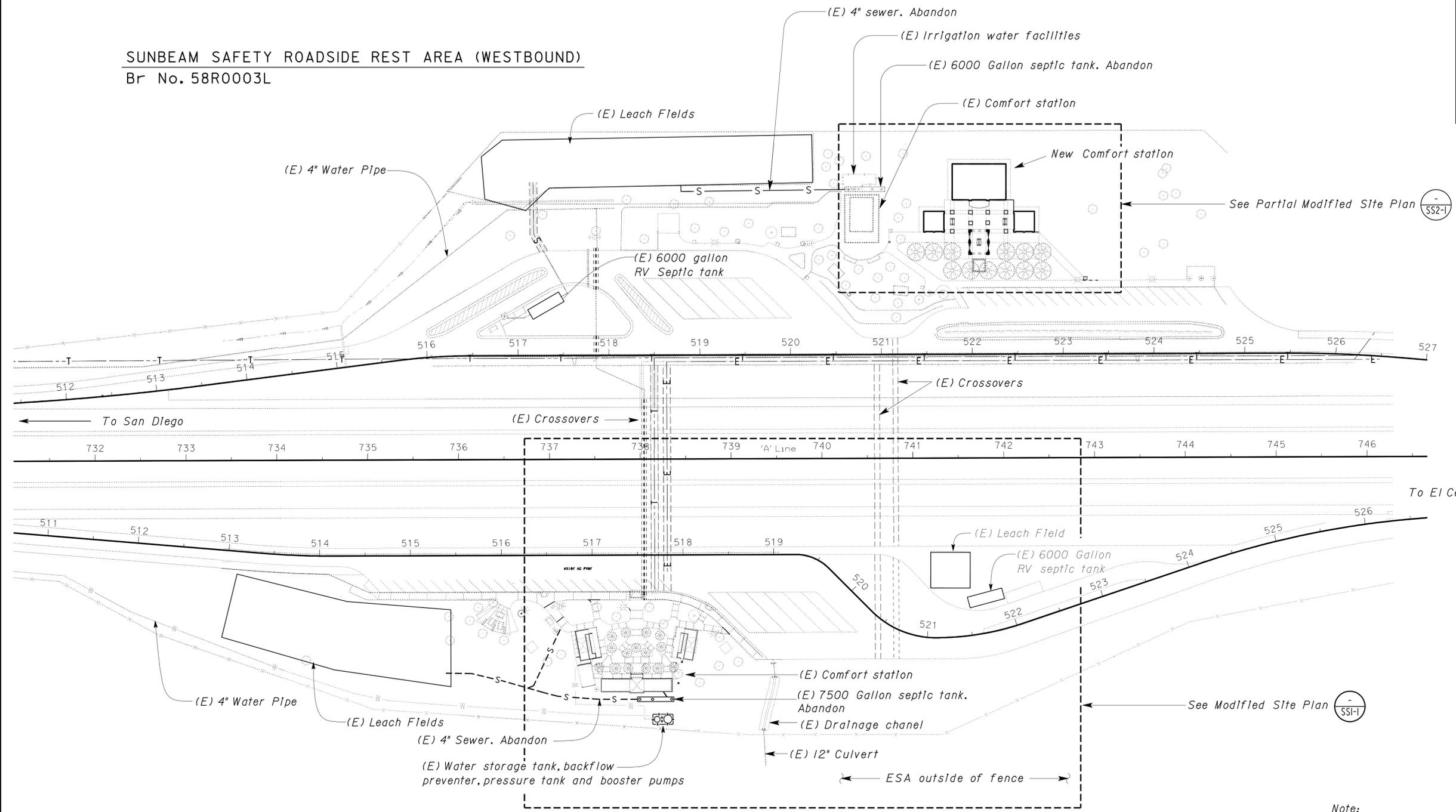
2-8-10
 PLANS APPROVAL DATE

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CALIFORNIA STATE FIRE MARSHAL APPROVED
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by: *JOHN E WOODS*
 Approval date: 09-08-09
 CSFM File No. 01-13-11-0021

SUNBEAM SAFETY ROADSIDE REST AREA (WESTBOUND)
 Br No. 58R0003L



SUNBEAM SAFETY ROADSIDE REST AREA (EASTBOUND)
 Br No. 58R0003R

EXISTING SITE PLAN

SCALE 1" = 60'-0"

Note:
 Abandon (E) sewer pipe and related equipment from (E) comfort station septic tanks to leach fields

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	DETAILS	BY R E Schmitz	CHECKED Jerry Marcotte			POST MILE	31.2		DISREGARD PRINTS BEARING EARLIER REVISION DATES →	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
	QUANTITIES	BY R E Schmitz	CHECKED Jerry Marcotte			CU 11340 EA 261511	02-05-07 06-15-07 08-14-07 11-16-07 01-04-08 03-27-08 07-03-08 08-28-08 10-28-09			OF	73	

11-FEB-2010 05:31

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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	40	73

<i>Jerome R. Marcotte</i>		10-28-09
REGISTERED CIVIL ENGINEER	DATE	

2-8-10
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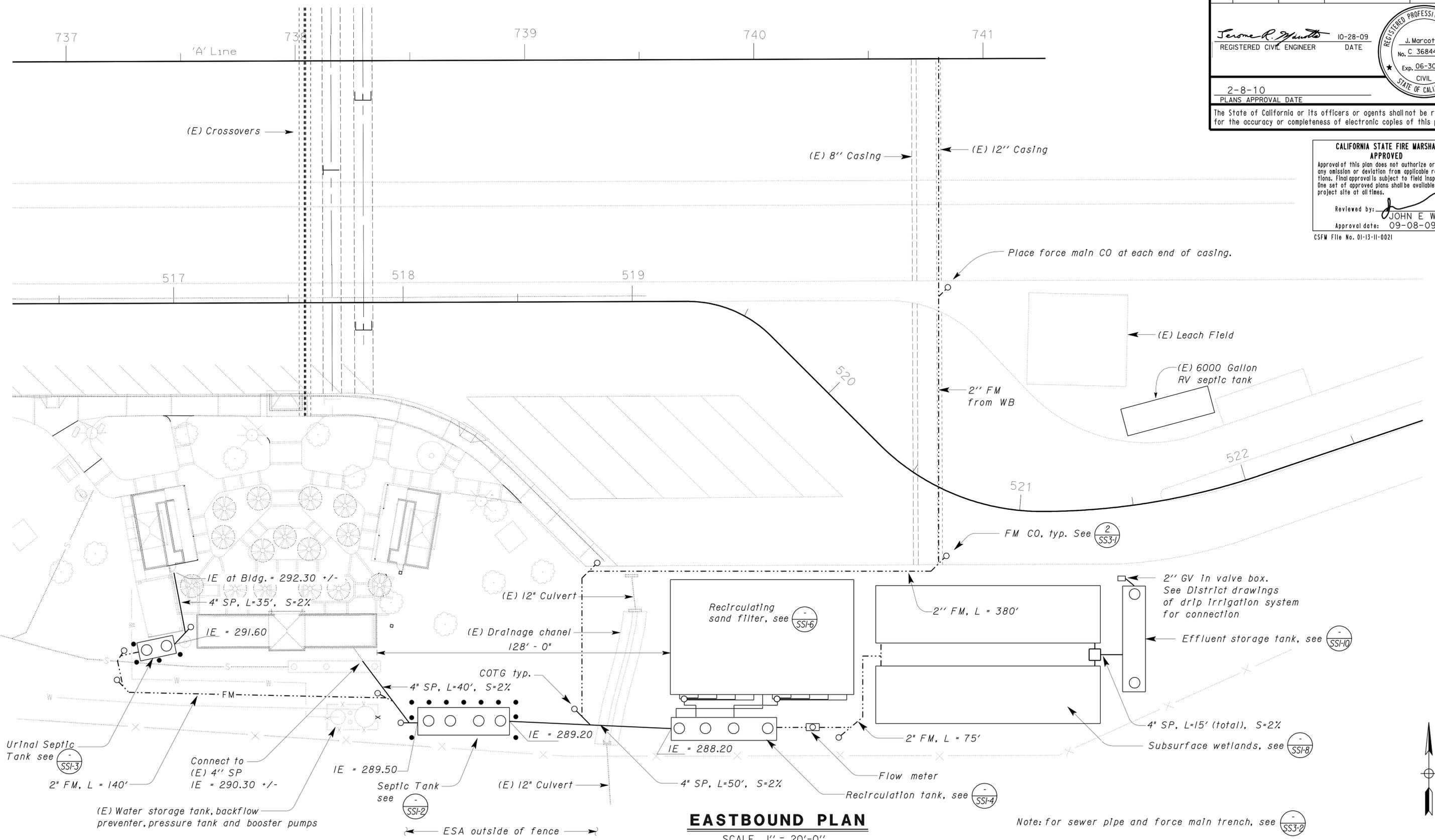


CALIFORNIA STATE FIRE MARSHAL APPROVED

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Reviewed by: *JOHN E WOODS*
Approval date: 09-08-09

CSFM File No. 01-13-11-0021



EASTBOUND PLAN
SCALE 1" = 20'-0"

Note: for sewer pipe and force main trench, see SS3-2

DOES SD Imperial Rev. 9/02	DESIGN	BY <i>R E Schmitz</i>	CHECKED <i>Jerry Marcotte</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	58R0003R	SUNBEAM SAFETY ROADSIDE REST AREA SEWER TREATMENT SYSTEM	SHEET SS1-1				
	DETAILS	BY <i>R E Schmitz</i>	CHECKED <i>Jerry Marcotte</i>			POST MILE	31.2						
	QUANTITIES	BY <i>R E Schmitz</i>	CHECKED <i>Jerry Marcotte</i>			POST MILE	31.2						
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS						0	1	2	3	CU 11340 EA 261511	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

11-FEB-2010 05:32
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	41	73

<i>Jerome R. Marcotte</i> REGISTERED CIVIL ENGINEER	10-28-09 DATE
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2-8-10 PLANS APPROVAL DATE

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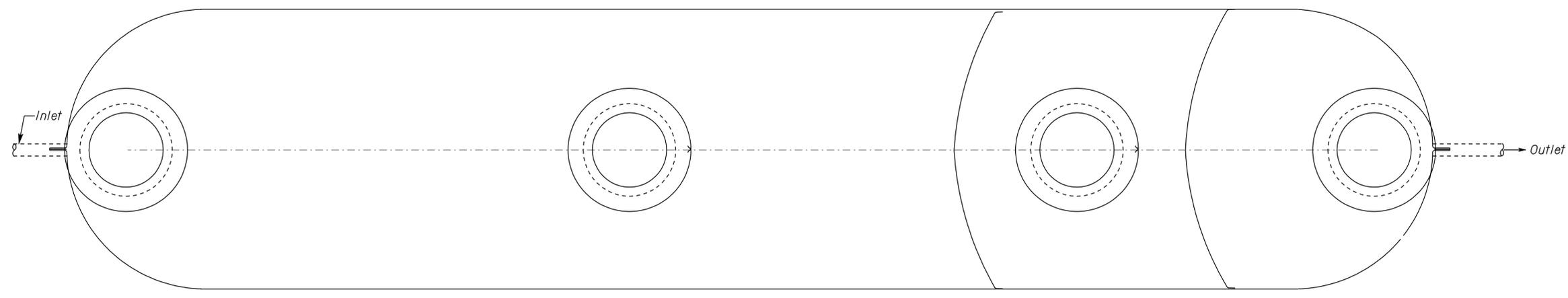


CALIFORNIA STATE FIRE MARSHAL APPROVED

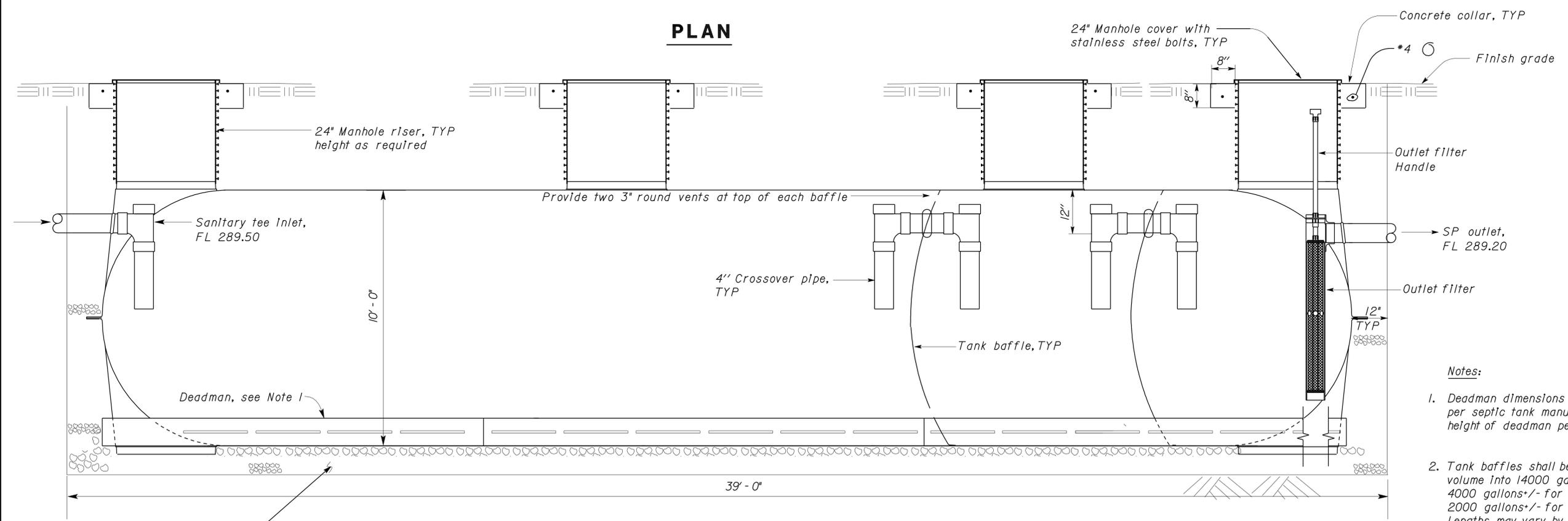
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

Reviewed by: *JOHN E WOODS*
Approval date: 09-08-09

CSFM File No. 01-13-11-0021



PLAN



SECTION

1 SEPTIC TANK - 20000 GALLON
No Scale

- Notes:
1. Deadman dimensions may vary by manufacturer. Install deadman per septic tank manufacturer's recommendations. Width and height of deadman per manufacturer's recommendation.
 2. Tank baffles shall be installed at locations to divide tank volume into 14000 gallons +/- for the first compartment, 4000 gallons +/- for the second compartment and 2000 gallons +/- for the third compartment. Lengths may vary by manufacturer.
 3. Bedding thickness and depth per manufacturer's recommendation.

DESIGN BY <i>Manjunath Akkipeddi</i> CHECKED <i>Jerry Marcotte</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 58R0003R	SUNBEAM SAFETY ROADSIDE REST AREA SEWER TREATMENT SYSTEM	SHEET	
			POST MILE 31.2		EASTBOUND	SS1-2
DETAILS BY <i>Manjunath Akkipeddi</i> CHECKED <i>Jerry Marcotte</i>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 11340 EA 261511	REVISION DATES (PRELIMINARY STAGE ONLY)			SHEET
QUANTITIES BY <i>Manjunath Akkipeddi</i> CHECKED <i>Jerry Marcotte</i>			0	1	2	3

DOES SD Imperial Rev. 9/02

DISREGARD PRINTS BEARING EARLIER REVISION DATES

11-FEB-2010 05:32

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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	42	73

<i>Jerome R. Marcotte</i> REGISTERED CIVIL ENGINEER	10-28-09 DATE
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2-8-10 PLANS APPROVAL DATE

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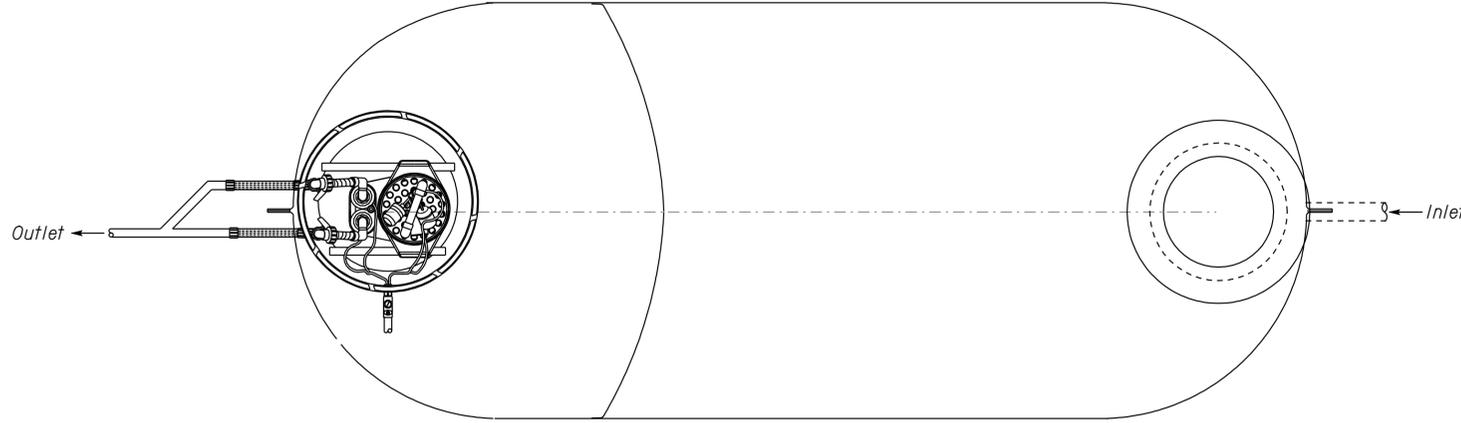


CALIFORNIA STATE FIRE MARSHAL APPROVED

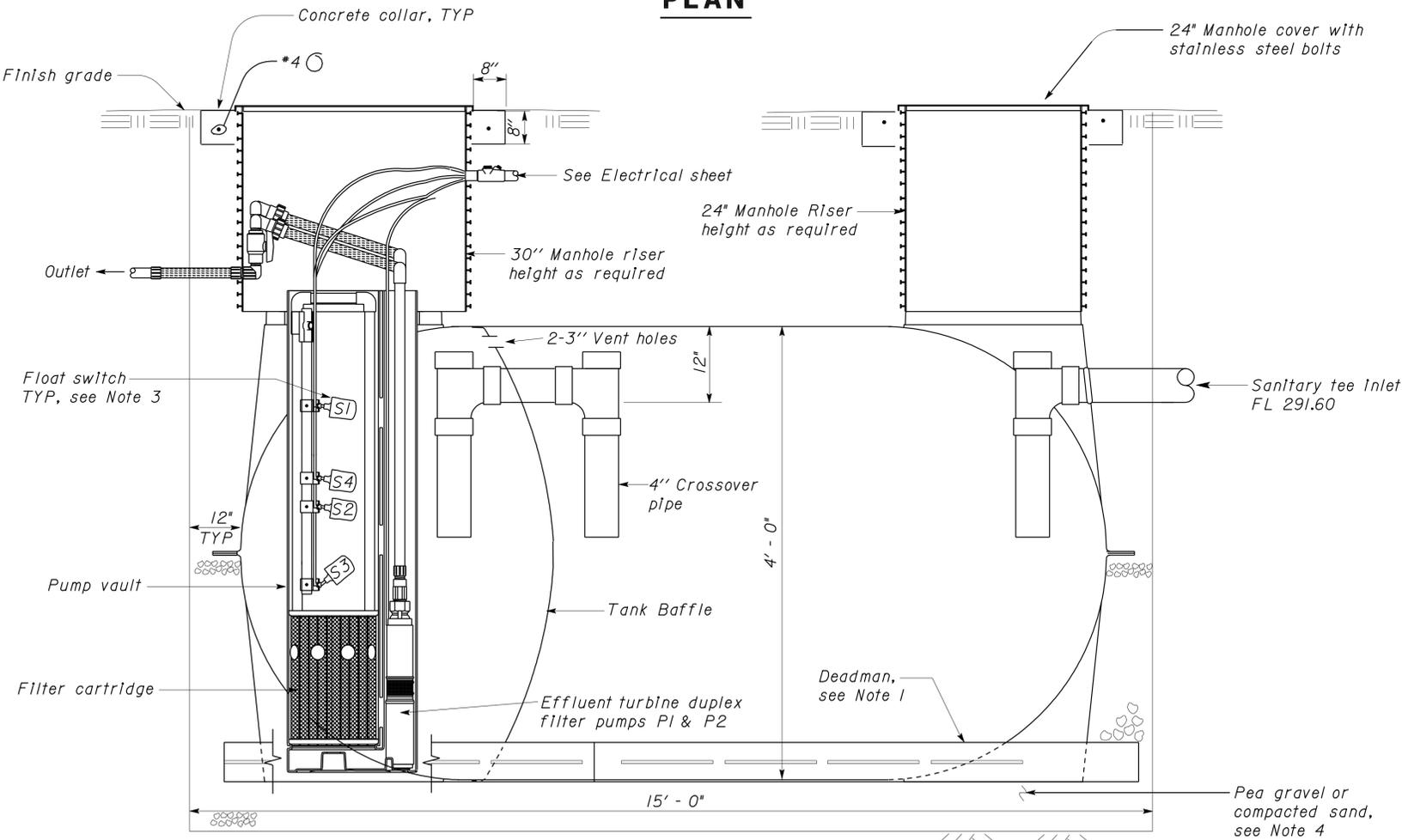
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

Reviewed by: *JOHN E WOODS*
Approval date: 09-08-09

CSFM File No. 01-13-11-0021



PLAN



SECTION

1 URINAL SEPTIC TANK - 1500 GALLON
No Scale

EQUIPMENT SCHEDULE					
EQUIPMENT	HP	VOLTS	PHASE	PUMPING RATE (GPM)	TOTAL DYNAMIC HEAD (ft)
EFFLUENT TURBINE DUPLEX FILTER PUMPS EUI & EU2	1/2	230	1	34	25

- Notes:*
- Deadman dimensions may vary by manufacturer. Install deadman per septic tank manufacturer's recommendations. Width and height of deadman per manufacturer's recommendation.
 - Tank baffles shall be installed at locations to divide tank volume into 1000 gallons for the first compartment, 500 gallons for the second compartment. Lengths may vary by manufacturer.
 - Float switch elevations:
S1 to be 17" below inside top of tank.
S2 to be 9" above top of filter.
S3 to be 3.5" above top of filter.
S4 to be 27" above top of filter.
 - Bedding thickness and depth per manufacturer's recommendation.
- (Pump piping and electrical lines are skewed in the section view for clarity.)

DESIGN BY <i>Manjunath Akkipeddi</i> CHECKED <i>Jerry Marcotte</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 58R0003R	SUNBEAM SAFETY ROADSIDE REST AREA SEWER TREATMENT SYSTEM	SHEET	
			POST MILE 31.2		EA 261511	SS1-3
			EASTBOUND		URINAL SEPTIC TANK	OF

DOES SD Imperial Rev. 9/02	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 11340 EA 261511	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
	0 1 2 3			02-05-07 06-15-07 08-14-07 11-16-07 01-04-08 03-27-08 07-03-08 08-28-08 10-28-09		

11-FEB-2010 05:32
ss1_03.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	43	73

<i>Jerrone R. Marcotte</i>		10-28-09
REGISTERED CIVIL ENGINEER	DATE	

2-8-10
PLANS APPROVAL DATE

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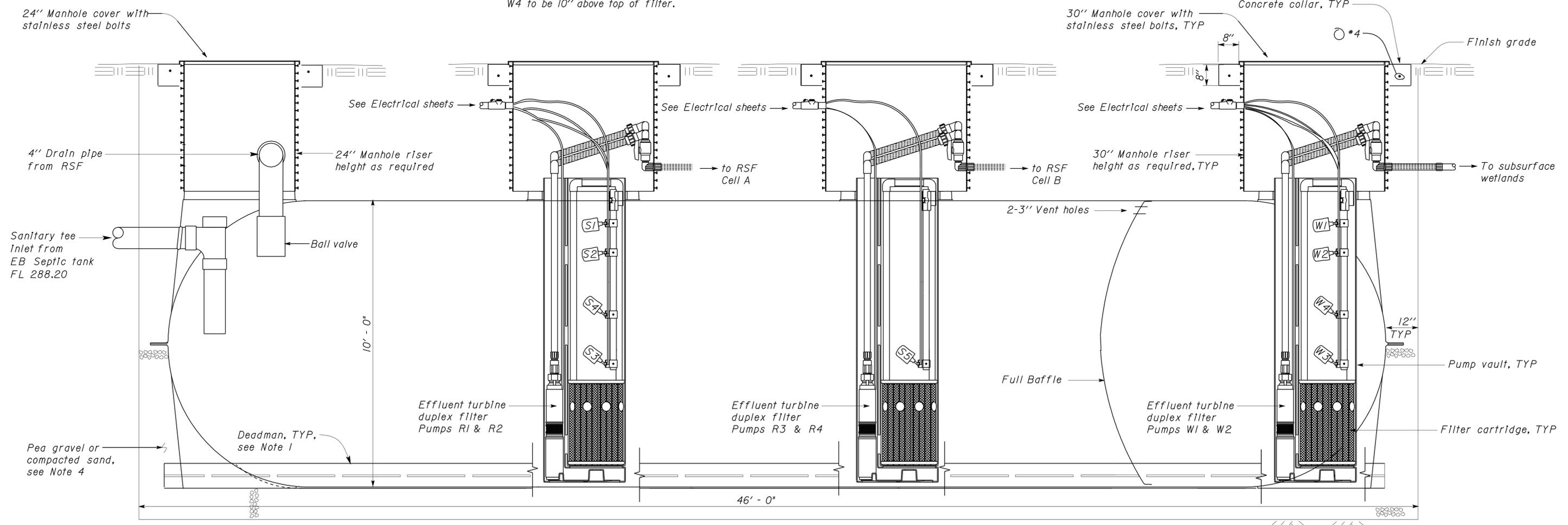
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Reviewed by: *JOHN E WOODS*
Approval date: 09-08-09

CSEF File No. 01-13-11-0021

EQUIPMENT	HP	VOLTS	PHASE	PUMPING RATE (GPM)	TOTAL DYNAMIC HEAD (ft)
EFFLUENT TURBINE DUPLEX FILTER PUMPS R1 & R2	3/4	230	1	34	42
EFFLUENT TURBINE DUPLEX FILTER PUMPS R3 & R4	3/4	230	1	34	42
EFFLUENT TURBINE DUPLEX FILTER PUMPS W1 & W2	1/2	230	1	34	25

- Notes**
- Deadman dimensions may vary by manufacturer. Install deadman per septic tank manufacturer's recommendations. Width and height of deadman per manufacturer's recommendation.
 - Tank baffles shall be installed at locations to divide tank volume into 12000 gallons for the first compartment and 3000 gallons for the second compartment. Lengths may vary by manufacturer.
 - Float switch elevations:
S1 to be 5" below inside top of tank.
S2 to be 14" below inside top of tank.
S3 to be 3.5" above top of filter.
S4 to be 10" above top of filter.
S5 to be 3.5" above top of filter.
W1 to be 5" below inside top of tank.
W2 to be 14" below inside top of tank.
W3 to be 3.5" above top of filter.
W4 to be 10" above top of filter.
 - Bedding thickness and depth per manufacturer's recommendation.
 - Ball float valve shall be set 9 feet from the bottom inside tank in the seated position.
(Pump piping and electrical lines are skewed in the section view for clarity.)



SECTION

1 RECIRCULATION TANK - 15000 GALLON

No Scale

DESIGN	BY <i>Manjunath Akkapeddi</i>	CHECKED <i>Jerry Marcotte</i>
DETAILS	BY <i>Manjunath Akkapeddi</i>	CHECKED <i>Jerry Marcotte</i>
QUANTITIES	BY <i>Manjunath Akkapeddi</i>	CHECKED <i>Jerry Marcotte</i>

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO.	58R0003R	SUNBEAM SAFETY ROADSIDE REST AREA SEWER TREATMENT SYSTEM	EASTBOUND	RECIRCULATION TANK
POST MILE	31.2			

SHEET **SS1-4** OF

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	44	73

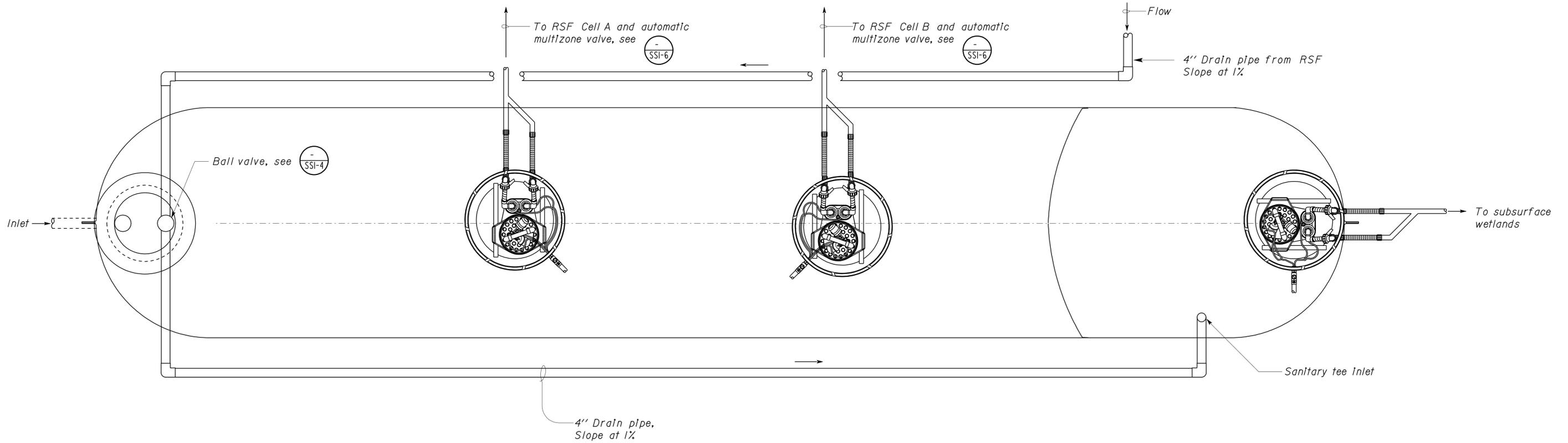
Jerome R. Marcotte 10-28-09
 REGISTERED CIVIL ENGINEER DATE

2-8-10
 PLANS APPROVAL DATE

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 Approval date: 09-08-09
 CSFM File No. 01-13-11-0021



1 RECIRCULATION TANK - PLAN
 No Scale

Note:
 1. See Electrical sheets for conduit location and connection.

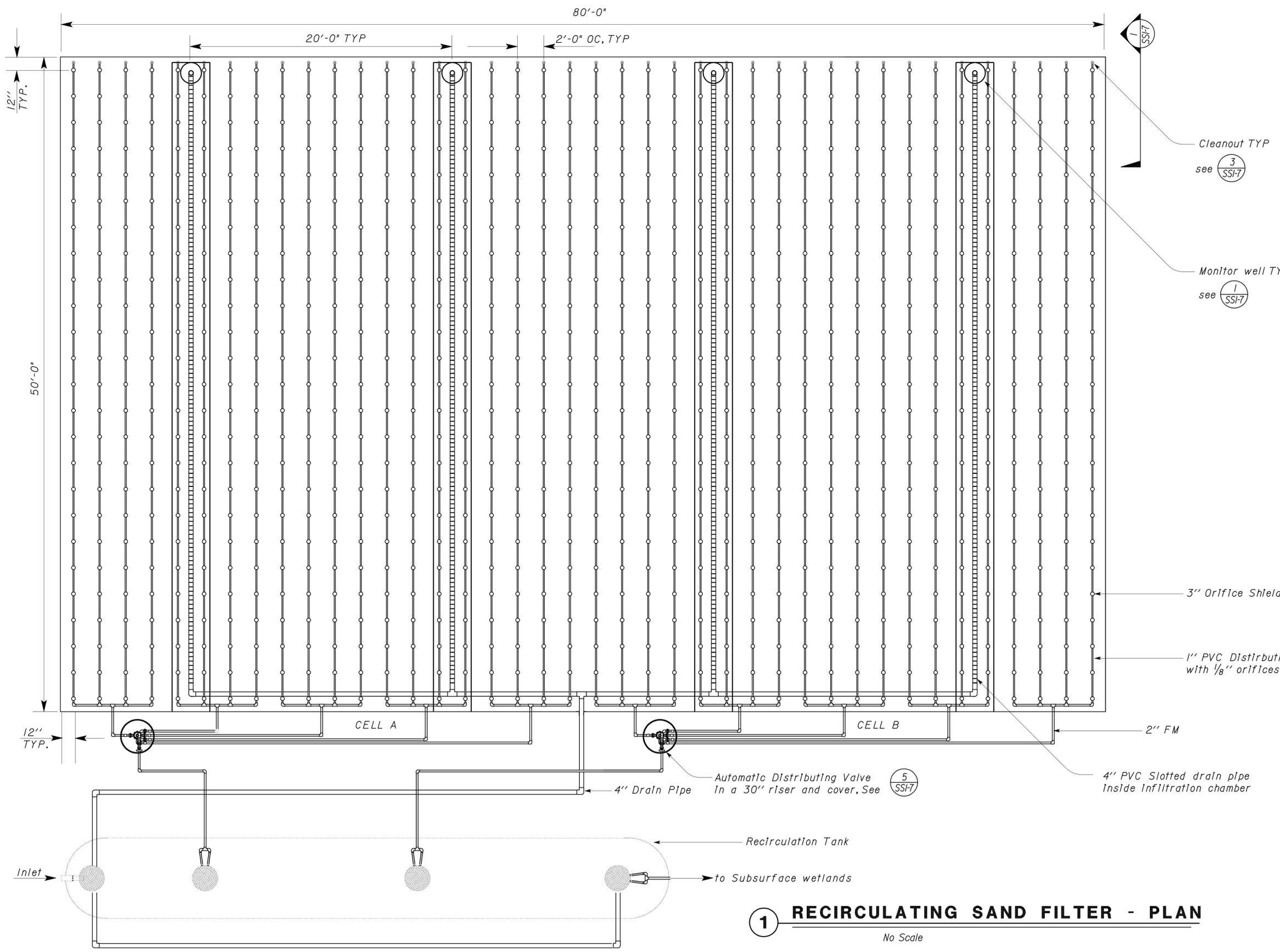
DESIGN BY <i>Manjunath Akkapeddi</i> CHECKED <i>Jerry Marcotte</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 58R0003R	SUNBEAM SAFETY ROADSIDE REST AREA SEWER TREATMENT SYSTEM	SHEET 581-5
			POST MILE 31.2		OF 581-5
			EASTBOUND		RECIRCULATION TANK PLAN
DETAILS BY <i>Manjunath Akkapeddi</i> CHECKED <i>Jerry Marcotte</i>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	CU 11340 EA 261511	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
QUANTITIES BY <i>Manjunath Akkapeddi</i> CHECKED <i>Jerry Marcotte</i>				02-05-07 06-15-07 08-14-07 11-16-07 01-04-08 03-27-08 07-03-08 08-28-08 10-28-09	

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	45	73

2-8-10
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JOHN E. WOODS
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Cleanout TYP
see (3) SSI-7

Monitor well TYP
see (1) SSI-7

3" Orifice Shield, see (4) SSI-7

1" PVC Distribution pipe at 2' O.C. with 1/8" orifices at 2' O.C.

2" FM

4" Drain Pipe
Automatic Distributing Valve in a 30" riser and cover, See (5) SSI-7

4" PVC Slotted drain pipe inside Infiltration chamber

Recirculation Tank

to Subsurface wetlands

1 RECIRCULATING SAND FILTER - PLAN

No Scale

DESIGN	BY Manjunath Akkipeddi	CHECKED Jerry Marcotte
DETAILS	BY Manjunath Akkipeddi	CHECKED Jerry Marcotte
QUANTITIES	BY Manjunath Akkipeddi	CHECKED Jerry Marcotte

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF ENGINEERING SERVICES
 ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO.	58R0003R	SUNBEAM SAFETY ROADSIDE REST AREA SEWER TREATMENT SYSTEM
POST MILE	31.2	
EASTBOUND		RECIRCULATING SAND FILTER

SHEET 11 OF 73
SS1-6

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	46	73

<i>Jerome R. Marcotte</i>		10-28-09
REGISTERED CIVIL ENGINEER	DATE	

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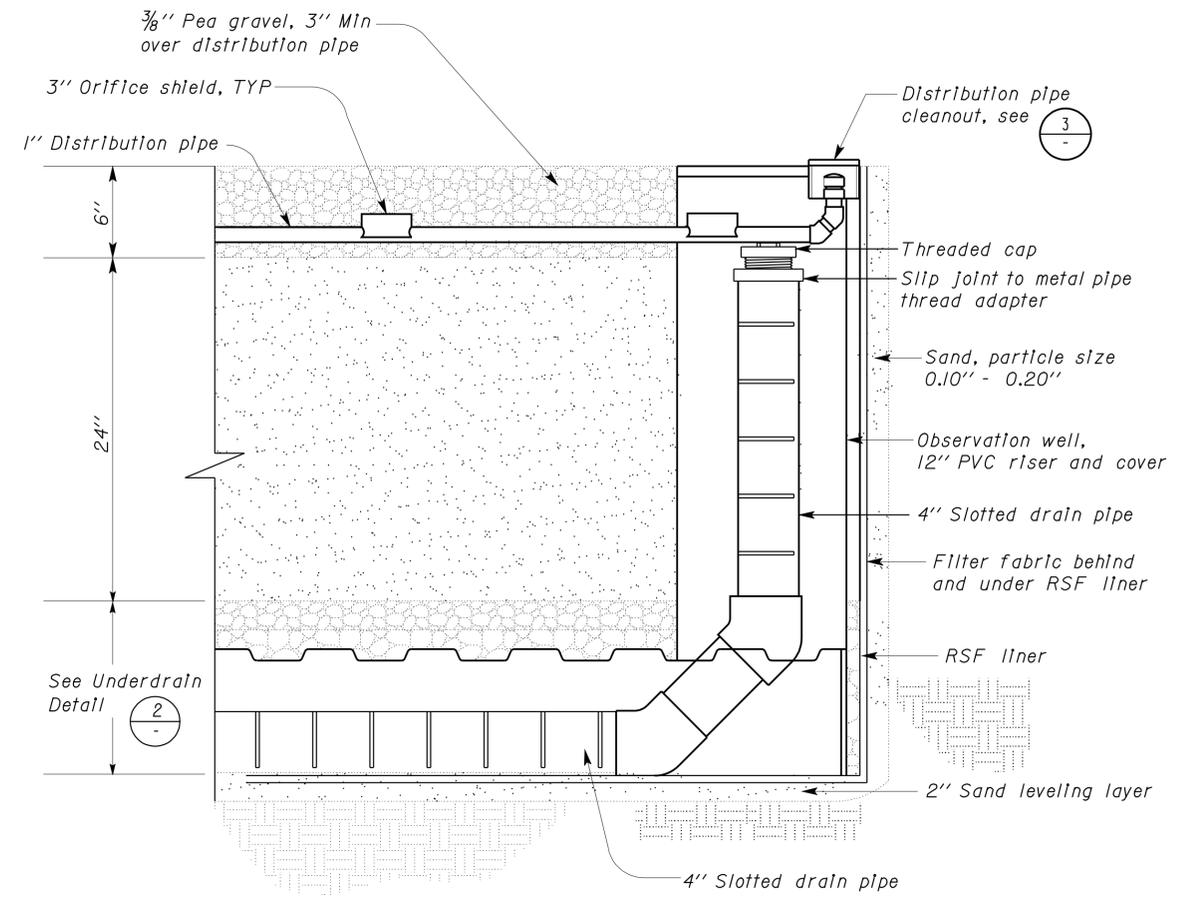


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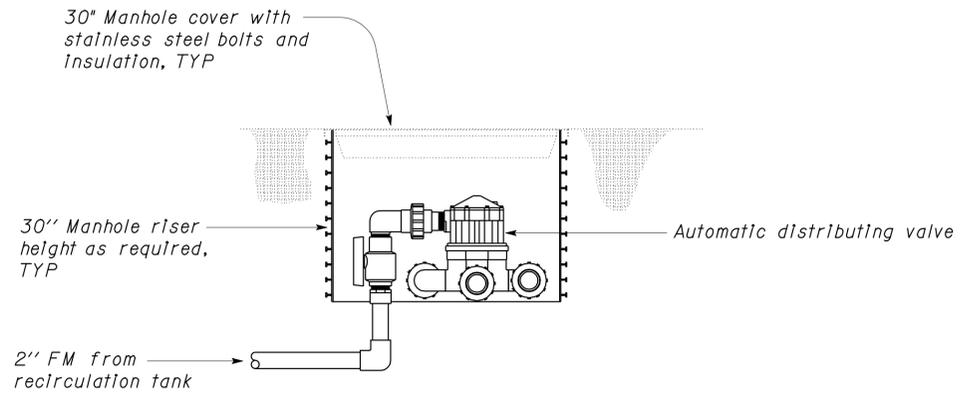
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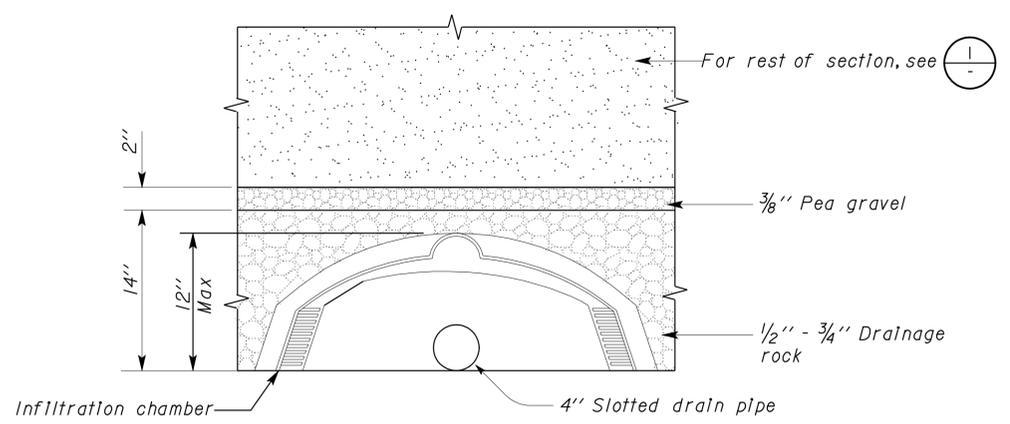
CSFM File No. 01-13-11-0021



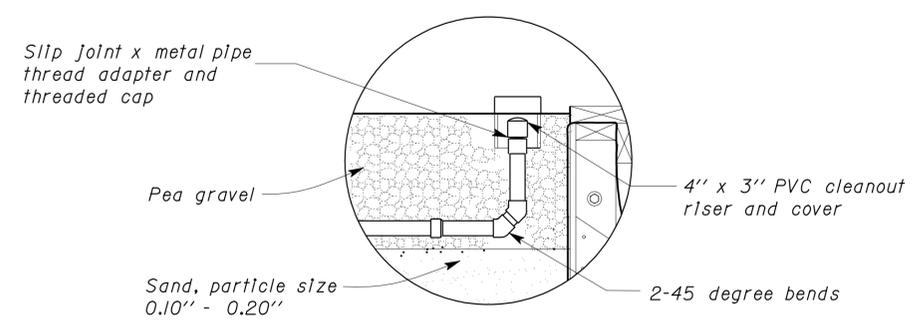
1 RECIRCULATING SAND FILTER - SECTION
No Scale



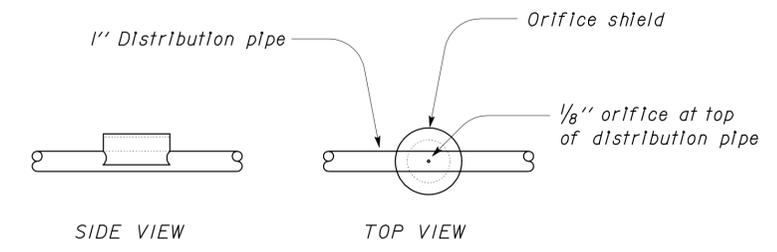
5 AUTOMATIC DISTRIBUTING VALVE
No Scale



2 UNDER DRAIN DETAIL
No Scale



3 CLEANOUT DETAIL
No Scale



4 ORIFICE SHIELD
No Scale

DESIGN BY <i>Manjunath Akkapeddi</i> CHECKED <i>Jerry Marcotte</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	SUNBEAM SAFETY ROADSIDE REST AREA SEWER TREATMENT SYSTEM	SHEET
			58R0003R		EA 261511
DETAILS BY <i>M Akkapeddi/Monson</i> CHECKED <i>Jerry Marcotte</i>			POST MILE	EASTBOUND	REVISION DATES (PRELIMINARY STAGE ONLY)
QUANTITIES BY <i>Manjunath Akkapeddi</i> CHECKED <i>Jerry Marcotte</i>			31.2		02-05-07 06-15-07 08-14-07 11-16-07 01-04-08 03-27-08 07-03-08 08-28-08 10-28-09
DOES SD Imperial Rev. 9/02	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 11340 EA 261511	DISREGARD PRINTS BEARING EARLIER REVISION DATES		SHEET OF
	0 1 2 3				11-FEB-2010 05:33

Notes:

1. Chain In back not shown for clarity. Eye bolts and chains to be stainless steel. Non traffic loading grate to be provided by precast box manufacturer.
2. Chain. Attach to eye In wall and to pipe with "S" hooks. Pipe to rotate 90 supported by chain.
3. Slip joint (two). Glue upstream end only so outlet may rotate.

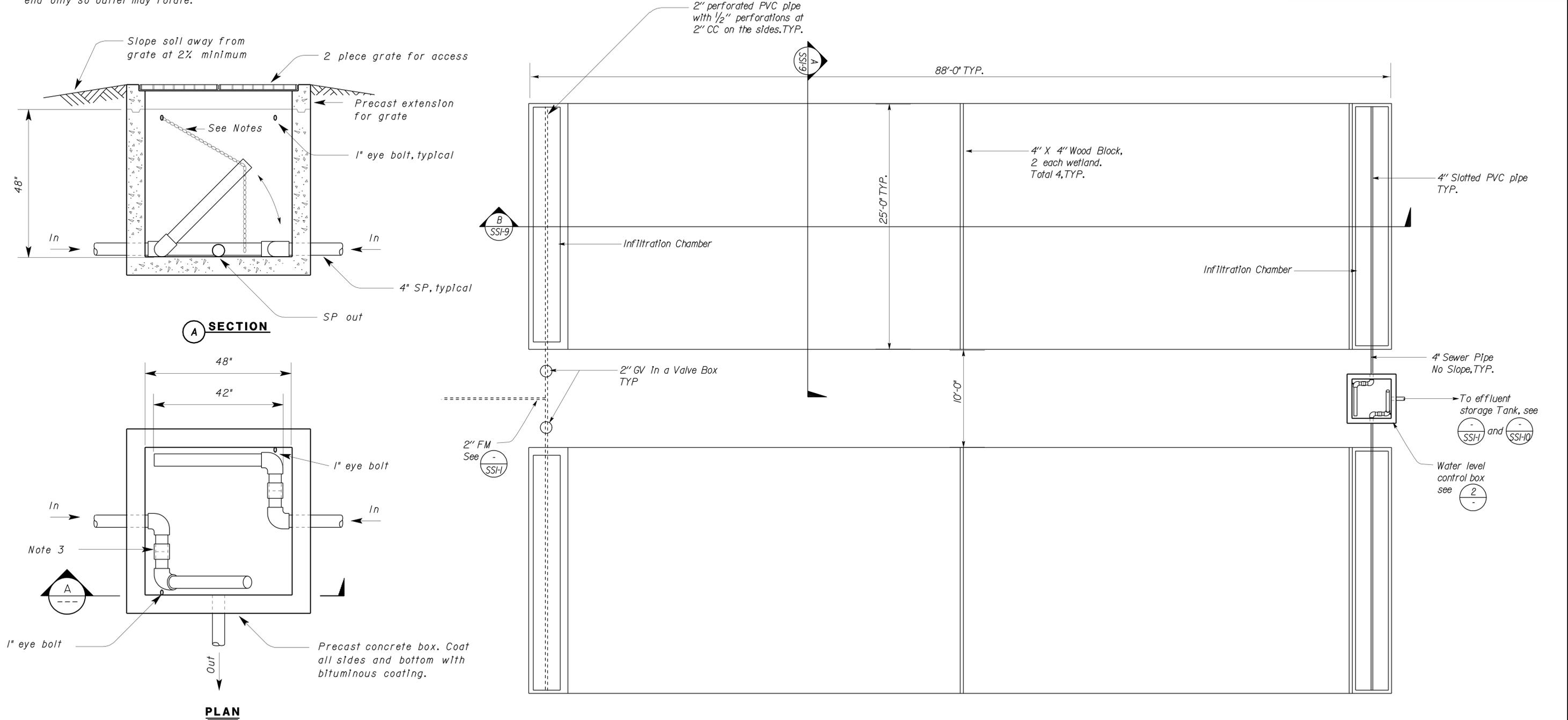
CALIFORNIA STATE FIRE MARSHAL APPROVED
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by: *John E Woods*
 Approval date: 09-08-09
 CSFM File No. 01-13-11-0021

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	47	73

<i>Jerome R. Marcotte</i> REGISTERED CIVIL ENGINEER	10-28-09 DATE
--	------------------

2-8-10
PLANS APPROVAL DATE

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2 WATER LEVEL CONTROL BOX
NO SCALE

1 SUBSURFACE WETLANDS
1" = 5'

Wetlands note:
See Landscape Architect plans for plantings detail for the subsurface wetlands

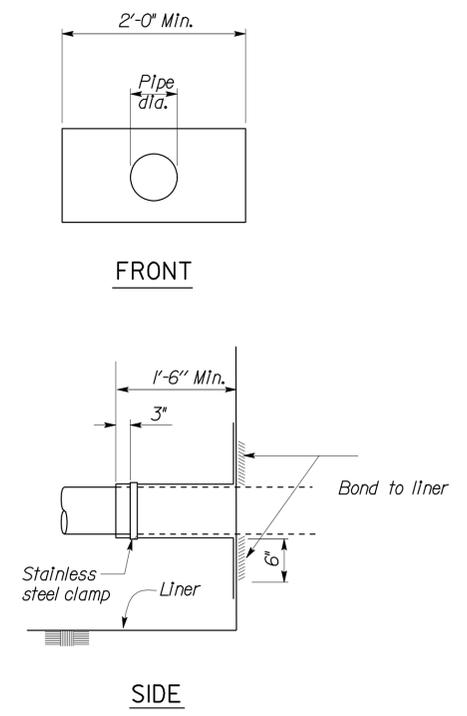
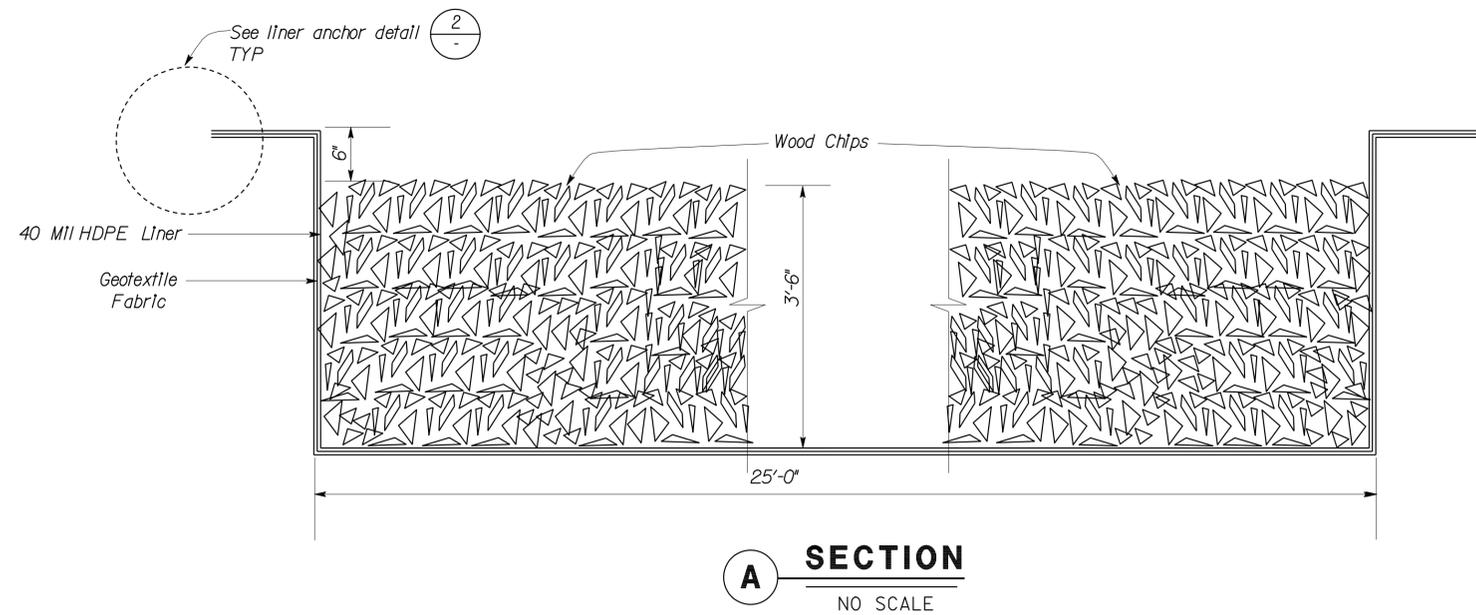
DESIGN	BY	Manjunath Akkipeddi	CHECKED	Jerry Marcotte	BRIDGE NO. 58R0003R	POST MILE 31.2	EASTBOUND	SUBSURFACE WETLANDS	SHEET OF SS1-8	
	DETAILS	BY	Manjunath Akkipeddi	CHECKED						Jerry Marcotte
	QUANTITIES	BY	Manjunath Akkipeddi	CHECKED						Jerry Marcotte
STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION					DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN		SUNBEAM SAFETY ROADSIDE REST AREA SEWER TREATMENT SYSTEM			
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					CU 11340 EA 261511		REVISION DATES (PRELIMINARY STAGE ONLY)			
DOES SD Imperial Rev. 9/02					0 1 2 3		DISREGARD PRINTS BEARING EARLIER REVISION DATES			

11-FEB-2010 05:33
ss1_08.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	48	73

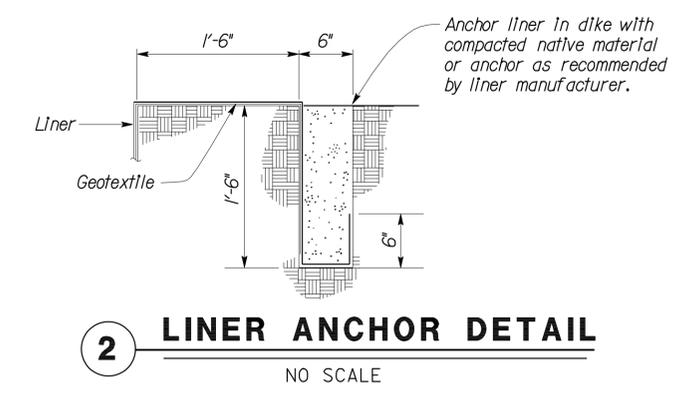
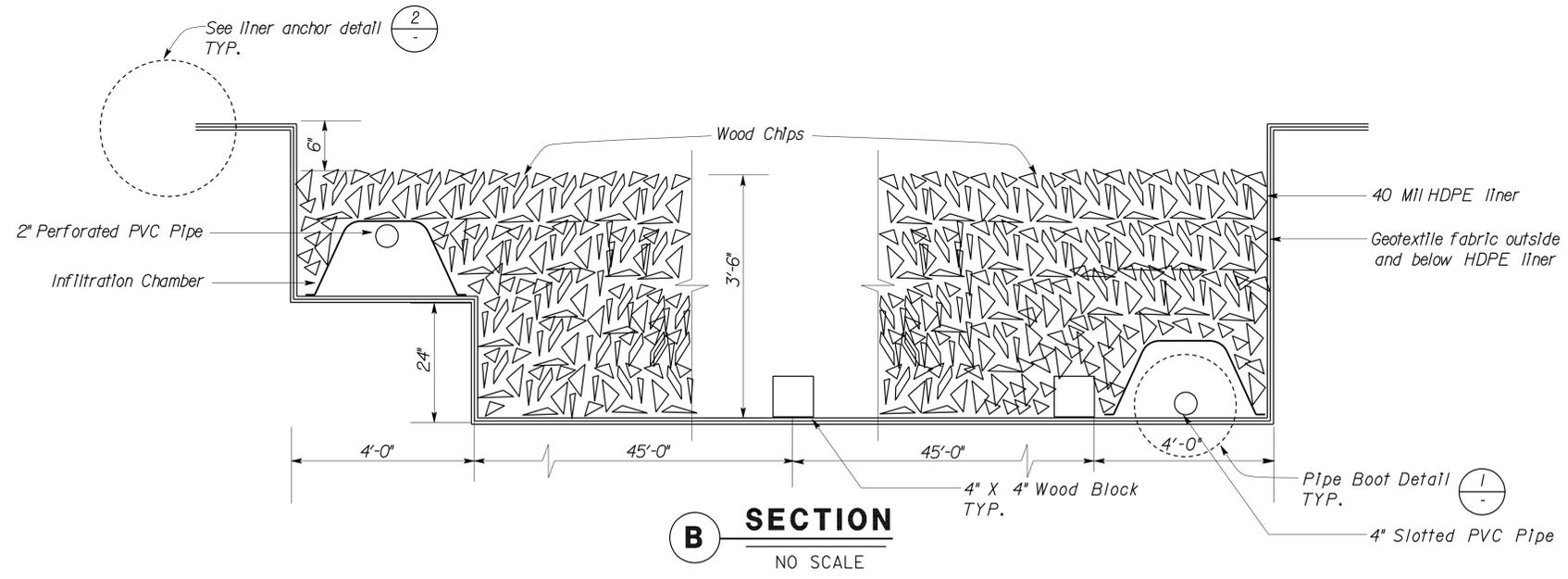
<i>Jerome R. Marcotte</i> REGISTERED CIVIL ENGINEER	10-28-09 DATE	
2-8-10 PLANS APPROVAL DATE		

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1 PIPE BOOT DETAIL
NO SCALE

Notes:
1. Boot to be fabricated from same material as pond liner.



DOES SD Imperial Rev. 9/02	DESIGN	BY <i>Manjunath Akkapeddi</i>	CHECKED <i>Jerry Marcotte</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	SUNBEAM SAFETY ROADSIDE REST AREA	SHEET OF		
	DETAILS	BY <i>Manjunath Akkapeddi</i>	CHECKED <i>Jerry Marcotte</i>			58R0003R	SEWER TREATMENT SYSTEM		EASTBOUND SUBSURFACE WETLANDS DETAILS	SS1-9
	QUANTITIES	BY <i>Manjunath Akkapeddi</i>	CHECKED <i>Jerry Marcotte</i>			POST MILE 31.2	REVISION DATES (PRELIMINARY STAGE ONLY)			
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3			CU 11340 EA 261511	DISREGARD PRINTS BEARING EARLIER REVISION DATES	02-05-07 06-15-07 08-14-07 11-16-07 01-04-08 03-27-08 07-03-08 08-28-08 10-28-09		11-FEB-2010 05:33		

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	49	73

Jerome R. Marcotte
 REGISTERED CIVIL ENGINEER
 DATE 10-28-09

J. Marcotte
 No. C 36844
 Exp. 06-30-10
 CIVIL
 STATE OF CALIFORNIA

2-8-10
 PLANS APPROVAL DATE

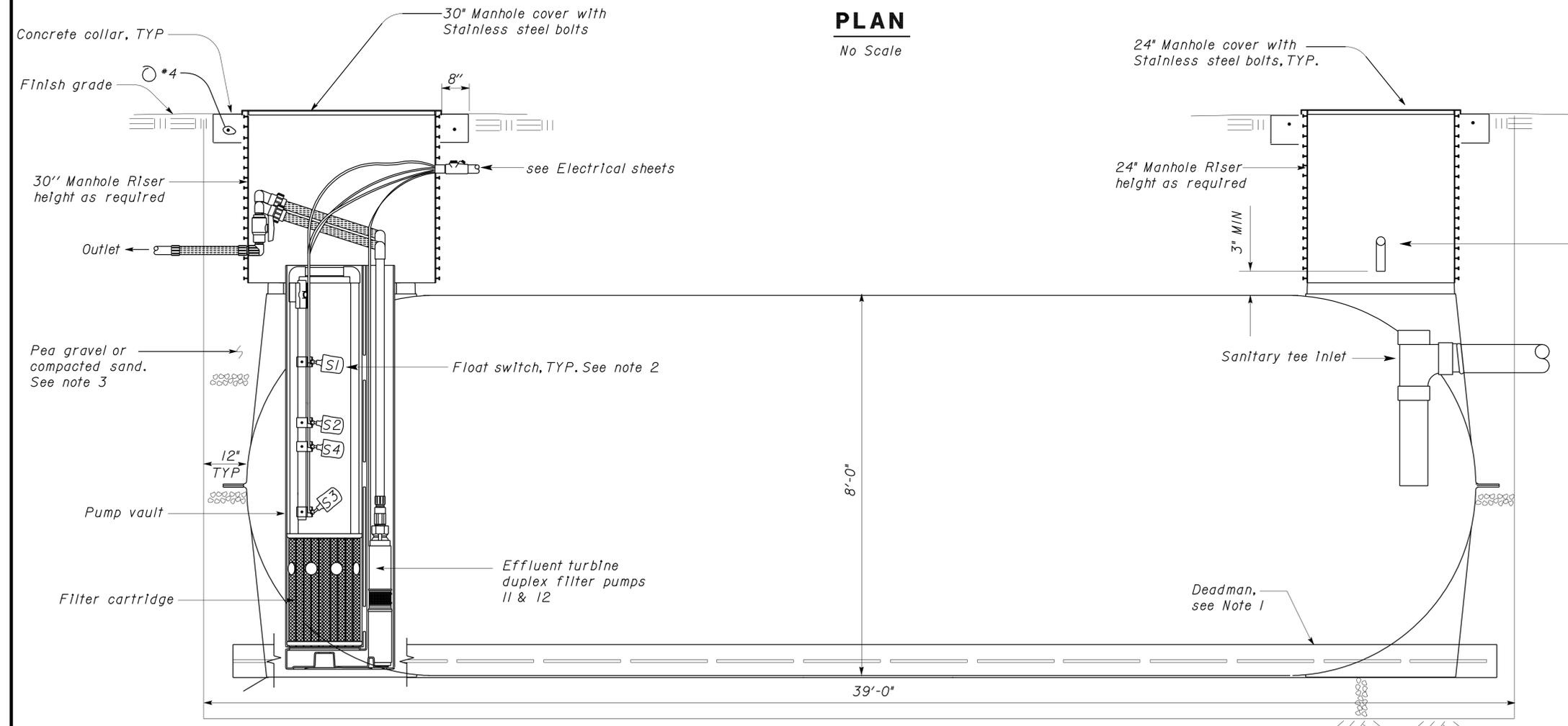
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Reviewed by: *John E Woods*
JOHN E WOODS
 Approval date: 09-08-09
 CSFM File No. 01-13-11-0021



PLAN
No Scale



SECTION
No Scale

1 EFFLUENT STORAGE TANK - 12 000 GALLON
No Scale

EQUIPMENT SCHEDULE					
EQUIPMENT	HP	VOLTS	PHASE	PUMPING RATE (GPM)	TOTAL DYNAMIC HEAD (ft)
EFFLUENT TURBINE DUPLEX FILTER PUMPS 11 & 12	1/2	230	1	34	42

- Notes:**
- Deadman dimensions may vary by manufacturer. Install deadman per septic tank manufacturer's recommendations. Width and height of deadman per manufacturer's recommendation.
 - Float switch elevations:
 - S1 to be 10" below inside top of tank.
 - S2 to be 15" below inside top of tank.
 - S3 to be 3.5" above top of filter.
 - S4 to be 20" below inside top of tank.
 - Bedding thickness and depth per manufacturer's recommendation.
- (Pump piping, electrical lines and sanitary tee Inlet are skewed in the section view for clarity.)

DESIGN BY <i>Manjunath Akkapeddi</i> CHECKED <i>Jerry Marcotte</i> DETAILS BY <i>Manjunath Akkapeddi</i> CHECKED <i>Jerry Marcotte</i> QUANTITIES BY <i>Manjunath Akkapeddi</i> CHECKED <i>Jerry Marcotte</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 58R0003R POST MILE 31.2	SUNBEAM SAFETY ROADSIDE REST AREA SEWER TREATMENT SYSTEM EASTBOUND EFFLUENT STORAGE TANK	SHEET SS1-10 OF
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		CU 11340 EA 261511	DISREGARD PRINTS BEARING EARLIER REVISION DATES →	REVISION DATES (PRELIMINARY STAGE ONLY) 02-05-07 06-15-07 08-14-07 11-16-07 01-24-08 03-27-08 07-08-08 10-28-08
	DOES SD Imperial Rev. 9/02		11-FEB-2010 05:33 ss1_10.dgn		

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	50	73

<i>Jerome R. Marcotte</i> REGISTERED CIVIL ENGINEER DATE 10-28-09	
2-8-10 PLANS APPROVAL DATE	

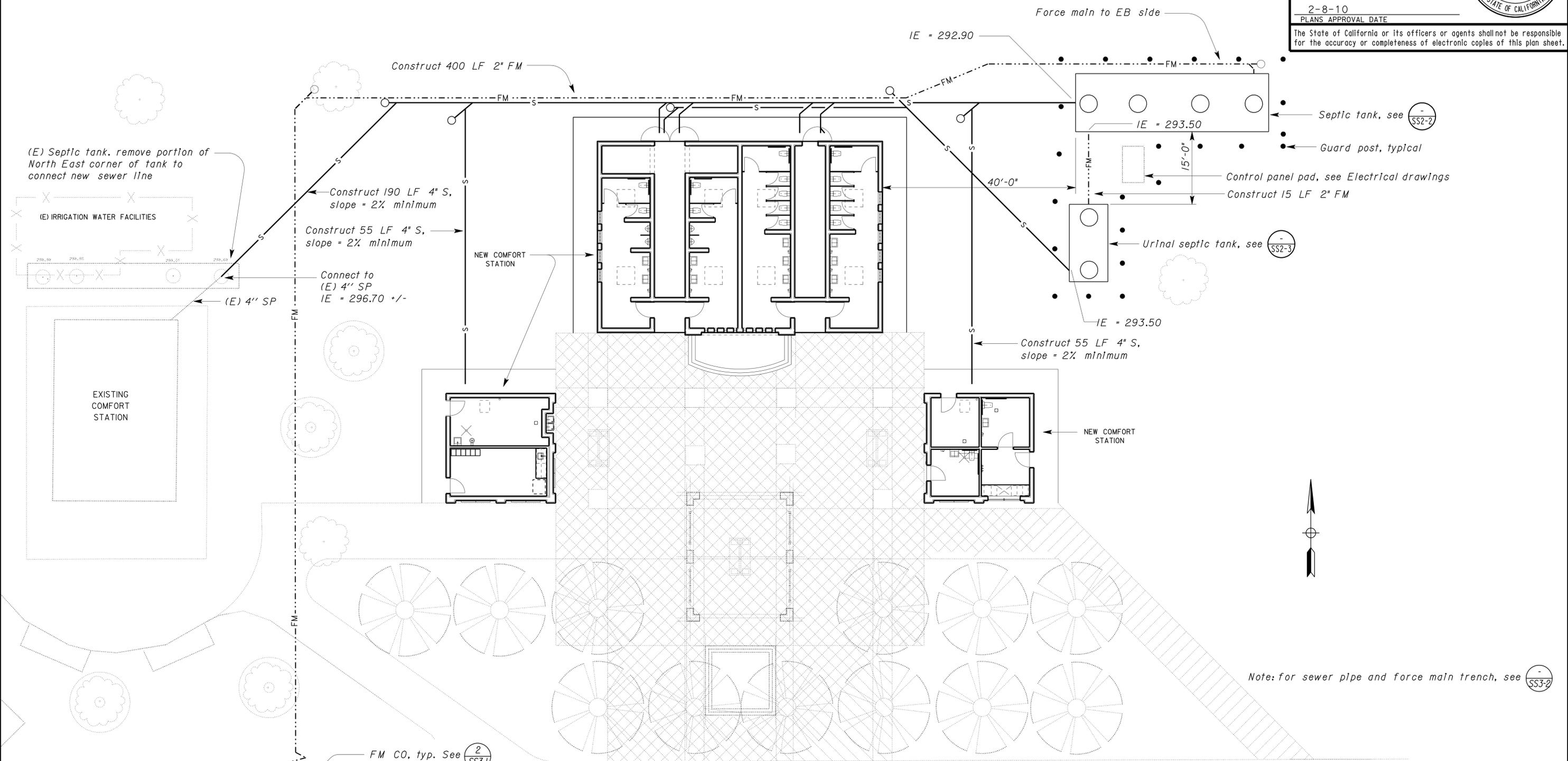
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CALIFORNIA STATE FIRE MARSHAL APPROVED

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Reviewed by: *JOHN E. WOODS*
 Approval date: 09-08-09

CSFM File No. 01-13-11-0021



WESTBOUND MODIFIED SITE PLAN

SCALE 1" = 10'-0"

DOES SD Imperial Rev. 9/02	DESIGN	BY R E Schmitz	CHECKED Jerry Marcotte	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	58R0003L	SUNBEAM SAFETY ROADSIDE REST AREA SEWER TREATMENT SYSTEM	SHEET	OF						
	DETAILS	BY R E Schmitz	CHECKED Jerry Marcotte			POST MILE	31.2		WESTBOUND	PARTIAL MODIFIED SITE PLAN	SS2-1					
	QUANTITIES	BY R E Schmitz	CHECKED Jerry Marcotte			CU 11340 EA 261511	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	10-28-09	06-15-07	08-14-07	11-16-07	01-04-08	03-27-08	07-03-08

11-FEB-2010 05:33

ss2_01.dgn

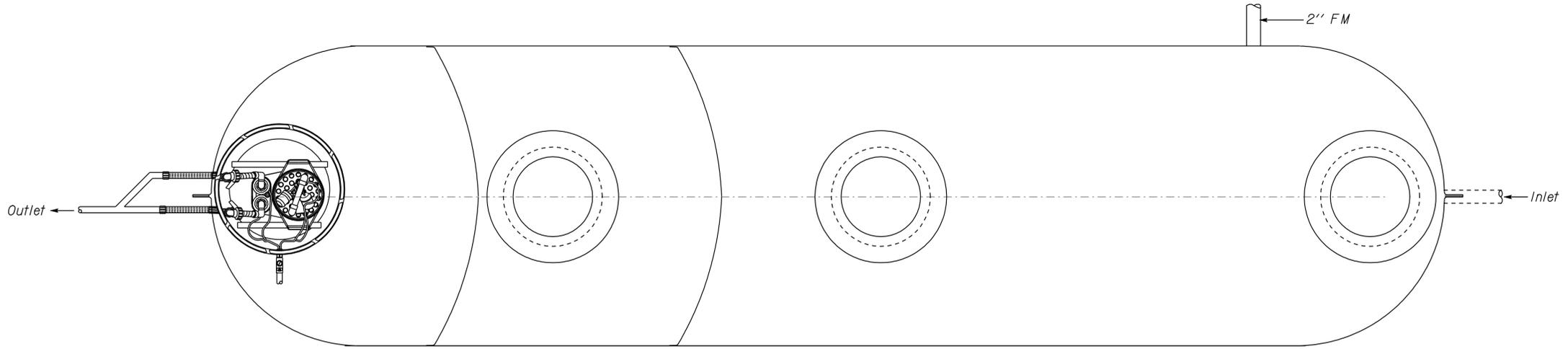
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	51	73

Jerome R. Marcotte
 REGISTERED CIVIL ENGINEER
 DATE 10-28-09

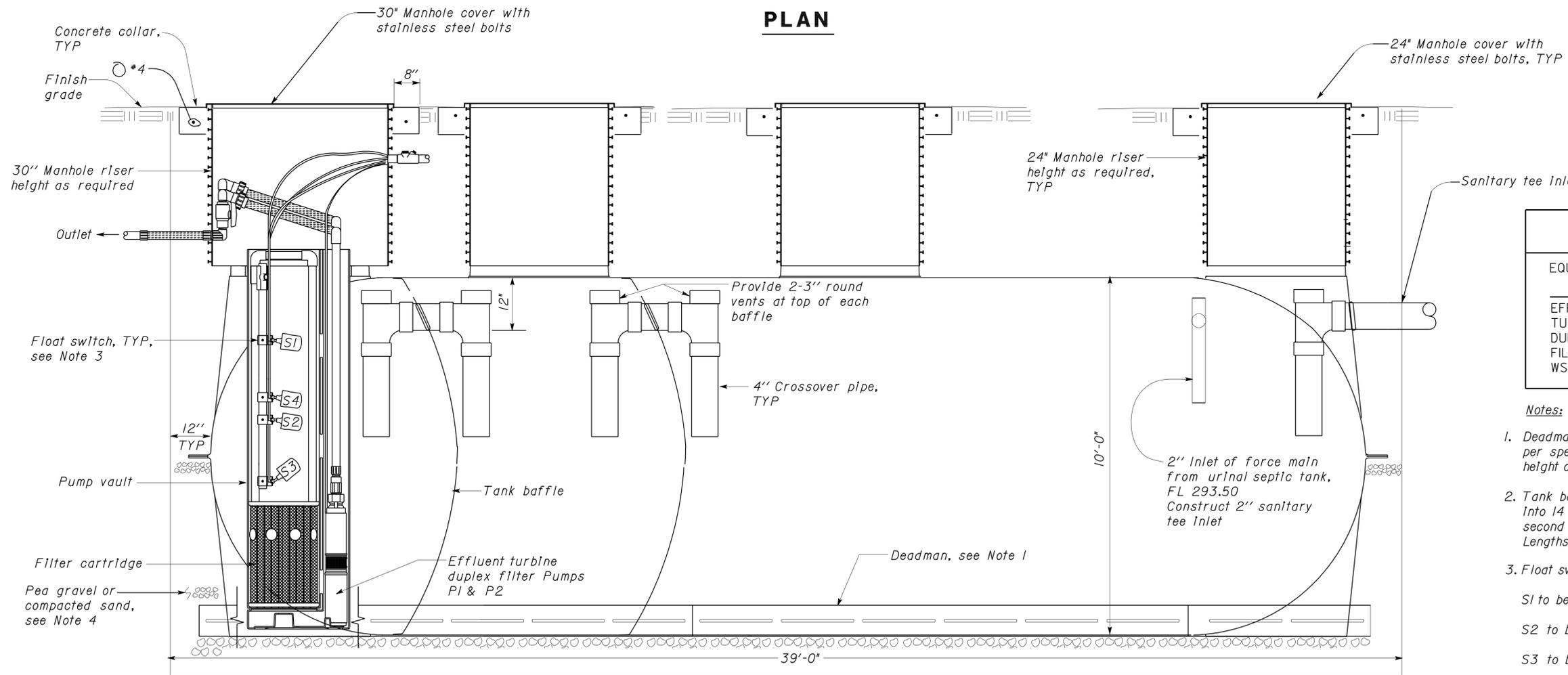
REGISTERED PROFESSIONAL ENGINEER
 J. Marcotte
 No. C 36844
 Exp. 06-30-10
 CIVIL
 STATE OF CALIFORNIA

2-8-10
 PLANS APPROVAL DATE

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PLAN



EQUIPMENT SCHEDULE

EQUIPMENT	HP	VOLTS	PHASE	PUMPING RATE (GPM)	TOTAL DYNAMIC HEAD (ft)
EFFLUENT TURBINE DUPLEX FILTER PUMPS WSI & WS2	3/4	230	1	34	42

- Notes:
- Deadman dimensions may vary by manufacturer. Install deadman per septic tank manufacturer's recommendations. Width and height of deadman per manufacturer's recommendation.
 - Tank baffles shall be installed at locations to divide tank volume into 14 000 gallons for the first compartment, 4000 gallons for the second compartment and 2000 gallons for the third compartment. Lengths may vary by manufacturer.
 - Float switch elevations:
 - S1 to be 17" below inside top of tank.
 - S2 to be 9" above top of filter.
 - S3 to be 3.5" above top of filter.
 - S4 to be 27" above top of filter.
 - Bedding thickness and depth per manufacturer's recommendation. (Pump piping and electrical lines are skewed in the section view for clarity).

DESIGN BY <i>ManJunath Akkipeddi</i>	CHECKED <i>Jerry Marcotte</i>	STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 58R0003L	SUNBEAM SAFETY ROADSIDE REST AREA SEWER TREATMENT SYSTEM	SHEET SS2-2
		DEPARTMENT OF TRANSPORTATION	ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	POST MILE 31.2		
		WESTBOUND	SEPTIC TANK			

DOES SD Imperial Rev. 9/02
 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3
 CU 11340 EA 261511
 DISREGARD PRINTS BEARING EARLIER REVISION DATES
 REVISION DATES (PRELIMINARY STAGE ONLY): 02-05-07, 06-15-07, 08-14-07, 11-16-07, 01-04-08, 03-27-08, 07-03-08, 08-28-08, 10-28-09
 SHEET OF

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	52	73

Jerome R. Marcotte 10-28-09
 REGISTERED CIVIL ENGINEER DATE

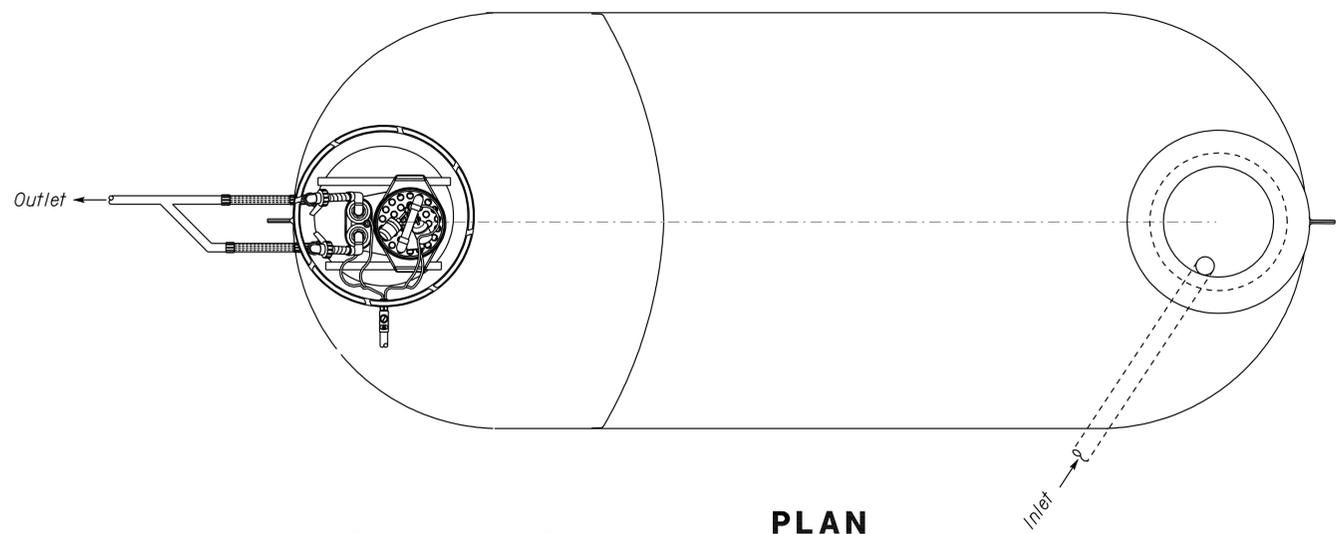
REGISTERED PROFESSIONAL ENGINEER
 J. Marcotte
 No. C 36844
 Exp. 06-30-10
 CIVIL
 STATE OF CALIFORNIA

2-8-10
 PLANS APPROVAL DATE

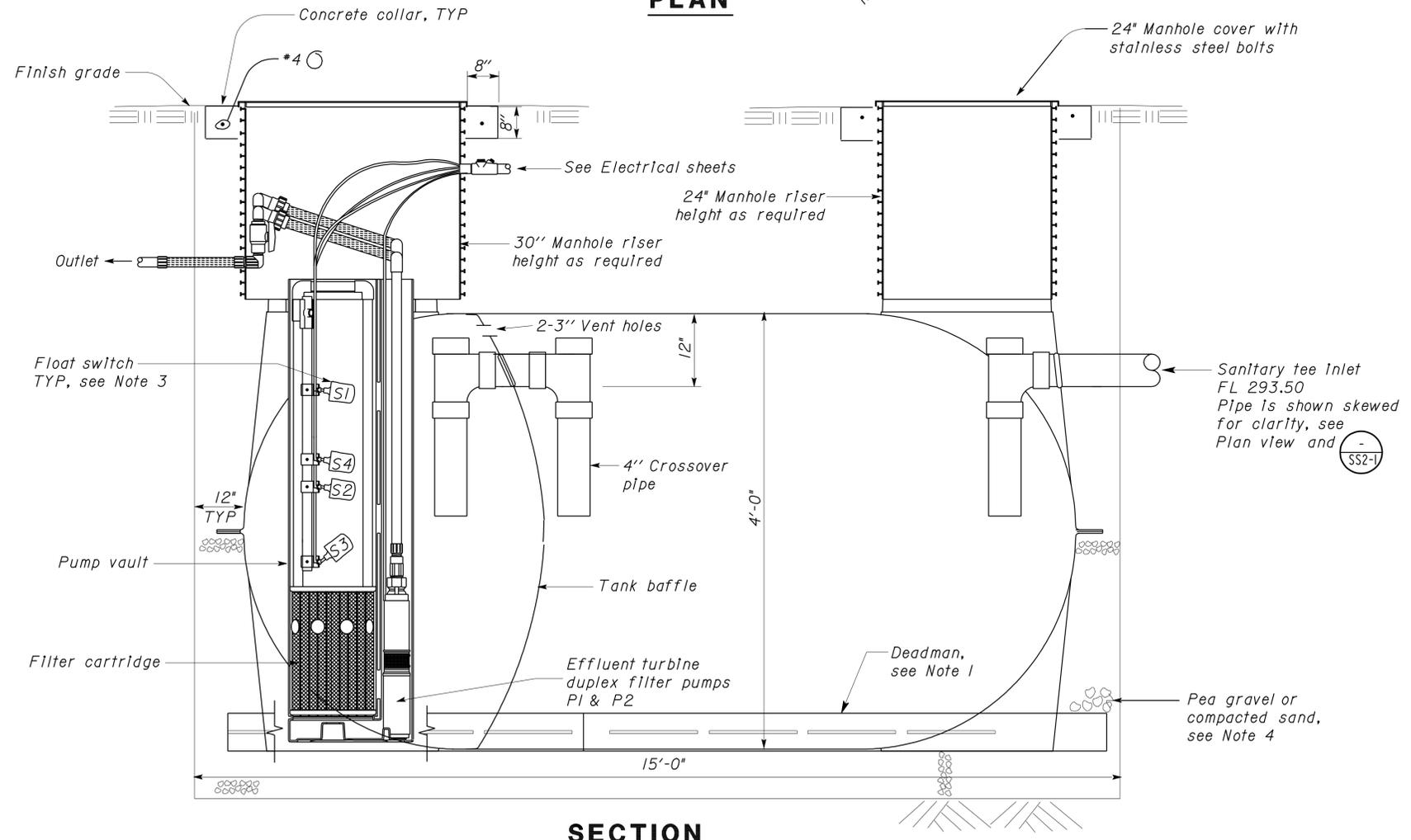
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Reviewed by: *John E Woods*
 Approval date: 09-08-09
 CSFM File No. 01-13-11-0021



PLAN



SECTION

1 SEPTIC TANK - 1500 GALLON
 No Scale

EQUIPMENT SCHEDULE					
EQUIPMENT	HP	VOLTS	PHASE	PUMPING RATE (GPM)	TOTAL DYNAMIC HEAD (ft)
EFFLUENT TURBINE DUPLEX FILTER PUMPS WU1 & WU2	1/2	230	1	34	25

- Notes:**
- Deadman dimensions may vary by manufacturer. Install deadman per septic tank manufacturer's recommendations. Width and height of deadman per manufacturer's recommendation.
 - Tank baffles shall be installed at locations to divide tank volume into 1000 gallons for the first compartment, 500 gallons for the second compartment. Lengths may vary by manufacturer.
 - Float switch elevations:
 S1 to be 17" below inside top of tank.
 S2 to be 9" above top of filter.
 S3 to be 3.5" above top of filter.
 S4 to be 27" above top of filter.
 - Bedding thickness and depth per manufacturer's recommendation. (Pump piping and electrical lines are skewed in the section view for clarity).

DESIGN BY <i>ManJunath Akkipeddi</i> CHECKED <i>Jerry Marcotte</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 58R0003L	SUNBEAM SAFETY ROADSIDE REST AREA SEWER TREATMENT SYSTEM	SHEET 52 OF 73	
			POST MILE 31.2		WESTBOUND	URINAL SEPTIC TANK
			REVISION DATES (PRELIMINARY STAGE ONLY)			
DETAILS BY <i>ManJunath Akkipeddi</i> CHECKED <i>Jerry Marcotte</i>	CU 11340 EA 261511	DISREGARD PRINTS BEARING EARLIER REVISION DATES	02-05-07 06-15-07 08-14-07 11-16-07 01-04-08 03-27-08 07-03-08 08-28-08 10-28-09	SHEET OF	11-FEB-2010 05:33	

DOES SD Imperial Rev. 9/02 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	53	73

<i>Terone R. Guinto</i> REGISTERED CIVIL ENGINEER DATE 10-28-09		REGISTERED PROFESSIONAL ENGINEER J. Marcotte No. C 36844 Exp. 06-30-10 CIVIL STATE OF CALIFORNIA
2-8-10 PLANS APPROVAL DATE		

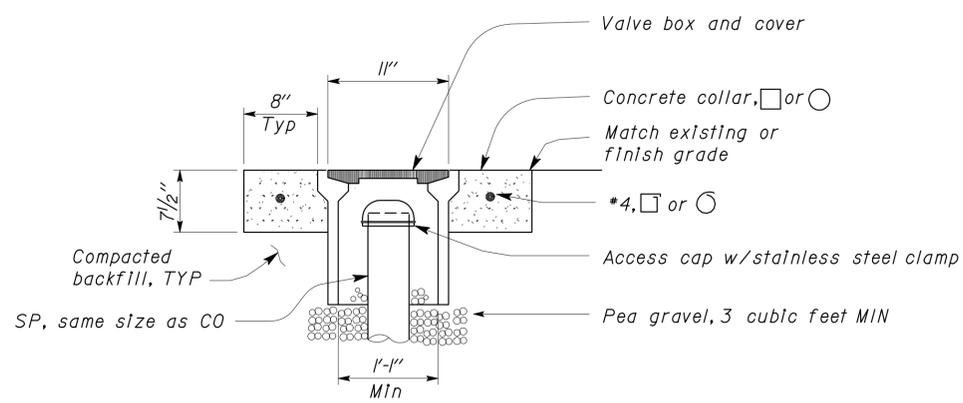
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CALIFORNIA STATE FIRE MARSHAL APPROVED

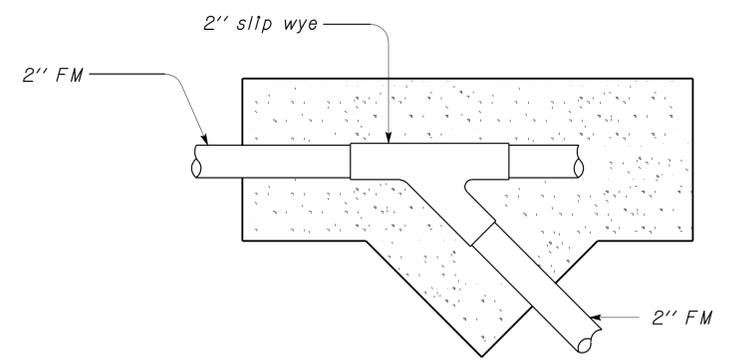
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Reviewed by: *JOHN E. WOODS*
 Approval date: 09-08-09

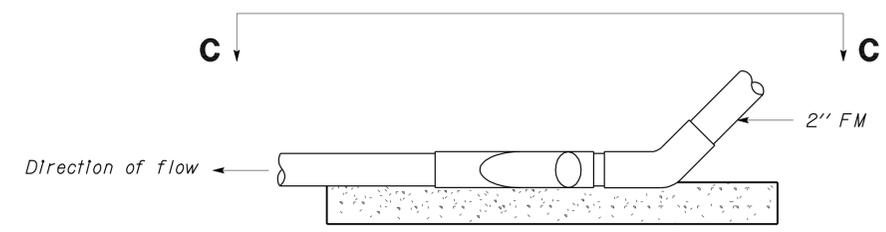
CSFM File No. 01-13-11-0021



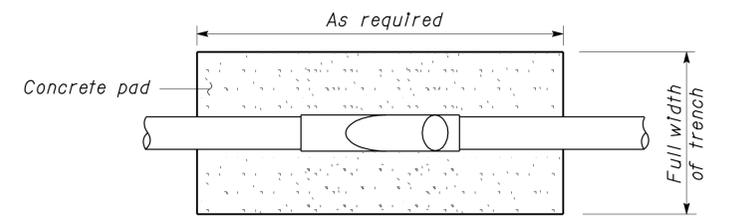
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NO SCALE



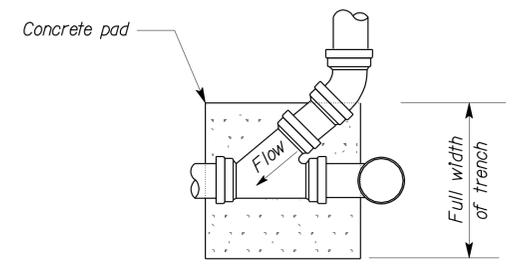
SECTION C-C



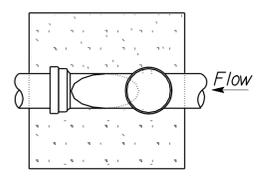
ELEVATION



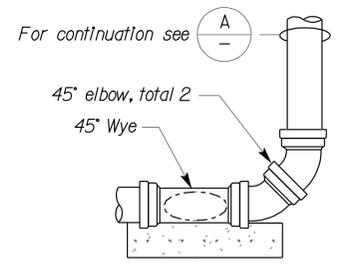
SECTION A-A



PLAN

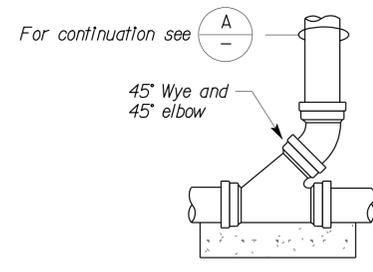


PLAN



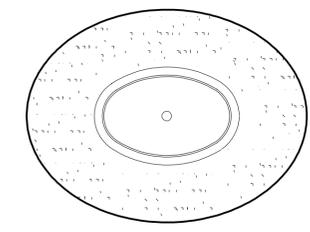
ELEVATION

CLEANOUT (AT BEND)

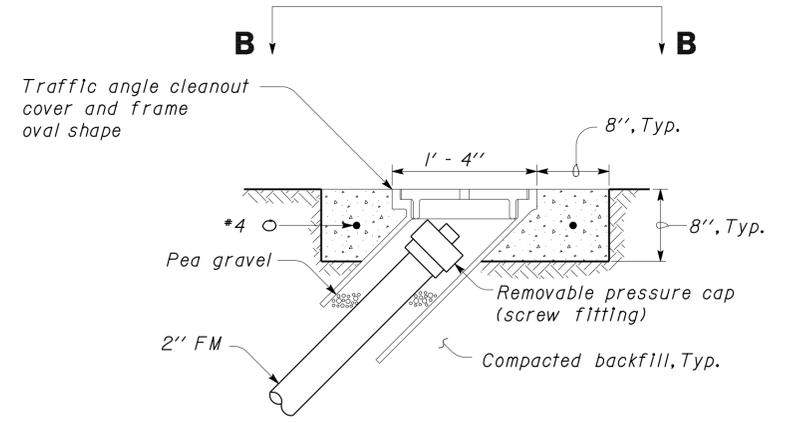


ELEVATION

CLEANOUT (STANDARD)



SECTION B-B



ELEVATION

2 FORCE MAIN CLEANOUT
NO SCALE

1 CLEANOUT TO GRADE
No Scale
Concrete pad shown typical for all cleanouts

NOTE
Concrete pad shown typical for all cleanouts.

DOES SD Imperial Rev. 9/02	DESIGN BY <i>Manjunath Akkipeddi</i>	CHECKED <i>Jerry Marcotte</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 58R0003R/L	SUNBEAM SAFETY ROADSIDE REST AREA SEWER TREATMENT SYSTEM	SHEET SS3-1
	DETAILS BY <i>Manjunath Akkipeddi</i>	CHECKED <i>Jerry Marcotte</i>		POST MILE 31.2	DETAILS I		OF
	QUANTITIES BY <i>Manjunath Akkipeddi</i>	CHECKED <i>Jerry Marcotte</i>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 11340 EA 261511	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET

11-FEB-2010 05:34
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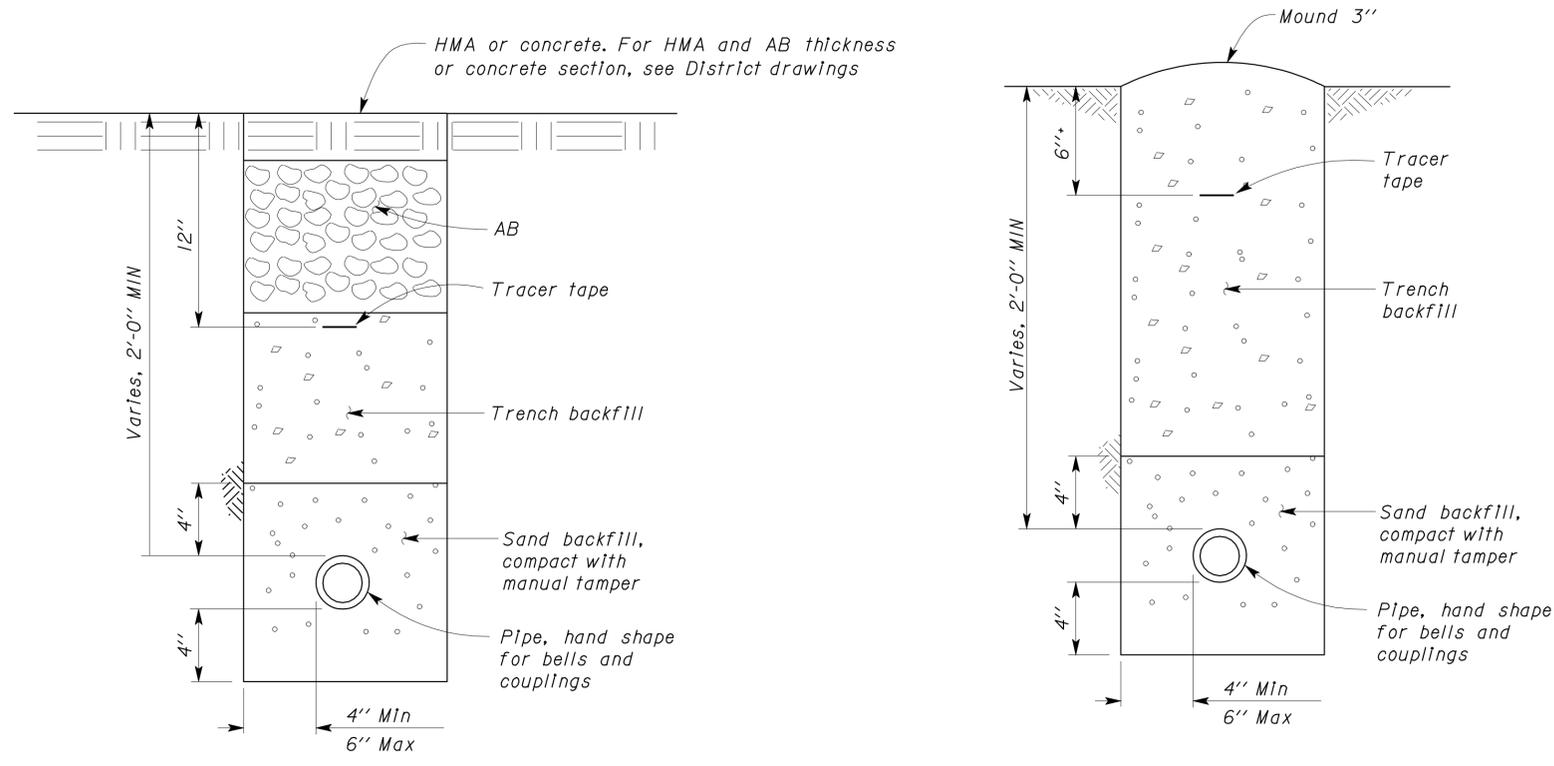
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	54	73

Jerome R. Marcotte 10-28-09
 REGISTERED CIVIL ENGINEER DATE
 2-8-10
 PLANS APPROVAL DATE



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 Approval date: 09-08-09
 CSFM File No. 01-13-11-0021



1 SEWER PIPE / FORCE MAIN
No Scale

DESIGN	BY	Manjunath Akkipeddi	CHECKED	Jerry Marcotte
DETAILS	BY	Manjunath Akkipeddi	CHECKED	Jerry Marcotte
QUANTITIES	BY	Manjunath Akkipeddi	CHECKED	Jerry Marcotte

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO.	58R0003R/L
POST MILE	31.2

SUNBEAM SAFETY ROADSIDE REST AREA
SEWER TREATMENT SYSTEM
 DETAILS 2

SHEET **SS3-2** OF

REVISION DATES (PRELIMINARY STAGE ONLY)	
02-05-07	06-15-07
08-14-07	11-16-07
01-04-08	03-27-08
07-03-08	08-28-08
10-28-09	

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	55	73

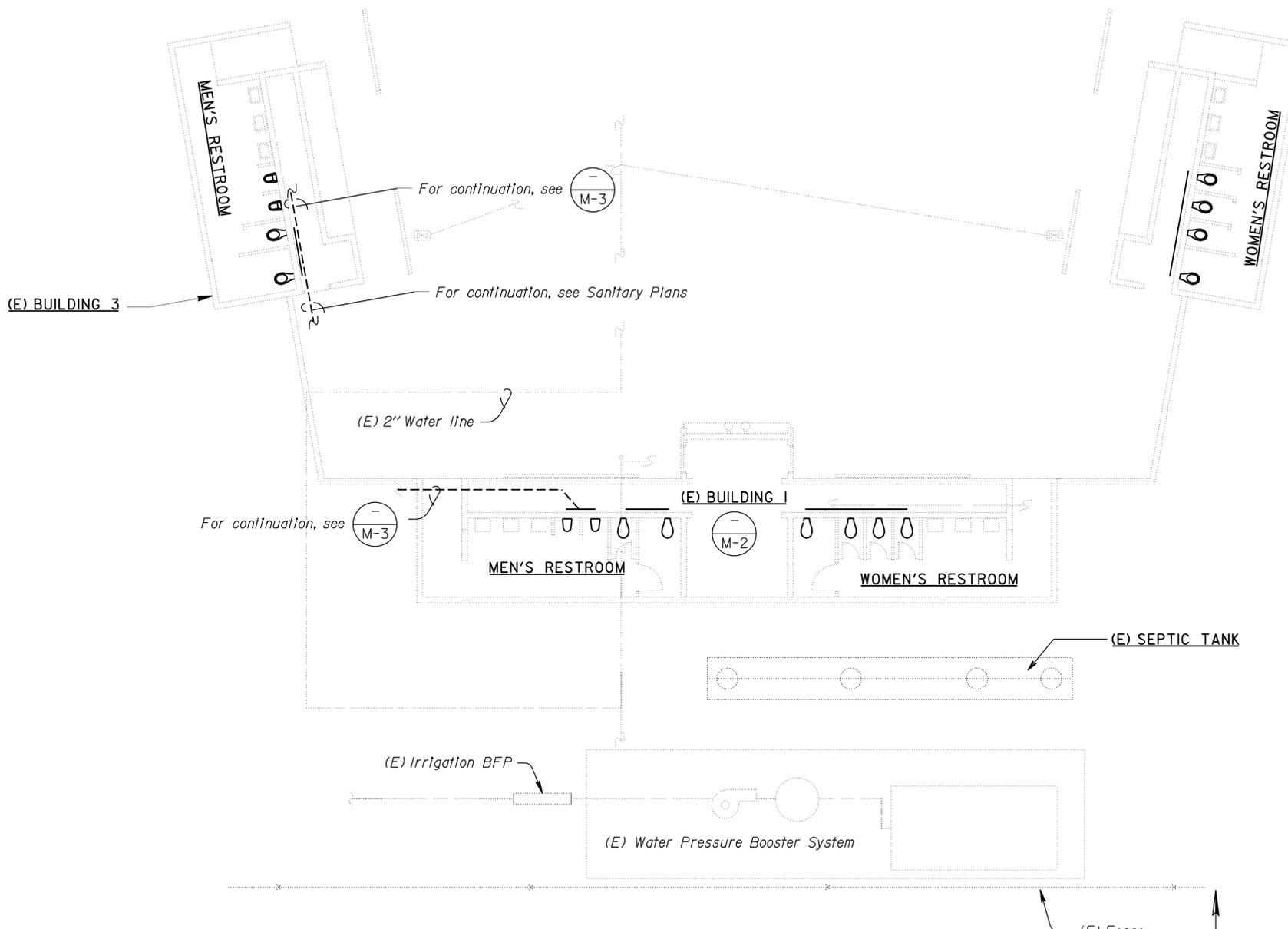
<i>Claude Bylinski</i> 10-28-09 REGISTERED ENGINEER-MECHANICAL		
2-8-10 PLANS APPROVAL DATE		

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Reviewed by: *John E. Woods*
 Approval date: 09-08-09
 CSFM File No. 01-13-11-0021



M E C H A N I C A L A B B R E V I A T I O N S

\emptyset	Diameter	BFP	Backflow Preventer
	Cap, Threaded	CO	Cleanout
	Cold Water	COTF	Cleanout Through Floor
	Cold Water	COTG	Cleanout Through Grade
	Elbow, Turned Down	CV	Check Valve
	Elbow, Turned Up	CW	Cold Water
	Hot Water	DIA	Diameter
	Pressure Gauge (with Valve and Snubber)	(E)	Existing
	Reducer, Concentric	EB	East Bound
	Sanitary Sewer (below grade)	FD	Floor Drain
	Sanitary Sewer Vent	FLS	Flow switch
	Strainer	GALV	Galvanized
	Union	GSP	Galvanized Steel Pipe
	Valve, Ball	GTV	Gate Valve
	Valve, Check	HF	Hose Faucet
	Valve, Gate	LAV	Lavatory
	Section / Elevation Letter	L/s	Liter per second
	Sheet Number	KPa	Kilo Pascal
	Detail Number	Max.	Maximum
	Sheet Number	Min.	Minimum
		m	Meter
		mm	Millimeter
		NPS	Nominal Pipe Size
		SP	Static Pressure
		SS	Sanitary Sewer
		TYP	Typical
		VTR	Vent Through Roof
		WC	Water Closet
		WHA	Water Hammer Arrestor

SITE PLAN
 SCALE 1/8" = 1'-0"

THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

 DESIGN ENGINEER	DESIGN	BY Severiano Gutierrez	CHECKED Claude Bylinski	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	58R0003R	SUNBEAM SAFETY ROADSIDE REST AREA SEWER TREATMENT SYSTEM	EASTBOUND SITE PLAN	SHEET M-1 OF
	DETAILS	BY Severiano Gutierrez	CHECKED Claude Bylinski			POST MILE	31.20			
QUANTITIES	BY Severiano Gutierrez	CHECKED Claude Bylinski	CU 11340 EA 261511			REVISION DATES (PRELIMINARY STAGE ONLY)	03-27-08 07-08 08-28-08 10-28-09			

DS OSD 2139A (4/89) FILE => m1.dgn DATE PLOTTED => 11-FEB-2010 TIME PLOTTED => 05:34 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES

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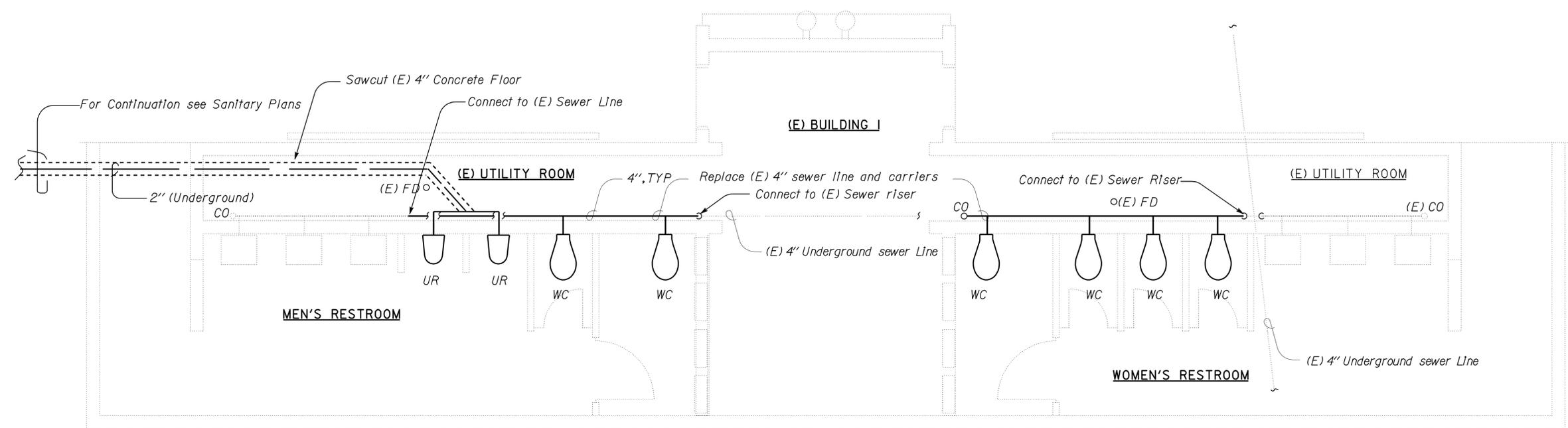
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	56	73
<p><i>Claude Bylinski</i> 10-28-09 REGISTERED ENGINEER-MECHANICAL</p> <p>2-8-10 PLANS APPROVAL DATE</p> <p>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</p>					

CALIFORNIA STATE FIRE MARSHAL APPROVED

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Reviewed by: *JOHN E WOODS*
Approval date: 09-08-09

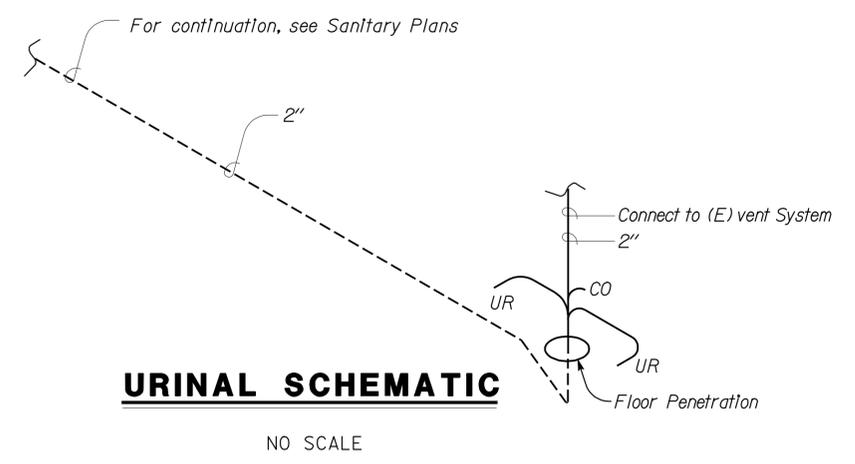
CSEW File No. 01-13-11-0021



- Notes:
1. Remove all existing water closets and urinals and their corresponding carriers.
 2. Install 6 new water closets, corresponding carrier and flush valves. Modify existing rough-in as required.
 3. Remove urinal flush valve and cap water line. Patch wall to match existing.
 4. Install 2 new waterless urinals and corresponding wall support, Modify urinal rough-in as required.
 5. Sawcut (E) concrete slab floor at men's restroom as shown.
 6. Replace concrete slab and finish to match existing.
 7. Connect to (E) Vent System

PLAN

SCALE: 1/4" = 1'-0"



THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY				STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN		BRIDGE NO. 58R0003R POST MILE 31.20		SUNBEAM SAFETY ROADSIDE REST AREA SEWER TREATMENT SYSTEM		EASTBOUND MECHANICAL PLAN-I		SHEET M-2 OF	
DESIGN	BY Severiano Gutierrez	CHECKED Claude Bylinski	DETAILS			BY Severiano Gutierrez	CHECKED Claude Bylinski	QUANTITIES	BY Severiano Gutierrez	CHECKED Claude Bylinski	CU 11340 EA 261511	REVISION DATES (PRELIMINARY STAGE ONLY) 03-27-08 07-03-08 08-28-08 10-28-09			SHEET

USERNAME => hr_tennard DATE PLOTTED => 11-FEB-2010 TIME PLOTTED => 05:34

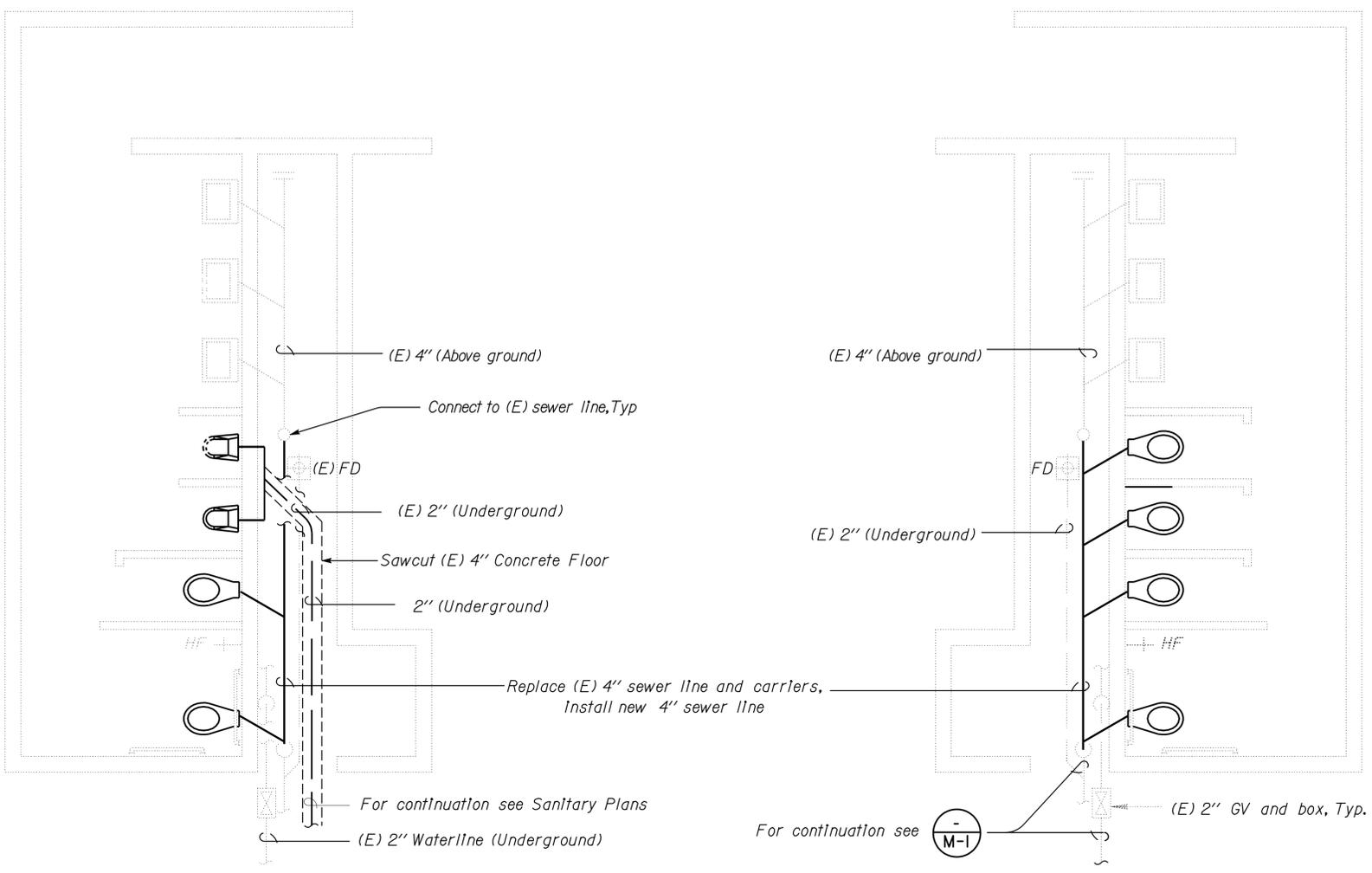
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	57	73

<i>Claude Bylinski</i> 10-28-09 REGISTERED ENGINEER-MECHANICAL		
2-8-10 PLANS APPROVAL DATE		
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 Approval date: 09-08-09
 CSFM File No. 01-13-11-0021



Notes:

Remove all existing water closets and urinals and their corresponding carriers.

Install 6 new water closets, corresponding carrier and flush valves. Modify existing rough-in as required.

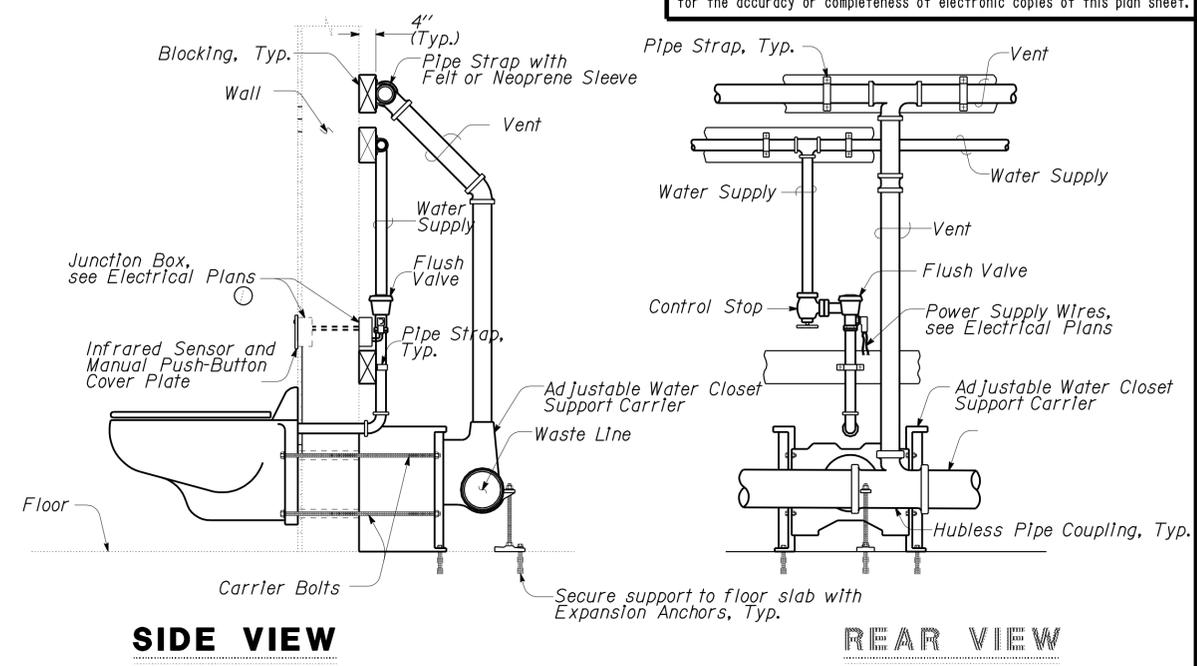
Remove urinal flush valve and cap water line. Patch wall to match existing.

Install 2 new waterless urinals and corresponding wall support. Modify urinal rough-in as required.

Sawcut (E) concrete slab floor at men's restroom as shown.

Replace concrete slab and finish to match existing.

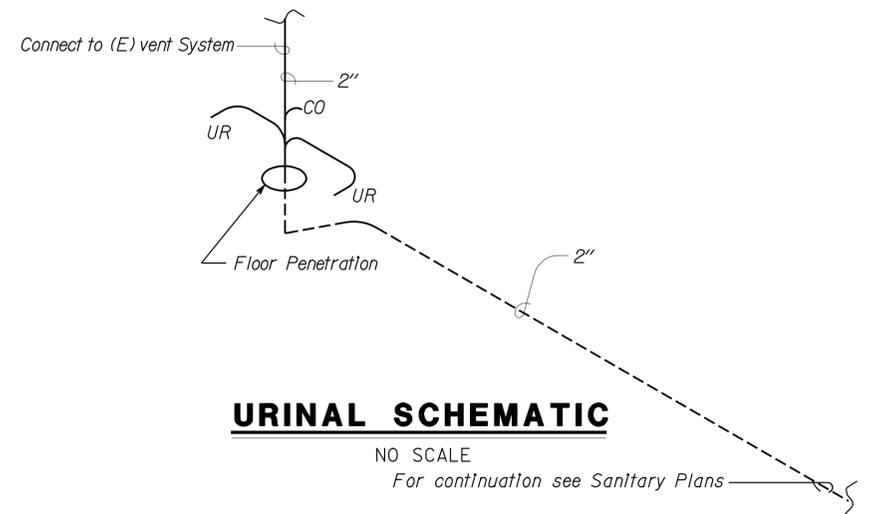
Connect to (E) Vent System



1 WATER CLOSET ROUGH-IN DETAIL

No Scale

Note:
 ① Junction box for Infrared sensor in plumbing alley shall have 6" clear from all plumbing piping



URINAL SCHEMATIC

NO SCALE
 For continuation see Sanitary Plans

THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY				STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN		BRIDGE NO. 58R0003R POST MILE 31.20		SUNBEAM SAFETY ROADSIDE REST AREA SEWER TREATMENT SYSTEM		SHEET M-3 OF					
DESIGN BY <i>Severiano Gutierrez</i> CHECKED <i>Claude Bylinski</i>		DESIGN BY <i>Severiano Gutierrez</i> CHECKED <i>Claude Bylinski</i>						QUANTITIES BY <i>Severiano Gutierrez</i> CHECKED <i>Claude Bylinski</i>		EASTBOUND		MECHANICAL PLAN-2		REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF	
FILE => m_3.dgn DATE PLOTTED => 11-FEB-2010		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS						CU 11340 EA 261511		DISREGARD PRINTS BEARING EARLIER REVISION DATES		03-27-09 03-08-09 08-28-09 10-28-09					

USERNAME => hr1engr Date PLOTTED => 11-FEB-2010 TIME PLOTTED => 05:34

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	58	73

Tech Ngov
REGISTERED ELECTRICAL ENGINEER 10-28-09 DATE

2-8-10
PLANS APPROVAL DATE

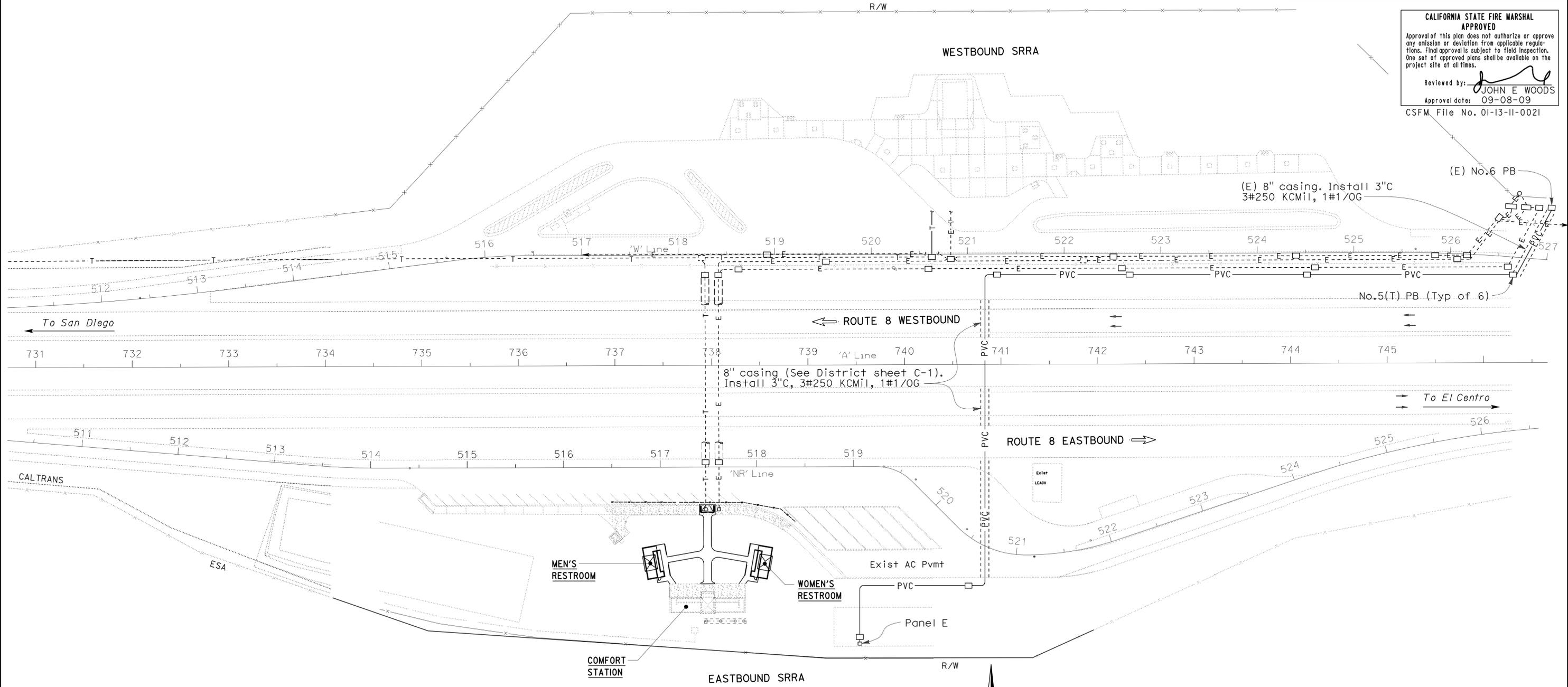
REGISTERED PROFESSIONAL ENGINEER
TECH NGOV
No. E 14521
Exp. 6-30-10
ELEC
STATE OF CALIFORNIA

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CALIFORNIA STATE FIRE MARSHAL APPROVED

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Reviewed by: *JOHN E. WOODS*
Approval date: 09-08-09
CSFM File No. 01-13-11-0021



PLAN
SCALE 1" = 50'-0"

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

 DESIGN SUPERVISOR DESIGN ENGINEER	DESIGN BY <i>Baldev S. Dehal</i>	CHECKED <i>Tech Ngov</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 58R0003R/L	SUNBEAM SAFETY ROADSIDE REST AREA SEWER TREATMENT SYSTEM EXISTING SITE PLAN	SHEET EE0-1 OF
	DETAILS BY <i>Kathl Andreasen</i>	CHECKED <i>Baldev S. Dehal</i>			POST MILE		
	QUANTITIES BY <i>Baldev S. Dehal</i>	CHECKED <i>Tech Ngov</i>					
DOES SD Imperial Rev. 1/07	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			CU 11340 EA 261511	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

11-FEB-2010 05:34

ee0_01.dgn

GRAPHIC SYMBOLS FOR ELECTRICAL WIRING AND LAYOUT DIAGRAMS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	POLE-TOP ELECTROLIER		MOTION SENSOR SWITCH
	POLE-ARM ELECTROLIER		MANUAL MOTOR STARTING SWITCH, THERMAL OVERLOAD TYPE
CEILING WALL			MANUAL MOTOR STARTING SWITCH, WITHOUT OVERLOAD ELEMENT
	SURFACE FLUORESCENT, METAL HALIDE OR SODIUM VAPOR FIXTURE		TIMER SWITCH
	RECESSED FLUORESCENT, METAL HALIDE, OR SODIUM VAPOR FIXTURE		SWITCH AND SINGLE RECEPTACLE
	EXIT LIGHT		SWITCH AND DUPLEX RECEPTACLE
	SURFACE OR PENDANT INDIVIDUAL FLUORESCENT FIXTURE		HAND DRYER NOZZLE
	RECESSED INDIVIDUAL FLUORESCENT FIXTURE		HAND DRYER
	SURFACE OR PENDANT CONTINUOUS ROW FLUORESCENT FIXTURES		RADIO OUTLET
	NOTE: A LOWER CASE LETTER NEAR GRAPHIC LIGHTING FIXTURE SYMBOL DENOTES THAT FIXTURE IS CONTROLLED BY A SIMILARLY MARKED SWITCH, AN ALPHANUMERIC SYMBOL NEAR GRAPHIC LIGHTING FIXTURE SYMBOL DENOTES FIXTURE TYPE, (I=INCANDESCENT, F=FLUORESCENT, MH=METAL HALIDE, H=HIGH PRESSURE SODIUM VAPOR), DESIGN TYPE, NUMBER OF LAMPS AND WATTAGE. EXAMPLE: (4) F 2 - 2 x 32 <div style="margin-left: 20px;"> </div>		TELEPHONE OUTLET
	BLANK OUTLET		SOUND SYSTEM LOUD SPEAKER OUTLET
	JUNCTION BOX		PUSHBUTTON
	DROP CORD		PUSHBUTTON STATION, NC, WITH LOCKING DEVICE FOR OPEN
	SINGLE RECEPTACLE OUTLET		PUSHBUTTON STATION MOTOR CONTROL
	DUPLEX RECEPTACLE OUTLET		BUZZER
	DUPLEX RECEPTACLE OUTLET (WITH GFCI)		BELL
	DUPLEX RECEPTACLE OUTLET, WEATHERPROOF (WITH GFCI)		COMBINATION BELL-BUZZER
	SINGLE, SPECIAL PURPOSE RECEPTACLE OUTLET		THERMOSTAT
	DUPLEX, SPECIAL PURPOSE RECEPTACLE OUTLET		PRESSURE SWITCH
	RANGE OUTLET		CONTROL RELAY
	CLOCK HANGER RECEPTACLE		FLOW SWITCH
	FAN HANGER RECEPTACLE		PHOTOELECTRIC CELL
	FLOOR SINGLE RECEPTACLE OUTLET		RADIO OUTLET
	FLOOR DUPLEX RECEPTACLE OUTLET		TELEVISION OUTLET
	FLOOR SPECIAL PURPOSE OUTLET		MICROPHONE OUTLET
	FLOOR RADIO OUTLET		FLUSH-MOUNTED PANELBOARD AND CABINET
	FLOOR TELEPHONE OUTLET		SURFACE-MOUNTED PANELBOARD AND CABINET
	MULTI-FLOOR OUTLET, 2 OR MORE GANG		LIGHTING PANEL
	MULTI-OUTLET ASSEMBLY		POWER PANEL
	SINGLE POLE SWITCH		COMBINATION LIGHTING AND POWER
	DOUBLE POLE SWITCH		MOTOR CONTROLLER
	THREE WAY SWITCH		DISCONNECT SWITCH
	FOUR WAY SWITCH		CONDUIT CONCEALED IN CEILING OR WALL
	AUTOMATIC DOOR		CONDUIT CONCEALED IN FLOOR
	KEY OPERATED SWITCH		CONDUIT EXPOSED
	SWITCH AND PILOT LIGHT		CROSS-LINES INDICATE NUMBER OF #12 AWG CONDUCTORS. LONGER CROSS-LINE INDICATES #12 AWG (G) FOR EQUIPMENT GROUNDING CONDUCTOR. NO CROSS-LINE INDICATES 2#12 WITH #12 (G) UNLESS OTHERWISE NOTED. ALL CONDUIT SHALL BE 1/2" UNLESS OTHERWISE NOTED.
	MOMENTARY CONTACT SWITCH		HOMERUN TO PANELBOARD, ARROWS INDICATE NUMBER OF CIRCUITS, LETTER DENOTES PANELBOARD, NUMERAL DENOTES CIRCUIT.
	REMOTE CONTROL SWITCH		SURFACE METAL RACEWAY
	WEATHERPROOF SWITCH		(2) 1/2" C, PVC, 2#12 CONDUCTOR INFO (PER CONDUIT)
	FAN SWITCH		CONDUIT TYPE
	LIGHT SWITCH		CONDUIT SIZE
	HEATER SWITCH		NUMBER OF CONDUITS (NO NUMBER INDICATES ONE CONDUIT)
	VARIABLE SPEED MOTOR CONTROL SWITCH		CONDUIT, RIGID STEEL, UNDERGROUND
	TWO SWITCHES, ONE SWITCH FOR LIGHT AND FAN AND TIMER SWITCH FOR HEAT LAMP		CONDUIT, POLYVINYL CHLORIDE, UNDERGROUND
			CONDUIT, FLEXIBLE
			CONDUIT, TURN UP
			CONDUIT, TURN DOWN
			CONDUIT SEAL, EXPLOSION-PROOF
			CONDUIT, EXPANSION JOINT
			ADAPTER, ONE TYPE CONDUIT TO ANOTHER
			POLE

GRAPHIC SYMBOLS FOR ELECTRICAL DIAGRAMS

SYMBOL	DESCRIPTION
	CIRCUIT BREAKER, SINGLE POLE
	CIRCUIT BREAKER, DOUBLE POLE
	CIRCUIT BREAKER, THREE POLE
	CIRCUIT BREAKER, WITH GROUND FAULT CIRCUIT INTERRUPTER
	CONTACT, NORMALLY OPEN
	CONTACT, NORMALLY CLOSED
	CONTACT, NORMALLY CLOSED, TIME DELAY CLOSING ON DE-ENERGIZING
	CONTACT, NORMALLY OPEN, TIME DELAY OPENING ON DE-ENERGIZING
	CONTACT, NORMALLY OPEN, TIME DELAY CLOSING ON ENERGIZING
	CONTACT, NORMALLY CLOSED, TIME DELAY OPENING ON ENERGIZING
	CONTACT, SINGLE POLE DOUBLE-THROW
	OPERATING COIL
	LIQUID LEVEL ACTUATED SWITCH, NORMALLY CLOSED
	LIQUID LEVEL ACTUATED SWITCH, NORMALLY OPEN
	PRESSURE ACTUATED SWITCH, NORMALLY CLOSED
	PRESSURE ACTUATED SWITCH, NORMALLY OPEN
	FLOW ACTUATED SWITCH, NORMALLY OPEN
	TEMPERATURE ACTUATED SWITCH, NORMALLY CLOSED
	TEMPERATURE ACTUATED SWITCH, NORMALLY OPEN
	LIMIT SWITCH, NORMALLY CLOSED
	LIMIT SWITCH, NORMALLY OPEN
	PUSHBUTTON SWITCH, NORMALLY CLOSED
	PUSHBUTTON SWITCH, NORMALLY OPEN
	SWITCH, SINGLE-POLE
	SWITCH, SINGLE-POLE, DOUBLE-THROW
	SWITCH, DOUBLE-POLE
	SWITCH, DOUBLE-POLE, DOUBLE-THROW
	SWITCH, SINGLE-POLE, 3-POSITION
	THERMAL OVERLOAD
	FUSE
	RESISTOR
	VARIABLE RESISTOR
	TRANSFORMER WINDING
	GROUNDING ELECTRODE
	ENCLOSURE BOND
	PILOT LIGHT (A=AMBER, G=GREEN, R=RED)
	GENERATOR
	MOTOR
	FAN MOTOR

PROJECT NOTES

- A. SEPARATE GROUNDED (NEUTRAL) CONDUCTOR SHALL BE USED FOR EACH 120-VOLT CIRCUIT.
- B. HOMERUNS TO PANELBOARDS SHALL BE INSTALLED AS SHOWN ON THE PLANS. HOMERUNS SHALL NOT BE COMBINED.
- C. A SINGLE INSULATED EQUIPMENT GROUNDING CONDUCTOR (SIZED AS REQUIRED) SHALL BE INSTALLED IN EACH CONDUIT RUN.

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	59	73

10-28-08
DATE

2-8-10
PLANS APPROVAL DATE

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Reviewed by:

Approval date: 09-08-09

CSFM File No. 01-13-11-0021

ABBREVIATIONS

A	AMPERES
A/C	AIR CONDITIONING UNIT
ACS	AIR COMPRESSOR STARTER
AI	ANALOG INPUT
AL	ALARM LIGHT
AO	ANALOG OUTPUT
AVC	AIR VOLUME CONTROLLER
BD	BUILDING DISCONNECT
BRK	BREAKER
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CR	CONTROL RELAY
CSW	CURRENT SWITCH
DI	DIGITAL INPUT
DO	DIGITAL OUTPUT
DP	DUPLEX PLUG RECEPTACLE
DS	DOOR SWITCH
(E)	EXISTING
EF	EXHAUST FAN
F	FUSE
FL	FAILURE LIGHT
FLA	FLASHER
FLEX	FLEXIBLE CONDUIT
FLS	FLOW SWITCH
FR	FAILURE RESET
FS	FLOAT SWITCH
G	GROUND
G/B	GROUND BAR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GRS	GALVANIZED RIGID STEEL
IR	INDUCTION RELAY
JB	JUNCTION BOX
L	LIGHT
LC	LIGHTING CONTACTOR
LCP	LIGHTING CONTROL PANEL
LD	LIGHT DISCONNECT
LL	LIQUID LEVEL RELAY
LLC	LIQUID LEVEL CONTROLLER
LP	LIGHT PANEL
LS	LIGHT SWITCH
LT	LIGHT TRANSFORMER
MB	MAIN BREAKER
MC	METALLIC CONDUIT
MCP	MOTOR CIRCUIT PROTECTOR
MCC	MOTOR CONTROL CENTER
MSB	MAIN SWITCHBOARD
MT	EMPTY CONDUIT
(N)	NEW
N/B	NEUTRAL BAR
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NSW	NEUTRAL SWITCHING BREAKER
OL	OVERLOAD
P	POLE
PB	PULL BOX
PB	PUSHBUTTON
PEC	PHOTOELECTRIC CELL
PL	PILOT LIGHT
PS	PRESSURE SWITCH
PTS	POWER TRANSFER SWITCH
PVC	POLYVINYL CHLORIDE
RES	RESISTOR
RTB	RADIO TERMINAL BOARD
S	STARTER COIL
SD	SERVICE DISCONNECT
SFR	SEAL FAILURE RELAY
SL	SUMP LIGHT
SPR	STANDBY POWER RECEPTACLE
SS	SELECTOR SWITCH
ST	STARTER
SV	SOLENOID VALVE
T	TRANSFORMER
TB	TERMINAL BLOCK
TDR	TIME DELAY RELAY
TGLS	TOGGLE SWITCH
TM	TIME METER
TOT	TOTAL
TS	TIMER SWITCH
TSW	TEST SWITCH
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UPS	UNINTERRUPTIBLE POWER SUPPLY
WLS	WATER LEVEL SWITCH
WP	WEATHERPROOF

DESIGN BY <i>Baldev S. Dehal</i> CHECKED <i>Tech Ngov</i> DETAILS BY <i>Kathl Andreasen</i> CHECKED <i>Baldev S. Dehal</i> QUANTITIES BY <i>Baldev S. Dehal</i> CHECKED <i>Tech Ngov</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 58R0003R POST MILE	SUNBEAM SAFETY ROADSIDE REST AREA SEWER TREATMENT SYSTEM	SHEET EE1-0	
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			EASTBOUND	LEGEND	SHEET OF
	CU 11340 EA 261511			DISREGARD PRINTS BEARING EARLIER REVISION DATES		

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	60	73

Tech Ngo
 REGISTERED ELECTRICAL ENGINEER DATE 10-28-08

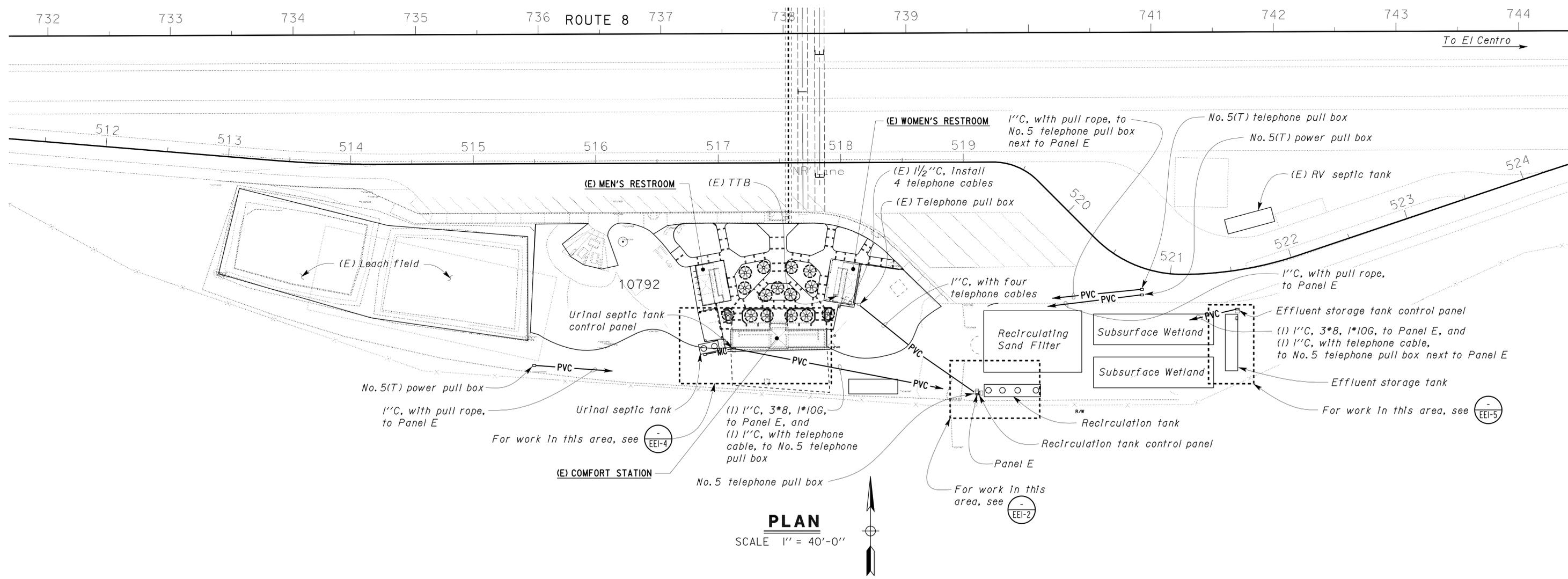
2-8-10
 PLANS APPROVAL DATE

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Reviewed by: *JOHN E WOODS*
 Approval date: 09-08-09
 CSFM File No. 01-13-11-0021



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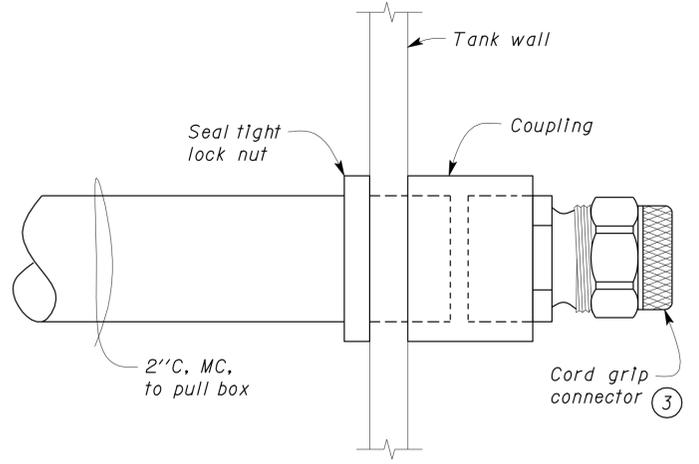
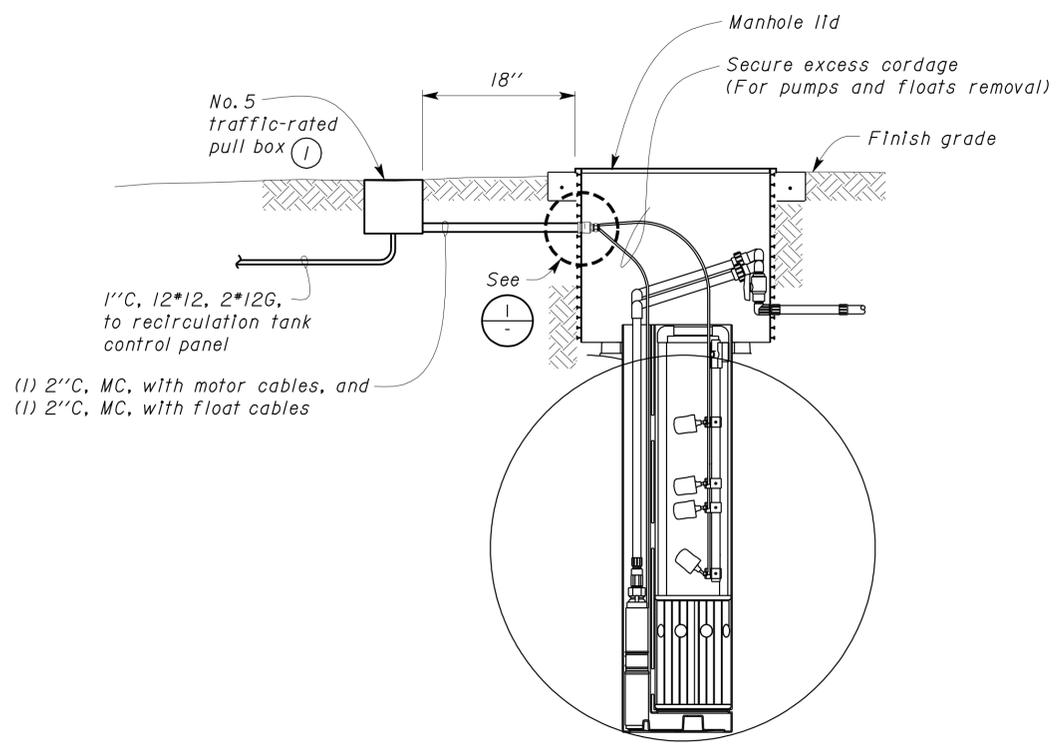
DESIGN BY <i>Baldev S. Dehal</i> CHECKED <i>Tech Ngo</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 58R0003R	SUNBEAM SAFETY ROADSIDE REST AREA SEWER TREATMENT SYSTEM		SHEET EE1-1										
			POST MILE	EASTBOUND	MODIFIED ELECTRICAL SITE PLAN											
			DISREGARD PRINTS BEARING EARLIER REVISION DATES			REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF								
DETAILS BY <i>Kathl Andreasen</i> CHECKED <i>Baldev S. Dehal</i>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 11340 EA 261511	0	1	2	3	10/23/07	10/28/09	1/3/08	1/10/08	3/7/08	3/19/08	3/25/08	7/3/08	8/28/08	OF
QUANTITIES BY <i>Baldev S. Dehal</i> CHECKED <i>Tech Ngo</i>																ee1_01.dgn

11-FEB-2010 05:35

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	61	73

Reviewed by: <i>John E Woods</i> Approval date: 09-08-09 CSFM File No. 01-13-11-0021	REGISTERED ELECTRICAL ENGINEER DATE 10-28-08 TECH NGOV No. E 14521 Exp. 6-30-10 ELEC STATE OF CALIFORNIA
2-8-10 PLANS APPROVAL DATE	
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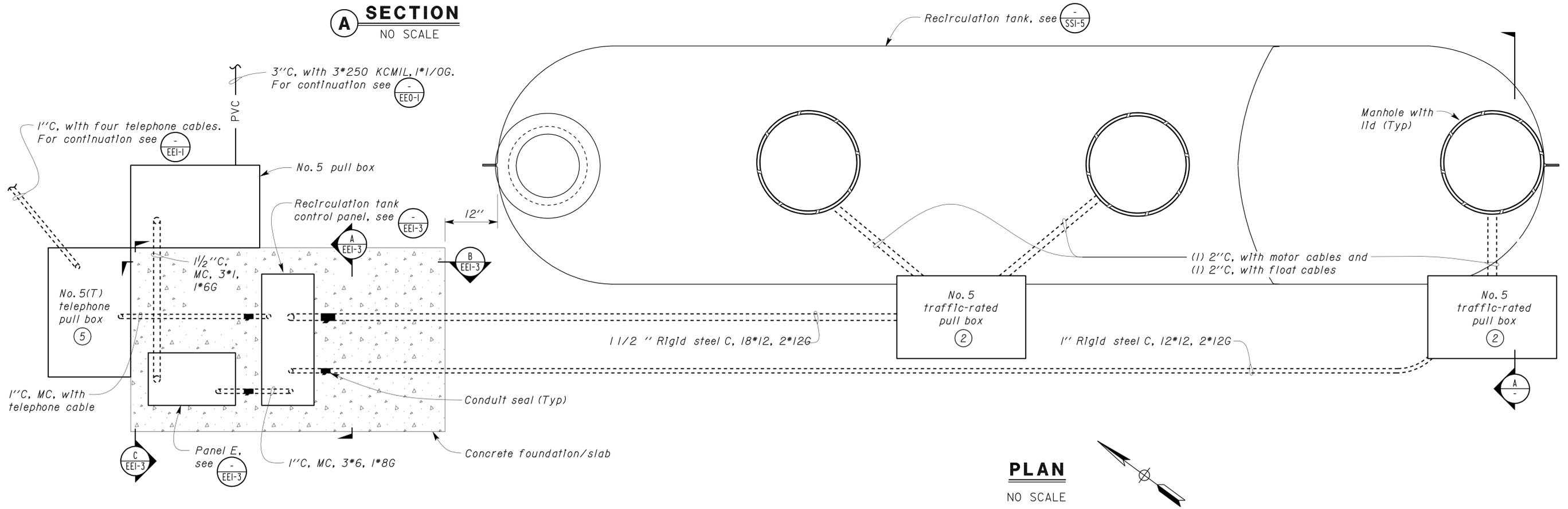
CALIFORNIA STATE FIRE MARSHAL
APPROVED
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 Approval date: 09-08-09
 CSFM File No. 01-13-11-0021



1 DETAIL
NO SCALE

A SECTION
NO SCALE

- Notes:
- For pull box detail, see (1) EEI-6.
 - Splice motor cables and float cables to conductors from control panel.
 - Provide correct size for number of cables.
 - (Not used)
 - Other conduits not shown for clarity.



PLAN
NO SCALE

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN	BY Baldev S. Dehal	CHECKED Tech Ngov
DETAILS	BY Kathl Andreasen	CHECKED Baldev S. Dehal
QUANTITIES	BY Baldev S. Dehal	CHECKED Tech Ngov

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF ENGINEERING SERVICES
 ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO.	58R0003R	SUNBEAM SAFETY ROADSIDE REST AREA SEWER TREATMENT SYSTEM	EASTBOUND	ENLARGED PARTIAL SITE PLAN NO. 1 AND RECIRCULATION TANK DETAILS
POST MILE				

SHEET
EE1-2

DOES SD Imperial Rev. 1/07

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

0	1	2	3
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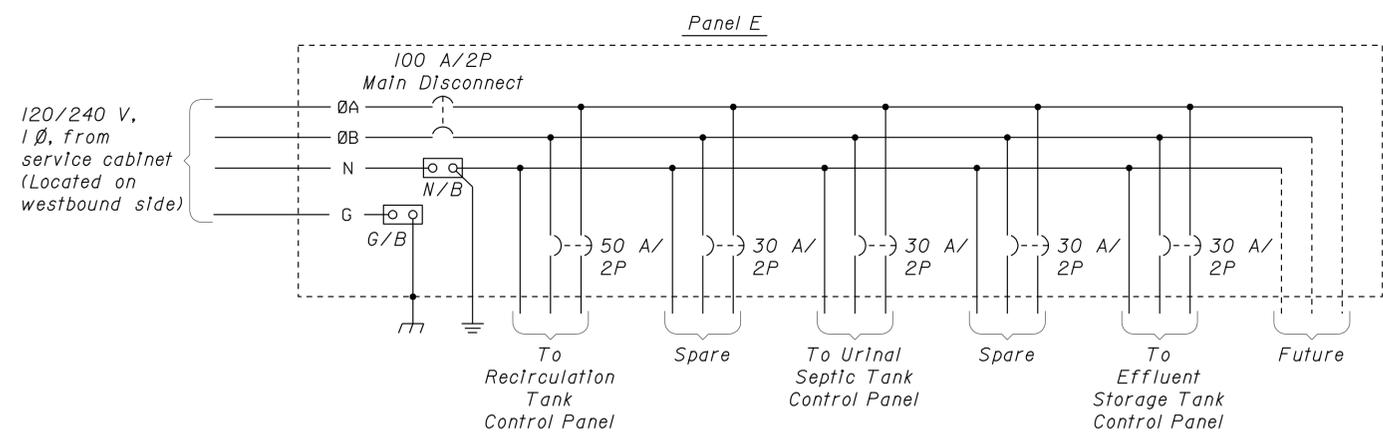
CU 11340
EA 261511

DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
	10/23/07 7/7/08 8/25/08 8/28/08 10/28/08 1/9/09 3/7/09 3/7/09 3/25/09	

ee1_02.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	62	73

2-8-10	PLANS APPROVAL DATE
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POWER SCHEMATIC

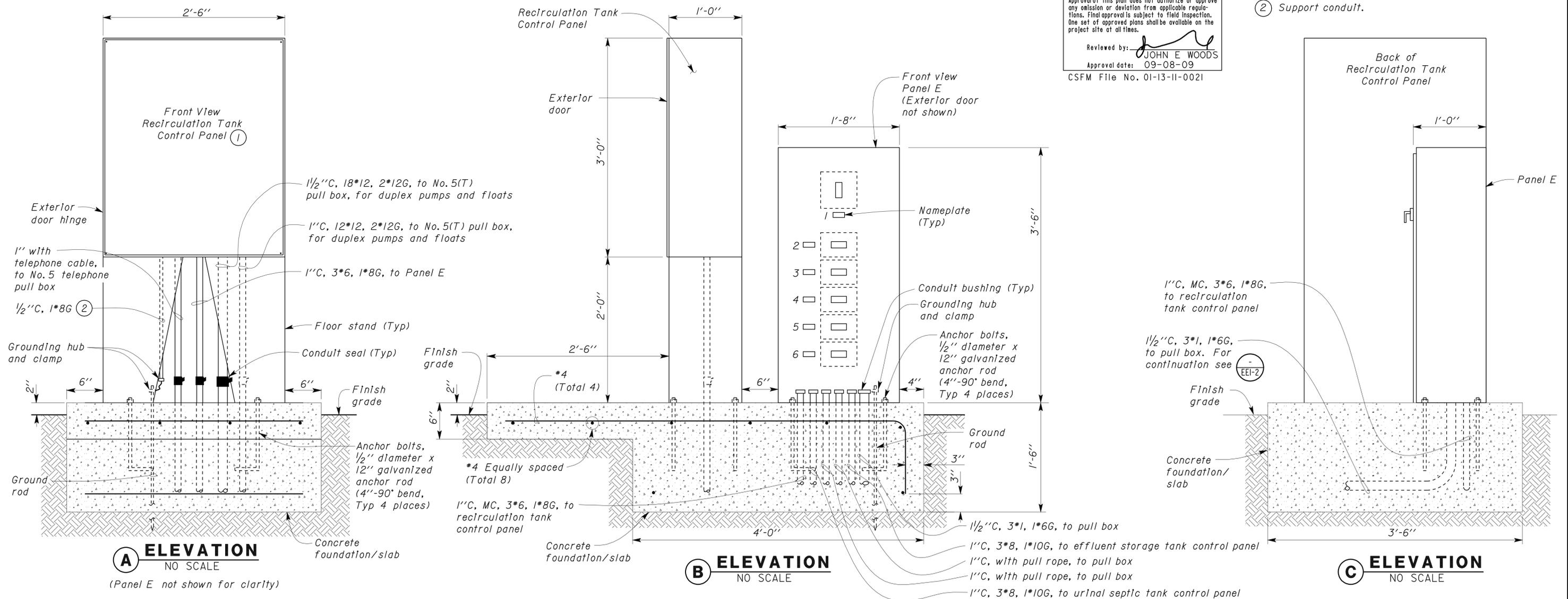
ITEM NO.	INSCRIPTION	LETTER HEIGHT
1	MAIN DISCONNECT	1/8"
2	RECIRCULATION TANK DISCONNECT	1/8"
3	SPARE	1/8"
4	URINAL SEPTIC TANK DISCONNECT	1/8"
5	SPARE	1/8"
6	EFFLUENT STORAGE TANK CONTROL PANEL	1/8"
7	PANEL E, 120/240 VOLT, 1-PHASE, 3-WIRE	1/4"

*Nameplate No.7 shall be mounted on the exterior door of Panel E and other nameplates shall be mounted adjacent to each device it is identifying.

Notes:

- Control panel shall be supplied by effluent turbine duplex filtered pump system supplier. If control panel supplied is smaller than as shown, Contractor shall install the smaller cabinet inside the cabinet as shown.
- Support conduit.

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 Reviewed by: *JOHN E WOODS*
 Approval date: 09-08-09
 CSFM File No. 01-13-11-0021



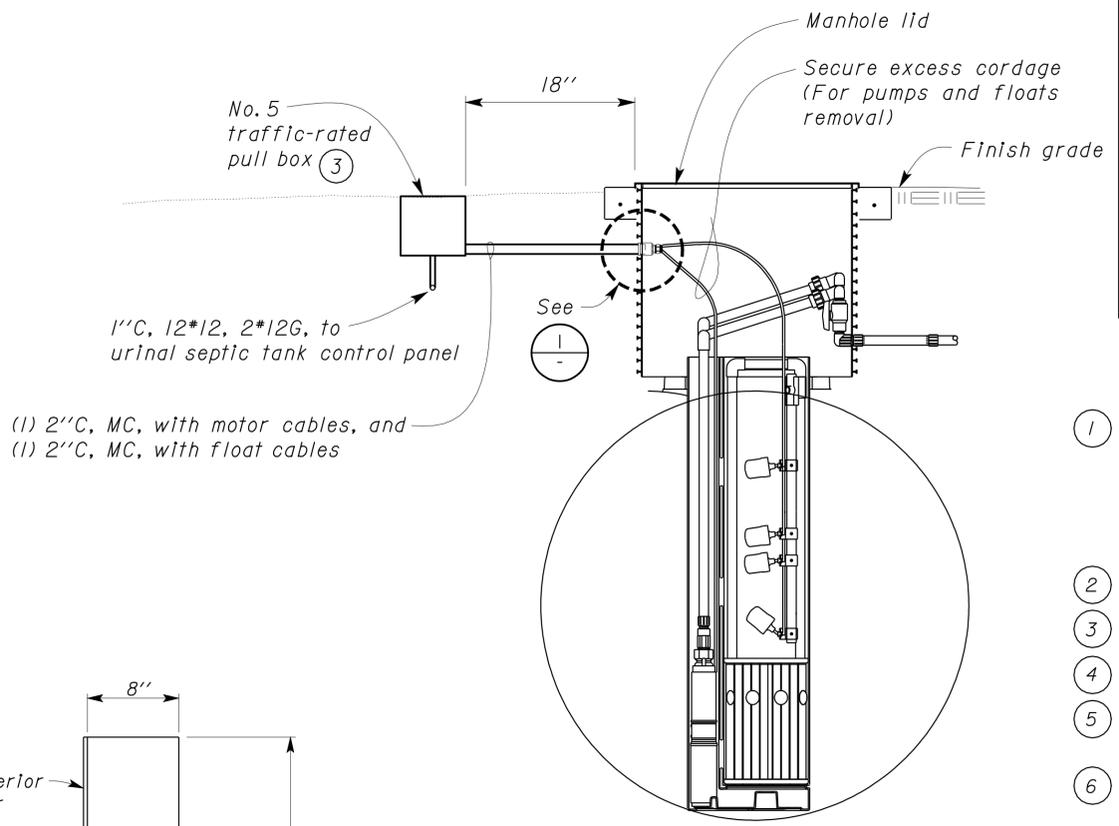
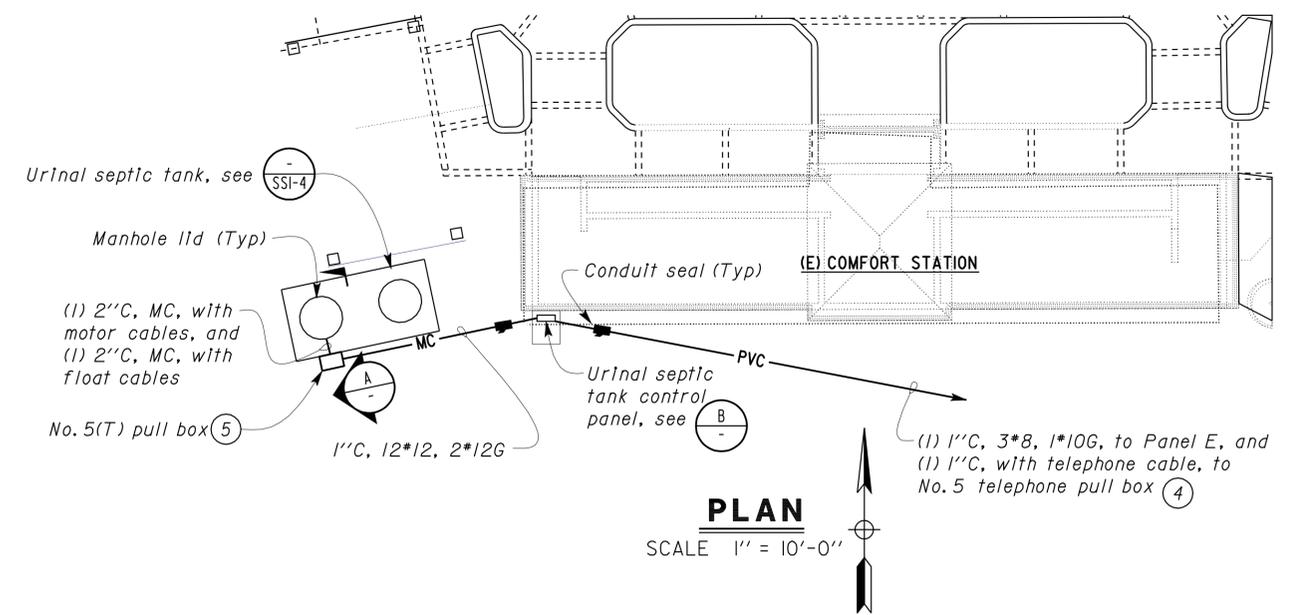
RECIRCULATION TANK CONTROL PANEL AND PANEL E

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN BY <i>Baldev S. Dehal</i> CHECKED <i>Tech Ngo</i>		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 58R0003R	SUNBEAM SAFETY ROADSIDE REST AREA SEWER TREATMENT SYSTEM RECIRCULATION TANK CONTROL PANEL & PANEL E DETAILS	SHEET EE1-3	
DETAILS BY <i>Kathl Andreasen</i> CHECKED <i>Baldev S. Dehal</i>				POST MILE EASTBOUND		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
QUANTITIES BY <i>Baldev S. Dehal</i> CHECKED <i>Tech Ngo</i>				CU 11340 EA 261511		10/23/07 8/25/08 8/28/08 10/28/08 1/9/09 3/6/09 3/7/09 3/25/09 7/3/09	OF

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	63	73

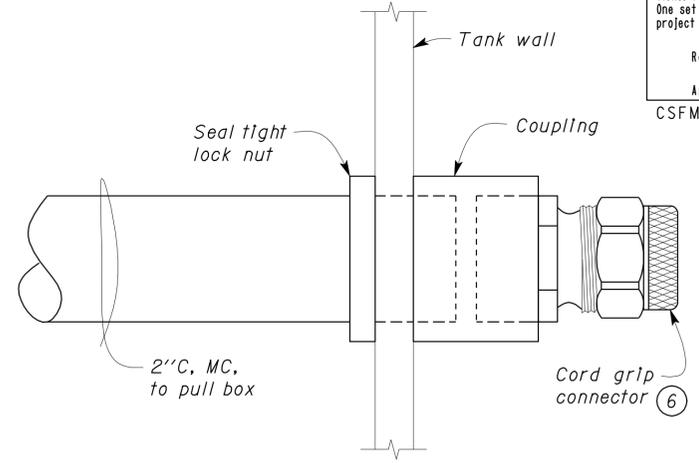
<i>Tech Ngov</i> REGISTERED ELECTRICAL ENGINEER No. E 14521 Exp. 6-30-10 ELEC STATE OF CALIFORNIA		10-28-08 DATE
2-8-10 PLANS APPROVAL DATE		
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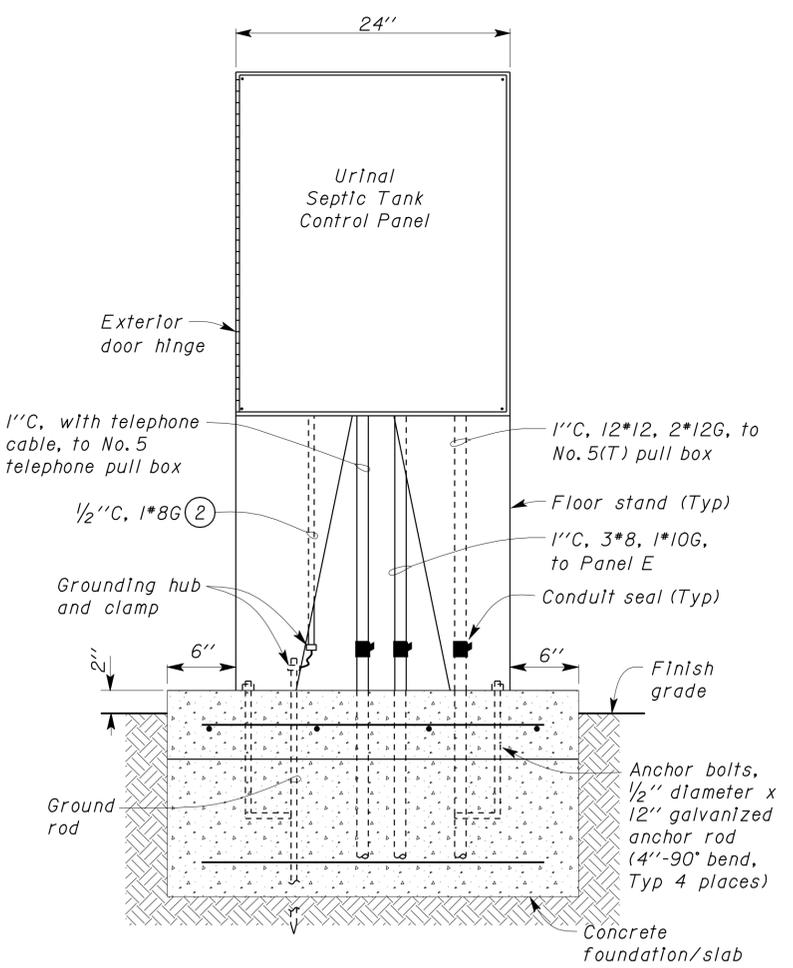
- Notes:**
- Control panel shall be supplied by duplex filtered pump system supplier. If control panel supplied is smaller than as shown, Contractor shall install the smaller cabinet inside the cabinet as shown.
 - Support conduit.
 - For pull box detail see (1).
 - For continuation see (1).
 - Splice motor cables and float cables to conductors from control panel.
 - Provide correct size for number of cables.

A SECTION
NO SCALE

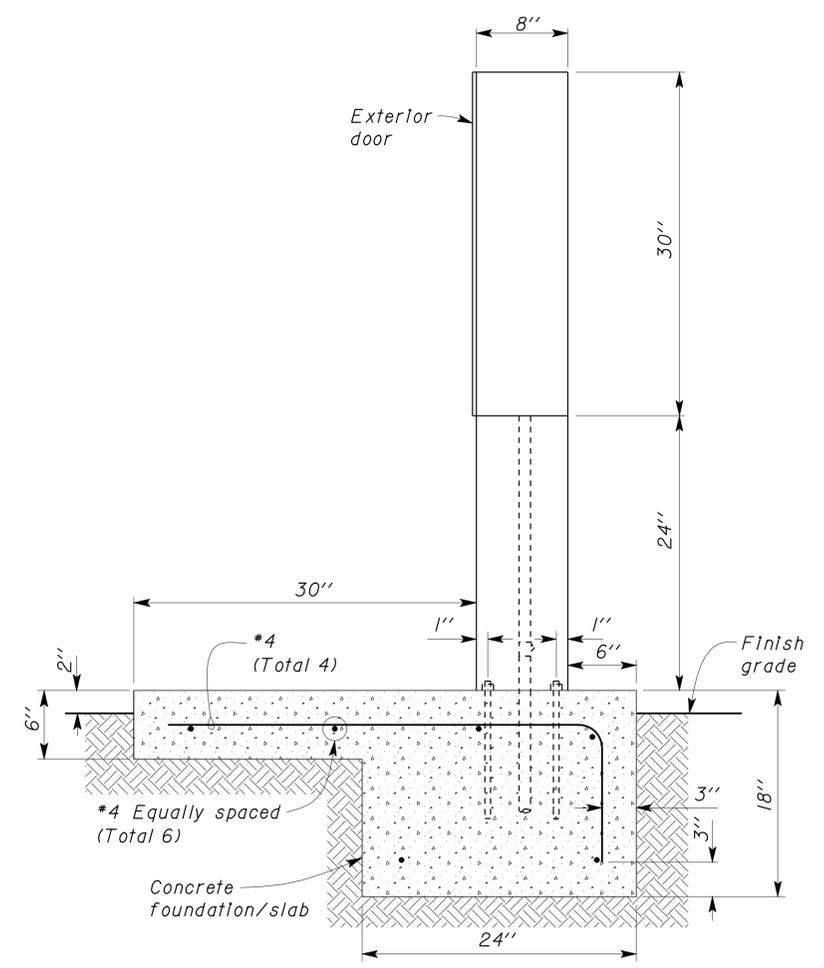
CALIFORNIA STATE FIRE MARSHAL APPROVED
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by: *JOHN E WOODS*
 Approval date: 09-08-09
 CSFM File No. 01-13-11-0021



1 DETAIL
NO SCALE



FRONT VIEW



SIDE VIEW

B ELEVATION (1)
NO SCALE

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN	BY <i>Baldev S. Dehal</i>	CHECKED <i>Tech Ngov</i>
DETAILS	BY <i>Kathl Andreasen</i>	CHECKED <i>Baldev S. Dehal</i>
QUANTITIES	BY <i>Baldev S. Dehal</i>	CHECKED <i>Tech Ngov</i>

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO. 58R0003R
 POST MILE EASTBOUND

SUNBEAM SAFETY ROADSIDE REST AREA SEWER TREATMENT SYSTEM
 ENLARGED PARTIAL SITE PLAN NO. 2 AND URINAL SEPTIC TANK DETAILS

SHEET **EE1-4** OF

DOES SD Imperial Rev. 1/07

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

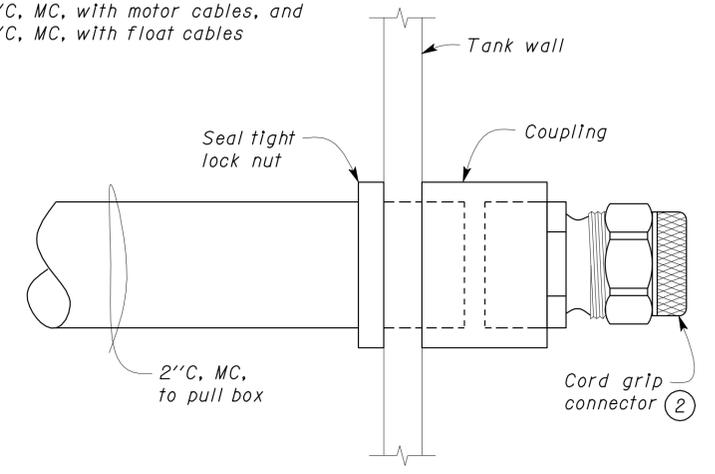
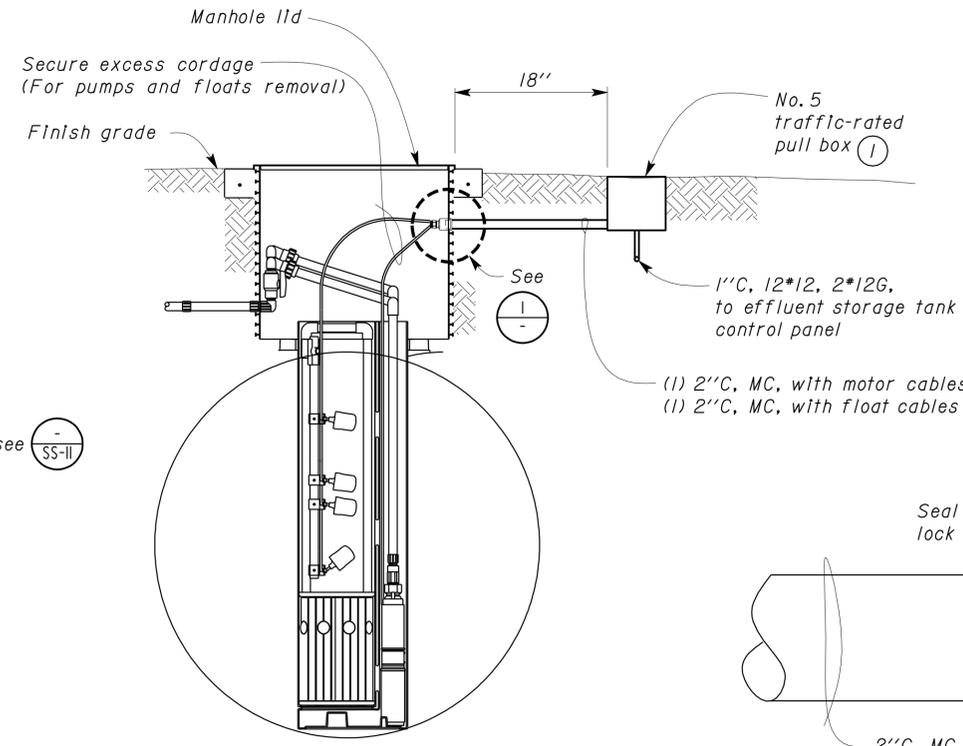
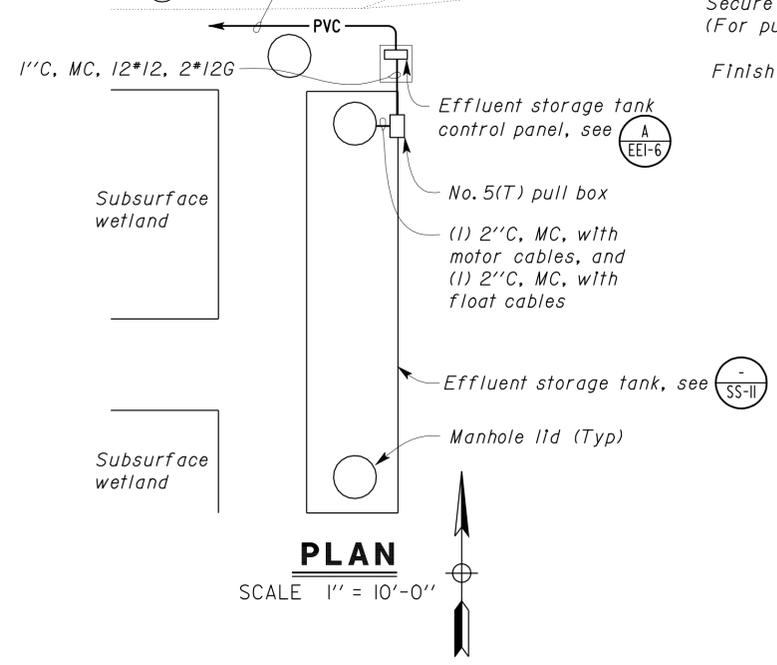
CU 11340
 EA 261511

DISREGARD PRINTS BEARING EARLIER REVISION DATES

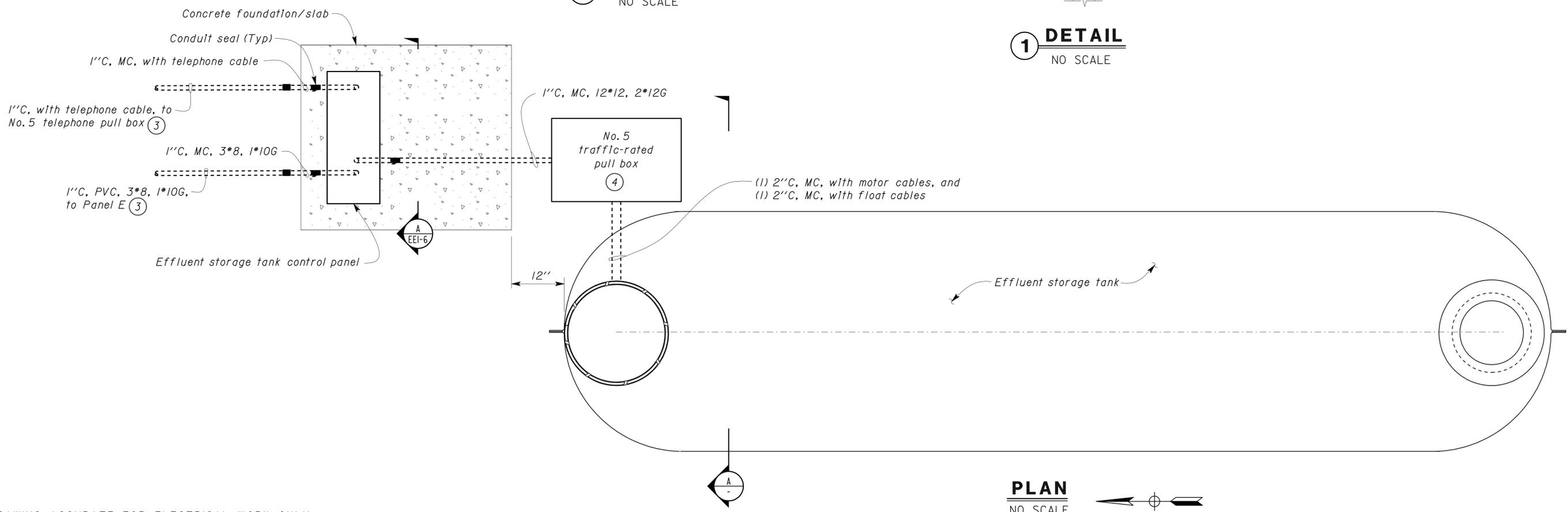
REVISION DATES (PRELIMINARY STAGE ONLY)						
10/23/07	7/3/08	8/28/08	10/28/08	1/3/09	1/9/09	3/7/09

SHEET OF

(1) 1" C, 3*8, 1*10G, to Panel E, and
 (1) 1" C, with telephone cable, to
 No. 5 telephone pull box (3)



1 DETAIL
NO SCALE



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 Reviewed by: *John E Woods*
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 CSFM File No. 01-13-11-0021

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	64	73

2-8-10
PLANS APPROVAL DATE

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- Notes:**
- For pull box detail see 1 EEI-6.
 - Provide correct size for number of cables.
 - For continuation see EEI-7.
 - Splice motor cables and float cables to conductors from control panel.

DESIGN	BY Baldev S. Dehal	CHECKED Tech Ngov
DETAILS	BY Kathl Andreasen	CHECKED Baldev S. Dehal
QUANTITIES	BY Baldev S. Dehal	CHECKED Tech Ngov

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF ENGINEERING SERVICES
 ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO. 58R0003R
 POST MILE EASTBOUND
SUNBEAM SAFETY ROADSIDE REST AREA SEWER TREATMENT SYSTEM
 ENLARGED PARTIAL SITE PLAN NO. 3 AND EFFLUENT STORAGE TANK DETAILS

SHEET **EE1-5** OF

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	65	73

Reviewed by: <i>John E Woods</i>	10-28-08
Approval date: 09-08-09	DATE
CSFM File No. 01-13-11-0021	

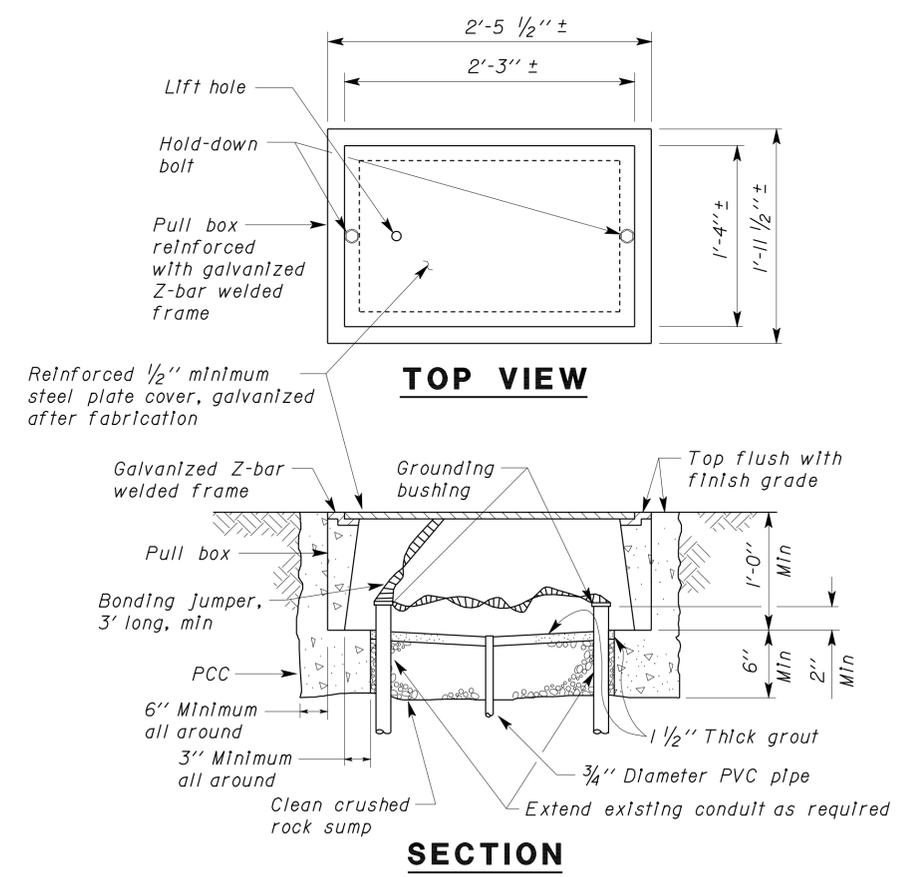
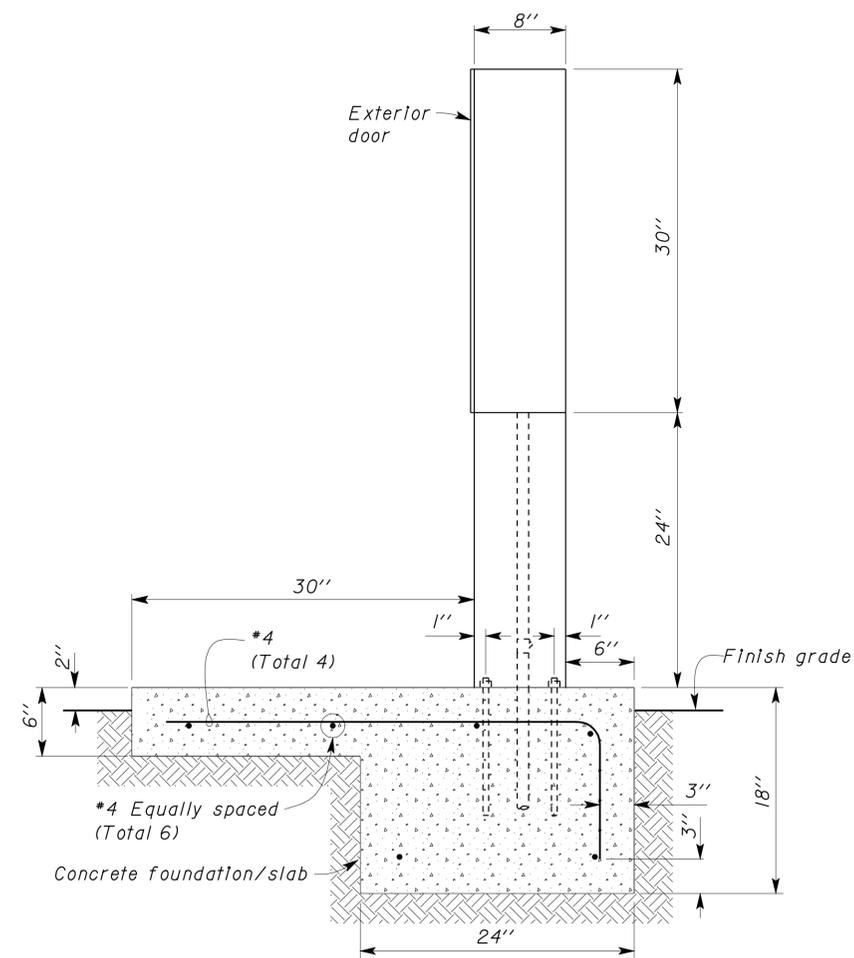
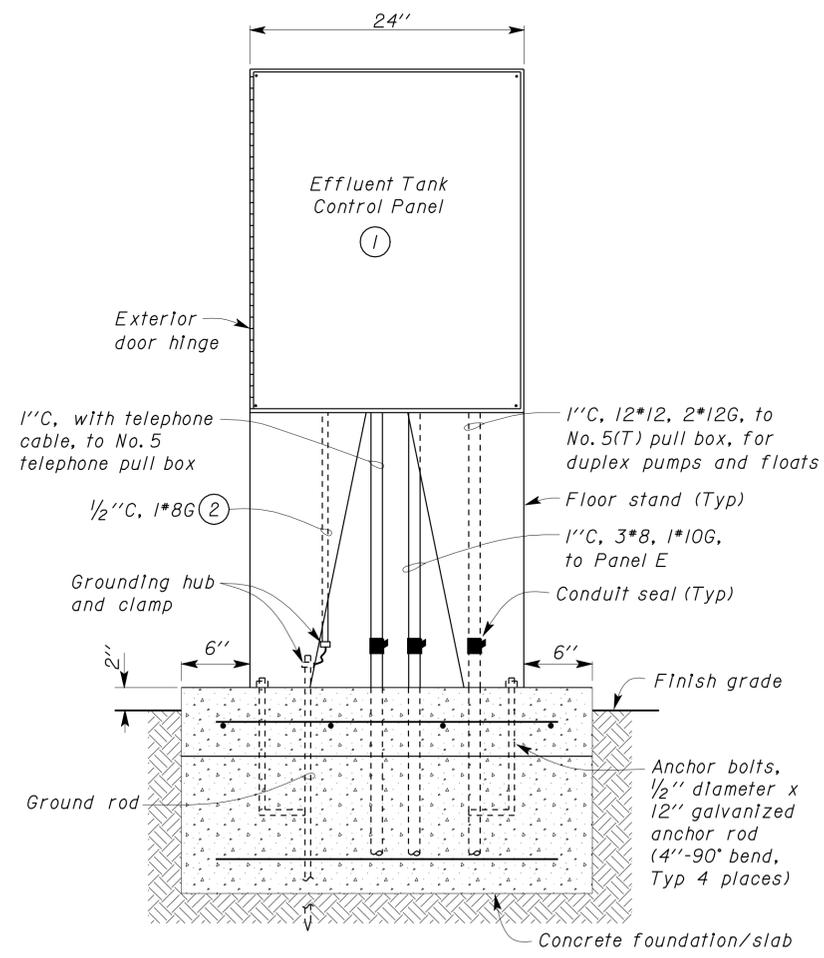
TECH NGOV No. E 14521 Exp. 6-30-10 ELEC STATE OF CALIFORNIA

2-8-10
PLANS APPROVAL DATE

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CALIFORNIA STATE FIRE MARSHAL APPROVED
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- Notes:
- Control panel shall be supplied by duplex filtered pump system supplier. If control panel supplied is smaller than as shown, Contractor shall install the smaller cabinet inside the cabinet as shown.
 - Support conduit.



FRONT VIEW

SIDE VIEW

SECTION

1 NO. 5 TRAFFIC-RATED PULL BOX
NO SCALE

A ELEVATION 1
NO SCALE

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN	BY	Baldev S. Dehal	CHECKED	Tech Ngov	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	58R0003R	SUNBEAM SAFETY ROADSIDE REST AREA SEWER TREATMENT SYSTEM	EASTBOUND	EFFLUENT STORAGE TANK CONTROL PANEL AND PULL BOX DETAILS	SHEET OF EE1-6	
	DETAILS	BY	Kathl Andreasen	CHECKED			Baldev S. Dehal	POST MILE					77.3408
	QUANTITIES	BY	Baldev S. Dehal	CHECKED			Tech Ngov	DISREGARD PRINTS BEARING EARLIER REVISION DATES					10/23/07 10/28/09 1/16/08 3/7/08 3/18/08 3/21/08 3/25/08 7/3/08 8/28/08
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0 1 2 3	CU 11340 EA 261511	REVISION DATES (PRELIMINARY STAGE ONLY)			SHEET OF			

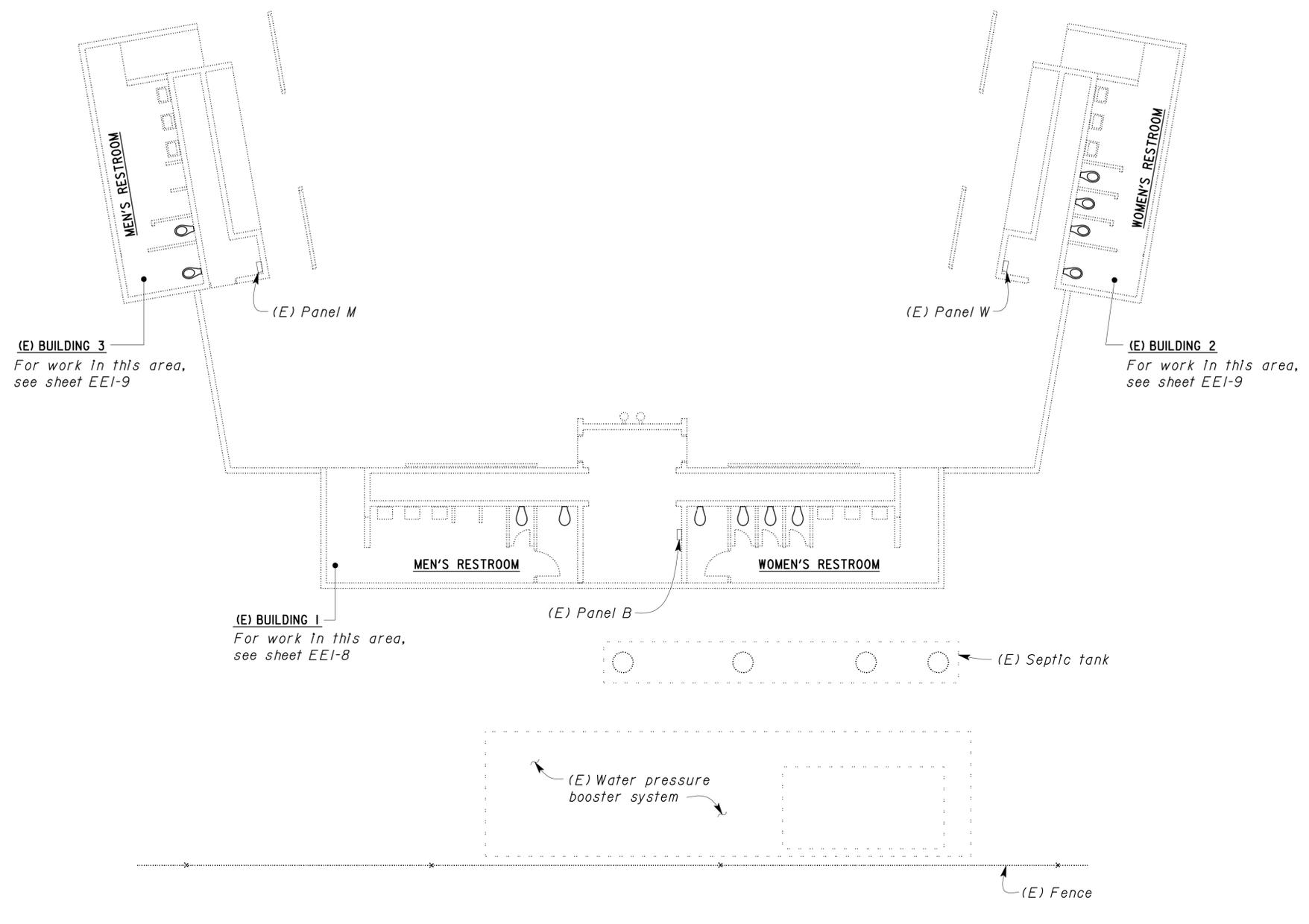
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	66	73

Reviewed by: <u>JOHN E WOODS</u> Approval date: 09-08-09 CSFM File No. 01-13-11-0021		10-28-08 DATE
2-8-10 PLANS APPROVAL DATE		

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CALIFORNIA STATE FIRE MARSHAL APPROVED

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PLAN
SCALE 1/8" = 1'-0"

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN BY <u>Baldev S. Dehal</u> CHECKED <u>Tech Ngov</u>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 58R0003R	SUNBEAM SAFETY ROADSIDE REST AREA SEWER TREATMENT SYSTEM	SHEET EE1-7	
			POST MILE		EASTBOUND	COMFORT STATION PLAN
			DISREGARD PRINTS BEARING EARLIER REVISION DATES →			REVISION DATES (PRELIMINARY STAGE ONLY) 3/7/08 3/7/08 3/25/08 7/3/08 8/28/08 10/28/08

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3

CU 11340
EA 261511

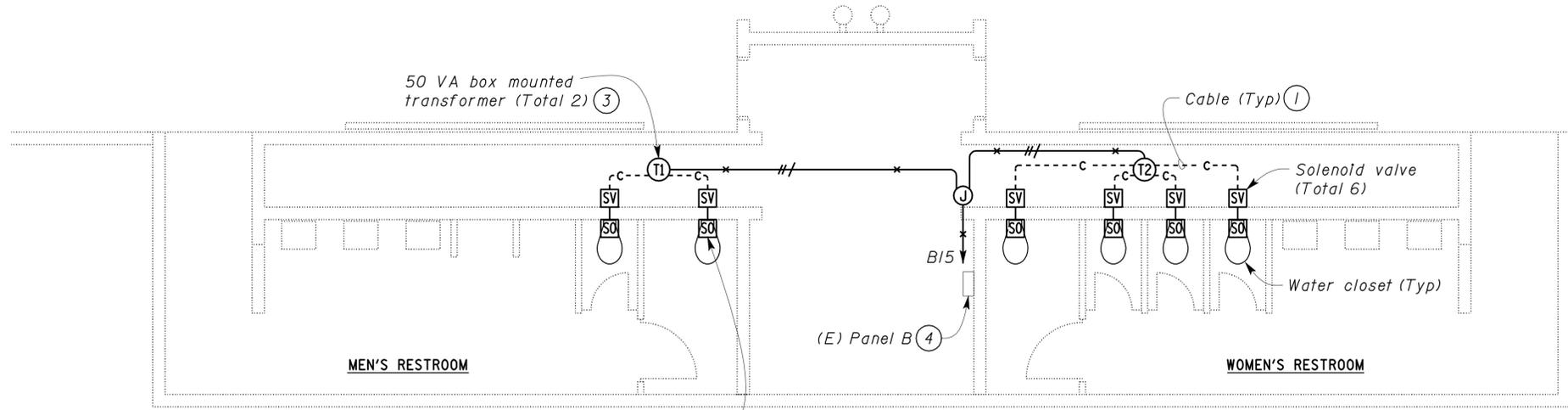
DOES SD Imperial Rev. 1/07

11-FEB-2010 05:35
ee1_07.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	67	73

CALIFORNIA STATE FIRE MARSHAL APPROVED Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by: <u>JOHN E WOODS</u> Approval date: <u>09-08-09</u> CSFM File No. 01-13-11-0021		
Registered Electrical Engineer DATE: <u>10-28-08</u> PLANS APPROVAL DATE: <u>2-8-10</u>		

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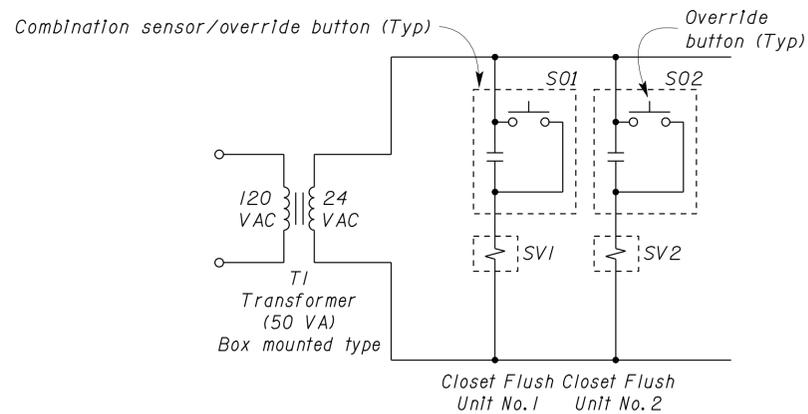
MEN'S RESTROOM

WOMEN'S RESTROOM

PLAN
 SCALE 1/4" = 1'-0"

- General Notes:**
- Schematic and detail of sensor operated water closet is shown. Installation and wiring of all components shall be per manufacturer's recommendations and shall be easily accessible for maintenance purposes.
 - For exact location of solenoid valve, see Mechanical plans.
 - Electricians, plumbers, tile setters, and other trades involved with the installation, shall coordinate their work for proper installation.

- Notes:**
- All cable type and length shall be provided by the sensor operated water closet manufacturer.
 - Schematic for transformer T1 in Men's shown, T2 similar.
 - Transformer shall be installed on the wall in Plumbing Room, behind fixture.
 - Modify panel directory.



WATER CLOSET SENSOR SCHEMATIC
 NO SCALE

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN BY <u>Baldev S. Dehal</u> CHECKED <u>Tech Ngov</u>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 58R0003R	SUNBEAM SAFETY ROADSIDE REST AREA SEWER TREATMENT SYSTEM		SHEET EE1-8					
			POST MILE	EASTBOUND	BUILDING NO. 1 FIXTURE SENSOR PLAN						
			REVISION DATES (PRELIMINARY STAGE ONLY)								
DETAILS BY <u>Kathl Andreasen</u> CHECKED <u>Baldev S. Dehal</u>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 11340 EA 261511	DISREGARD PRINTS BEARING EARLIER REVISION DATES			SHEET OF					
QUANTITIES BY <u>Baldev S. Dehal</u> CHECKED <u>Tech Ngov</u>	0 1 2 3		3/7/08	3/7/08	3/28/08	3/25/08	7/3/08	8/25/08	8/28/08	10/28/08	

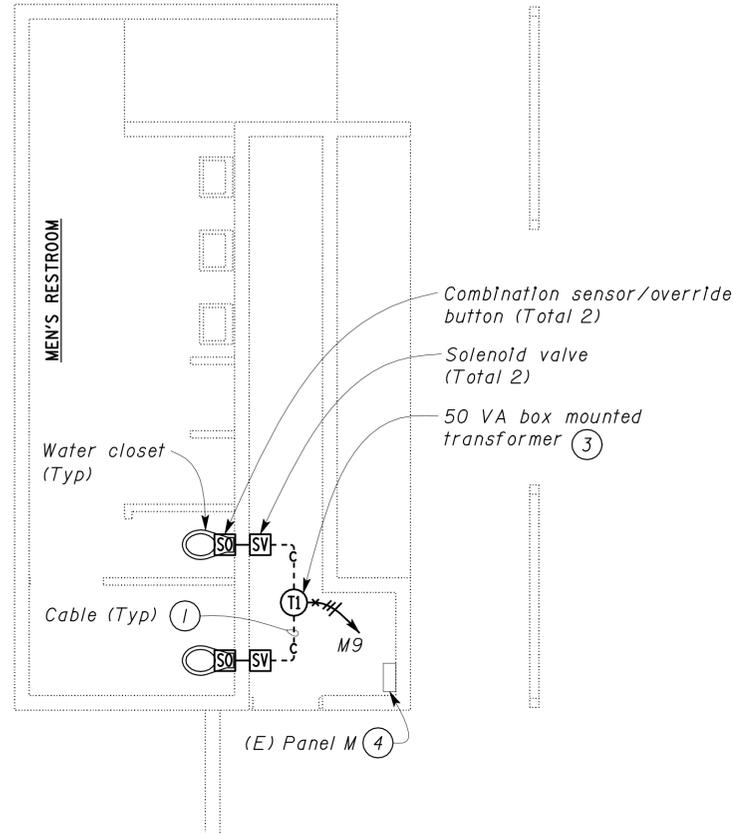
CALIFORNIA STATE FIRE MARSHAL APPROVED
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by: JOHN E WOODS
 Approval date: 09-08-09
 CSFM File No. 01-13-11-0021

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	68	73

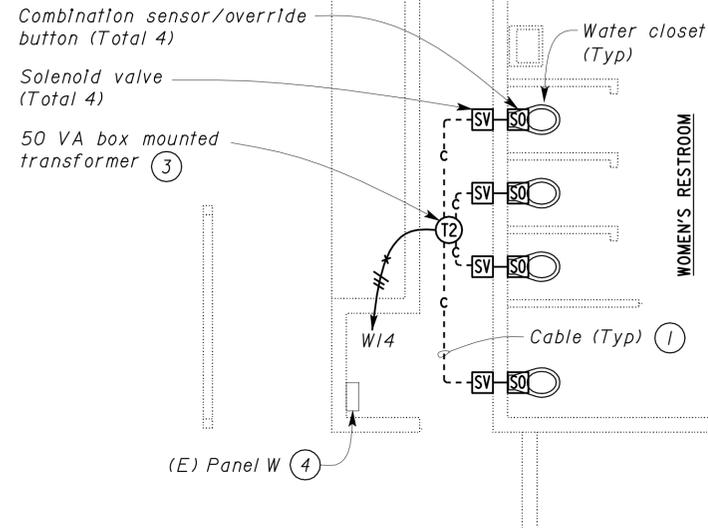
<u>Tech Ngo</u>		10-28-08
REGISTERED ELECTRICAL ENGINEER	DATE	

2-8-10
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



BUILDING 3 PLAN
 SCALE 1/4" = 1'-0"



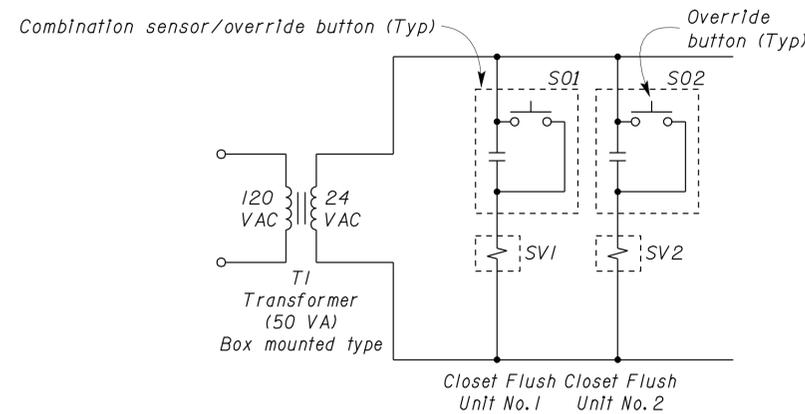
BUILDING 2 PLAN
 SCALE 1/4" = 1'-0"

General Notes:

- A. Schematic and detail of sensor operated water closet is shown. Installation and wiring of all components shall be per manufacturer's recommendations and shall be easily accessible for maintenance purposes.
- B. For exact location of solenoid valve, see Mechanical plans.
- C. Electricians, plumbers, tile setters, and other trades involved with the installation, shall coordinate their work for proper installation.

Notes:

- (1) All cable type and length shall be provided by the sensor operated water closet manufacturer.
- (2) Schematic for transformer T1 in Men's shown, T2 similar.
- (3) Transformer shall be installed on the wall in Plumbing Room, behind fixture.
- (4) Modify panel directory.



WATER CLOSET SENSOR SCHEMATIC (2)
 NO SCALE

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN	BY Baldev S. Dehal	CHECKED Tech Ngo
DETAILS	BY Kathl Andreasen	CHECKED Baldev S. Dehal
QUANTITIES	BY Baldev S. Dehal	CHECKED Tech Ngo

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE NO.	58R0003R
POST MILE	

SUNBEAM SAFETY ROADSIDE REST AREA SEWER TREATMENT SYSTEM
 EASTBOUND
 BUILDING NO. 2 AND 3
 FIXTURE SENSOR PLAN

SHEET EE1-9

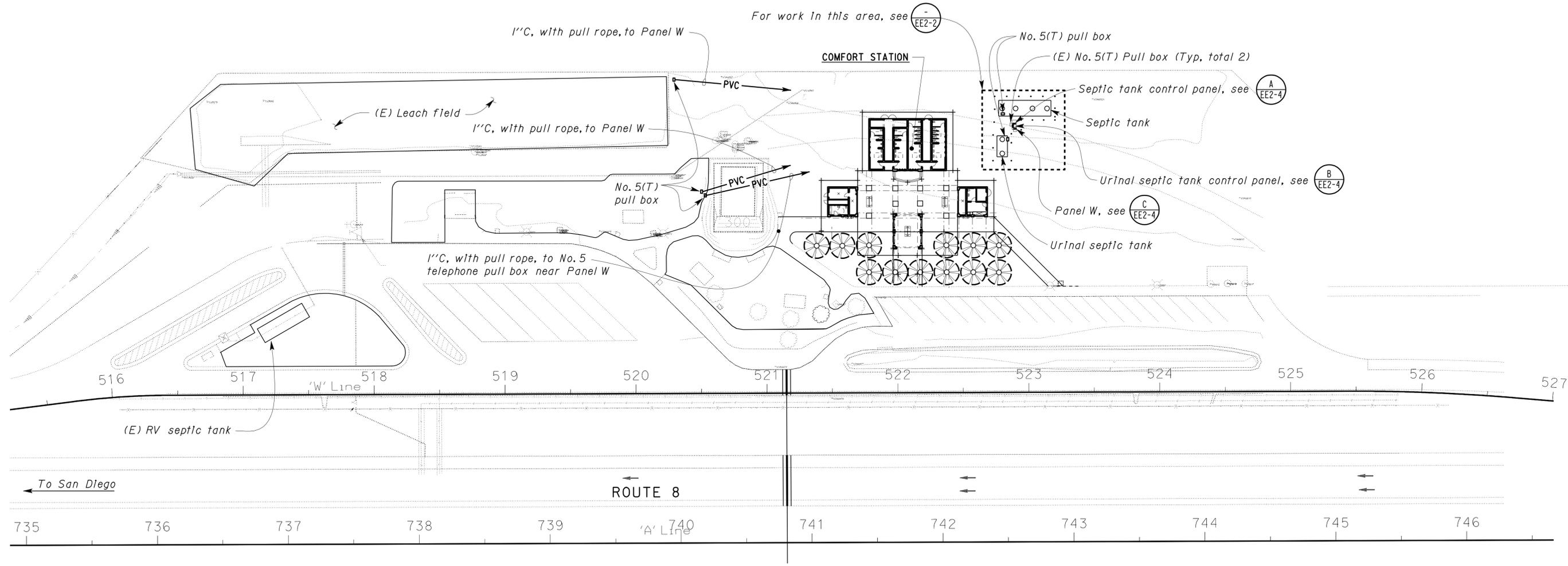
CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: *John E Woods*
JOHN E WOODS
 Approval date: 09-08-09
 CSFM File No. 01-13-11-0021

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R 31.3	70	73

<i>Tech Ngo</i>	10-28-08
REGISTERED ELECTRICAL ENGINEER	DATE

2-8-10
PLANS APPROVAL DATE

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PLAN
 SCALE 1" = 40'-0"

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DESIGN BY <i>Baldev S. Dehal</i> CHECKED <i>Tech Ngo</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 58R0003L	SUNBEAM SAFETY ROADSIDE REST AREA SEWER TREATMENT SYSTEM		SHEET EE2-1
			POST MILE	WESTBOUND	MODIFIED ELECTRICAL SITE PLAN	
			REVISION DATES (PRELIMINARY STAGE ONLY)			
DETAILS BY <i>Kathl Andreasen</i> CHECKED <i>Baldev S. Dehal</i>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 11340 EA 261511	DISREGARD PRINTS BEARING EARLIER REVISION DATES			SHEET OF
QUANTITIES BY <i>Baldev S. Dehal</i> CHECKED <i>Tech Ngo</i>	0 1 2 3		10/23/07 10/28/09 1/3/08 1/18/08 3/6/08 3/19/08 3/25/08 7/3/08 8/28/08			

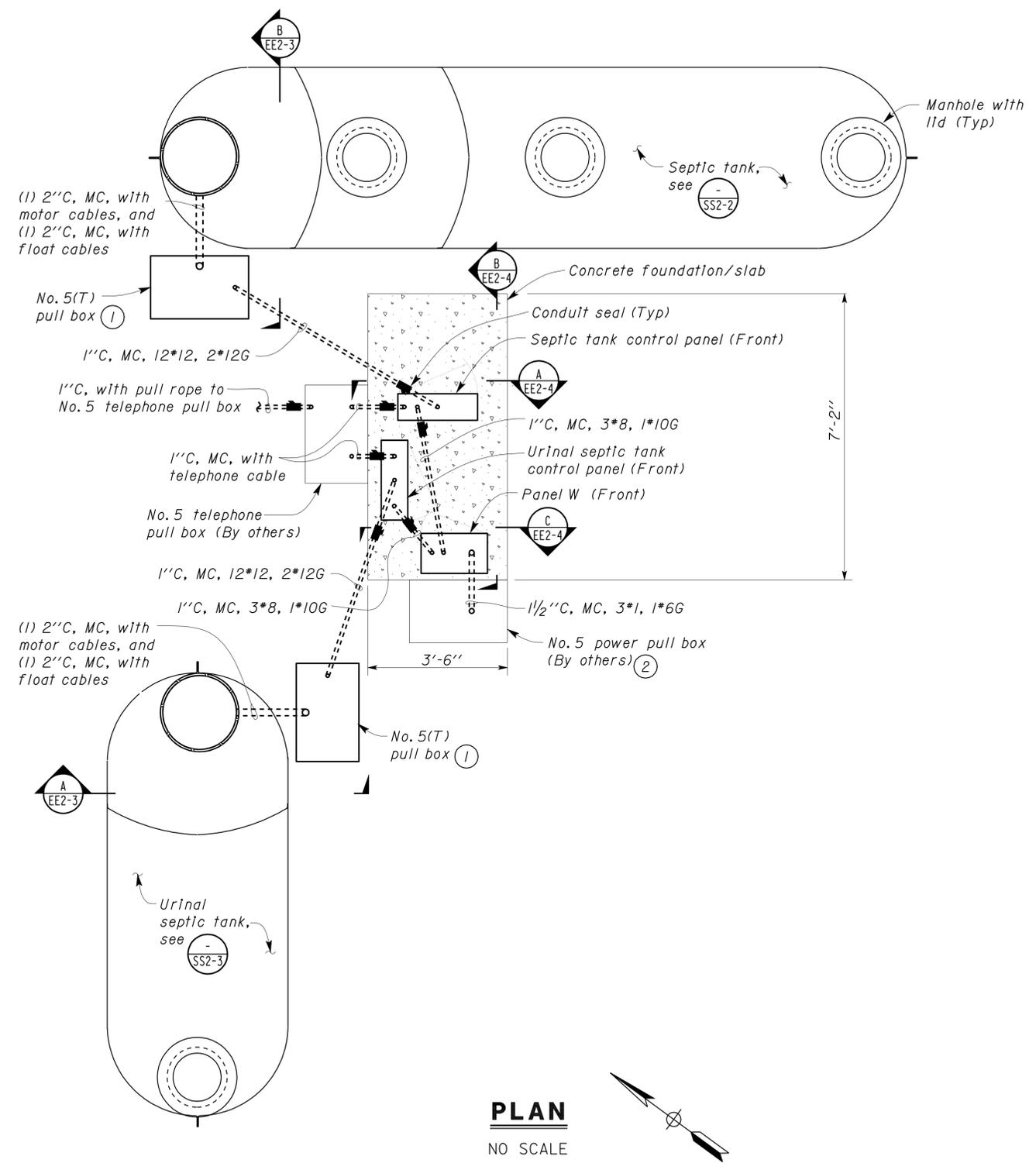
CALIFORNIA STATE FIRE MARSHAL
APPROVED
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 Reviewed by: *JOHN E WOODS*
 Approval date: 09-08-09
 CSFM File No. 01-13-11-0021

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	71	73

<i>Tech Ngo</i>		10-28-08
REGISTERED ELECTRICAL ENGINEER	DATE	

2-8-10
PLANS APPROVAL DATE

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- Notes:
- 1) Splice motor cables and float cables to conductors from control panel.
 - 2) Splice new conductors to conductors by others.

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN	BY	Baldev S. Dehal	CHECKED	Tech Ngo	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	58R0003L	SUNBEAM SAFETY ROADSIDE REST AREA SEWER TREATMENT SYSTEM	WESTBOUND	ENLARGED PARTIAL SITE PLAN NO. 1, URINAL SEPTIC TANK & SEPTIC TANK DETAILS	SHEET EE2-2								
	DETAILS	BY	Kathl Andreasen	CHECKED			Baldev S. Dehal	POST MILE												
	QUANTITIES	BY	Baldev S. Dehal	CHECKED			Tech Ngo	REVISION DATES (PRELIMINARY STAGE ONLY)												
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0	1	2	3	CU 11340 EA 261511	DISREGARD PRINTS BEARING EARLIER REVISION DATES	10/29/07	8/28/08	10/28/08	1/4/08	1/16/08	3/5/08	3/19/08	3/25/08	7/3/08	SHEET OF

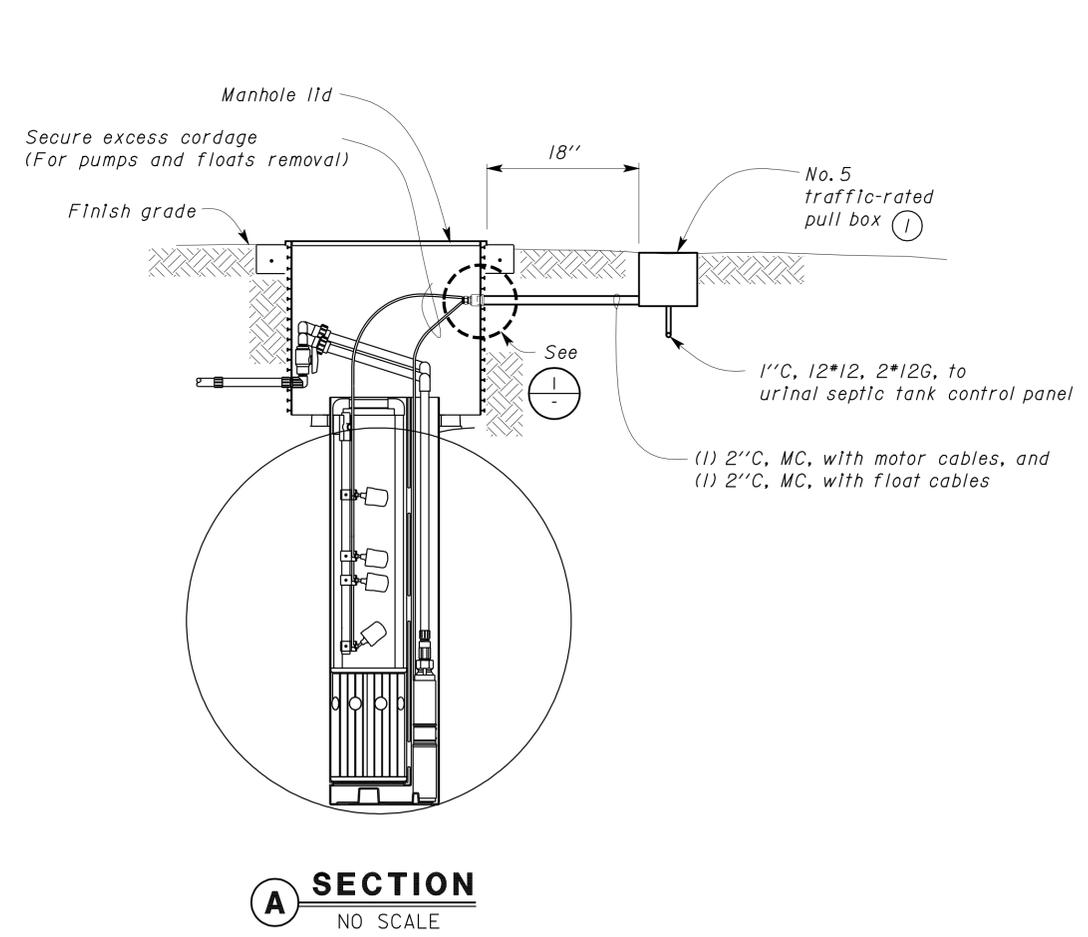
CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: *John E Woods*
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 CSFM File No. 01-13-11-0021

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	72	73

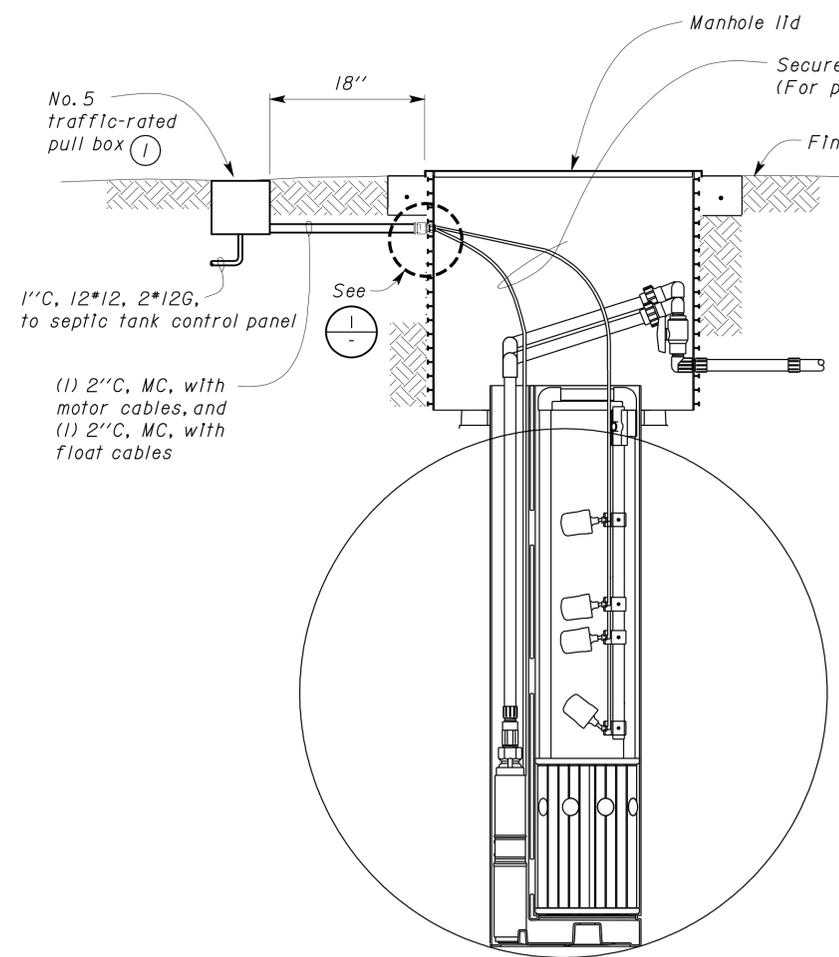
<i>Tech Ngo</i>	10-28-08	REGISTERED PROFESSIONAL ENGINEER TECH NGOV No. E 14521 Exp. 6-30-10 ELEC STATE OF CALIFORNIA
REGISTERED ELECTRICAL ENGINEER	DATE	
2-8-10 PLANS APPROVAL DATE		

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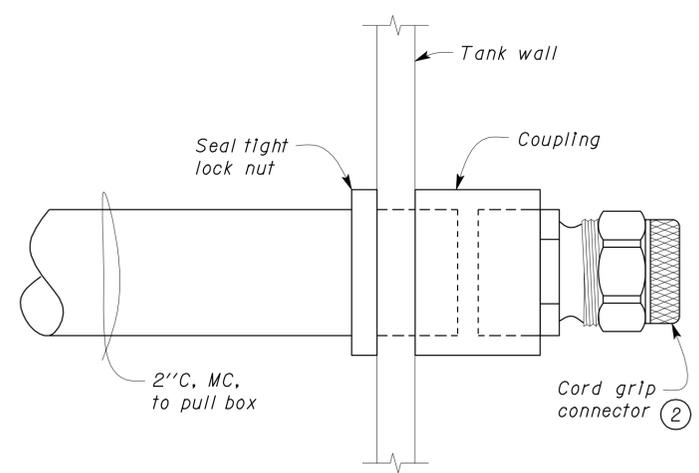
- Notes:
- For pull box detail, see .
 - Provide correct size for number of cables.



A SECTION
NO SCALE



B SECTION
NO SCALE



1 DETAIL
NO SCALE

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DESIGN	BY	Baldev S. Dehal	CHECKED	Tech Ngov	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	58R0003L	SUNBEAM SAFETY ROADSIDE REST AREA SEWER TREATMENT SYSTEM	WESTBOUND	URINAL SEPTIC TANK AND SEPTIC TANK DETAILS	SHEET EE2-3	
	DETAILS	BY	Kathl Andreasen	CHECKED			Baldev S. Dehal	POST MILE					
	QUANTITIES	BY	Baldev S. Dehal	CHECKED			Tech Ngov	REVISION DATES (PRELIMINARY STAGE ONLY)					
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0 1 2 3	CU 11340 EA 261511	DISREGARD PRINTS BEARING EARLIER REVISION DATES			10/29/07 8/28/08 10/28/08 1/4/08 1/18/08 3/7/08 3/19/08 3/25/08 7/3/08	SHEET	OF	

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	Imp	8	R31.3	73	73

2-8-10	10-28-08
PLANS APPROVAL DATE	DATE

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CALIFORNIA STATE FIRE MARSHAL APPROVED

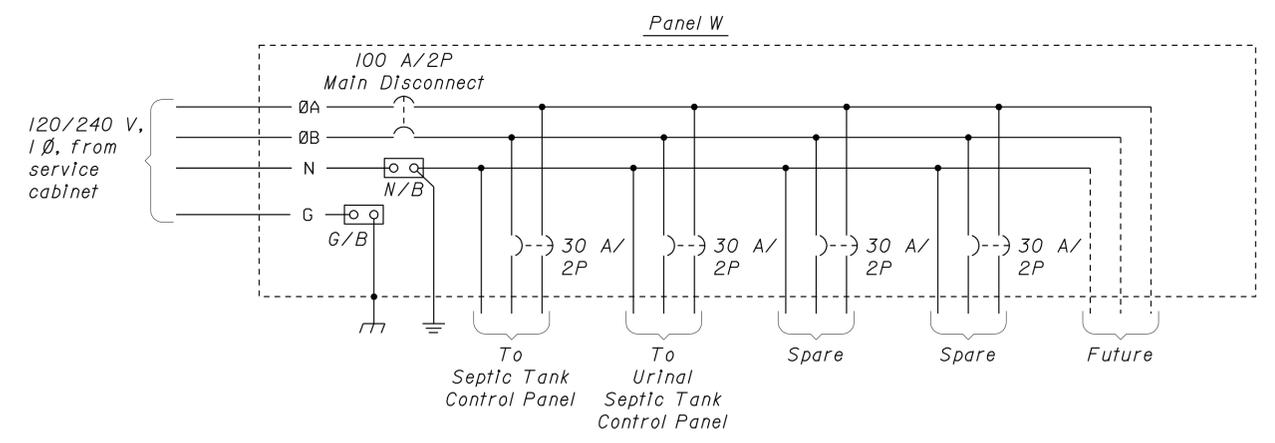
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Reviewed by: *John E Woods*
 Approval date: 09-08-09
 CSFM File No. 01-13-11-0021

NAMEPLATE SCHEDULE *

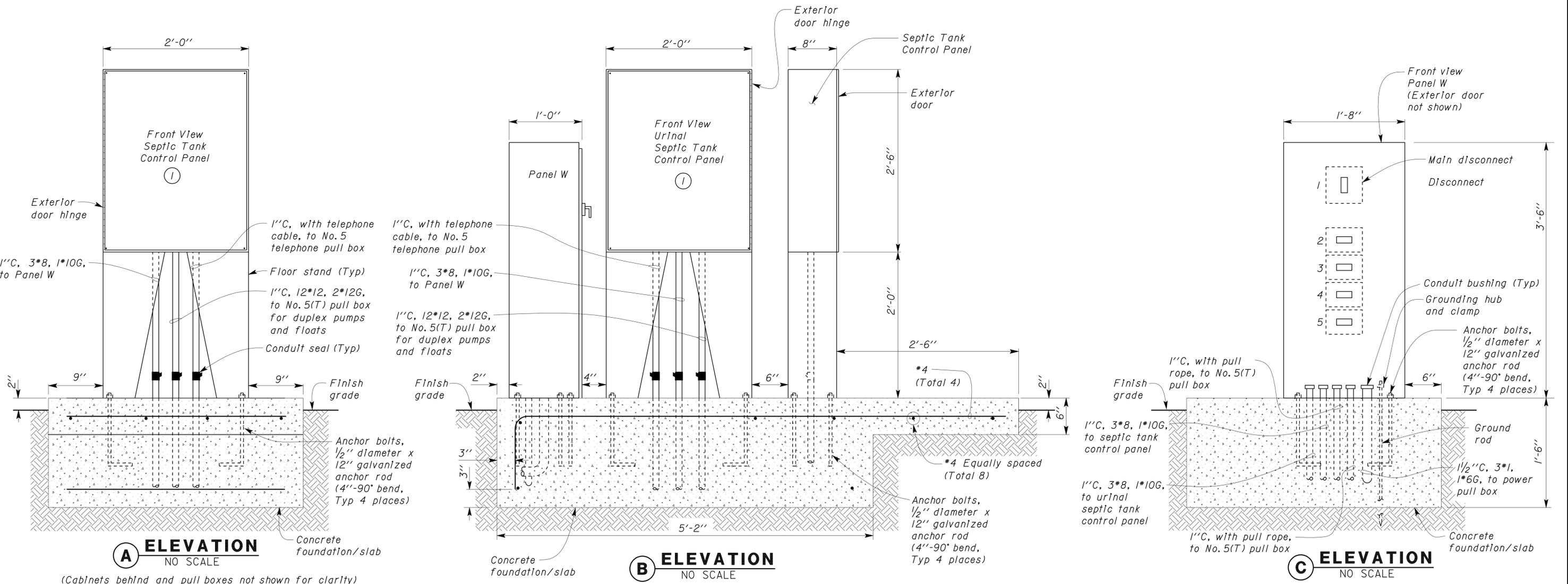
ITEM NO.	INSCRIPTION	LETTER HEIGHT
1	MAIN DISCONNECT	1/8"
2	SEPTIC TANK DISCONNECT	1/8"
3	URINAL SEPTIC TANK DISCONNECT	1/8"
4	SPARE	1/8"
5	SPARE	1/8"
6	PANEL W, 120/240 VOLT, 1-PHASE, 3-WIRE	1/4"

*Nameplate No. 6 shall be mounted on the exterior door of Panel E and other nameplates shall be mounted adjacent to each device it is identifying.



POWER SCHEMATIC

Note:
 (1) Control panel shall be supplied by effluent turbine duplex pump system supplier. If control panel supplied is smaller than as shown, Contractor shall install the smaller cabinet inside the cabinet as shown.



SEPTIC TANK CONTROL PANEL, URINAL SEPTIC TANK CONTROL PANEL AND PANEL W

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN BY <i>Baldev S. Dehal</i> CHECKED <i>Tech Ngov</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 58R0003L	SUNBEAM SAFETY ROADSIDE REST AREA SEWER TREATMENT SYSTEM	SHEET EE2-4
			POST MILE WESTBOUND		
			URINAL SEPTIC TANK, SEPTIC TANK AND PANEL W DETAILS		
DETAILS BY <i>Kathl Andreasen</i> CHECKED <i>Baldev S. Dehal</i>	CU 11340 EA 261511	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF	
QUANTITIES BY <i>Baldev S. Dehal</i> CHECKED <i>Tech Ngov</i>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	11/7/07 11/15/07 1/22/08 1/17/08 3/7/08 3/19/08 3/25/08 7/3/08 8/28/08 10/28/08		