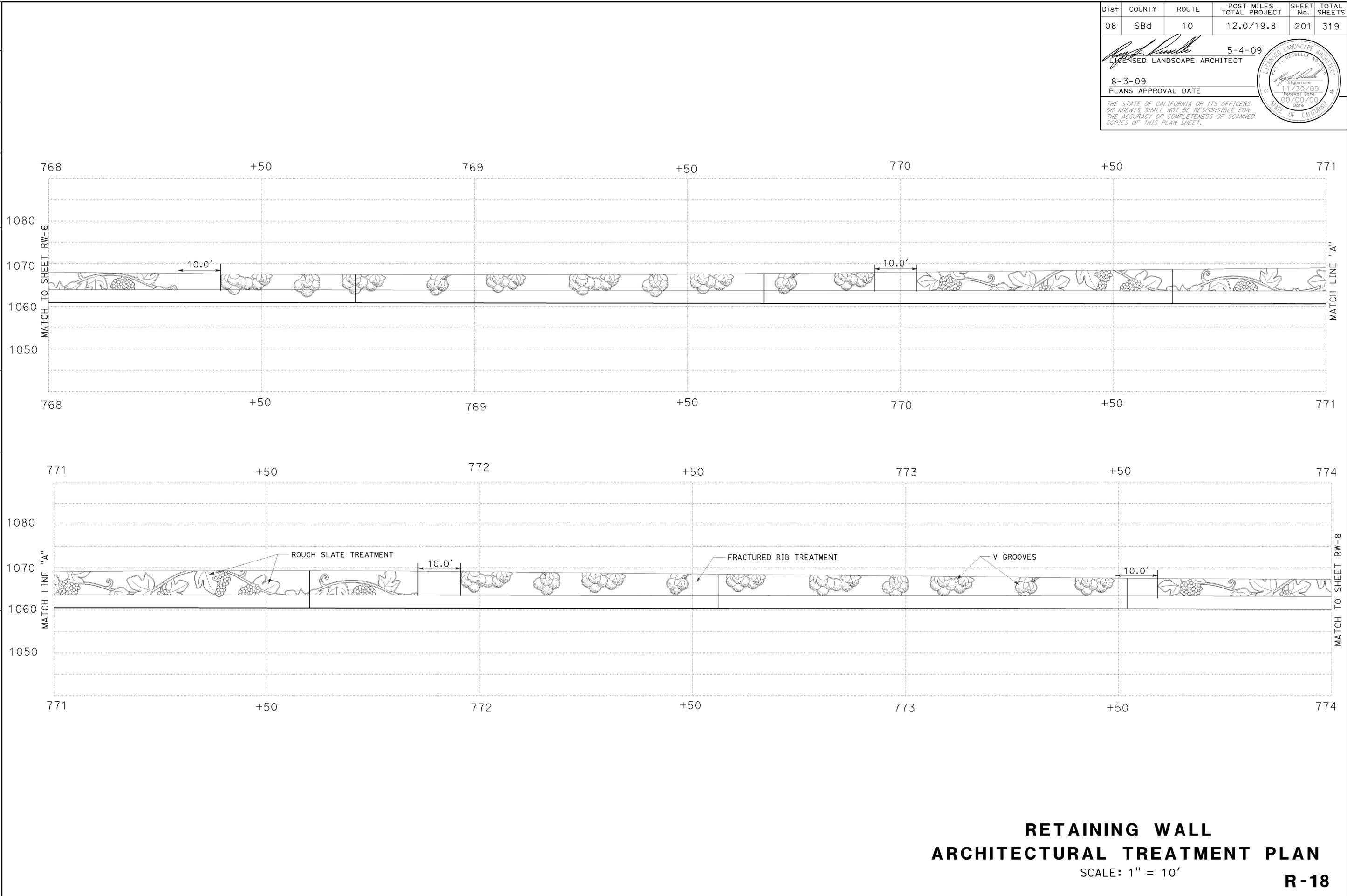


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	12.0/19.8	201	319

5-4-09
 LICENSED LANDSCAPE ARCHITECT
 8-3-09
 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.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
 RAY DESSELLE
 CHARLES MOFFETT
 BILL FLEMING
 CALCULATED/DESIGNED BY
 CHECKED BY
 REVISED BY
 DATE REVISED



RETAINING WALL
ARCHITECTURAL TREATMENT PLAN
 SCALE: 1" = 10'
R-18

LAST REVISION | DATE PLOTTED => 06-AUG-2009
 05-04-09 TIME PLOTTED => 11:44

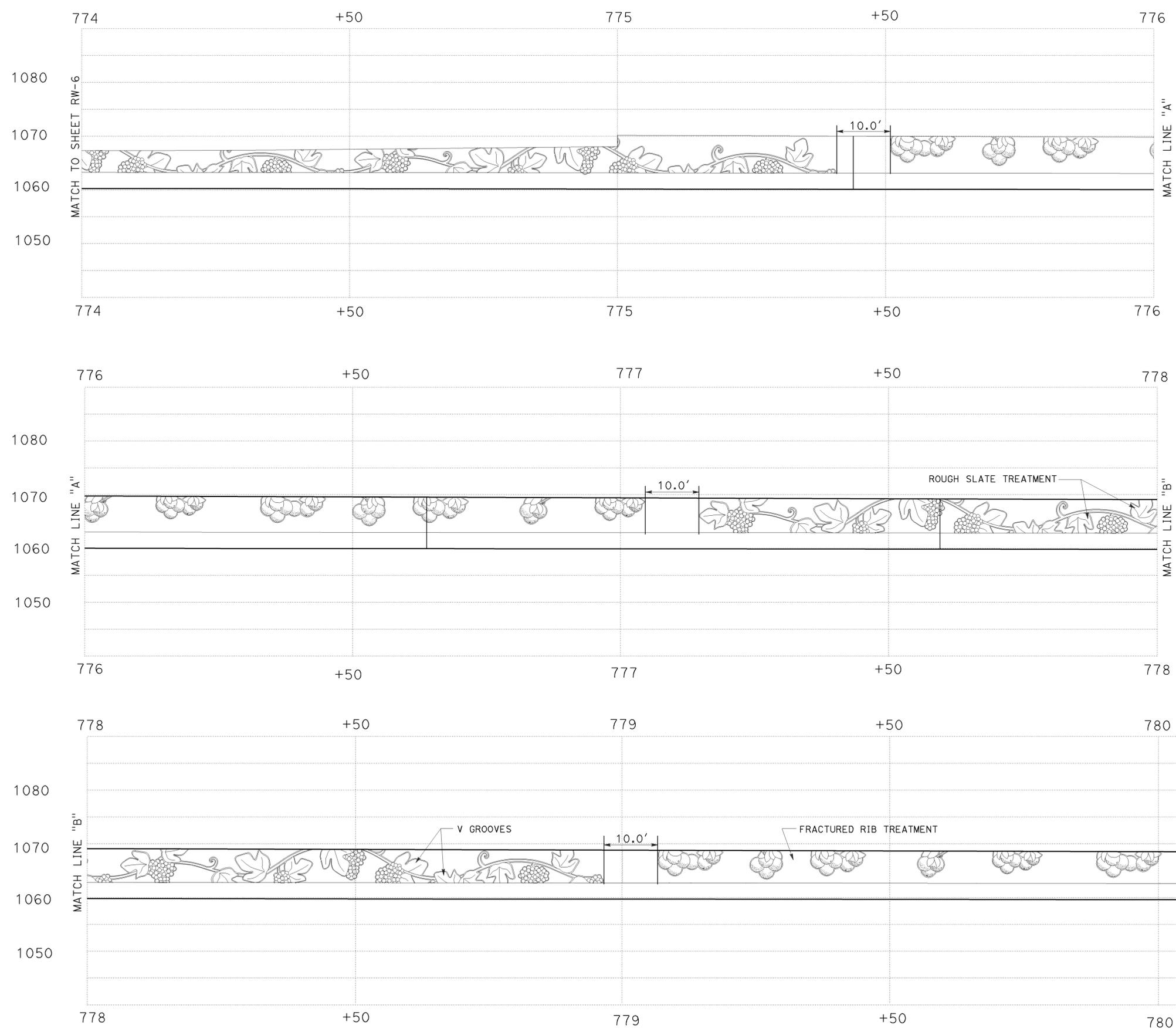
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT
 RAY DESSELLE

CALCULATED/DESIGNED BY
 CHECKED BY

CHARLES MOFFETT
 BILL FLEMING

REVISED BY
 DATE REVISED



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	12.0/19.8	202	319

5-4-09
 LICENSED LANDSCAPE ARCHITECT

8-3-09
 PLANS APPROVAL DATE

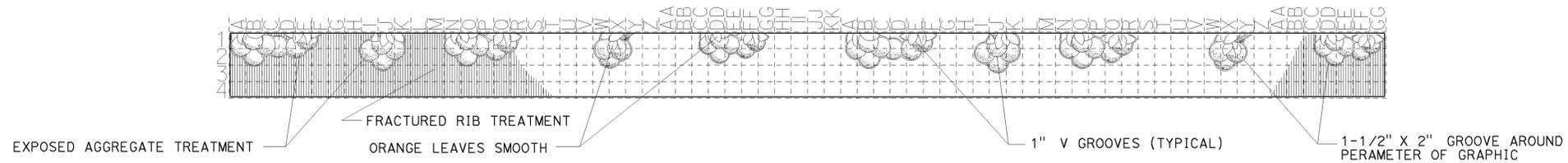
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



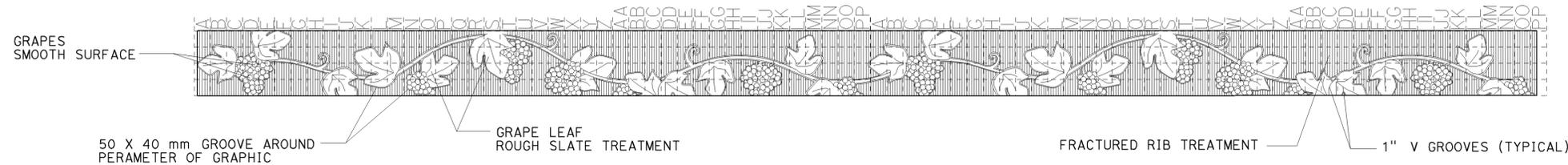
**RETAINING WALL
 ARCHITECTURAL TREATMENT PLAN
 R-19**

SCALE: 1" = 10'

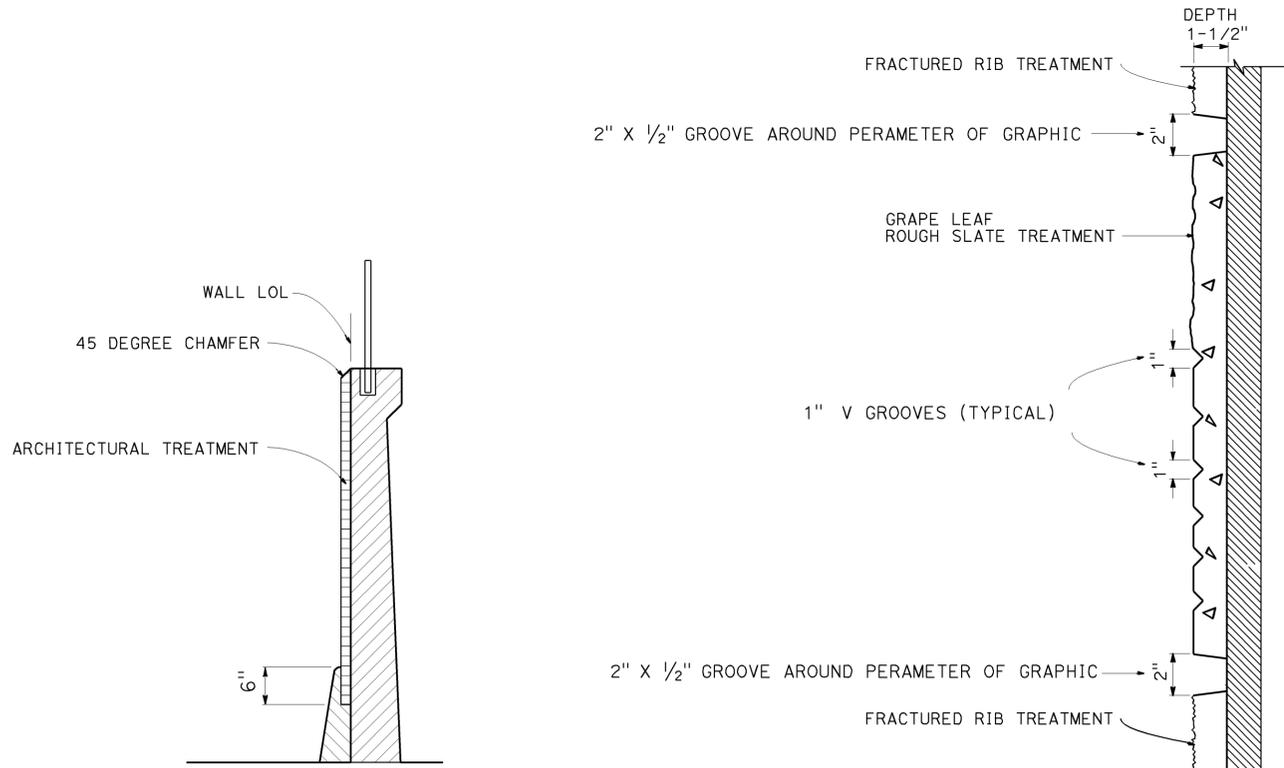
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	12.0/19.8	203	319
			5-4-09		
			8-3-09		
			PLANS APPROVAL DATE		
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					



ORANGE GRAPHIC MODULE

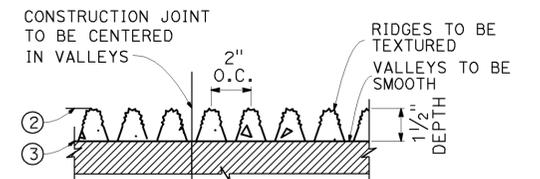


GRAPEVINE GRAPHIC MODULE



TYPICAL SECTION

GRAPHIC SECTION



FRACTURED RIB TEXTURE

WALL TREATMENT DETAILS
NO SCALE

R-20

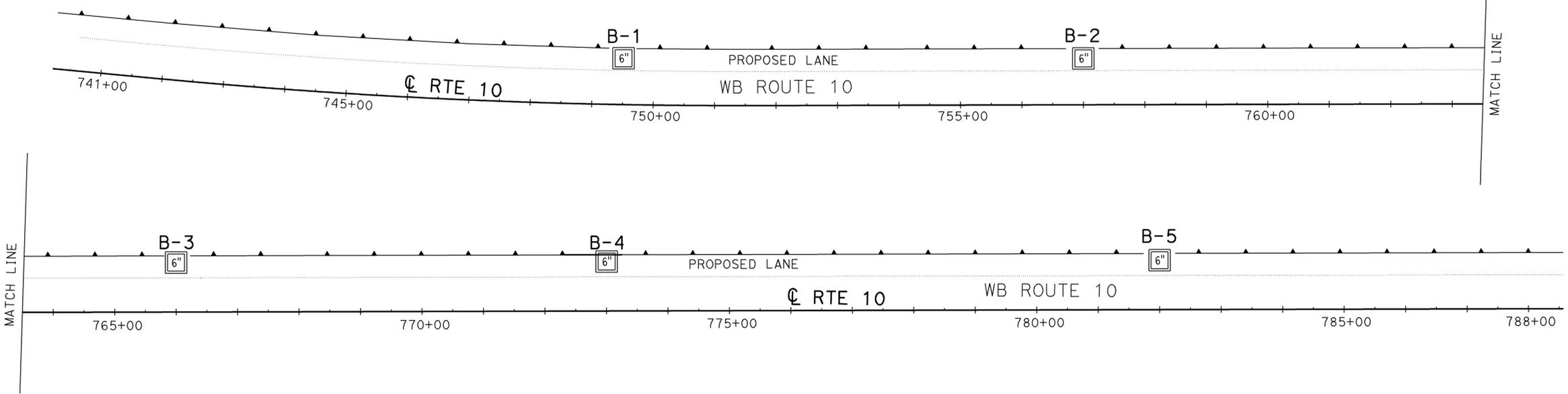
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	SENIOR LANDSCAPE ARCHITECT	DESIGNED BY	REVISOR	DATE
Caltrans LANDSCAPE ARCHITECTURE	RAY DESSELLE	CHECKED BY	CHARLES MOFFETT	BILL FLEMING

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	10	12.0/19.8	204	319

Brian Gutierrez 6-18-08
REGISTERED CIVIL ENGINEER
8-3-09
PLANS APPROVAL DATE
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This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, & Presentation Manual (June 2007).



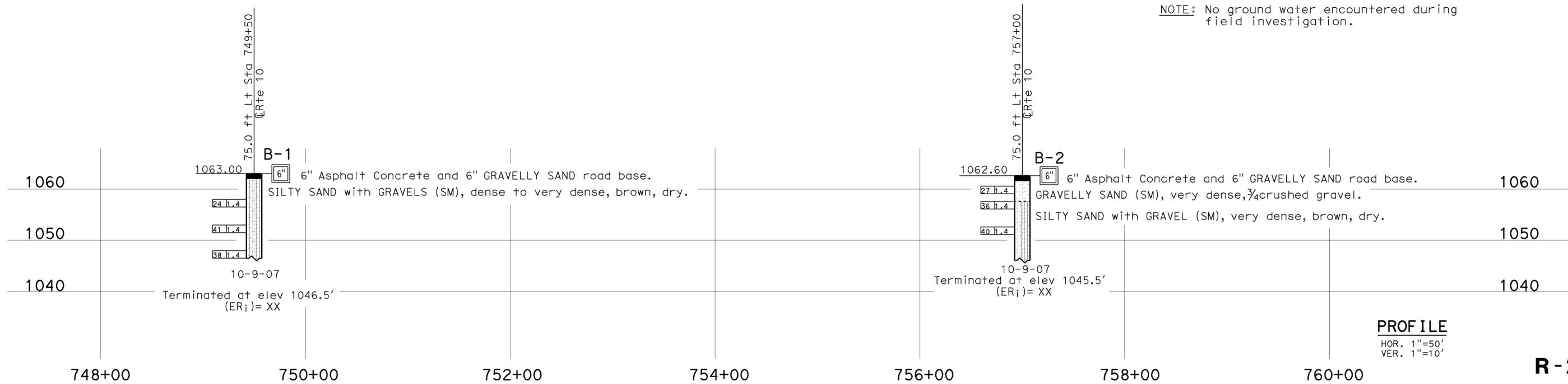
BENCH MARK

The elevations have been provided by District 11 Design.

PLAN

1" = 100'

NOTE: No ground water encountered during field investigation.



PROFILE

HOR. 1"=50'
VER. 1"=10'

R-21

ENGINEERING SERVICES		GEOTECHNICAL SERVICES		STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		BRIDGE NO.		RETAINING WALL	
FUNCTIONAL SUPERVISOR		DRAWN BY: F. Nguyen 12/07		DEPARTMENT OF TRANSPORTATION		STRUCTURE DESIGN		POST MILES		LOG OF TEST BORINGS 1 OF 4	
NAME: XX		CHECKED BY: XX		FIELD INVESTIGATION BY: B. Gutierrez		DESIGN BRANCH		17.8/18.9		REVISION DATES	
065 CIVIL LOG OF TEST BORINGS SHEET		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		CU 08 EA 497500		DISREGARD PRINTS BEARING EARLIER REVISION DATES		07-24-08 06-18-08		SHEET OF	

USERNAME => hnmact In DATE PLOTTED => 06-AUG-2009 TIME PLOTTED => 10:00

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	10	12.0/19.8	205	319

Brian Gutierrez 6-18-08
REGISTERED CIVIL ENGINEER

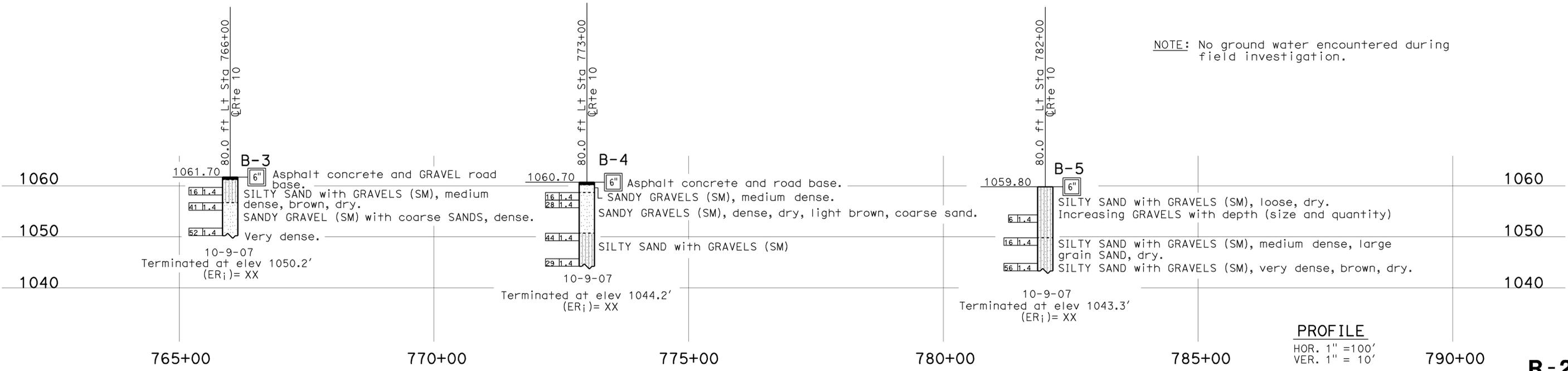
8-3-09
PLANS APPROVAL DATE

Brian Gutierrez
No. C66258
Exp. 06-30-10
CIVIL
STATE OF CALIFORNIA

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This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, & Presentation Manual (June 2007).

FOR PLAN VIEW, SEE
"LOG OF TEST BORINGS 1 OF 4"



ENGINEERING SERVICES		GEOTECHNICAL SERVICES		STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		BRIDGE NO.		RETAINING WALL	
FUNCTIONAL SUPERVISOR		DRAWN BY: F. Nguyen 12/07		DEPARTMENT OF TRANSPORTATION		STRUCTURE DESIGN		POST MILES		LOG OF TEST BORINGS 2 OF 4	
NAME: XX		CHECKED BY: XX		B. Gutierrez		DESIGN BRANCH		17.8/18.9		REVISION DATES	
065 CIVIL LOG OF TEST BORINGS SHEET		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3		CU 08 EA 497500		DISREGARD PRINTS BEARING EARLIER REVISION DATES		SHEET OF	

USERNAME => hmgact1n DATE PLOTTED => 06-AUG-2009 TIME PLOTTED => 10:00

Brian Gutierrez 6-18-08
 REGISTERED CIVIL ENGINEER
 8-3-09
 PLANS APPROVAL DATE
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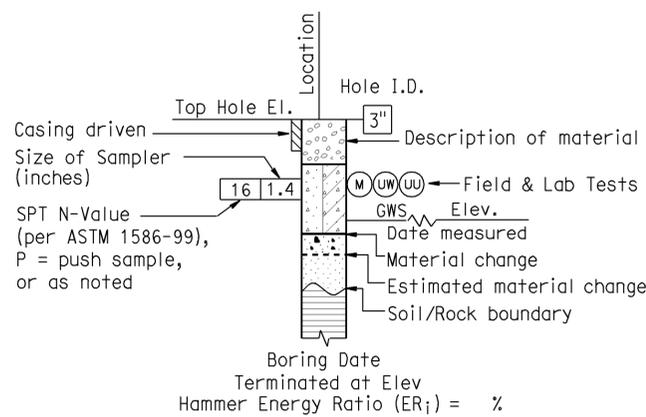
CEMENTATION	
Description	Criteria
Weak	Crumbles or breaks with handling or little finger pressure.
Moderate	Crumbles or breaks with considerable finger pressure.
Strong	Will not crumble or break with finger pressure.

CONSISTENCY OF COHESIVE SOILS				
Description	Unconfined Compressive Strength (tsf)	Pocket Penetrometer Measurement (tsf)	Torvane Measurement (tsf)	Field Approximation
Very Soft	< 0.25	< 0.25	< 0.12	Easily penetrated several inches by fist
Soft	0.25 to 0.50	0.25 to 0.50	0.12 to 0.25	Easily penetrated several inches by thumb
Medium Stiff	0.50 to 1.0	0.50 to 1.0	0.25 to 0.50	Penetrated several inches by thumb with moderate effort
Stiff	1 to 2	1 to 2	0.50 to 1.0	Readily indented by thumb but penetrated only with great effort
Very Stiff	2 to 4	2 to 4	1.0 to 2.0	Readily indented by thumbnail
Hard	> 4.0	> 4.0	> 2.0	Indented by thumbnail with difficulty

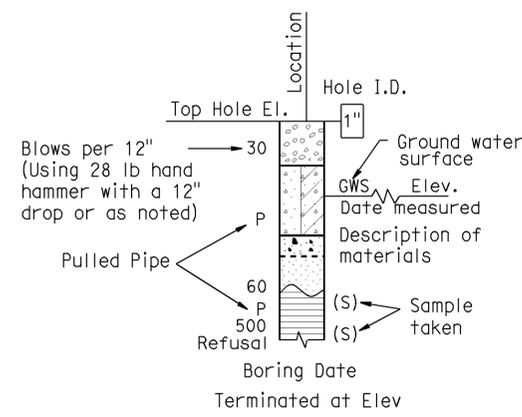
BOREHOLE IDENTIFICATION		
Symbol	Hole Type	Description
	A	Auger Boring
	R	Rotary drilled boring
	P	Rotary percussion boring (air)
	R	Rotary drilled diamond core
	HD	Hand driven (1-inch soil tube)
	HA	Hand Auger
	D	Dynamic Cone Penetration Boring
	CPT	Cone Penetration Test (ASTM D 5778-95)
	O	Other

Note: Size in inches.

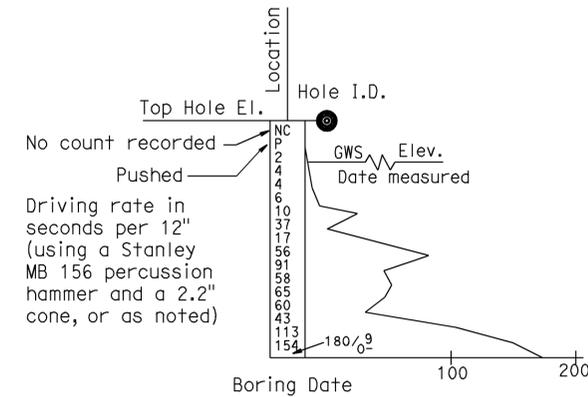
PLASTICITY OF FINE-GRAINED SOILS	
Description	Criteria
Nonplastic	A 1/8-inch thread cannot be rolled at any water content.
Low	The thread can barely be rolled and the lump cannot be formed when drier than the plastic limit.
Medium	The thread is easy to roll and not much time is required to reach the plastic limit. The thread cannot be rerolled after reaching the plastic limit. The lump crumbles when drier than the plastic limit.
High	It takes considerable time rolling and kneading to reach the plastic limit. The thread can be rerolled several times after reaching the plastic limit. The lump can be formed without crumbling when drier than the plastic limit.



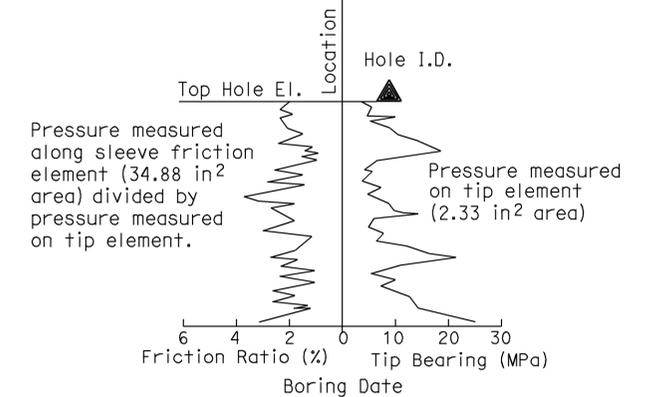
ROTARY BORING



HAND BORING



DYNAMIC CONE PENETRATION BORING



CONE PENETRATION TEST (CPT) SOUNDING

R-23

ENGINEERING SERVICES	GEOTECHNICAL SERVICES	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH	BRIDGE NO.	RETAINING WALL
	PREPARED BY: F. Nguyen 12/07			POST MILE 17.8/18.9	
GS LOT8 SOIL LEGEND	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 08 EA 497500	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET OF

USERNAME => frrmact In DATE PLOTTED => 06-AUG-2009 TIME PLOTTED => 10:00

Brian Gutierrez 6-18-08
 REGISTERED CIVIL ENGINEER
 No. C66258
 Exp. 06-30-10
 CIVIL
 STATE OF CALIFORNIA
 8-3-09
 PLANS APPROVAL DATE
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GROUP SYMBOLS AND NAMES			
Graphic/Symbol	Group Names	Graphic/Symbol	Group Names
	GW Well-graded GRAVEL		CL Lean CLAY Lean CLAY with SAND Lean CLAY with GRAVEL SANDY lean CLAY SANDY lean CLAY with GRAVEL GRAVELLY lean CLAY GRAVELLY lean CLAY with SAND
	GP Poorly graded GRAVEL Poorly graded GRAVEL with SAND		
	GW-GM Well-graded GRAVEL with SILT Well-graded GRAVEL with SILT and SAND		CL-ML SILTY CLAY SILTY CLAY with SAND SILTY CLAY with GRAVEL SANDY SILTY CLAY SANDY SILTY CLAY with GRAVEL GRAVELLY SILTY CLAY GRAVELLY SILTY CLAY with SAND
	GW-GC Well-graded GRAVEL with CLAY (or SILTY CLAY) Well-graded GRAVEL with CLAY and SAND (or SILTY CLAY and SAND)		
	GP-GM Poorly graded GRAVEL with SILT Poorly graded GRAVEL with SILT and SAND		ML SILT SILT with SAND SILT with GRAVEL SANDY SILT SANDY SILT with GRAVEL GRAVELLY SILT GRAVELLY SILT with SAND
	GP-GC Poorly graded GRAVEL with CLAY (or SILTY CLAY) Poorly graded GRAVEL with CLAY and SAND (or SILTY CLAY and SAND)		
	GM SILTY GRAVEL SILTY GRAVEL with SAND		OL ORGANIC lean CLAY ORGANIC lean CLAY with SAND ORGANIC lean CLAY with GRAVEL SANDY ORGANIC lean CLAY SANDY ORGANIC lean CLAY with GRAVEL GRAVELLY ORGANIC lean CLAY GRAVELLY ORGANIC lean CLAY with SAND
	GC CLAYEY GRAVEL CLAYEY GRAVEL with SAND		
	GC-GM SILTY, CLAYEY GRAVEL SILTY, CLAYEY GRAVEL with SAND		OL ORGANIC SILT ORGANIC SILT with SAND ORGANIC SILT with GRAVEL SANDY ORGANIC SILT SANDY ORGANIC SILT with GRAVEL GRAVELLY ORGANIC SILT GRAVELLY ORGANIC SILT with SAND
	SW Well-graded SAND Well-graded SAND with GRAVEL		
	SP Poorly graded SAND Poorly graded SAND with GRAVEL		CH Fat CLAY Fat CLAY with SAND Fat CLAY with GRAVEL SANDY fat CLAY SANDY fat CLAY with GRAVEL GRAVELLY fat CLAY GRAVELLY fat CLAY with SAND
	SW-SM Well-graded SAND with SILT Well-graded SAND with SILT and GRAVEL		
	SW-SC Well-graded SAND with CLAY (or SILTY CLAY) Well-graded SAND with CLAY and GRAVEL (or SILTY CLAY and GRAVEL)		MH Elastic SILT Elastic SILT with SAND Elastic SILT with GRAVEL SANDY elastic SILT SANDY elastic SILT with GRAVEL GRAVELLY elastic SILT GRAVELLY elastic SILT with SAND
	SP-SM Poorly graded SAND with SILT Poorly graded SAND with SILT and GRAVEL		
	SP-SC Poorly graded SAND with CLAY (or SILTY CLAY) Poorly graded SAND with CLAY and GRAVEL (or SILTY CLAY and GRAVEL)		OH ORGANIC fat CLAY ORGANIC fat CLAY with SAND ORGANIC fat CLAY with GRAVEL SANDY ORGANIC fat CLAY SANDY ORGANIC fat CLAY with GRAVEL GRAVELLY ORGANIC fat CLAY GRAVELLY ORGANIC fat CLAY with SAND
	SM SILTY SAND SILTY SAND with GRAVEL		
	SC CLAYEY SAND CLAYEY SAND with GRAVEL		OH ORGANIC elastic SILT ORGANIC elastic SILT with SAND ORGANIC elastic SILT with GRAVEL SANDY ORGANIC elastic SILT SANDY ORGANIC elastic SILT with GRAVEL GRAVELLY ORGANIC elastic SILT GRAVELLY ORGANIC elastic SILT with SAND
	SC-SM SILTY, CLAYEY SAND SILTY, CLAYEY SAND with GRAVEL		
	PT PEAT		OL/OH ORGANIC SOIL ORGANIC SOIL with SAND ORGANIC SOIL with GRAVEL SANDY ORGANIC SOIL SANDY ORGANIC SOIL with GRAVEL GRAVELLY ORGANIC SOIL GRAVELLY ORGANIC SOIL with SAND

FIELD AND LABORATORY TESTING	
(C)	Consolidation (ASTM D 2435)
(CL)	Collapse Potential (ASTM D 5333)
(CP)	Compaction Curve (CTM 216)
(CR)	Corrosivity Testing (CTM 643, CTM 422, CTM 417)
(CU)	Consolidated Undrained Triaxial (ASTM D 4767)
(DS)	Direct Shear (ASTM D 3080)
(EI)	Expansion Index (ASTM D 4829)
(M)	Moisture Content (ASTM D 2216)
(OC)	Organic Content-% (ASTM D 2974)
(P)	Permeability (CTM 220)
(PA)	Particle Size Analysis (ASTM D 422)
(PI)	Plasticity Index (AASHTO T 90) Liquid Limit (AASHTO T 89)
(PL)	Point Load Index (ASTM D 5731)
(PM)	Pressure Meter
(PP)	Pocket Penetrometer
(R)	R-Value (CTM 301)
(SE)	Sand Equivalent (CTM 217)
(SG)	Specific Gravity (AASHTO T 100)
(SL)	Shrinkage Limit (ASTM D 427)
(SW)	Swell Potential (ASTM D 4546)
(TV)	Pocket Torvane
(UC)	Unconfined Compression-Soil (ASTM D 2166) Unconfined Compression-Rock (ASTM D 2938)
(UU)	Unconsolidated Undrained Triaxial (ASTM D 2850)
(UW)	Unit Weight (ASTM D 4767)
(VS)	Vane Shear (AASHTO T 223)

APPARENT DENSITY OF COHESIONLESS SOILS	
Description	SPT N ₆₀ (Blows / 12 inches)
Very loose	0 - 4
Loose	5 - 10
Medium Dense	11 - 30
Dense	31 - 50
Very Dense	> 50

MOISTURE	
Description	Criteria
Dry	Absence of moisture, dusty, dry to the touch
Moist	Damp but no visible water
Wet	Visible free water, usually soil is below water table

PERCENT OR PROPORTION OF SOILS	
Description	Criteria
Trace	Particles are present but estimated to be less than 5%
Few	5 to 10%
Little	15 to 25%
Some	30 to 45%
Mostly	50 to 100%

PARTICLE SIZE		
Description	Size	
Boulder	> 12"	
Cobble	3" to 12"	
Gravel	Coarse	3/4" to 3"
	Fine	No. 4 to 3/4"
Sand	Coarse	No. 10 to No. 4
	Medium	No. 40 to No. 10
	Fine	No. 200 to No. 40

R-24

ENGINEERING SERVICES		GEOTECHNICAL SERVICES		STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		BRIDGE NO.		ARETAINING WALL			
		PREPARED BY: F. Nguyen 12/07		DEPARTMENT OF TRANSPORTATION		STRUCTURE DESIGN		POST MILE 17.8/18.9		LOG OF TEST BORINGS 4 OF 4			
GS LOT8 SOIL LEGEND		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3		CU 08 EA 497500		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES		SHEET OF	

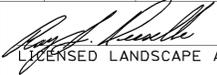
USERNAME => hrmact1n DATE PLOTTED => 06-AUG-2009 TIME PLOTTED => 10:00

NOTE: FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT DISTRICT OFFICE.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	12.0/19.8	208	319

ABBREVIATIONS

- | | |
|------------------------------|---------------------------------------|
| AMEND — amendment | MIN — minimum |
| B & B — balled and burlapped | NCN — no common name |
| DIA — diameter | NO. — number |
| EA — each | PKT — packet |
| LB — pound | PLT ESTB — plant establishment |
| OZ — ounce | Pvmt — pavement |
| FT — foot/feet | R/W — right of way |
| SQFT — square feet | SF — state furnished |
| CF — cubic feet | TRVD — traveled |
| MAX — maximum | TCE — temporary construction easement |
| CY — cubic yard | |


 LICENSED LANDSCAPE ARCHITECT
 8-3-09
 PLANS APPROVAL DATE

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PLANT LIST AND PLANTING SPECIFICATIONS

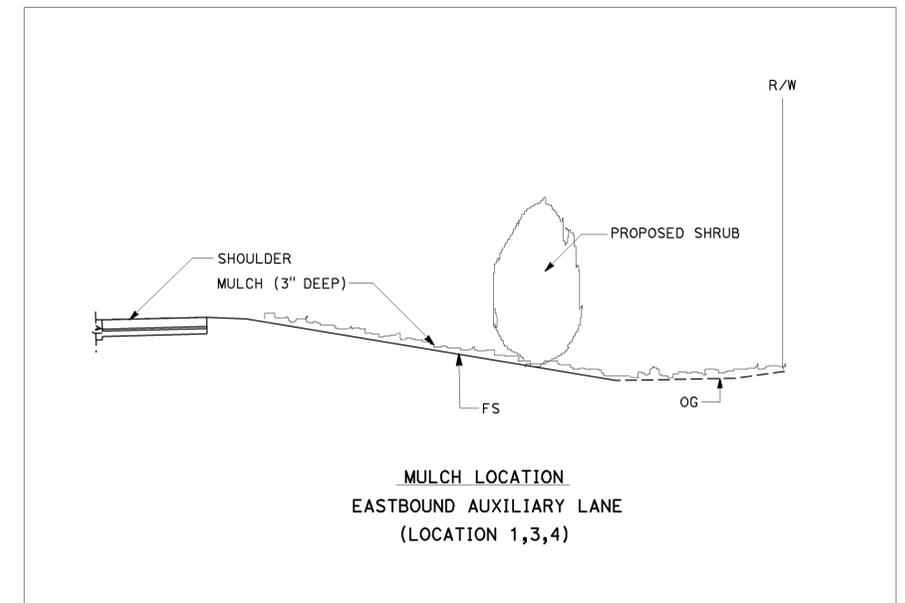
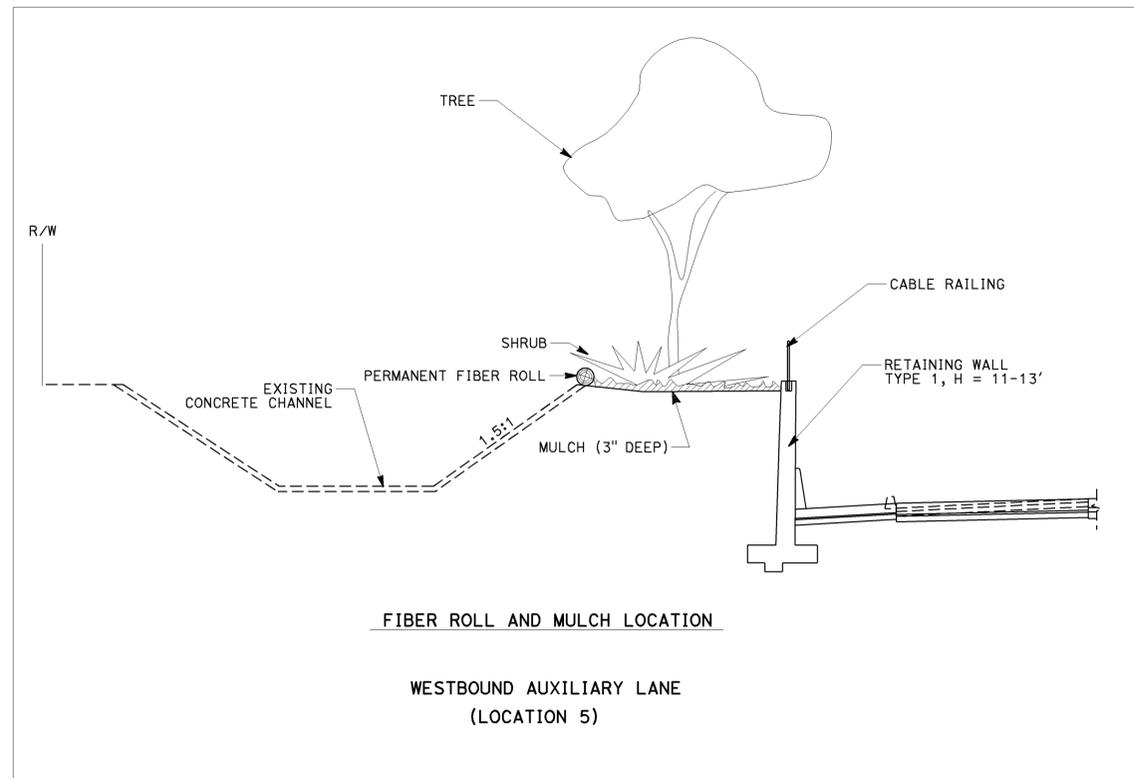
PLANT GROUP	PLANT No.	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY EACH	HOLE SIZE (INCH)		BASIN TYPE	IRON SULFATE	SOIL AMEND ①	COMMERCIAL FERTILIZER ①		BASIN MULCH ①	STAKING	PLANTING LIMITS						REMARKS	
							Dia	DEPTH				PLANTING	PLT ESTB			MINIMUM DISTANCE (Ft) FROM				ON CENTER (Ft)			
																TRVD WAY	PVMT	FENCE	WALL		PAVED DITCH		EARTH DITCH
B	1	⊖	<u>RHUS OVATA</u>	SUGAR BUSH	No. 5	2980	18	24	II	—	0.7 CF	0.4 LB	0.4 LB	1.35 CF	—	④	④	10	12	5	5'	SHRUB CENTER IN IN PLANTING AREA WIDTH ⑥	
	2	○	<u>BOUGAINVILLEA 'BARBARA KARST'</u>	BOUGAINVILLEA	No. 5	115	18	24	II	—	0.7 CF	0.4 LB	0.4 LB	1.35 CF	—	—	15'	15'	④	15	15	15'	SHRUB
	3	⊕	<u>BOUGAINVILLEA 'LAVENDER QUEEN'</u>	BOUGAINVILLEA	No. 5	263	18	24	II	—	0.7 CF	0.4 LB	0.4 LB	1.35 CF	—	—	12'	12'	④	12	12	12'	SHRUB
K	4	⊙	<u>JACARANDA MIMOSIFOLIA</u>	JACARANDA	24" BOX	156	36	48	II	—	2.70 CF	0.5 LB	0.5 LB	2.7 CF	—	④	—	25'	④	27	25	25'	CENTER IN PLANTING AREA WIDTH 1 1/2" CALIPER MIN ⑥

Underlined portions of botanical name indicate abbreviations used on Planting Plans.

APPLICABLE WHEN CIRCLED:

- ① - Quantities shown are "per plant" unless shown as SQFT or SQYD application rates.
- 2 - Sufficient to receive root ball.
- 3 - Does not apply to mulch areas.
- ④ - As shown on plans.
- 5 - Unless otherwise shown on plans.
- ⑥ - See detail.
- 7 - See Special Provisions.
- 8 - Location of plants to be determine by contractor

EXISTING PLANTING TO REMAIN AND BE MAINTAINED AS SHOWN ON THE PLANS.



PLANT LIST PL-1

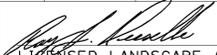
NOTES:

- FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT DISTRICT OFFICE.
- LOCATIONS OF UTILITY FACILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

LEGEND:

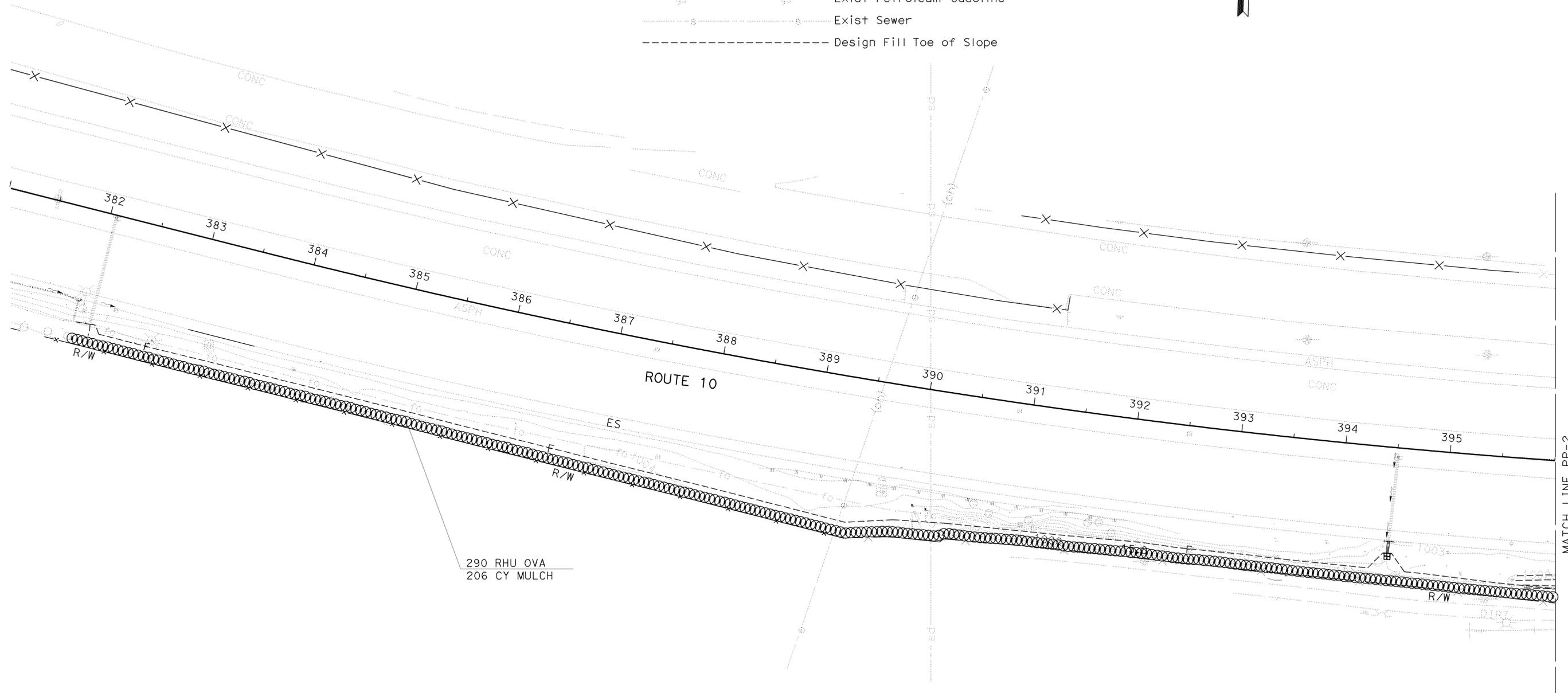
- (oh) ----- Exist Over Head Electrical
- sd ----- Exist Drainage Pipe
- fo ----- Exist Fiber Optic
- w ----- Exist Water
- g ----- Exist Natural Gas
- t ----- Exist Telephone
- e ----- Exist Electrical
- gs ----- Exist Petroleum Gasoline
- s ----- Exist Sewer
- Design Fill Toe of Slope

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	12.0/19.8	209	319


 LICENSED LANDSCAPE ARCHITECT
 8-3-09
 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.




STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	REVISOR	DATE
Caltrans LANDSCAPE ARCHITECTURE	CHARLES MOFFETT	
	RAY DESSELLE	
SENIOR LANDSCAPE ARCHITECT	CHECKED BY	
RAY DESSELLE	DESIGNED BY	



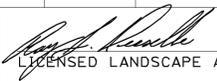
MATCH LINE PP-2

PLANTING PLAN
SCALE: 1" = 50'
PP-1



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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	12.0/19.8	210	319

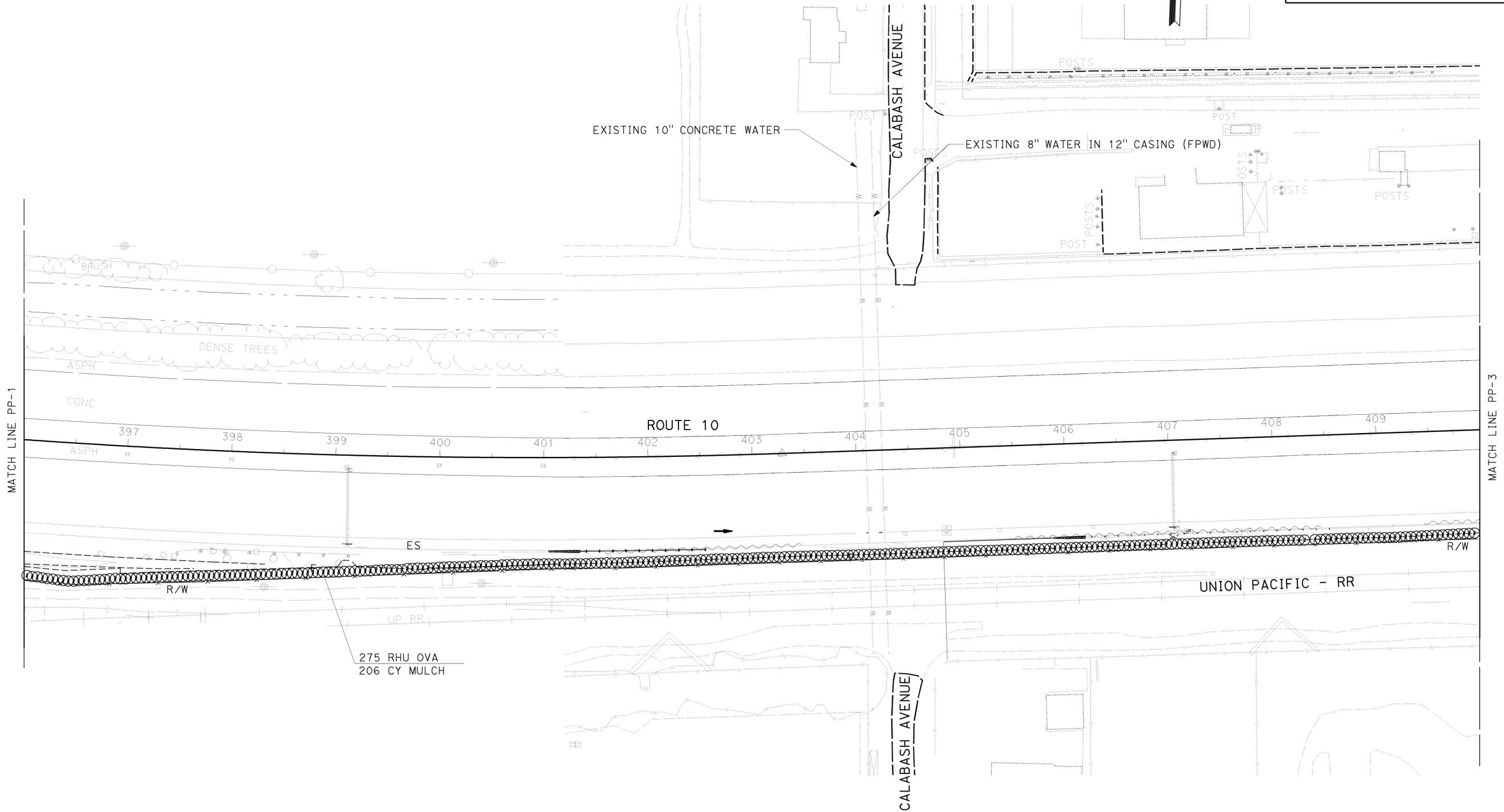

 LICENSED LANDSCAPE ARCHITECT
 8-3-09
 PLANS APPROVAL DATE



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.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	SENIOR LANDSCAPE ARCHITECT	CALCULATED/DESIGNED BY	CHARLES MOFFETT	REVISED BY	
Caltrans LANDSCAPE ARCHITECTURE	RAY DESSELLE	CHECKED BY	RAY DESSELLE	DATE	

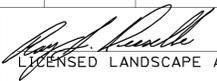


PLANTING PLAN
SCALE: 1" = 50'
PP-2

THIS PLAN ACCURATE FOR PLANTING WORK ONLY

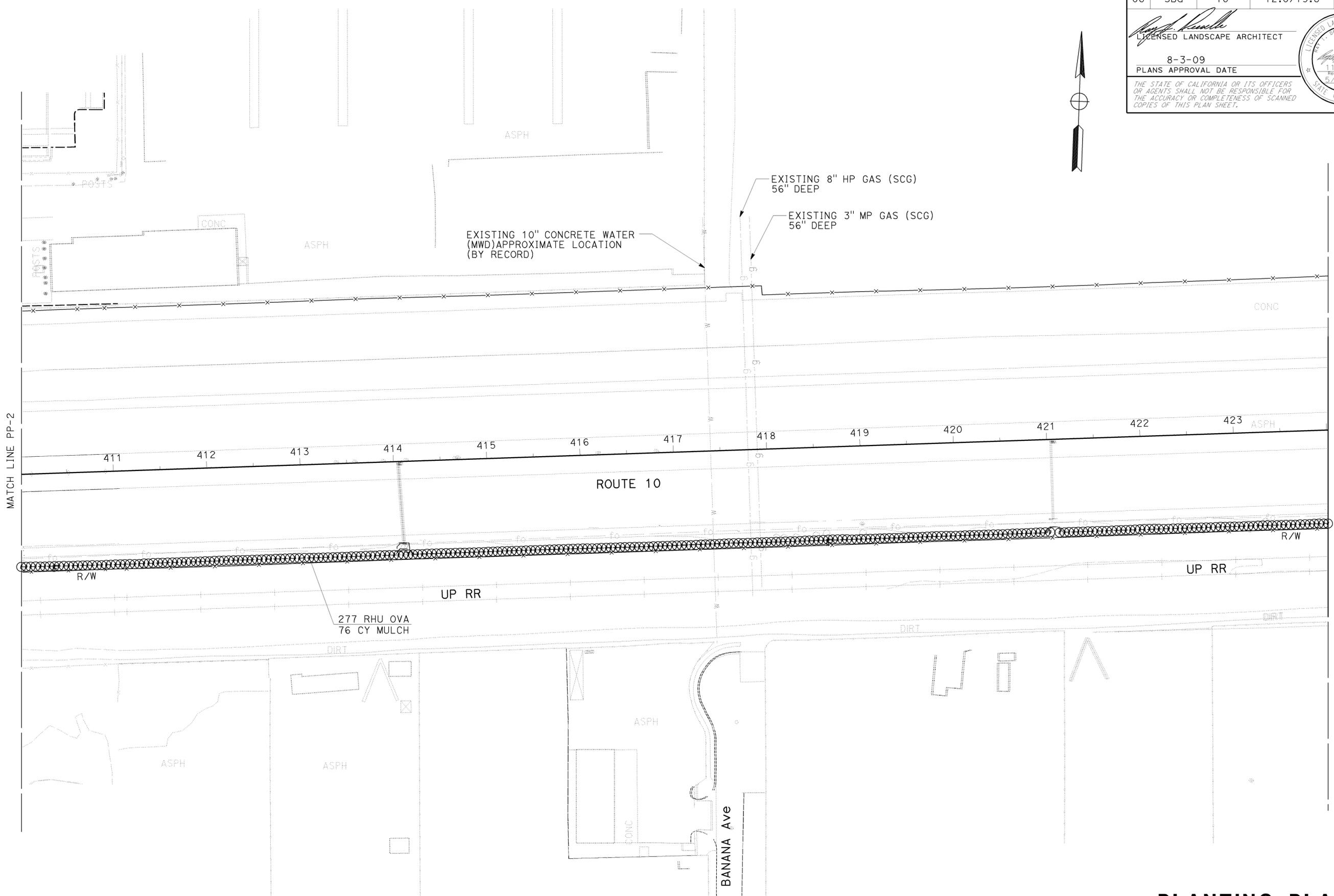
NOTE: FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA,
SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	12.0/19.8	211	319


 LICENSED LANDSCAPE ARCHITECT
 8-3-09
 PLANS APPROVAL DATE



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MATCH LINE PP-2

MATCH LINE PP-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	SENIOR LANDSCAPE ARCHITECT	CALCULATED/DESIGNED BY	REVISED BY
Caltrans LANDSCAPE ARCHITECTURE	RAY DESSELLE	CHECKED BY	CHARLES MOFFETT
			RAY DESSELLE
			DATE REVISED

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PLANTING PLAN
SCALE: 1" = 50'
PP-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT
 RAY DESSELLE

CALCULATED / DESIGNED BY
 CHECKED BY

CHARLES MOFFETT
 RAY DESSELLE

REVISED BY
 DATE REVISED

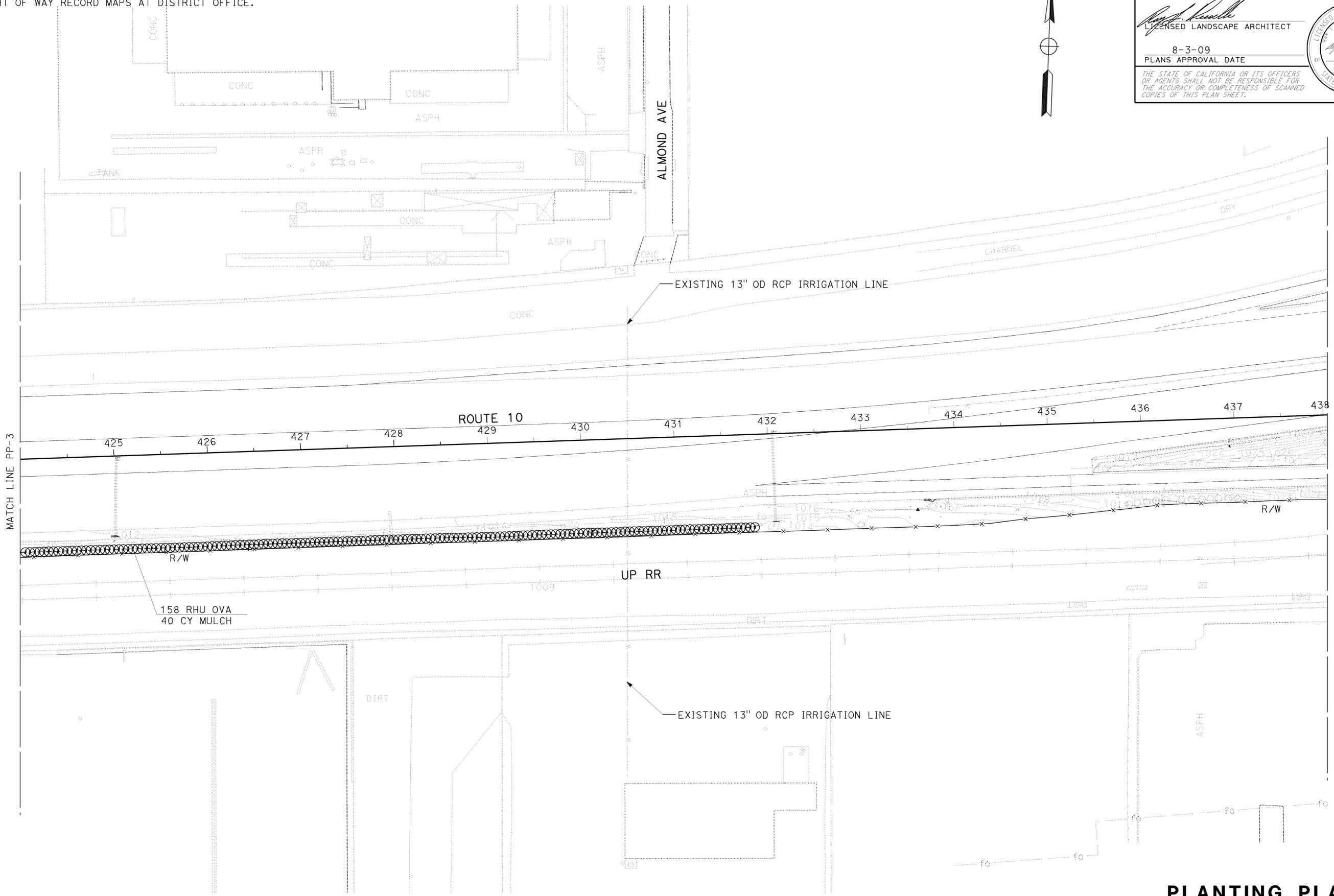
NOTE:
 FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA,
 SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	12.0/19.8	212	319

8-3-09
 PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
 RAY DESSELLE
 11/30/09
 5/24/09

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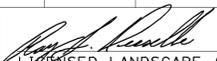


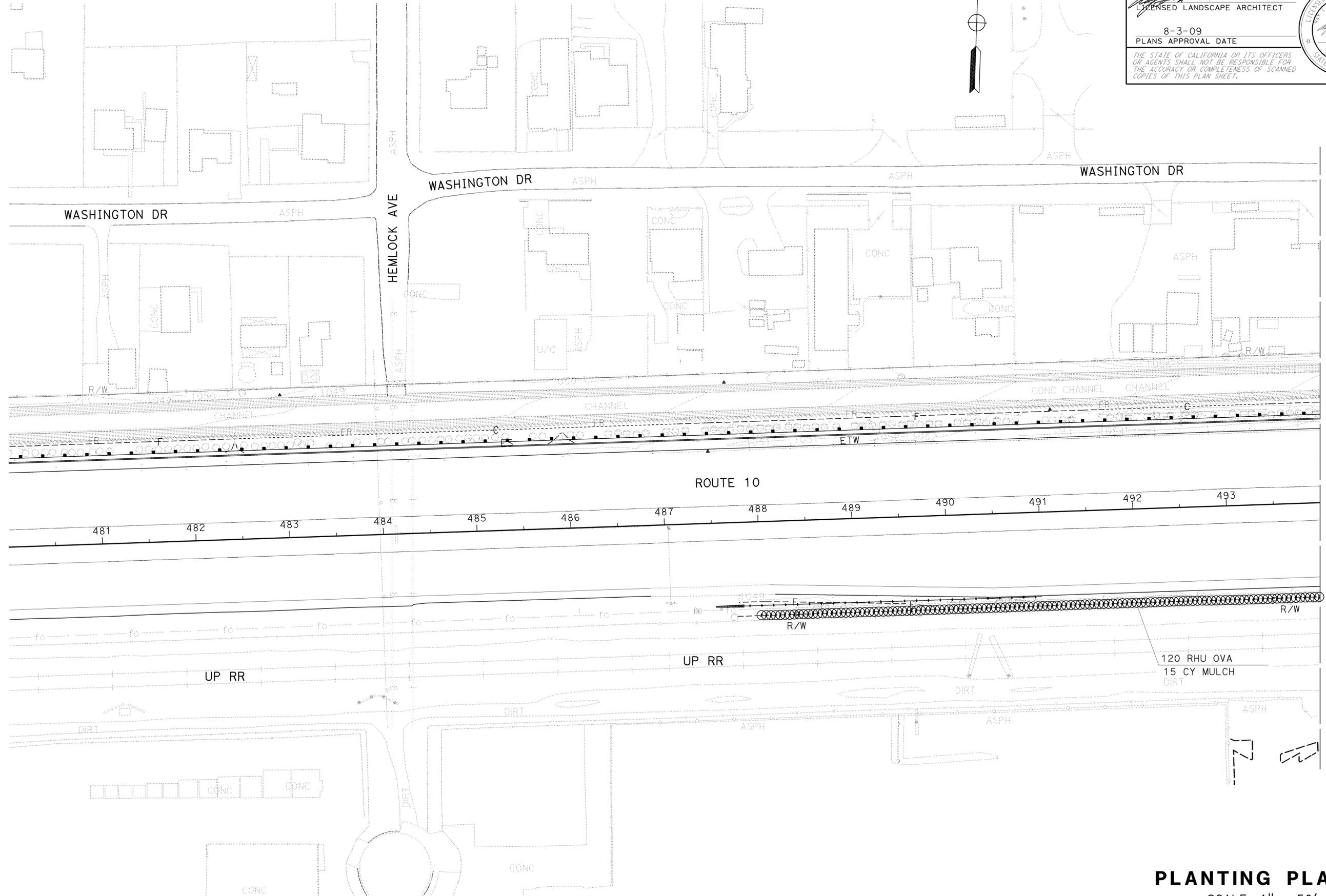
THIS PLAN ACCURATE FOR PLANTING WORK ONLY

PLANTING PLAN
 SCALE: 1" = 50'
PP-4

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	12.0/19.8	213	319


 LICENSED LANDSCAPE ARCHITECT
 8-3-09
 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.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT: RAY DESSELLE
 CALCULATED/DESIGNED BY: CHARLES MOFFETT
 CHECKED BY: RAY DESSELLE
 REVISED BY: DATE REVISIONS

MATCH LINE PP-6

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USERNAME => trrene
DGN FILE => 849750+1005.dgn

CU 08341 EA 497501

PLANTING PLAN
SCALE: 1" = 50'
PP-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT
 RAY DESSELLE

CALCULATED/DESIGNED BY
 CHECKED BY

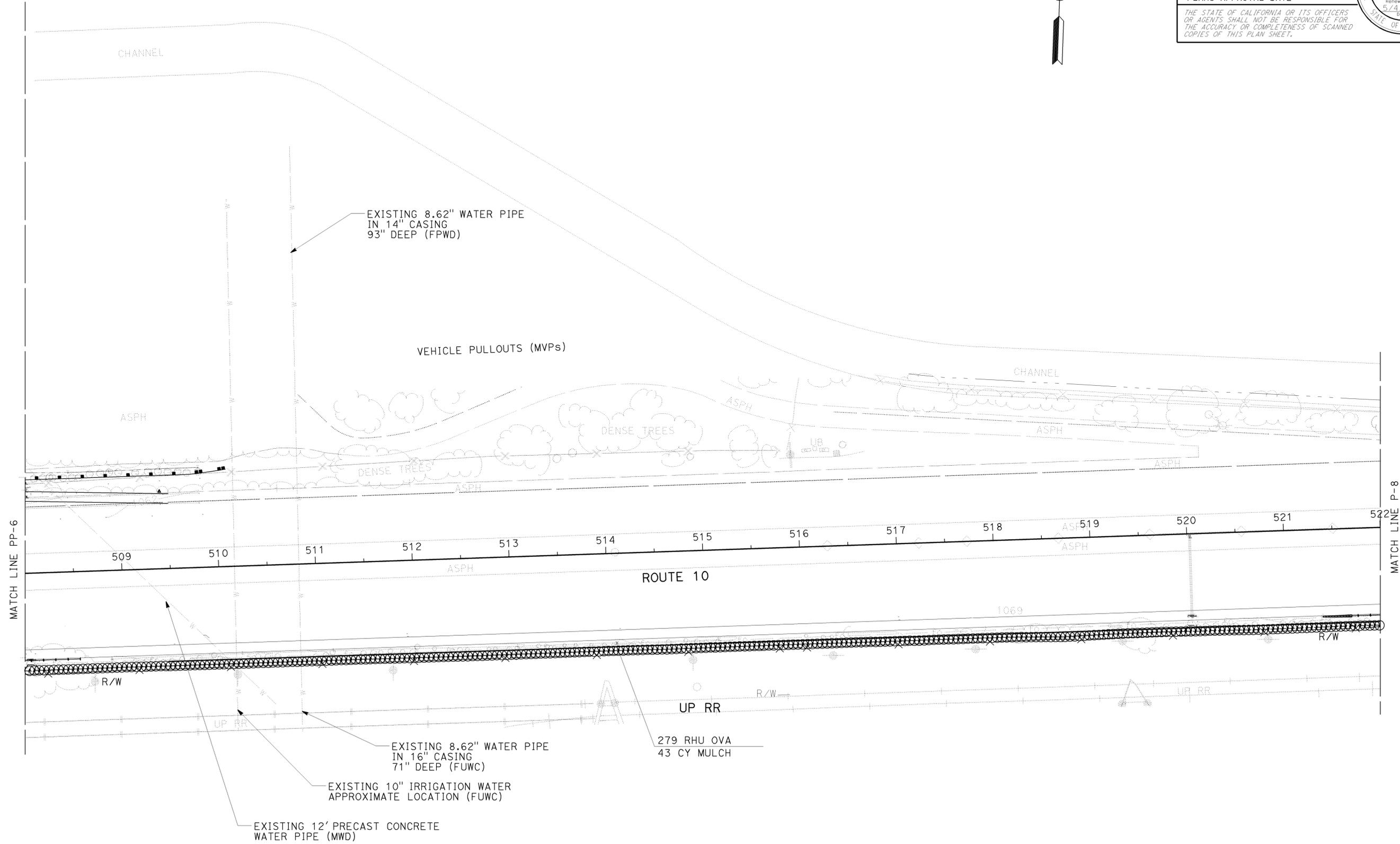
CHARLES MOFFETT
 RAY DESSELLE

REVISED BY
 DATE REVISED

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	12.0/19.8	215	319

[Signature]
 LICENSED LANDSCAPE ARCHITECT
 8-3-09
 PLANS APPROVAL DATE
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PLANTING PLAN
 SCALE: 1" = 50'
PP-7

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USERNAME => trrene
 DGN FILE => 849750+1007.dgn

CU 08341

EA 497501

BORDER LAST REVISED 4/11/2008

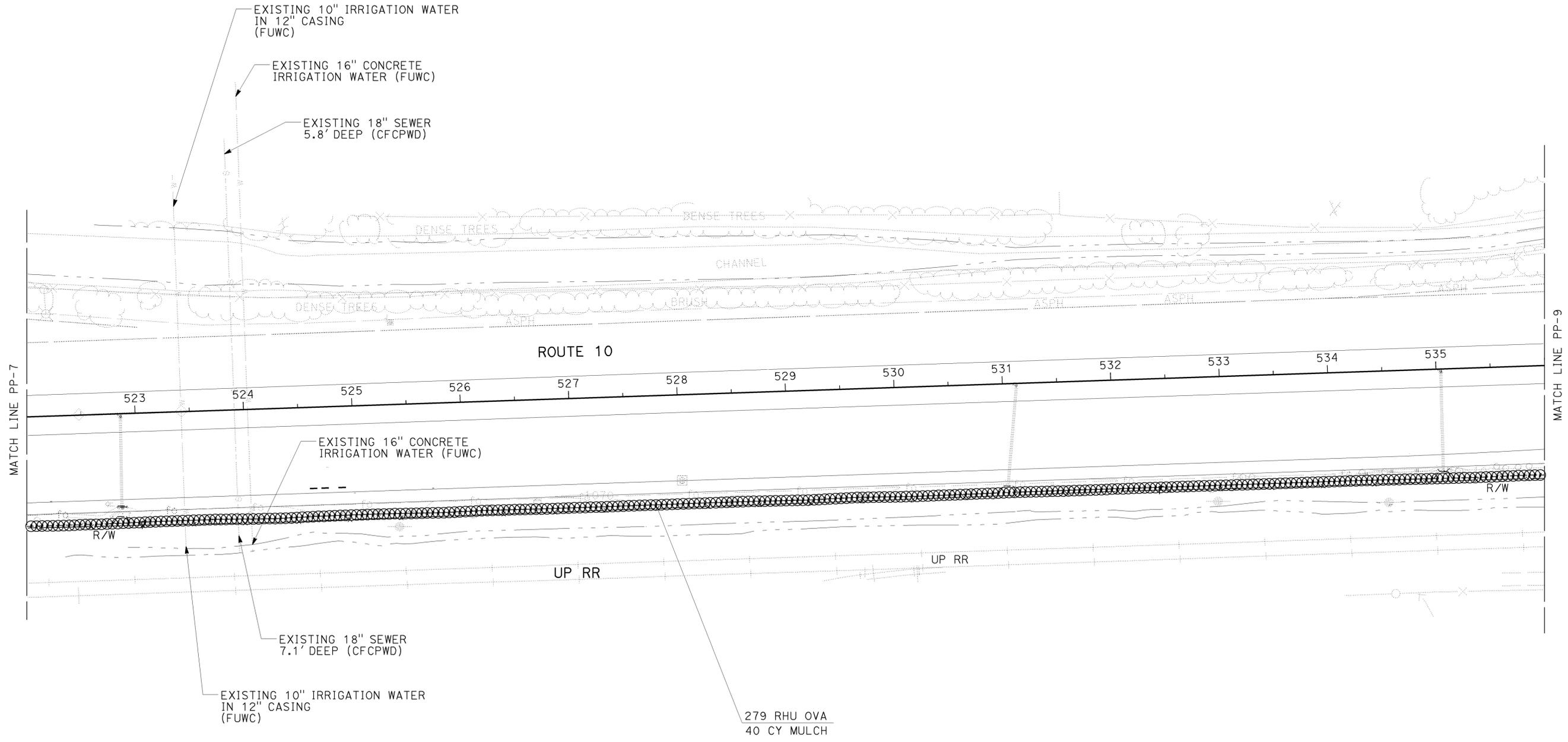
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 05-04-09 | TIME PLOTTED => 10:29

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
 RAY DESSELLE
 CHECKED BY
 RAY DESSELLE
 CALCULATED/DESIGNED BY
 CHARLES MOFFETT
 RAY DESSELLE
 REVISED BY
 DATE
 REVISED

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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	12.0/19.8	216	319

Signature: *Ray Deselle*
 LICENSED LANDSCAPE ARCHITECT
 8-3-09
 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.



PLANTING PLAN
 SCALE: 1" = 50'
PP-8

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 DGN FILE => 849750+1008.dgn

CU 08341

EA 497501

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT RAY DESSELLE
 CALCULATED/DESIGNED BY RAY DESSELLE
 CHECKED BY CHARLES MOFFETT
 REVISED BY DATE REVISIONS

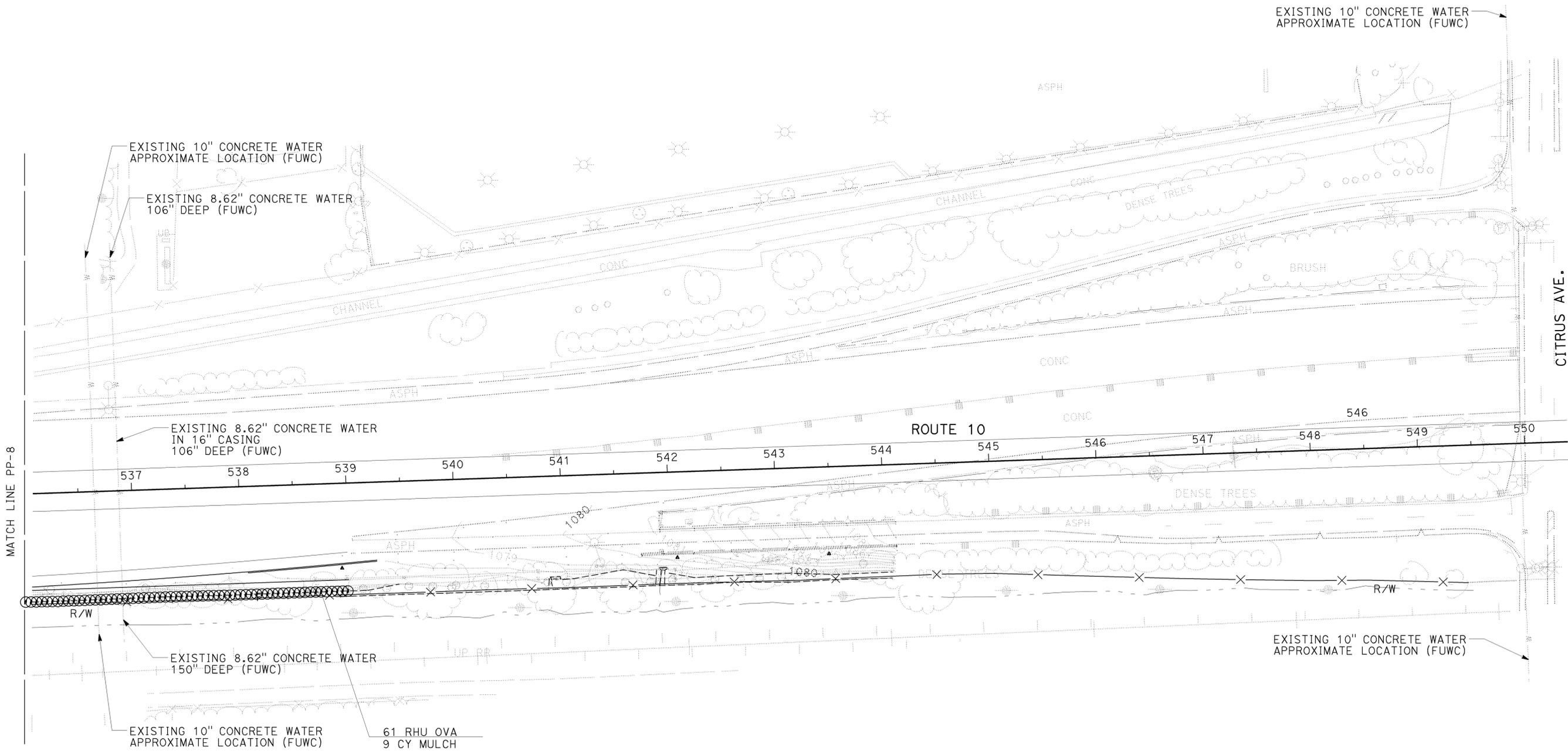
NOTE:
 FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA,
 SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	12.0/19.8	217	319

8-3-09
 PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
 RAY DESSELLE
 SIGNATURE: [Signature]
 11/30/09
 Renewal Date
 5/4/09
 Date

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PLANTING PLAN
 SCALE: 1" = 50'
PP-9

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 DGN FILE => 849750+1009.dgn

CU 08341

EA 497501

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT
 RAY DESSELLE

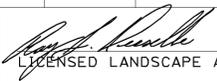
CALCULATED/DESIGNED BY
 CHECKED BY

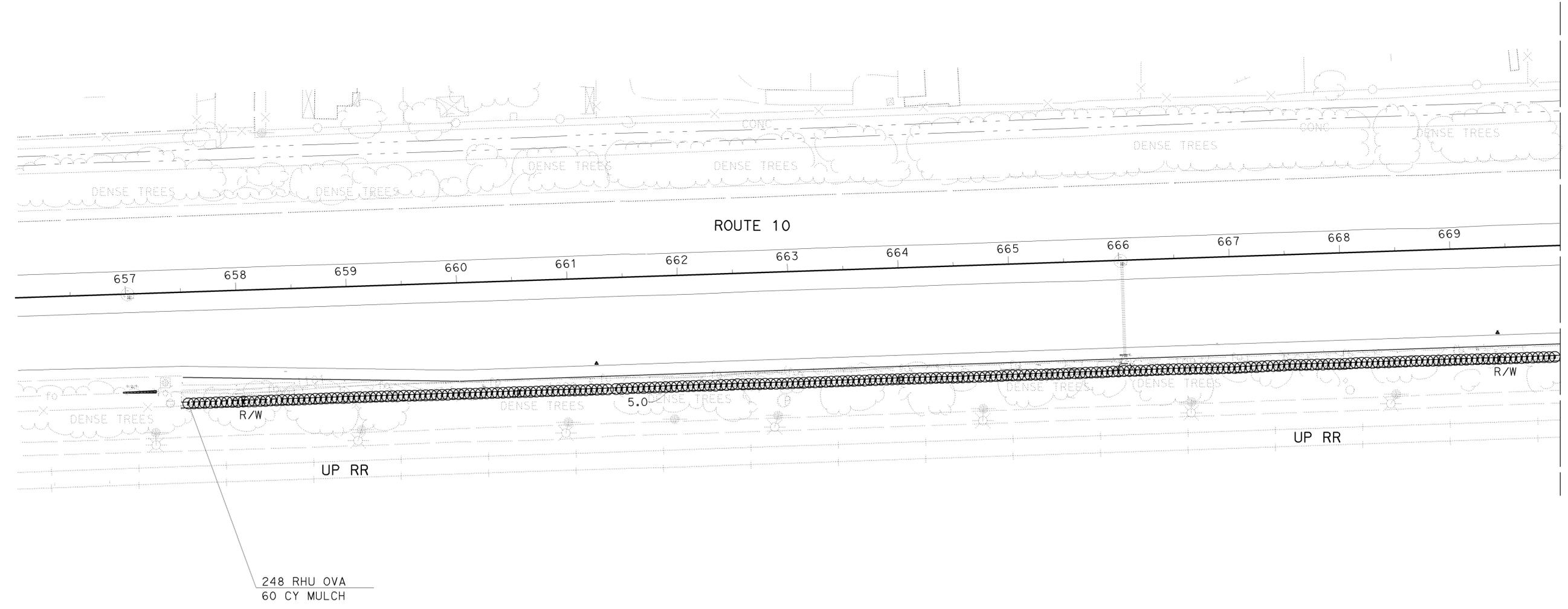
CHARLES MOFFETT
 RAY DESSELLE

REVISED BY
 DATE

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	12.0/19.8	218	319


 LICENSED LANDSCAPE ARCHITECT
 8-3-09
 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.

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PLANTING PLAN
 SCALE: 1" = 50'
PP-10

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT
 RAY DESSELLE

CALCULATED/DESIGNED BY
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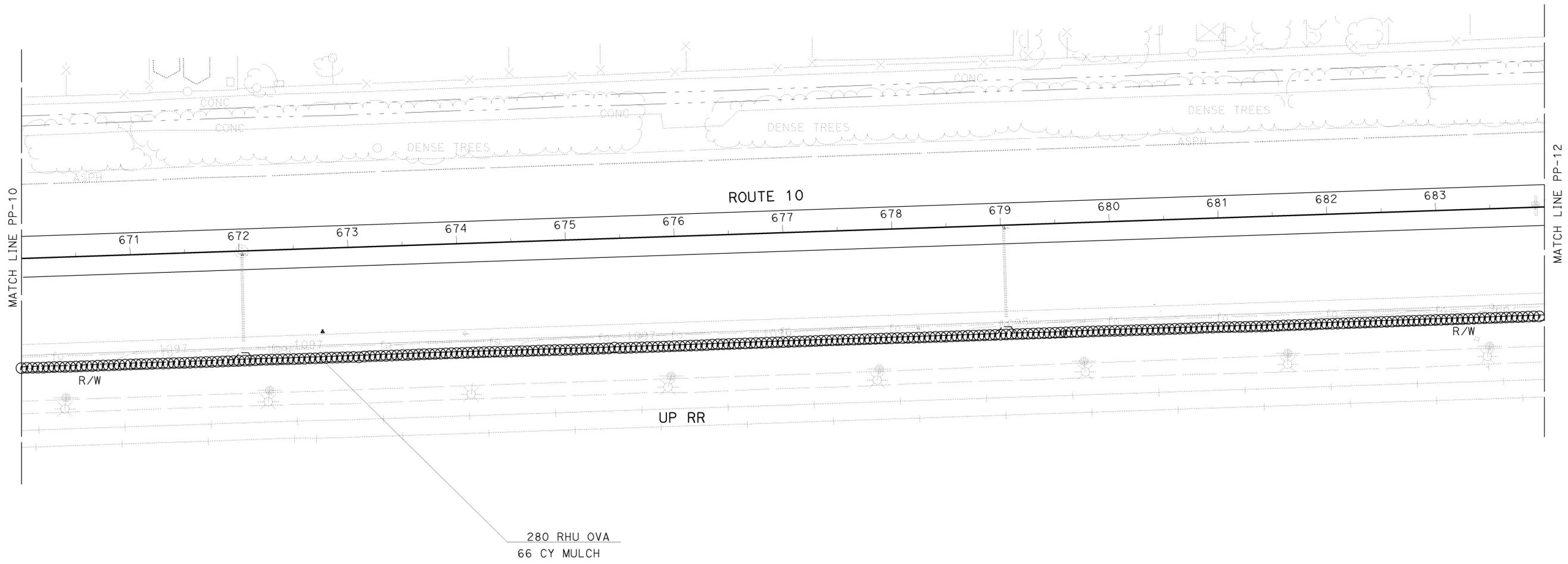
CHARLES MOFFETT
 RAY DESSELLE

REVISED BY
 DATE

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	12.0/19.8	219	319

[Signature]
 LICENSED LANDSCAPE ARCHITECT
 8-3-09
 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.



PLANTING PLAN
 SCALE: 1" = 50'
PP-11

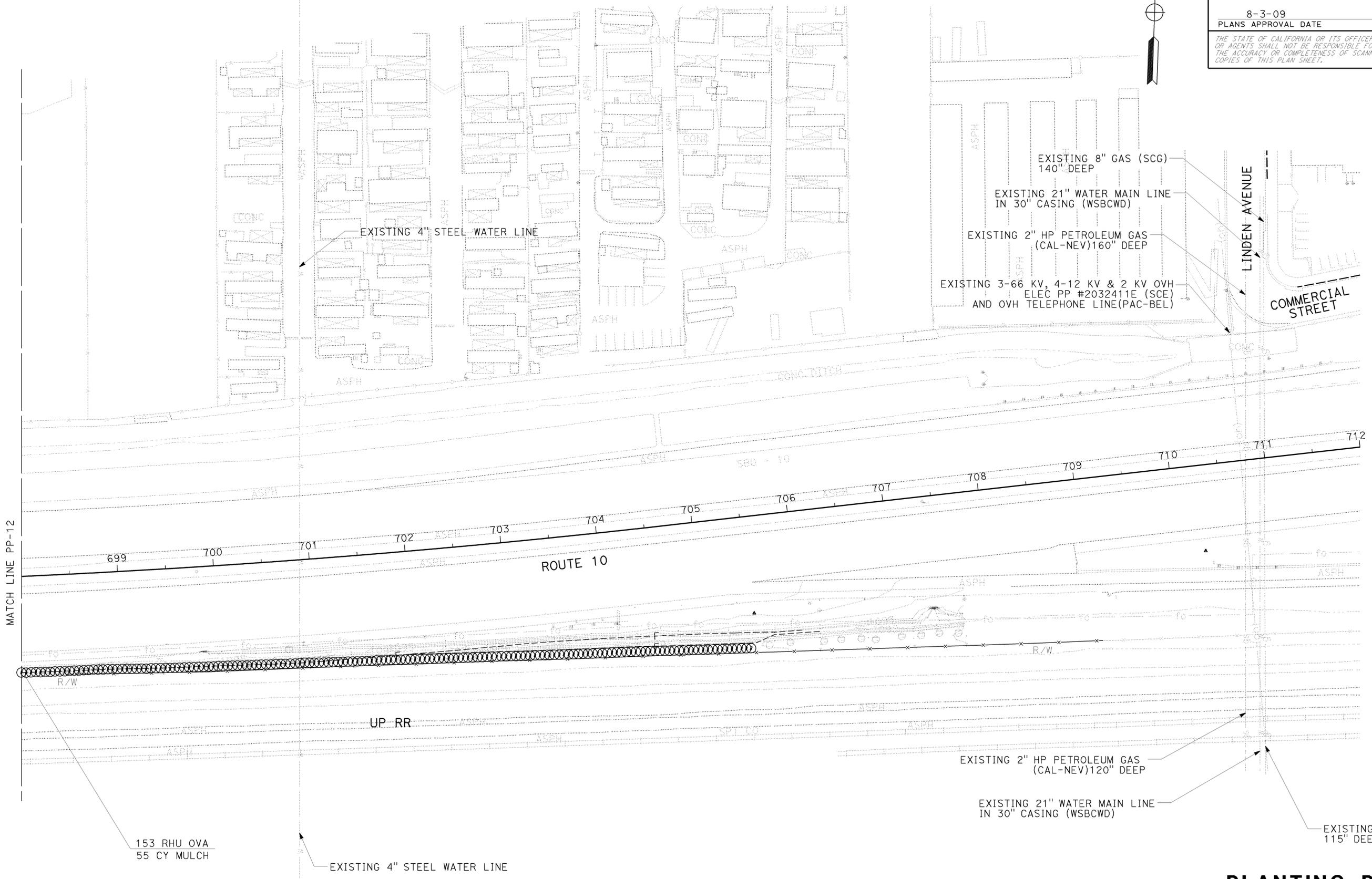
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT RAY DESSELLE
 CALCULATED/DESIGNED BY CHECKED BY
 CHARLES MOFFETT RAY DESSELLE
 REVISED BY DATE REVISED

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	12.0/19.8	221	319

8-3-09
 PLANS APPROVAL DATE

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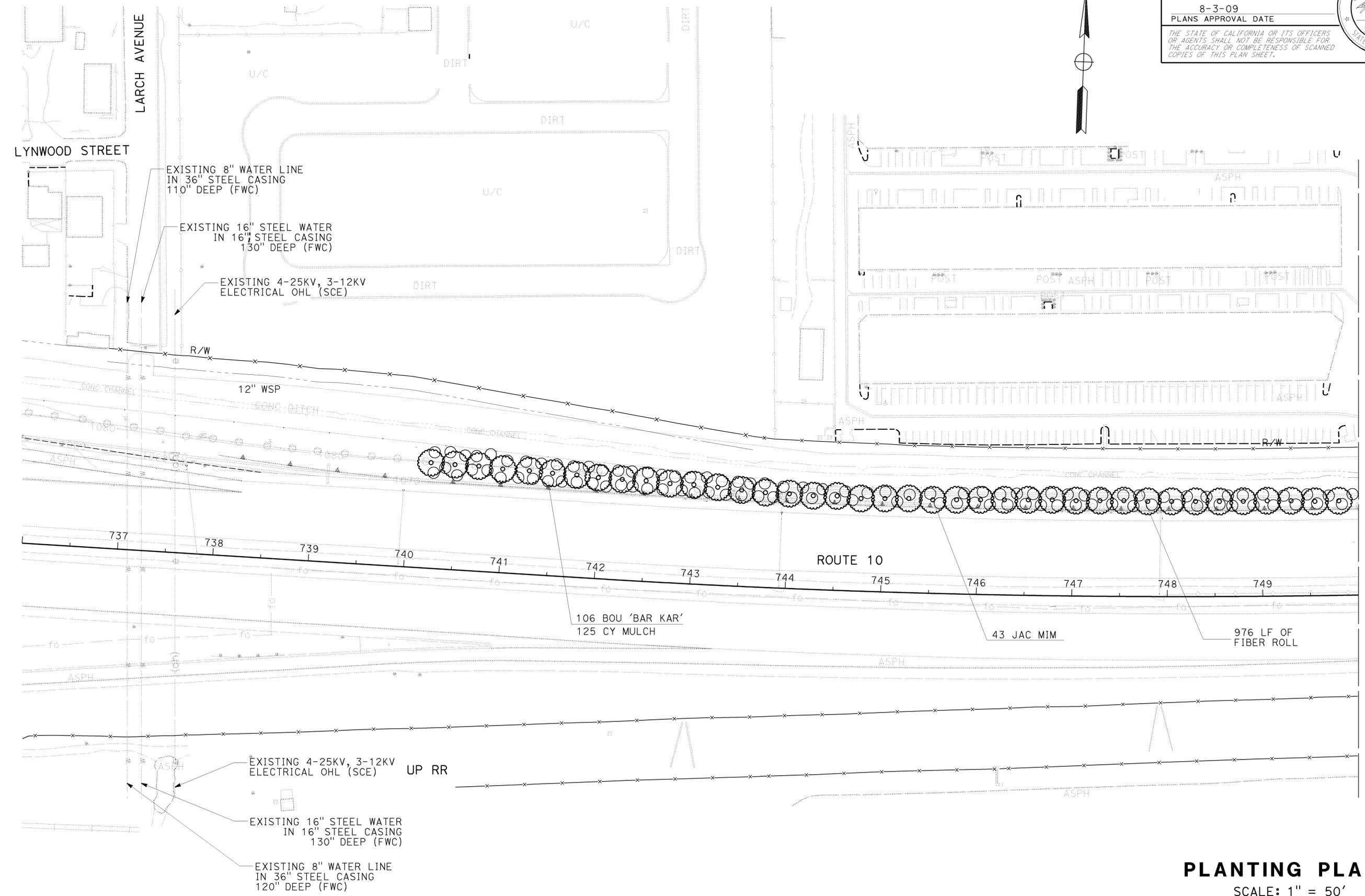


PLANTING PLAN
 SCALE: 1" = 50'
PP-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	12.0/19.8	222	319

Signature: *Ray Deselle*
 LICENSED LANDSCAPE ARCHITECT
 8-3-09
 PLANS APPROVAL DATE
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NOTE:
 FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA,
 SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
 RAY DESSELLE
 CALCULATED/DESIGNED BY
 CHECKED BY
 CHARLES MOFFETT
 RAY DESSELLE
 REVISED BY
 DATE REVISED

PLANTING PLAN
 SCALE: 1" = 50'
PP-14

THIS PLAN ACCURATE FOR PLANTING WORK ONLY



USERNAME => trrene
 DGN FILE => 8497501014.dgn

CU 08341 EA 497501

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	12.0/19.8	223	319

Ray Deselle
 LICENSED LANDSCAPE ARCHITECT
 8-3-09
 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.

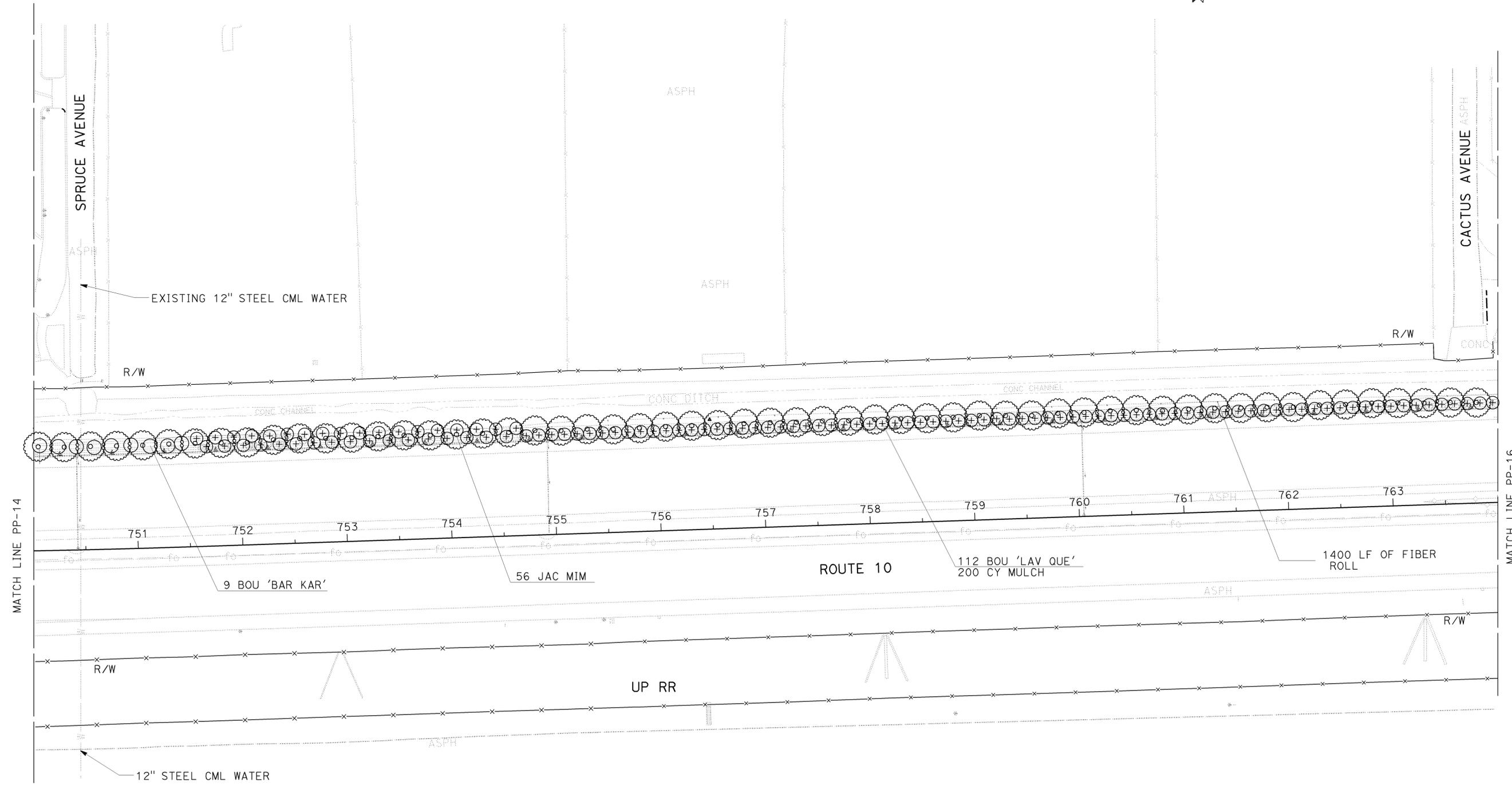


STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT
 RAY DESSELLE

CALCULATED/DESIGNED BY
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 RAY DESSELLE

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 DGN FILE => 8497501i015.dgn

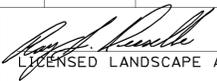
CU 08341

EA 497501

PLANTING PLAN
 SCALE: 1" = 50'
PP-15

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

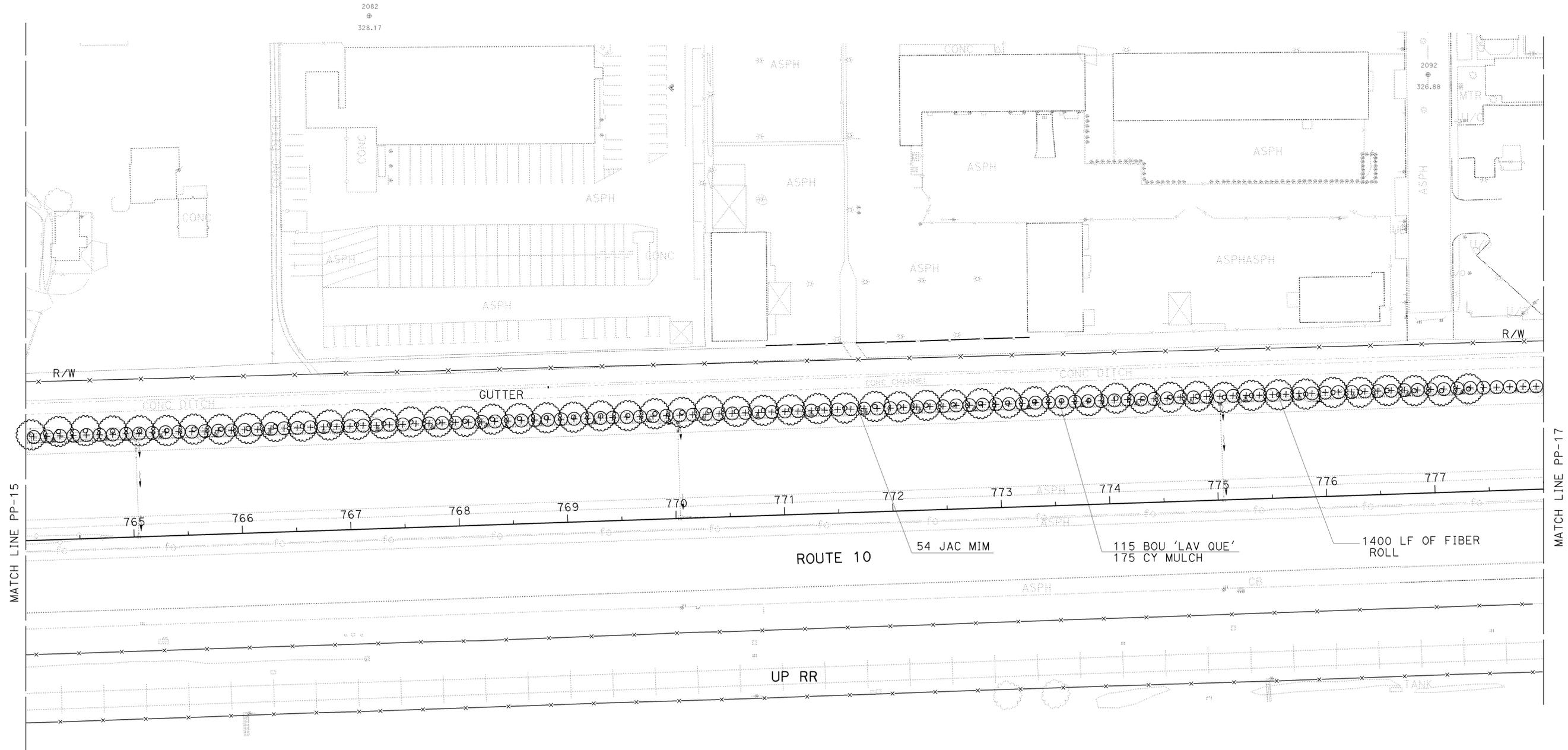
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	12.0/19.8	224	319


 LICENSED LANDSCAPE ARCHITECT
 8-3-09
 PLANS APPROVAL DATE



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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
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 RAY DESSELLE
 REVISED BY
 DATE REVISED



PLANTING PLAN
 SCALE: 1" = 50'
PP-16

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

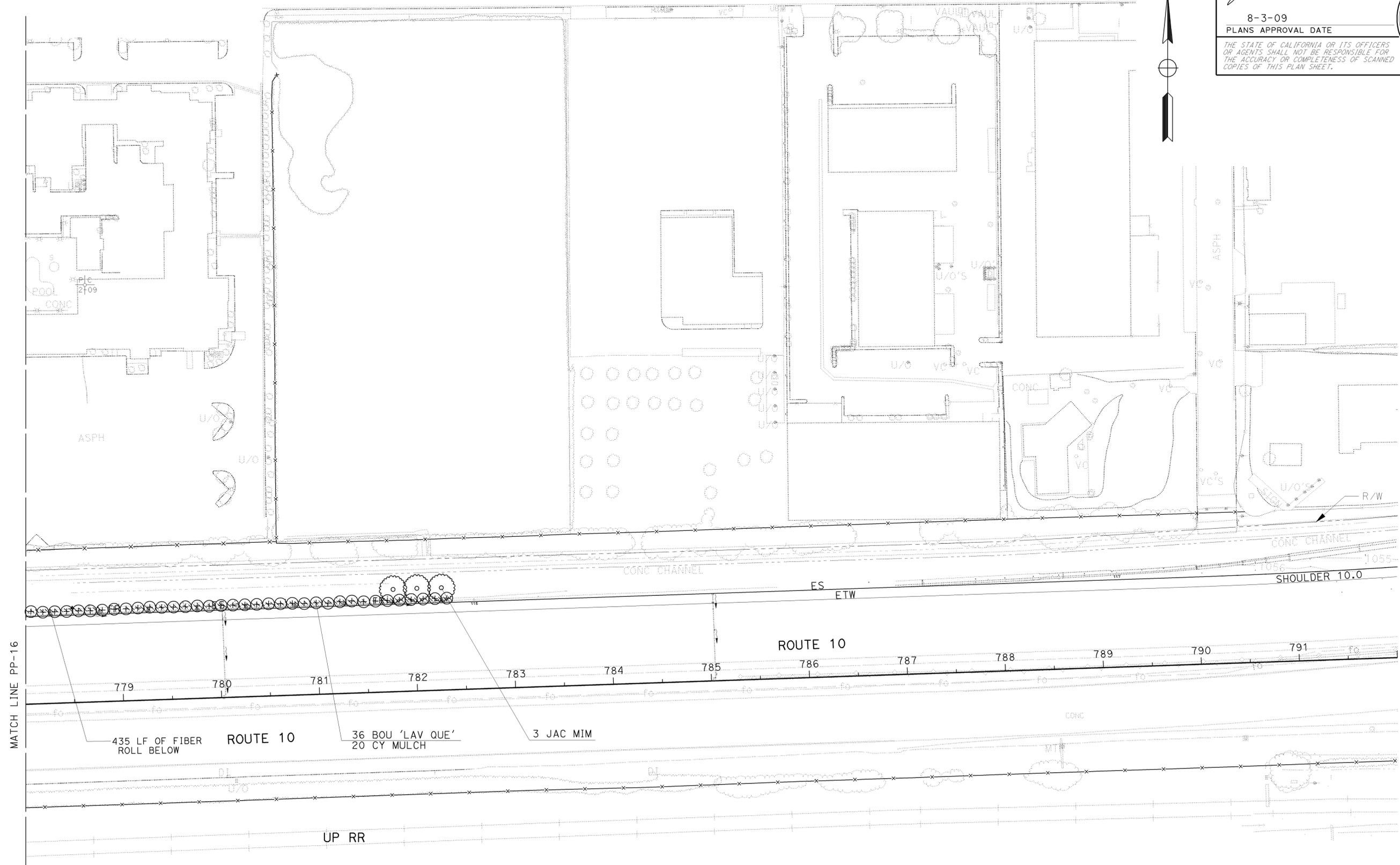
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	12.0/19.8	225	319

Ray Deselle
 LICENSED LANDSCAPE ARCHITECT
 8-3-09
 PLANS APPROVAL DATE

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT	RAY DESSELLE
CALCULATED/DESIGNED BY	CHECKED BY
CHARLES MOFFETT	RAY DESSELLE
REVISED BY	DATE REVISED

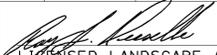


PLANTING PLAN
 SCALE: 1" = 50'
PP-17

THIS PLAN ACCURATE FOR PLANTING WORK ONLY

RELATIVE BORDER SCALE
 1" = 100'

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	12.0/19.8	226	319


 LICENSED LANDSCAPE ARCHITECT
 8-3-09
 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.



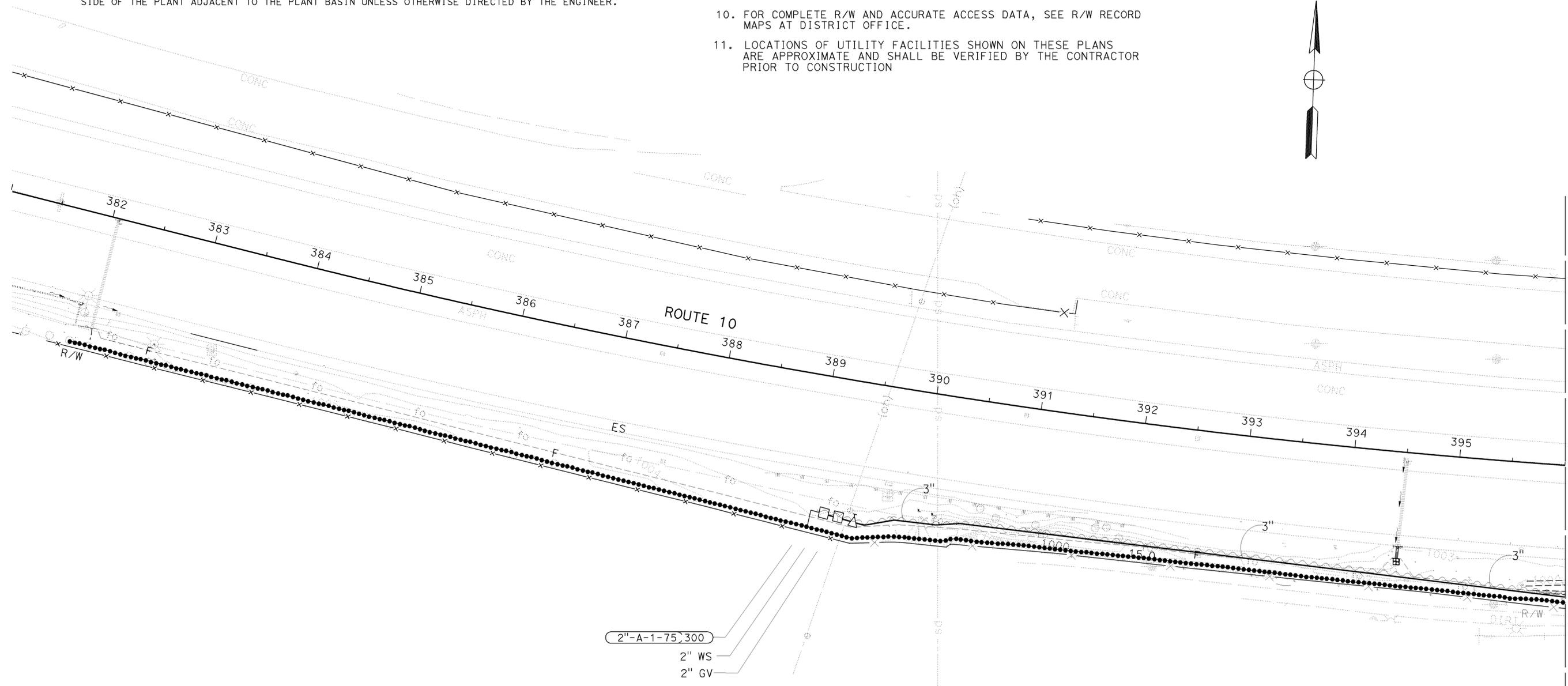
IRRIGATION NOTES

- FOR SPRINKLER TYPE, SEE SPRINKLER SCHEDULE.
- ALL PLASTIC PIPE SUPPLY LINE (MAIN SIDE) UPSTREAM FROM 2" GATE VALVES AT VALVE MAINFOLD LOCATIONS SHALL BE 3" IN SIZE UNLESS OTHERWISE SHOWN ON PLAN.
- ALL VALVES, PULL BOXES, WYE STRAINERS, PLASTIC PIPE SUPPLY LINE (MAIN) & CONTROL AND NEUTRAL CONDUCTORS SHOWN ON THE PLANS TO BE LOCATED ADJACENT TO FENCES OR PAVED DITCHES, SHALL BE INSTALLED 24" FROM FENCES OR DITCHES. IN AREAS WHERE THESE IRRIGATION FACILITIES CANNOT BE INSTALLED AS PROVIDED HEREIN, THEY SHALL BE LOCATED AS DIRECTED BY THE ENGINEER.
- ALL VALVES, PULL BOXES, WYE STRAINERS, PLASTIC PIPE SUPPLY LINE (MAIN) & CONTROL AND NEUTRAL CONDUCTORS SHOWN ON THE PLANS TO BE LOCATED ADJACENT TO CURBS, DIKES, AND PAVED SHOULDERS, SHALL BE INSTALLED A MINIMUM OF 4' AND A MAXIMUM OF 8' FROM CURBS, DIKES, AND PAVED SHOULDERS.
- ALL VALVE BOXES FOR VALVES AND WYE STRAINERS IN VALVE GROUPINGS SHALL BE INSTALLED A MINIMUM OF 3' AND A MAXIMUM OF 4' APART.
- PLASTIC PIPE SUPPLY LINE DOWN STREAM OF ELECTRICAL REMOTE CONTROL VALVES SHALL BE ONE SIZE LARGER THAN THE REMOTE CONTROL VALVES UNLESS OTHERWISE NOTED.
- SPRINKLER TYPE C-2 (FLOOD BUBBLER) SHALL BE LOCATED ON THE UPHILL SIDE OF THE PLANT ADJACENT TO THE PLANT BASIN UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

8. SUPPLY LINE FOR 'C-2' BUBBLERS SHALL CONFORM TO THE FOLLOWING REFERENCE:

SIZE OF PIPE	QUANTITY OF SPRINKLERS TYPE C-2 (.25 gpm. EA.)
3/4"	1-40
1"	41-64
1 1/4"	65-104
1 1/2"	105-140
2"	141-220
2 1/2"	221-320

- AT LOCATIONS WHERE 12" WELDED STEEL PIPE CONDUIT IS TO BE INSTALLED, THERE SHALL BE A MINIMUM 5' COVER OVER THE TOP OF CONDUIT TO AVOID CONFLICTS WITH EXISTING FIBER-OPTIC FACILITIES. THE FIBER-OPTIC FACILITIES WITHIN THESE AREAS SHALL BE LOCATED BY THE CONTRACTOR PRIOR TO PERFORMING JACKING OPERATIONS.
- FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT DISTRICT OFFICE.
- LOCATIONS OF UTILITY FACILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
 RAY DESSELLE
 CALCULATED/DESIGNED BY
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 RAY DESSELLE
 CHARLES MOFFETT
 RAY DESSELLE
 REVISED BY
 DATE
 REVISED
 DATE

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USERNAME => frmnguye
DGN FILE => 849750t1001.dgn

IRRIGATION PLAN
SCALE: 1" = 50'
IP-1

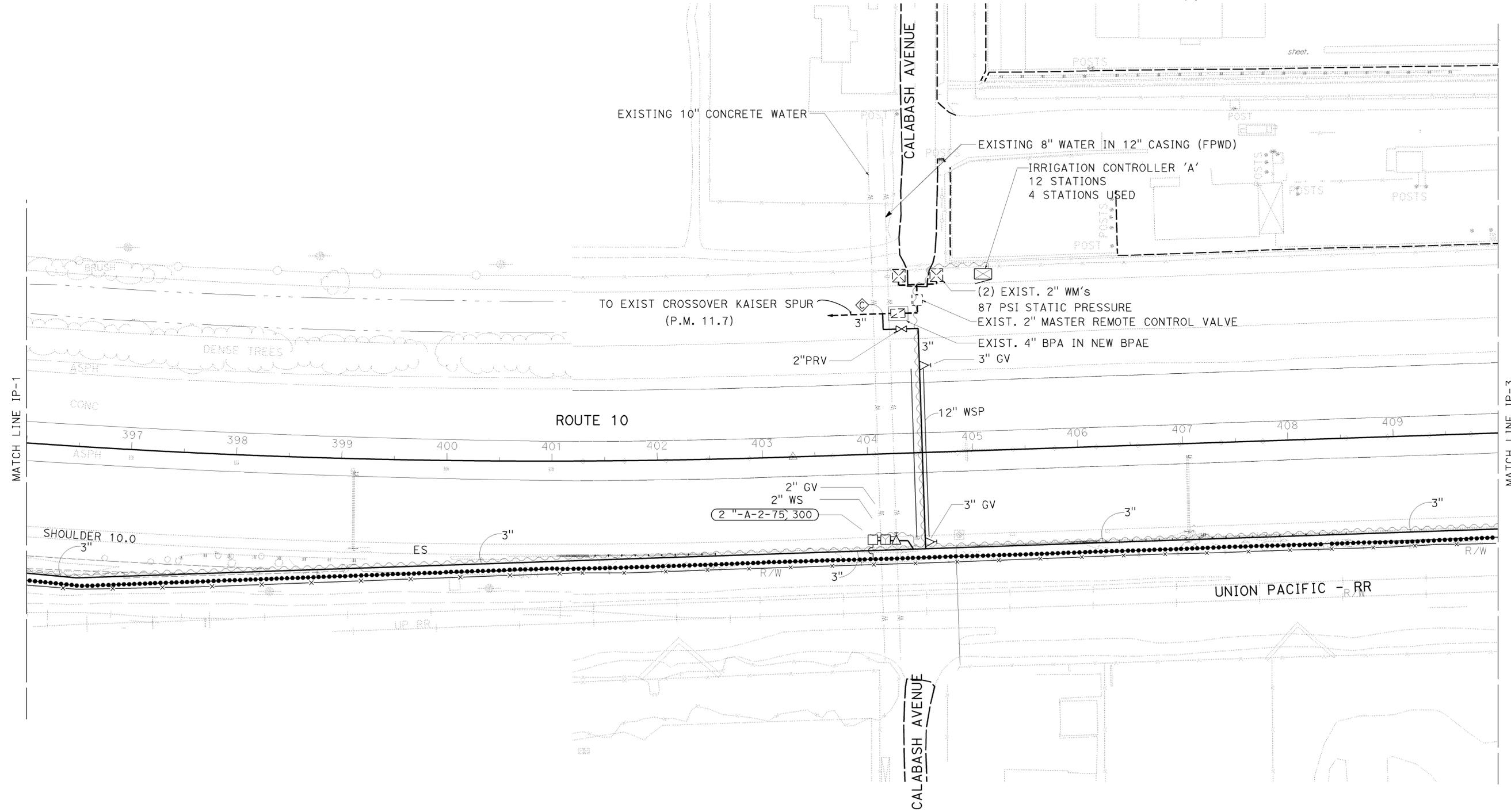
NOTE: FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA,
SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	12.0/19.8	227	319


 LICENSED LANDSCAPE ARCHITECT
 8-3-09
 PLANS APPROVAL DATE



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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
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 RAY DESSELLE
 REVISED BY
 DATE REVISED

THIS PLAN ACCURATE FOR IRRIGATION WORK ONLY

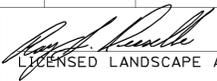


USERNAME => frmnguye
 DGN FILE => 8497501.002.dgn

IRRIGATION PLAN
 SCALE: 1" = 50'
IP-2

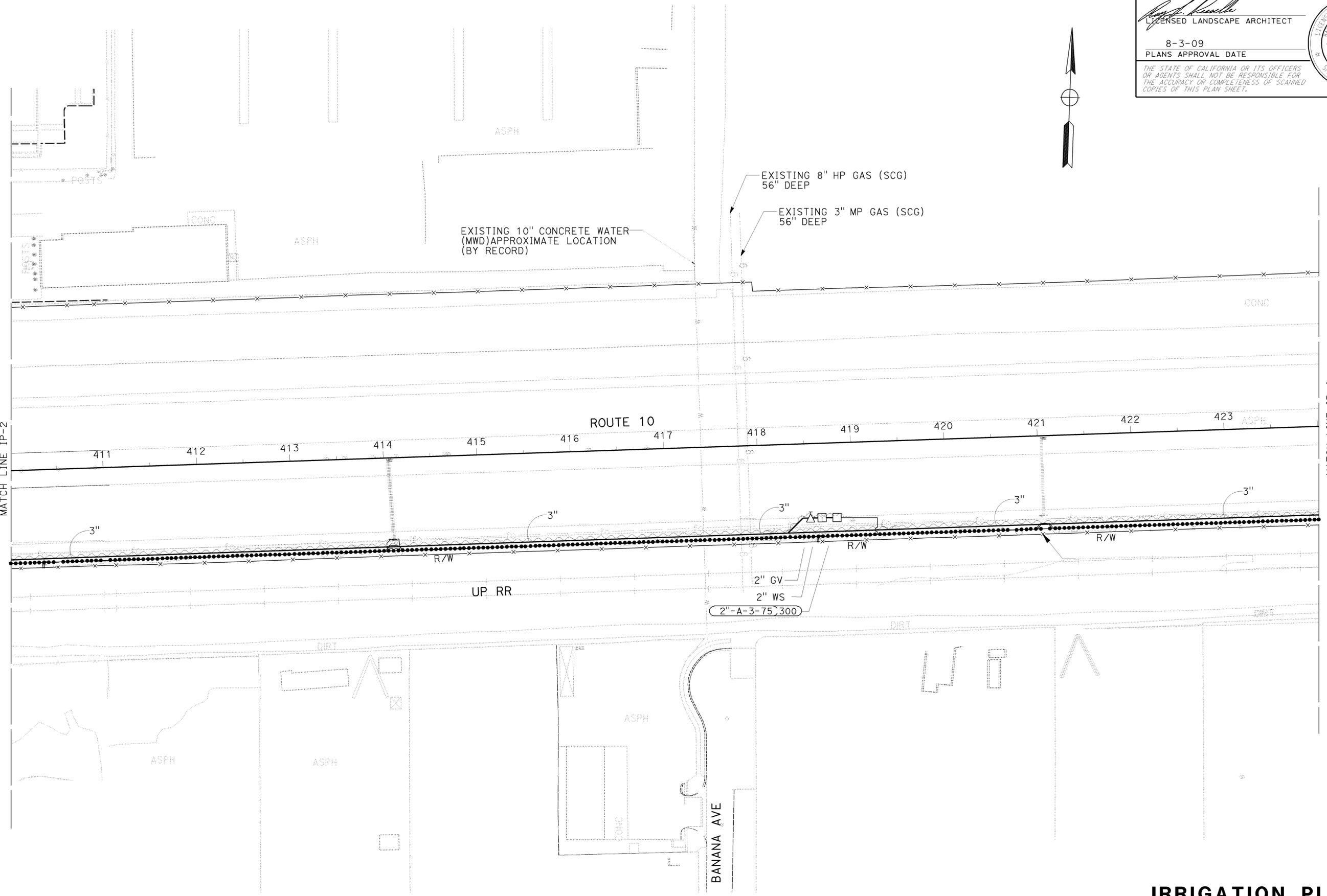
NOTE: FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA,
SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	12.0/19.8	228	319


 LICENSED LANDSCAPE ARCHITECT
 8-3-09
 PLANS APPROVAL DATE



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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT: RAY DESSELLE
 CALCULATED/DESIGNED BY: RAY DESSELLE
 CHECKED BY:
 CHARLES MOFFETT
 RAY DESSELLE
 REVISED BY: DATE REVISIONS:
 x
 x
 x
 x
 x

THIS PLAN ACCURATE FOR IRRIGATION WORK ONLY



USERNAME => frmnguye
DGN FILE => 8497501.003.dgn

IRRIGATION PLAN

SCALE: 1" = 50'

IP-3

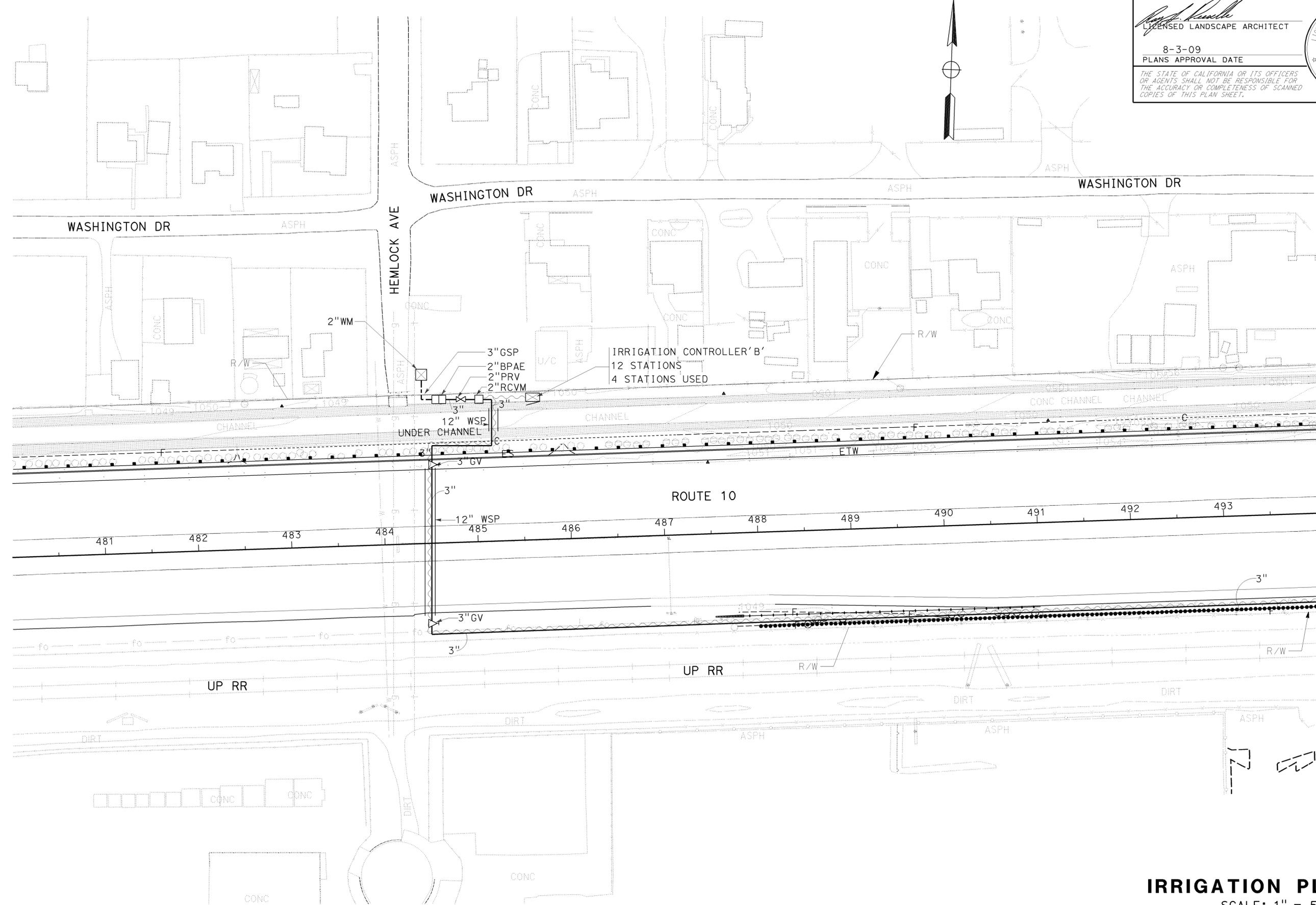
NOTE: FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA,
SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	12.0/19.8	230	319

Ray Deselle
LICENSED LANDSCAPE ARCHITECT

8-3-09
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.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT: RAY DESSELLE
DESIGNED BY: RAY DESSELLE
CHECKED BY: RAY DESSELLE
CALCULATED BY: CHARLES MOFFETT
REVISOR: CHARLES MOFFETT
DATE: 4/11/2008

THIS PLAN ACCURATE FOR IRRIGATION WORK ONLY



USERNAME => frmnguye
DGN FILE => 8497501.005.dgn

IRRIGATION PLAN

SCALE: 1" = 50'

IP-5

CU 08341 EA 497501

LAST REVISION | DATE PLOTTED => 06-AUG-2009
05-04-09 TIME PLOTTED => 09:24

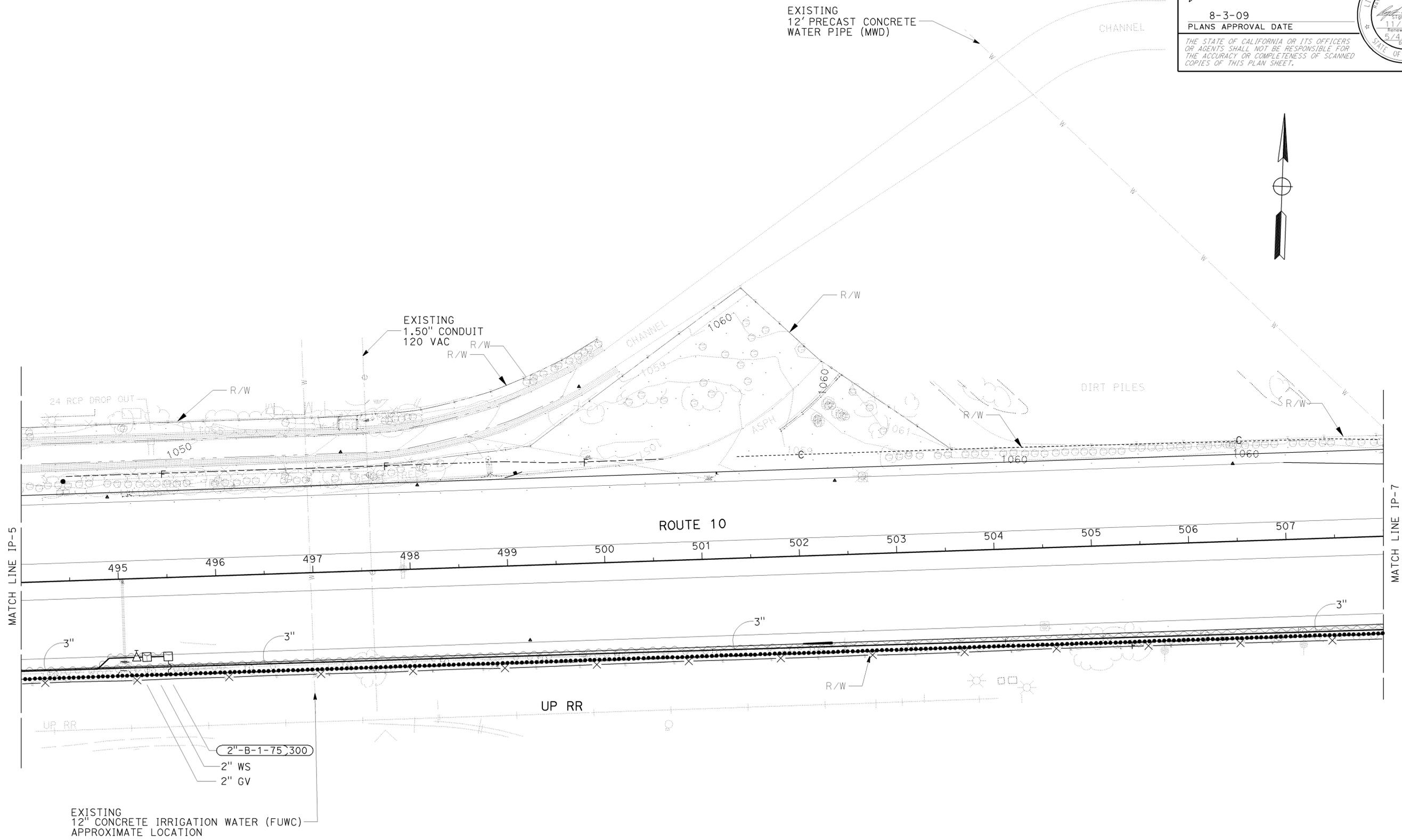
NOTE: FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA,
SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	12.0/19.8	231	319

Ray D. Deselle
LICENSED LANDSCAPE ARCHITECT

8-3-09
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.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	SENIOR LANDSCAPE ARCHITECT	REVISOR	DATE
Caltrans LANDSCAPE ARCHITECTURE	RAY DESSELLE	CHARLES MOFFETT	RAY DESSELLE
		CALCULATED/DESIGNED BY	CHECKED BY

BORDER LAST REVISED 4/11/2008

THIS PLAN ACCURATE FOR IRRIGATION WORK ONLY

RELATIVE BORDER SCALE IS IN INCHES



USERNAME => frmnguye
DGN FILE => 84975011006.dgn

CU 08341

EA 497501

IRRIGATION PLAN

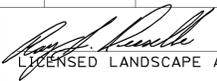
SCALE: 1" = 50'

IP-6

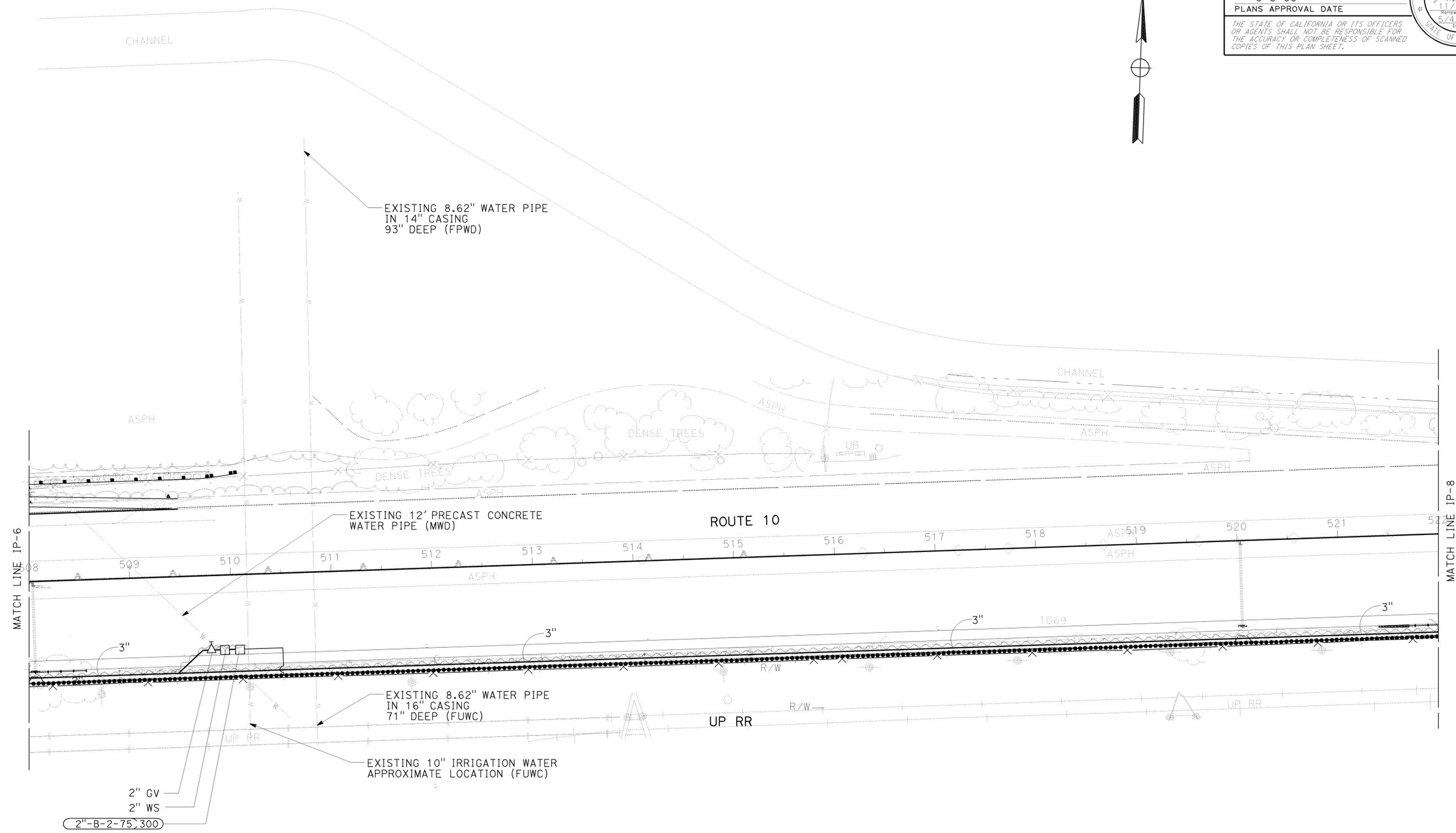
LAST REVISION | DATE PLOTTED => 06-AUG-2009
05-04-09 TIME PLOTTED => 09:25

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	12.0/19.8	232	319


 LICENSED LANDSCAPE ARCHITECT
 8-3-09
 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.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	LANDSCAPE ARCHITECTURE
SENIOR LANDSCAPE ARCHITECT	RAY DESSELLE
CALCULATED/DESIGNED BY	CHECKED BY
CHARLES MOFFETT	RAY DESSELLE
REVISED BY	DATE REVISED

BORDER LAST REVISED 4/11/2008

THIS PLAN ACCURATE FOR IRRIGATION WORK ONLY



USERNAME => frmnguye
DGN FILE => 8497501007.dgn

IRRIGATION PLAN

SCALE: 1" = 50'

IP-7

CU 08341 EA 497501

05-04-09 09:25
DATE PLOTTED => 06-AUG-2009
TIME PLOTTED => 09:25

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	12.0/19.8	233	319

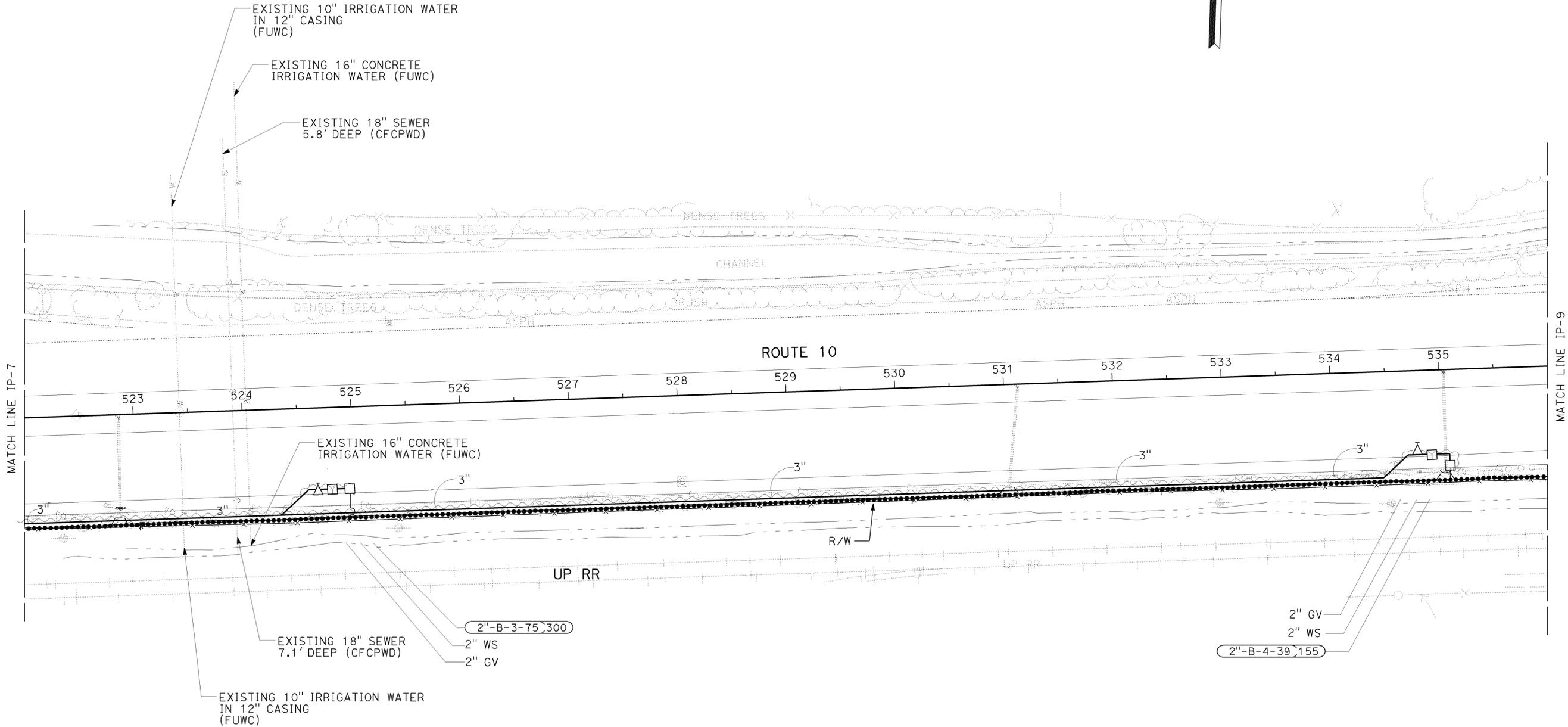
Ray Deselle
LICENSED LANDSCAPE ARCHITECT

8-3-09
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.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	REVISOR	DATE
Caltrans LANDSCAPE ARCHITECTURE	CHARLES MOFFETT	RAY DESSELLE
SENIOR LANDSCAPE ARCHITECT	CALCULATED/DESIGNED BY	CHECKED BY
RAY DESSELLE		



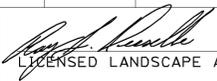
THIS PLAN ACCURATE FOR IRRIGATION WORK ONLY

IRRIGATION PLAN
SCALE: 1" = 50'
IP-8

05-04-09 09:25 DATE PLOTTED => 06-AUG-2009 TIME PLOTTED => 09:25

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	12.0/19.8	234	319

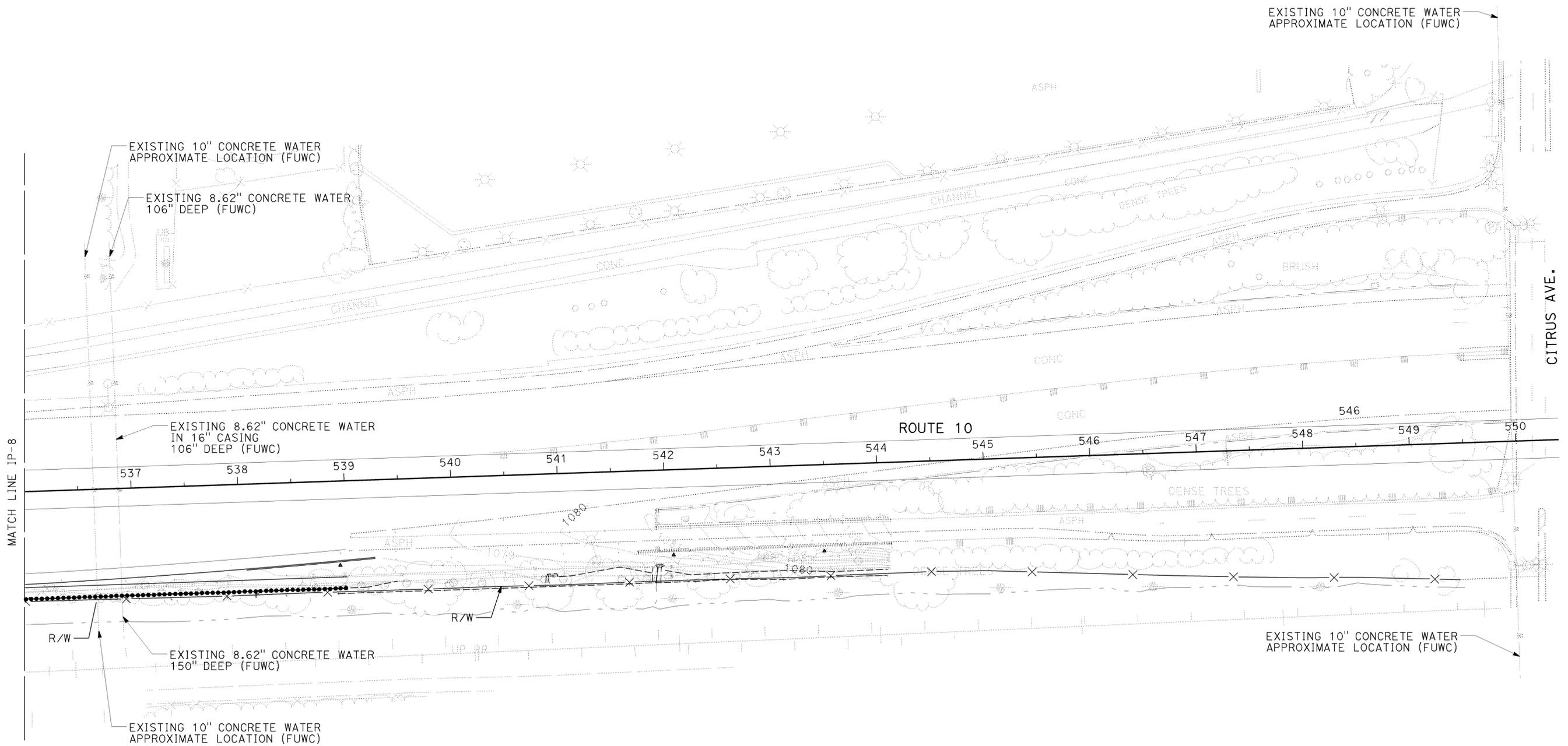

 LICENSED LANDSCAPE ARCHITECT
 8-3-09
 PLANS APPROVAL DATE



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.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
 RAY DESSELLE
 CALCULATED/DESIGNED BY
 RAY DESSELLE
 CHECKED BY
 RAY DESSELLE
 CHARLES MOFFETT
 RAY DESSELLE
 REVISED BY
 DATE
 REVISED
 DATE



IRRIGATION PLAN
SCALE: 1" = 50'
IP-9

THIS PLAN ACCURATE FOR IRRIGATION WORK ONLY

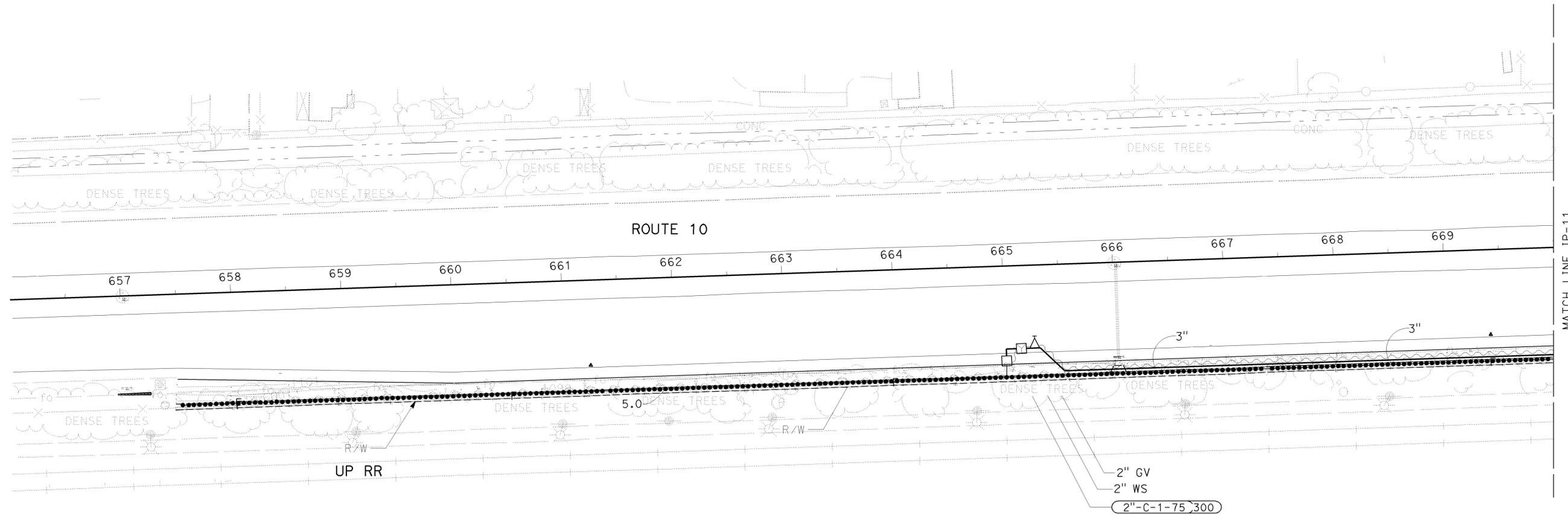
NOTE: FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA,
SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	12.0/19.8	235	319

Ray Deselle
LICENSED LANDSCAPE ARCHITECT

8-3-09
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.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	SENIOR LANDSCAPE ARCHITECT	CALCULATED/DESIGNED BY	CHARLES MOFFETT	REVISED BY	
Caltrans LANDSCAPE ARCHITECTURE	RAY DESSELLE	CHECKED BY	RAY DESSELLE	DATE	

THIS PLAN ACCURATE FOR IRRIGATION WORK ONLY



USERNAME => trlenard
DGN FILE => 849750+I010.dgn

IRRIGATION PLAN
SCALE 1" = 50'
IP-10

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	12.0/19.8	238	319

8-3-09
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.

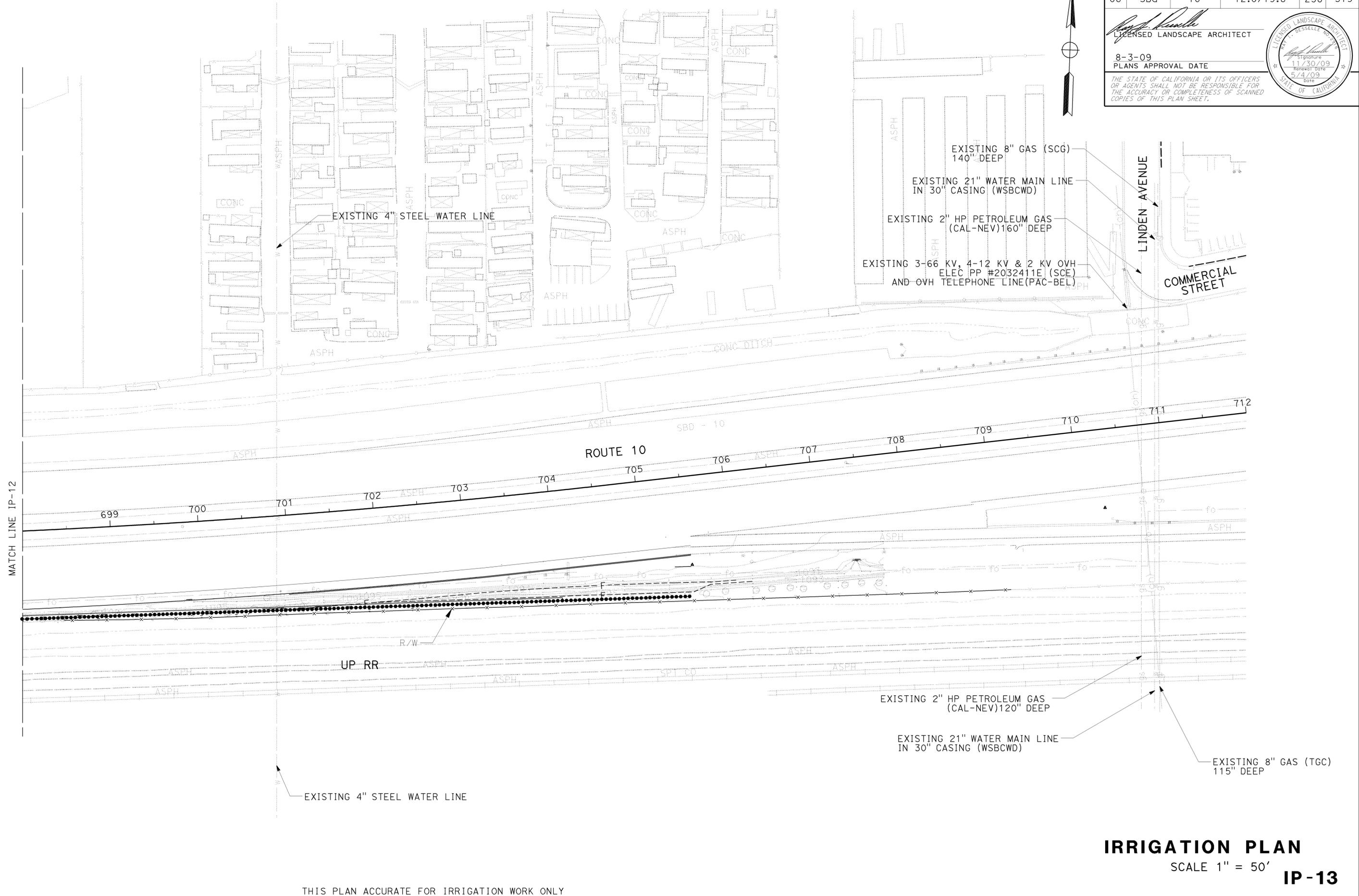
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT
RAY DESSELLE

CALCULATED/DESIGNED BY
CHECKED BY

CHARLES MOFFETT
RAY DESSELLE

REVISED BY
DATE REVISED



IRRIGATION PLAN
SCALE 1" = 50'
IP-13

THIS PLAN ACCURATE FOR IRRIGATION WORK ONLY



USERNAME => trlenard
DGN FILE => 8497501013.dgn

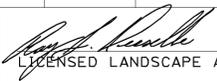
CU 08341
EA 497501

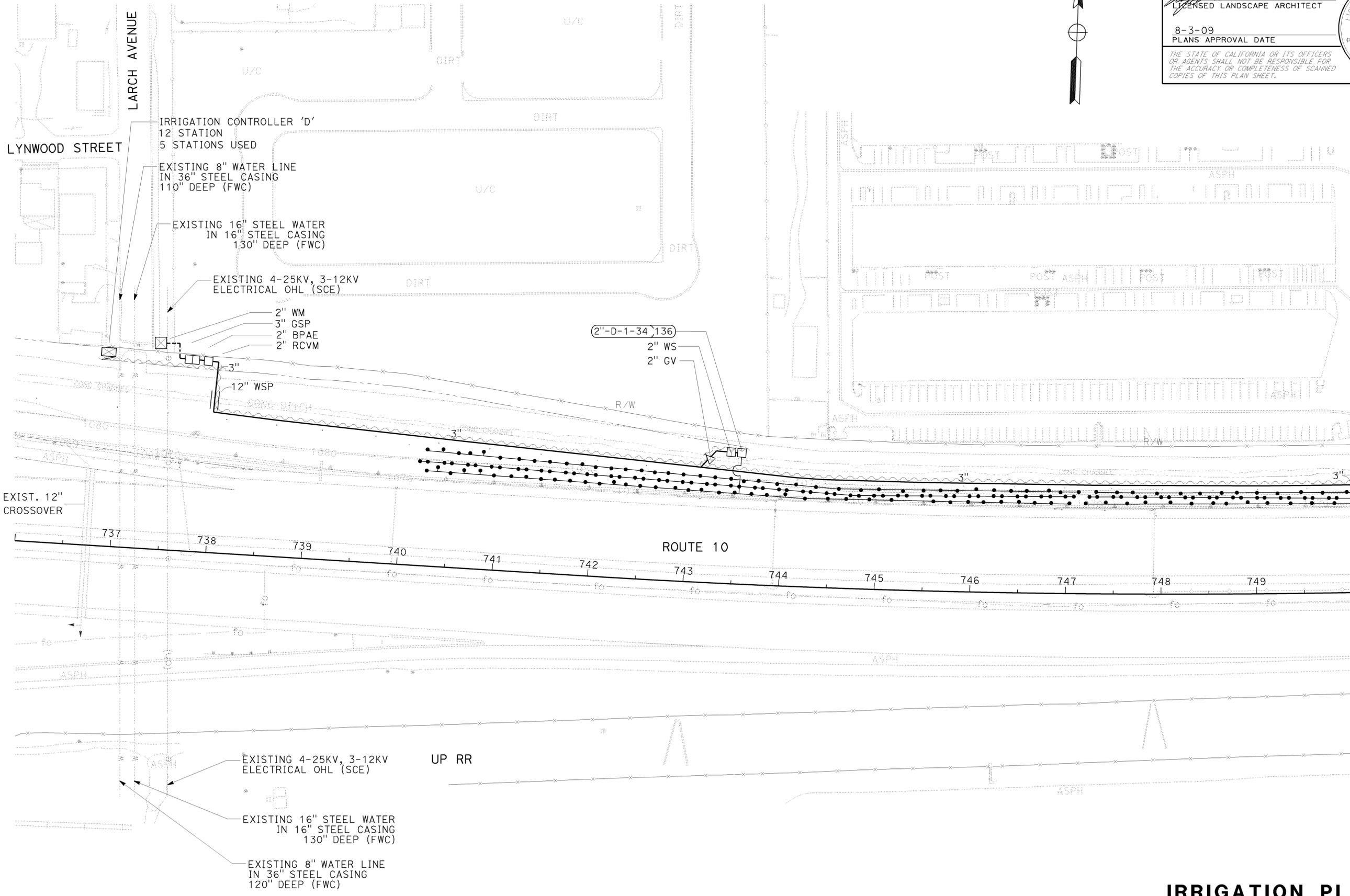
BORDER LAST REVISED 4/11/2008

LAST REVISION: 05-04-09
DATE PLOTTED => 06-AUG-2009
TIME PLOTTED => 10:15

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	12.0/19.8	239	319


 LICENSED LANDSCAPE ARCHITECT
 8-3-09
 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.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT: RAY DESSELLE
 CALCULATED/DESIGNED BY: RAY DESSELLE
 CHECKED BY:
 CHARLES MOFFETT
 REVISED BY: RAY DESSELLE
 DATE REVISED:

IRRIGATION PLAN
SCALE 1" = 50'
IP-14



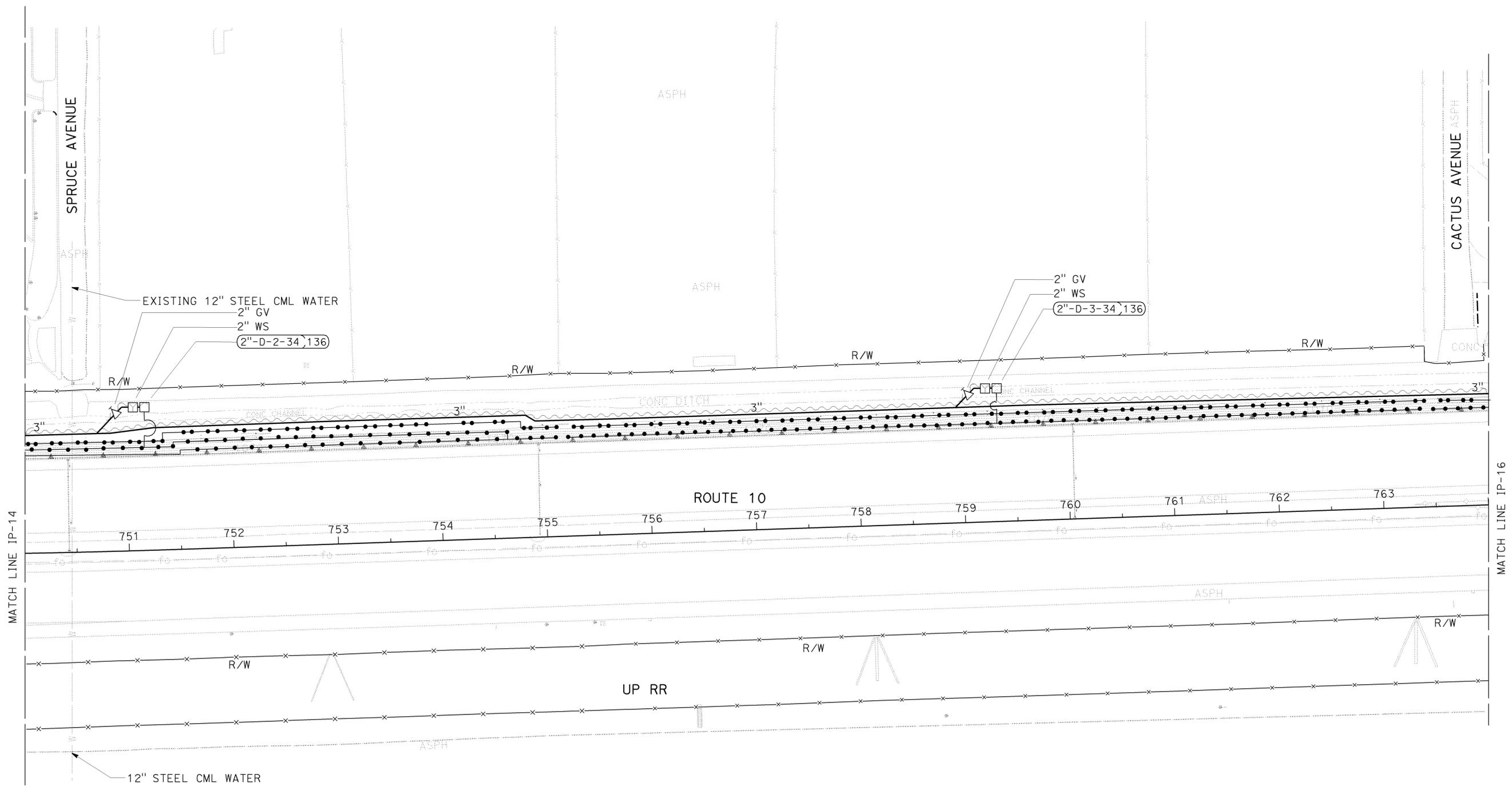
NOTE: FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA,
SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	12.0/19.8	240	319

Ray Deselle
 LICENSED LANDSCAPE ARCHITECT
 8-3-09
 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.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
 RAY DESSELLE
 CALCULATED/DESIGNED BY
 CHECKED BY
 CHARLES MOFFETT
 RAY DESSELLE
 REVISED BY
 DATE REVISED



IRRIGATION PLAN
SCALE 1" = 50'
IP-15

THIS PLAN ACCURATE FOR IRRIGATION WORK ONLY

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE
IS IN INCHES



USERNAME => trlenard
DGN FILE => 849750+1015.dgn

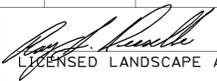
CU 08341

EA 497501

LAST REVISION | DATE PLOTTED => 06-AUG-2009
 05-04-09 | TIME PLOTTED => 10:15

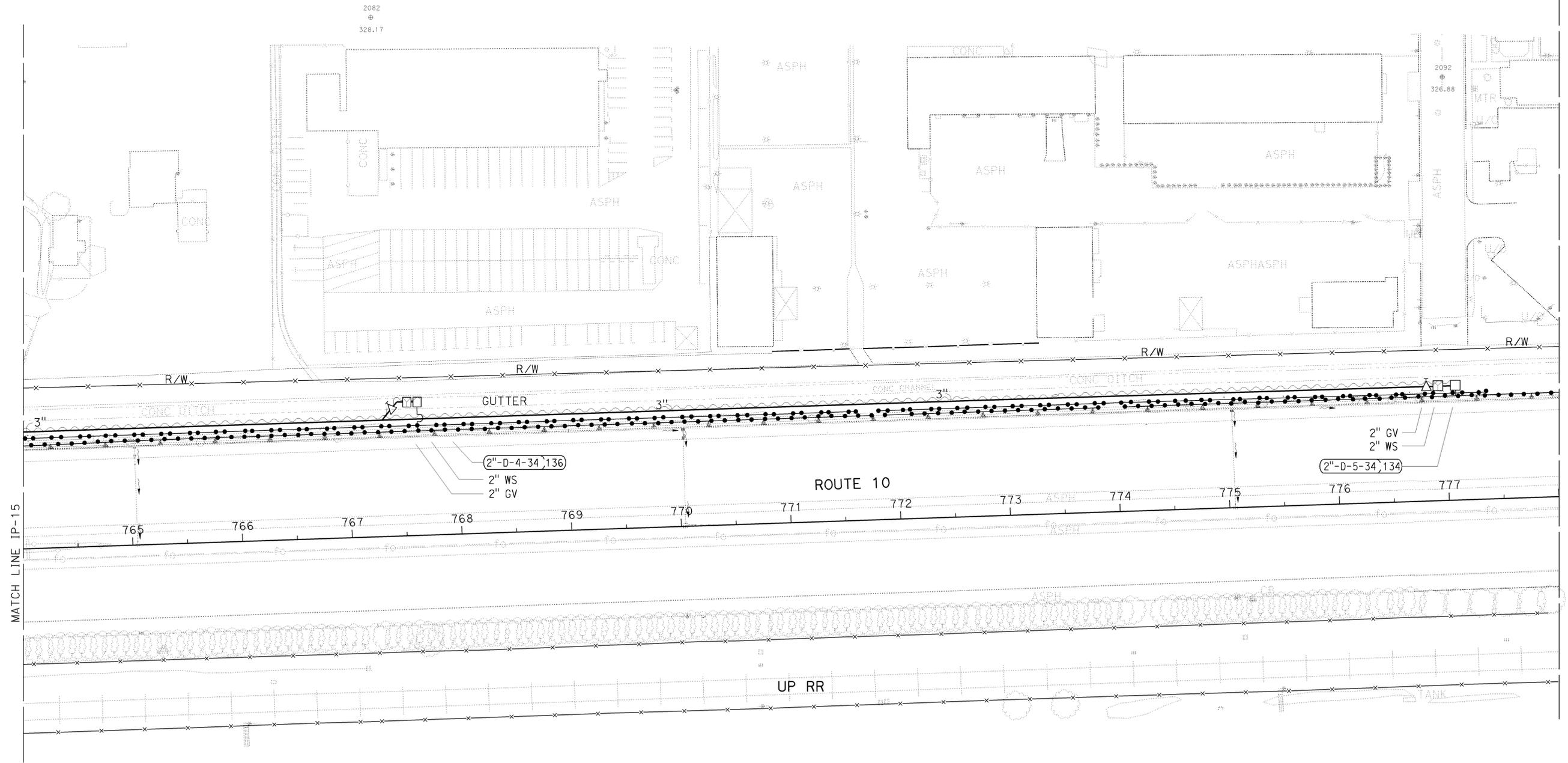
NOTE: FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA,
SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	12.0/19.8	241	319


 LICENSED LANDSCAPE ARCHITECT
 8-3-09
 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.




STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
 RAY DESSELLE
 CALCULATED/DESIGNED BY
 CHECKED BY
 CHARLES MOFFETT
 RAY DESSELLE
 REVISED BY
 DATE REVISED



IRRIGATION PLAN
SCALE 1" = 50'
IP-16

THIS PLAN ACCURATE FOR IRRIGATION WORK ONLY



USERNAME => trlenard
DGN FILE => 8497501016.dgn

CU 08341
EA 497501

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	12.0/19.8	242	319

Ray Deselle
LICENSED LANDSCAPE ARCHITECT

8-3-09
PLANS APPROVAL DATE

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COPIES OF THIS PLAN SHEET.



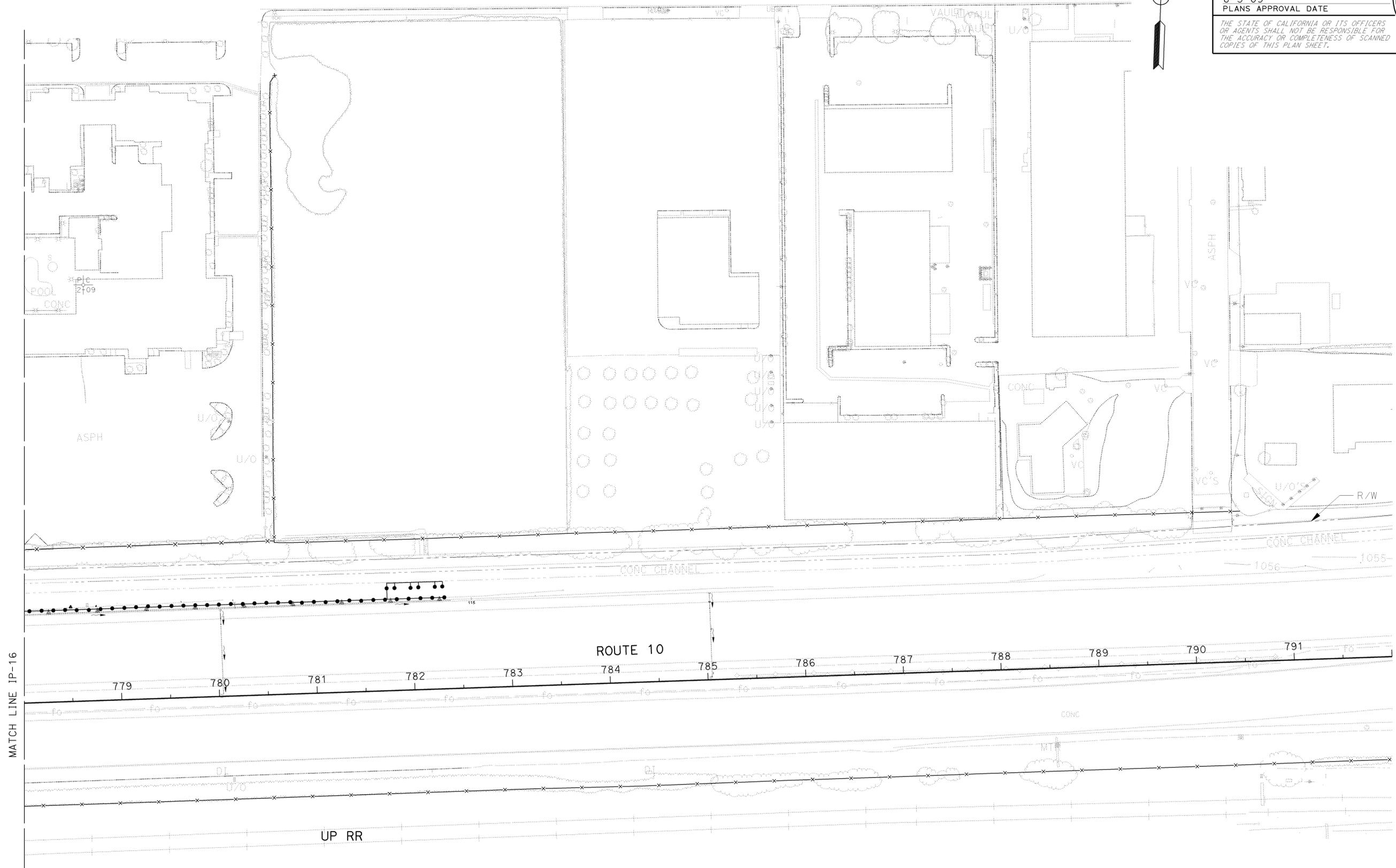
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT
RAY DESSELLE

CALCULATED/DESIGNED BY
CHECKED BY

CHARLES MOFFETT
RAY DESSELLE

REVISED BY
DATE REVISED



IRRIGATION PLAN
SCALE 1" = 50'
IP-17

THIS PLAN ACCURATE FOR IRRIGATION WORK ONLY



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	12.0/19.8	244	319

Katherine Dinh 5-4-09
 REGISTERED ELECTRICAL ENGINEER DATE
 8-3-09
 PLANS APPROVAL DATE

KATHERINE DINH
 No. E17157
 Exp. 09/30/09
 ELECTRICAL
 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.



PROJECT NOTES (THIS SHEET ONLY):

- 1 EXISTING 120/240 V, 1Ø, 3-WIRE, TYPE III-CF SERVICE EQUIPMENT ENCLOSURE WITH THE FOLLOWING CIRCUIT BREAKERS:
 - METER A: 100 A, 240 V, 2P, CB. MAIN BREAKER (LS-3)
 - 15 A, 240 V, 2P, CB. (SPARE)
 - 30 A, 240 V, 2P, CB. (SIGN)
 - 15 A, 240 V, 2P, CB. (PEC)
 - 30 A, 240 V, 2P, CB. (LTG)
 - METER B: 100 A, 240 V, 2P, CB. MAIN BREAKER (TC-1)
 - 15 A, 120 V, 1P, CB. (IRRIGATION)
 - 15 A, 120 V, 1P, CB. (IRRIGATION)
 - 15 A, 120 V, 1P, CB. (CAM)
 - 20 A, 120 V, 1P, CB. (CCTV CABINET)
- 2 EXISTING MODEL 334 CABINET.
 - 3 EXISTING IRRIGATION CONTROLLER ENCLOSURE CABINET.
 - 4 RC EXISTING PULL BOXES AND AB ASSOCIATED EXISTING CONDUIT.

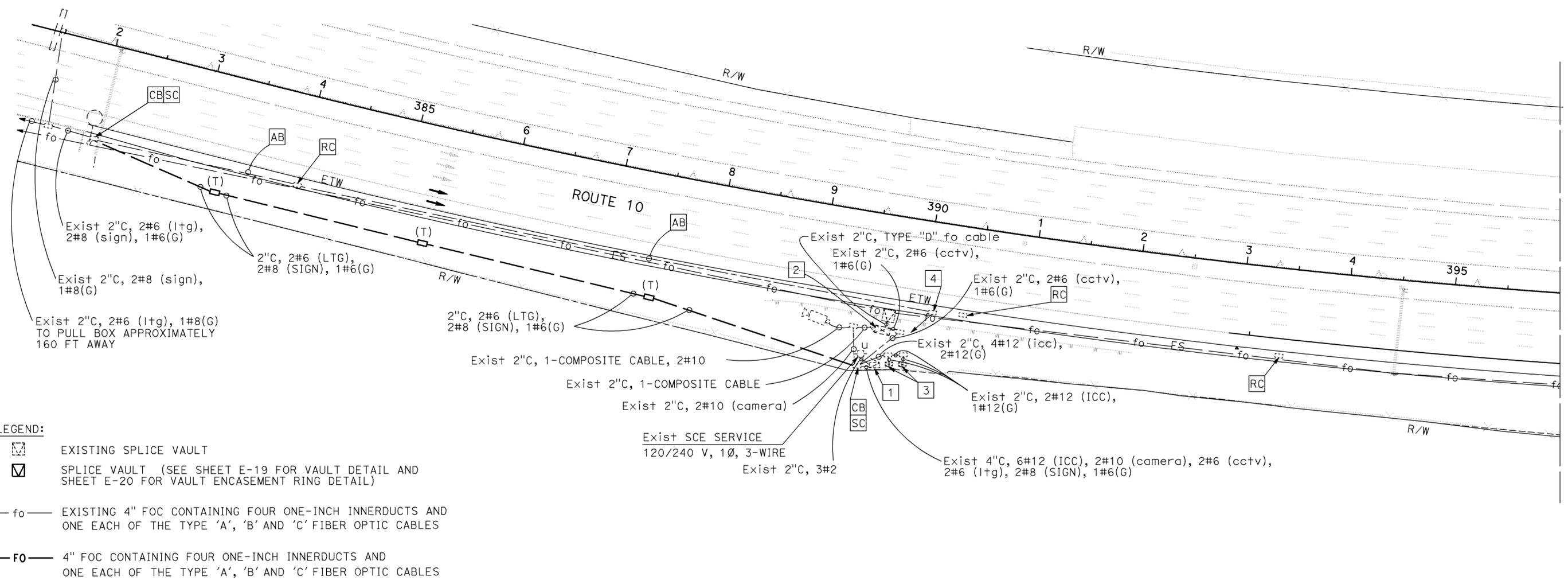
GENERAL:

1. FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT DISTRICT OFFICE.

ABBREVIATIONS:

- SCE - SOUTHERN CALIFORNIA EDISON
- TC-1 - SCE TRAFFIC CONTROL RATE
- LS-3 - SCE LIGHTING RATE
- GS-1 - SCE IRRIGATION RATE
- WIM - WEIGH IN MOTION
- wim - EXISTING WEIGH IN MOTION
- STC - SCREENED TRANSMISSION CABLE
- stc - EXISTING SCREENED TRANSMISSION CABLE
- SLC - SCALE LEAD IN CABLE
- slc - EXISTING SCALE LEAD IN CABLE
- FOC - FIBER OPTIC CONDUIT

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ELECTRICAL DESIGN B
 FUNCTIONAL SUPERVISOR: FERDINAND DE LA CRUZ
 WALEED ABOUL-HOSN: KATHERINE DINH
 REVISIONS: 1-30-09
 REVISIONS: DATE REVISIONS: DATE REVISIONS:



LEGEND:

- EXISTING SPLICE VAULT
- SPLICE VAULT (SEE SHEET E-19 FOR VAULT DETAIL AND SHEET E-20 FOR VAULT ENCASEMENT RING DETAIL)
- EXISTING 4" FOC CONTAINING FOUR ONE-INCH INNERDUCTS AND ONE EACH OF THE TYPE 'A', 'B' AND 'C' FIBER OPTIC CABLES
- 4" FOC CONTAINING FOUR ONE-INCH INNERDUCTS AND ONE EACH OF THE TYPE 'A', 'B' AND 'C' FIBER OPTIC CABLES

MODIFY LIGHTING AND SIGN ILLUMINATION

SCALE: 1" = 50'

E-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	12.0/19.8	245	319

Katherine Dinh 7-7-09	
REGISTERED ELECTRICAL ENGINEER	DATE
8-3-09	
PLANS APPROVAL DATE	

KATHERINE DINH	
No. E17157	Exp. 09/30/09
ELECTRICAL	

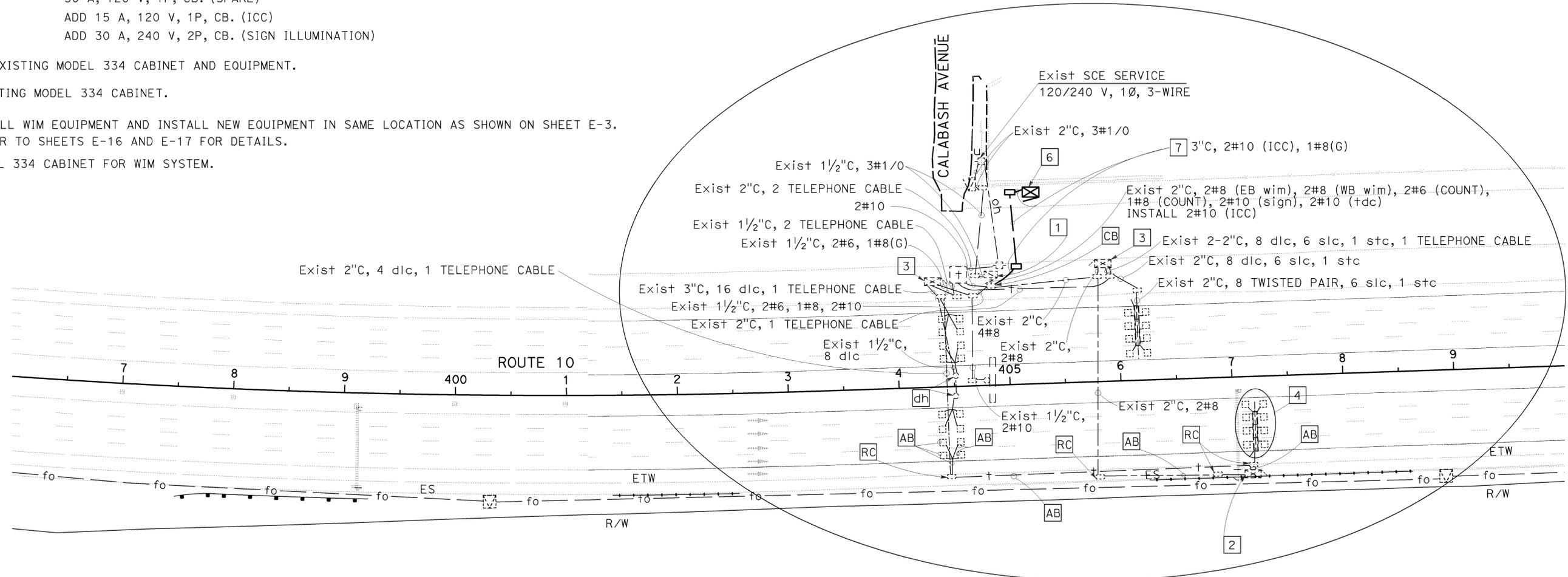
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

PROJECT NOTES (SHEETS E-2 AND E-3):

- 1 EXISTING 120/240 V, 1Ø, 3-WIRE, TYPE III-AF SERVICE EQUIPMENT ENCLOSURE WITH THE FOLLOWING CIRCUIT BREAKERS:
(ADDRESS: 10281 CALABASH, FONTANA, CA)
CALTRANS ID No. 08540100012437M (METER No. 208-572466)
METER A: 100 A, 240 V, 2P, CB. MAIN BREAKER (TC-1)
RC 15 A, 120 V, 1P, CB. (SIGN ILLUMINATION)
30 A, 120 V, 1P, CB. (WIM EB)
30 A, 120 V, 1P, CB. (WIM WB)
30 A, 120 V, 1P, CB. (TDC)
30 A, 120 V, 1P, CB. (COUNT STATION)
30 A, 120 V, 1P, CB. (SPARE)
ADD 15 A, 120 V, 1P, CB. (ICC)
ADD 30 A, 240 V, 2P, CB. (SIGN ILLUMINATION)

- 6 IRRIGATION CONTROLLER ENCLOSURE CABINET, INSTALLED BY OTHERS. SEE IRRIGATION PLAN SHEET IP-2.
- 7 SEE DETAIL 'B' ON SHEET E-20.
- 8 RC EXISTING FLUORESCENT LIGHTING. INSTALL 2-ISL.

- 2 RS EXISTING MODEL 334 CABINET AND EQUIPMENT.
- 3 EXISTING MODEL 334 CABINET.
- 4 RC ALL WIM EQUIPMENT AND INSTALL NEW EQUIPMENT IN SAME LOCATION AS SHOWN ON SHEET E-3. REFER TO SHEETS E-16 AND E-17 FOR DETAILS.
- 5 MODEL 334 CABINET FOR WIM SYSTEM.



GENERAL NOTE:

1. FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT DISTRICT OFFICE.

REFER TO SHEET E-3 FOR NEW ELECTRICAL EQUIPMENT

**ELECTRIC SERVICE (IRRIGATION)
MODIFY TRAFFIC MONITORING STATION
MODIFY HIGH SPEED WEIGH-IN-MOTION SYSTEM
(EXISTING SYSTEMS)**

SCALE: 1" = 50'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ELECTRICAL DESIGN B
 FUNCTIONAL SUPERVISOR: FERDINAND DE LA CRUZ
 CALCULATED/DESIGNED BY: [blank] CHECKED BY: [blank]
 WALEED ABOUL-HOSN KATHERINE DINH
 REVISED BY: [blank] DATE REVISED: 1-30-09
 KD 1-30-09

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	12.0/19.8	247	319

Katherine Dinh 5-4-09
 REGISTERED ELECTRICAL ENGINEER DATE
 8-3-09
 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.



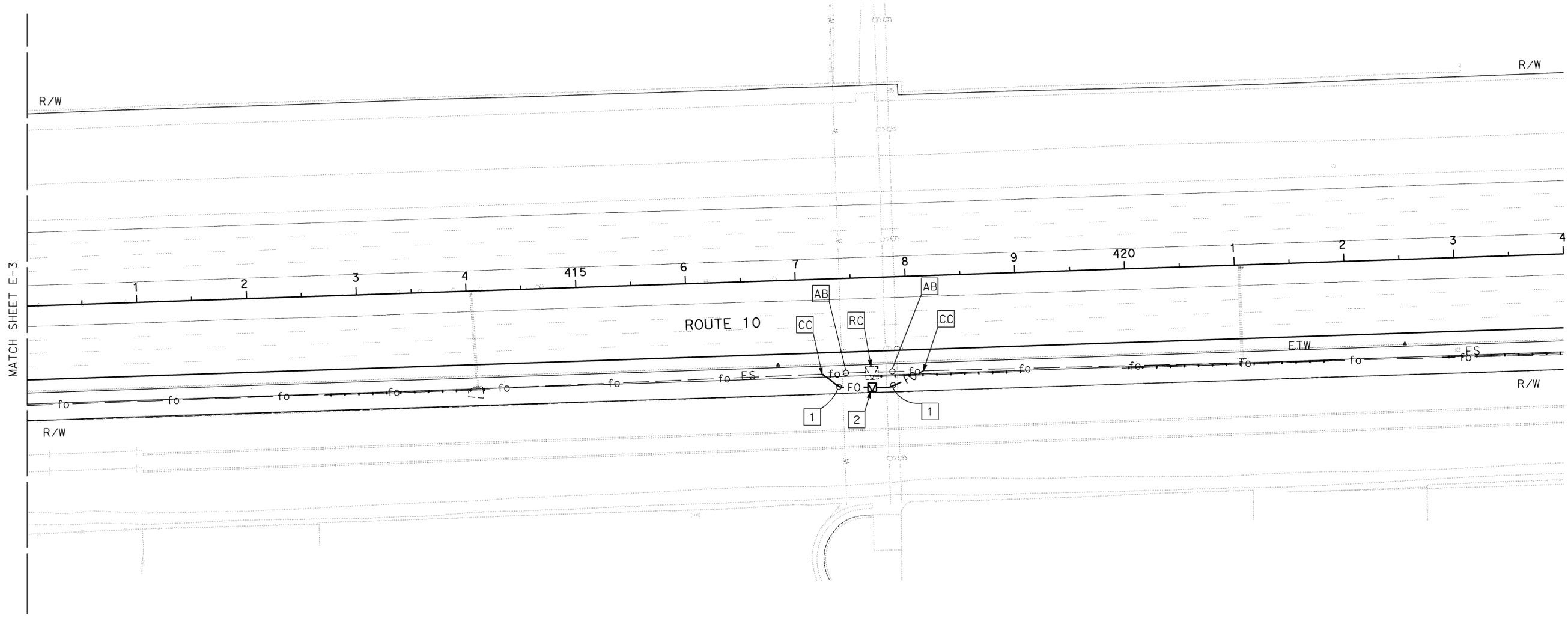
NOTES-THIS SHEET ONLY:

- INSTALL 4" SPLIT FIBER OPTIC CONDUIT WITH FOUR 1" SPLIT INNERDUCTS. CONNECT SPLIT CONDUIT AND INNERDUCTS TO EXISTING FIBER OPTIC CONDUIT. PLACE EXISTING TYPE 'A', 'B' AND 'C' FIBER OPTIC CABLES FROM CONDUIT TO BE [AB] INTO THE NEW SPLIT FIBER OPTIC CONDUITS/INNERDUCTS. COIL EXCESS TYPES 'A', 'B' AND 'C' FIBER OPTIC CABLES INTO THE NEW SPLICE VAULT.
- REFER TO SHEETS E-18 AND E-19 FOR DETAILS.

GENERAL NOTE:

- FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT DISTRICT OFFICE.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® ELECTRICAL DESIGN B
 FUNCTIONAL SUPERVISOR: FERDINAND DE LA CRUZ
 WALEED ABOUL-HOSN
 KATHERINE DINH
 REVISOR: KATHERINE DINH
 DATE: 1-30-09
 DESIGNED BY: FERDINAND DE LA CRUZ
 CHECKED BY: KATHERINE DINH



THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

MODIFY COMMUNICATION SYSTEM
 SCALE: 1" = 50'
E-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® ELECTRICAL DESIGN B

FUNCTIONAL SUPERVISOR
 FERDINAND DE LA CRUZ

CALCULATED/DESIGNED BY
 CHECKED BY

WALEED ABOUL-HOSN
 KATHERINE DINH

KD
 1-30-09

REVISED BY
 DATE REVISED

GENERAL NOTES:

1. FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT DISTRICT OFFICE.

PROJECT NOTES (THIS SHEET ONLY):

- 1 IRRIGATION CONTROLLER ENCLOSURE CABINET, LOCATION B INSTALLED BY OTHERS. SEE IRRIGATION PLAN SHEET IP-5.
- 2 SEE DETAIL 'B' ON SHEET E-20.

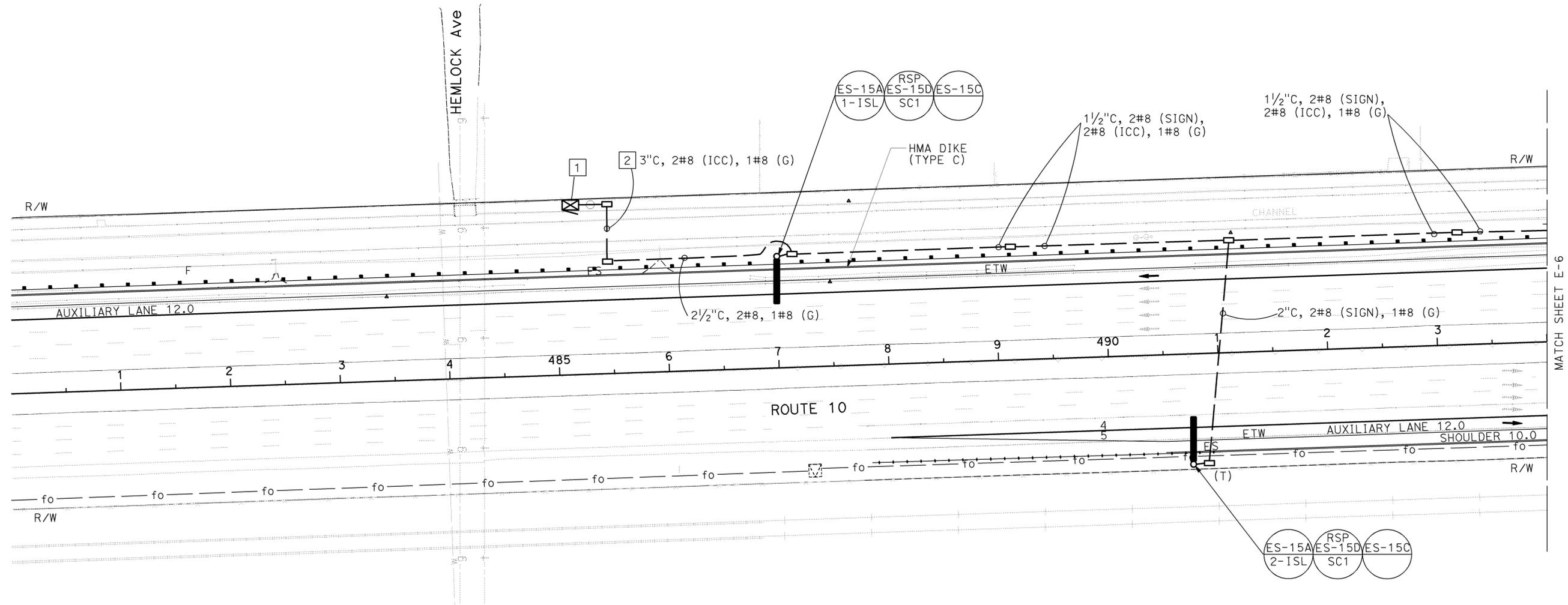
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	12.0/19.8	248	319

Katherine Dinh 5-4-09
 REGISTERED ELECTRICAL ENGINEER DATE

8-3-09
 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.

REGISTERED PROFESSIONAL ENGINEER
 KATHERINE DINH
 No. E17157
 Exp. 09/30/09
 ELECTRICAL
 STATE OF CALIFORNIA



**ELECTRIC SERVICE (IRRIGATION)
 MODIFY LIGHTING AND SIGN ILLUMINATION**
 SCALE: 1" = 50'
E-5

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® ELECTRICAL DESIGN B

FUNCTIONAL SUPERVISOR: FERDINAND DE LA CRUZ
 CALCULATED/DESIGNED BY: WALEED ABOUL-HOSN
 CHECKED BY: KATHERINE DINH
 REVISIONS: 1-30-09
 REVISIONS: 1-30-09

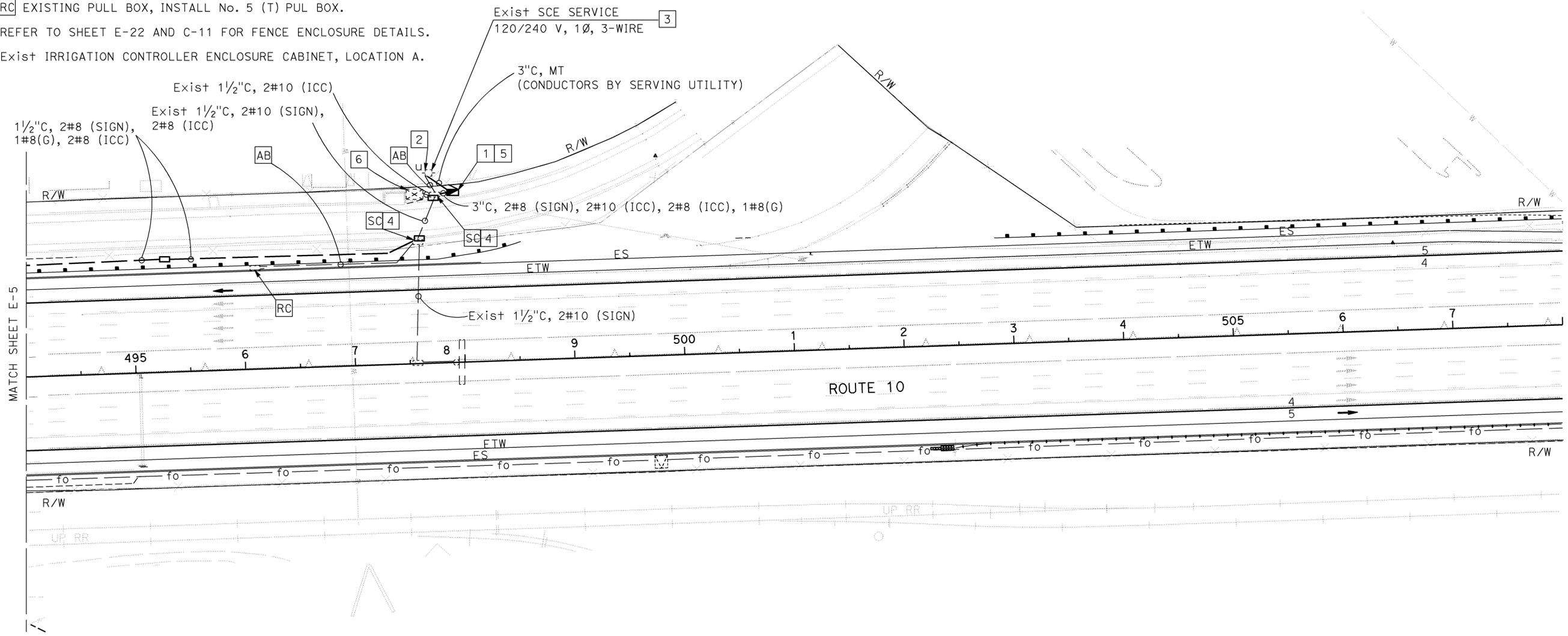
PROJECT NOTES-THIS SHEET ONLY:

- 1 INSTALL 120/240 V, 1Ø, 3-WIRE, TYPE III-CF SERVICE EQUIPMENT ENCLOSURE AS PER RSP ES-2C AND PER RSP ES-2F, WITH THE FOLLOWING CIRCUIT BREAKERS: (ADDRESS: 10293 BEECH Ave, FONTANA, CA 92335)
 CALTRANS ID No. 08540100014198M
 METER A: 100 A, 240 V, 2P, CB. MAIN BREAKER (LS-3)
 30 A, 240 V, 2P, CB. (SIGN ILLUMINATION)
 15 A, 120 V, 1P, CB. (SIGN ILLUMINATION CONTROL)
 CALTRANS ID No. 08540100014198M
 METER B: 100 A, 240 V, 2P, CB. MAIN BREAKER (GS-1)
 15 A, 120 V, 1P, CB. (IRRIGATION), LOCATION A
 15 A, 120 V, 1P, CB. (IRRIGATION), LOCATION B

GENERAL NOTE:

- 1. FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT DISTRICT OFFICE.

- 2 RC EXISTING TYPE SCE-2 SERVICE
- 3 INSTALL TYPE 'H' SERVICE
- 4 RC EXISTING PULL BOX, INSTALL No. 5 (T) PUL BOX.
- 5 REFER TO SHEET E-22 AND C-11 FOR FENCE ENCLOSURE DETAILS.
- 6 Exist IRRIGATION CONTROLLER ENCLOSURE CABINET, LOCATION A.



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	12.0/19.8	249	319

Katherine Dinh 5-4-09
 REGISTERED ELECTRICAL ENGINEER DATE

8-3-09
 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.

REGISTERED PROFESSIONAL ENGINEER
 KATHERINE DINH
 No. E17157
 Exp. 09/30/09
 ELECTRICAL
 STATE OF CALIFORNIA



**ELECTRIC SERVICE (IRRIGATION)
 MODIFY LIGHTING AND SIGN ILLUMINATION**

SCALE: 1" = 50'

E-6

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	12.0/19.8	250	319

<i>Katherine Dinh</i>	5-4-09
REGISTERED ELECTRICAL ENGINEER	DATE
8-3-09	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
KATHERINE DINH
No. E17157
Exp. 09/30/09
ELECTRICAL

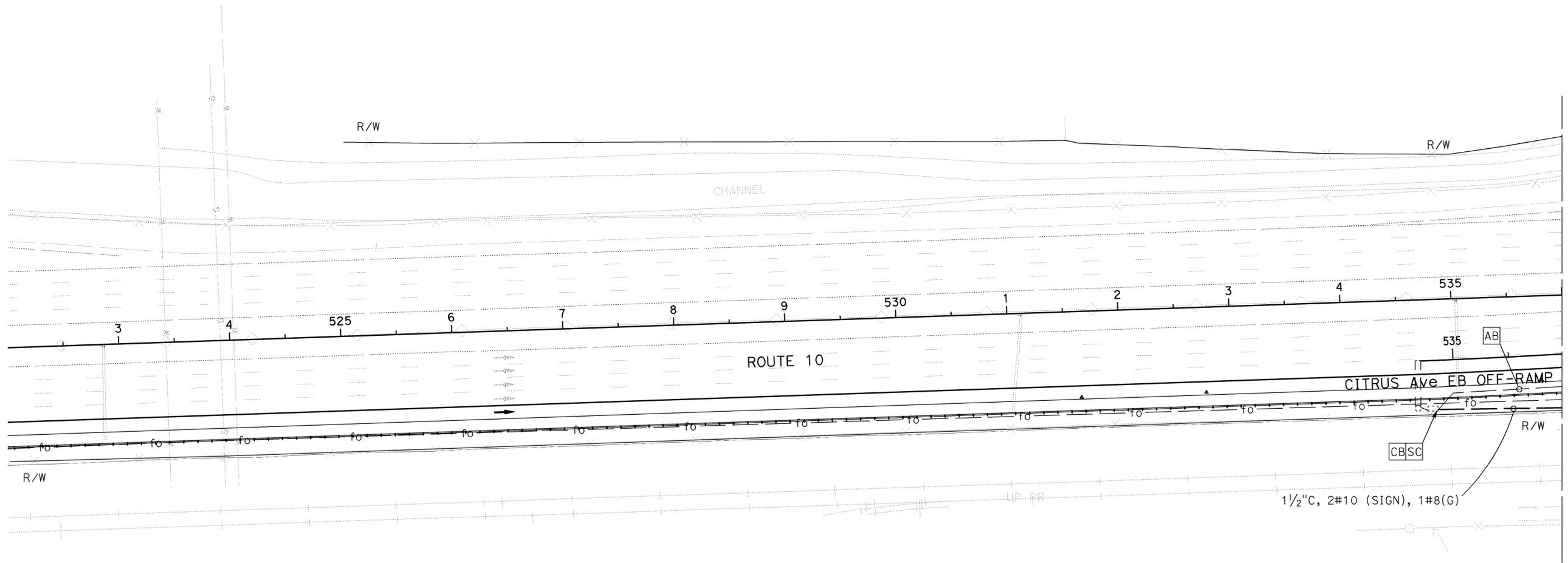
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



GENERAL NOTE:

- FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT DISTRICT OFFICE.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ELECTRICAL DESIGN B
FUNCTIONAL SUPERVISOR FERDINAND DE LA CRUZ
CALCULATED/DESIGNED BY CHECKED BY
WALEED ABOUL-HOSN KATHERINE DINH
REVISED BY DATE REVISED
KD 1-30-09



MODIFY LIGHTING AND SIGN ILLUMINATION

SCALE: 1" = 50'

E-7

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	12.0/19.8	251	319

Katherine Dinh 5-4-09	
REGISTERED ELECTRICAL ENGINEER	DATE
8-3-09	
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>	



PROJECT NOTES-THIS SHEET ONLY:

1. INSTALL 120/240 V, 1Ø, 3-WIRE, TYPE III-CF SERVICE EQUIPMENT ENCLOSURE AS PER RSP ES-2C AND PER RSP ES-2F, WITH THE FOLLOWING CIRCUIT BREAKERS: (ADDRESS: 10279 CATAWBA Ave, FONTANA, CA 92335)

CALTRANS ID No. 08540100014937M

METER A: 100 A, 240 V, 2P, CB. MAIN BREAKER (LS-3)
 40 A, 240 V, 2P, CB. (HIGHWAY LIGHTING)
 30 A, 240 V, 2P, CB. (SIGN ILLUMINATION)
 15 A, 120 V, 1P, CB. (LTG CONTROL)

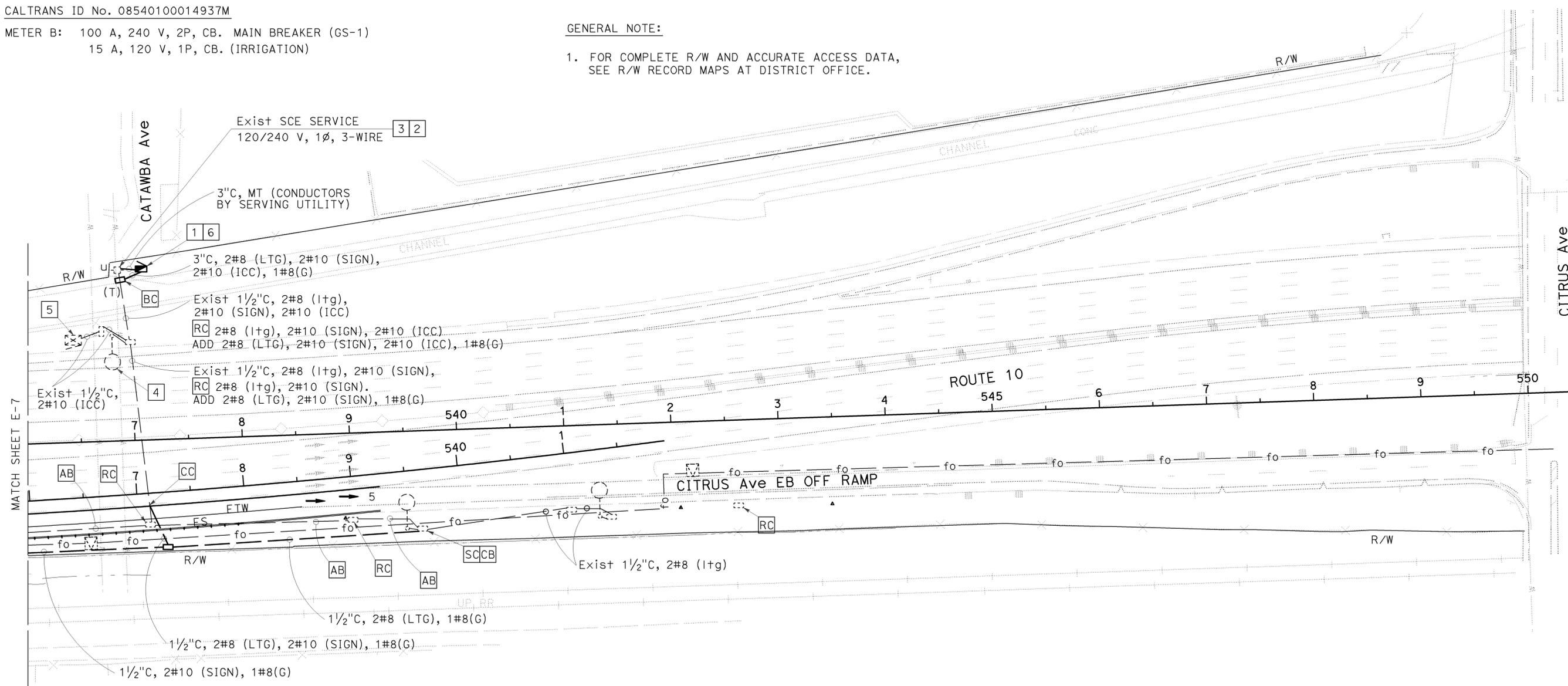
CALTRANS ID No. 08540100014937M

METER B: 100 A, 240 V, 2P, CB. MAIN BREAKER (GS-1)
 15 A, 120 V, 1P, CB. (IRRIGATION)

- 2. RC EXISTING TYPE SCE-2 SERVICE.
- 3. INSTALL TYPE 'H' SERVICE.
- 4. RC EXISTING PEC. INSTALL REMOVABLE RAIN TIGHT CAP.
- 5. EXISTING IRRIGATION CONTROLLER ENCLOSURE CABINET.
- 6. REFER TO SHEET E-22 AND C-11 FOR FENCE ENCLOSURE DETAILS.

GENERAL NOTE:

- 1. FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT DISTRICT OFFICE.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ELECTRICAL DESIGN B
 FUNCTIONAL SUPERVISOR: FERDINAND DE LA CRUZ
 WALEED ABOUL-HOSN
 KATHERINE DINH
 REVISIONS: 1-30-09
 DATE REVISED: 1-30-09
 CHECKED BY: KATHERINE DINH
 CALCULATED/DESIGNED BY: KATHERINE DINH

MODIFY LIGHTING AND SIGN ILLUMINATION

SCALE: 1" = 50'

E-8

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	12.0/19.8	252	319

Katherine Dinh 5-4-09
REGISTERED ELECTRICAL ENGINEER DATE

8-3-09
PLANS APPROVAL DATE

KATHERINE DINH
No. E17157
Exp. 09/30/09
ELECTRICAL

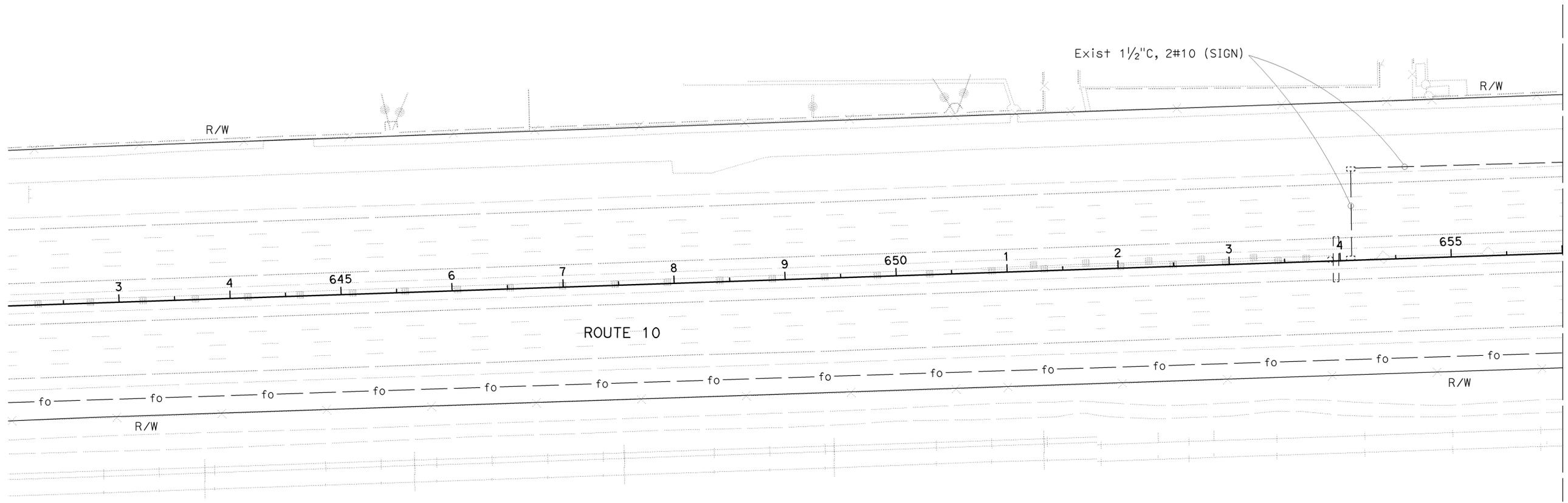
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



GENERAL NOTE:

- FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT DISTRICT OFFICE.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	WALEED ABOUL-HOSN	REVISOR BY	KD
Caltrans ELECTRICAL DESIGN B	FERDINAND DE LA CRUZ	CHECKED BY	KATHERINE DINH	DATE REVISED	1-30-09



MODIFY LIGHTING AND SIGN ILLUMINATION
SCALE: 1" = 50'
E-9

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

PROJECT NOTES-THIS SHEET ONLY:

1. INSTALL 120/240 V, 1Ø, 3-WIRE, TYPE III-CF SERVICE EQUIPMENT ENCLOSURE AS PER RSP ES-2C AND PER RSP ES-2F, WITH THE FOLLOWING CIRCUIT BREAKERS: (ADDRESS: 10194 LOCUST Ave, BLOOMINGTON, CA 92316)

CALTRANS ID No. 08540100017721M

METER A: 100 A, 240 V, 2P, CB. MAIN BREAKER (LS-3)
 40 A, 240 V, 2P, CB. (HIGHWAY LIGHTING)
 30 A, 240 V, 2P, CB. (SIGN ILLUMINATION)
 15 A, 120 V, 1P, CB. (LTG CONTROL)

CALTRANS ID No. 08540100017721M

METER B: 100 A, 240 V, 2P, CB. MAIN BREAKER (GS-1)
 15 A, 120 V, 1P, CB. (IRRIGATION)

- 2. RC EXISTING TYPE SCE-2 SERVICE. INSTALL TYPE 'H' SERVICE.
- 3. IRRIGATION CONTROLLER ENCLOSURE CABINET, INSTALLED BY OTHERS. SEE IRRIGATION PLAN SHEET IP-12.
- 4. REFER TO SHEET E-22 AND C-11 FOR FENCE ENCLOSURE DETAILS.

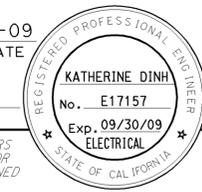
GENERAL NOTE:

1. FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	12.0/19.8	254	319

Katherine Dinh 5-4-09
 REGISTERED ELECTRICAL ENGINEER DATE

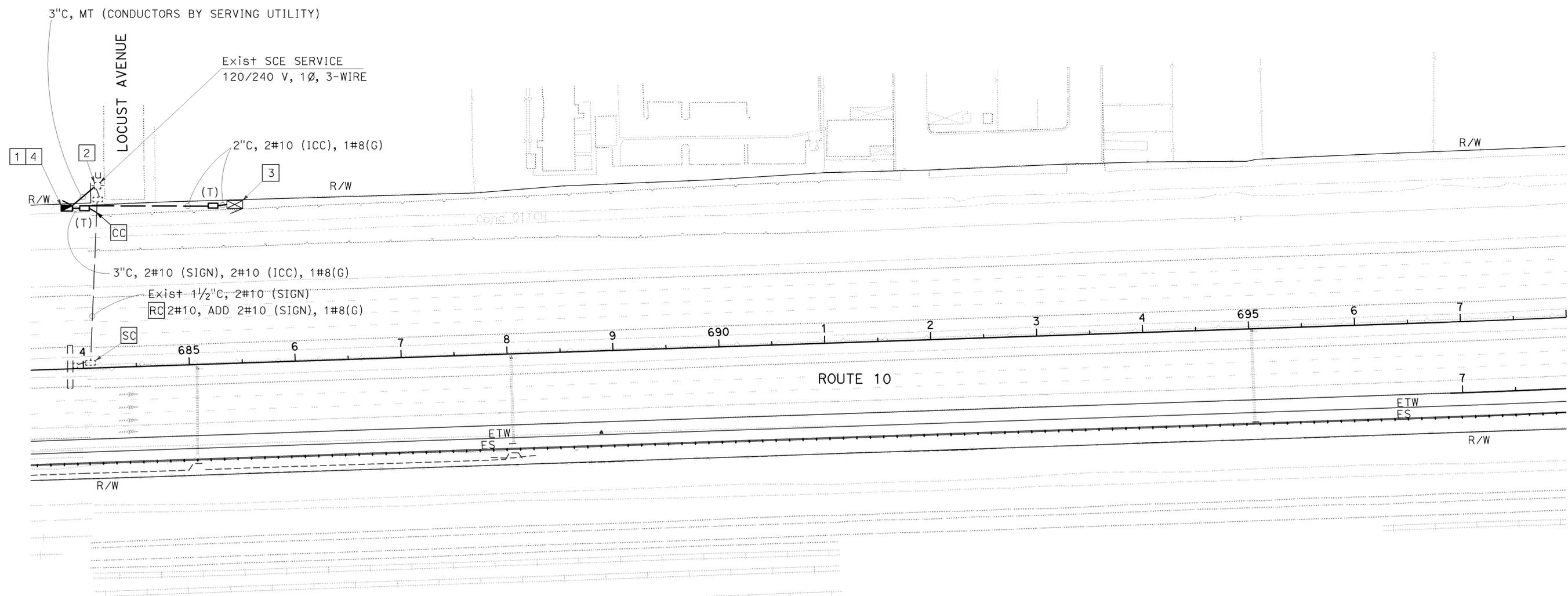
8-3-09
 PLANS APPROVAL DATE



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.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ELECTRICAL DESIGN B
 FUNCTIONAL SUPERVISOR: FERDINAND DE LA CRUZ
 WALEED ABOUL-HOSN
 KATHERINE DINH
 REVISIONS: 1-30-09
 DATE REVISED: 1-30-09
 CHECKED BY: KATHERINE DINH
 DESIGNED BY: WALEED ABOUL-HOSN



**MODIFY LIGHTING AND SIGN ILLUMINATION
 ELECTRIC SERVICE (IRRIGATION)**

SCALE: 1" = 50'

E-11

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® ELECTRICAL DESIGN B
 FUNCTIONAL SUPERVISOR: FERDINAND DE LA CRUZ
 CALCULATED/DESIGNED BY: [] CHECKED BY: []
 WALEED ABOUL-HOSN KATHERINE DINH
 REVISED BY: DATE REVISED: 1-30-09
 KD 1-30-09

PROJECT NOTES-THIS SHEET ONLY:

1 INSTALL 120/240 V, 1Ø, 3-WIRE, TYPE III-CF SERVICE EQUIPMENT ENCLOSURE AS PER RSP ES-2C AND PER RSP ES-2F, WITH THE FOLLOWING CIRCUIT BREAKERS: (ADDRESS: 10111 LARCH Ave, BLOOMINGTON, CA 92315)

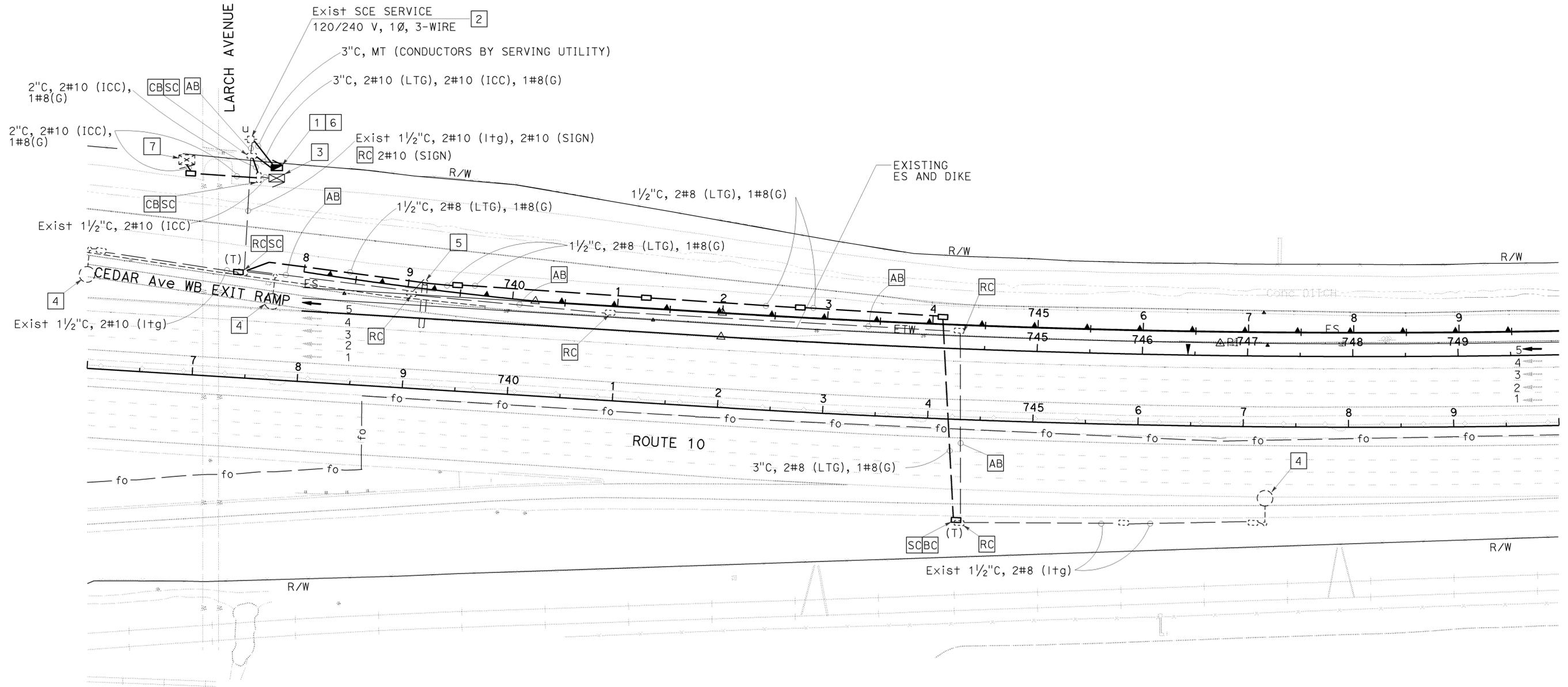
CALTRANS ID No. 08540100018744M
 METER A: 100 A, 240 V, 2P, CB. MAIN BREAKER (LS-3)
 40 A, 240 V, 2P, CB. (HIGHWAY LIGHTING)
 30 A, 240 V, 2P, CB. (SIGN ILLUMINATION)
 15 A, 120 V, 1P, CB. (LTG CONTROL)

CALTRANS ID No. 08540100018744M
 METER B: 100 A, 240 V, 2P, CB. MAIN BREAKER (GS-1)
 15 A, 120 V, 1P, CB. (ICC "C")
 15 A, 120 V, 1P, CB. (ICC EAST)

- 2 RC EXISTING TYPE SCE-2 SERVICE. INSTALL TYPE 'H' SERVICE.
- 3 IRRIGATION CONTROLLER ENCLOSURE CABINET, INSTALLED BY OTHERS. SEE IRRIGATION PLAN SHEET IP-14.
- 4 RS EXISTING LUMINAIRE. INSTALL NEW LUMINAIRE WITH 240 V BALLAST.
- 5 RS EXISTING ELECTRICAL SIGN ILLUMINATION FIXTURES.
- 6 REFER TO SHEET E-22 AND C-11 FOR FENCE ENCLOSURE DETAILS.
- 7 REFER TO IRRIGATION PLANS.

GENERAL NOTE:

1. FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT DISTRICT OFFICE.



**MODIFY LIGHTING AND SIGN ILLUMINATION
 ELECTRIC SERVICE (IRRIGATION)**

SCALE: 1" = 50'

E-12

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	12.0/19.8	255	319

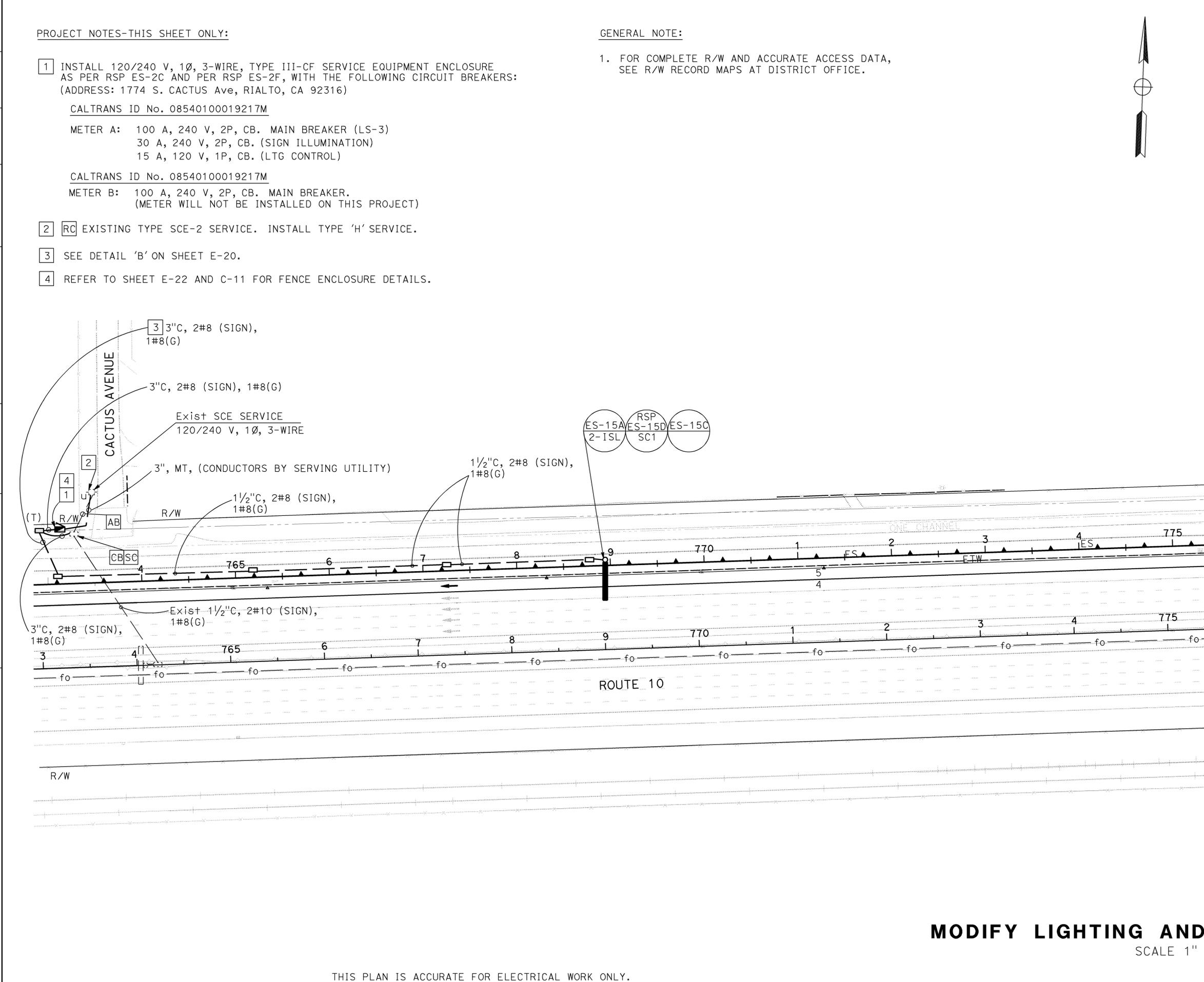
Katherine Dinh 5-4-09
 REGISTERED ELECTRICAL ENGINEER DATE

8-3-09
 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.

REGISTERED PROFESSIONAL ENGINEER
 KATHERINE DINH
 No. E17157
 Exp. 09/30/09
 ELECTRICAL
 STATE OF CALIFORNIA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® ELECTRICAL DESIGN B



PROJECT NOTES-THIS SHEET ONLY:

- 1 INSTALL 120/240 V, 1Ø, 3-WIRE, TYPE III-CF SERVICE EQUIPMENT ENCLOSURE AS PER RSP ES-2C AND PER RSP ES-2F, WITH THE FOLLOWING CIRCUIT BREAKERS: (ADDRESS: 1774 S. CACTUS Ave, RIALTO, CA 92316)
 CALTRANS ID No. 08540100019217M
 METER A: 100 A, 240 V, 2P, CB. MAIN BREAKER (LS-3)
 30 A, 240 V, 2P, CB. (SIGN ILLUMINATION)
 15 A, 120 V, 1P, CB. (LTG CONTROL)
 CALTRANS ID No. 08540100019217M
 METER B: 100 A, 240 V, 2P, CB. MAIN BREAKER.
 (METER WILL NOT BE INSTALLED ON THIS PROJECT)
- 2 RC EXISTING TYPE SCE-2 SERVICE. INSTALL TYPE 'H' SERVICE.
- 3 SEE DETAIL 'B' ON SHEET E-20.
- 4 REFER TO SHEET E-22 AND C-11 FOR FENCE ENCLOSURE DETAILS.

GENERAL NOTE:

1. FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	12.0/19.8	256	319

Katherine Dinh 5-4-09
 REGISTERED ELECTRICAL ENGINEER DATE

8-3-09
 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.

REGISTERED PROFESSIONAL ENGINEER
 KATHERINE DINH
 No. E17157
 Exp. 09/30/09
 ELECTRICAL
 STATE OF CALIFORNIA



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® ELECTRICAL DESIGN B
 FUNCTIONAL SUPERVISOR: FERDINAND DE LA CRUZ
 CALCULATED/DESIGNED BY: KATHERINE DINH
 REVISOR: WALEED ABOUL-HOSN
 DATE: 1-30-09
 CHECKED BY: KATHERINE DINH
 DATE: 1-30-09
 DESIGNED BY: KATHERINE DINH
 DATE: 1-30-09

PROJECT NOTE-THIS SHEET ONLY:

- 1 RC EXISTING LUMINAIRE. INSTALL NEW LUMINAIRE WITH 240 V BALLAST.

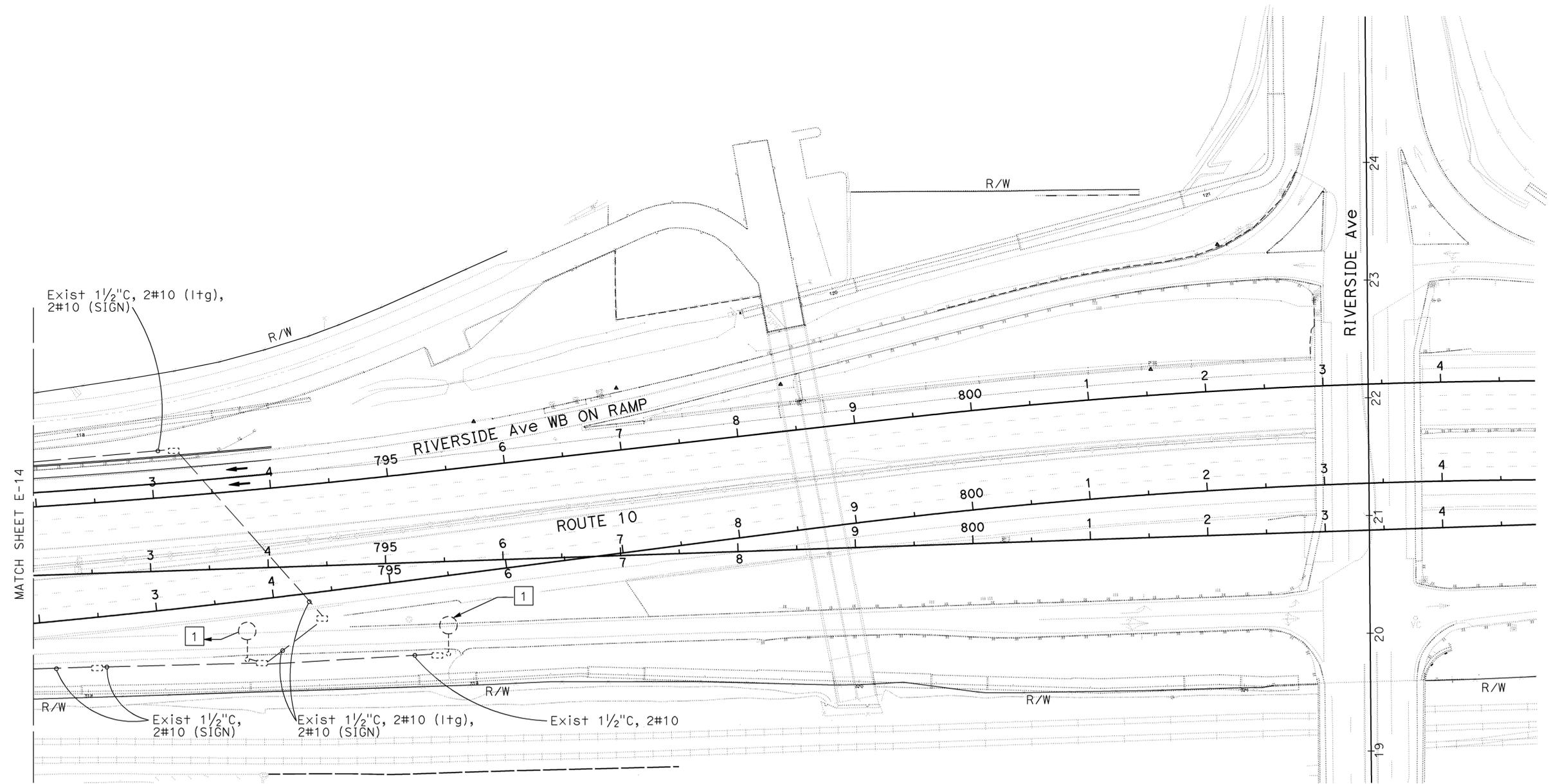
GENERAL NOTE:

- 1. FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W RECORD MAPS AT DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	12.0/19.8	258	319

Katherine Dinh 5-4-09
 REGISTERED ELECTRICAL ENGINEER DATE
 8-3-09
 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.

REGISTERED PROFESSIONAL ENGINEER
 KATHERINE DINH
 No. E17157
 Exp. 09/30/09
 ELECTRICAL
 STATE OF CALIFORNIA



MODIFY LIGHTING AND SIGN ILLUMINATION

SCALE 1" = 50'

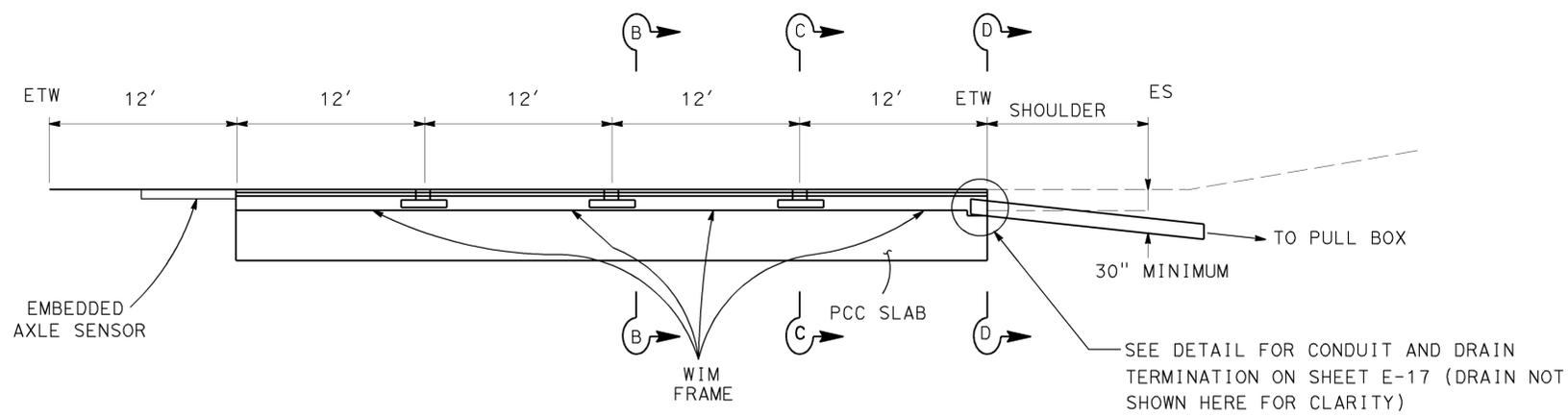
E-15

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

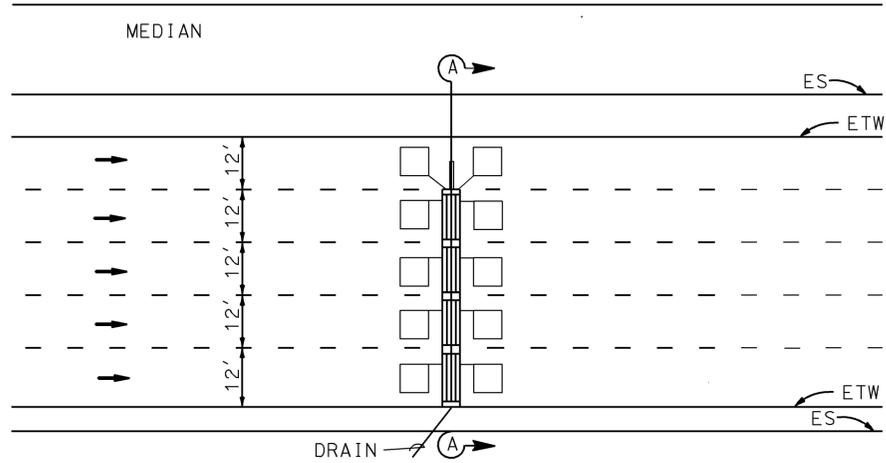
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	12.0/19.8	259	319

Katherine Dinh 5-4-09
 REGISTERED ELECTRICAL ENGINEER DATE
 8-3-09
 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.

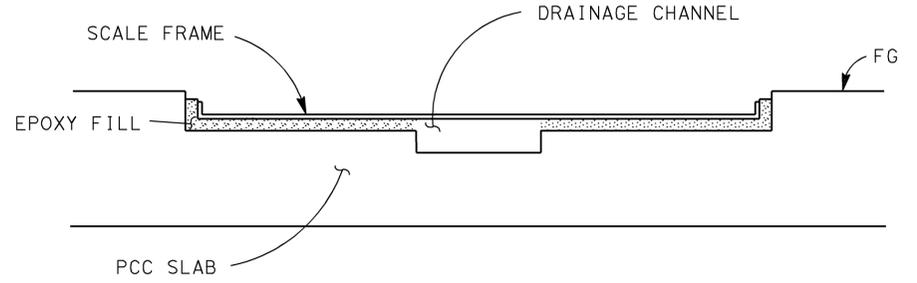
REGISTERED PROFESSIONAL ENGINEER
 KATHERINE DINH
 No. E17157
 Exp. 09/30/09
 ELECTRICAL
 STATE OF CALIFORNIA



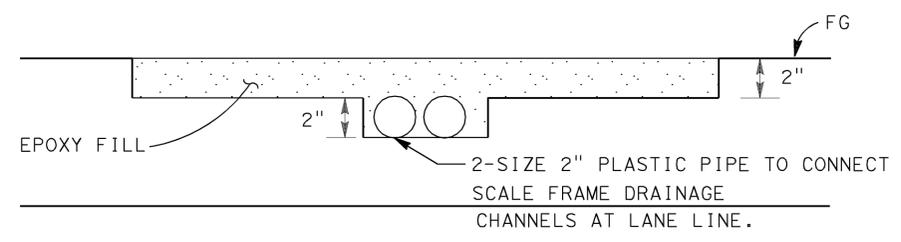
SECTION A-A



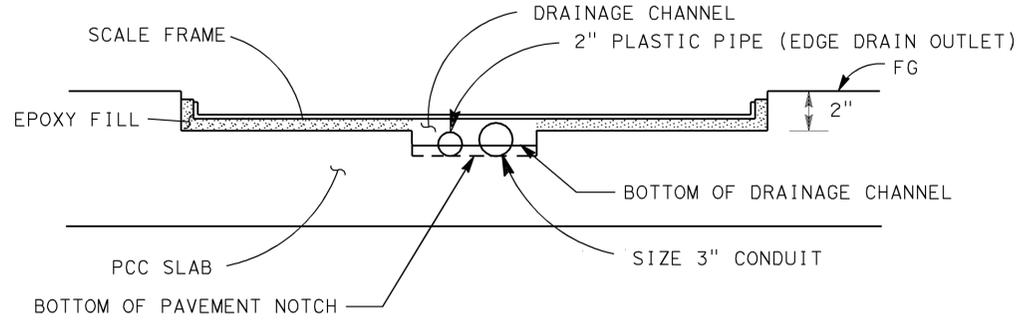
TYPICAL INSTALLATION DETAIL



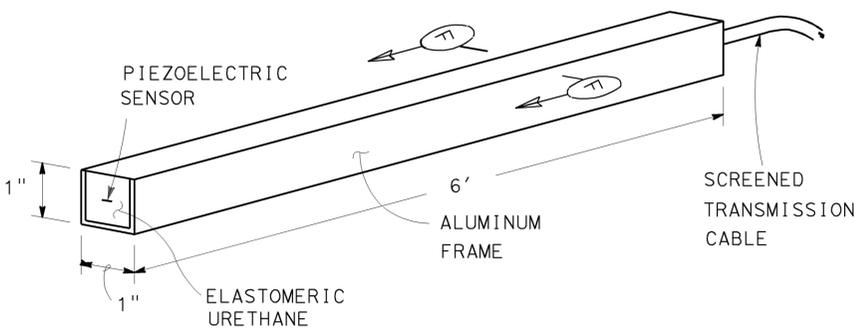
SECTION B-B



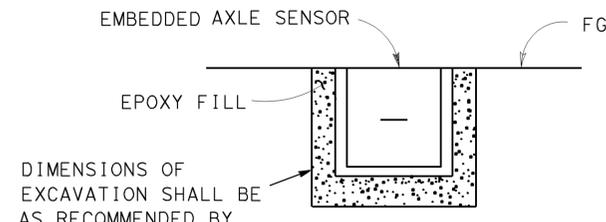
SECTION C-C



SECTION D-D



EMBEDDED AXLE SENSOR



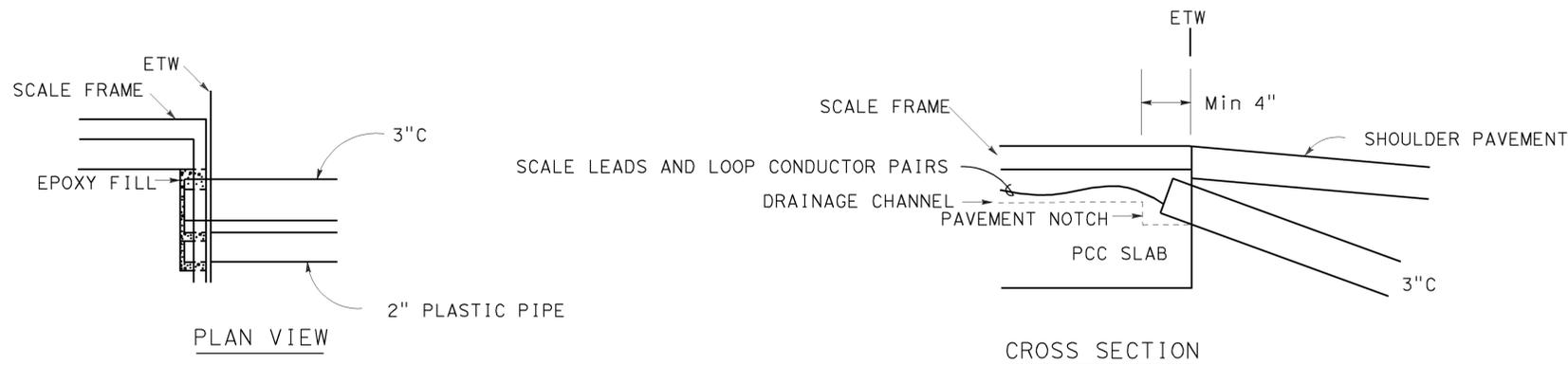
SECTION F-F

- NOTES:**
1. THE EXACT LOCATION OF THE WIM SCALES WILL BE DETERMINED BY THE ENGINEER. THE ENGINEER WILL VERIFY THE FINAL LOCATION OF THE WIM SCALES PRIOR TO THE CONTRACTOR PERFORMING ANY WORK IN THE TRAVELED WAY OR SHOULDERS. STATIONS SHOWN ON THE PLANS ARE APPROXIMATE.
 2. EDGE DRAIN OUTLET SHALL CONFORM TO TYPE C OUTLET WITH OUTLET COVER AS SHOWN ON S+D PLAN D99B EXCEPT THAT PIPE SHALL BE 2".
 3. WIM SCALE TO MATCH EXISTING ROADWAY PROFILE AND CROSS-SLOPE.
 4. EXACT CONFIGURATION AND INSTALLATION PROCEDURES OF SCALE FRAME AND LOOP DETECTORS SHALL CONFORM TO THE REQUIREMENTS OF THE WIM SUPPLIER.

MODIFY HIGH SPEED WEIGH-IN-MOTION SYSTEM (DETAILS)
NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 ELECTRICAL DESIGN B
 FUNCTIONAL SUPERVISOR: FERDINAND DE LA CRUZ
 WALEED ABOUL-HOSN
 KATHERINE DINH
 REVISIONS: 1-30-09
 REVISIONS: 1-30-09
 REVISIONS: 1-30-09

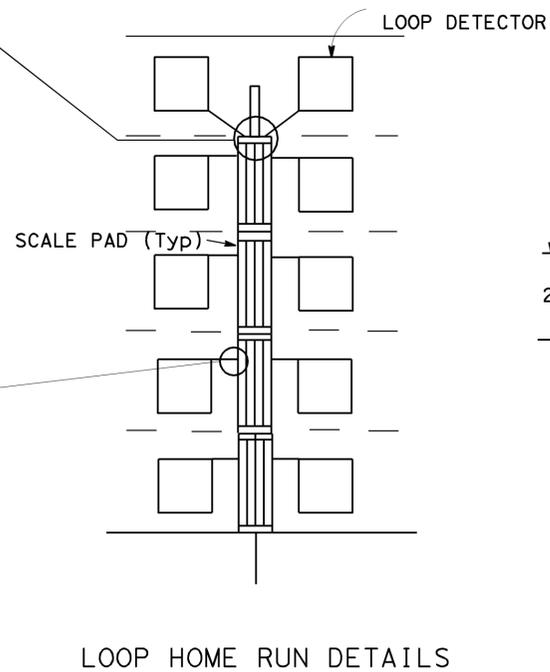
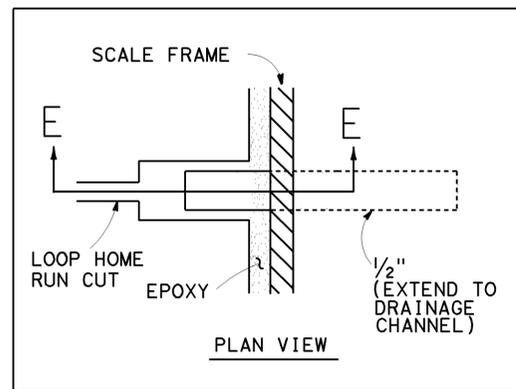
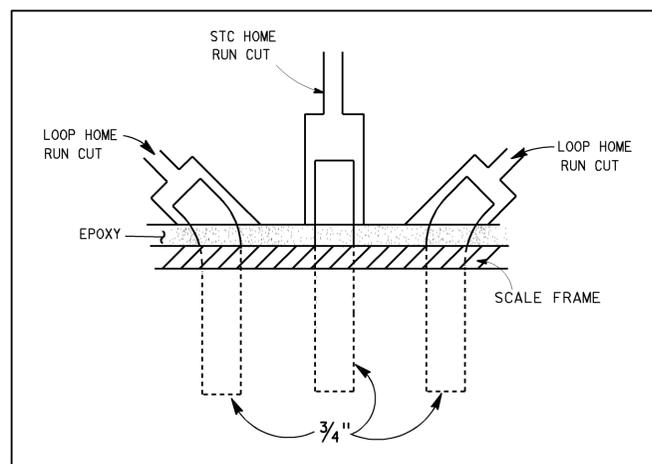
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	12.0/19.8	260	319
<i>Katherine Dinh</i> 5-4-09 REGISTERED ELECTRICAL ENGINEER DATE			REGISTERED PROFESSIONAL ENGINEER KATHERINE DINH No. E17157 Exp. 09/30/09 ELECTRICAL STATE OF CALIFORNIA		
8-3-09 PLANS APPROVAL DATE					
<small>THE 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>					



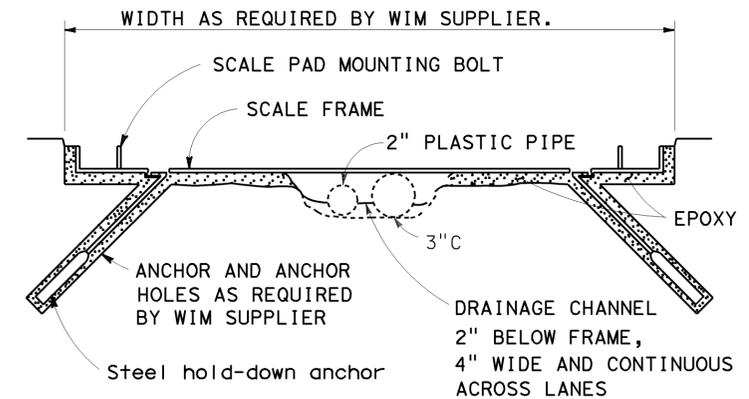
CONDUIT AND DRAIN TERMINATION DETAILS

NOTES:

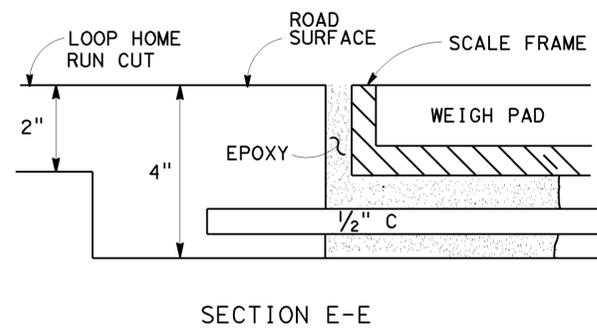
1. NON-METALLIC BUSHING SHALL BE USED AT ROADWAY END OF CONDUIT.
2. TAPE WIRE 3 INCHES EACH SIDE OF ROADWAY BUSHING.
3. INSTALL DUCT SEAL COMPOUND TO EACH END OF ROADWAY CONDUIT BEFORE INSTALLING EPOXY, OR OTHER APPROVED MATERIALS.
4. END OF CONDUIT AND PVC DRAIN RESTS ON BOTTOM OF PAVEMENT NOTCH; CONDUIT BOTTOM MUST BE ABOVE PVC DRAIN BOTTOM.



LOOP HOME RUN DETAILS



SCALE FRAME INSTALLATION DETAIL (TYPICAL)
(DRAIN AND CONDUIT AS SHOWN AT ETW ONLY)



SECTION E-E

MODIFY HIGH SPEED WEIGH-IN-MOTION SYSTEM (DETAILS)

NO SCALE

E-17

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

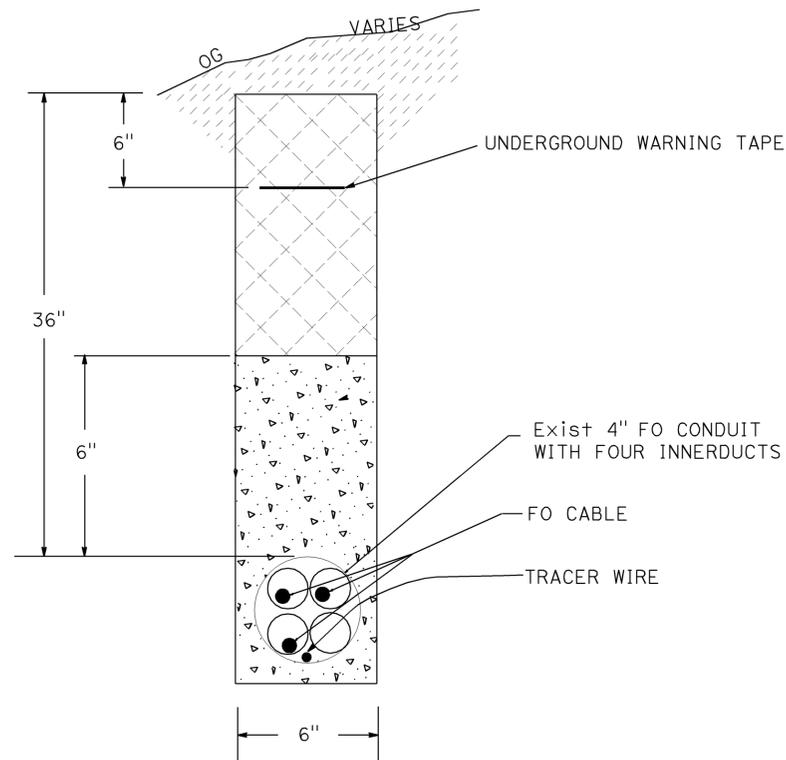
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	12.0/19.8	261	319
Katherine Dinh		5-4-09			
REGISTERED ELECTRICAL ENGINEER		DATE			
8-3-09					
PLANS APPROVAL DATE					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					



NOTE:

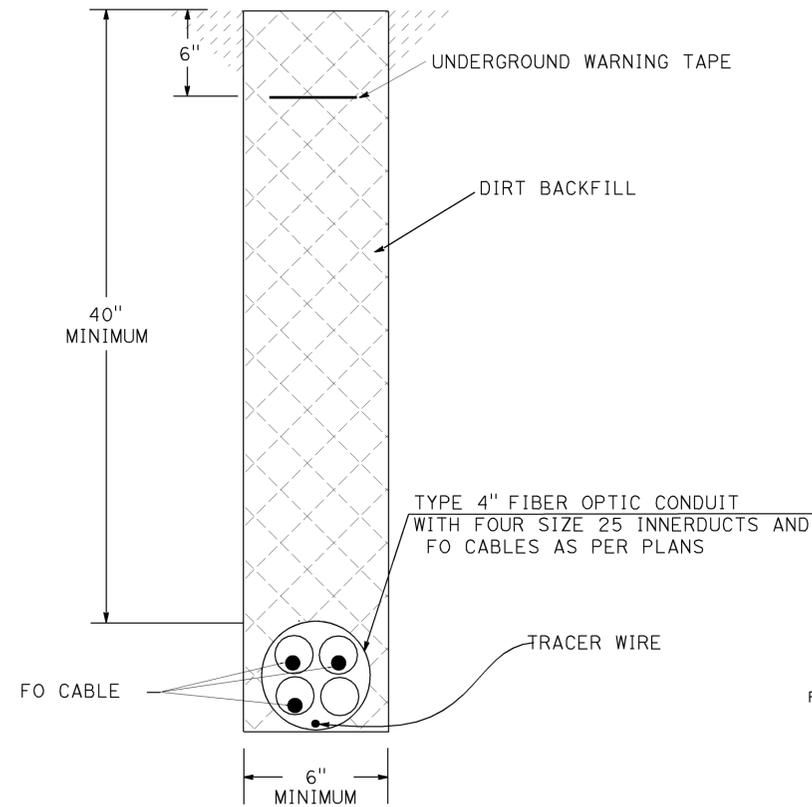
- FIBER OPTIC CONDUIT SHALL BE INSTALLED A MINIMUM OF 3.3 FEET FROM ANY EXISTING/PROPOSED GUARD RAILING.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® ELECTRICAL DESIGN B
 FUNCTIONAL SUPERVISOR: FERDINAND DE LA CRUZ
 WALEED ABOUL-HOSN
 KATHERINE DINH
 REVISIONS: 1-30-09
 REVISIONS: 1-30-09

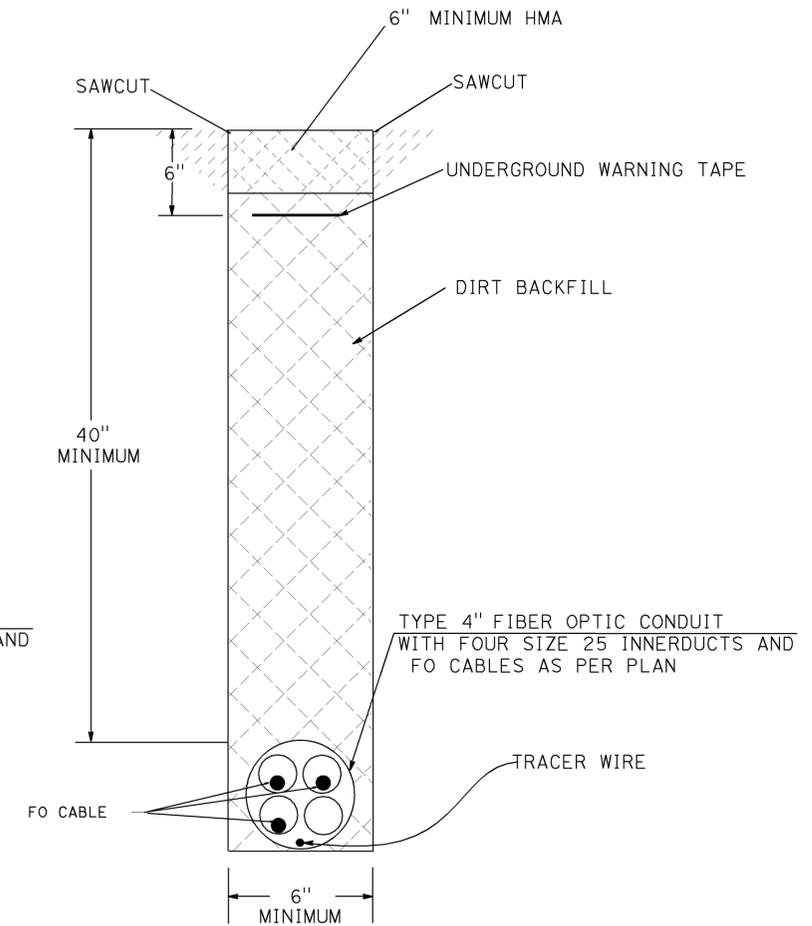


EXISTING FO CONDUIT-(TRENCHED)

ALL DIMENSIONS ARE APPROXIMATE
(SEE PLANS FOR LOCATIONS)



TRENCH IN DIRT DETAIL



TRENCH IN AC SHOULDER DETAIL

(CENTERED WITHIN THE SHOULDER OR AS
DIRECTED BY THE ENGINEER)

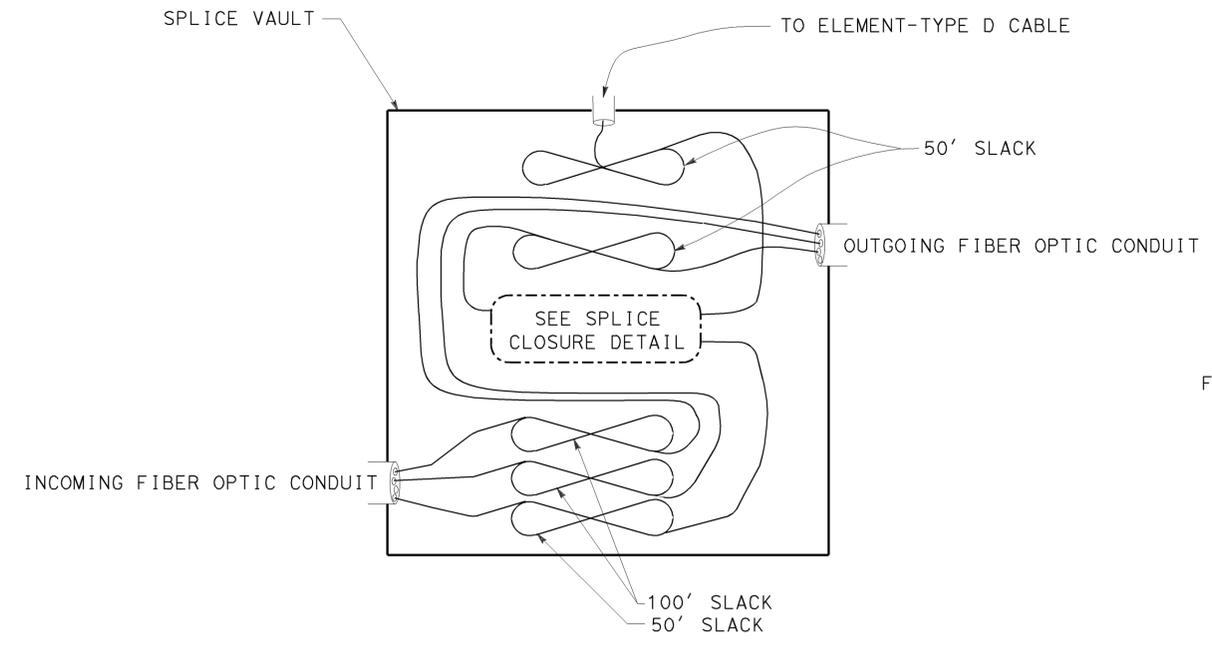
**MODIFY
 COMMUNICATION SYSTEM
 (FIBER OPTIC CONDUIT
 PLACEMENT DETAILS)**

NO SCALE

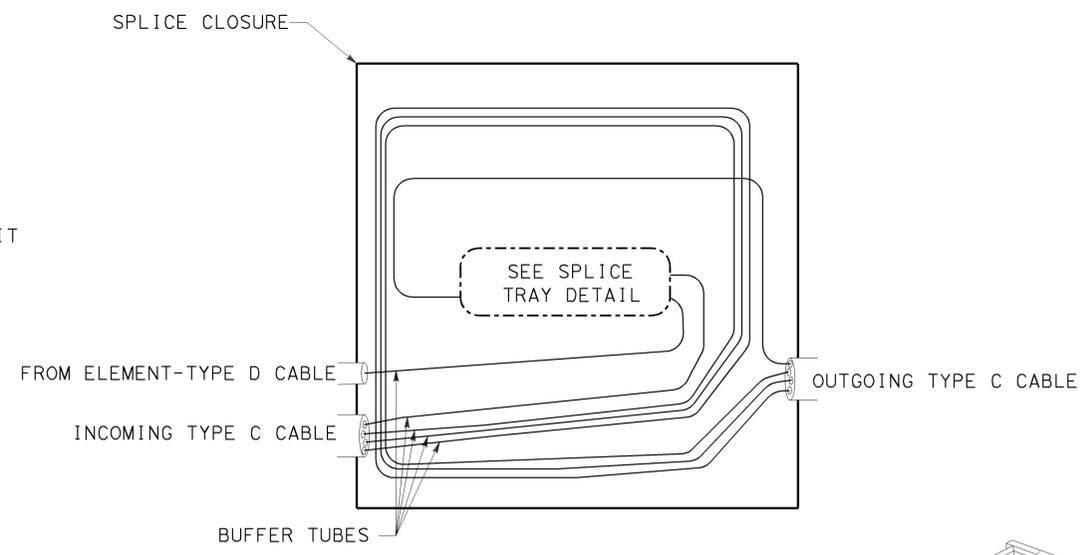
E-18

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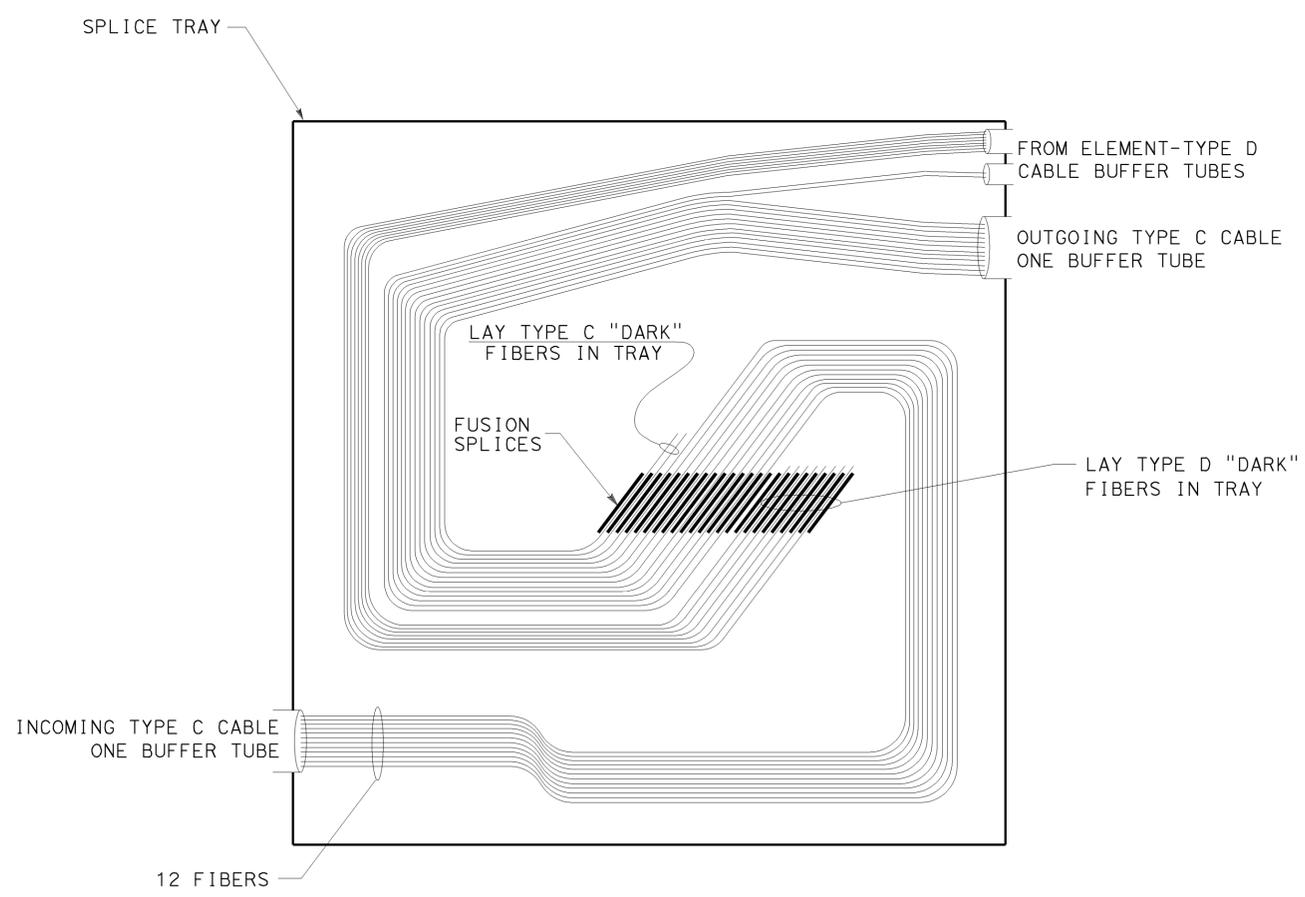
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08	SBd	10	12.0/19.8	262	319
Katherine Dinh		5-4-09	REGISTERED ELECTRICAL ENGINEER DATE		
8-3-09		PLANS APPROVAL DATE			
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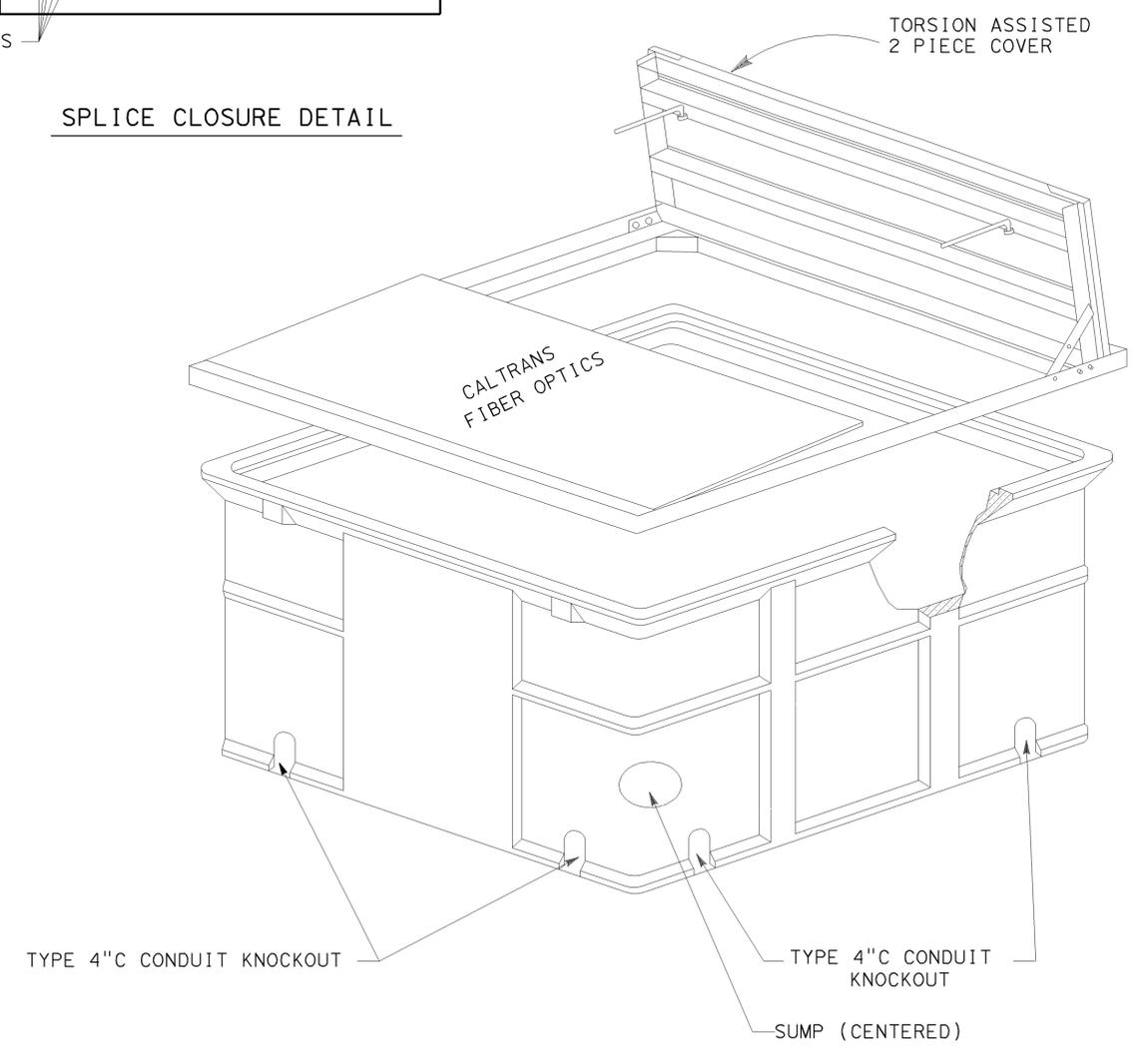
SPLICE VAULT DETAIL



SPLICE CLOSURE DETAIL



SPLICE TRAY DETAIL



RECTANGULAR SPLICE VAULT

**MODIFY
COMMUNICATION SYSTEM
(FIBER OPTIC
SPLICE VAULT DETAILS)**

NO SCALE **E-19**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	DESIGNED BY	REVISIONS	DATE
Caltrans ELECTRICAL DESIGN B	FERDINAND DE LA CRUZ	WALEED ABOUL-HOSN KATHERINE DINH	KD	1-30-09
		CHECKED BY		

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USERNAME => trlim
DGN FILE => 849750u0019.dgn

CU 08396 EA 497501

BORDER LAST REVISED 4/11/2008

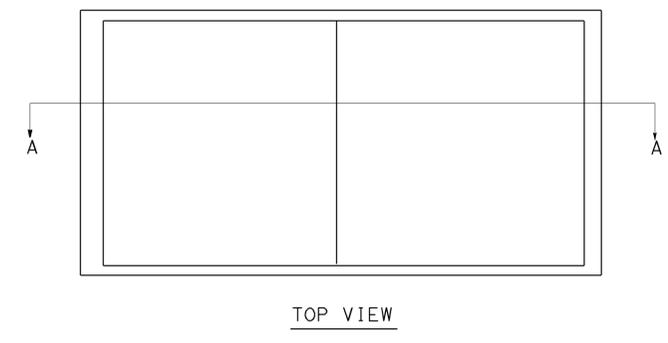
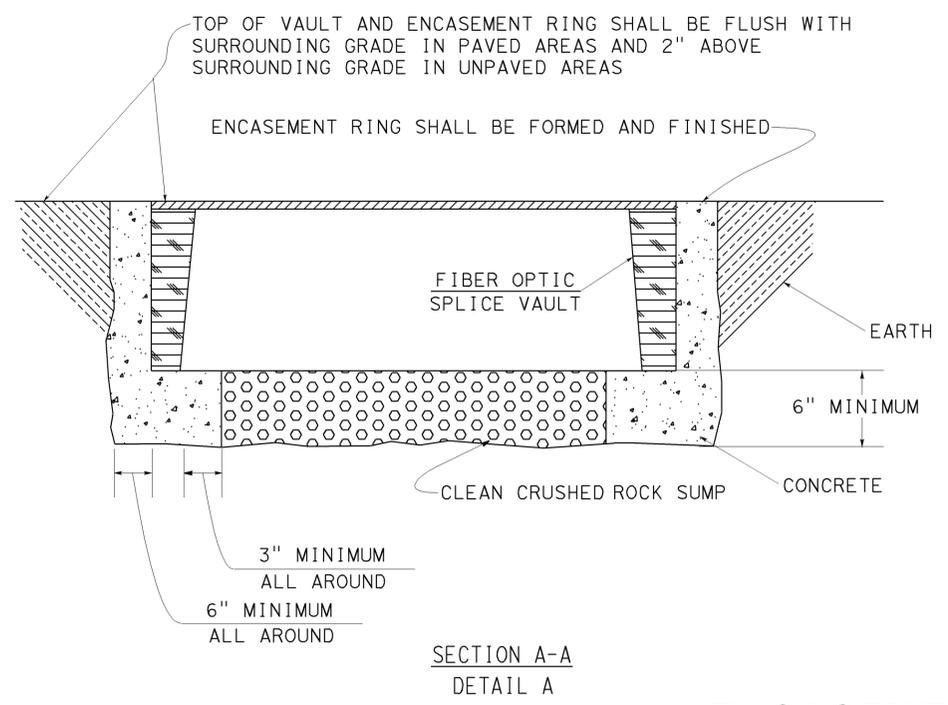
LAST REVISION | DATE PLOTTED => 06-AUG-2009
05-04-09 TIME PLOTTED => 11:20

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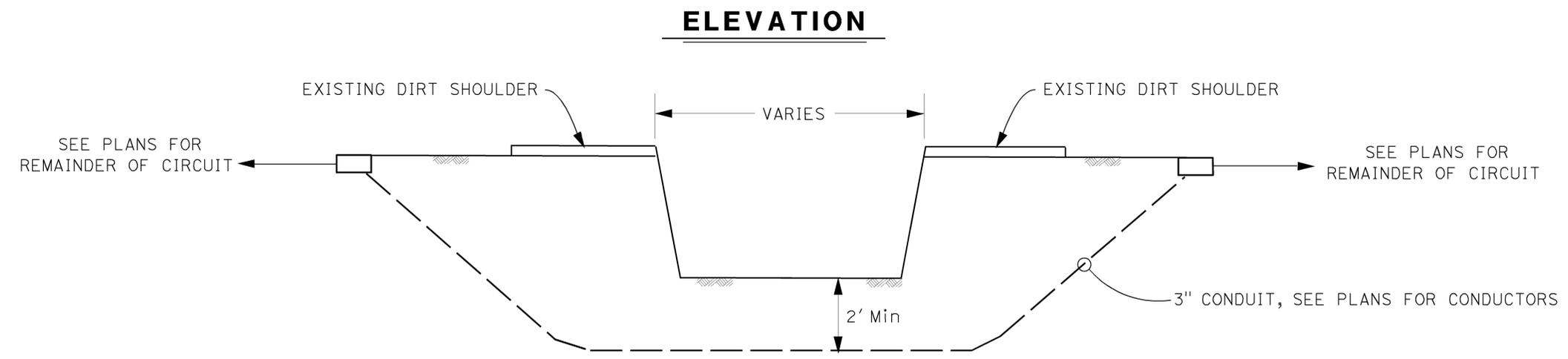
Katherine Dinh 5-4-09
 REGISTERED ELECTRICAL ENGINEER DATE
 8-3-09
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 KATHERINE DINH
 No. E17157
 Exp. 09/30/09
 ELECTRICAL
 STATE OF CALIFORNIA

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ENCASEMENT RING DETAIL
(RECTANGULAR VAULT)



DETAIL 'B'
TYPICAL CONDUIT CROSSING
BELOW DRAINAGE CONCRETE CHANNEL

**MODIFY LIGHTING
AND SIGN ILLUMINATION
(CONDUIT DRAINAGE CHANNEL CROSSING DETAIL)**

**MODIFY
COMMUNICATION SYSTEM
(SPLICE VAULT ENCASEMENT RING)**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ELECTRICAL DESIGN B
 FUNCTIONAL SUPERVISOR: FERDINAND DE LA CRUZ
 WALEED ABOUL-HOSN
 KATHERINE DINH
 REVISOR: KATHERINE DINH
 DATE: 1-30-09
 DESIGNED BY: FERDINAND DE LA CRUZ
 CHECKED BY:

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

NO SCALE

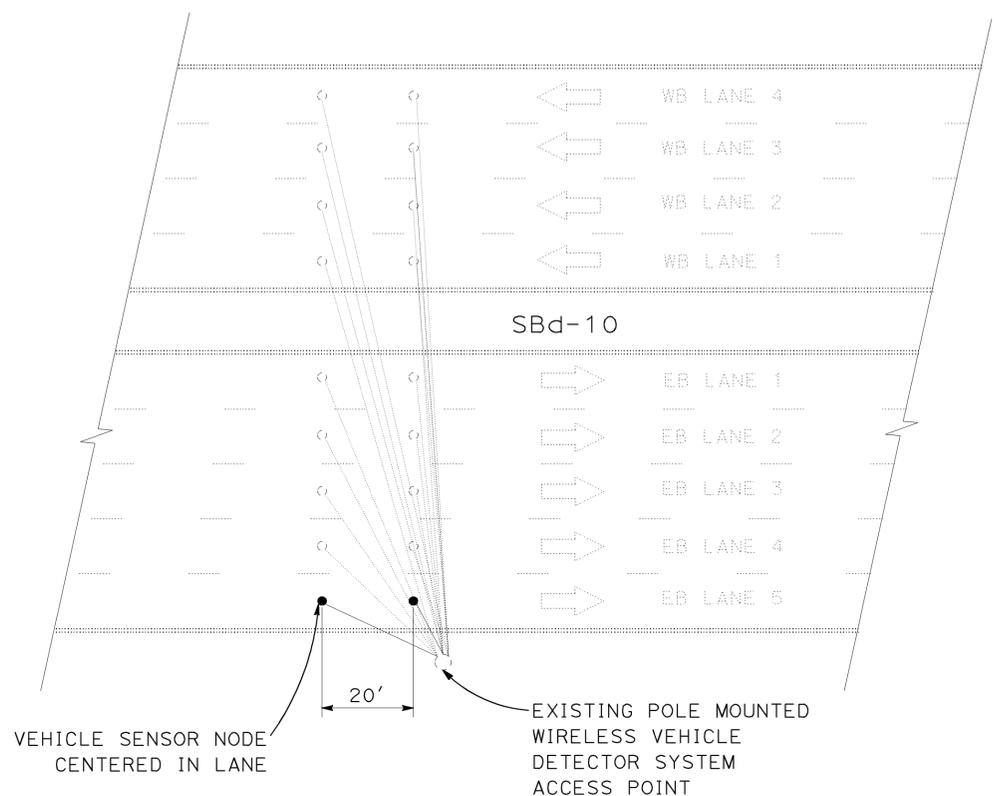
E-20

GENERAL NOTE:

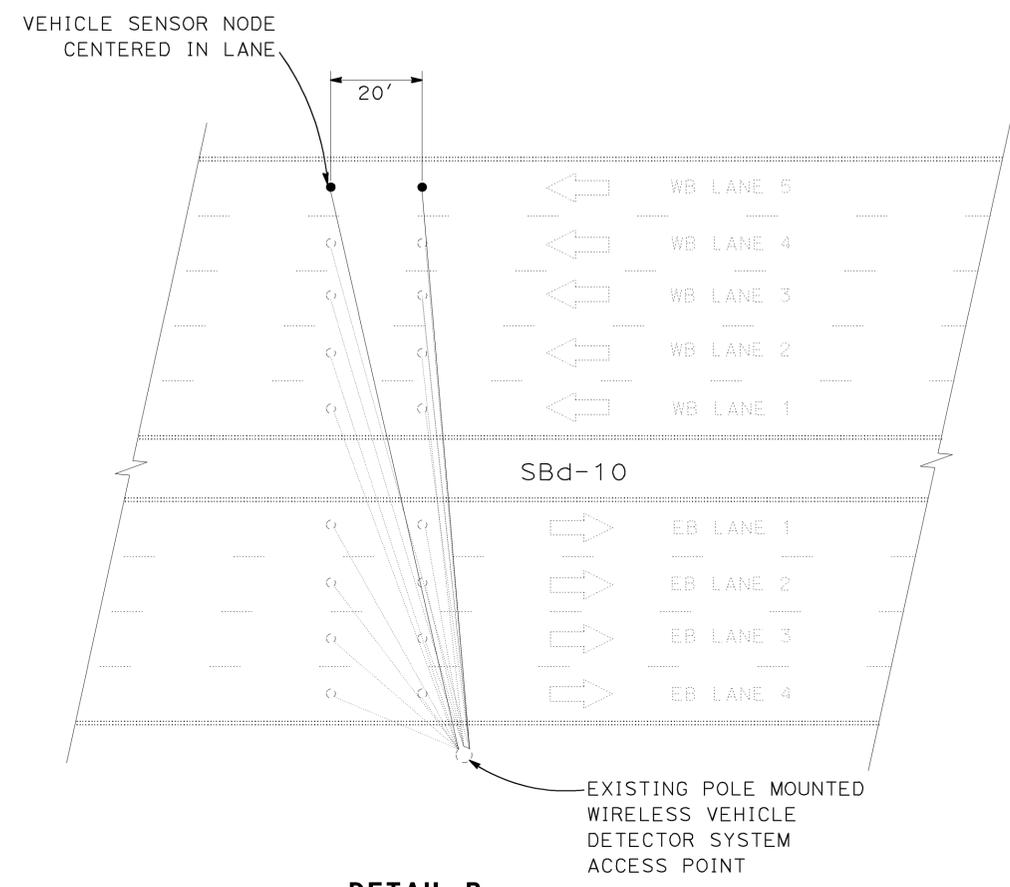
1. ALL DISTANCES ARE APPROXIMATE. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL VEHICLE SENSOR NODE LOCATIONS.

LEGEND:

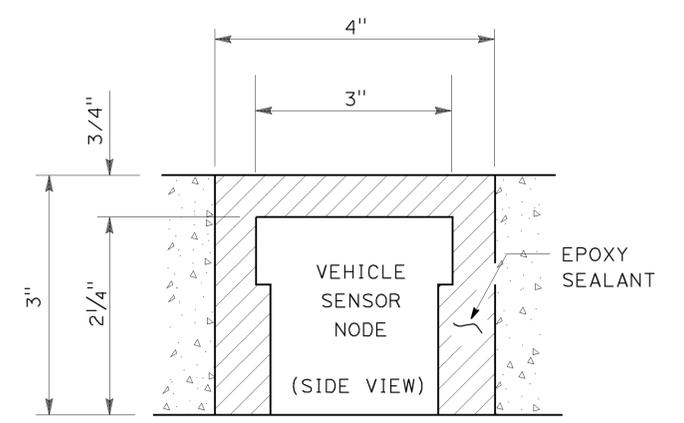
- ◁ EXISTING VEHICLE SENSOR NODE (VSN)
- NEW VEHICLE SENSOR NODE (VSN)



**DETAIL A
PLACEMENT DETAIL**



**DETAIL B
PLACEMENT DETAIL**



**VEHICLE SENSOR NODE (VSN)
INSTALLED IN ROADWAY**

VEHICLE SENSOR NODE INSTALLATION PROCEDURE

1. PRIOR TO INSTALLATION, IDENTIFY SENSOR'S ID, LANE NUMBER AND LOCATION IN LANE.
2. CORE A HOLE AT LEAST 2 1/4 " DEEP WITH THE TOP OF SENSOR AT LEAST 3/4 " BELOW SURFACE.
3. INSTALL SENSOR FLAT ON THE BOTTOM OF THE CORED HOLE AND DO NOT INSTALL SENSOR TILTED.
4. USE THE HEAT-GUN OR HOT COMPRESSED AIR TO DRY THE INSIDE OF THE CORED HOLE. NO MOISTURE PERMITTED ON THE APPLIED SURFACE.
5. FILL THE HOLE ABOUT 1/4 FULL OF SENSOR EPOXY/ADHESIVE.
6. ORIENT THE SENSOR IN THE HOLE WITH THE ARROW POINTING IN THE DIRECTION OF TRAFFIC. IF NEEDED, THE EPOXY SHOULD STILL HAVE SOME WORK TIME SO THAT THE SENSOR CAN BE ROTATED TO THE CORRECT POSITION. PUSH SENSOR DOWN FLAT ON THE BOTTOM OF THE HOLE TO INSURE A BOND UNDERNEATH THE SENSOR WITH THE EPOXY.
7. FILL THE HOLE WITH THE REMAINING EPOXY TO COVER THE SENSOR. LEVEL EPOXY WITH THE SURFACE OF THE ROAD.
8. DO NOT LET THE EPOXY SIT FOR MORE THAN 30 SECONDS BETWEEN THE FIRST AND SECOND APPLICATION.
9. THE INSTALLATION PAVEMENT TEMPERATURE SHOULD BE GREATER THAN -37° C.
10. DEPENDING ON AMBIENT TEMPERATURE AND HUMIDITY, ADHESIVE DRYING TIME WILL VARY FROM 5 TO 15 MINUTES. VERIFY HARDNESS OF EPOXY BEFORE REOPENING THE LANE FOR TRAFFIC.
11. RECORD THE DISTANCES BETWEEN EACH SENSOR PAIR.

No.	COUNTY	ROUTE	POSTMILE	DESCRIPTION	DIRECTION	DETAIL	No. OF VSN
①	SBd	10	12.1	WEST OF MULBERRY CREEK Br.	EASTBOUND	A	2
②	SBd	10	12.6	EAST OF MULBERRY CREEK Br.	EASTBOUND	A	2
③	SBd	10	13.8	WEST OF FONTANA REST AREA	WESTBOUND	B	2
④	SBd	10	14.4	EAST OF FONTANA REST AREA	EASTBOUND	A	2
⑤	SBd	10	17.7	WEST OF CEDAR AVENUE	EASTBOUND	A	2
⑥	SBd	10	19.3	EAST OF CEDAR AVENUE	WESTBOUND	B	2
TOTAL							12

**TABLE A
LOCATION OF INSTALLATIONS**

**MODIFY WIRELESS VEHICLE
DETECTION SYSTEM
(VEHICLE SENSOR NODE (VSN))**
NO SCALE
E-21

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 ELECTRICAL DESIGN B
 FUNCTIONAL SUPERVISOR
 FERDINAND DE LA CRUZ
 WALEED ABOL-HOSN
 KATHERINE DINH
 REVISOR
 DATE
 1-30-09
 KD

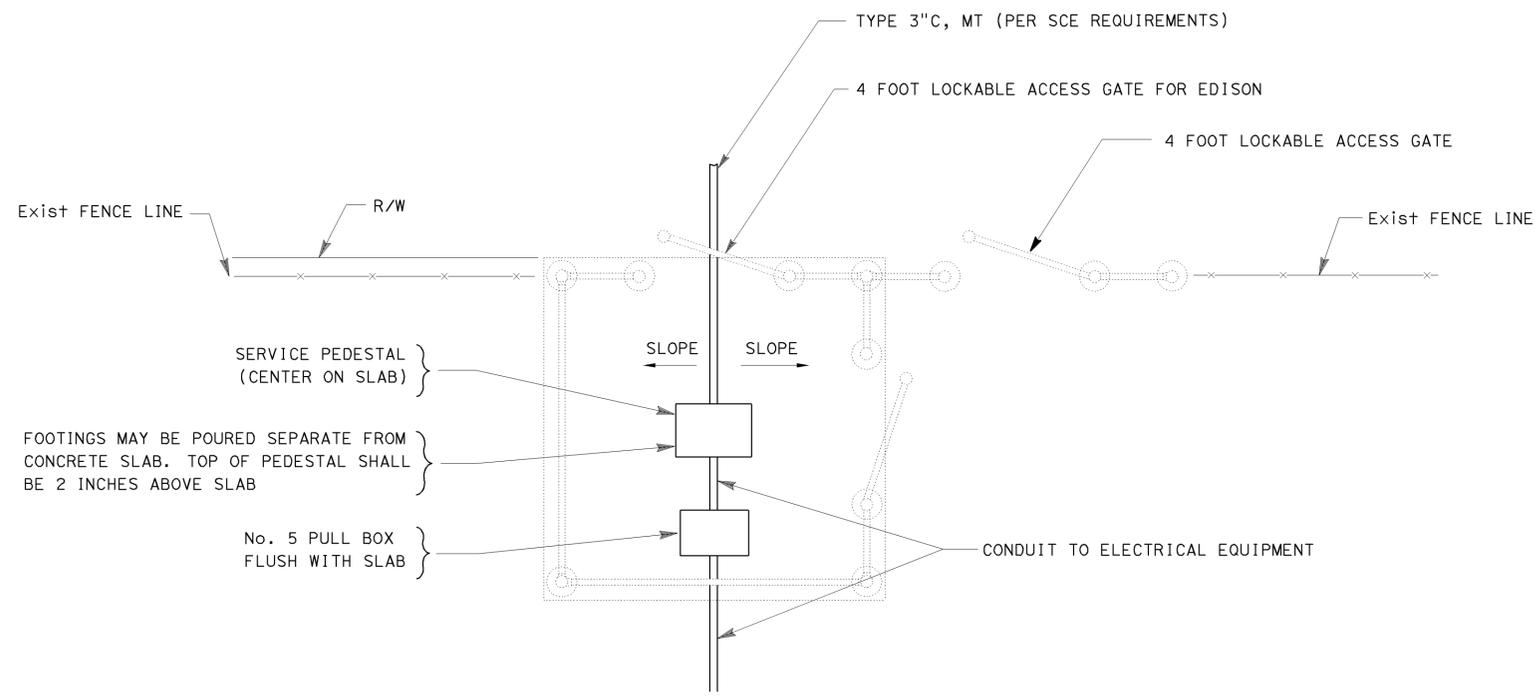
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	10	12.0/19.8	265	319

<i>Katherine Dinh</i>	5-4-09
REGISTERED ELECTRICAL ENGINEER	DATE
8-3-09	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
 KATHERINE DINH
 No. E17157
 Exp. 09/30/09
 ELECTRICAL
 STATE OF CALIFORNIA

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ELECTRICAL DESIGN B
FUNCTIONAL SUPERVISOR FERDINAND DE LA CRUZ
CALCULATED/DESIGNED BY CHECKED BY
WALEED ABOUL-HOSN KATHERINE DINH
REVISED BY DATE REVISED
KD 1-30-09



SERVICE EQUIPMENT ENCLOSURE LAYOUT

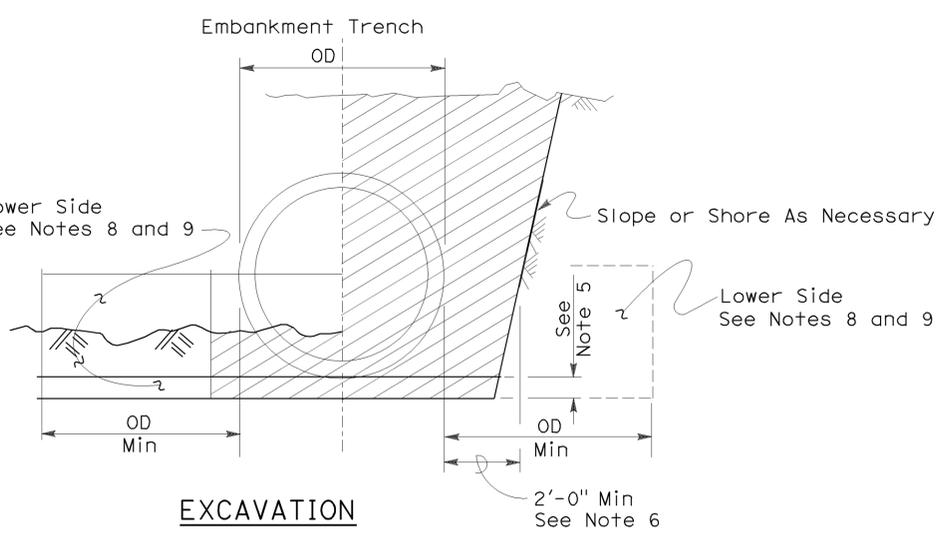
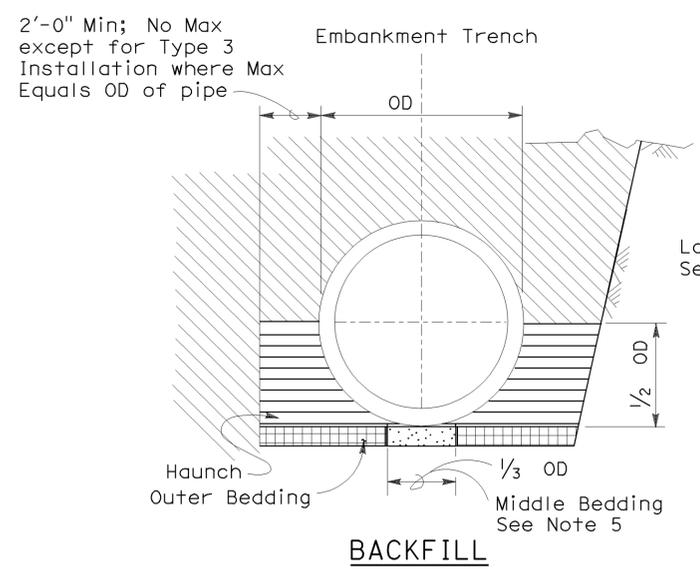
GENERAL NOTE-THIS SHEET ONLY:

- REFER TO SHEET C-11 FOR DETAILS.

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

**ELECTRICAL DETAIL
(SERVICE EQUIPMENT ENCLOSURE)**
NO SCALE
E-22

To accompany plans dated 8-3-09



- | | | | |
|--|---|--|--------------------------------|
| | Roadway Embankment | | Excavation Structure (Culvert) |
| | Structure Backfill (Culvert) See Note 6 | | |
| | Structure Backfill (Culvert) See Note 6 | | |
| | Loose Backfill | | |

TYPE 1 INSTALLATION:

The haunch and outer bedding shall be compacted to a minimum 90 percent relative compaction. In addition, the minimum sand equivalent in these areas shall be 30 and the maximum percentage passing the 75 μm sieve size shall be 12.

TYPE 2 INSTALLATION:

The haunch and outer bedding shall be compacted to a minimum 90 percent relative compaction. In addition, the minimum sand equivalent in these areas shall be 25.

TYPE 3 INSTALLATION:

The haunch and outer bedding shall be compacted to a minimum 85 percent relative compaction. 90 percent relative compaction will be required where the fill over the pipe is less than 4'-0" or 1/2 OD.

NOTES:

- Unless otherwise shown on the plans or specified in the special provision, the Contractor shall have the option of selecting the class of RCP and the type of installation to be used, provided the height of cover does not exceed the value shown for the RCP selected.
 Example: 24" RCP culvert with maximum cover of 19'-0" the options are:
 a) Class III or stronger with Installation Type 1.
 b) Class III Special or stronger with Installation Type 2.
 c) Class IV Special or stronger with Installation Type 3.
 Cover is defined as the maximum vertical distance from top of the pipe to finished grade within the length of any given culvert.
- The class of RCP and Installation Type selected shall be the same throughout the length of any given culvert.
- The "length of any culvert" is defined as the culvert between:
 a) Successive drainage structure (inlets, junction boxes, headwalls, etc.).
 b) A drainage structure and the inlet or outlet end of the culvert.
 c) The inlet and outlet end of the culvert when there are no intervening drainage structures.
- Oval and arch shaped RCP shall not be used.
- 1/25 OD Min, not less than 3".
- Slurry cement backfill may be substituted for backfill in the outer bedding and haunch areas. If slurry is used the outer and middle beddings shall be omitted. Prior to installation the soil under the middle 1/3 of the outside diameter of the pipe shall be softened by scarifying or other means to a minimum depth of 1/25 OD, but not less than 3". Where slurry cement backfill is used clear distance to trench wall may be reduced as set forth in Section 19-3.062 of the Standard Specifications.
- Backfill shall be placed full width of excavation except where dimensions are shown for backfill width or thickness. Dimensions shown are minimums.
- Lower side shall be suitable material as determined by the Engineer. Otherwise it shall be considered unsuitable as set forth in Section 19-2.02 of the Standard Specifications. See Note 9.
- Where the pipe is placed in a trench, if the trench walls are sloped at 5 vertical to 1 horizontal or steeper for at least 90 percent of the trench height or up to not less than 12" from the grading plane, the firmness of the soil in the lower side need not be considered.
- Non-reinforced precast concrete pipe sizes 3'-0" or smaller may be placed under installation Types 1, 2 or 3.

INSTALLATION TYPE 1

MINIMUM CLASS AND D-LOAD	COVER	
	108" Dia AND SMALLER	OVER 108" Dia
Class II 1000D	14.9'	12.9'
Class III 1350D	15.0' - 20.9'	13.0' - 18.9'
Class III Special 1700D	21.0' - 26.9'	19.0' - 24.9'
Class IV 2000D	27.0' - 31.9'	25.0' - 29.9'
Class IV Special 2500D	32.0' - 40.9'	30.0' - 38.9'
Class V 3000D	41.0' - 49.9'	39.0' - 46.9'
Class V Special 3600D	50.0' - 59.0'	47.0' - 58.0'

INSTALLATION TYPE 2

MINIMUM CLASS AND D-LOAD	COVER
Class II 1000D	9.9'
Class III 1350D	10.0' - 14.9'
Class III Special 1700D	15.0' - 19.9'
Class IV 2000D	20.0' - 24.9'
Class IV Special 2500D	25.0' - 31.9'
Class V 3000D	32.0' - 38.9'
Class V Special 3600D	39.0' - 47.0'

INSTALLATION TYPE 3

MINIMUM CLASS AND D-LOAD	COVER	
	48" Dia AND SMALLER	OVER 48" Dia
Class II 1000D	7.9'	5.9'
Class III 1350D	8.0' - 10.9'	6.0' - 8.9'
Class III Special 1700D	11.0' - 14.9'	9.0' - 12.9'
Class IV 2000D	15.0' - 17.9'	13.0' - 15.9'
Class IV Special 2500D	18.0' - 21.9'	16.0' - 19.9'
Class V 3000D	22.0' - 26.9'	20.0' - 24.9'
Class V Special 3600D	30.0' - 33.0'	25.0' - 31.0'

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**EXCAVATION AND BACKFILL
CONCRETE PIPE CULVERTS**

NO SCALE

RSP A62DA DATED NOVEMBER 17, 2006 SUPERSEDES STANDARD PLAN A62DA DATED MAY 1, 2006 - PAGE 20 OF THE STANDARD PLANS BOOK DATED MAY 2006.

2006 REVISED STANDARD PLAN RSP A62DA

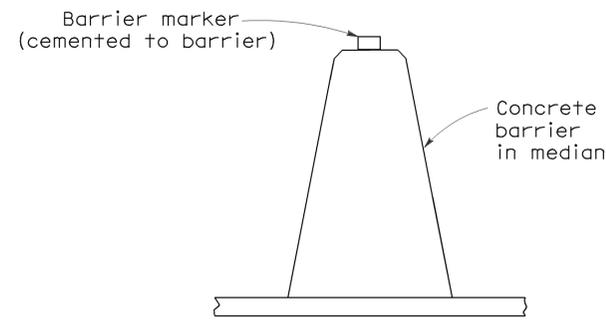
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	10	12.0/19.8	267	319

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

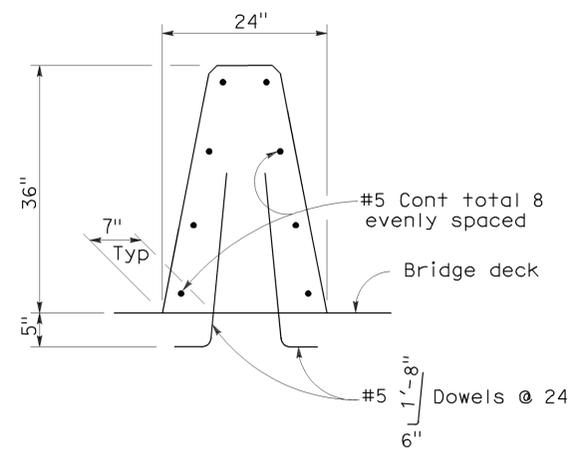
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To accompany plans dated 8-3-09



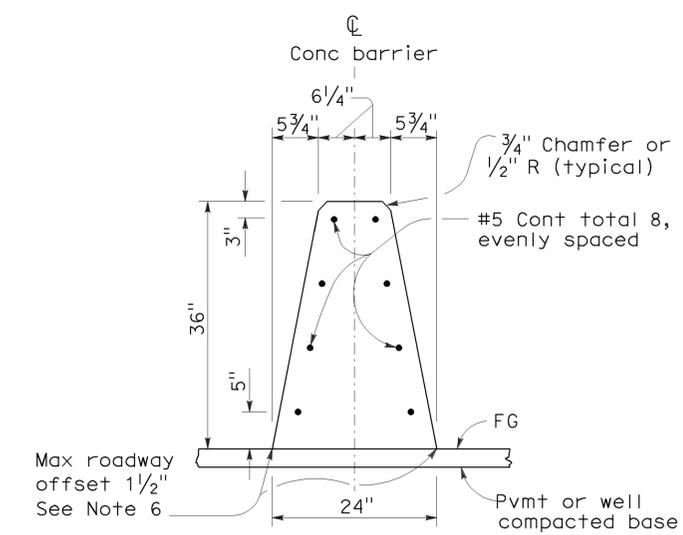
CONCRETE BARRIER TYPE 60 DELINEATION

See Notes 7 and 8



CONCRETE BARRIER TYPE 60A

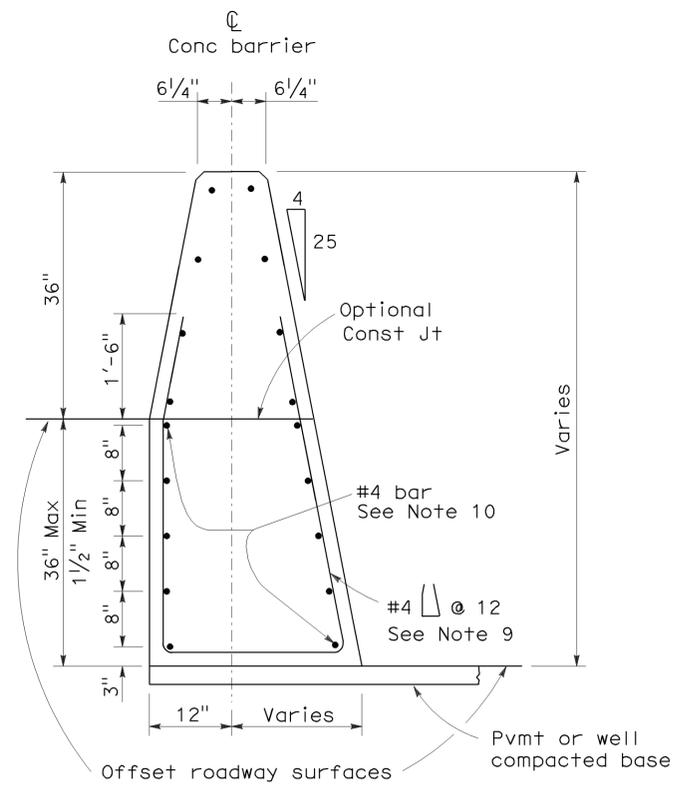
Details similar to Type 60 except as noted.



CONCRETE BARRIER TYPE 60

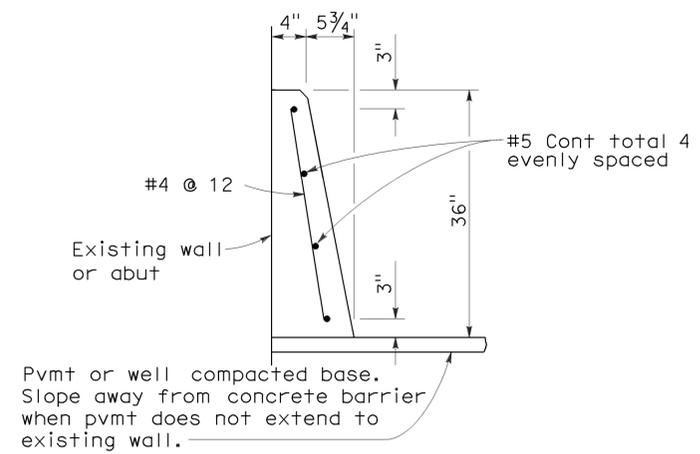
NOTES:

- See Standard Plan A76B for details of Concrete Barrier Type 60 end anchors, connection to structures and transitions to Concrete Barrier Type 50 and Concrete Barrier Type 60S.
- See Standard Plan A76C for Concrete Barrier Type 60 transitions at bridge column and sign pedestals.
- Where glare screen is required on Concrete Barrier Type 60, use Concrete Barrier Type 60G.
- Where the concrete barrier is added to the face of existing concrete structure, match existing weep holes.
- Expansion joints in concrete barrier shall be located at all deck, pavement and principal wall joints. Expansion joint filler material shall be the same size as joint or 1/2" minimum.
- Where roadway offset is greater than 1 1/2", see Concrete Barrier Type 60C.
- Barrier delineation to be used when required by the Special Provisions.
- Spacing of barrier markers to match spacing of raised pavement markers on the adjacent median edgeline pavement delineation.
- Reinforcing stirrup not required for roadway offsets less than 1'-0".
- For roadway surfaces offset greater than 1 1/2" to 3", no rebars required. For roadway surfaces offset greater than 3" to 8" use two #4 rebars at 3" above the lower roadway surface. For roadway surfaces offset greater than 8" to 12", use two #4 rebars at 3" above the lower roadway surface and two #4 rebars at 8" above the lower roadway surface. For roadway surfaces offset greater than 12" to 36", use two #4 rebars at 3" above the lower roadway surface and two #4 rebars at every 8" increment vertical spacing above the first two #4 rebars.



CONCRETE BARRIER TYPE 60C

Details similar to Type 60 except as noted. Concrete barrier end anchor when necessary. 36" roadway surfaces offset shown.



CONCRETE BARRIER TYPE 60D

CONCRETE BARRIER TYPE 60

NO SCALE

2006 REVISED STANDARD PLAN RSP A76A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	10	12.0/19.8	268	319

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

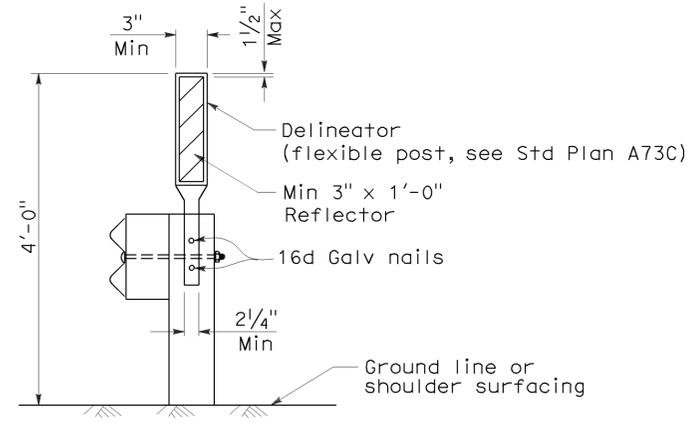
June 6, 2008
PLANS APPROVAL DATE

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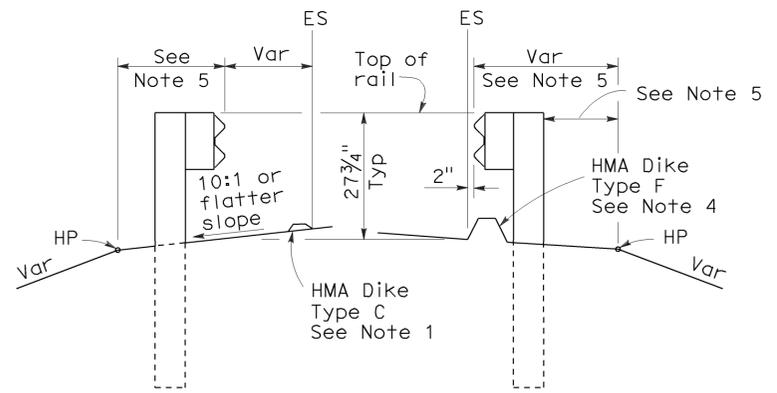
To accompany plans dated 8-3-09

NOTES:

1. When necessary to place dike in front of face of guard railing, only Type C dike may be used. For dike details, see Standard Plan A87B.
2. For standard railing post embedment, see Standard Plans A77C3.
3. Guard railing delineation to be used where shown on the Project Plans.
4. When dike or curb is placed under guard railing, the maximum height of the dike or curb shall be 4". Mountable dike should not be used. For dike and curb details, see Revised Standard Plans RSP A87A and Standard Plan A87B.
5. For details of typical distance between the face of rail and hinge point, see Standard Plan A77C3.



GUARD RAILING DELINEATION
See Note 3



DIKE POSITIONING
See Note 1

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**METAL BEAM GUARD RAILING
TYPICAL RAILING DELINEATION
AND DIKE POSITIONING DETAILS**

NO SCALE

RSP A77C4 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A77C4
DATED MAY 1, 2006 - PAGE 47 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A77C4

2006 REVISED STANDARD PLAN RSP A77C4

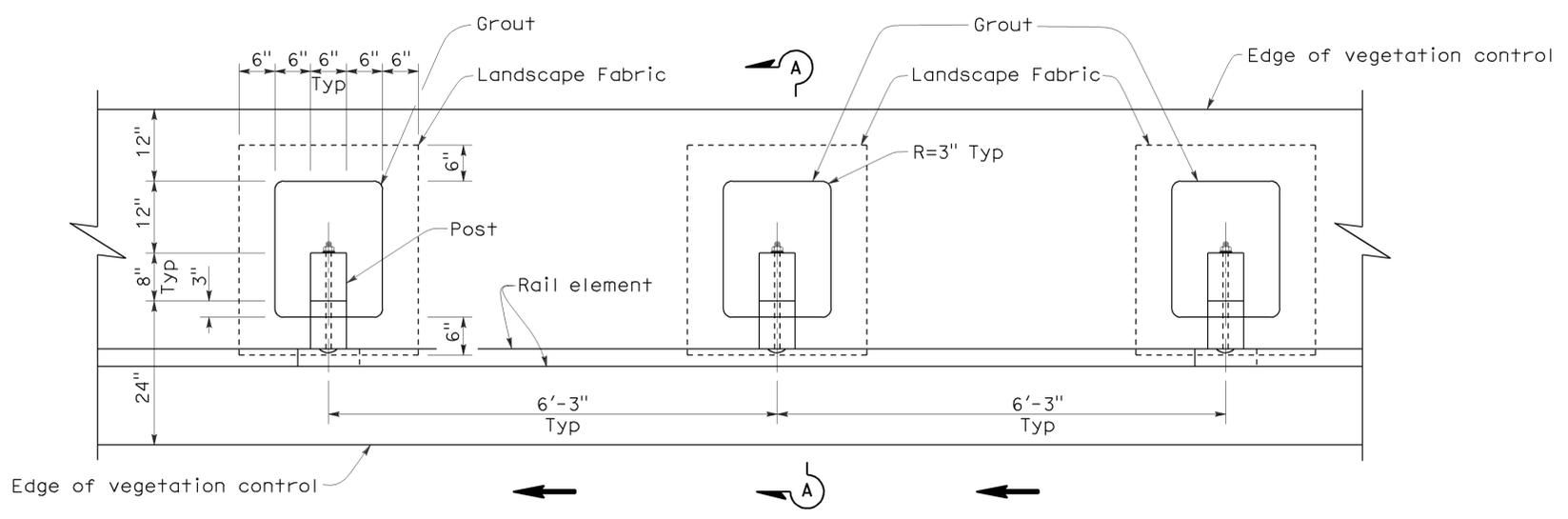
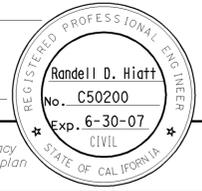
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	10	12.0/19.8	269	319

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

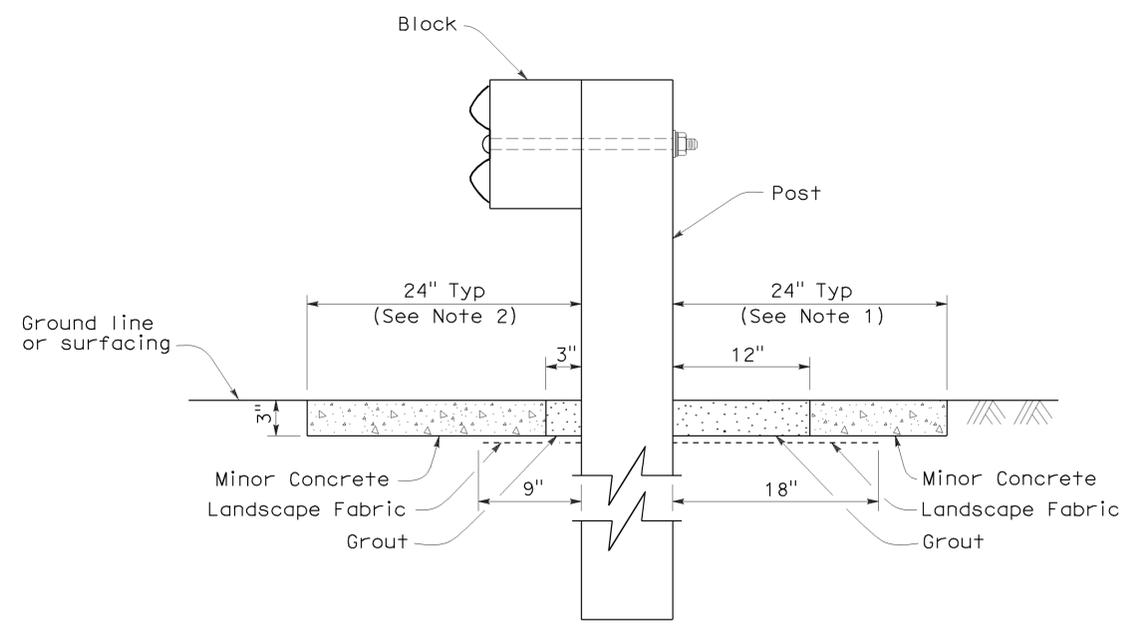
October 20, 2006
PLANS APPROVAL DATE

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To accompany plans dated 8-3-09



PLAN



SECTION A-A

NOTES:

1. Where the distance between back of post and hinge point is less than 24", vegetation control to be constructed flush with the back edge of the post.
2. Where dike is constructed under railing, construct vegetation control to back edge of dike. Where paved shoulder is constructed within 24" in front of the post, construct vegetation control to the edge of paved shoulder.
3. Direction of adjacent traffic indicated by ← .

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**METAL BEAM GUARD RAILING
TYPICAL VEGETATION CONTROL
STANDARD RAILING SECTION**

NO SCALE

NSP A77C5 DATED OCTOBER 20, 2006 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

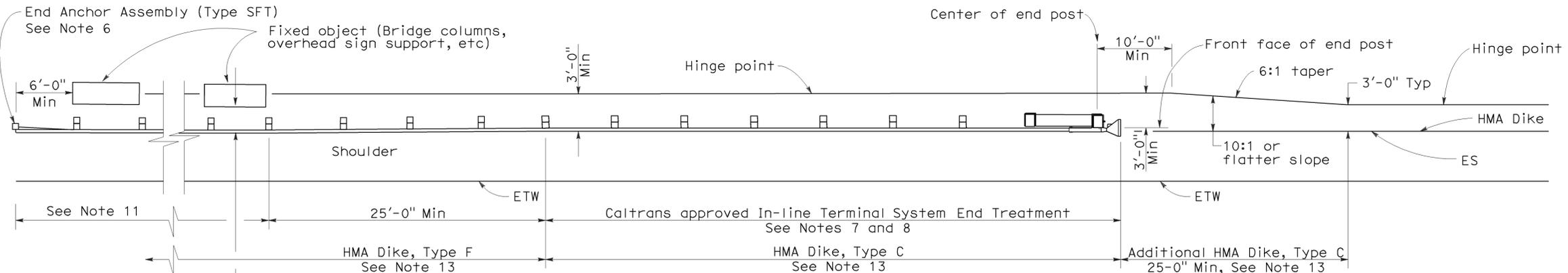
2006 NEW STANDARD PLAN NSP A77C5

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	10	12.0/19.8	270	319

RANDALL D. HIATT
 REGISTERED CIVIL ENGINEER
 No. C50200
 Exp. 6-30-09
 CIVIL
 STATE OF CALIFORNIA

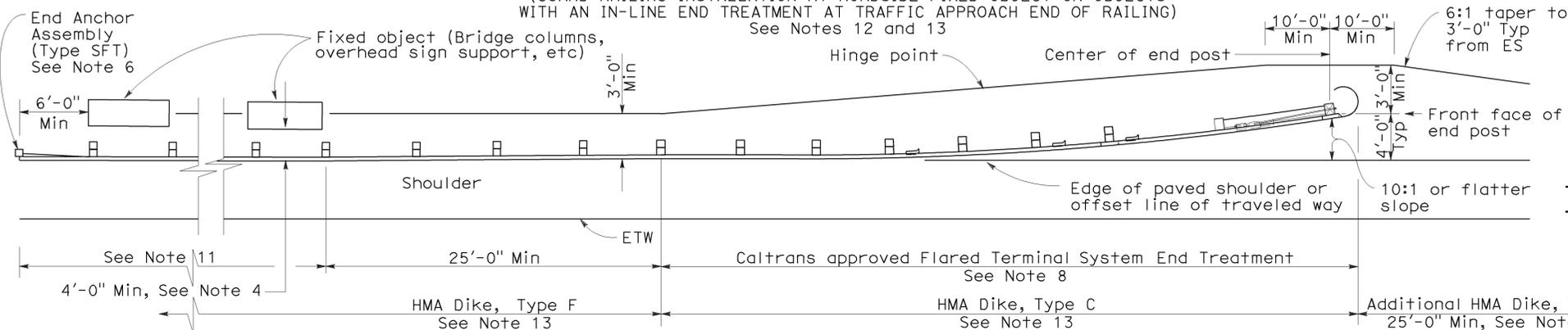
June 6, 2008
 PLANS APPROVAL DATE

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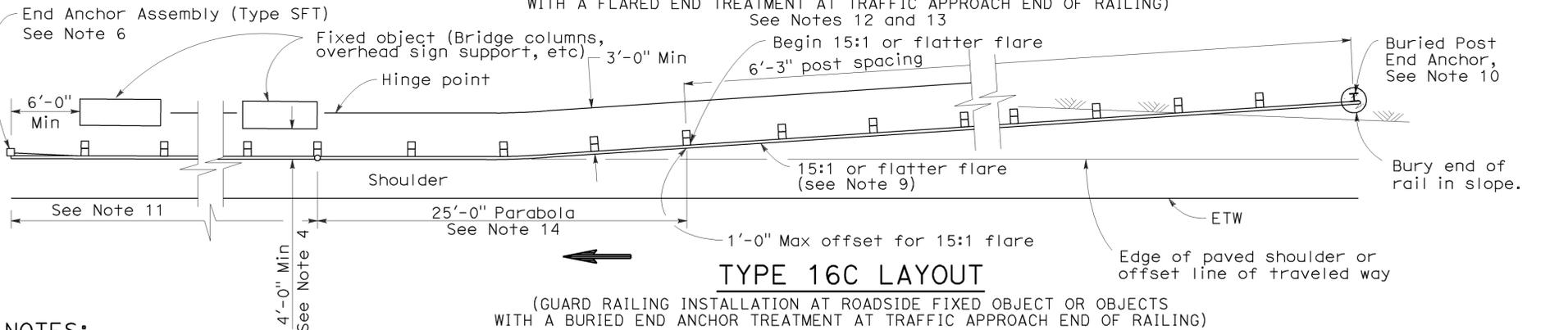
TYPE 16A LAYOUT

(GUARD RAILING INSTALLATION AT ROADSIDE FIXED OBJECT OR OBJECTS WITH AN IN-LINE END TREATMENT AT TRAFFIC APPROACH END OF RAILING)
See Notes 12 and 13



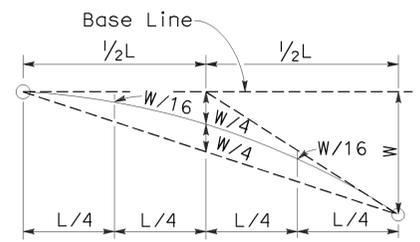
TYPE 16B LAYOUT

(GUARD RAILING INSTALLATION AT ROADSIDE FIXED OBJECT OR OBJECTS WITH A FLARED END TREATMENT AT TRAFFIC APPROACH END OF RAILING)
See Notes 12 and 13

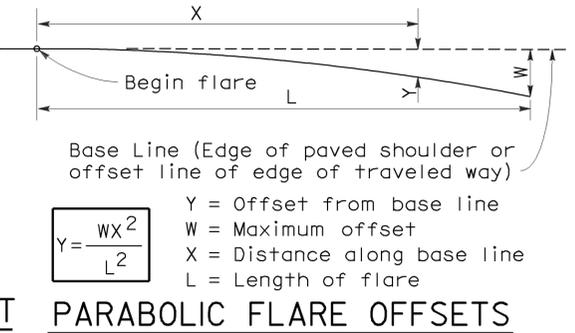


TYPE 16C LAYOUT

(GUARD RAILING INSTALLATION AT ROADSIDE FIXED OBJECT OR OBJECTS WITH A BURIED END ANCHOR TREATMENT AT TRAFFIC APPROACH END OF RAILING)
See Notes 12 and 13



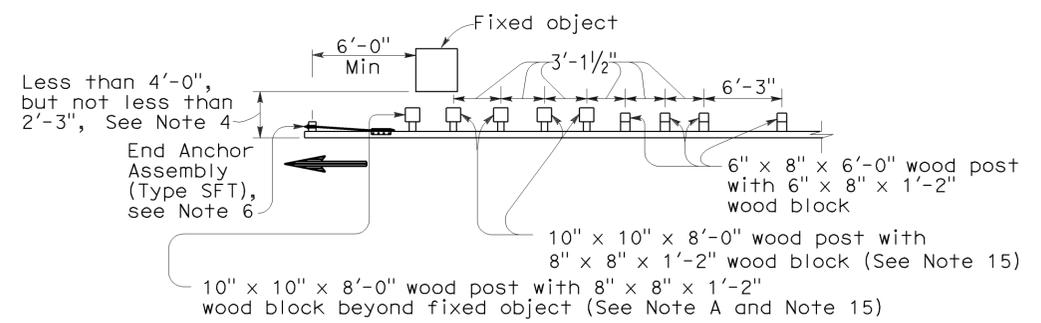
TYPICAL PARABOLIC LAYOUT



PARABOLIC FLARE OFFSETS

NOTES:

- Line post, blocks and hardware to be used are shown on Revised Standard Plans A77A1, A77A2, A77B1, A77C1 and A77C2.
- Guard railing post spacing to be 6'-3" center to center, except as otherwise noted.
- Except as noted, line posts are 6" x 8" x 6'-0" wood with 6" x 8" x 1'-2" wood blocks. W6 x 9 steel posts, 6'-0" in length, with 6" x 8" x 1'-2" notched wood blocks or notched recycled plastic blocks may be used for 6" x 8" x 6'-0" wood line posts with 6" x 8" x 1'-2" wood blocks where applicable and when specified.
- A 4'-0" minimum clearance is required between the face of the railing and the face of a fixed object located directly behind standard guard railing sections with post spacing of 6'-3". Construct guard railing as shown in the detail "Strengthened Railing Sections for Fixed Objects" on this plan, where the clearance between the face of the railing and the face of a fixed object is less than 4'-0", but not less than 2'-3". Where the clearance is less than 2'-3", a concrete wall or barrier should be constructed to shield the fixed object(s).
- Direction of adjacent traffic indicated by \rightarrow .
- For End Anchor Assembly (Type SFT) details, see Standard Plan A77H1.
- In-line Terminal System End Treatments are used where site conditions will not accommodate a flared end treatment.
- The type of terminal system to be used will be shown on the Project Plans.
- The 15:1 or flatter flare used with Type 16C Layout is based on the edge of the paved shoulder or offset line of edge of the traveled way. The length of guard railing within the 15:1 or flatter flare is based on site conditions and should be a length equal to multiples of 12'-6".
- For details of the Buried Post End Anchor used with Type 16C Layout, see Standard Plan A77I2.
- As site conditions dictate, construct additional guard railing to shield fixed object(s). Additional guard railing length equal to multiples of 12'-6". Post spacing at 6'-3" except as specified in Note 4.
- Layout Types 16A, 16B or 16C are typically used where guard railing is recommended to shield roadside fixed object(s) and a crashworthy end treatment is required for only one direction of traffic.
- Where placement of dike is required with guard railing, see Revised Standard Plan RSP A77C4 for dike positioning details.
- For typical flare offsets for 25'-0" length parabola with maximum offset of 1'-0", see Revised Standard Plan RSP A77E1.
- W6 x 15 steel post, 8'-0" in length, with 8" x 8" x 1'-2" notched wood block or notched recycled plastic blocks may be used in place of the 10" x 10" x 8'-0" wood post with 8" x 8" x 1'-2" wood block shown in the "Strengthened Railing Sections Detail".



NOTE A:

For a series of fixed objects (bridge columns, overhead sign supports, etc.) additional 10" x 10" x 8'-0" wood post with 8" x 8" x 1'-2" wood blocks at 3'-1/2" center to center spacing are to be used between fixed objects.

STRENGTHENED RAILING SECTIONS FOR FIXED OBJECT

Use strengthened railing sections with Types 16A, 16B or 16C Layouts where minimum clearance between the face of the guard railing and fixed object(s) is less than 4'-0", but not less than 2'-3". See Note 4

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
METAL BEAM GUARD RAILING TYPICAL LAYOUTS FOR ROADSIDE FIXED OBJECTS

NO SCALE

RSP A77G3 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A77G3 DATED MAY 1, 2006 - PAGE 61 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A77G3

2006 REVISED STANDARD PLAN RSP A77G3

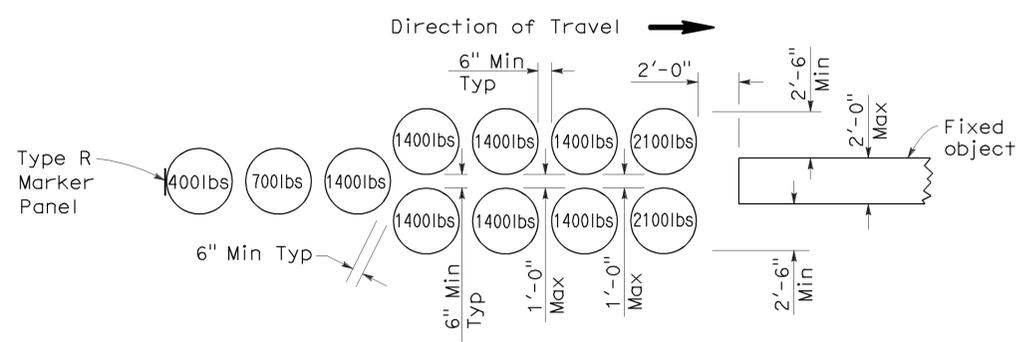
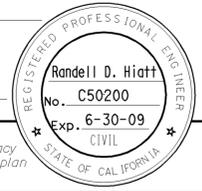
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	10	12.0/19.8	271	319

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

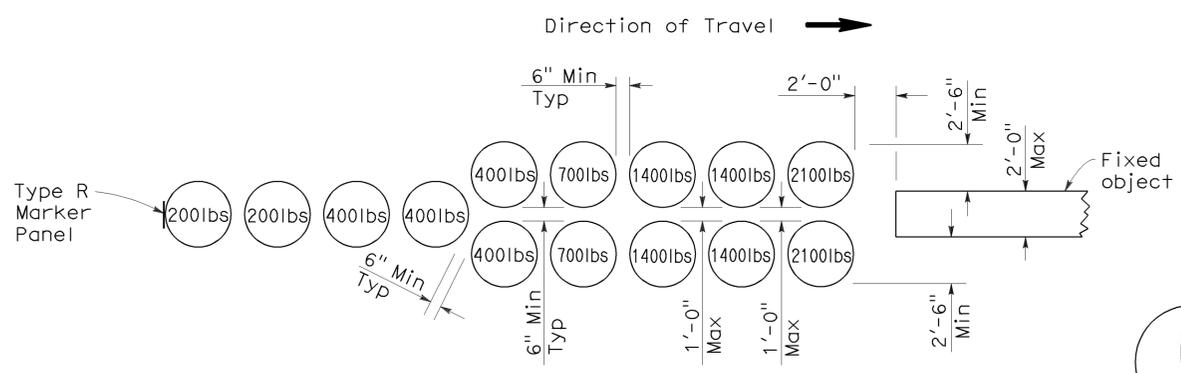
June 6, 2008
PLANS APPROVAL DATE

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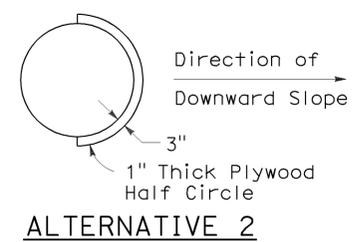
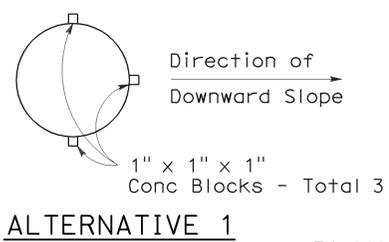
To accompany plans dated 8-3-09



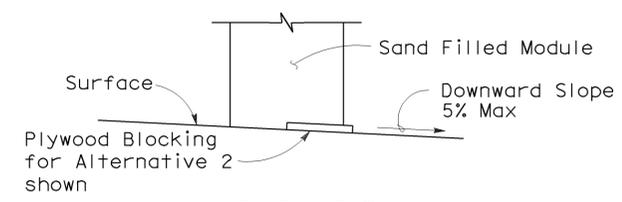
Direction of Travel →
ARRAY 'U11'
Approach speed less than 45 mph



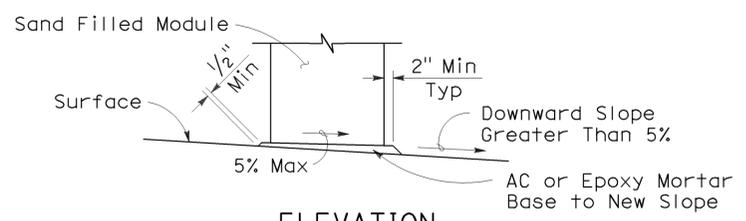
Direction of Travel →
ARRAY 'U14'
Approach speed 45 mph or more



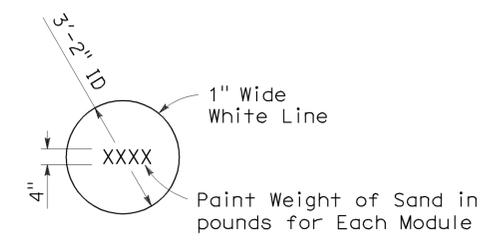
PLAN



ELEVATION
BRIDGE DECK MODULE BLOCKING DETAILS
(See Note 6)



ELEVATION
SLOPED SEAT DETAIL
(See Note 4)



PAINTING DETAIL
(See Note 5)

NOTES:

1. (xxx) Indicates module location and mass of sand in pounds for each module. Module spacing is based on the greater diameter of the modules.
2. All sand weights are nominal.
3. Each module is to contain amount of sand indicated, supported according to the manufacturer's instructions.
4. Modules shall be placed on asphalt concrete, epoxy mortar or concrete surface. Modules to be placed on surfacing with greater than 5% downward slope shall be seated as shown.
5. Mass of sand and outline of each module shall be painted on the surface at each module location.
6. Module blocking, epoxied to the deck surface, is required for all modules placed on bridge decks. Two acceptable alternatives are shown. Other alternatives recommended by the manufacturer and approved by the Engineer will be accepted.
7. Place the top of the Type R marker panel 1" below the module lid.
8. Approach speeds indicated conform to NCHRP Report criteria.

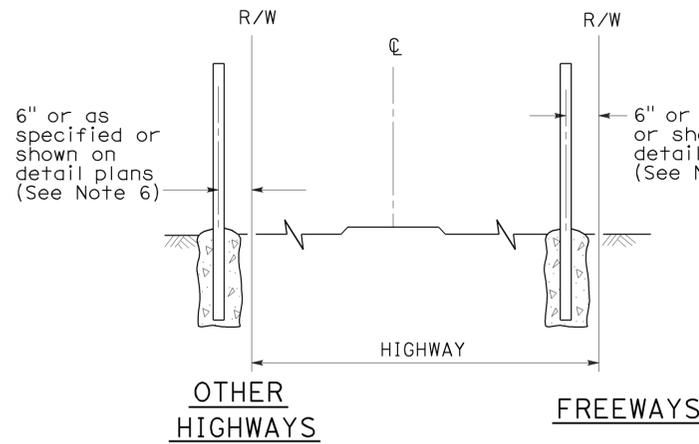
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**CRASH CUSHION,
SAND FILLED
(UNIDIRECTIONAL)**

NO SCALE

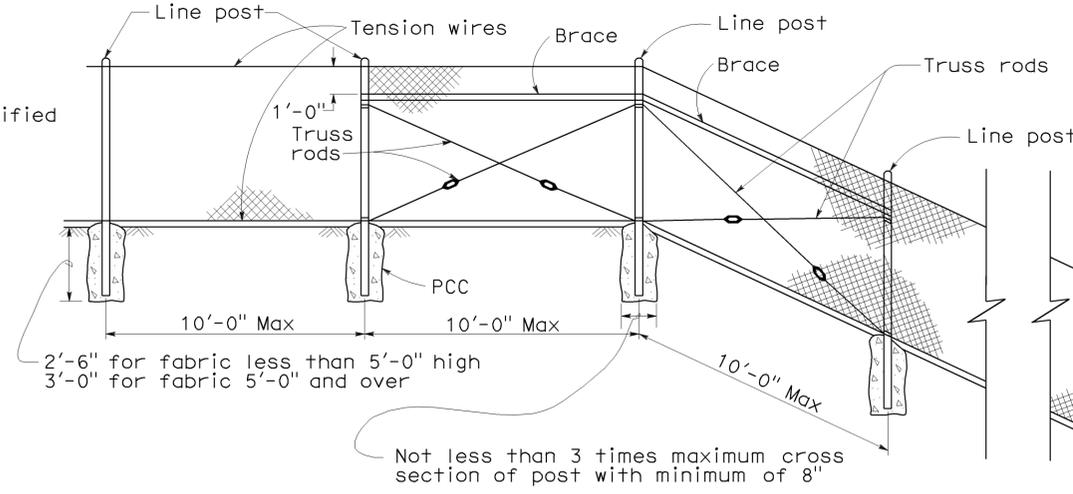
RSP A81A DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A81A
DATED MAY 1, 2006 - PAGE 99 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A81A

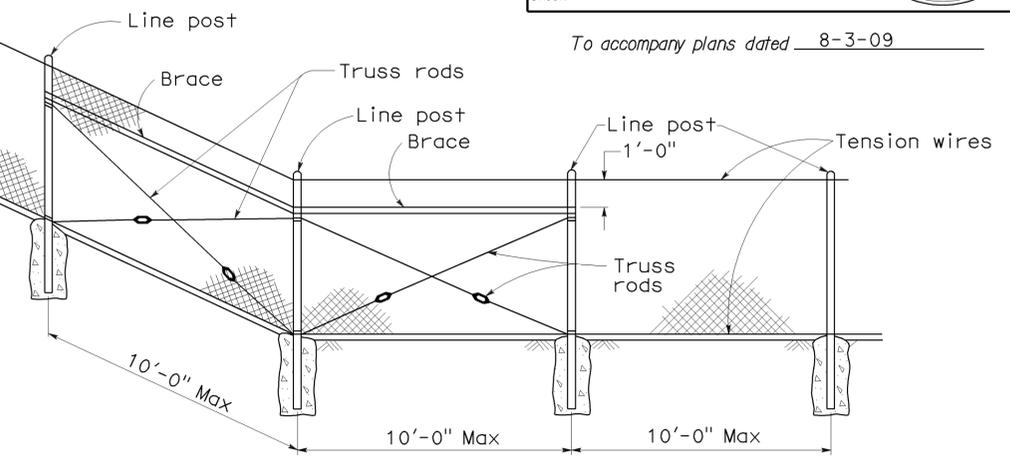
2006 REVISED STANDARD PLAN RSP A81A



FENCE LOCATION

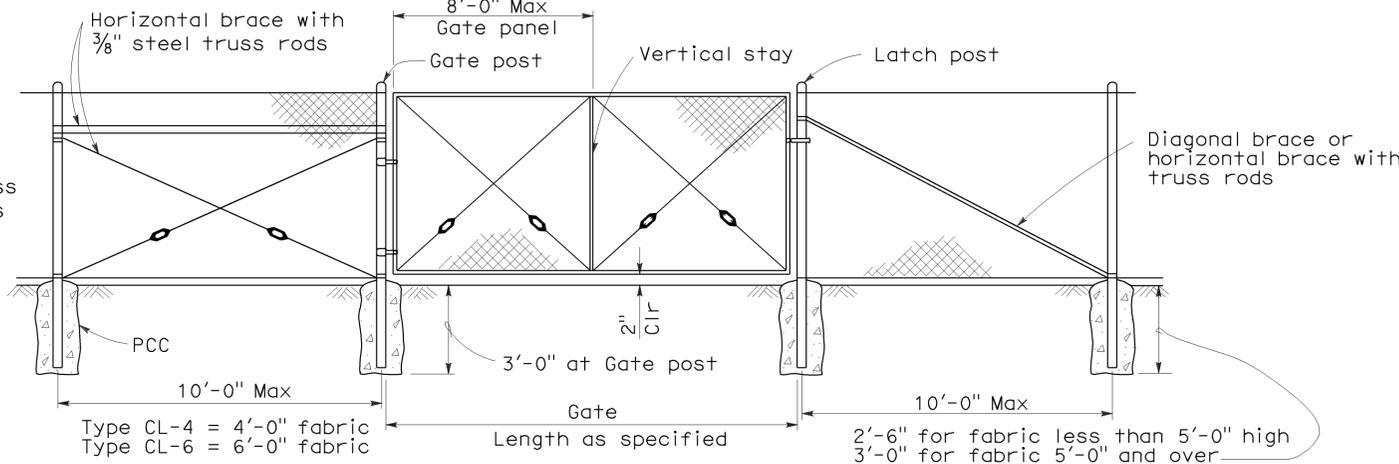
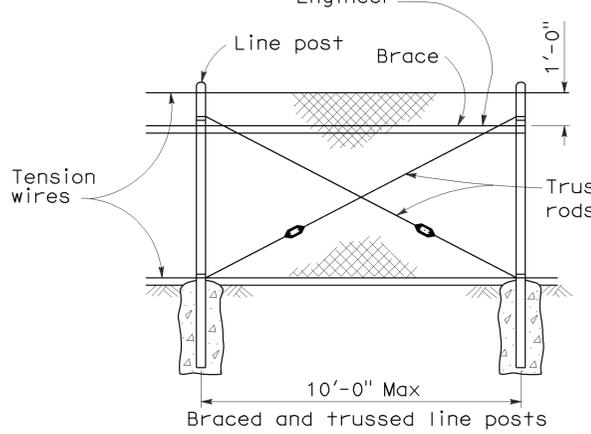


CHAIN LINK FENCE ON SHARP BREAK IN GRADE



To accompany plans dated 8-3-09

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



CHAIN LINK GATE INSTALLATION

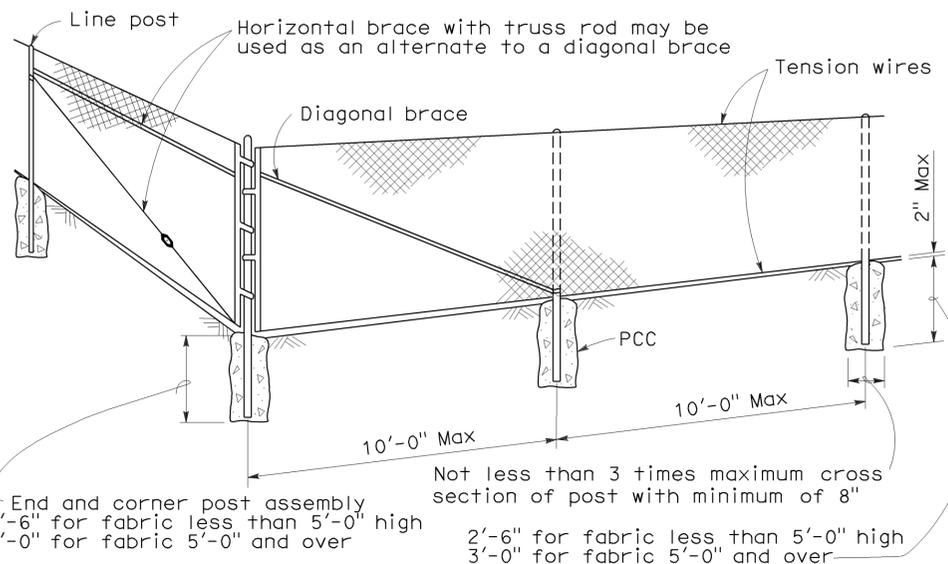
GATE POST			
FENCE HEIGHT	GATE WIDTHS	NOMINAL ID	WEIGHT PER FOOT
6'-0" and Less	Up thru 6'-0"	2 1/2"	4.95 LB
	Over 6'-0" thru 12'-0"	4"	10.79 LB
	Over 12'-0" thru 18'-0"	5"	14.62 LB
Over 6'-0"	Over 18'-0" to 24'-0" Max	6"	18.97 LB
	Up thru 6'-0"	3"	7.58 LB
	Over 6'-0" thru 12'-0"	5"	14.62 LB
	Over 12'-0" 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
08	SBd	10	12.0/19.8	273	319

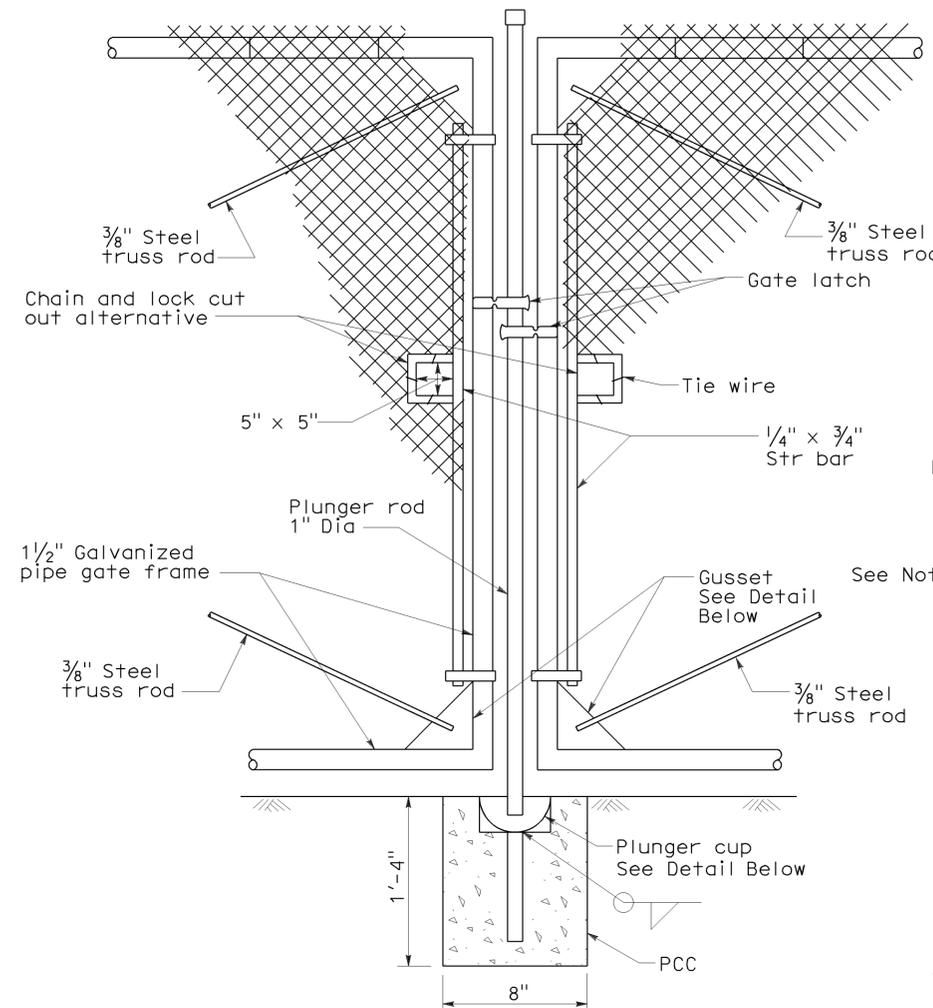
Glenn DeCou
 REGISTERED CIVIL ENGINEER
 No. C34547
 Exp. 9-30-09
 CIVIL
 STATE OF CALIFORNIA

June 5, 2009
 PLANS APPROVAL DATE

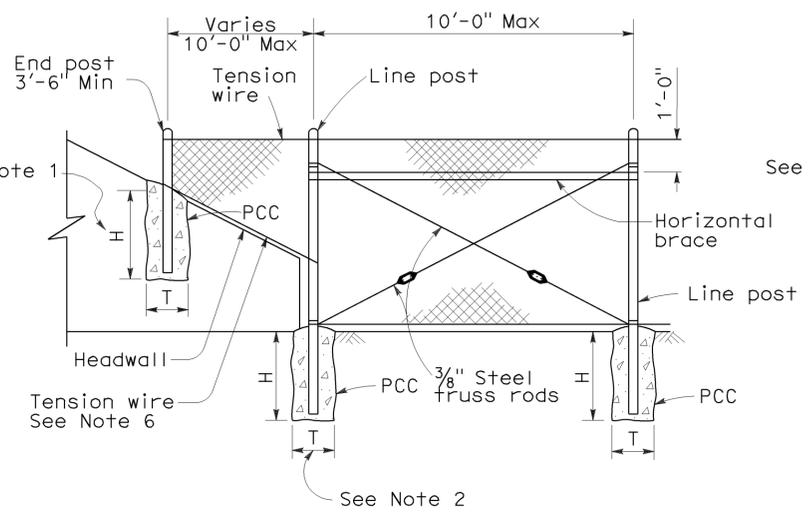
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To accompany plans dated 8-3-09

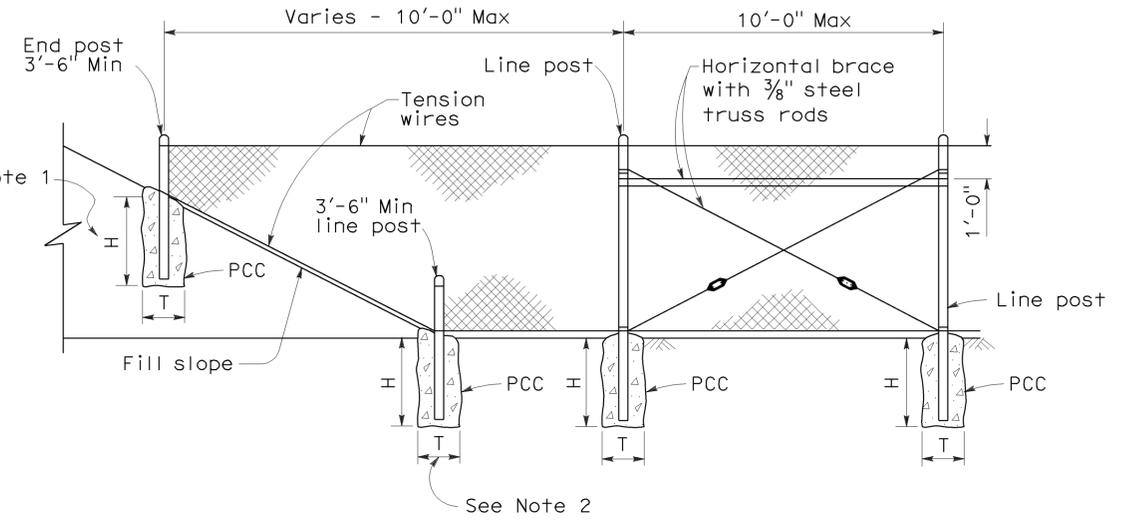
- NOTES:**
- H is 2'-6" for fabric less than 5'-0" high.
H is 3'-0" for fabric 5'-0" and over.
 - T is not less than 3 times maximum cross section of post with minimum of 8".
 - Arms with barbed wire to be used where shown on plans.
 - See Revised Standard Plan RSP A85 for Chain Link Fencing dimensions.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



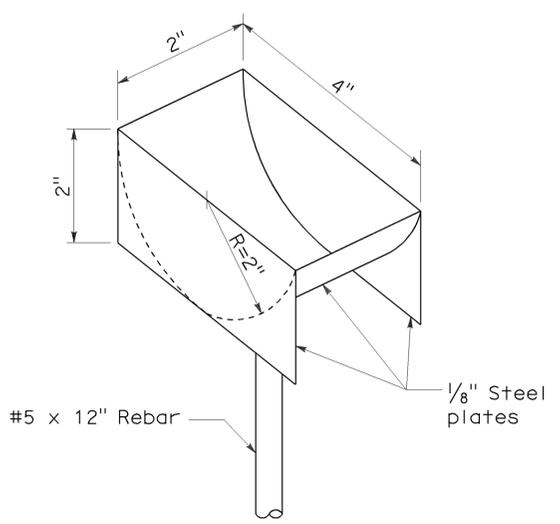
**TYPICAL DOUBLE GATE
REMOVABLE CENTER POST**



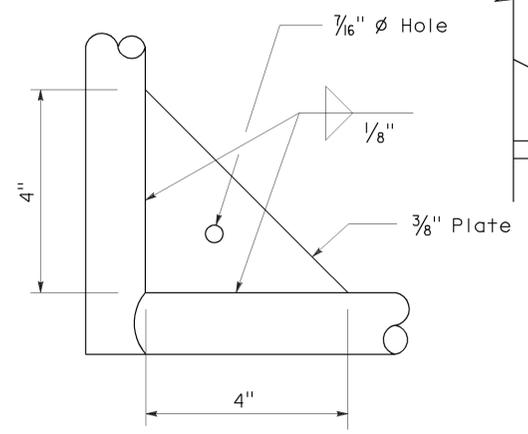
METHOD OF TYING FENCE TO HEADWALL



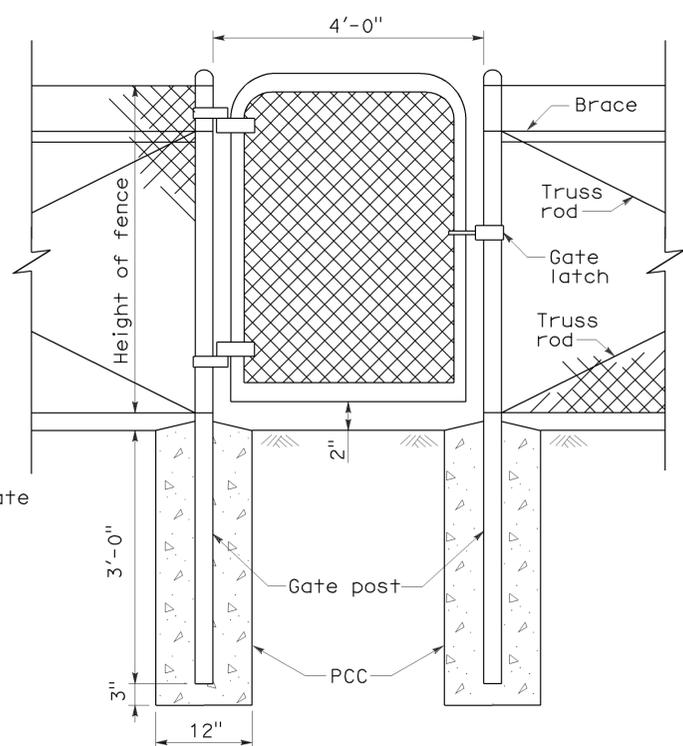
METHOD OF ERECTING FENCE FOR FILL SLOPE



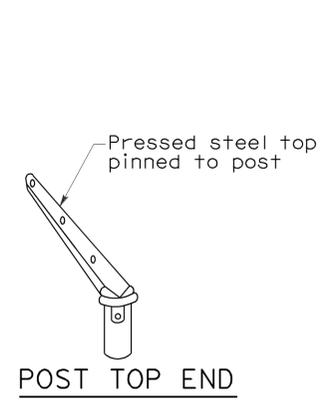
PLUNGER CUP DETAIL



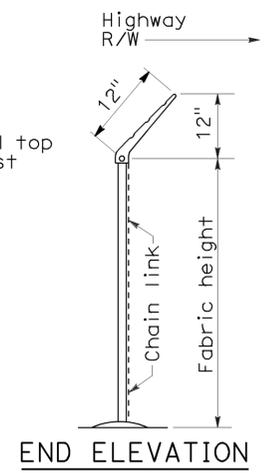
GUSSET DETAIL



WALK GATE

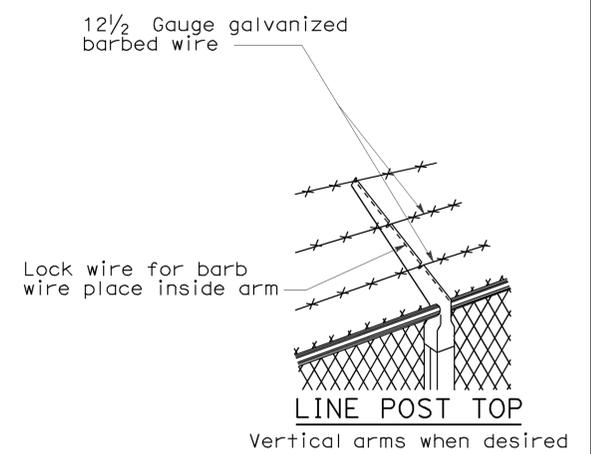


POST TOP END



END ELEVATION

BARBED WIRE POST TOP
See Note 3



LINE POST TOP
Vertical arms when desired

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

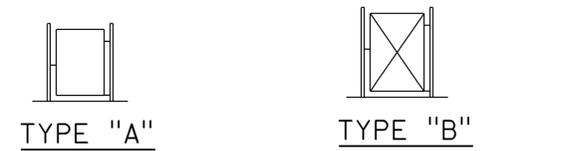
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	10	12.0/19.8	274	319

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

June 5, 2009
 PLANS APPROVAL DATE

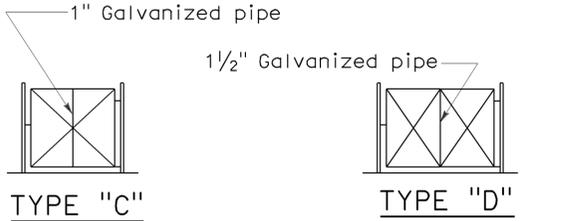
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To accompany plans dated 8-3-09



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

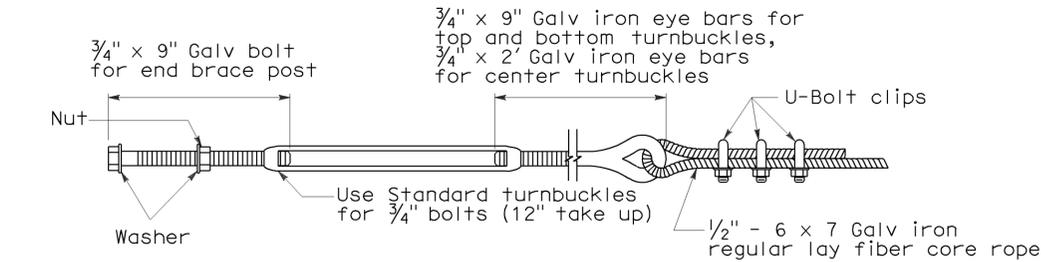
TYPE "B"
Over 6' to 12' Single.
Over 12' to 24' Double



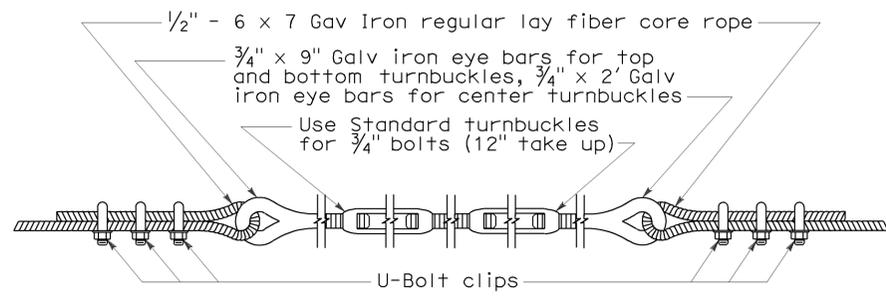
TYPE "C"
Over 12' to 18' Single
Over 24' to 36' Double.

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

TYPICAL FRAMEWORK SHOWING NUMBER OF BAYS IN GATE



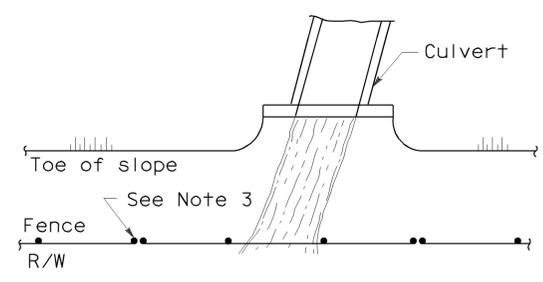
TURNBUCKLE A



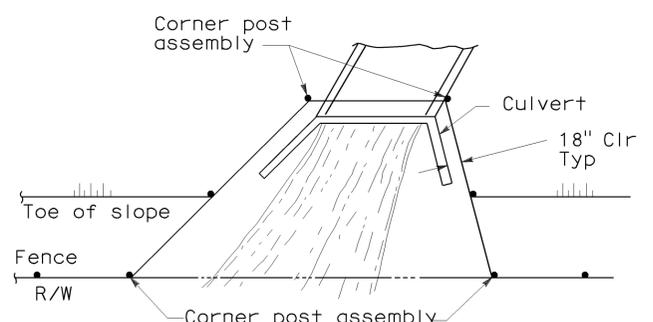
TURNBUCKLE B

NOTES:

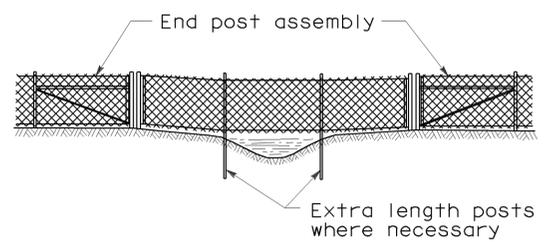
1. All material for abutment connection to be galvanized.
2. The chain link fabric shall be replaced by barbed wire strands at 12" maximum centers between the double posts.
3. When the width of the culvert makes it necessary to anchor a post to the top of the culvert, a cast iron shoe or other device 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

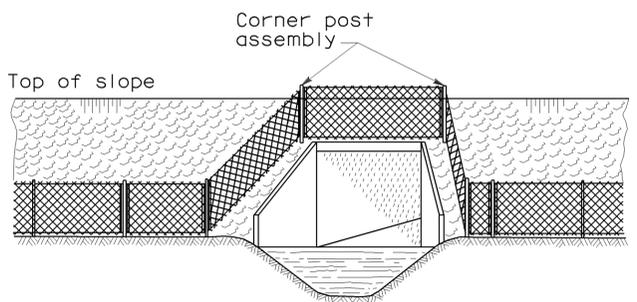


PLAN



ELEVATION

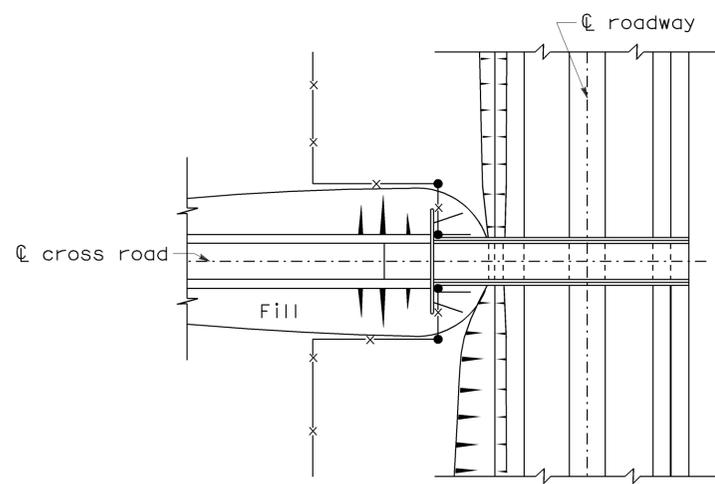
INSTALLATION OVER STREAM



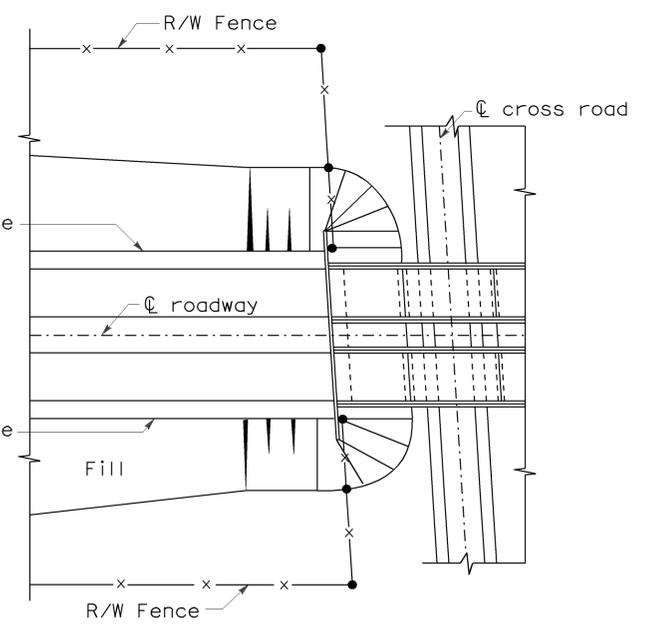
ELEVATION

INSTALLATION AROUND HEADWALL

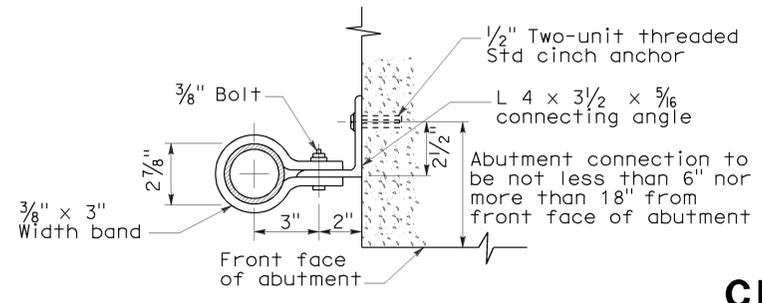
See Note 4



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.

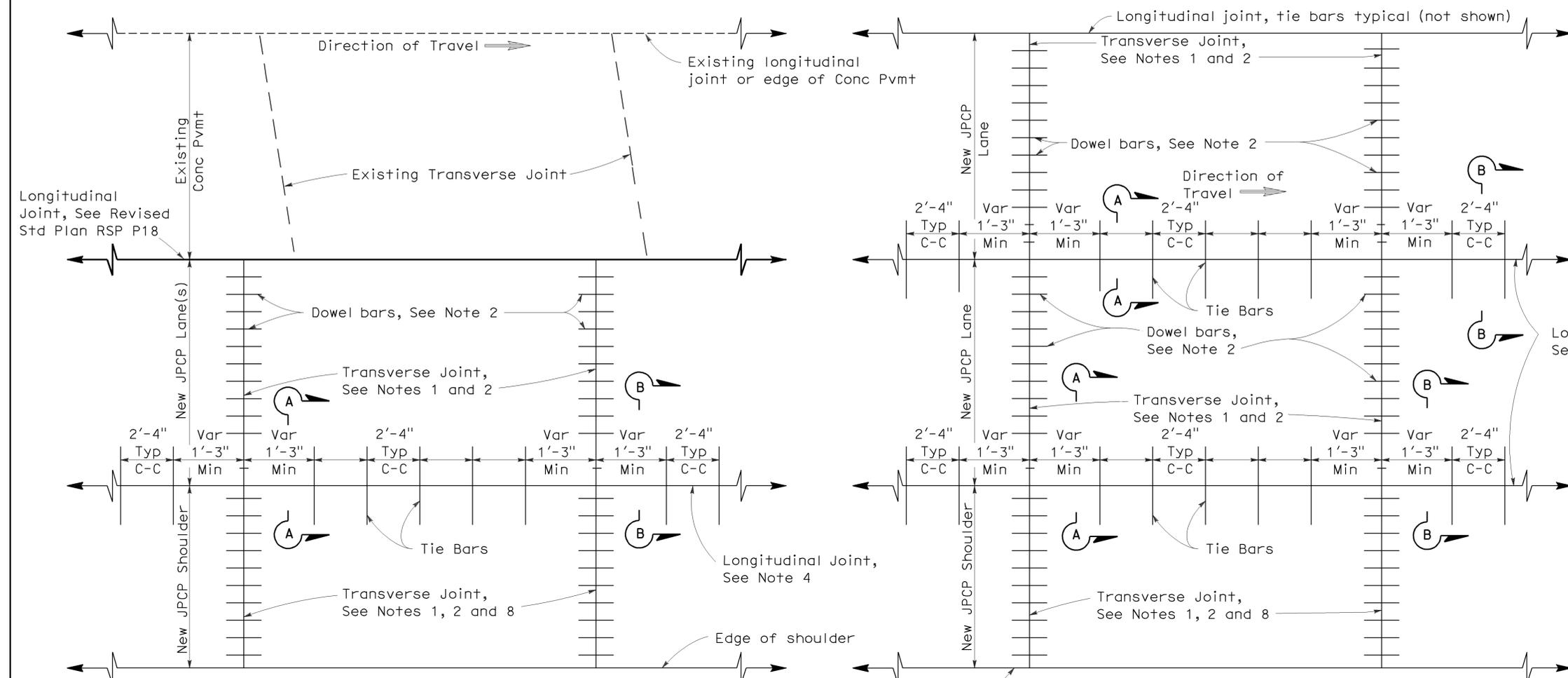
NEW STANDARD PLAN NSP A85B

2006 NEW STANDARD PLAN NSP A85B

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	10	12.0/19.8	275	319

William K. Farnbach
 REGISTERED CIVIL ENGINEER
 May 15, 2009
 PLANS APPROVAL DATE
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 REGISTERED PROFESSIONAL ENGINEER
 William K. Farnbach
 No. C49042
 Exp. 9-30-10
 CIVIL
 STATE OF CALIFORNIA

To accompany plans dated 8-3-09

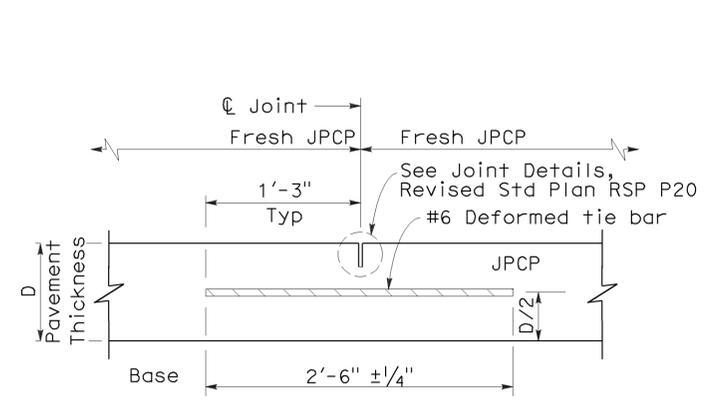


PLAN
LANE/SHOULDER ADDITION OR RECONSTRUCTION
 See Notes 6 and 7

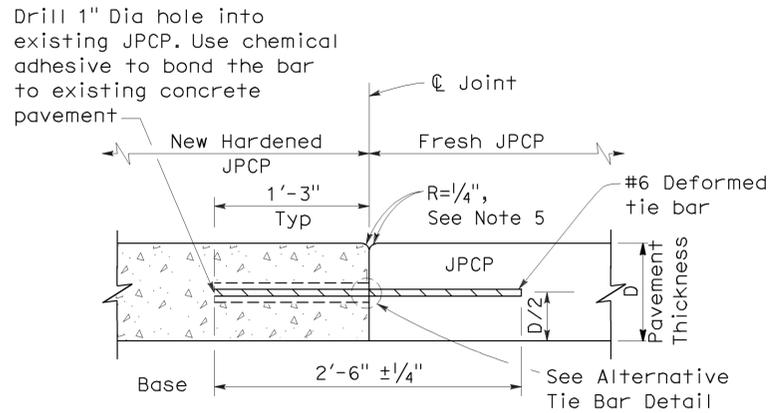
PLAN
NEW CONSTRUCTION
 See Notes 6 and 7

NOTES:

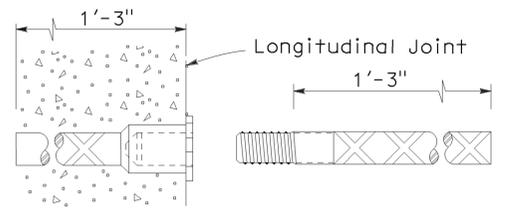
1. Transverse joints shall be constructed at right angles to the longitudinal pavement joints in new jointed plain concrete pavement and spaced at successive repeated intervals of 12', 15', 13' and 14'.
2. For transverse joint and dowel bar details not shown, See Revised Standard Plan RSP P10.
3. Construct longitudinal contraction joints as shown in Section A-A when more than one lane or shoulder widths are placed at one time. If constructing one lane at a time, use longitudinal construction joint, as shown in Section B-B.
4. For additional longitudinal joint details, see Revised Standard Plan RSP P18.
5. If fresh concrete is placed adjacent to existing concrete, the top corner of the new hardened concrete does not need to be rounded to the 1/4" radius as shown.
6. Joint spacing patterns do not apply to intersections.
7. Details can also apply to inside widening.
8. Dowel bars may be omitted from shoulders when the shoulder cross slope is not the same as the adjacent traffic lane.



SECTION A-A
LONGITUDINAL CONTRACTION JOINT



SECTION B-B
LONGITUDINAL CONSTRUCTION JOINT



ALTERNATIVE TIE BAR SPLICE DETAIL
 (Splice Coupler)

TIE BAR DETAILS

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**JOINTED PLAIN
 CONCRETE PAVEMENT**

NO SCALE

RSP P1 DATED MAY 15, 2009 SUPERSEDES STANDARD PLAN P1
 DATED MAY 1, 2006 - PAGE 119 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP P1

2006 REVISED STANDARD PLAN RSP P1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	10	12.0/19.8	276	319

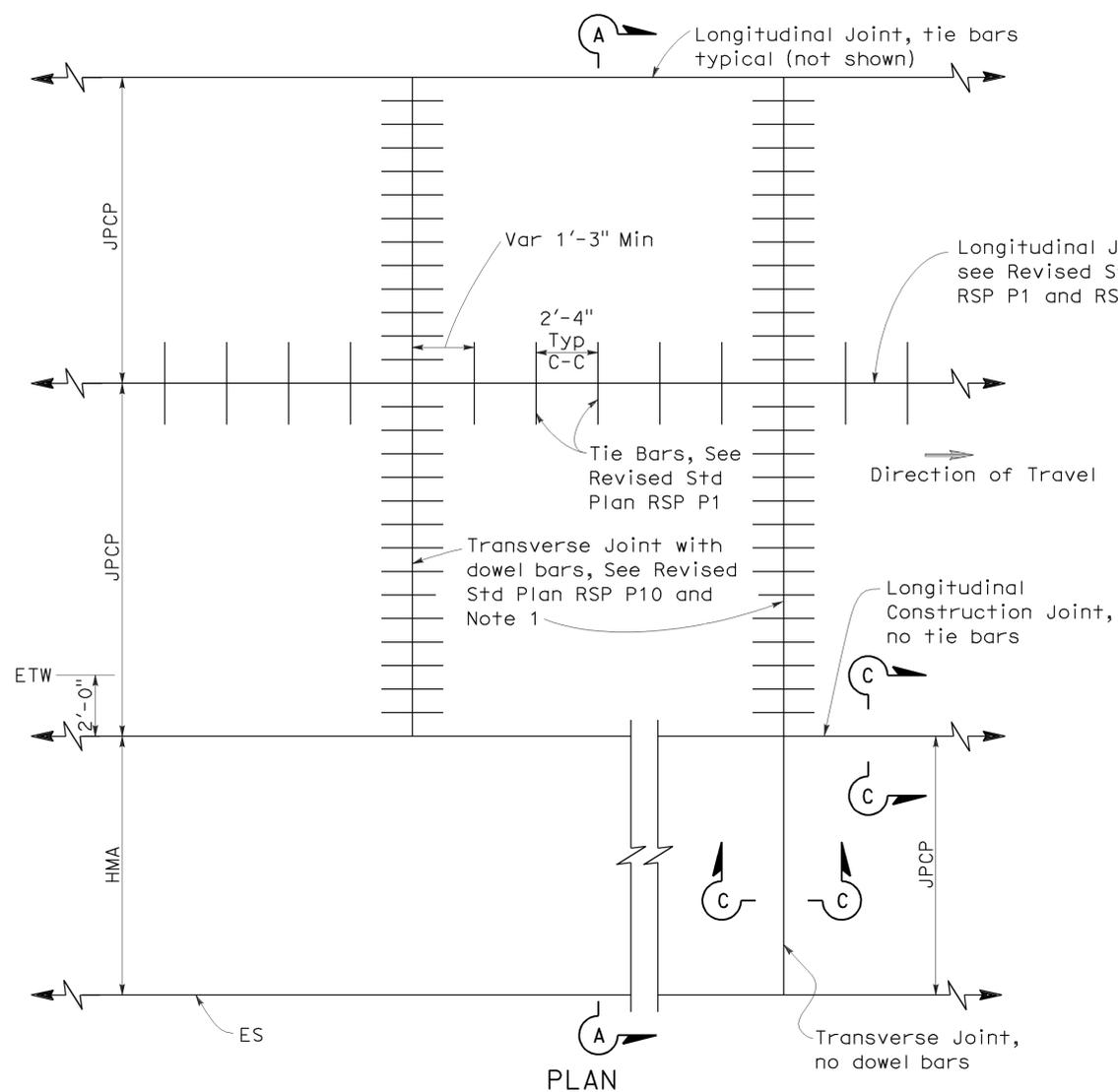
William K. Farnbach
 REGISTERED CIVIL ENGINEER
 June 5, 2009
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 William K. Farnbach
 No. C49042
 Exp. 9-30-10
 CIVIL
 STATE OF CALIFORNIA

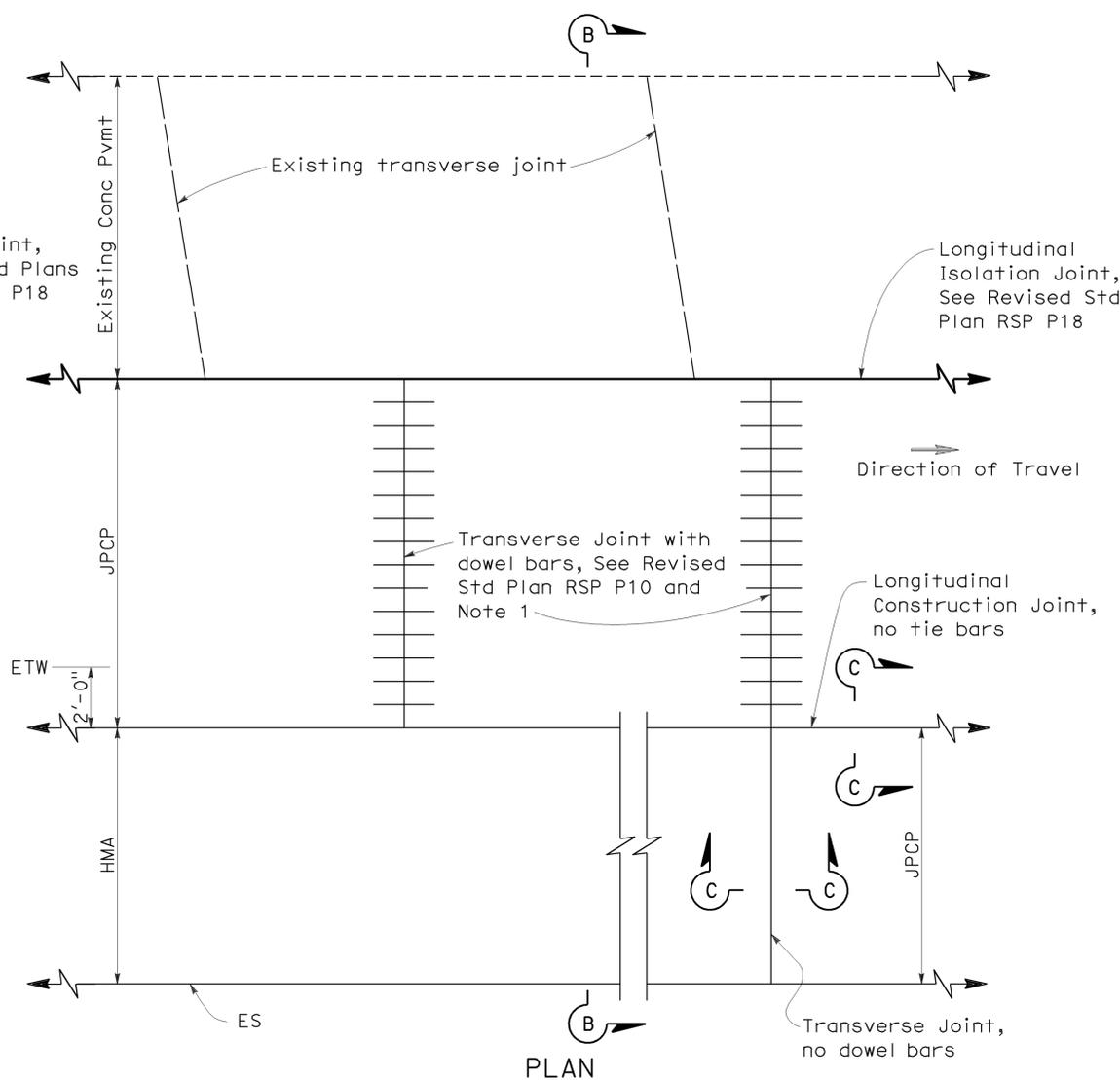
To accompany plans dated 8-3-09

NOTES:

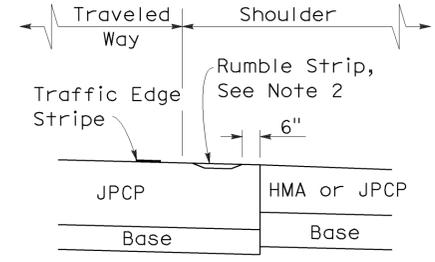
1. Transverse joints shall be constructed at right angles to the longitudinal pavement joints in new Jointed Plain Concrete Pavement and spaced at successive repeated intervals of 12', 15', 13' and 14'.
2. For locations of rumble strips, see project plans. For rumble strip details not shown, see Standard Plans A40A and A40B.
3. Joint spacing patterns do not apply to intersections.



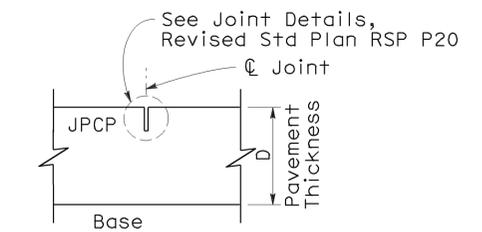
**PLAN
NEW CONSTRUCTION**



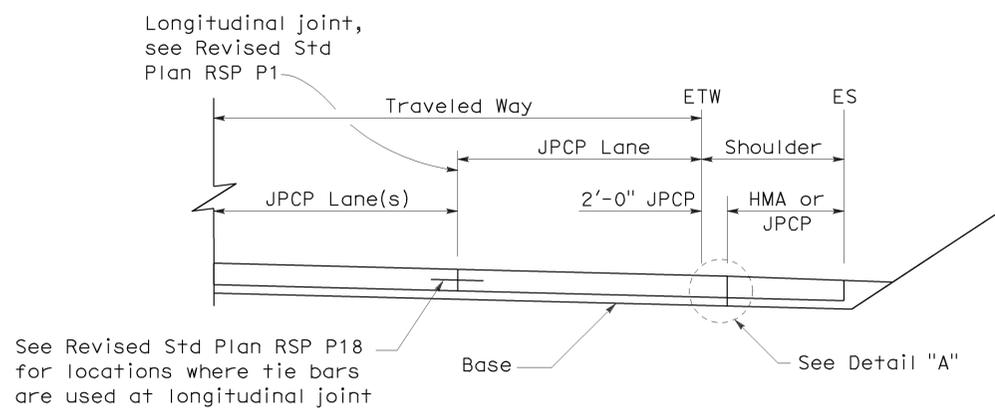
**PLAN
LANE/SHOULDER ADDITION OR RECONSTRUCTION**



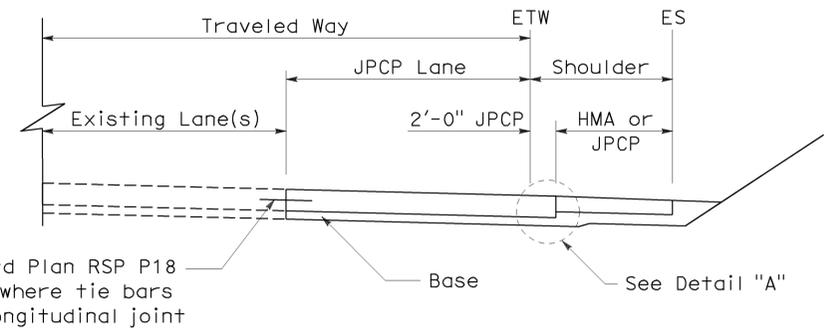
DETAIL "A"



**SECTION C-C
TRANSVERSE/LONGITUDINAL JOINT
(no dowel bars/tie bars)**



SECTION A-A

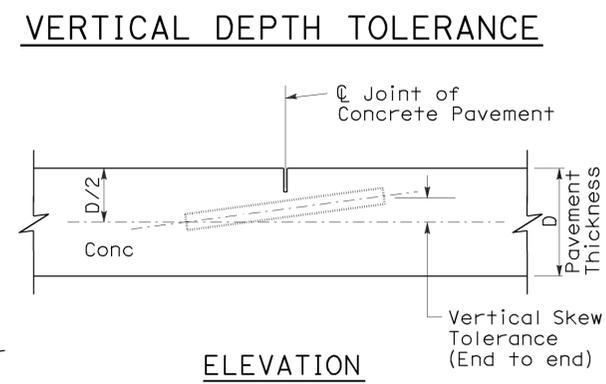
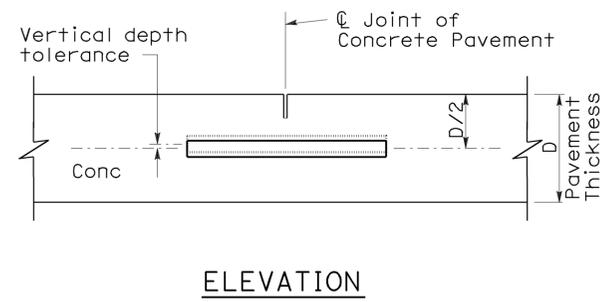
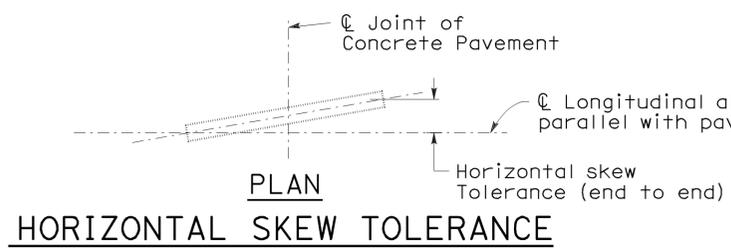
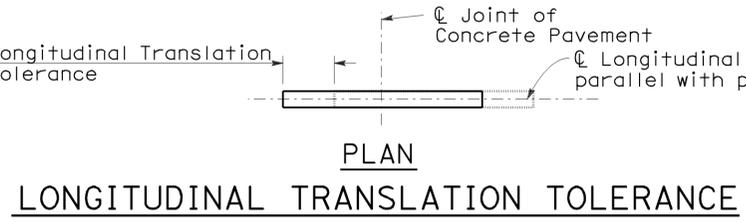
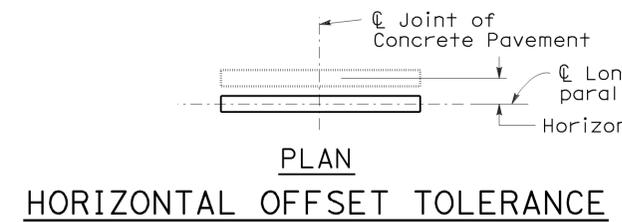
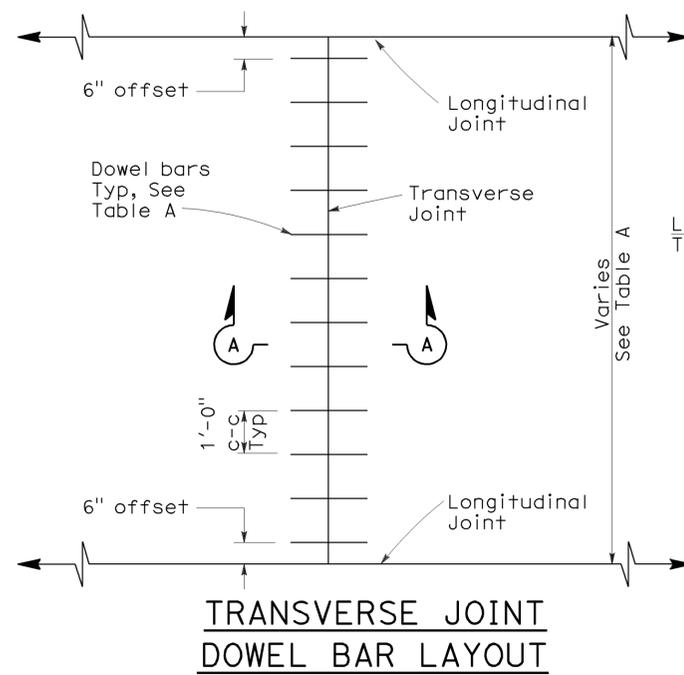


SECTION B-B

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**JOINTED PLAIN CONCRETE
 PAVEMENT-WIDENED SLAB DETAILS**
 NO SCALE

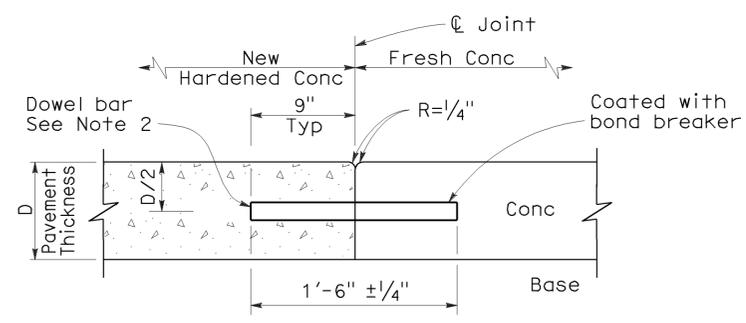
RSP P2 DATED JUNE 5, 2009 SUPERCEDES STANDARD PLAN P2
 DATED MAY 1, 2006 - PAGE 120 OF THE STANDARD PLANS BOOK DATED MAY 2006.

2006 REVISED STANDARD PLAN RSP P2

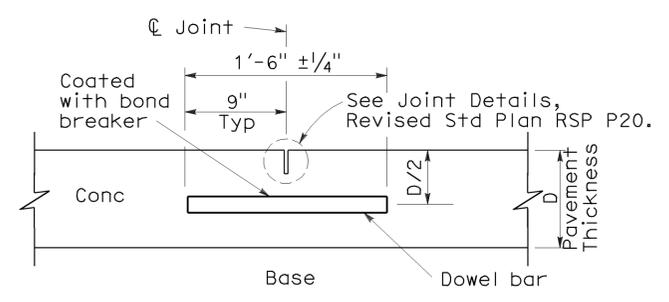


To accompany plans dated 8-3-09

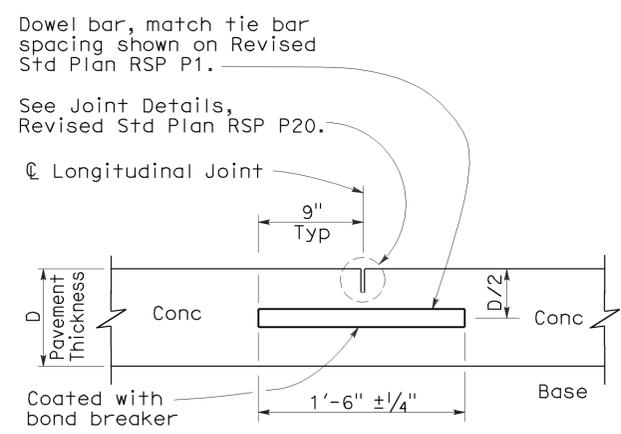
- NOTES:**
- See Revised Standard Plan RSP P1 for typical dowel bar placement and locations.
 - 1/2" Dia smooth dowel bars are to be used with a pavement thickness, D, equal to or greater than 0.70 feet. For pavement thickness, D, less than 0.70 feet, use 1/4" Dia smooth dowel bars.
 - For widths not shown, see Project Plans.
 - If fresh concrete pavement is placed adjacent to existing concrete pavement, the top corner of the existing concrete pavement does not need to be rounded to the 1/4" radius, as shown.



**SECTION A-A
TRANSVERSE
CONSTRUCTION JOINT DETAIL**



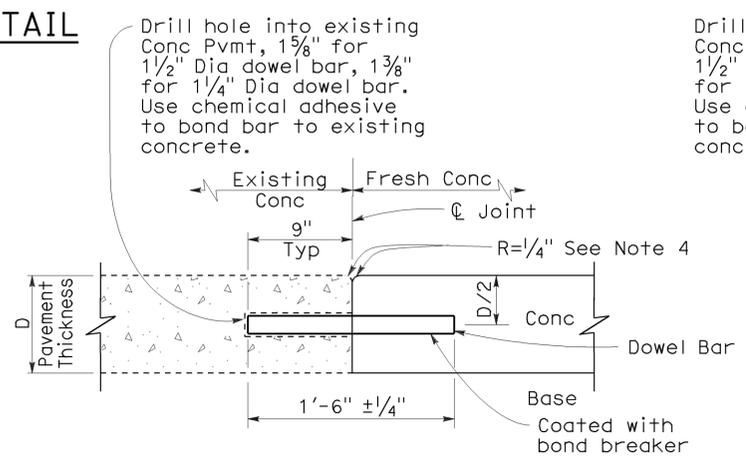
TRANSVERSE CONTRACTION JOINT



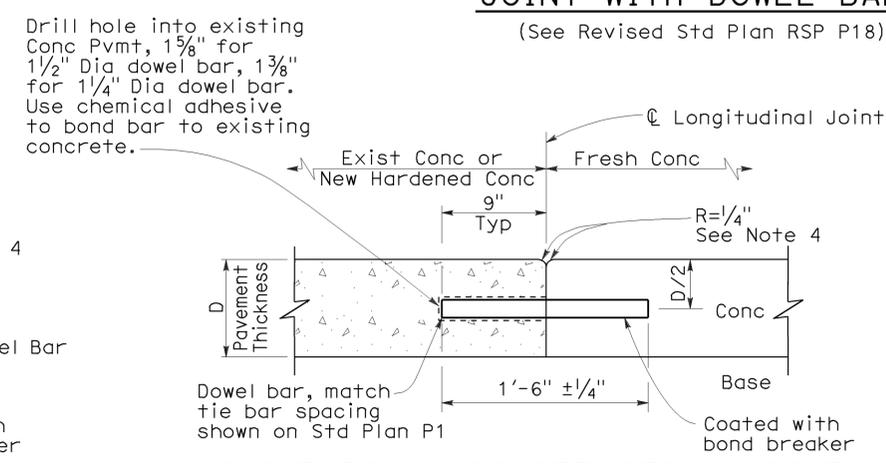
**LONGITUDINAL CONTRACTION
JOINT WITH DOWEL BARS**
(See Revised Std Plan RSP P18)

TABLE A (See Note 3)
Dowel Bar Transverse Spacing Table

Width between Longitudinal Joints	Number of Dowels between Longitudinal Joints
14'-0"	14
13'-0"	13
12'-0"	12
11'-0"	11
10'-0"	10
8'-0"	8
5'-0"	5
4'-0"	4



**TRANSVERSE CONSTRUCTION JOINT
FOR EXISTING CONCRETE PAVEMENT**
(Drill and bond locations)



**LONGITUDINAL CONSTRUCTION JOINT
WITH DOWEL BARS**
(See Revised Std Plan RSP P18)

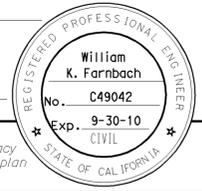
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**CONCRETE PAVEMENT-
DOWEL BAR
DETAILS**
NO SCALE

RSP P10 DATED MAY 15, 2009 SUPERSEDES STANDARD PLAN P10
DATED MAY 1, 2006 - PAGE 124 OF THE STANDARD PLANS BOOK DATED MAY 2006.

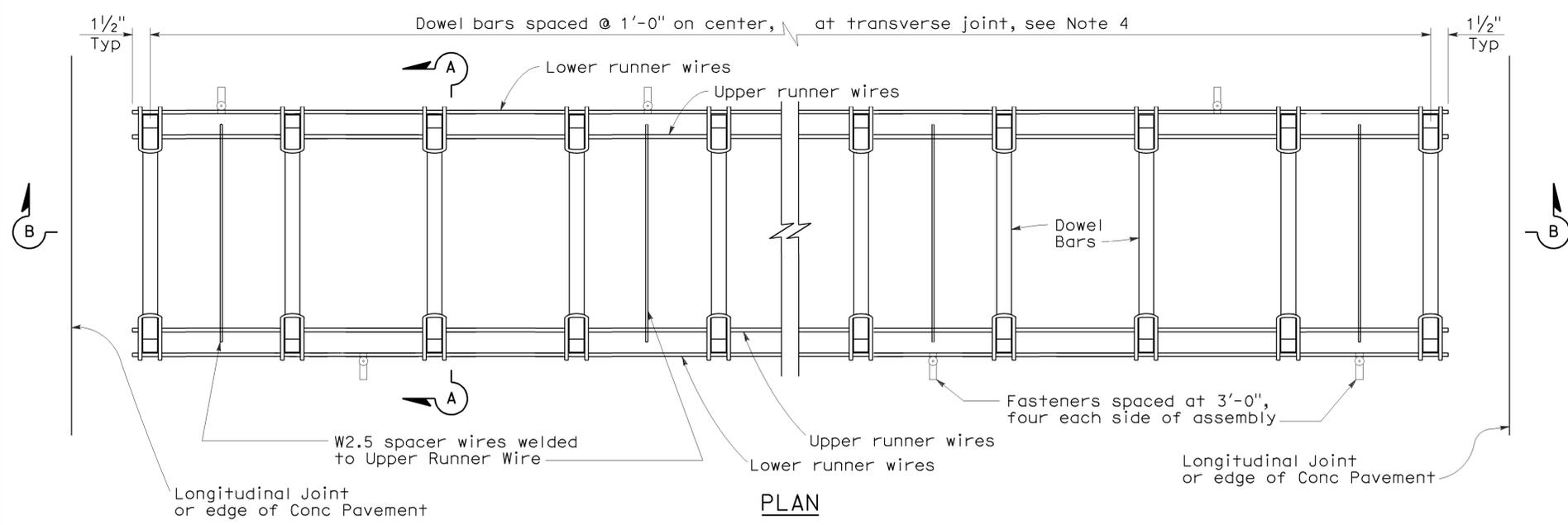
2006 REVISED STANDARD PLAN RSP P10

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	10	12.0/19.8	278	319

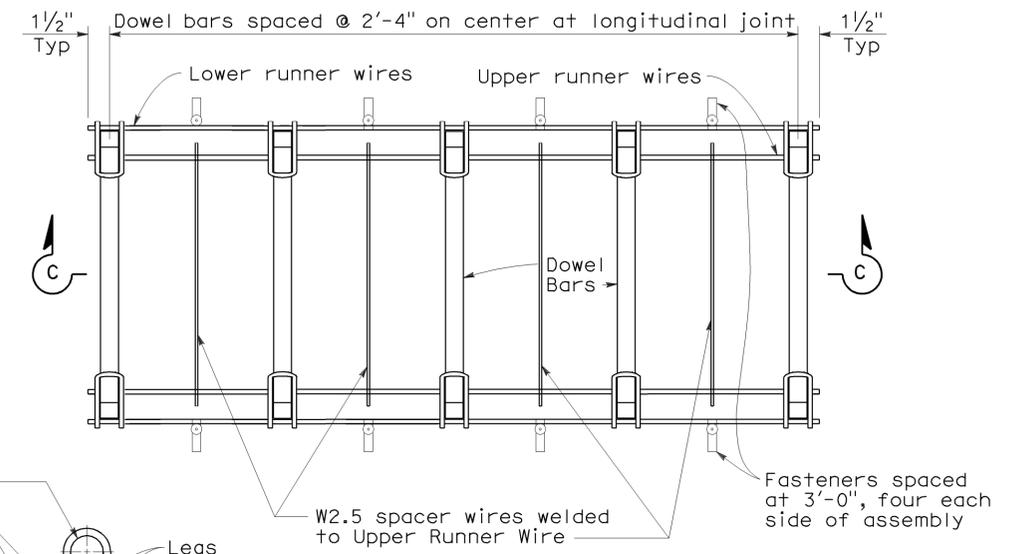
William K. Farnbach
 REGISTERED CIVIL ENGINEER
 May 15, 2009
 PLANS APPROVAL DATE
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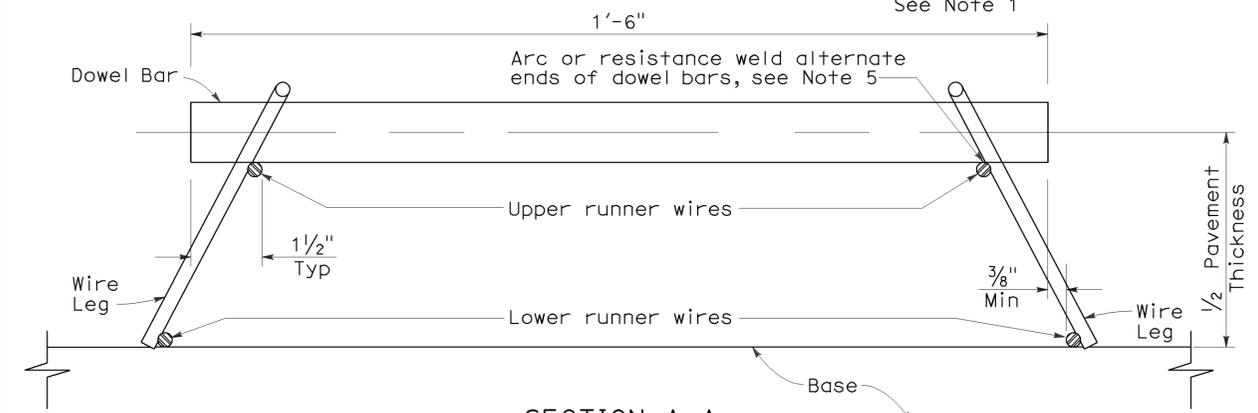
To accompany plans dated 8-3-09



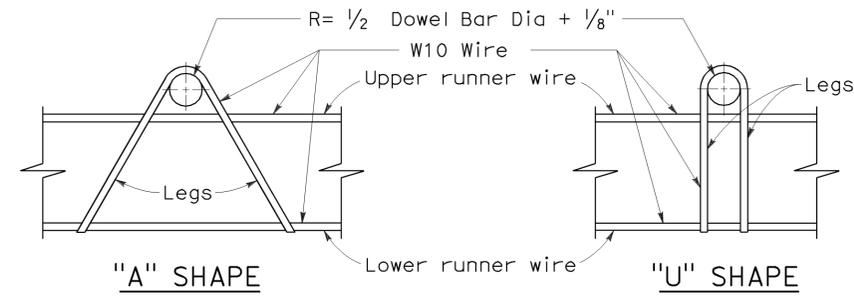
**PLAN
DOWEL BAR BASKET
(TRANSVERSE JOINT)**
See Note 1



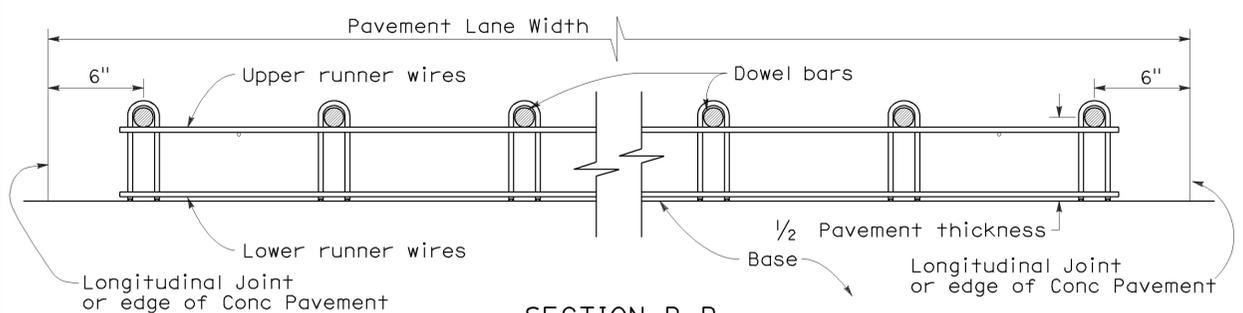
**PLAN
DOWEL BAR BASKET
(LONGITUDINAL JOINT)**
See Note 1



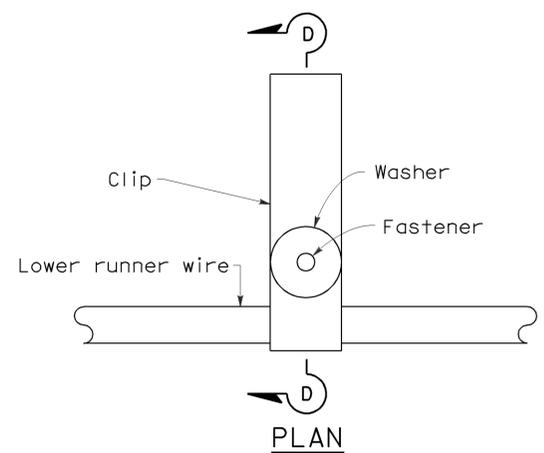
SECTION A-A



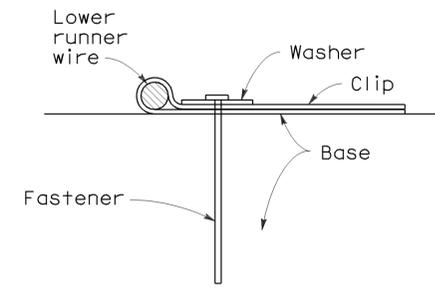
ASSEMBLY FRAME DETAILS



SECTION B-B
See Note 1



FASTENER DETAIL



SECTION D-D

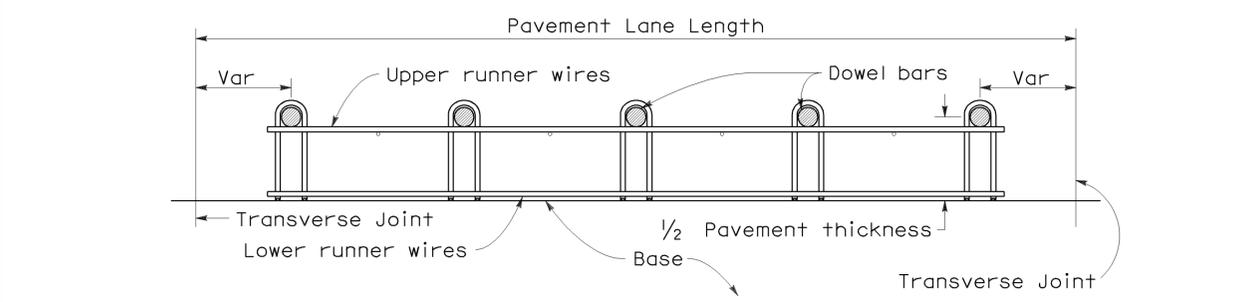
NOTES:

- "U" frame shape assembly shown. "U" frame shape or "A" frame shape are acceptable.
- Wire sizes shown are minimum required.
- All wire intersections are to be resistance welded.
- Use tie bar spacing for longitudinal dowel bar locations. See Revised Std Plans RSPs P1, P2, and P3 for tie bar requirements.
- Weld may be at top or bottom of dowel bar.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**CONCRETE PAVEMENT-
DOWEL BAR BASKET
DETAILS**

NO SCALE



SECTION C-C
See Notes 1 and 4

RSP P12 DATED MAY 15, 2009 SUPERSEDES RSP P12 DATED NOVEMBER 17, 2006 AND STANDARD PLAN P12 DATED MAY 1, 2006 - PAGE 125 OF THE STANDARD PLANS BOOK DATED MAY 2006.

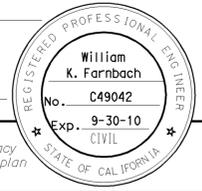
REVISED STANDARD PLAN RSP P12

2006 REVISED STANDARD PLAN RSP P12

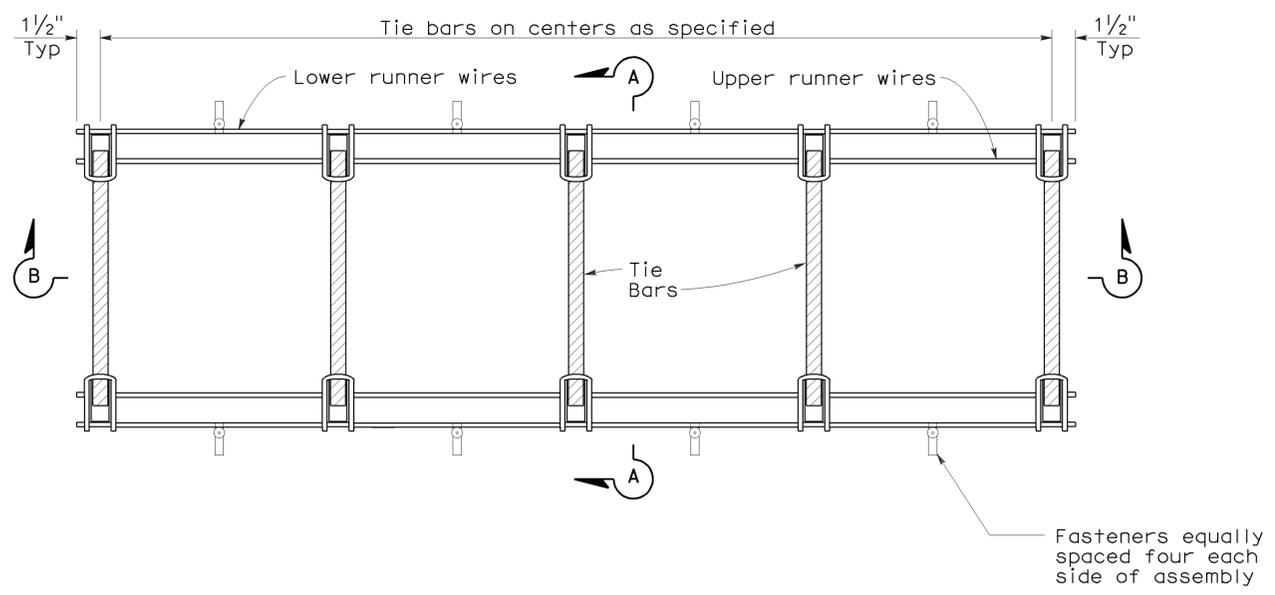
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	10	12.0/19.8	279	319

William K. Farnbach
 REGISTERED CIVIL ENGINEER
 May 15, 2009
 PLANS APPROVAL DATE

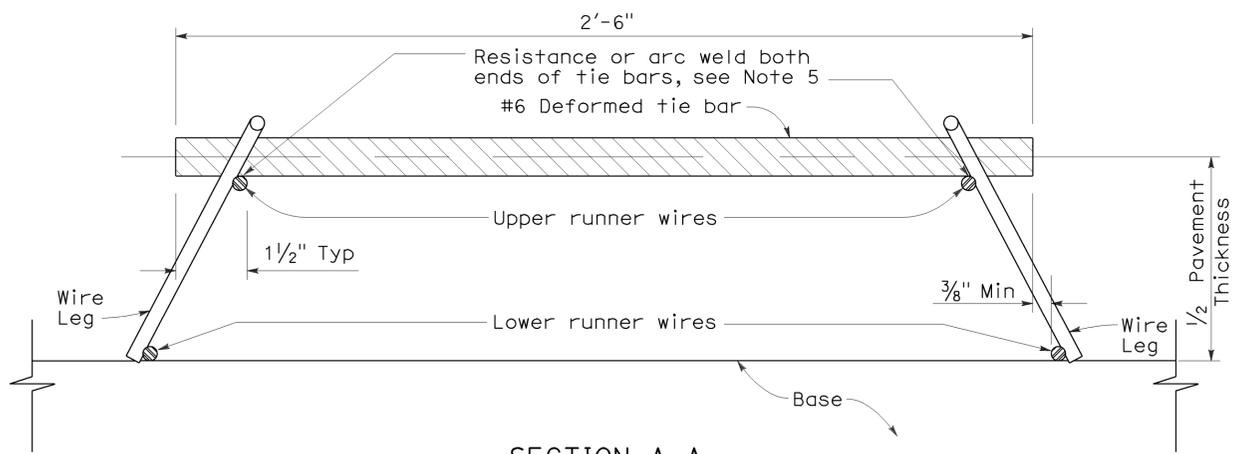
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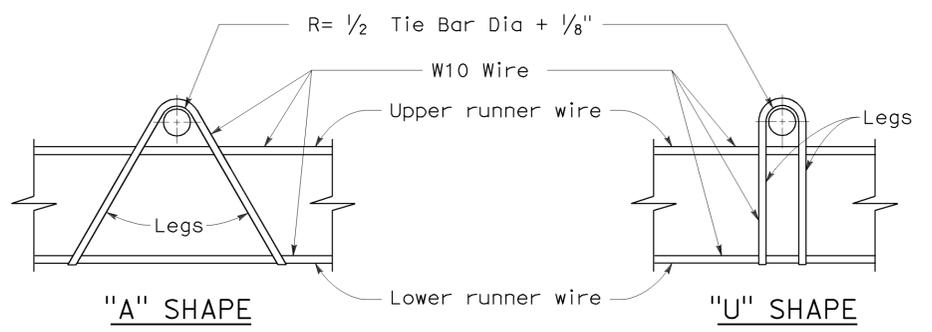
To accompany plans dated 8-3-09



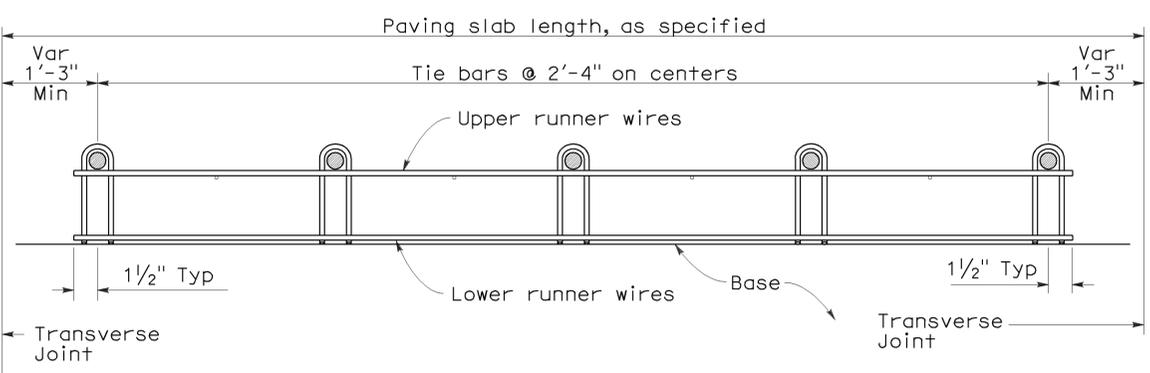
PLAN
TIE BAR BASKET
(TIE BARS AT LONGITUDINAL JOINT)
See Note 1



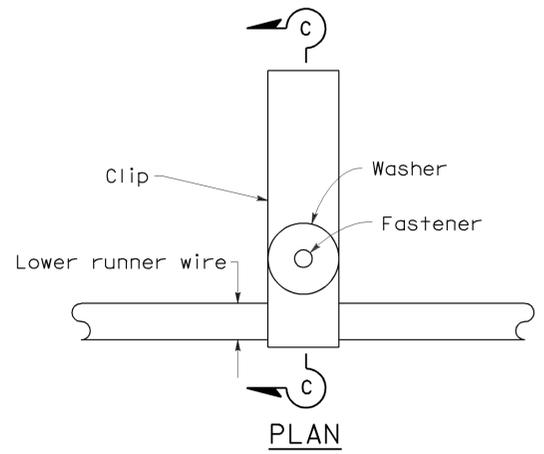
SECTION A-A



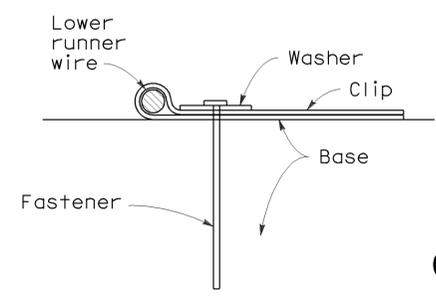
ASSEMBLY FRAME DETAILS



SECTION B-B
See Note 1



PLAN



SECTION C-C

FASTENER DETAIL

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**CONCRETE PAVEMENT -
TIE BAR BASKET
DETAILS**

NO SCALE

RSP P17 DATED MAY 15, 2009 SUPERSEDES RSP P17 DATED NOVEMBER 17, 2006 AND STANDARD PLAN P17 DATED MAY 1, 2006 - PAGE 126 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP P17

2006 REVISED STANDARD PLAN RSP P17

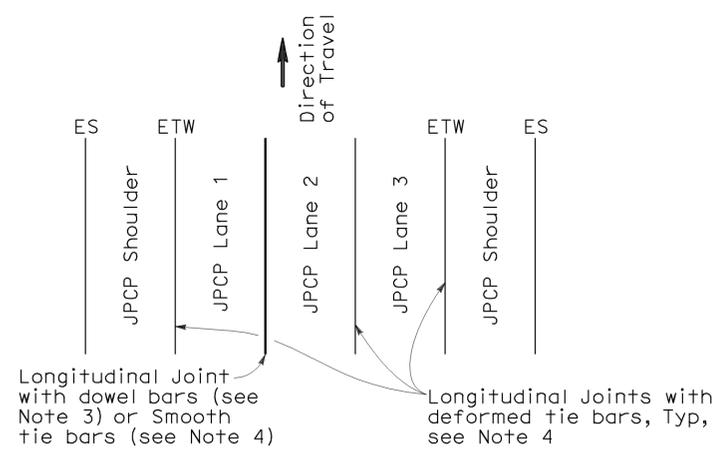
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	10	12.0/19.8	280	319

William K. Farnbach
 REGISTERED CIVIL ENGINEER
 June 5, 2009
 PLANS APPROVAL DATE

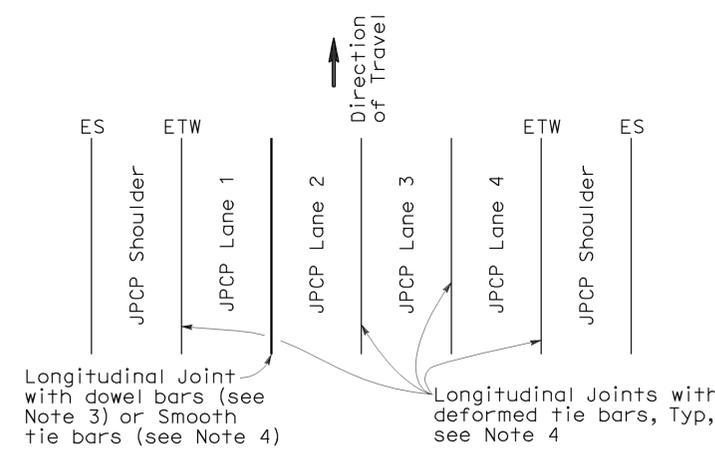
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 8-3-09

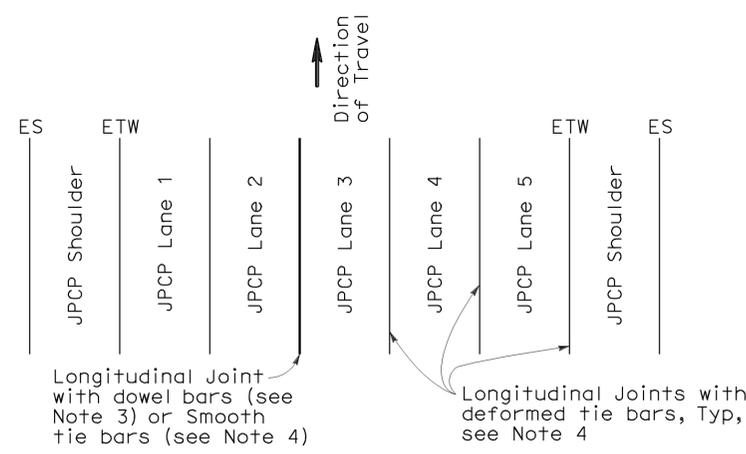
2006 REVISED STANDARD PLAN RSP P18



3 LANES WITH TIED CONCRETE SHOULDERS
PLAN

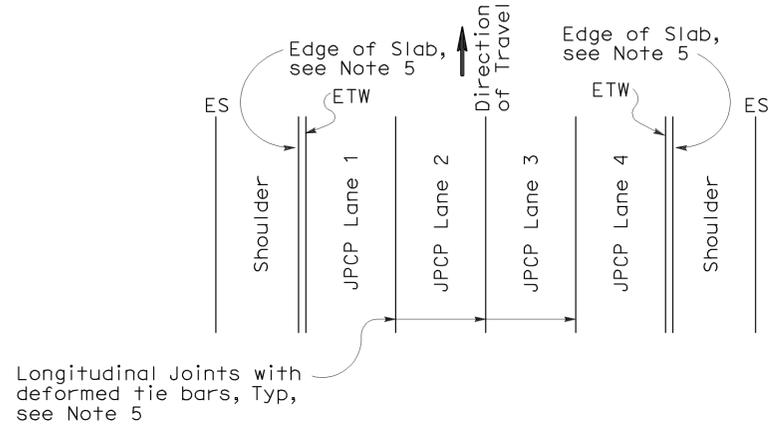


4 LANES WITH TIED CONCRETE SHOULDERS
PLAN

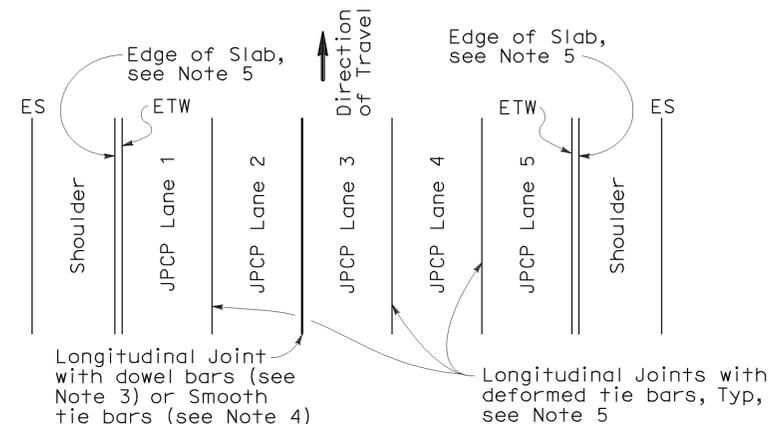


5 LANES WITH TIED CONCRETE SHOULDERS
PLAN

- NOTES:**
- Where Lean Concrete Base is not used as base material, the joint filler material used for the longitudinal isolation joint shall only extend to the bottom of the new concrete slab. See Detail A.
 - Use $\frac{5}{8}'' \pm \frac{1}{16}''$ dimension for silicone sealant.
 - See Revised Standard Plan RSP P10 for longitudinal joint with dowel bars.
 - See Revised Standard Plan RSP P1.
 - See Revised Standard Plan RSP P2.

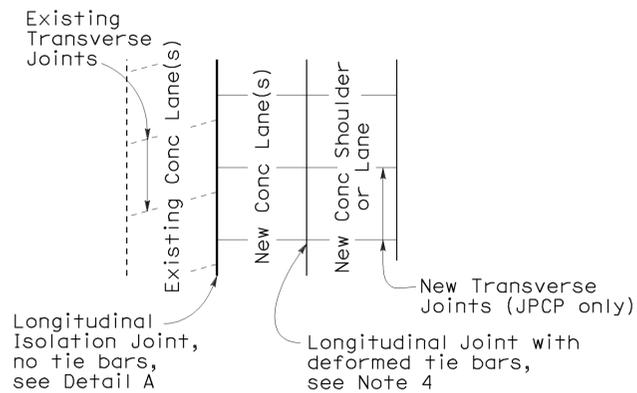


4 LANES OR LESS WITH WIDENED SLAB
PLAN



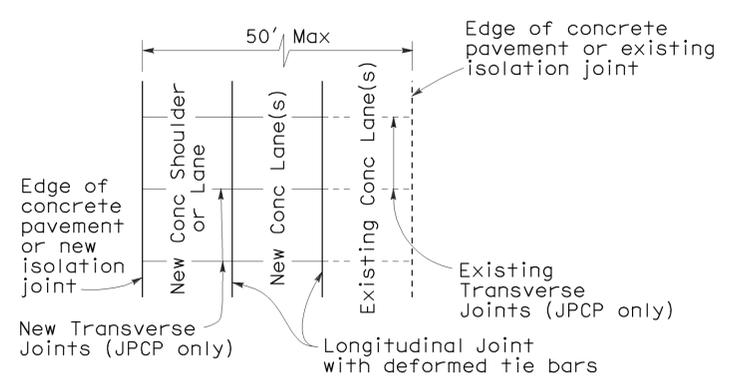
5 LANES WITH WIDENED SLAB
PLAN

NEW CONSTRUCTION
Location of Longitudinal Joints (For JPCP)



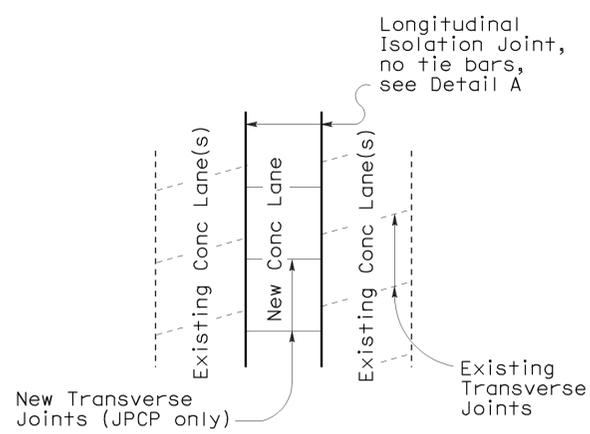
CASE 1
PLAN

Transverse Joints do not align between new and existing



CASE 2
PLAN

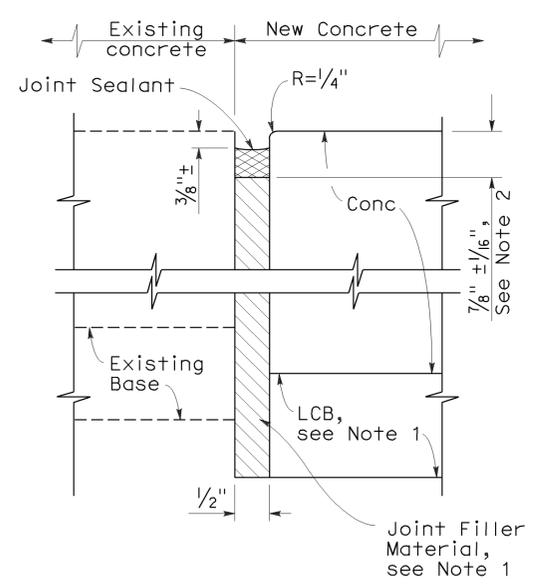
Transverse Joints align between new and existing



CASE 3 (INTERIOR LANE REPLACEMENT)
PLAN

Transverse Joints do not align between new and existing

LANE/SHOULDER ADDITION OR RECONSTRUCTION
(For JPCP and CRCP)



DETAIL A
ISOLATION JOINT

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**CONCRETE PAVEMENT-
LANE SCHEMATICS
AND ISOLATION JOINT DETAIL**

NO SCALE

RSP P18 DATED JUNE 5, 2009 SUPERSEDES RSP P18 DATED MAY 15, 2009, RSP P18 DATED NOVEMBER 17, 2006 AND STANDARD PLAN P18 DATED MAY 1, 2006 - PAGE 127 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP P18

NOTE:

1. Tie bars, dowel bars, and reinforcement are not shown in joint seal details, see Revised Standard Plans RSP P1, RSP P3, RSP P10, RSP P35, RSP P45, or RSP P46 as applicable.

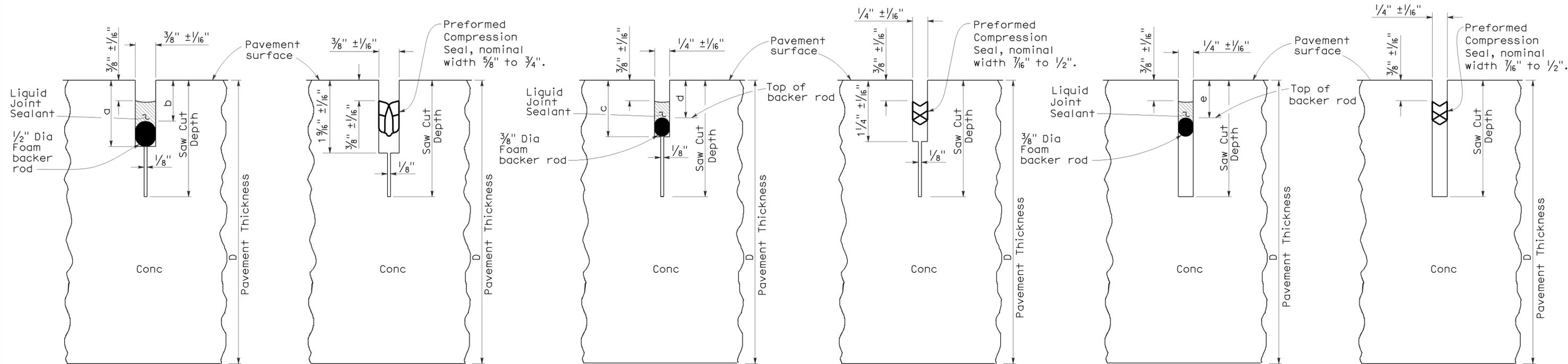
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	10	12.0/19.8	281	319

William K. Farnbach
 REGISTERED CIVIL ENGINEER
 No. C49042
 Exp. 9-30-10
 STATE OF CALIFORNIA

May 15, 2009
 PLANS APPROVAL DATE

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To accompany plans dated 8-3-09



LIQUID SEALANT COMPRESSION SEAL LIQUID SEALANT COMPRESSION SEAL LIQUID SEALANT COMPRESSION SEAL

TYPE A1 **TYPE A2** **TYPE B**

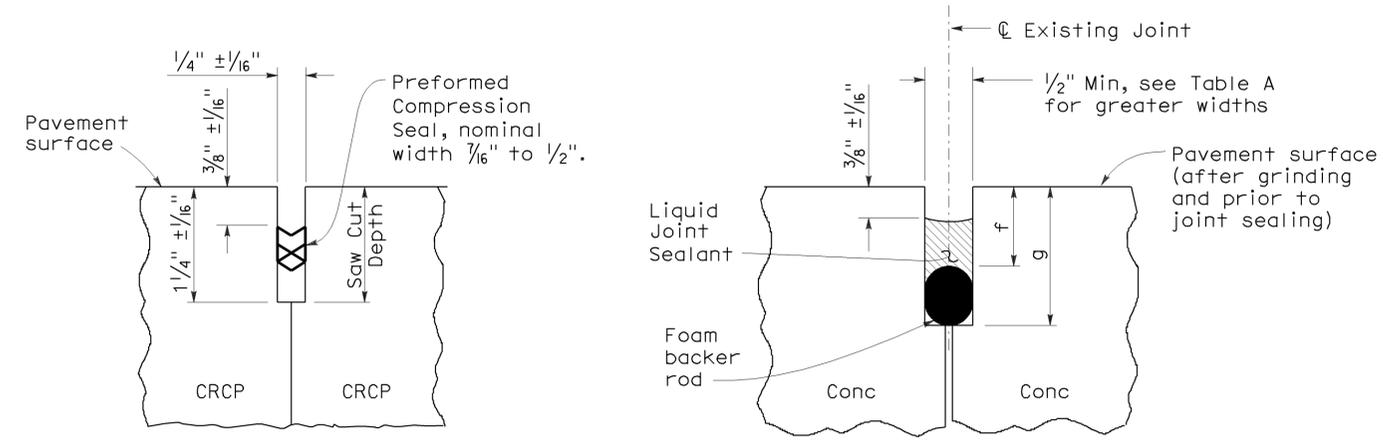
Transverse Contraction Joints Longitudinal Contraction Joints Longitudinal or Transverse Contraction Joint

LIQUID SEALANT RESERVOIR DEPTH

LIQUID SEALANT MATERIAL	3/8" Joint Width Type A1		1/4" Joint Width Type A2		1/4" Joint Width Type B
	DIMENSION		DIMENSION		DIMENSION
	a	b	c	d	e
SILICONE	1" ± 1/16"	5/8" ± 1/16"	15/16" ± 1/16"	9/16" ± 1/16"	9/16" ± 1/16"
ASPHALT RUBBER	1 3/16" ± 1/16"	3/4" ± 1/16"	1 1/16" ± 1/16"	11/16" ± 1/16"	11/16" ± 1/16"

TABLE A (TYPE R JOINT)

Sawn Joint Width	Backer Rod Diameter ± 1/16"	DIMENSION "f"	DIMENSION "g"
1"	1 5/16"	7/8"	2 1/4"
7/8"	1 3/16"	13/16"	2"
3/4"	1"	3/4"	1 3/4"
5/8"	7/8"	11/16"	1 1/2"
1/2"	11/16"	5/8"	1 1/4"



COMPRESSION SEAL LIQUID SEALANT

TYPE C **TYPE R**

Transverse and Longitudinal Construction Joints (For CRCP) Retrofit Transverse and Longitudinal Joints

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
CONCRETE PAVEMENT-JOINT DETAILS
 NO SCALE

RSP P20 DATED MAY 15, 2009 SUPERSEDES STANDARD PLAN P20
 DATED MAY 1, 2006 - PAGE 128 OF THE STANDARD PLANS BOOK DATED MAY 2006.

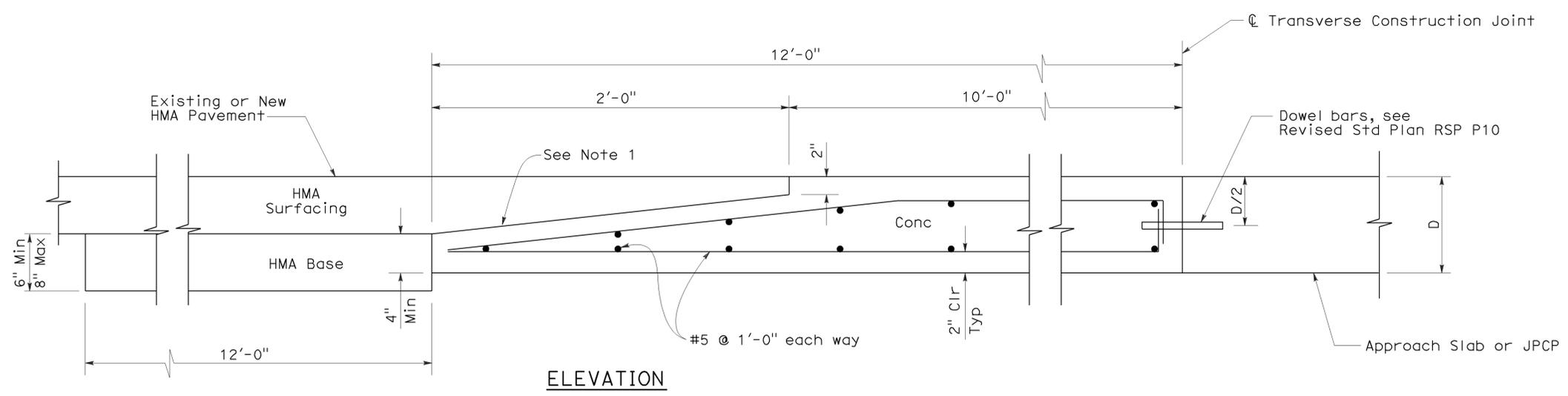
REVISED STANDARD PLAN RSP P20

2006 REVISED STANDARD PLAN RSP P20

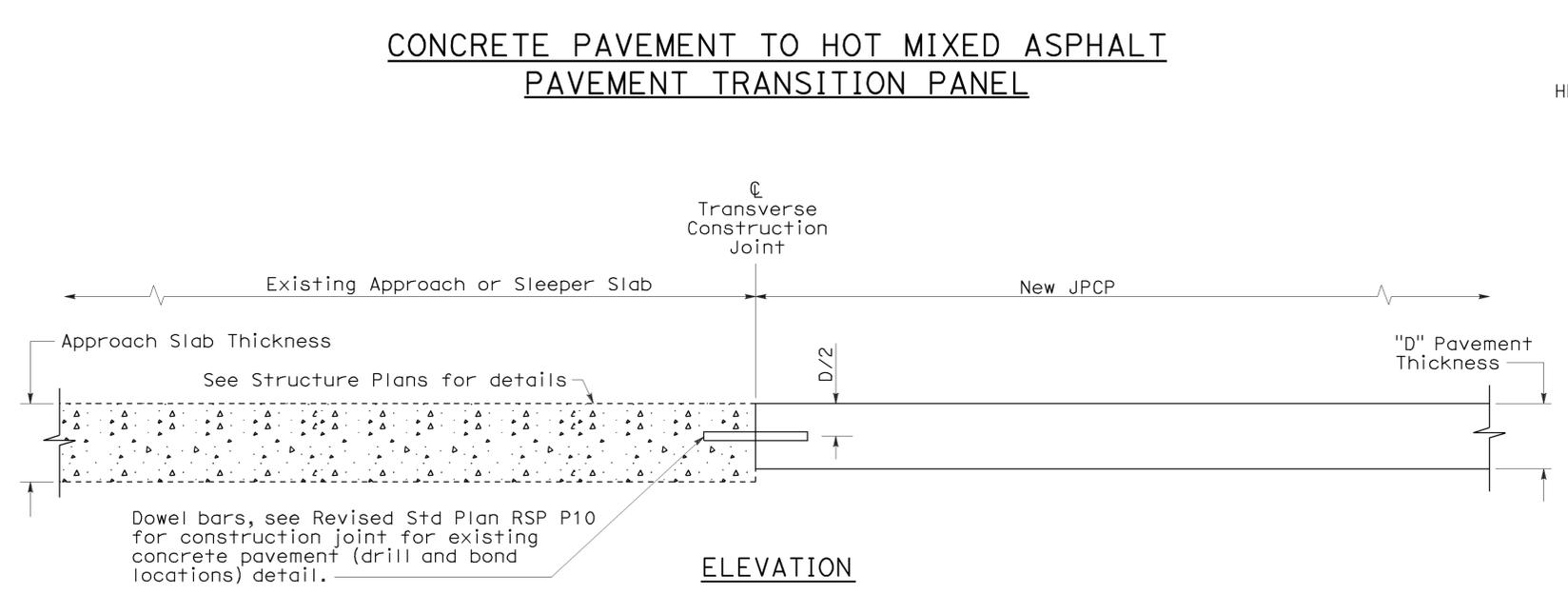
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	10	12.0/19.8	282	319

William K. Farnbach
 REGISTERED CIVIL ENGINEER
 May 15, 2009
 PLANS APPROVAL DATE
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To accompany plans dated 8-3-09

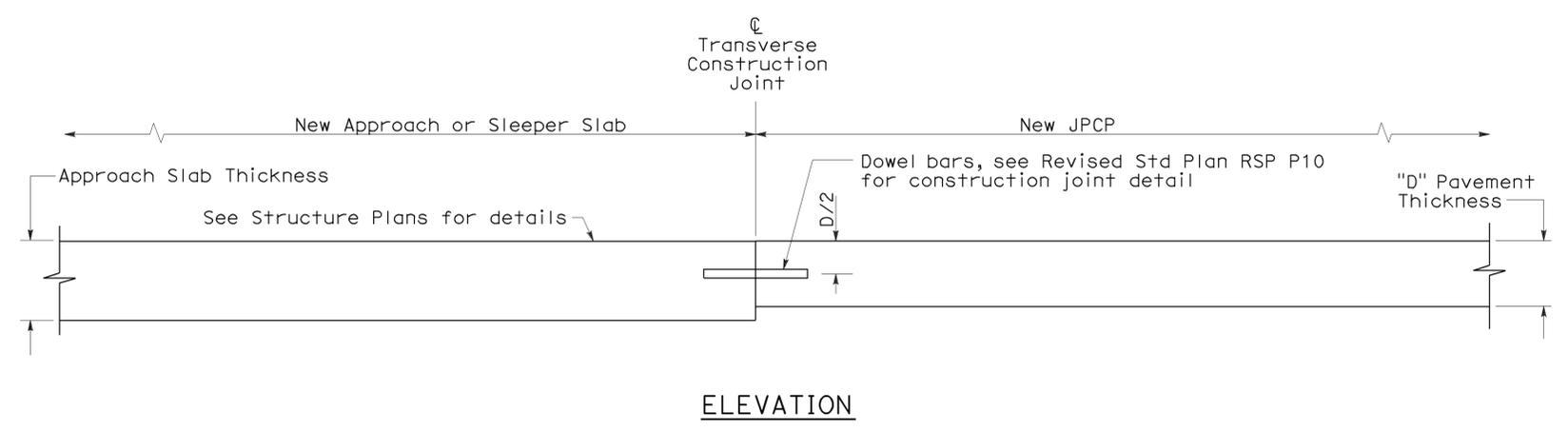


CONCRETE PAVEMENT TO HOT MIXED ASPHALT PAVEMENT TRANSITION PANEL



PAVEMENT END ANCHOR

NOTE:
1. Heavy broom finish.



CONCRETE PAVEMENT TRANSITION TO APPROACH OR SLEEPER SLAB

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**JOINTED PLAIN CONCRETE PAVEMENT-
END PANEL
PAVEMENT TRANSITIONS**
NO SCALE

RSP P30 DATED MAY 15, 2009 SUPERSEDES STANDARD PLAN P30
DATED MAY 1, 2006 - PAGE 129 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP P30

2006 REVISED STANDARD PLAN RSP P30

NOTES:

1. Details for gore area paving are applicable to both exit and entrance ramps.
2. Transverse Joint Layouts are not shown. Refer to Revised Standard Plan RSP P1 or Project Plans for details regarding joint layouts, tie bars, and dowel bars not shown.
3. WWF 4 x 4 - W4.0 x W4.0 can be used in place of steel reinforcement for gore area paving only.
4. Omit longitudinal joint when concrete on ramp shoulder is less than 3'-0".
5. Place joint perpendicular to ramp longitudinal joints. Match location of joint with ramp transverse joints.
6. Place joint perpendicular to ramp longitudinal joints. Match location of joint with mainline transverse joints.
7. Isolation joint detail shown on Revised Standard Plan RSP P18.
8. For jointed plain concrete pavement, transverse joints to be spaced from fixed transverse joint and shall follow spacing pattern on Revised Standard Plan RSP P1. Minimum spacing shall be 6 feet.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	10	12.0/19.8	283	319

William K. Farnbach
REGISTERED CIVIL ENGINEER

May 15, 2009
PLANS APPROVAL DATE

William K. Farnbach
No. C49042
Exp. 9-30-10
CIVIL
STATE OF CALIFORNIA

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To accompany plans dated 8-3-09

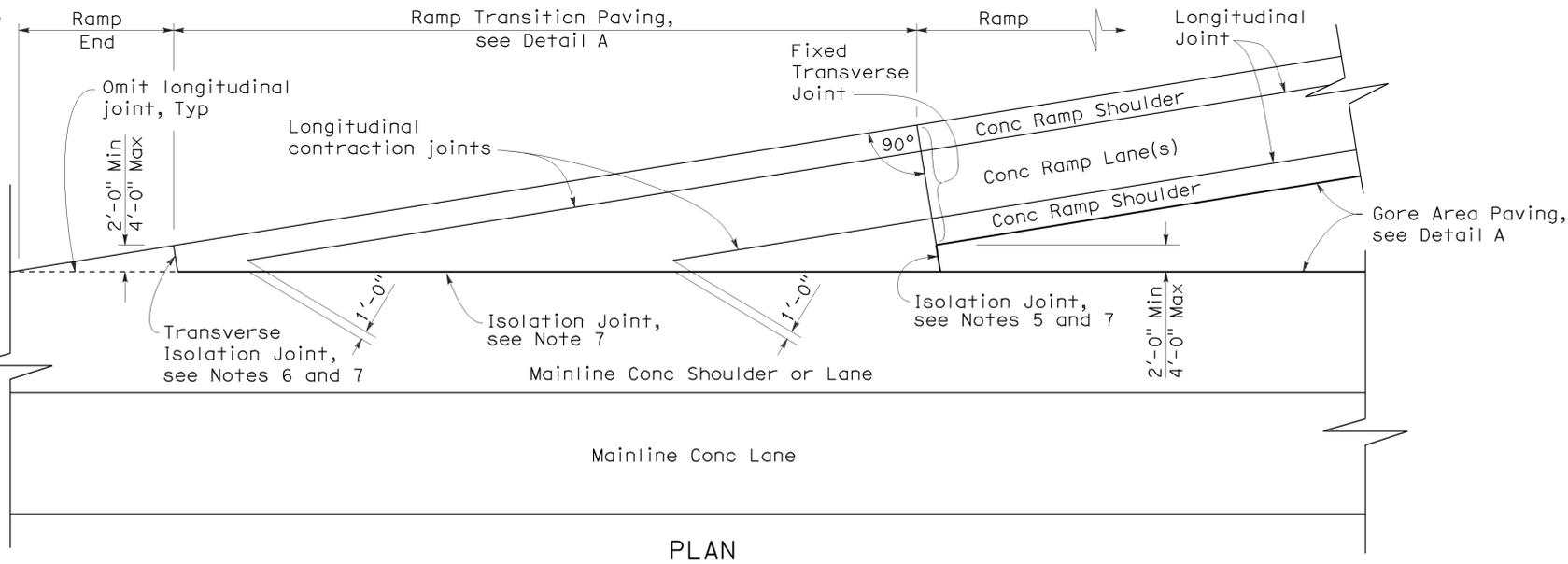
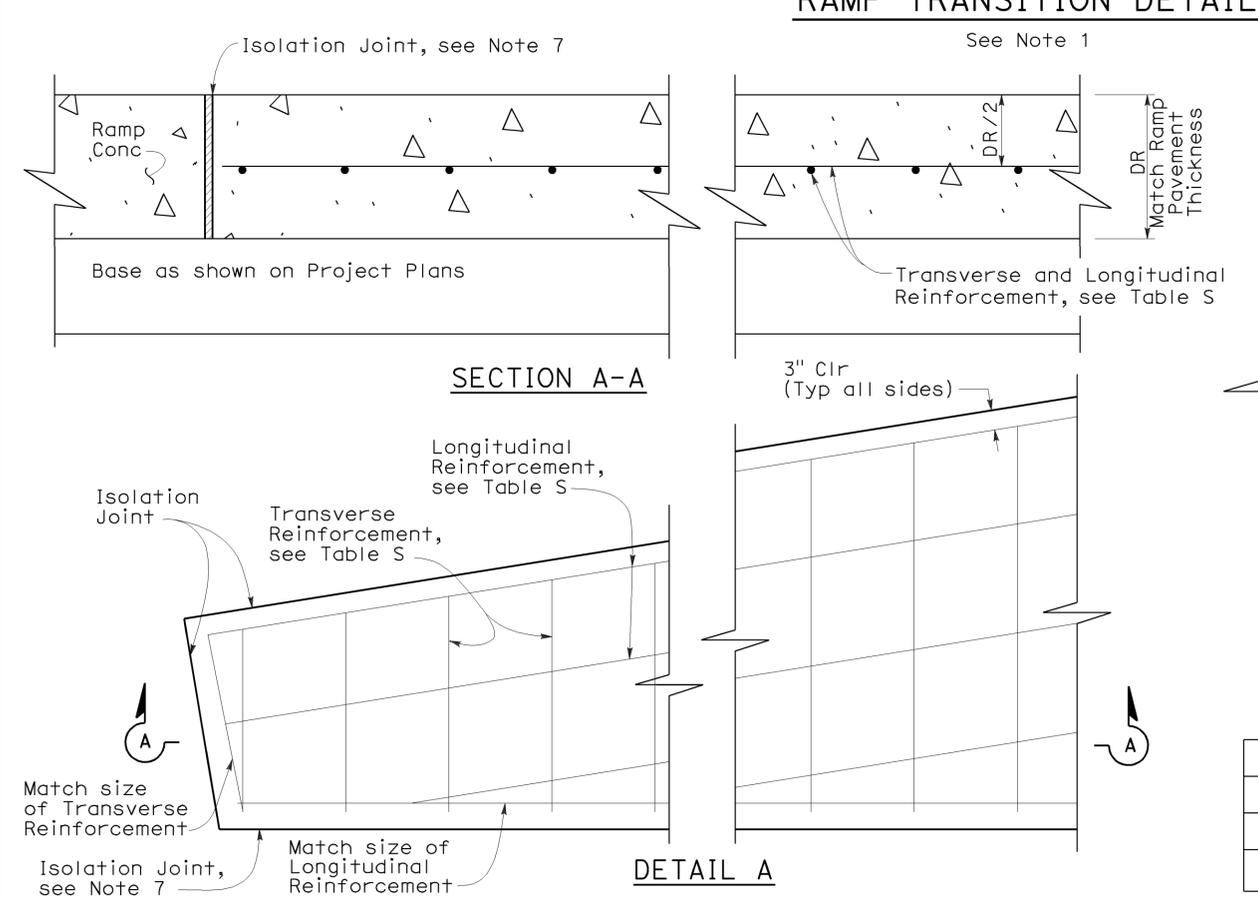
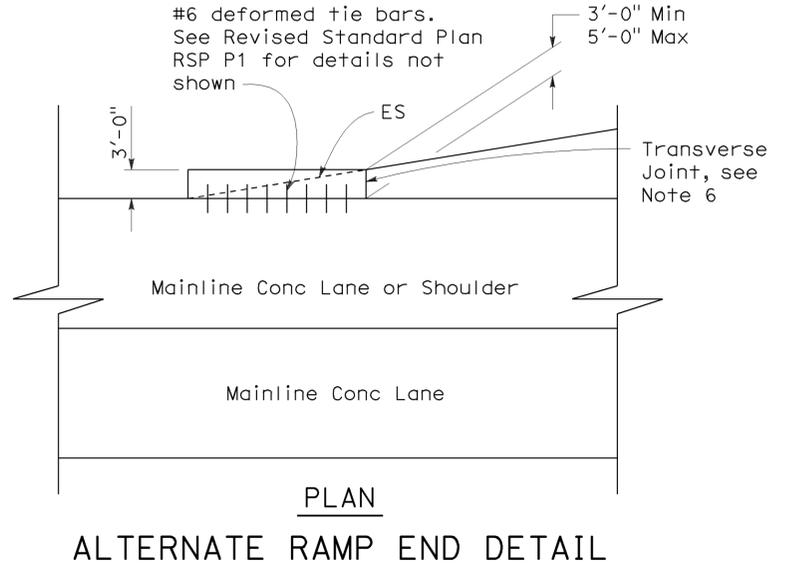
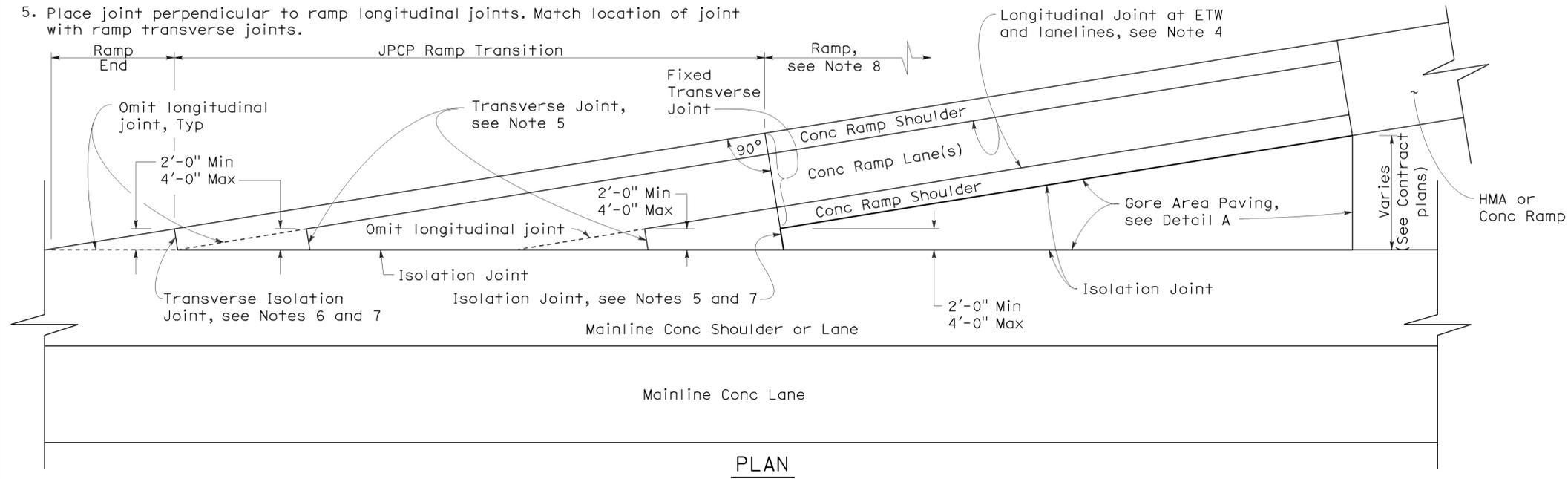


TABLE S
(For JPCP and CRCP)

Location	Transverse Reinf	Longitudinal Reinf
Gore Area Paving	#4 @ 1'-0" *	#4 @ 1'-0" *
Ramp Transition (JPCP)	#6 @ 1'-6"	#6 @ 9"
Ramp Transition (CRCP)	See NSP P4, Table No. 2	See NSP P4, Table No. 1

* See Note 3

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CONCRETE PAVEMENT - RAMP TRANSITION PAVING DETAILS

NO SCALE

RSP P35 DATED MAY 15, 2009 SUPERSEDES STANDARD PLAN P35
DATED MAY 1, 2006 - PAGE 131 OF THE STANDARD PLANS BOOK DATED MAY 2006.

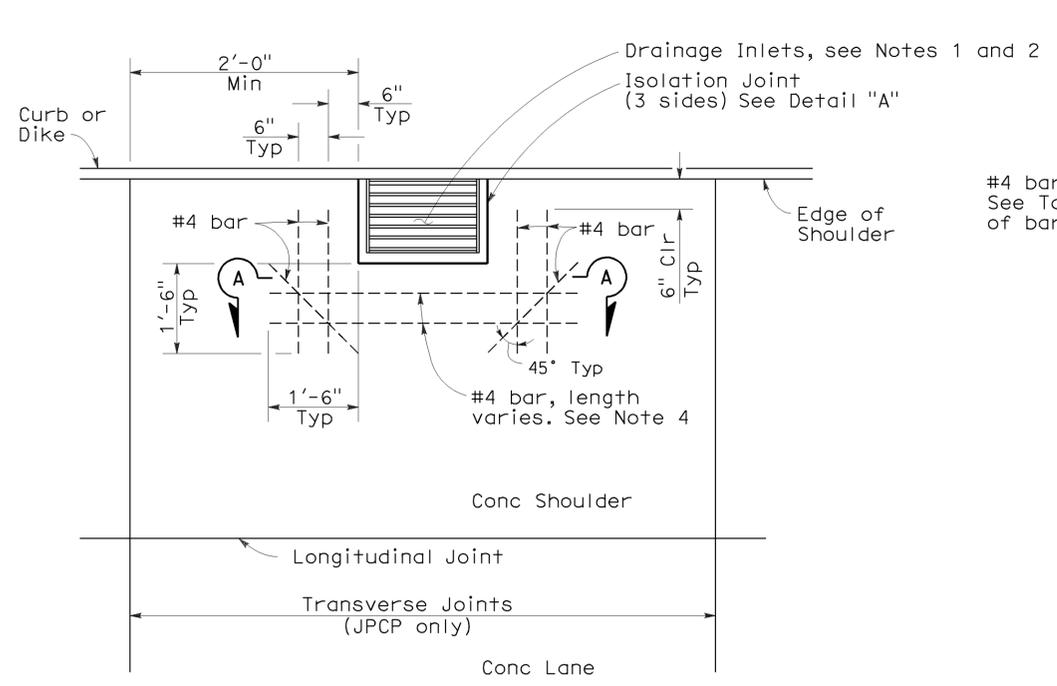
REVISED STANDARD PLAN RSP P35

2006 REVISED STANDARD PLAN RSP P35

To accompany plans dated 8-3-09

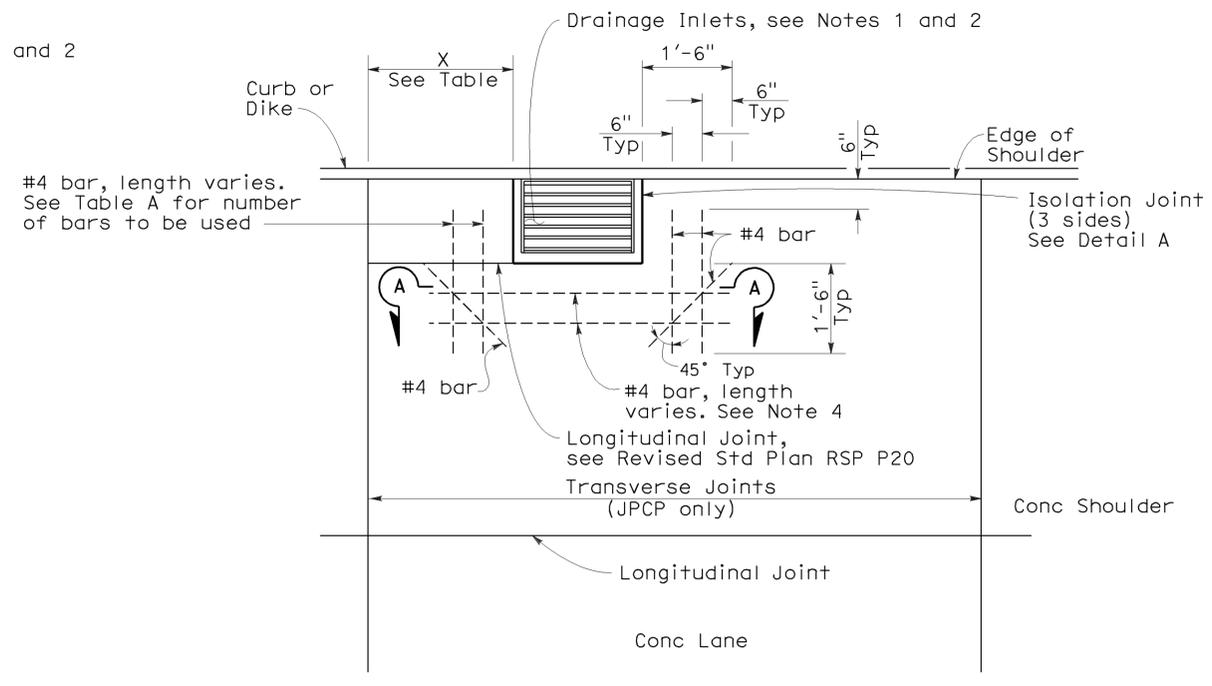
NOTES:

1. Refer to Project Plans for location and Type of drainage inlets.
2. Top of inlet shall be flush with shoulder surface.
3. Extend joint filler material to bottom of Lean Concrete Base. Where Lean Concrete Base is not used as base material, the joint filler material shall only extend to the bottom of the new concrete pavement.
4. For Jointed Plain Concrete Pavement only. For Continuously Reinforced Concrete Pavement, terminate pavement steel reinforcement 2" clear from all outside edges of isolation joint.
5. For Jointed Plain Concrete Pavement only. For Continuously Reinforced Concrete Pavement, see New Standard Plan NSP P4.
6. Dowel and tie bars not shown, see Revised Standard Plan RSP P1.



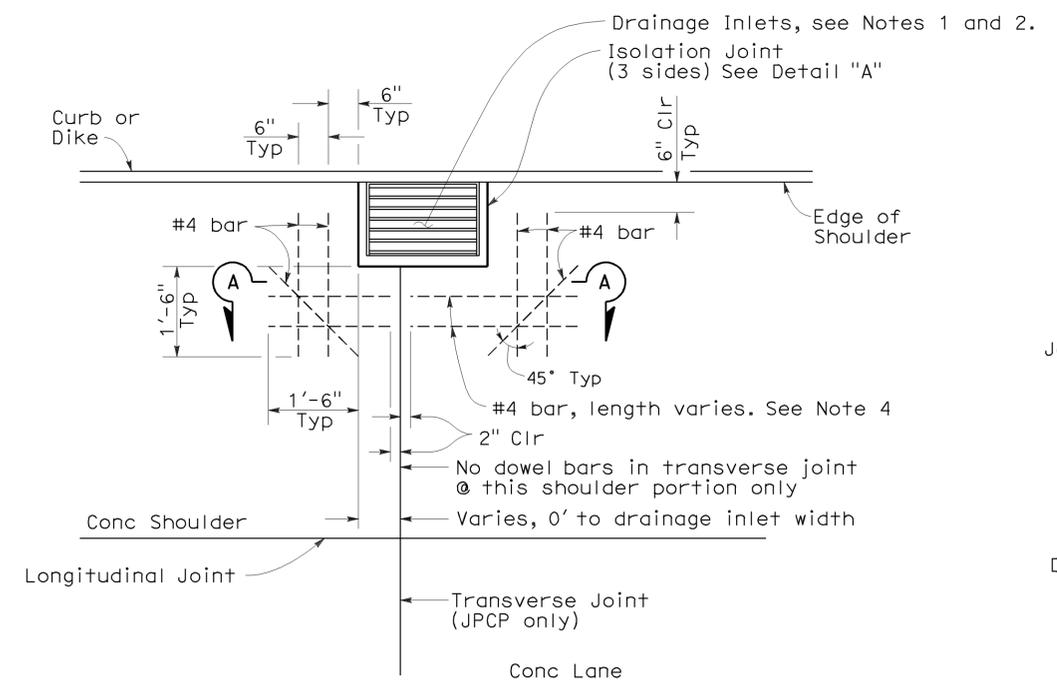
CASE 1

Transverse joint more than 2'-0" clear of drainage inlet wall or no transverse joint



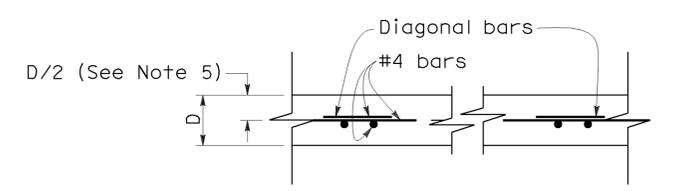
CASE 3

Transverse joint within 2'-0" of drainage inlet wall, or matches drainage inlet wall.



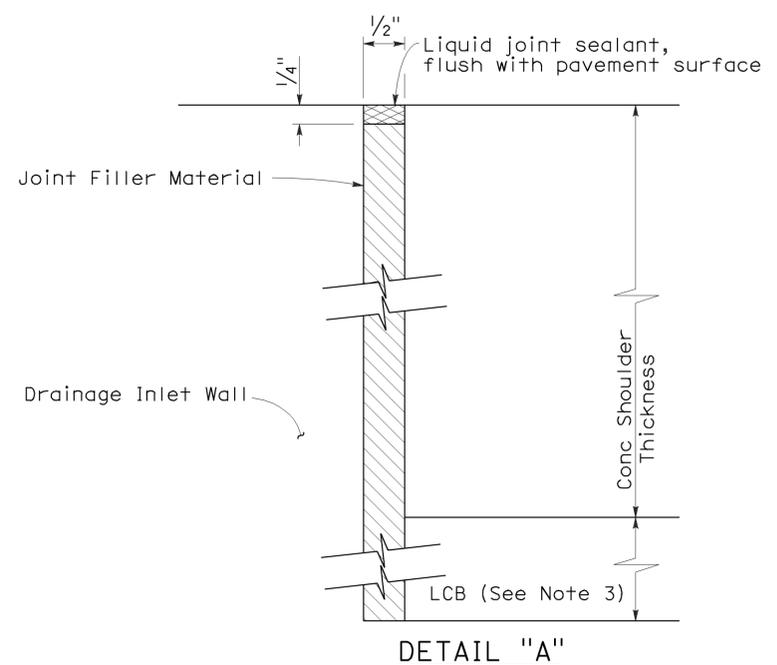
CASE 2

Transverse joint intersects drainage inlet, or matches drainage inlet wall.



SECTION A-A

D = Pavement Thickness



DETAIL "A"

ISOLATION JOINT AROUND DRAINAGE INLET

TABLE A

DISTANCE X	BARS REQUIRED
2'-0" to 1'-6"	2
1'-6" to 9"	1 @ X/2
9" or less	None

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**CONCRETE PAVEMENT-
 DRAINAGE INLET
 DETAILS No. 1**
 NO SCALE

RSP P45 DATED MAY 15, 2009 SUPERSEDES STANDARD PLAN P45
 DATED MAY 1, 2006 - PAGE 132 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP P45

2006 REVISED STANDARD PLAN RSP P45

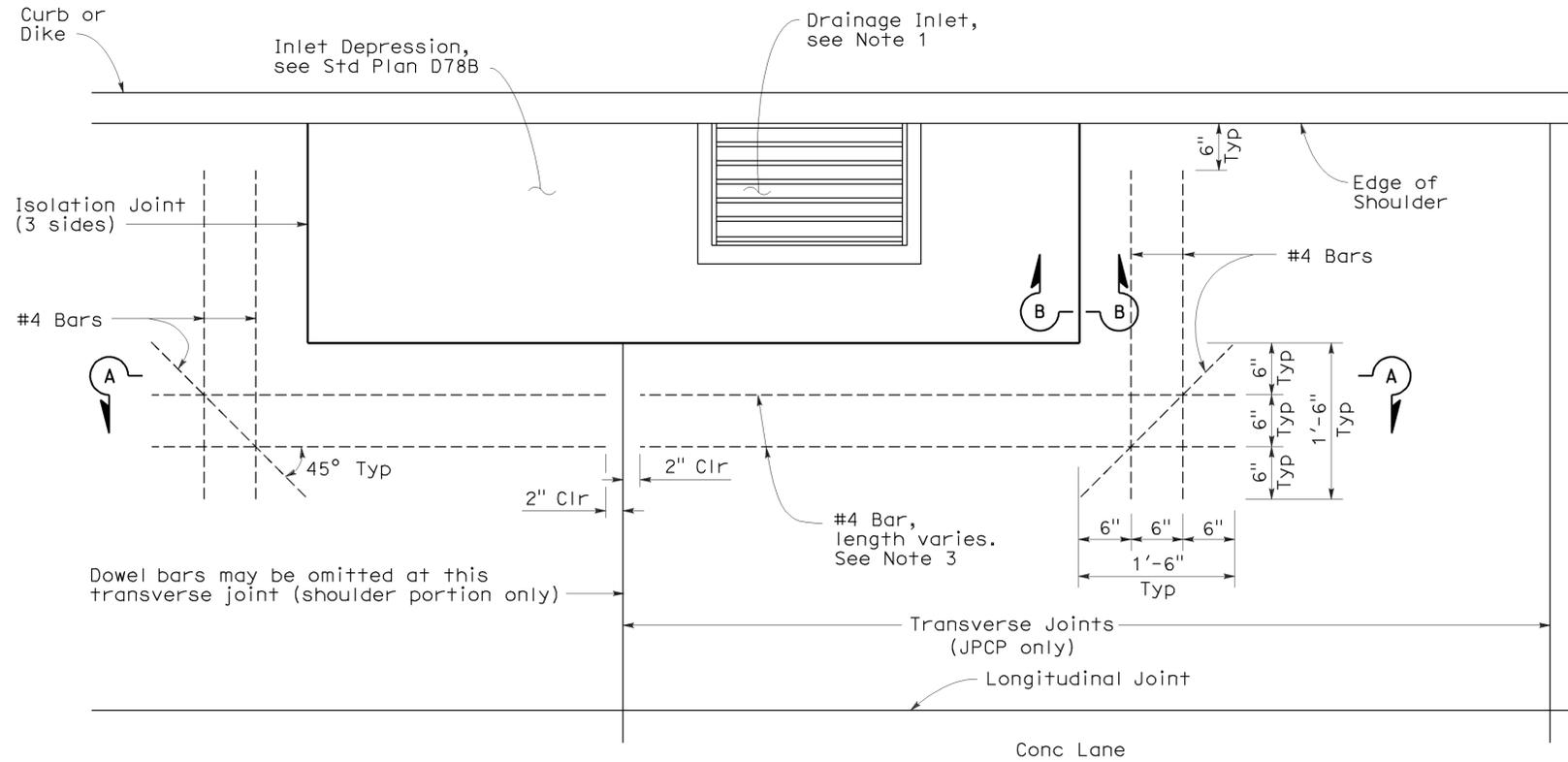
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	10	12.0/19.8	285	319

William K. Farnbach
 REGISTERED CIVIL ENGINEER
 May 15, 2009
 PLANS APPROVAL DATE

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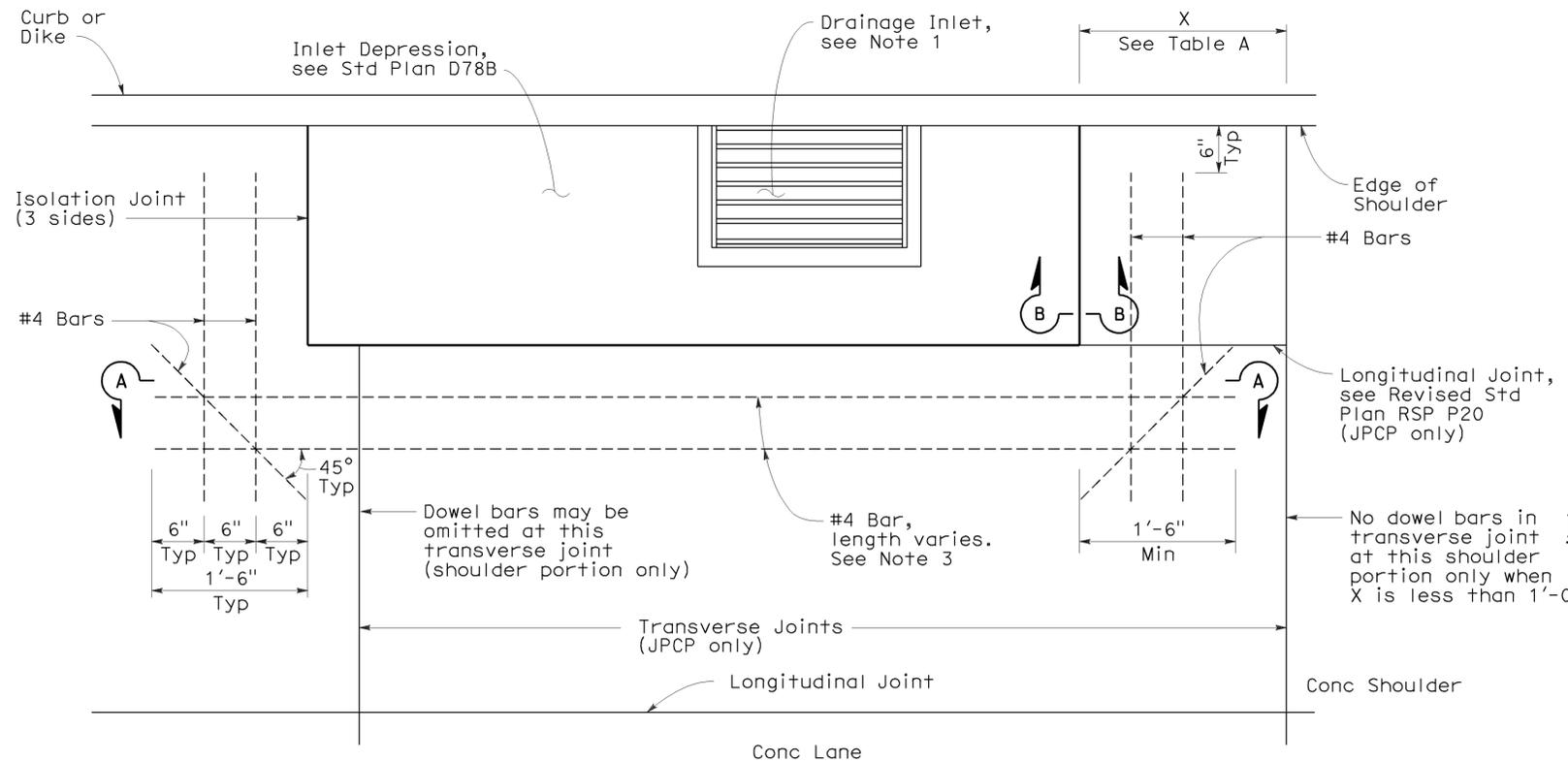
To accompany plans dated 8-3-09

2006 REVISED STANDARD PLAN RSP P46



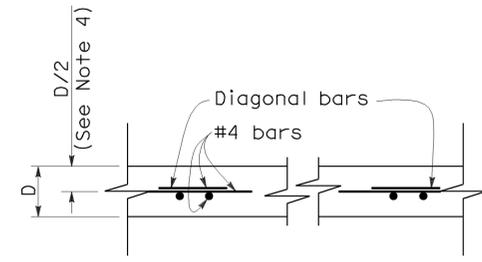
CASE A

Transverse Joint intersects inlet depression or no transverse joints.



CASE B

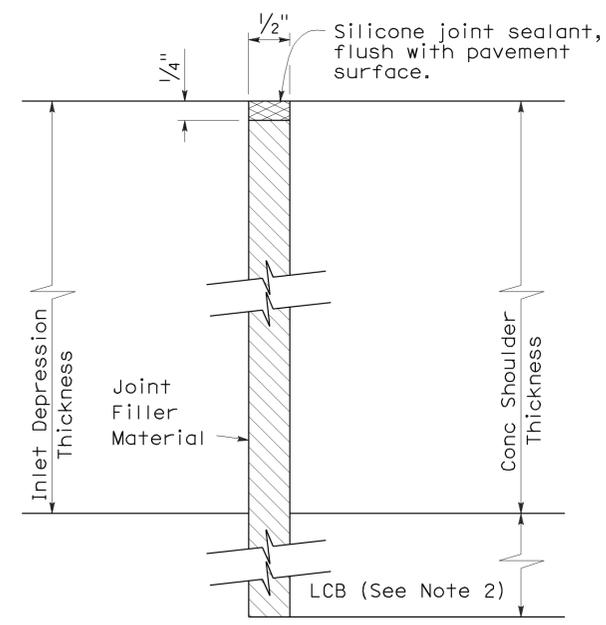
Transverse Joint within 2'-0" of edge of inlet depression.



SECTION A-A
D = Pavement Thickness

TABLE A

DISTANCE X	BARS REQUIRED
2'-0" to 1'-6"	2
1'-6" to 1'-0"	1
1'-0" or less	None



SECTION B-B

ISOLATION JOINT AROUND INLET DEPRESSION

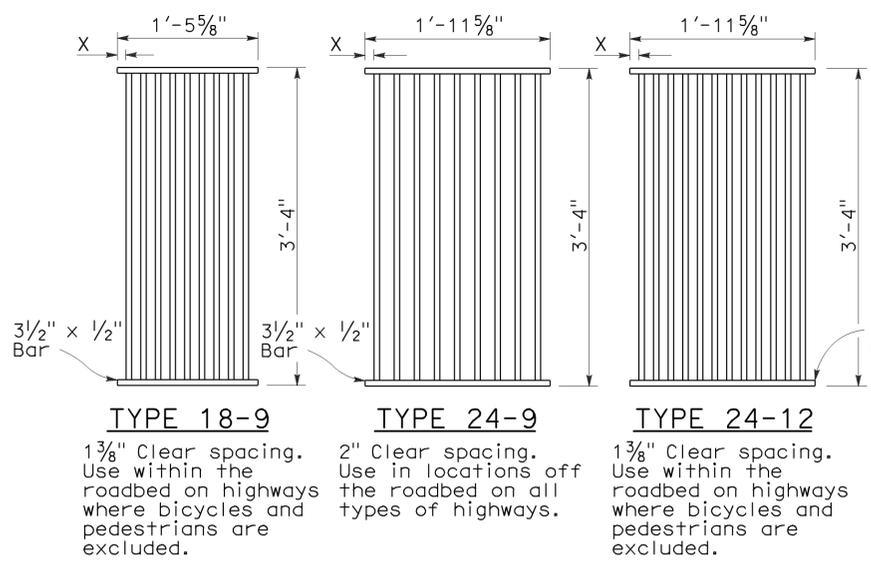
NOTES:

1. Refer to Project Plans for location and type of drainage inlets.
2. Extend joint filler material to bottom of Lean Concrete Base. Where Lean Concrete Base is not used as base material, the joint filler material shall only extend to the bottom of the new concrete pavement.
3. For Jointed Plain Concrete Pavement only. For Continuously Reinforced Concrete Pavement, terminate pavement steel reinforcement 2" clear from all outside edges of isolation joint.
4. For Jointed Plain Concrete Pavement only. For Continuously Reinforced Concrete Pavement, see New Standard Plan NSP P4.

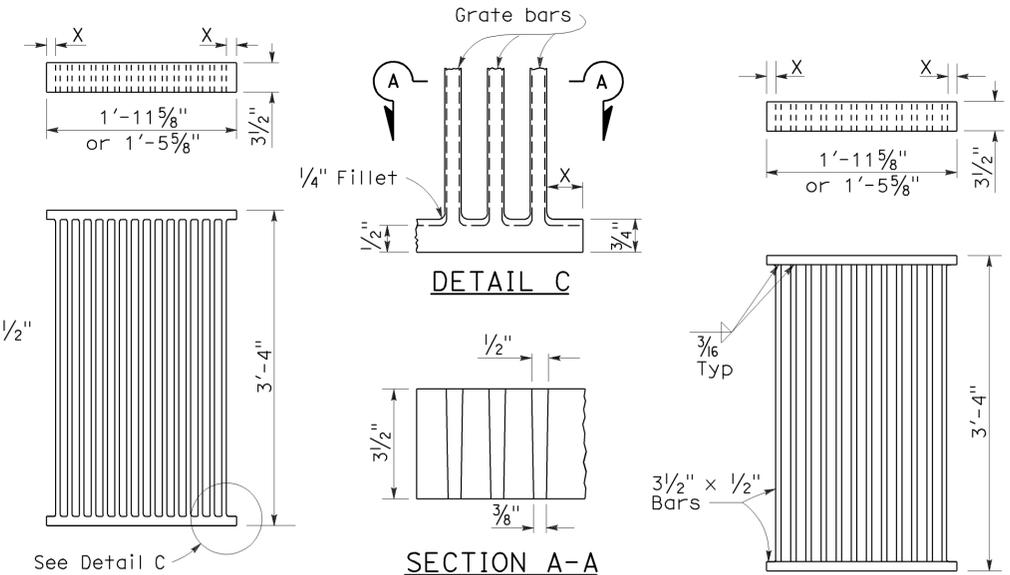
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**CONCRETE PAVEMENT-
 DRAINAGE INLET
 DETAILS No. 2**
 NO SCALE

RSP P46 DATED MAY 15, 2009 SUPERSEDES STANDARD PLAN P46
 DATED MAY 1, 2006 - PAGE 133 OF THE STANDARD PLANS BOOK DATED MAY 2006.

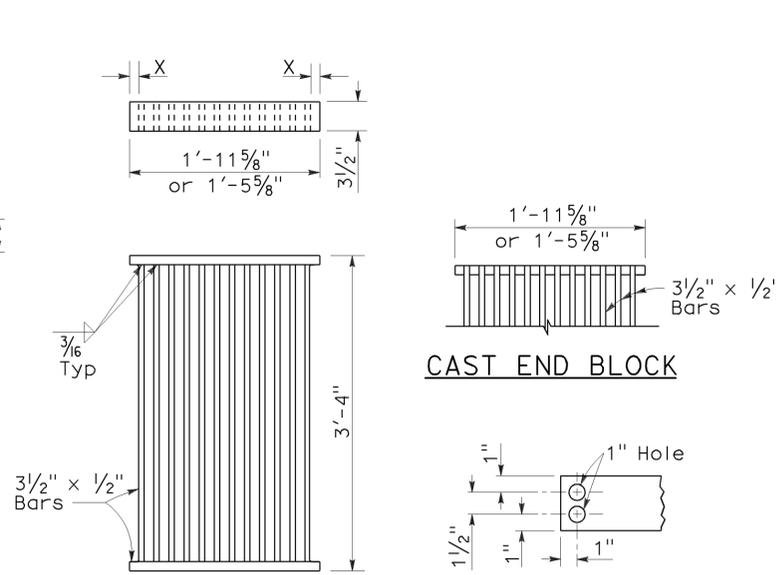
REVISED STANDARD PLAN RSP P46



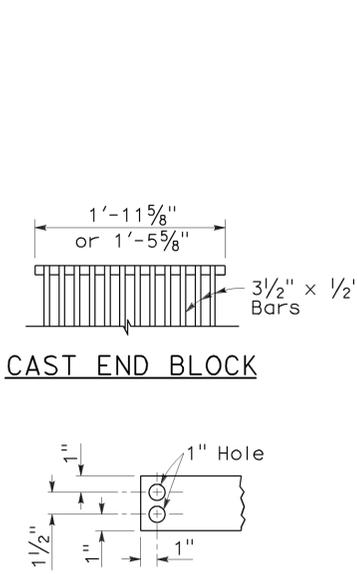
RECTANGULAR GRATE DETAILS
(See table below)



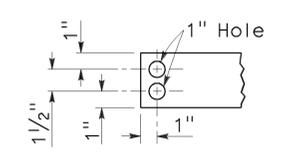
ALTERNATIVE CAST NODULAR IRON GRATE OR CAST STEEL GRATE



ALTERNATIVE WELDED GRATE



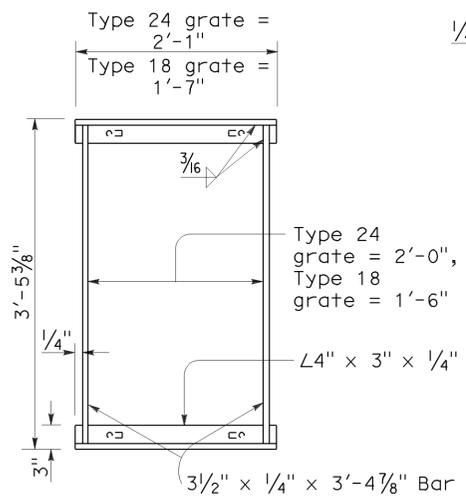
CAST END BLOCK



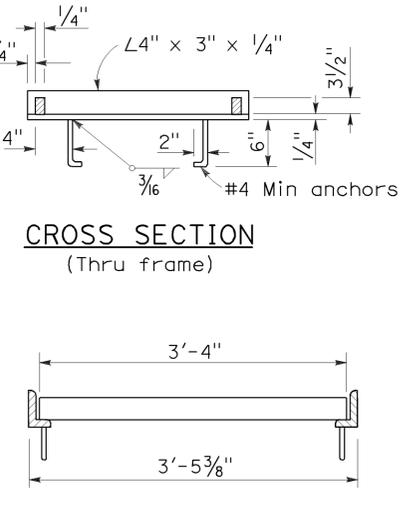
END OF BAR

NOTES:

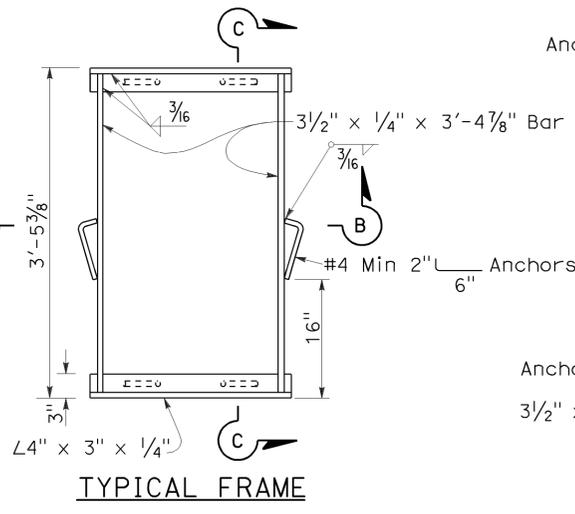
1. Grate type numbers refer to approximate width of grate in inches and number of bars, respectively.
2. Contractor has the option of using cast nodular iron, cast steel, welded, bolted, or cast end block grate.
3. See Special Provisions for requirements pertaining to galvanizing or asphalt dipping of grates and frames.
4. Rounded top of bars optional on all grates.
5. Pipe inlets with a grate shall be placed so that bars parallel direction of principle surface flow.
6. Full penetration butt welds may be substituted for the fillet welds on all anchors.
7. Standard square, hexagon, round or equivalent headed anchors may be substituted for the right angle hooks on the anchors shown on this plan.
8. Grate and frame weights are based on welded grates (weights of face angles, steps, protection bars, etc. are not included).



TYPICAL FRAME

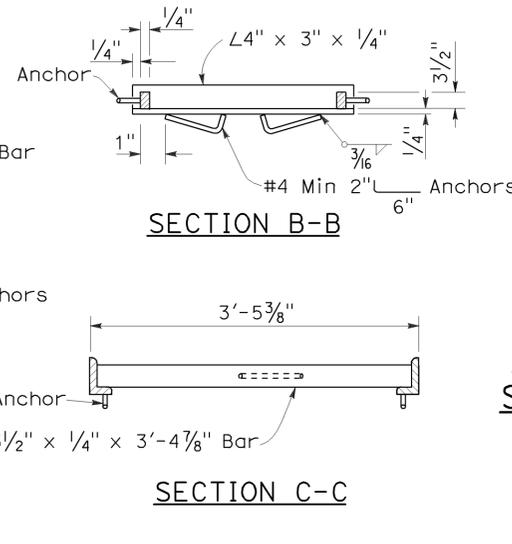


LONGITUDINAL SECTION
(Thru frame and grate)



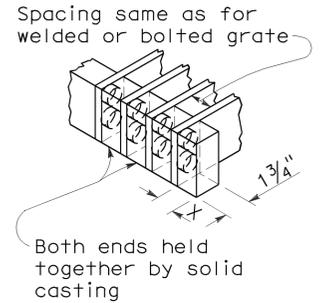
TYPICAL FRAME

ALTERNATIVE ANCHOR FOR RECTANGULAR FRAME
(For details not shown, See Rectangular Frame Details)



SECTION B-B

SECTION C-C



ALTERNATIVE CAST NODULAR IRON OR CAST STEEL END BLOCK GRATE

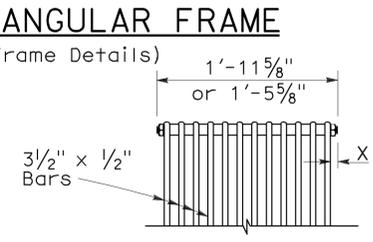
RECTANGULAR FRAME DETAILS
(For all rectangular grates)

GRATE BAR SPACING TABLE

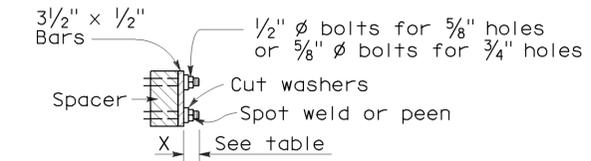
TYPE	NO. OF BARS	CLEAR BAR SPACING	X
18-9	9	1 3/8"	1 1/16"
24-9	9	2"	1 9/16"
24-12	12	1 3/8"	1 1/4"

INLET TYPE	COVER TYPE	WEIGHT LB
OS	PLATE	174
OL-7	PLATE	170
OL-10	PLATE	170
OL-14	PLATE	170
OL-21	PLATE	170
OCPI	PLATE	112
OCPI	PLATE	112
OCPI	REDWOOD	42
OMP	PLATE	177
OMPI	PLATE	177

INLET TYPE	GRATE TYPE	NO. OF GRATES	WEIGHT LB
GDO	24-12	2	634
GOL-7	24-12	1	326
GOL-10	24-12	1	326
G0,G1,G2,G3,G4 (TYPE 24)	24-9	1	263
	24-12	1	326
G4 (TYPE 18),G5,G6	18-9	1	249
GT1	18-9	2	498
GT2	18-9	2	498
GT3	24-12	2	652
GT4	24-12	2	652
TRASH RACK			22

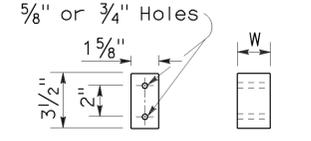


BOLTED END BLOCK

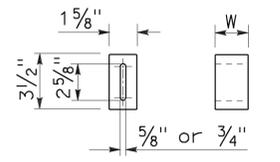


BOLTING DETAIL

ALTERNATIVE BOLTED GRATE



BAR SPACER



ALTERNATIVE SPACER
W = 1 3/8" or 2"

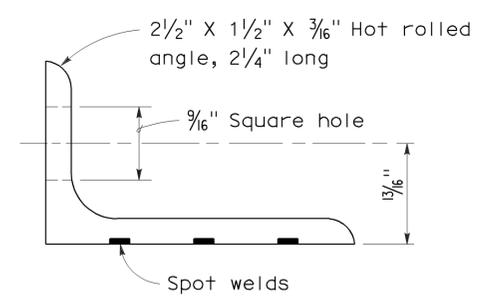
BASIS FOR MISC IRON & STEEL FINAL PAY WEIGHTS FOR DRAINAGE INLETS

(See General Notes, No 8)

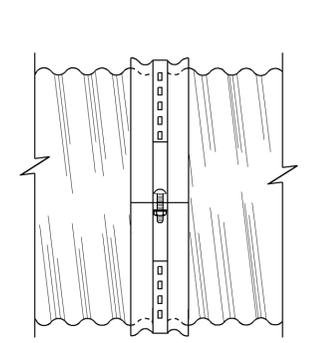
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	10	12.0/19.8	287	319

Raymond Don Tsztoo
 REGISTERED CIVIL ENGINEER
 June 6, 2008
 PLANS APPROVAL DATE
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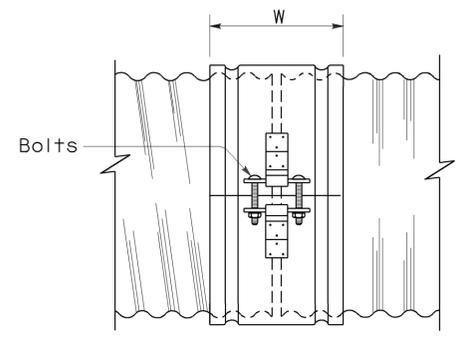
To accompany plans dated 8-3-09



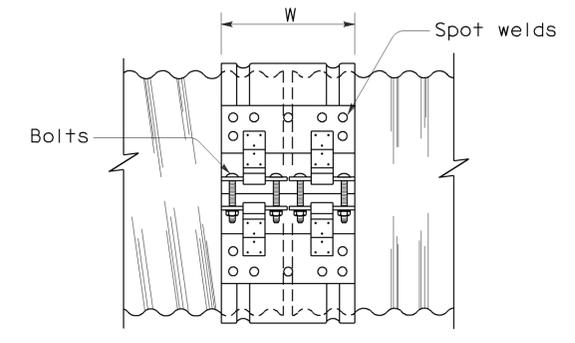
ANGLE



SIDE VIEW ANGLE



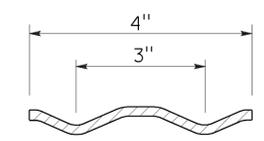
SIDE VIEW SINGLE BAR AND STRAP



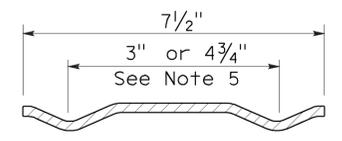
SIDE VIEW DOUBLE BAR AND STRAP

NOTES:

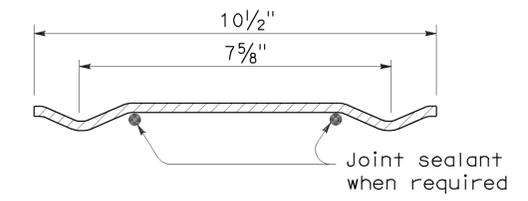
1. All ferrous metal coupling band connection hardware shall be galvanized or electroplated in accordance with the Standard Specifications.
2. Dimensions and thicknesses shown are minimum.
3. Spot welds shall develop minimum required strength of strap.
4. Fillet welds of equivalent strength may be substituted for spot welds or rivets.
5. Dimension depends upon whether end condition is lips up or lips down.



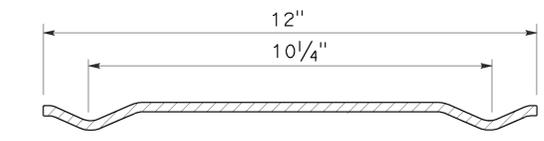
SECTION H-4 HUGGER BAND



SECTION H-7 HUGGER BAND



SECTION H-10 HUGGER BAND



SECTION H-12 HUGGER BAND

HUGGER COUPLING BANDS

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**CORRUGATED METAL PIPE
 COUPLING DETAILS No. 4
 HUGGER COUPLING BANDS**

NO SCALE

RSP D97D DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN D97D
 DATED MAY 1, 2006 - PAGE 186 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP D97D

2006 REVISED STANDARD PLAN RSP D97D

ANNULAR AND HELICAL PROFILE

COUPLING TYPE	PIPE CORRUGATION	PIPE SIZE	W OR A	PIPE WALL THICKNESS				BAR AND STRAP (CSP ONLY)				ANGLE								
				CSP		CAP		STRAP THICKNESS	BOLTS Dia	BAR Dia	BAR YIELD STRENGTH	DIMENSIONS		BOLTS (No.- Dia)		RIVETS ANGLE TO BAND		SPOT WELDS ANGLE TO BAND		
				CSP	CAP	CSP	CAP					CSP	CAP	CSP	CAP	CSP	CAP	CSP		
TWO PIECE INTEGRAL FLANGE	1 1/2' x 1/4"	6"-10"	7"	0.052"-0.079"	0.048"-0.060"	0.052"	0.060"								2-3/8"	2-3/8"				
				12"-18"	7"	0.052"-0.079"										2-1/2"				
				2 2/3" x 1/2"	12"-24"	7"	0.052"-0.079"	0.060"-0.105"	0.064"	0.060"							2-1/2"	2-1/2"		
UNIVERSAL	2 2/3" x 1/2"	THROUGH 36"	12"	0.052"-0.138"	0.060"-0.135"	0.052"	0.060"						2" x 2" x 3/16"	2" x 2" x 3/16"	3-1/2"	3-1/2"	3-3/8"	3-3/8"	3-1/2"	
		42"-60"	12"	0.052"-0.168"	0.075"-0.164"	0.052"	0.060"							2" x 2" x 3/16"	2" x 2" x 3/16"	3-1/2"	3-1/2"	3-3/8"	3-3/8"	5-1/2"
		THROUGH 72"	12"	0.052"-0.168"	0.164"	0.052"	0.105"	0.079"	1/2"	7/8"	32 ksi	2" x 2" x 3/16"	2" x 2" x 3/16"	3-1/2"	3-1/2"	3-3/8"	3-3/8"	5-1/2"		
		78"-84"	16 1/4"	0.168"		0.079"		DOUBLE 0.079"	1/2"	7/8"	32 ksi	2" x 2" x 3/16"	2" x 2" x 3/16"	3-1/2"	3-1/2"	3-3/8"	3-3/8"	5-1/2"		
ANNULAR	2 2/3" x 1/2"	THROUGH 36"	7"	0.064"-0.138"	0.060"-0.135"	0.052"	0.060"	0.079"	1/2"	7/8"	32 ksi	2" x 2" x 3/16"	2" x 2" x 3/16"	2-1/2"	2-1/2"	3-3/8"	3-3/8"	3-1/2"		
		42"-72"	12"	0.064"-0.168"	0.075"-0.164"	0.052"	0.105"	0.079"	1/2"	7/8"	32 ksi	2" x 2" x 3/16"	2" x 2" x 3/16"	3-1/2"	3-1/2"	3-3/8"	3-3/8"	5-1/2"		
		78"-84"	12"	0.168"		0.079"		0.109"	1/2"	7/8"	45 ksi	2" x 2" x 3/16"			3-1/2"		3-3/8"	5-1/2"		
	3" x 1"	48"-90"	14"	0.064"-0.109"		0.052"		0.079"	1/2"	7/8"	32 ksi	2" x 2" x 3/16"			3-1/2"		3-3/8"	5-1/2"		
		96"-120"	14"	0.079"-0.109"		0.052"		0.109"	1/2"	7/8"	45 ksi	2" x 2" x 3/16"			3-1/2"		4-3/8"			
		42"-108"	14"		0.060"-0.135"		0.060"					2" x 2" x 3/16"		3-1/2"		3-3/8"				
HELICAL	2 2/3" x 1/2"	THROUGH 36"	12"	0.052"-0.138"	0.060"-0.135"	0.052"	0.060"	0.079"	1/2"	7/8"	32 ksi	2" x 2" x 3/16"	2" x 2" x 3/16"	3-1/2"	3-1/2"	3-3/8"	3-3/8"	3-1/2"		
		42"-72"	12"	0.052"-0.168"	0.075"-0.164"	0.052"	0.060"	0.079"	1/2"	7/8"	32 ksi	2" x 2" x 3/16"	2" x 2" x 3/16"	3-1/2"	3-1/2"	3-3/8"	3-3/8"	5-1/2"		
		78"-84"	12"	0.168"		0.079"		0.109"	1/2"	7/8"	45 ksi	2" x 2" x 3/16"			3-1/2"		3-3/8"	5-1/2"		
	3" x 1"	48"-90"	14"	0.064"-0.109"		0.052"		0.079"	1/2"	7/8"	32 ksi	2" x 2" x 3/16"			3-1/2"		3-3/8"	5-1/2"		
		96"-120"	14"	0.079"-0.109"		0.052"		0.109"	1/2"	7/8"	45 ksi	2" x 2" x 3/16"			3-1/2"		4-3/8"			
		42"-108"	14"		0.060"-0.135"		0.060"					2" x 2" x 3/16"		3-1/2"		3-3/8"				
HUGGER	2 2/3" x 1/2"	REROLLED END	12"-54"	4"	0.052"-0.109"		0.052"						2 1/2" x 1 1/2" x 3/16"	2 1/2" x 1 1/2" x 3/16"	1-1/2"			3-1/2"		
			60"-66"	4"	0.109"		0.064"							2 1/2" x 1 1/2" x 3/16"	2 1/2" x 1 1/2" x 3/16"	1-1/2"		3-1/2"		
			36"-48"	4"	0.138"		0.064"							2 1/2" x 1 1/2" x 3/16"	2 1/2" x 1 1/2" x 3/16"	1-1/2"		3-1/2"		
			THROUGH 72"	10 1/2"	0.052"-0.168"		0.052"		0.079"	1/2"	7/8"	32 ksi								
			78"-84"	10 1/2"	0.168"		0.079"		0.109"	1/2"	7/8"	45 ksi								
	3" x 1"	REROLLED END	48"-90"	10 1/2"	0.064"-0.109"		0.052"		0.079"	1/2"	7/8"	32 ksi								
			96"-120"	10 1/2"	0.079"-0.109"		0.052"		0.109"	1/2"	7/8"	45 ksi								
			48"-66"	7 1/2"	0.064"-0.109"		0.064"		0.079"	1/2"	7/8"	32 ksi	2 1/2" x 1 1/2" x 3/16"	2 1/2" x 1 1/2" x 3/16"	1-1/2"			3-1/2"		
			72"-90"	7 1/2"	0.064"-0.079"		0.064"		0.079"	1/2"	7/8"	32 ksi	2 1/2" x 1 1/2" x 3/16"	2 1/2" x 1 1/2" x 3/16"	1-1/2"			3-1/2"		
			48"-90"	7 1/2"	0.064"-0.138"		0.064"		0.079"	1/2"	7/8"	32 ksi								
5" x 1"	REROLLED END	48"-120"	12" SEE	0.064"-0.109"		0.064"		0.079"	1/2"	7/8"	32 ksi									
		48"-84"	12" NOTE	0.138"		0.064"		0.079"	1/2"	7/8"	32 ksi									
		90"-120"	12" 11	0.138"		0.064"		DOUBLE 0.079"	1/2"	7/8"	32 ksi									

SPIRAL RIB PROFILE

COUPLING TYPE	PIPE CORRUGATION	PIPE SIZE	W	PIPE WALL THICKNESS				BAR AND STRAP (SSRP ONLY)				ANGLE						
				SSRP		ASRP		STRAP THICKNESS	BOLTS Dia	BAR Dia	BAR YIELD STRENGTH	DIMENSIONS		BOLTS (No.- Dia)		RIVETS ANGLE TO BAND		SPOT WELDS ANGLE TO BAND
				SSRP	ASRP	SSRP	ASRP					SSRP	ASRP	SSRP	ASRP	SSRP	ASRP	SSRP
ANNULAR	2 2/3" x 1/2" * REROLLED END	24"-36"	12"	0.064"-0.109"	0.060"-0.105"	0.052"	0.060"	0.079"	1/2"	7/8"	32 ksi	2" x 2" x 3/16"	2" x 2" x 3/16"	3-1/2"	3-1/2"	3-3/8"	3-3/8"	5-1/2"
		42"-60"	12"	0.064"-0.109"	0.075"-0.105"	0.052"	0.105"	0.079"	1/2"	7/8"	32 ksi	2" x 2" x 3/16"	2" x 2" x 3/16"	3-1/2"	3-1/2"	3-3/8"	3-3/8"	5-1/2"
		66"-72"	12"	0.064"-0.109"		0.052"		0.079"	1/2"	7/8"	32 ksi	2" x 2" x 3/16"	2" x 2" x 3/16"	3-1/2"	3-1/2"	3-3/8"	3-3/8"	5-1/2"
		78"-114"	12"	0.079"-0.109"		0.079"		0.109"	1/2"	7/8"	45 ksi	2" x 2" x 3/16"	2" x 2" x 3/16"	3-1/2"	3-1/2"	3-3/8"	3-3/8"	5-1/2"
HUGGER	2 2/3" x 1/2" * REROLLED END	24"-72"	10 1/2"	0.064"-0.109"		0.052"		0.079"	1/2"	7/8"	32 ksi							
		78"-84"	10 1/2"	0.109"		0.079"		0.109"	1/2"	7/8"	45 ksi							

* See Note 14.

14. All profiles of Spiral Rib Pipe (3/4" x 3/4" ribs at 7 1/2" pitch and 3/4" x 1" ribs at 11 1/2" pitch in both steel and aluminum and 3/4" x 1" ribs at 8 1/2" pitch in steel only) shall be manufactured with rerolled ends. Corrugation profile of the rerolled ends shall be 2 2/3" x 1/2" annual corrugations with a minimum of two full corrugations at each end.

- NOTES:** To accompany plans dated 8-3-09
- All ferrous metal coupling band connection hardware shall be galvanized or electroplated in accordance with the Standard Specifications.
 - For helically corrugated coupling bands, the connection angles may be oriented parallel to the pipe axis, provided connecting holes are slotted lengthwise sufficiently to allow adjustment for the helix angle.
 - Tension strap may be connected to band with either spot welds or fillet welds that develop minimum required strength of strap.
 - Use 1/4" gage line dimension on attached angle leg for rivets and spot welds.
 - Band thickness shall not be less than:
 - 3 standard thicknesses lighter than the thickness of the pipe for Corrugated Steel Pipe.
 - 2 standard thicknesses lighter than the thickness of the pipe and in no case lighter than 0.060" for Corrugated Aluminum Pipe.
 - Dimensions, thicknesses and strengths shown are minimum.
 - For pipe arches use same width band as for round pipe of equal periphery.
 - Fillet welds of equivalent strength may be substituted for spot welds or rivets.
 - Spot welds shall develop minimum required strength of strap.
 - Pipe with rerolled ends having at least two 2 2/3" x 1/2" annular corrugations at each end with or without an upturned flange may be connected with any of the annular coupling bands shown for pipe of the same diameter and wall thickness and having 2 2/3" x 1/2" corrugations.
 - In the case of H-12 huggerbands, two piece bands are required for diameters through 96" and three piece bands are required for diameters 102" through 120".
 - Two piece bands are required for pipes greater than 42" diameter.
 - The 2 1/4" x 2" x 0.109" thick galvanized die-formed angle connector may be used in lieu of the 2" x 2" x 3/16" angle connector for standard joints only on pipes through 72" diameter.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**CORRUGATED METAL PIPE
COUPLING DETAILS No. 5
STANDARD JOINT**
NO SCALE

RSP D97E DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN D97E
DATED MAY 1, 2006 - PAGE 187 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP D97E

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	10	12.0/19.8	288	319

Raymond Don Tsztoo
REGISTERED CIVIL ENGINEER

June 6, 2008
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.

2006 REVISED STANDARD PLAN RSP D97E

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	10	12.0/19.8	289	319

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.

STATE OF CALIFORNIA
5-14-09
2-28-11
RENEWED DATE

To accompany plans dated 8-3-09

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

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**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
08	SBd	10	12.0/19.8	290	319

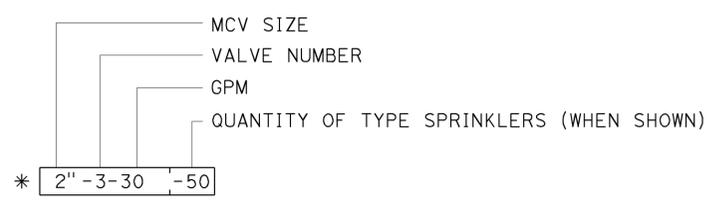
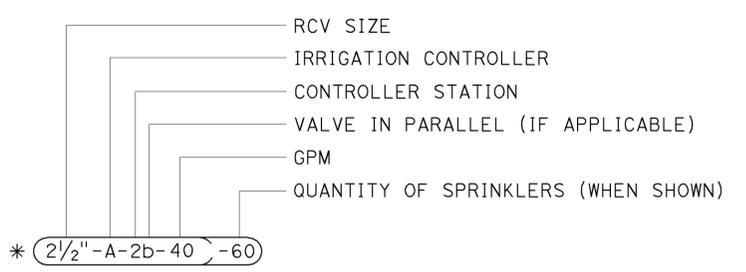
Gregory A. Balzer
 LICENSED LANDSCAPE ARCHITECT
 June 5, 2009
 PLANS APPROVAL DATE
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 8-3-09

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

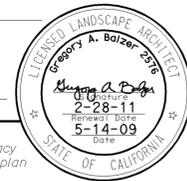
RSP H2 DATED JUNE 5, 2009 SUPERSEDES RSP H2 DATED MARCH 7, 2008 AND STANDARD PLAN H2 DATED MAY 1, 2006 - PAGE 202 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP H2

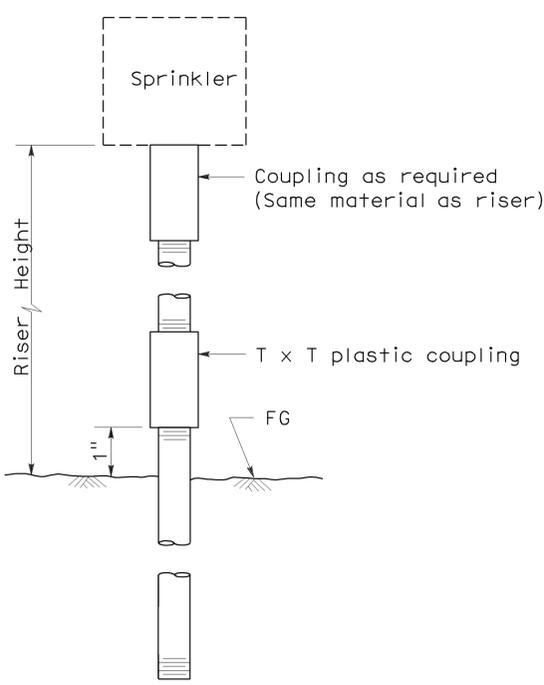
2006 REVISED STANDARD PLAN RSP H2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	10	12.0/19.8	291	319

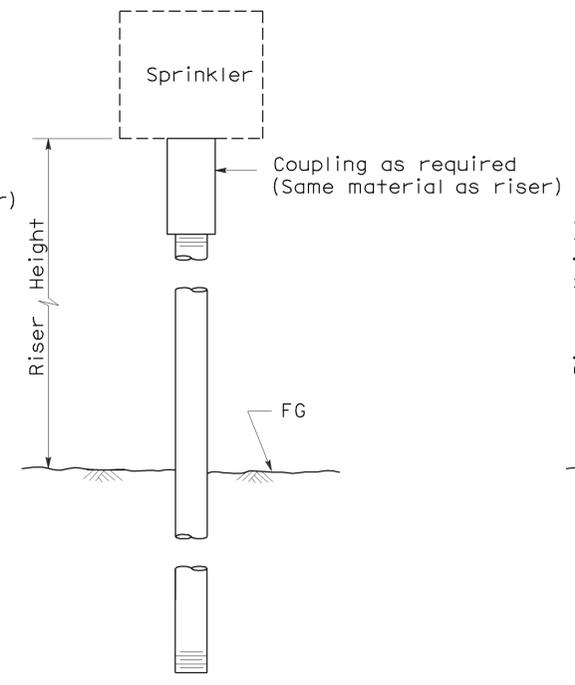
Gregory A. Balzer
 LICENSED LANDSCAPE ARCHITECT
 June 5, 2009
 PLANS APPROVAL DATE
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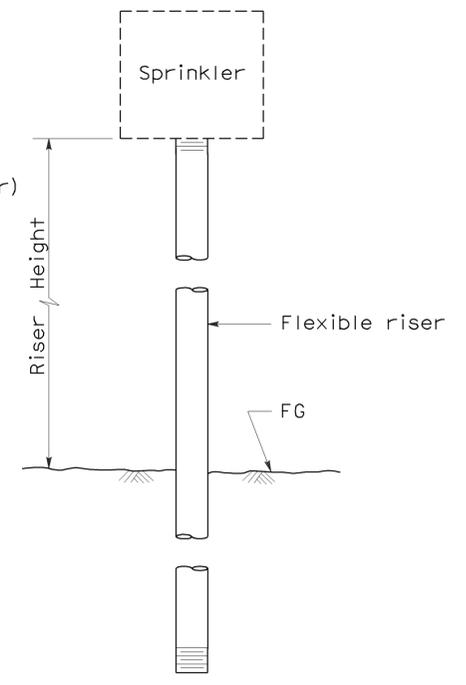
To accompany plans dated 8-3-09



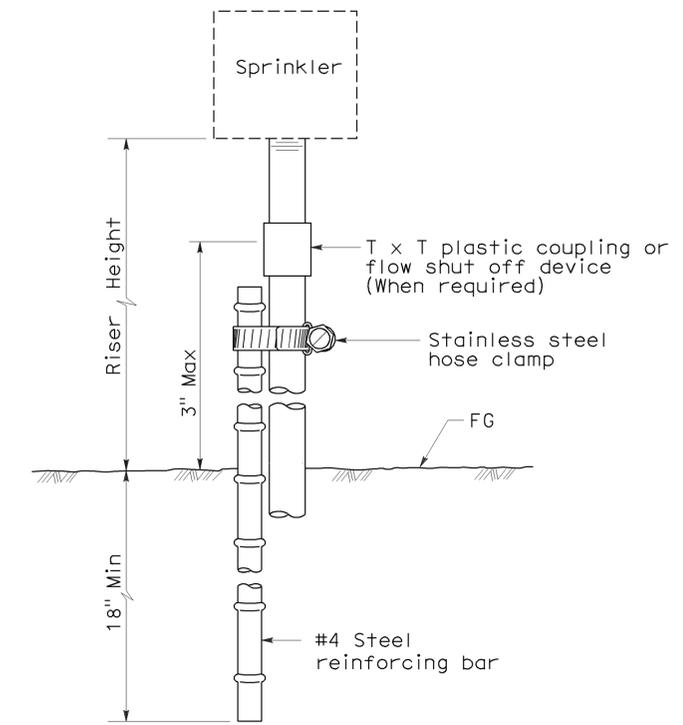
ELEVATION
RISER TYPE I



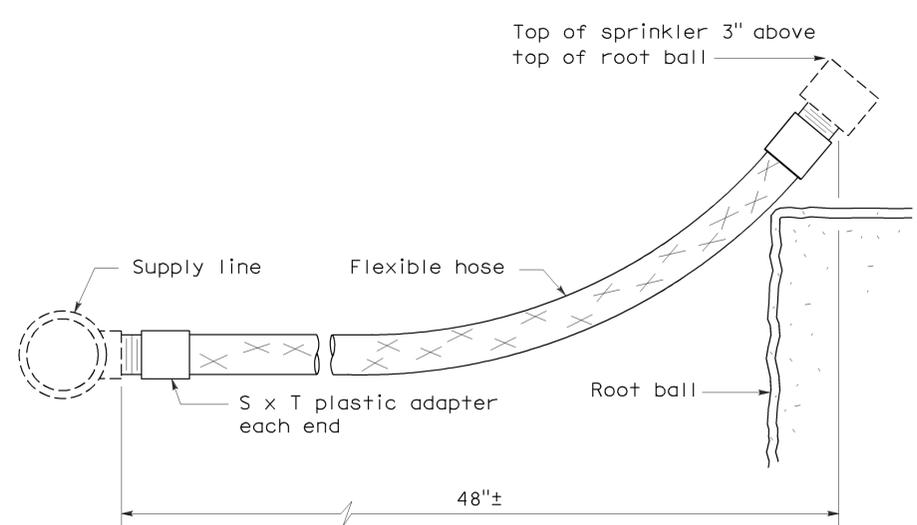
ELEVATION
RISER TYPE II



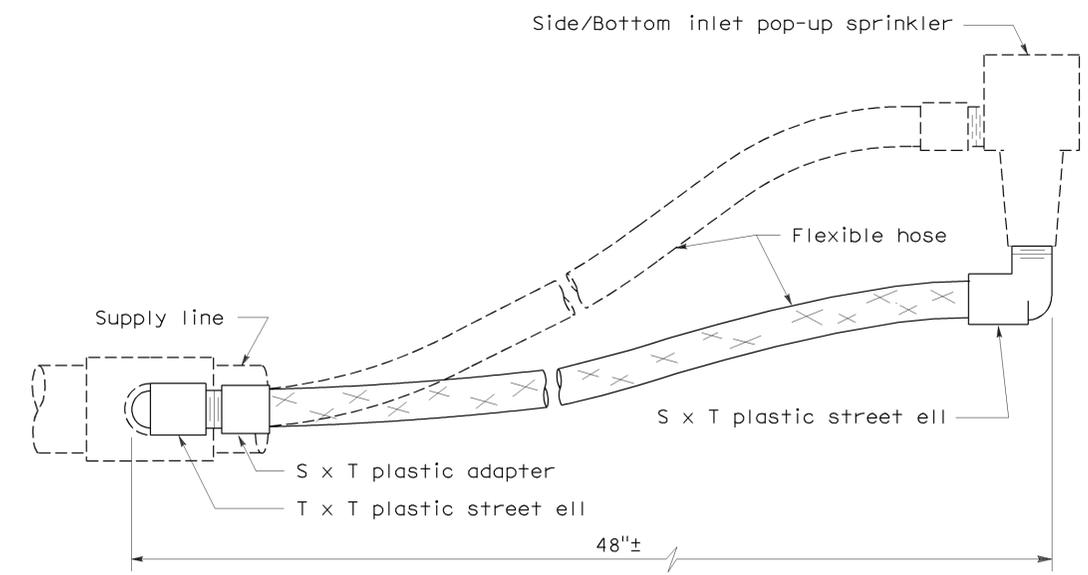
ELEVATION
RISER TYPE III



ELEVATION
RISER TYPE IV



ELEVATION
RISER TYPE V



ELEVATION
RISER TYPE VI

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

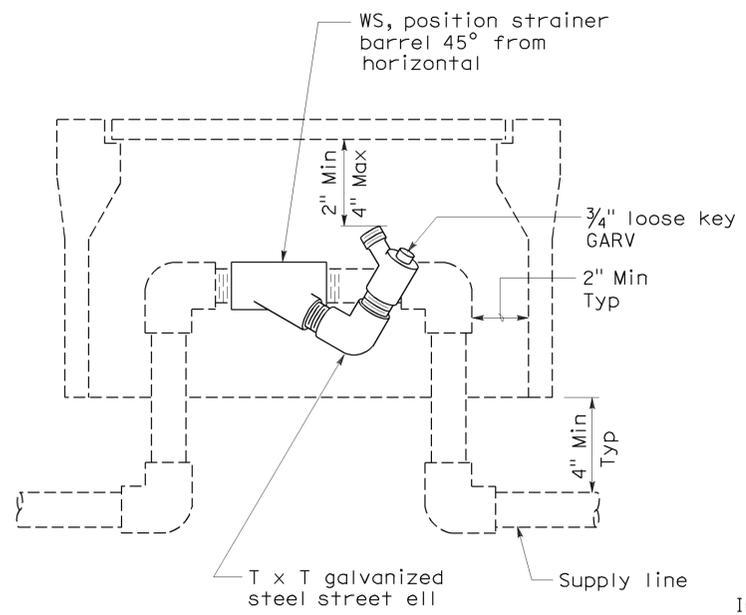
RSP H5 DATED JUNE 5, 2009 SUPERSEDES STANDARD PLAN H5
DATED MAY 1, 2006 - PAGE 205 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP H5

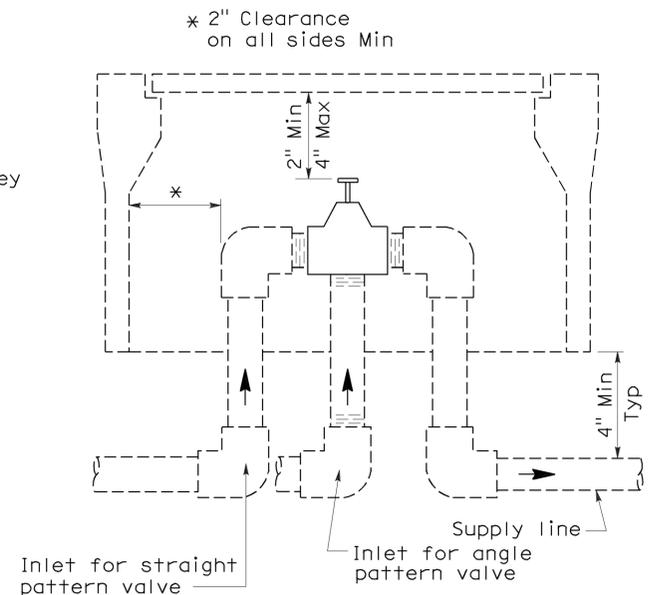
2006 REVISED STANDARD PLAN RSP H5

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	10	12.0/19.8	292	319

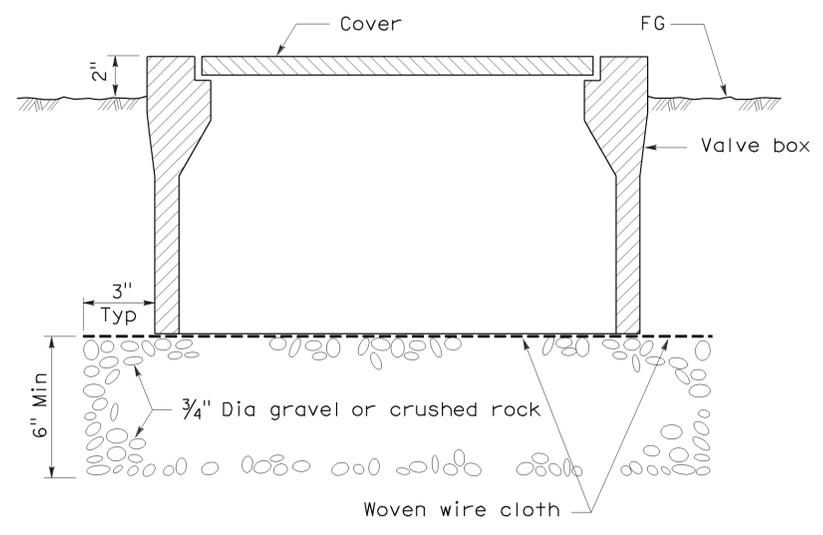
Gregory A. Balzer
 LICENSED LANDSCAPE ARCHITECT
 License No. 2376
 State of California
 June 5, 2009
 PLANS APPROVAL DATE
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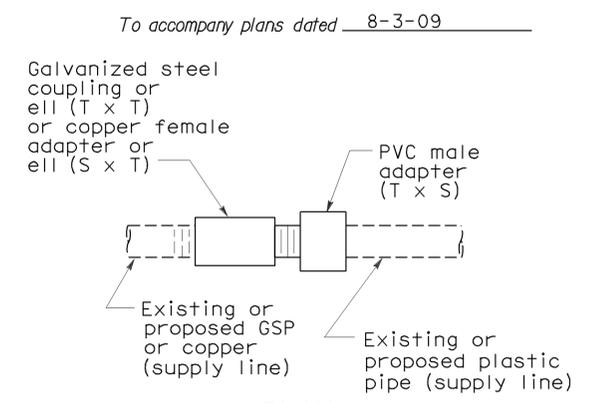
ELEVATION
WYE STRAINER



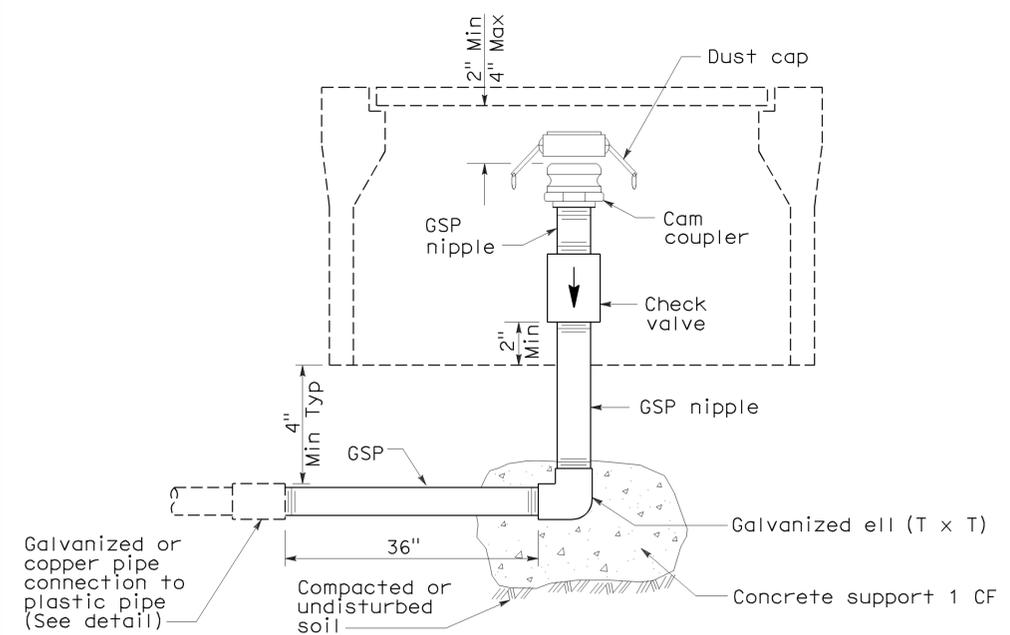
ELEVATION
VALVE



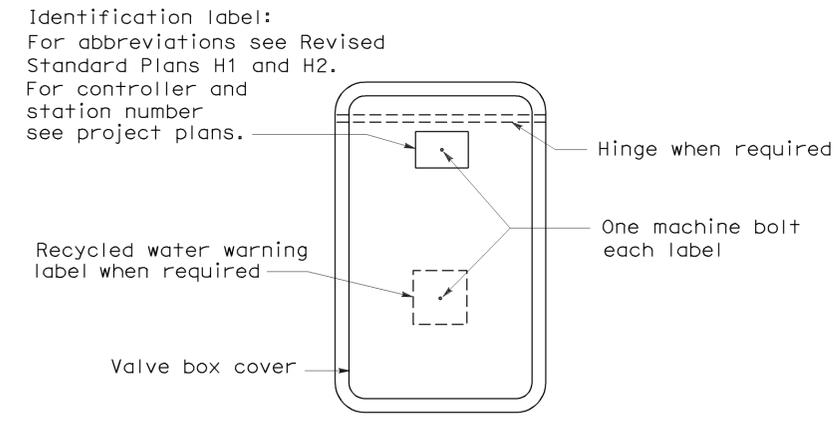
SECTION
VALVE BOX



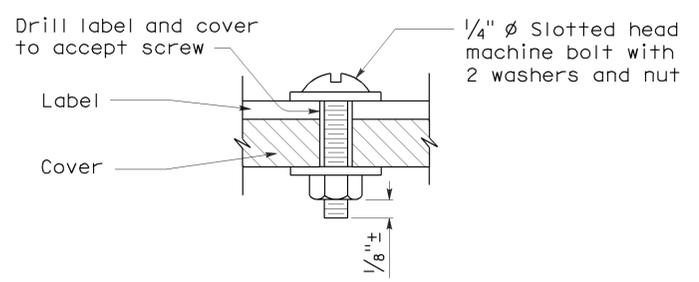
PLAN
GALVANIZED OR COPPER PIPE CONNECTION TO PLASTIC PIPE



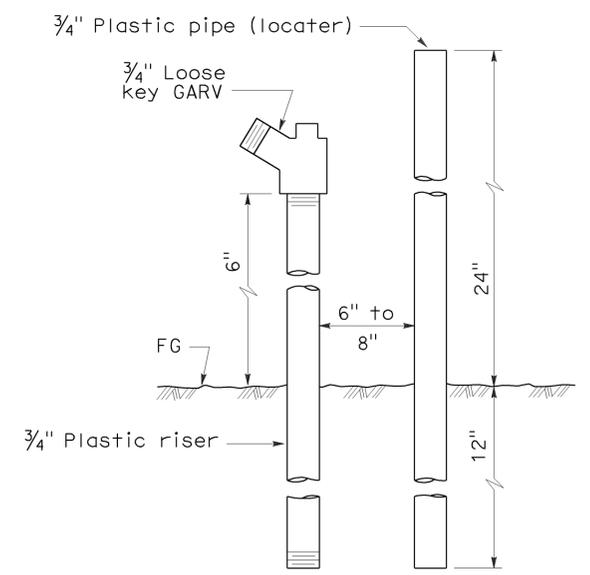
ELEVATION
CAM COUPLER ASSEMBLY



PLAN
VALVE BOX IDENTIFICATION



SECTION
VALVE BOX IDENTIFICATION



ELEVATION
FLUSH VALVE

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PLANTING AND IRRIGATION DETAILS

NO SCALE

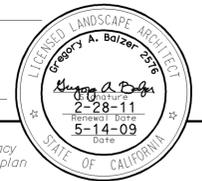
RSP H7 DATED JUNE 5, 2009 SUPERSEDES STANDARD PLAN H7
DATED MAY 1, 2006 - PAGE 207 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP H7

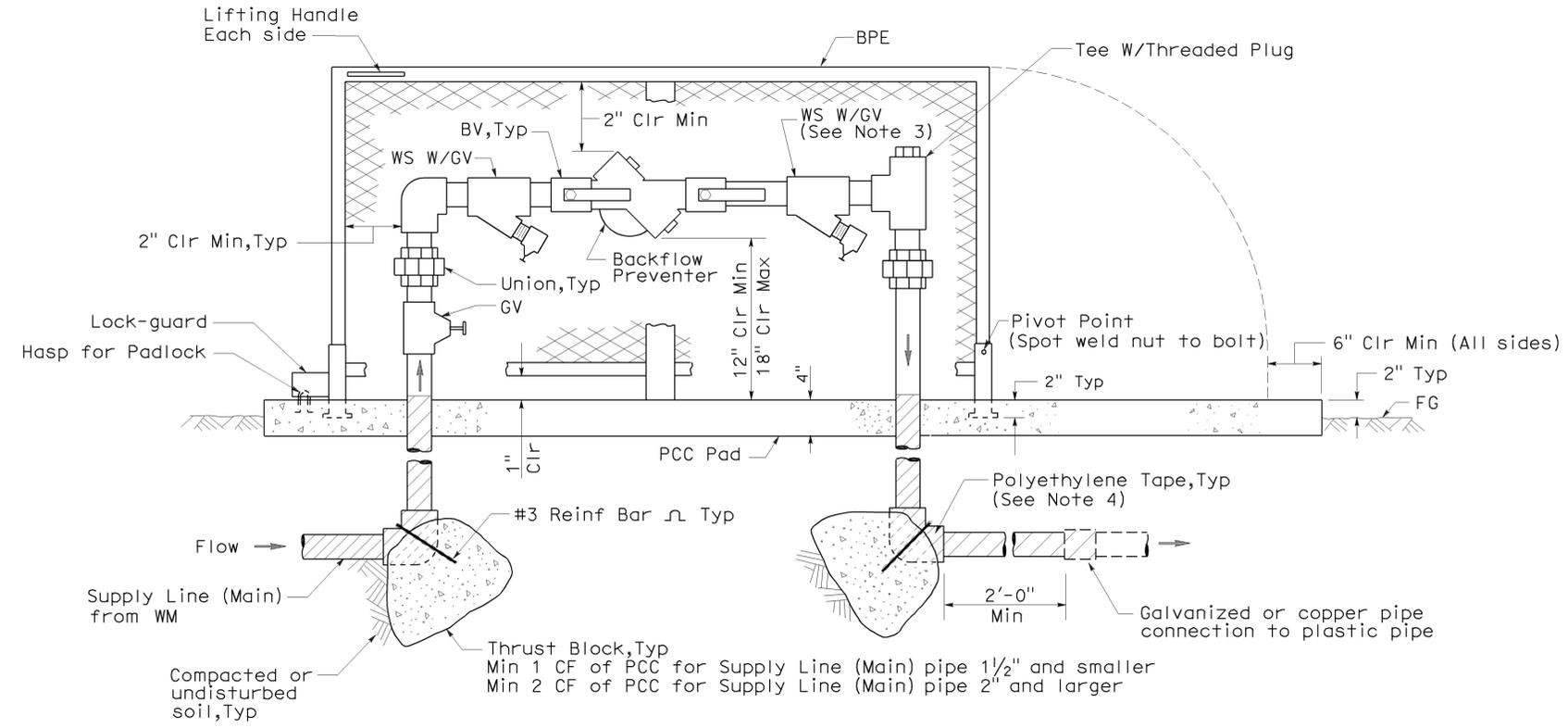
2006 REVISED STANDARD PLAN RSP H7

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	10	12.0/19.8	293	319

Gregory A. Balzer
 LICENSED LANDSCAPE ARCHITECT
 June 5, 2009
 PLANS APPROVAL DATE
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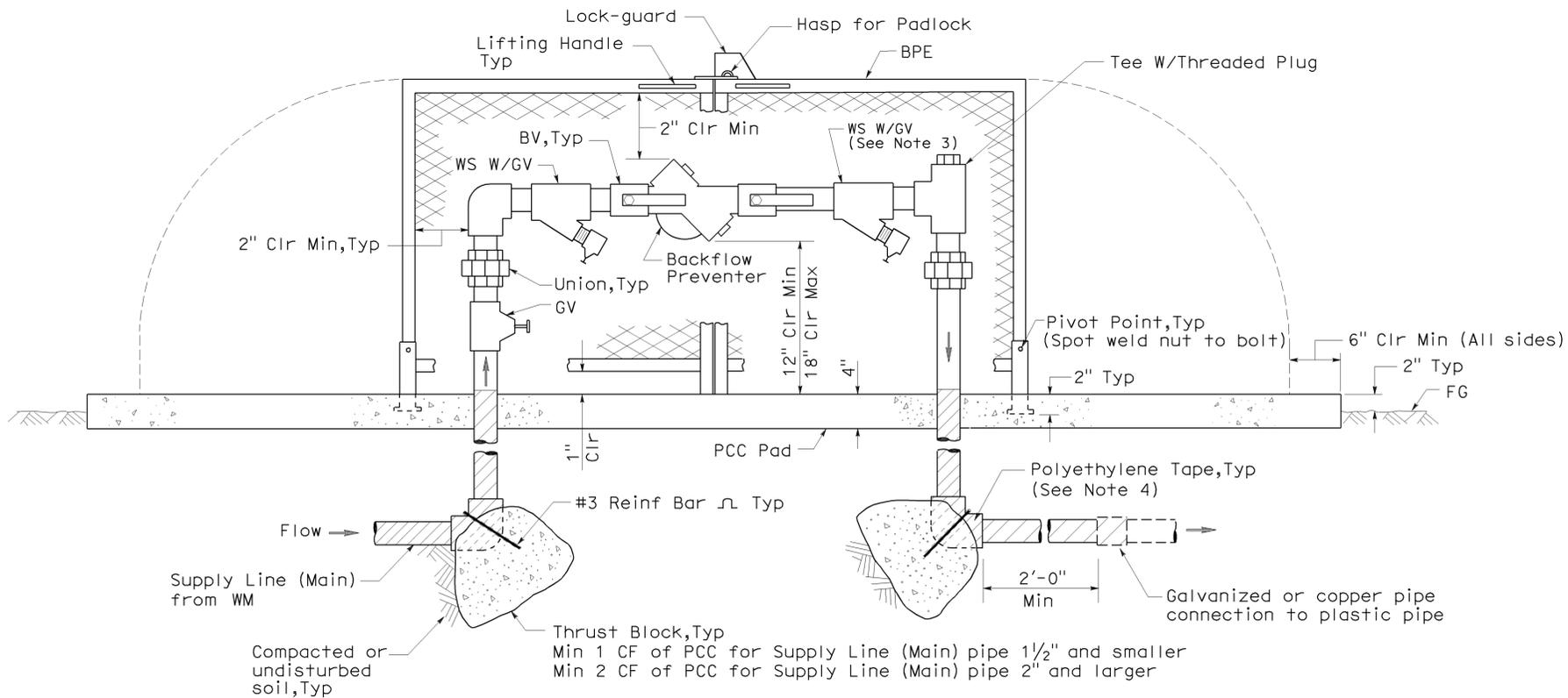
To accompany plans dated 8-3-09



ELEVATION
BACKFLOW PREVENTER ASSEMBLY IN ENCLOSURE (ONE PIECE)

NOTES:

1. Wye strainer and fittings must be the same size as the backflow preventer shown on the plans.
2. Backflow preventer assembly manifold pipe must be the same pipe as the supply line (main) pipe to be installed from the water meter to the backflow preventer assembly.
3. Wye strainer location shown downstream of the backflow preventer is for District 11 projects only.
4. All metal in contact with soil and Portland Cement Concrete must be polyethylene wrapped using 2" wide plastic backed adhesive tape 20 mil thick with 1/2" overlap.



ELEVATION
BACKFLOW PREVENTER ASSEMBLY IN ENCLOSURE (TWO PIECE)

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

RSP H8 DATED JUNE 5, 2009 SUPERSEDES STANDARD PLAN H8
 DATED MAY 1, 2006 - PAGE 208 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP H8

2006 REVISED STANDARD PLAN RSP H8

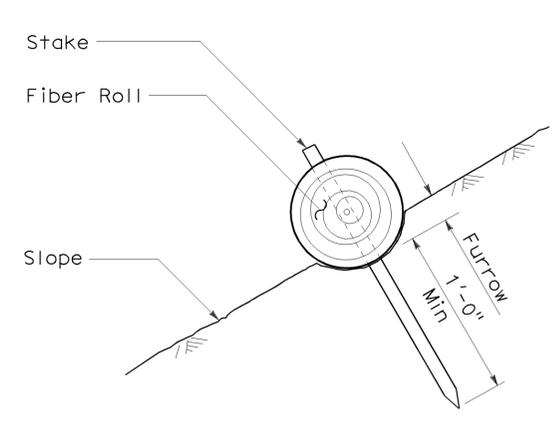
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	10	12.0/19.8	294	319

Gregory A. Balzer
 LICENSED LANDSCAPE ARCHITECT
 April 3, 2009
 PLANS APPROVAL DATE
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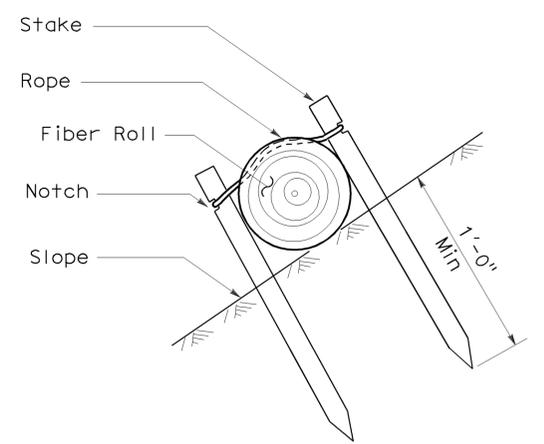
To accompany plans dated 8-3-09

NOTES:

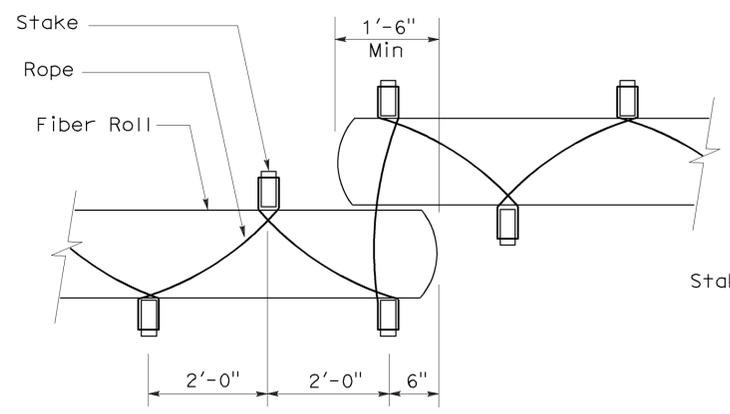
1. Fiber roll spacing varies depending upon slope inclination.
2. Installations shown in the perspectives are for slope inclination of 10:1 and steeper.



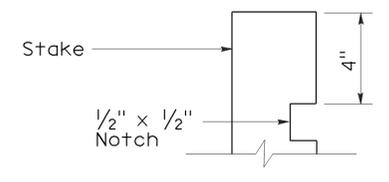
SECTION
FIBER ROLL
(TYPE 1)



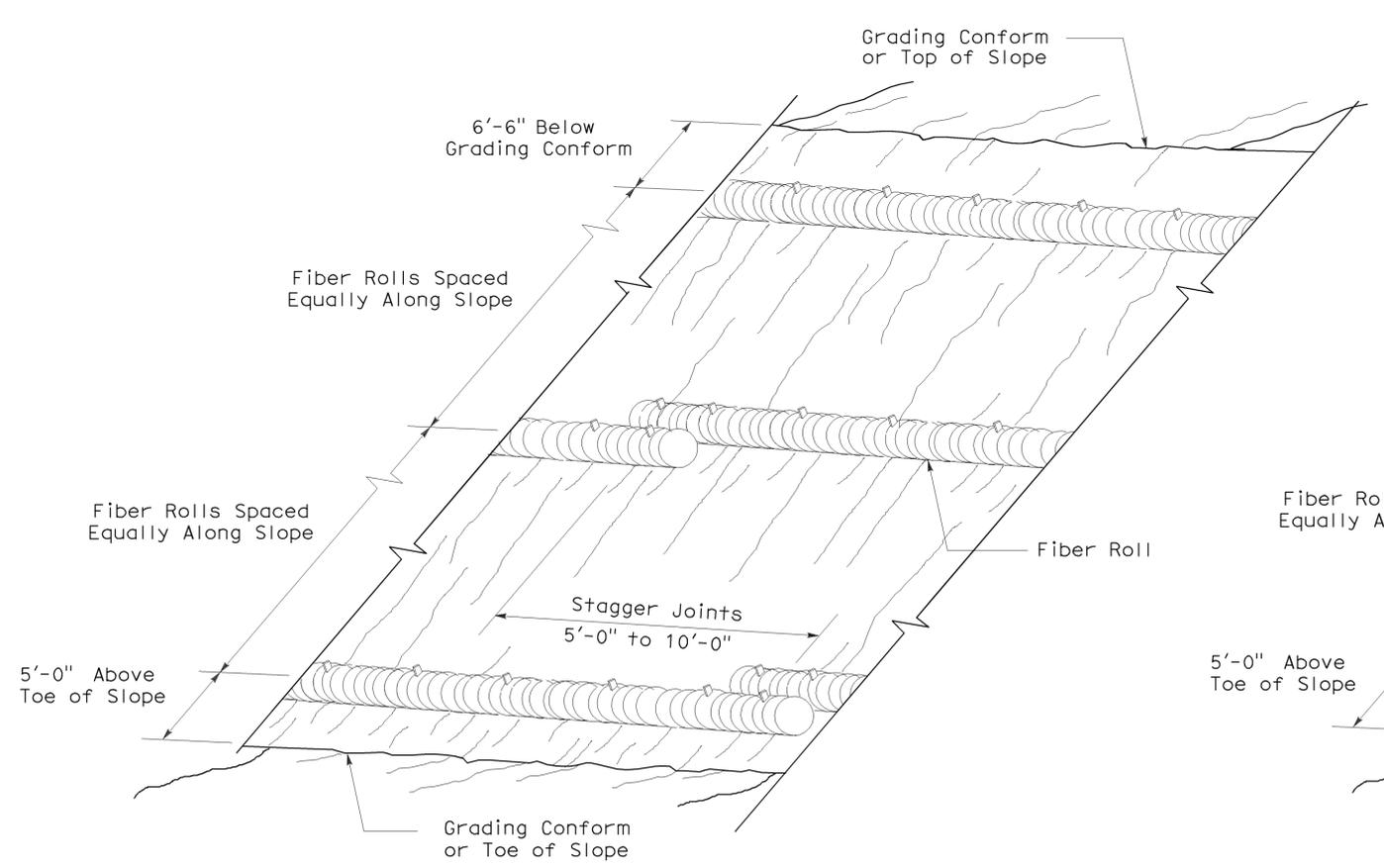
SECTION



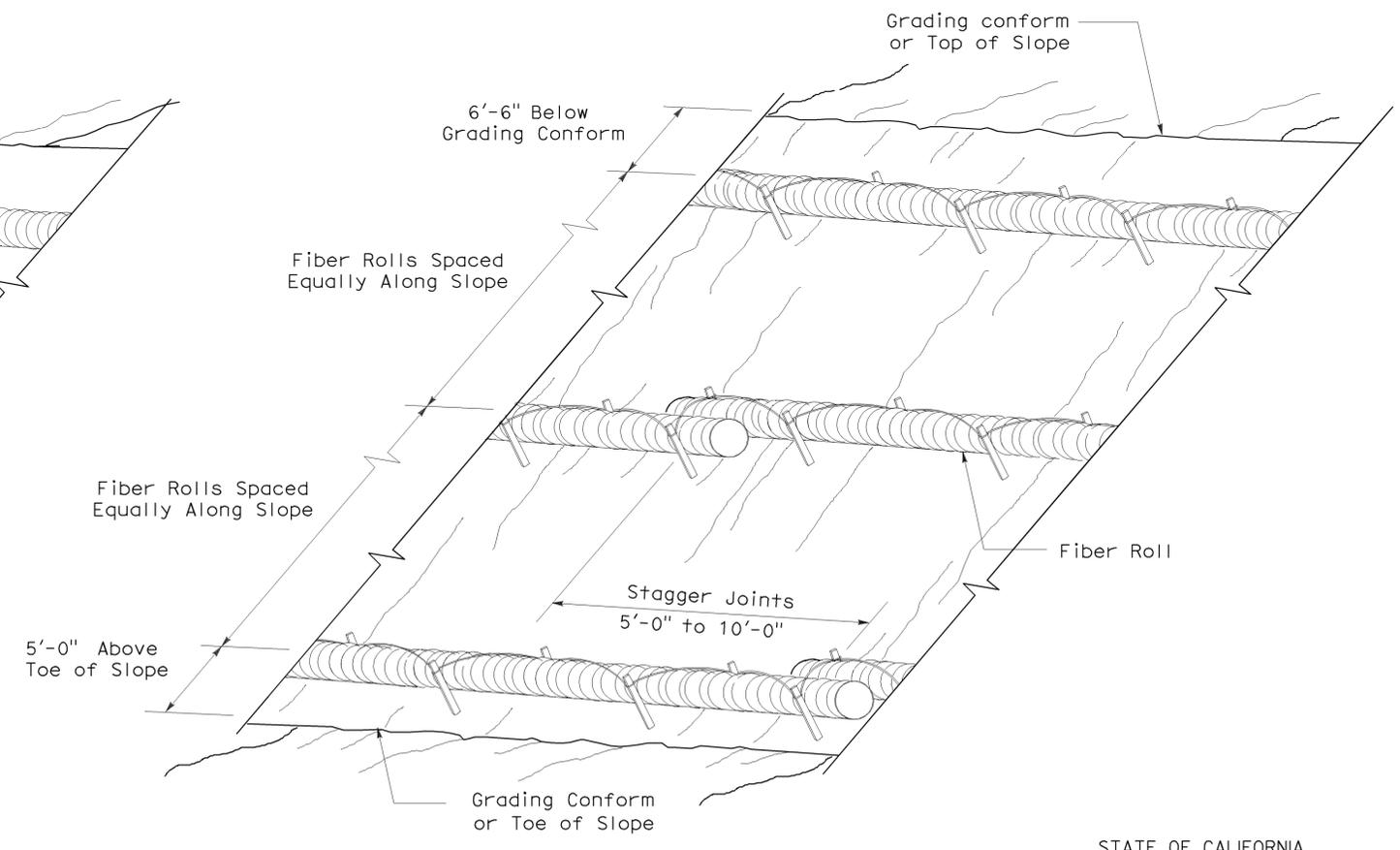
PLAN



ELEVATION
STAKE NOTCH DETAIL



PERSPECTIVE
FIBER ROLL (TYPE 1)



PERSPECTIVE
FIBER ROLL (TYPE 2)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
EROSION CONTROL DETAILS
(FIBER ROLL)

NO SCALE

RNSP H51 DATED APRIL 3, 2009 SUPERSEDES NSP H51 DATED DECEMBER 1, 2006 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

2006 REVISED NEW STANDARD PLAN RNSP H51

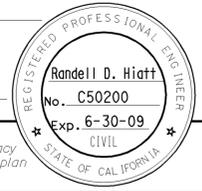
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	10	12.0/19.8	295	319

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

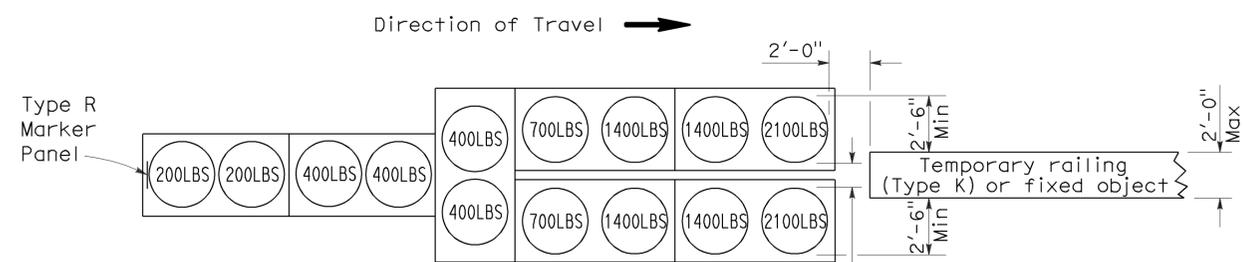
June 6, 2008
PLANS APPROVAL DATE

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 8-3-09

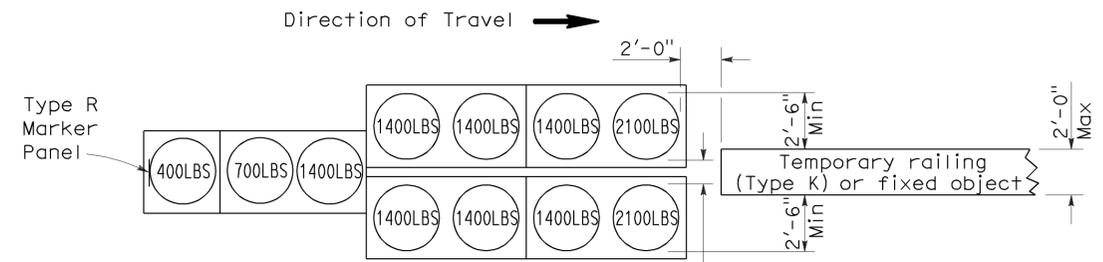


2006 REVISED STANDARD PLAN RSP T1A



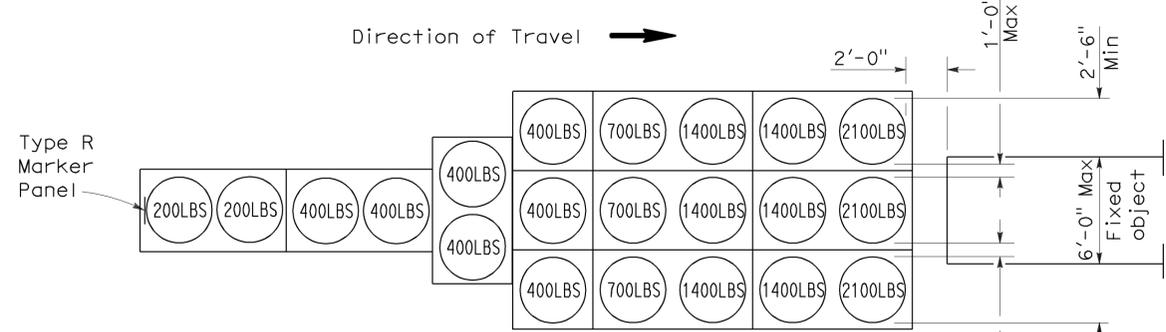
ARRAY 'TU14'

Approach speed 45 mph or more



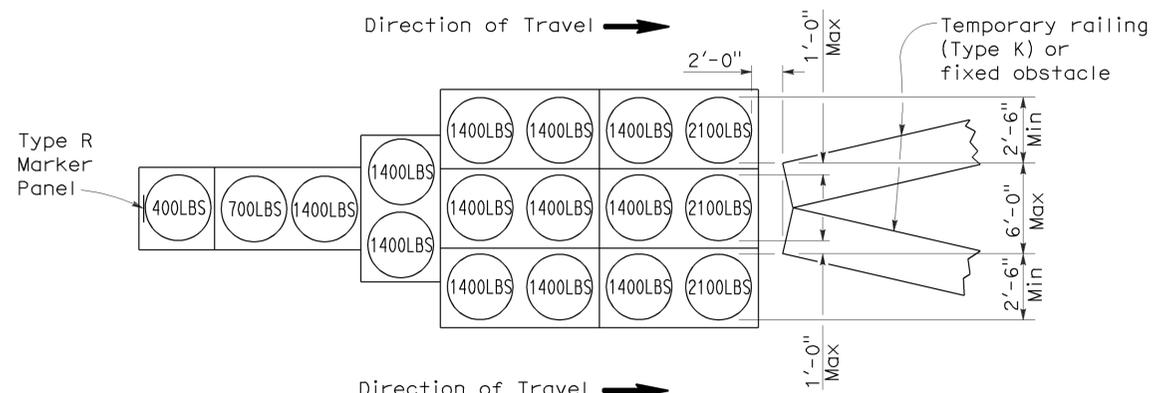
ARRAY 'TU11'

Approach speed less than 45 mph



ARRAY 'TU21'

Approach speed 45 mph or more

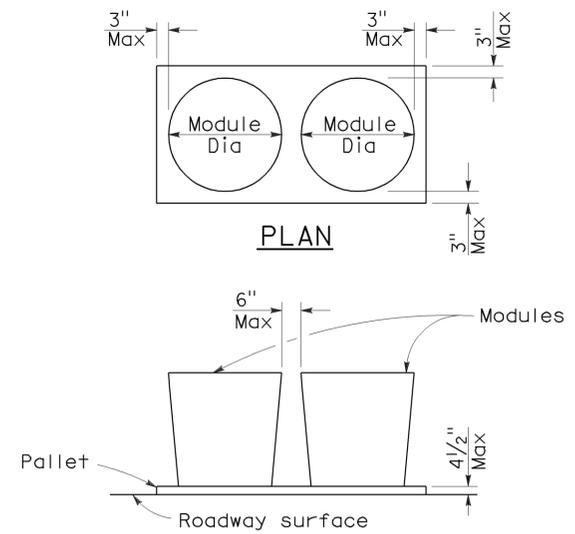


ARRAY 'TU17'

Approach speed less than 45 mph

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.



PLAN

ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

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

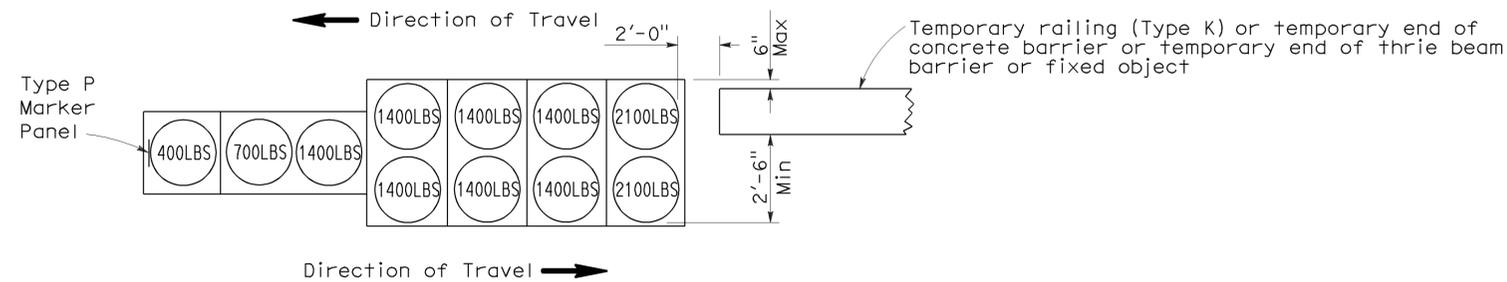
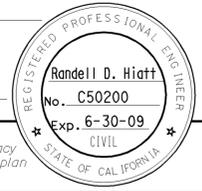
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	10	12.0/19.8	296	319

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

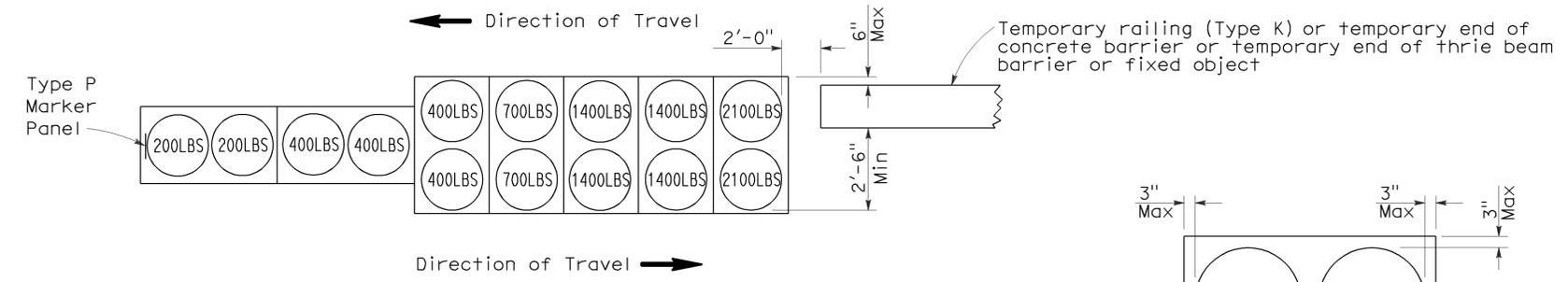
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 8-3-09



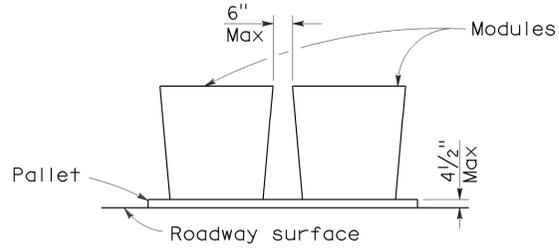
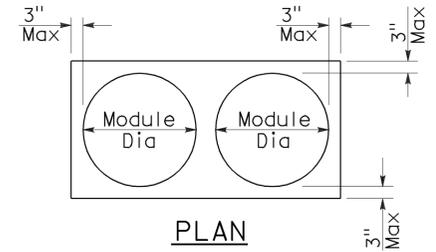
ARRAY 'TB11'

Approach speed less than 45 mph



ARRAY 'TB14'

Approach speed 45 mph or more



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

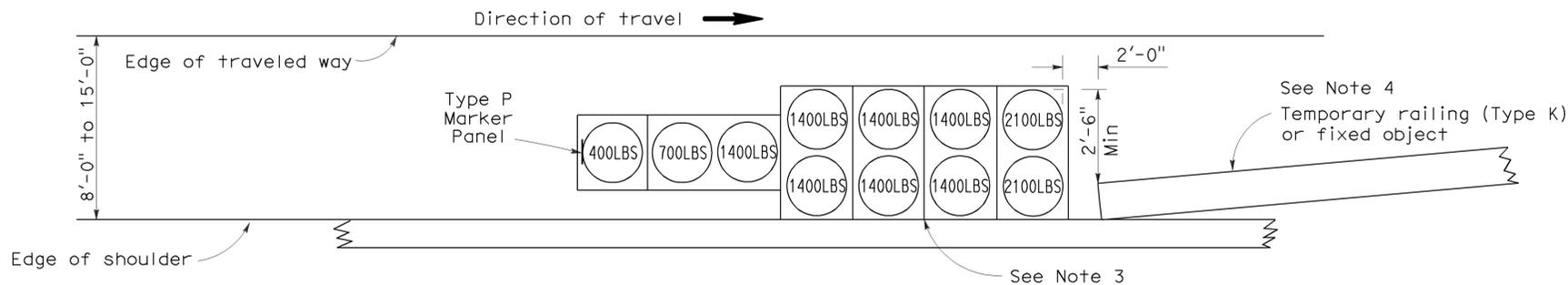
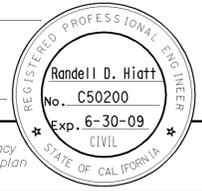
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	10	12.0/19.8	297	319

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

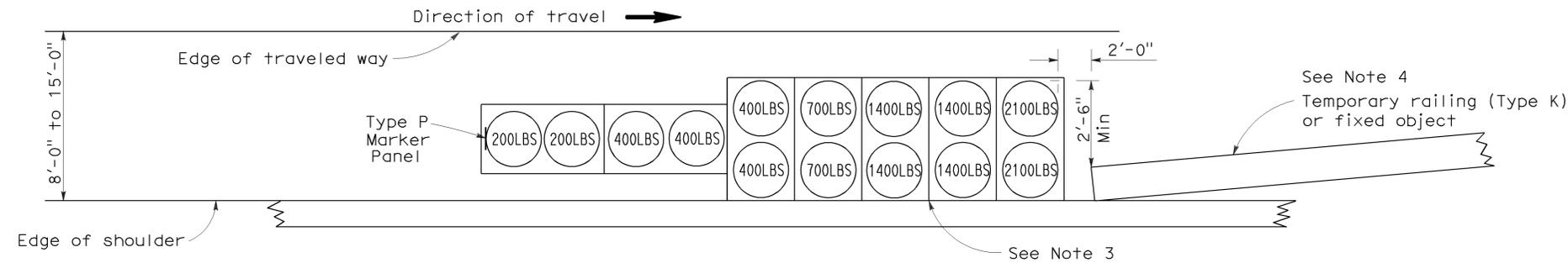
June 6, 2008
PLANS APPROVAL DATE

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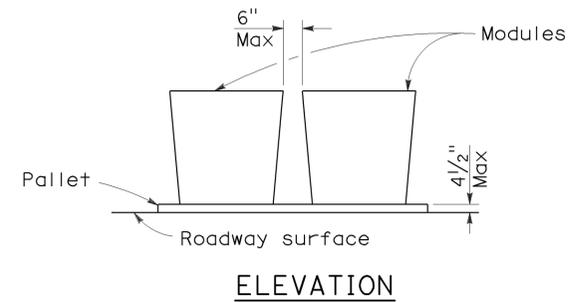
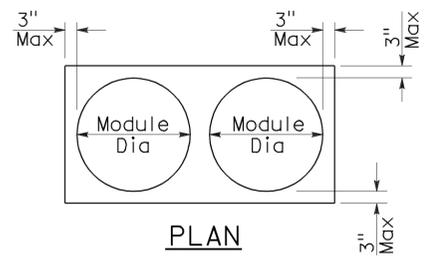
To accompany plans dated 8-3-09



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



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



CRASH CUSHION PALLET DETAIL
See Note 11

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.

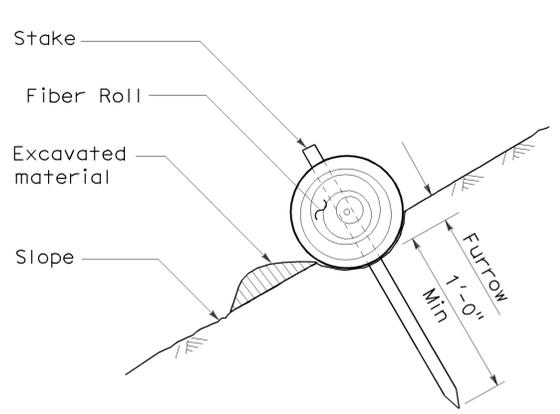
REVISED STANDARD PLAN RSP T2

2006 REVISED STANDARD PLAN RSP T2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	10	12.0/19.8	298	319

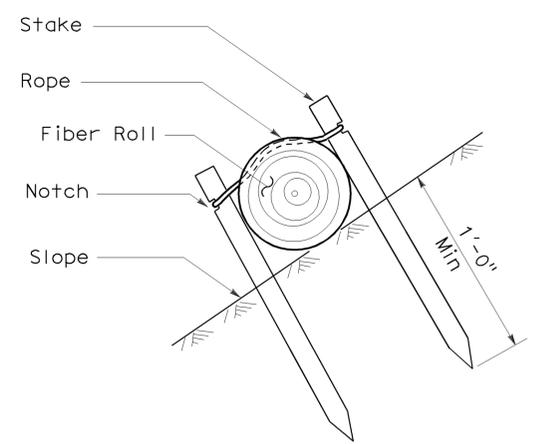
Robert B. Schott
 LICENSED LANDSCAPE ARCHITECT
 April 3, 2009
 PLANS APPROVAL DATE
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 8-3-09



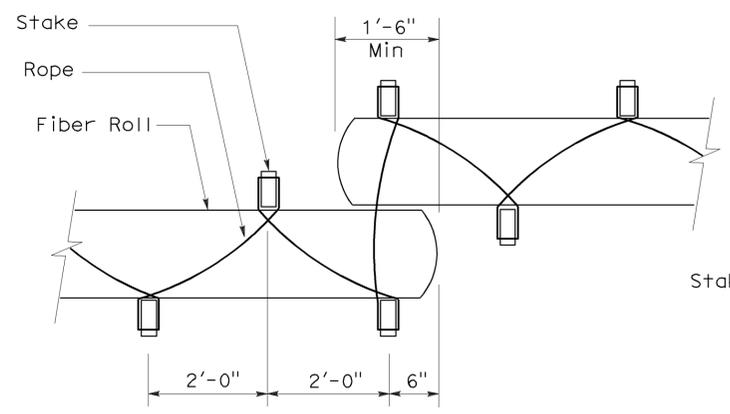
SECTION

TEMPORARY FIBER ROLL (TYPE 1)

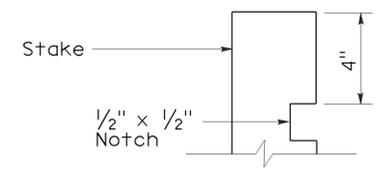


SECTION

TEMPORARY FIBER ROLL (TYPE 2)



PLAN

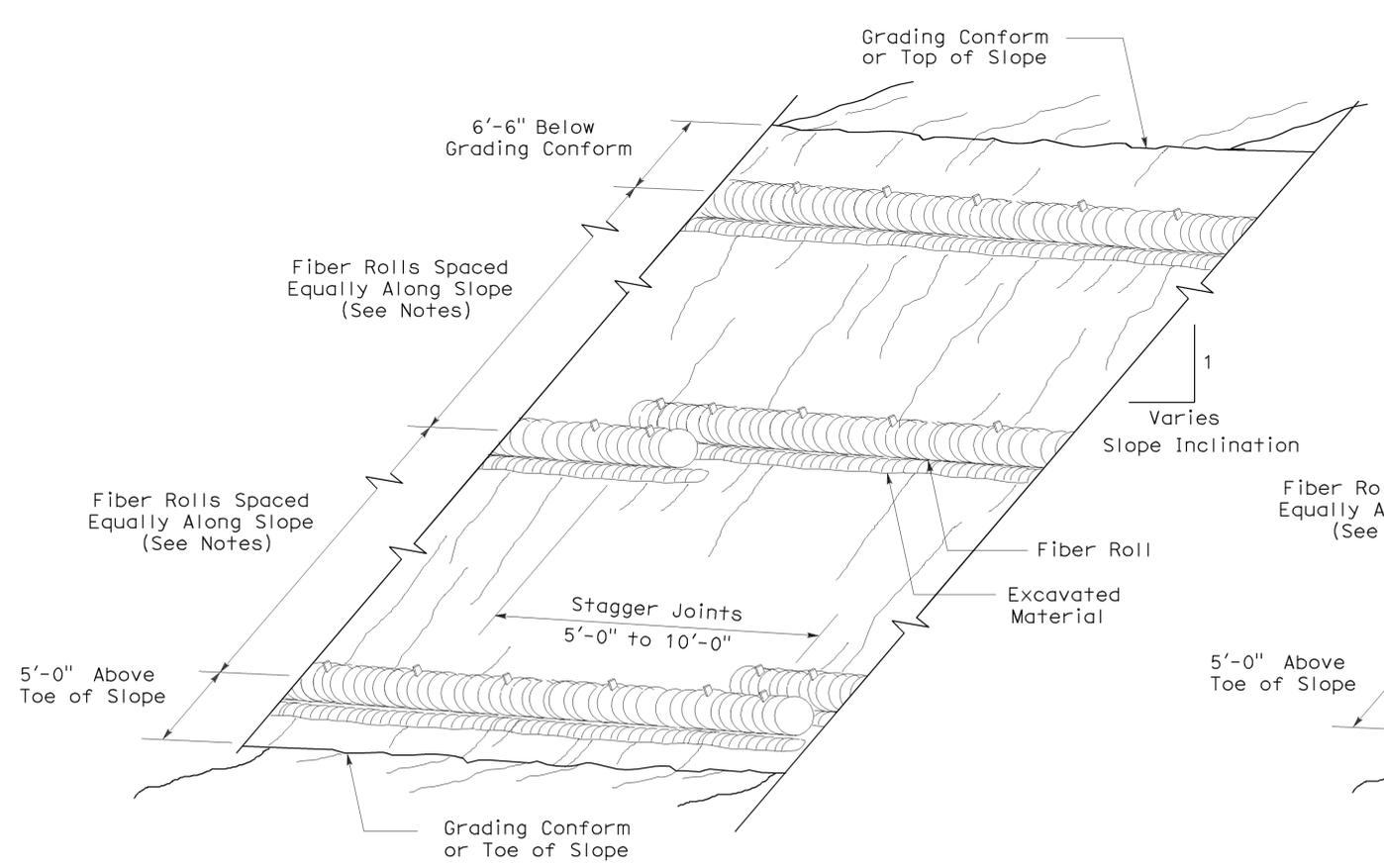


ELEVATION

STAKE NOTCH DETAIL

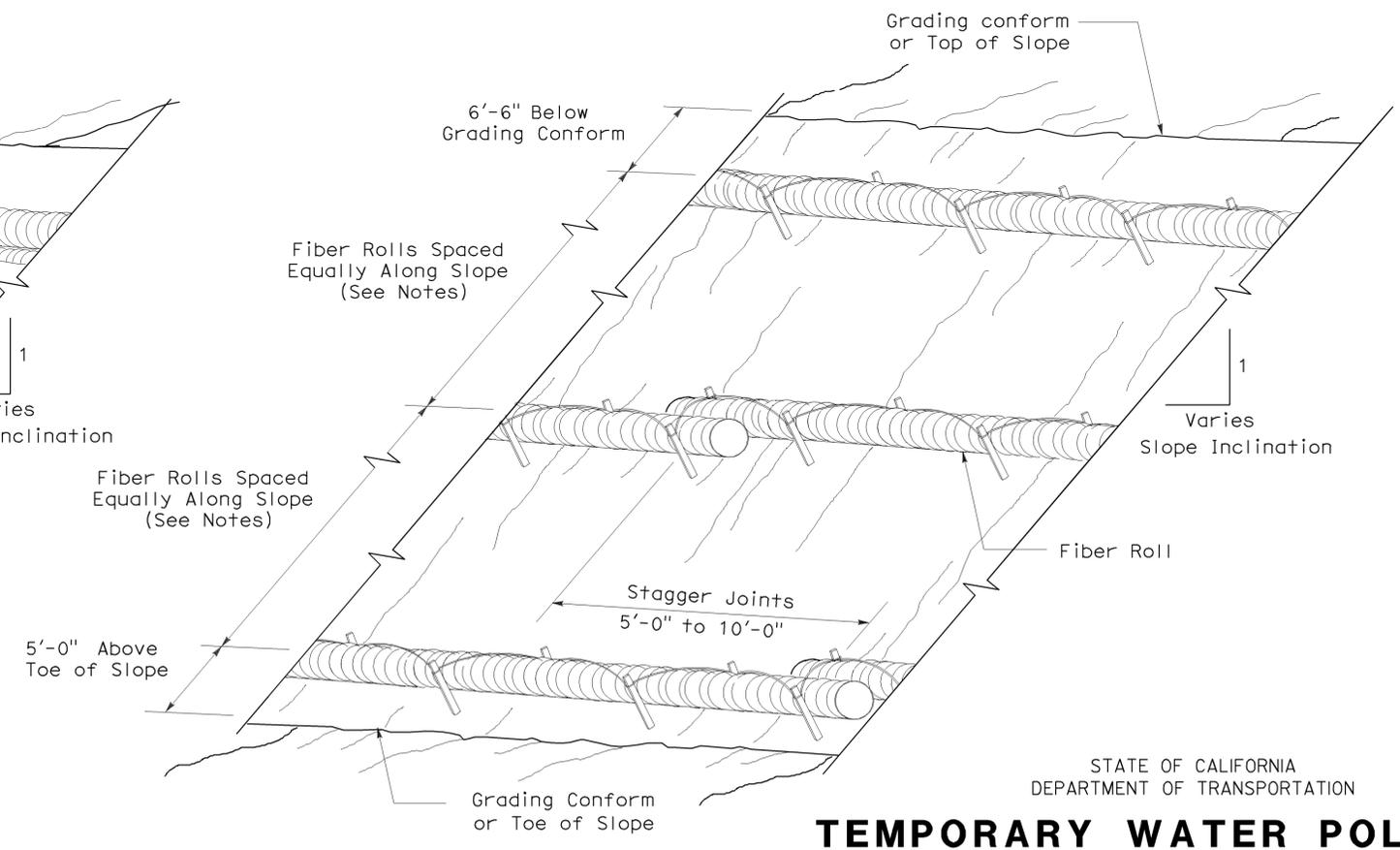
NOTES:

1. Temporary fiber roll spacing varies depending upon slope inclination.
2. Installations shown in the perspectives are for slope inclination of 10:1 and steeper.



PERSPECTIVE

TEMPORARY FIBER ROLL (TYPE 1)



PERSPECTIVE

TEMPORARY FIBER ROLL (TYPE 2)

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY FIBER ROLL)

NO SCALE

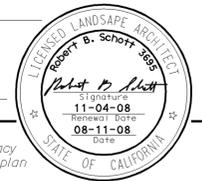
RSP T56 DATED APRIL 3, 2009 SUPERSEDES STANDARD PLAN T56 DATED MAY 1, 2006 - PAGE 232 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T56

2006 REVISED STANDARD PLAN RSP T56

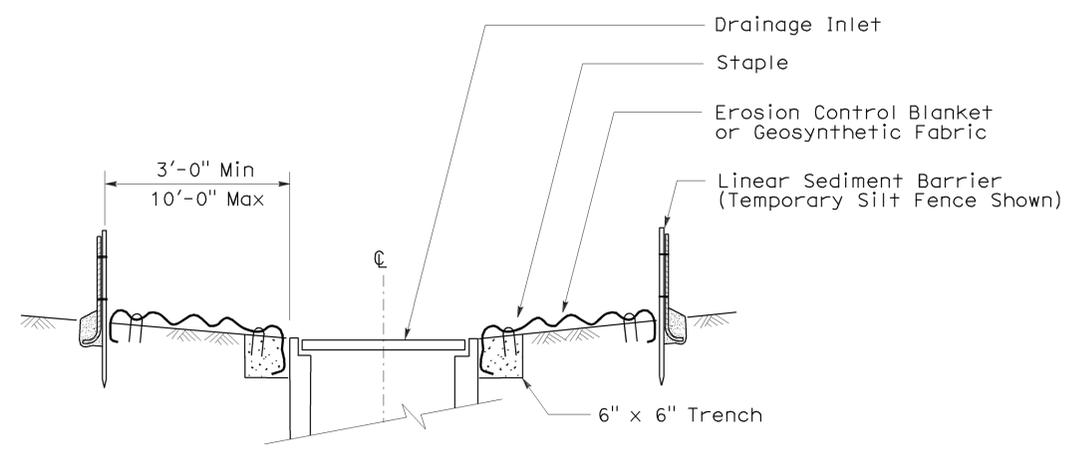
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	10	12.0/19.8	299	319

Robert B. Schott
 LICENSED LANDSCAPE ARCHITECT
 August 15, 2008
 PLANS Approval DATE
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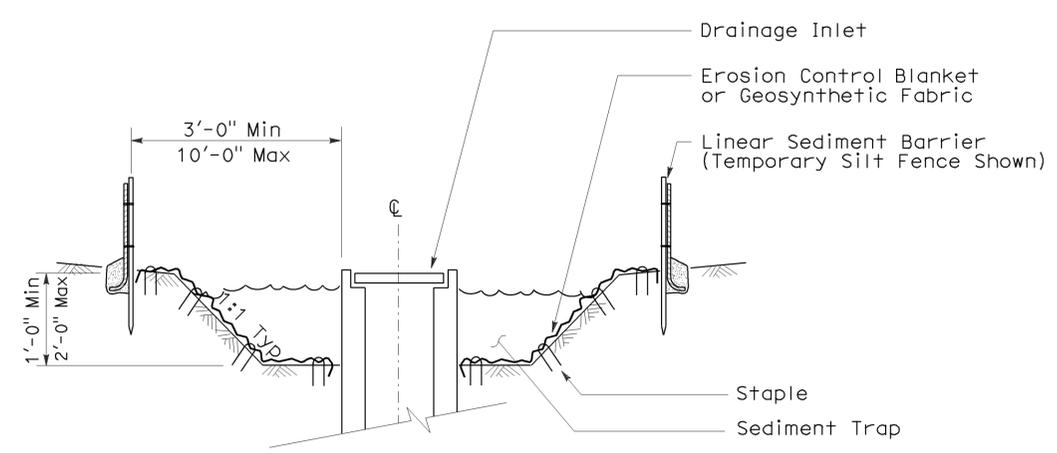


To accompany plans dated 8-3-09

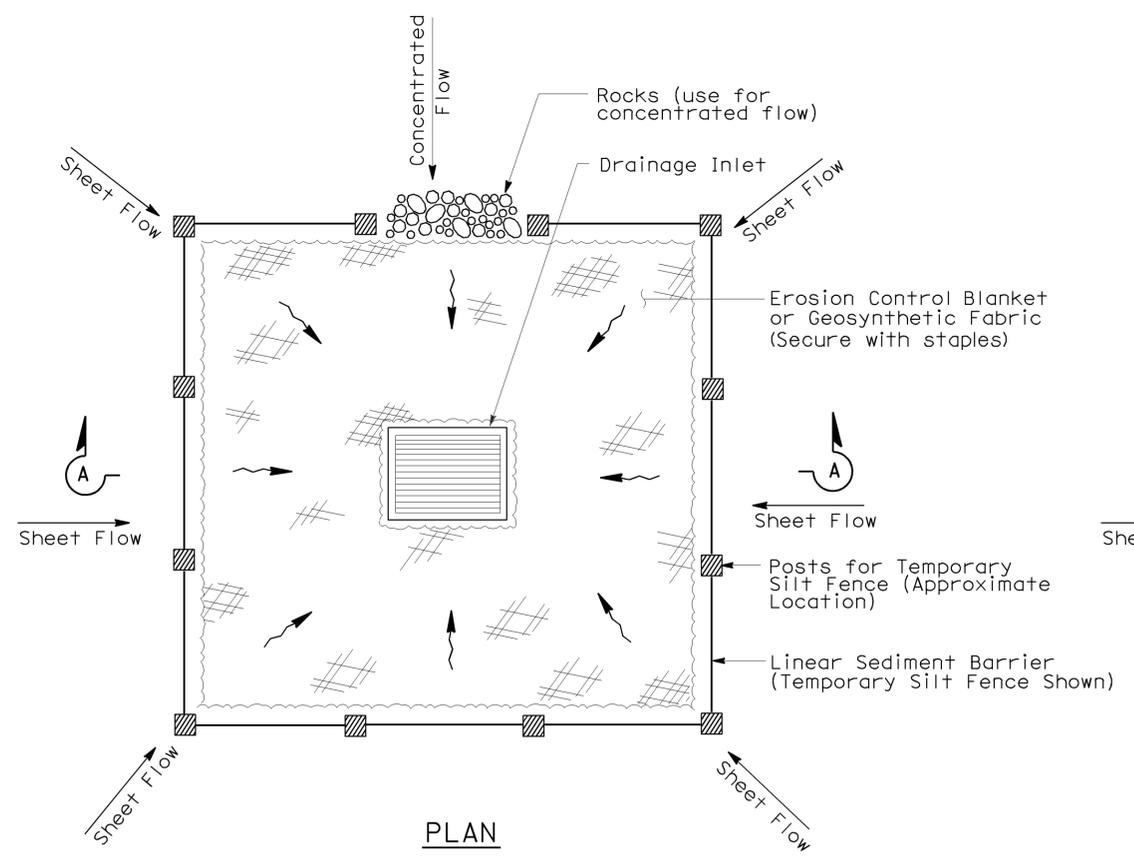
- NOTES:**
1. See Standard Plan T51 for Temporary Silt Fence.
 2. Dimensions may vary to fit field conditions.



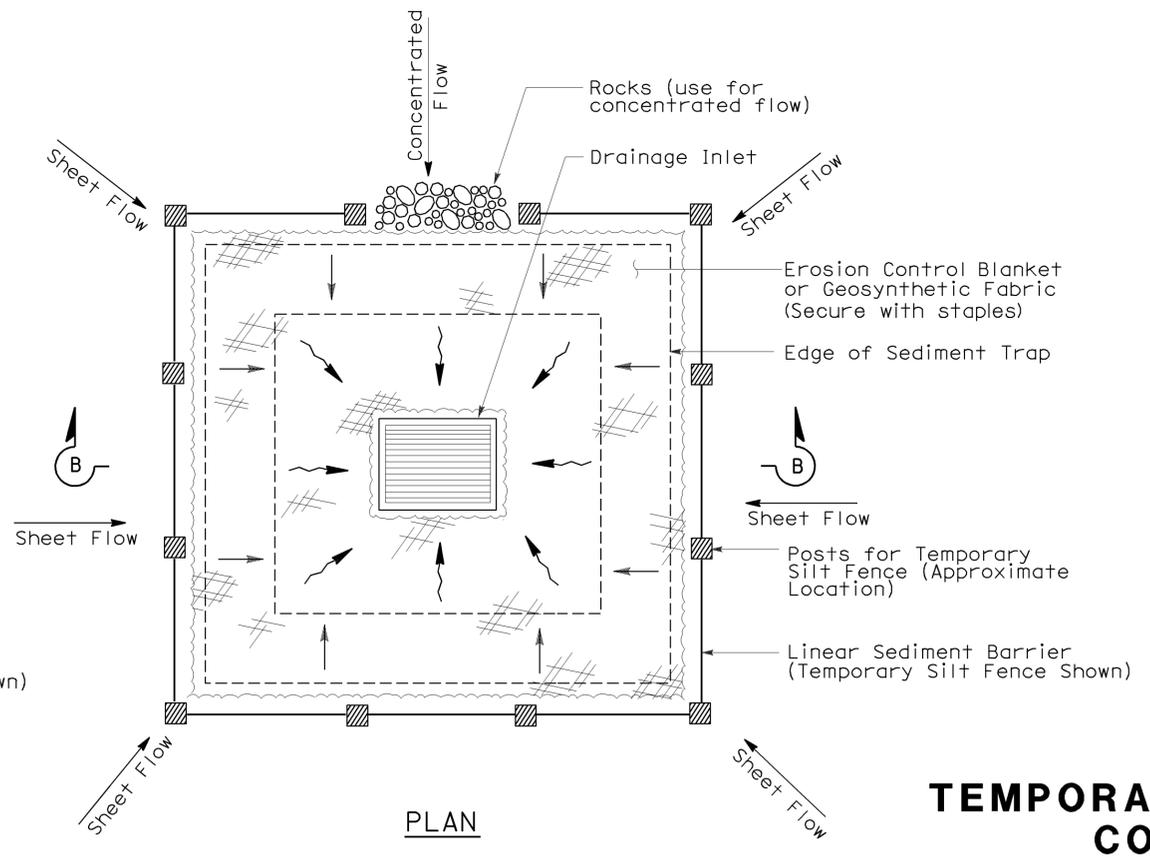
SECTION A-A



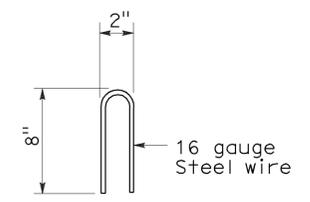
SECTION B-B



TEMPORARY DRAINAGE INLET PROTECTION (TYPE 1)



TEMPORARY DRAINAGE INLET PROTECTION (TYPE 2) (EXCAVATED SEDIMENT TRAP)



STAPLE DETAIL

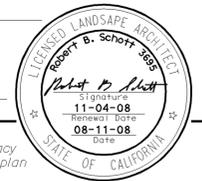
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
TEMPORARY WATER POLLUTION CONTROL DETAILS
(TEMPORARY DRAINAGE INLET PROTECTION)
 NO SCALE

NSP T61 DATED AUGUST 15, 2008 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

2006 NEW STANDARD PLAN NSP T61

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	10	12.0/19.8	300	319

Robert B. Schott
 LICENSED LANDSCAPE ARCHITECT
 August 15, 2008
 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.



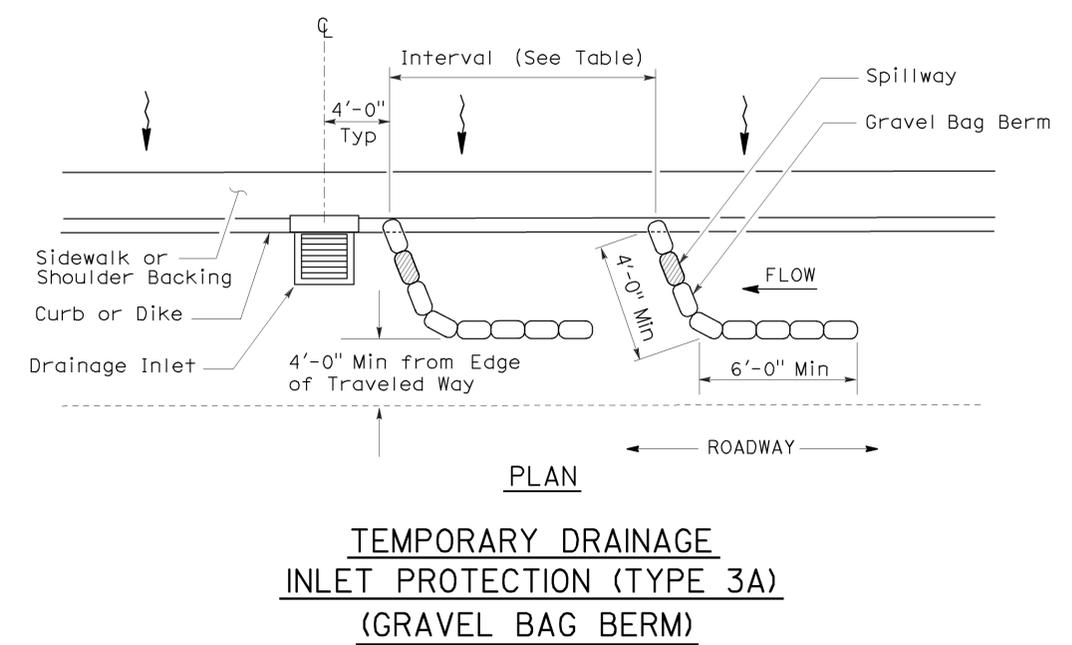
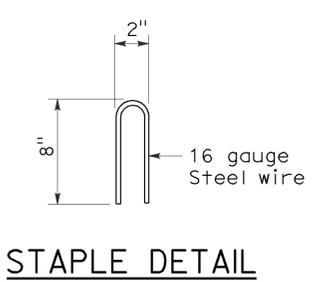
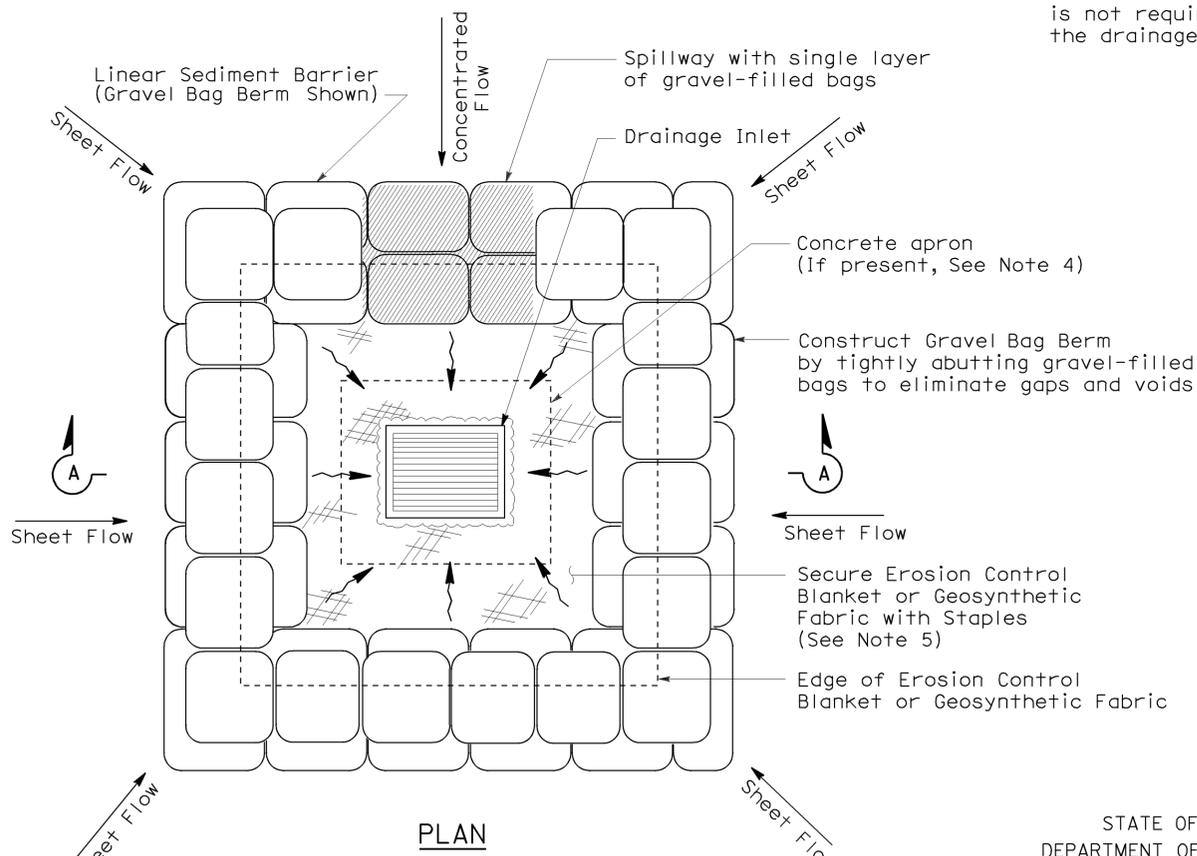
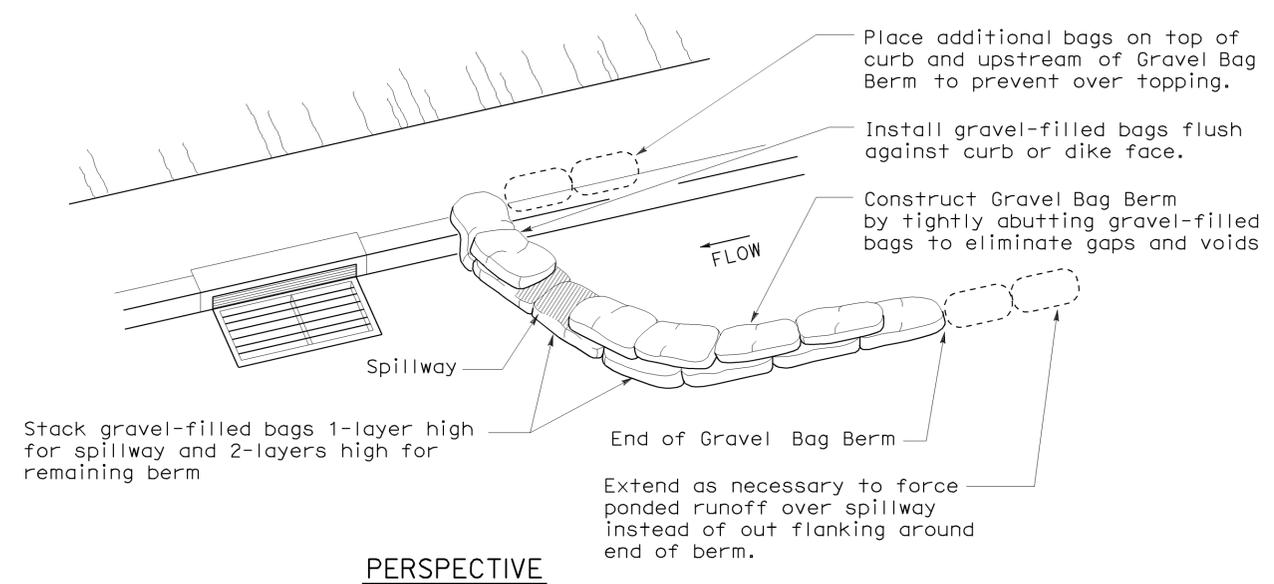
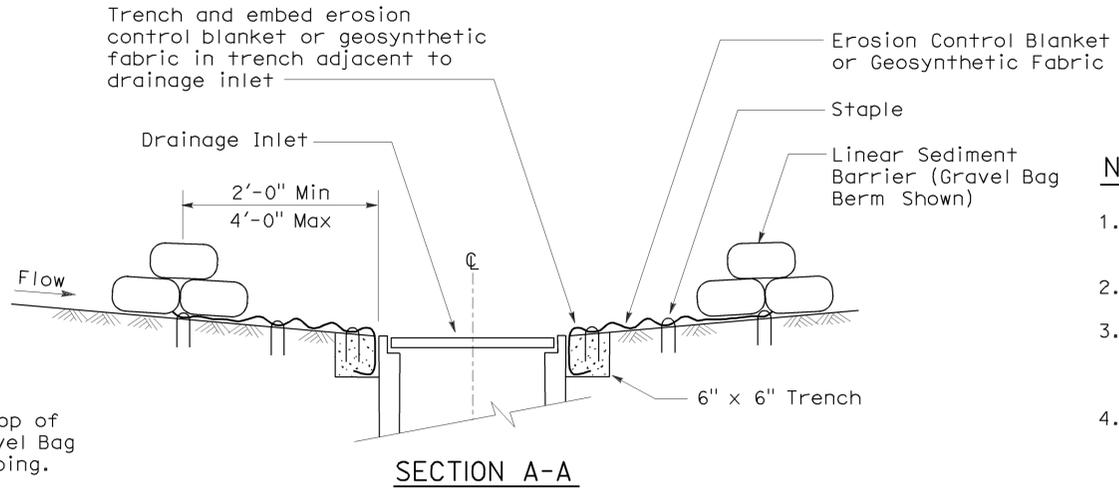
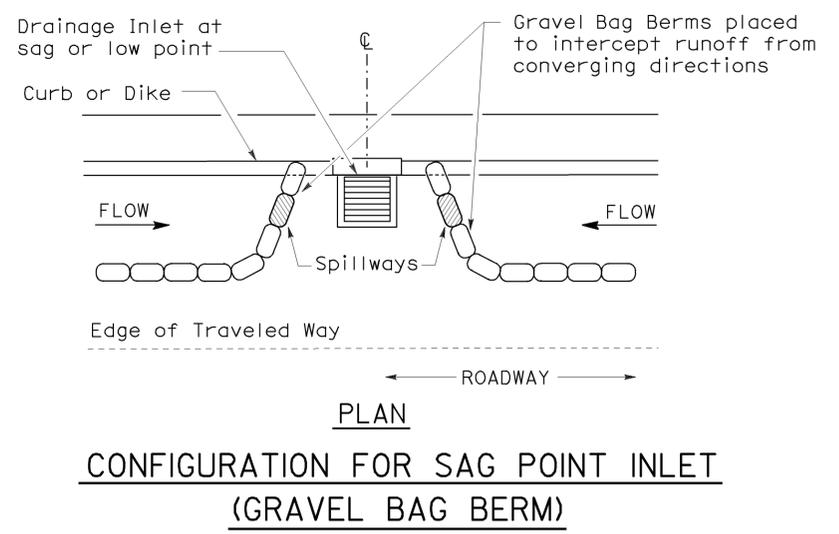
To accompany plans dated 8-3-09

- NOTES:**
1. Place safety cones adjacent to drainage inlet protection.
 2. Dimensions may vary to fit field conditions.
 3. Install a minimum of 3 gravel bag berms upstream of each drainage inlet to be protected.
 4. Position erosion control blanket or geosynthetic fabric at edge of concrete apron and secure in trench.
 5. Erosion control blanket or geosynthetic fabric is not required if the area adjacent to the drainage inlet is vegetated or paved.

GRAVEL BAG BERM (TYPE 3A) SPACING TABLE

SLOPE OF ROADWAY (PERCENT)	1 to 3.9	4 to 5.9	6 to 7.9	8 to 10	10+
INTERVAL BETWEEN BERM	100'	75'	50'	25'	12'

For slope of less than 1%, install barriers only if erosion/sediment is prevalent



STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)
 NO SCALE
 NSP T62 DATED AUGUST 15, 2008 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

2006 NEW STANDARD PLAN NSP T62