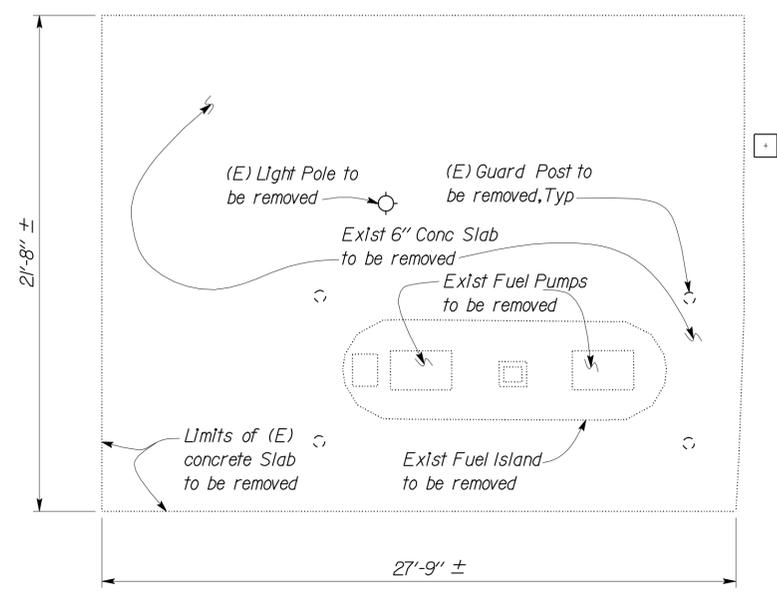
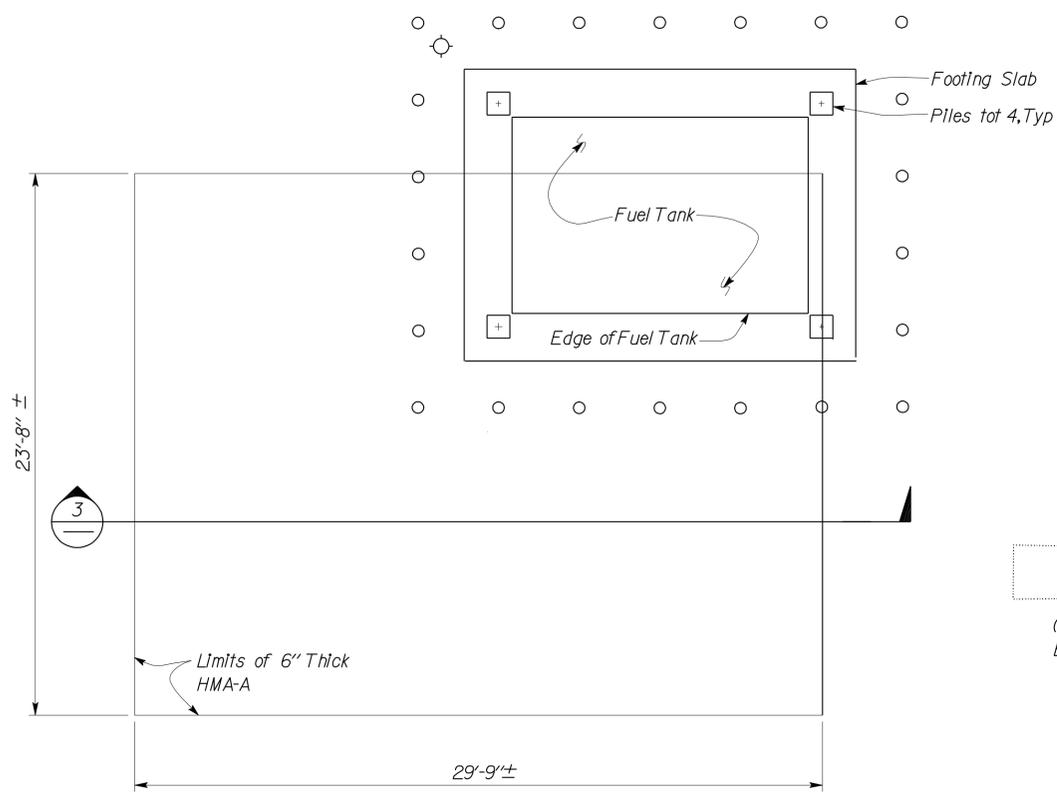


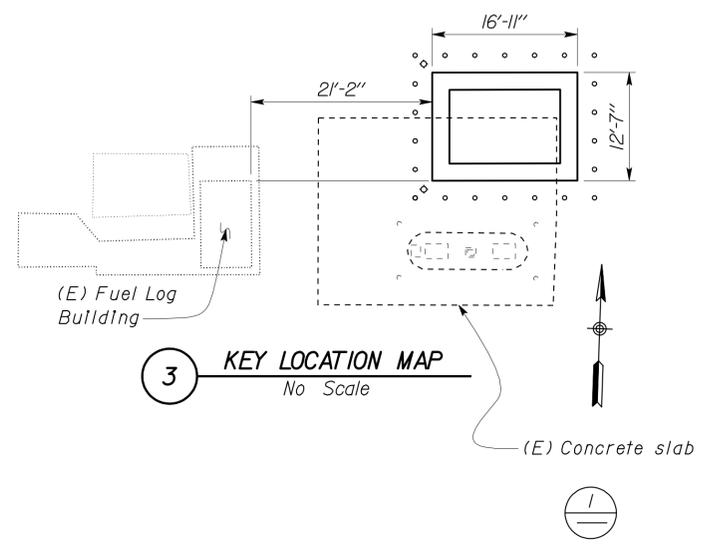
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Alameda, Contra Costa, San Mateo	Var	Var	101	160
			REGISTERED CIVIL ENGINEER DATE 02-16-10 3-7-11 PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



1 REMOVAL PLAN
Scale 1/4" = 1' - 0"

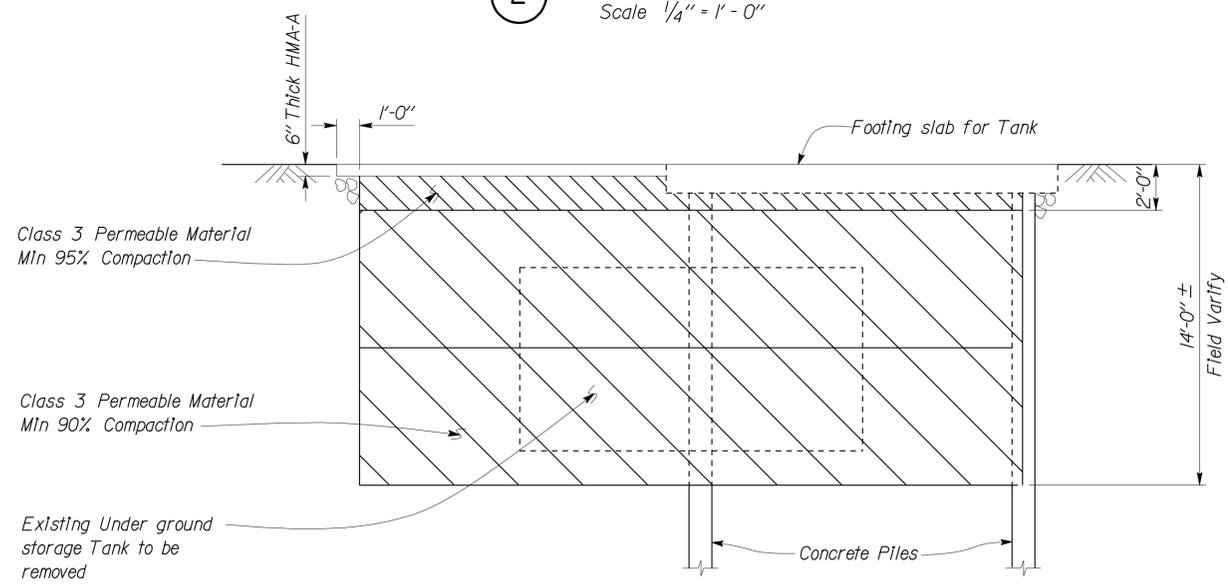


2 BACKFILLING PLAN
Scale 1/4" = 1' - 0"



3 KEY LOCATION MAP
No Scale

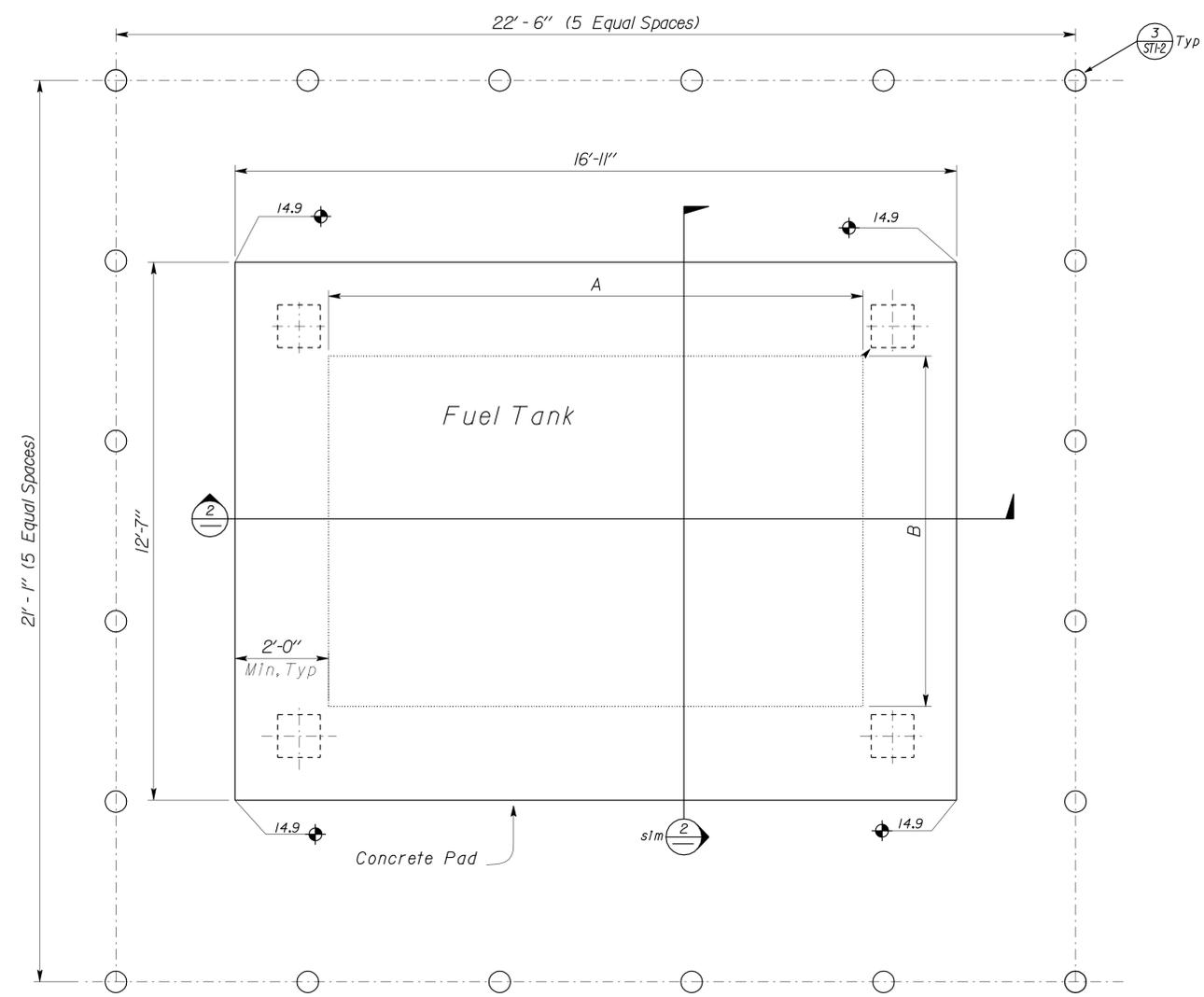
- NOTES:**
- Exact Location of the (E) 2000 Gallon Gasoline and 2000 Gallon Diesel Under Ground storage Tanks shall be determined prior to Excavation.
 - The Tanks are buried with approximate cover of 4'-6" ± below the grade.



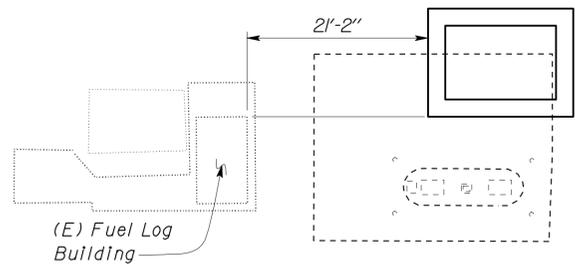
3 SECTION
Scale 1/4" = 1' - 0"

DESIGN	BY	Chandra Bapat	CHECKED	Thomas Tong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	350054	SAN MATEO AND HAYWARD BRIDGE MAINTENANCE STATION UST REMOVAL AND BACKFILL	SHEET	OF	
	DETAILS	BY	Andrew A. Lovato	CHECKED			Chandra Bapat	POST MILE		2.6	ST1-9	
QUANTITIES	BY		CHECKED		UNIT	0702	REVISION DATES (PRELIMINARY STAGE ONLY)			SHEET	OF	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0	1	2	3	DISREGARD PRINTS BEARING EARLIER REVISION DATES			
DOES SD Imperial Rev. 9/02					PROJECT NUMBER & PHASE		EA 3A0901	04000009271	03-26-10 04-13-10 07-07-10			

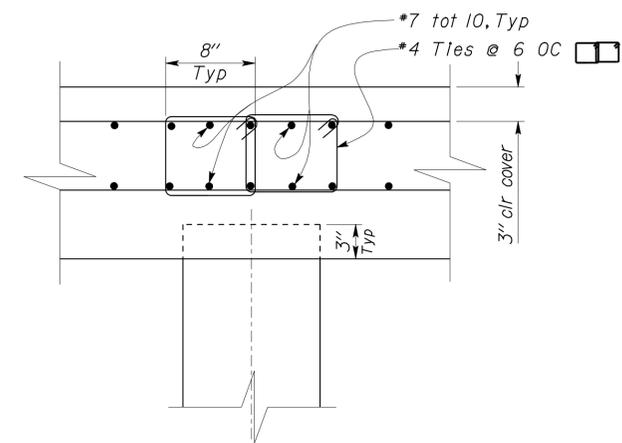
11-MAR-2011 10:28



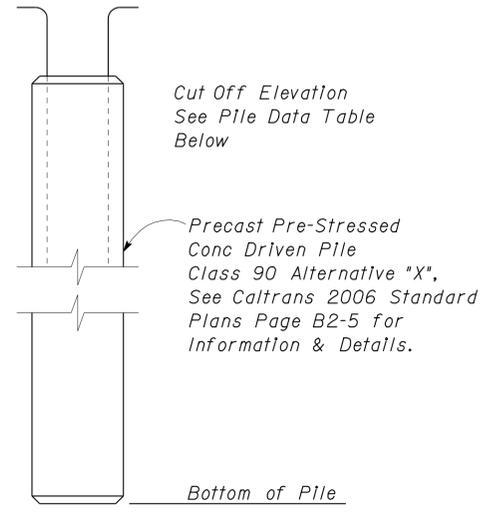
1 FOUNDATION PLAN
Scale 1/2" = 1'-0"



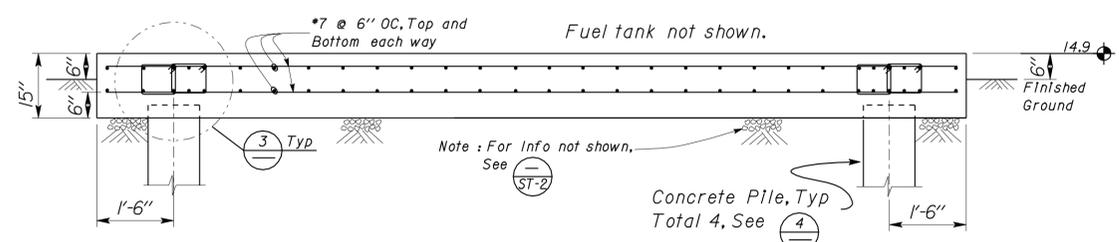
5 KEY LOCATION MAP
No Scale



3 TYP PILE & FOUNDATION SECTION DETAIL
Scale 1 1/2" = 1'-0"



4 CONCRETE PILE
Scale 1 1/2" = 1'-0"



2 CONCRETE PAD SECTION
Scale 3/4" = 1'-0"
Elevation 14.4+Datum 0'-0"

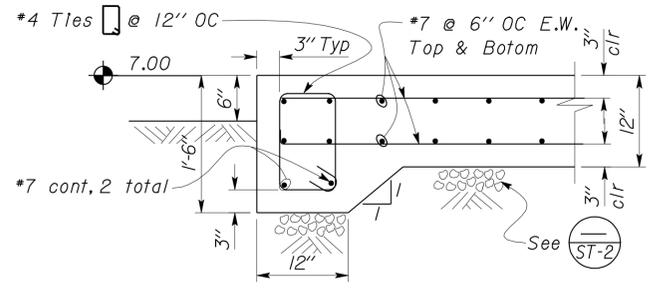
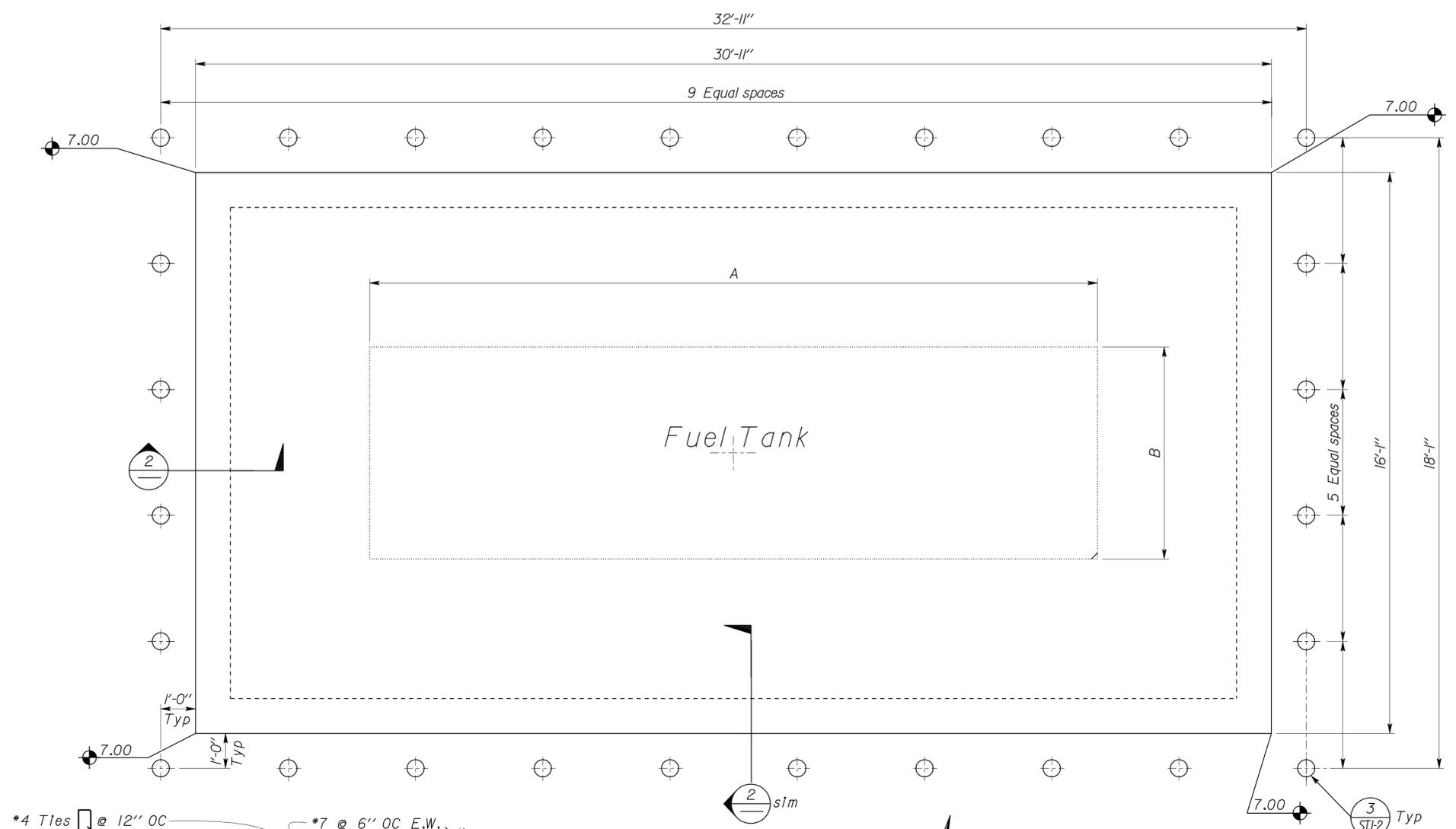
PILE DATA PLAN						
Pile Type	Design Loading (kips)	Nominal Resistance (kips)		Design Tip * Elevation (ft)	Specified Tip Elevation (ft)	Cut Off Elevation For Piles
		Compression	Tension			
Class 90 Alternative "X"	90	180	70	-39.50 (1) -23.2 (2)	-39.50	13.90

* Note 1. Pile Tip Elevations are controlled by following Demands: (1) Compression (2) Tension.
 2. Predrill to Elevation 0.0 is recommended for piles to be driven through backfilled zone.
 3. The required Driving Resistance for piles driven outside the backfilled area is 270 kips, and 180 kips for piles driven through backfill.

FUEL TANK DATA					
LOCATION OF TANKS	TYPE	CAPACITY (Gallons)		* A x B	TOTAL WEIGHT OF TANK KIPS (Including Fuel)
		Gas	Diesel		
San Mateo & Hayward Bridge Maintenance Station	Fuel Tank	2,000	2,000	12'-11" x 8'-7"	42 Kips

* These Dimensions may change as per Manufacturer
 Note: Refer Drawing STI-9 for Excavation and Backfill

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Alameda, Contra Costa, San Mateo	Var	Var	103	160
 REGISTERED CIVIL ENGINEER			02-16-10 DATE		
3-7-11 PLANS APPROVAL DATE					
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1 TANK FOUNDATION PLAN
 Scale 1/2" = 1'-0"
 Elevation 6.50 = Datum 0'-0"

2 SLAB SECTION
 Scale 1" = 1'-0"

FUEL TANK DATA

LOCATION OF TANKS	TYPE	CAPACITY (Gallons)		Tank x Dimensions	TOTAL WEIGHT OF TANK KIPS (Including Fuel)
		Gas	Diesel		
Ravenswood Pumping Plant	Single Tank (Diesel)	- -	3,000	A and B 20'- 11" x 6'- 1"	32 Kips

*These Dimensions may change as per Manufacturer

DESIGN BY Chandra Bapat	CHECKED Thomas Tong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 35-0292W	RAVENSWOOD PUMPING PLANT	FOUNDATION PLAN FOR FUEL STORAGE TANKS	SHEET ST1-11
				POST MILE 28			
DETAILS BY Andrew A. Lovato	CHECKED Chandra Bapat	UNIT 0702	PROJECT NUMBER & PHASE 04000009271	REVISION DATES (PRELIMINARY STAGE ONLY)			
QUANTITIES BY	CHECKED	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		DISREGARD PRINTS BEARING EARLIER REVISION DATES 11-19-09 11-24-09 12-08-09 02-18-10 07-07-10			

DOES SD Imperial Rev. 9/02 EA 3A0901 s+1_11.dgn

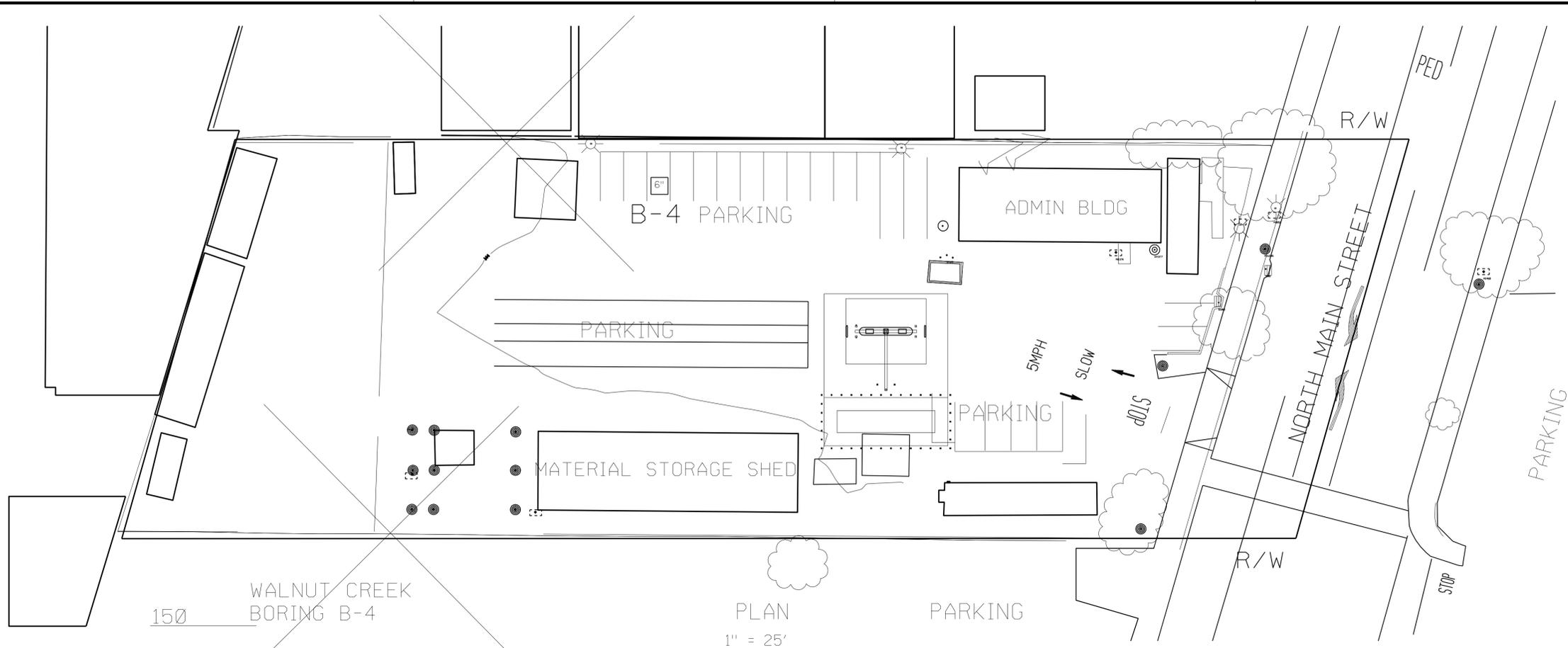
DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST PROJECT	SHEET No	TOTAL SHEETS
04	Alameda, CC, SM	Var	Var	Var	104	160

Andrew D. Lehane
 REGISTERED CIVIL ENGINEER DATE
 3-7-11
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 ANDREW D. LEHANE
 55798
 EXP. 12-31-2010
 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).



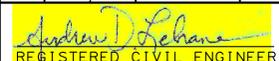
WALNUT CREEK BORING B-4

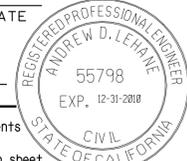
PLAN
1" = 25'



FUNCTIONAL SUPERVISOR NAME: T. RIPP	DRAWN BY: T. SCHAEFFER CHECKED BY: T. RIPP/A. LEHANE	FIELD INVESTIGATION BY: B. STEMPSON	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	SHAW ENVIRONMENTAL, INC.	BRIDGE NO. 28M5738 POST MILES 15.6	WALNUT CREEK WEST MAINTENANCE STATION LOG OF TEST BORINGS 1 OF 3
065 CIVIL LOG OF TEST BORINGS SHEET			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 04 EA 3A0901 FILE => sf_Log01_of_12.dgn	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 5/24/10

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Alameda, Contra Costa, San Mateo	Var	Var	105	160


 REGISTERED CIVIL ENGINEER DATE _____
 3-7-11
 PLANS APPROVAL DATE _____
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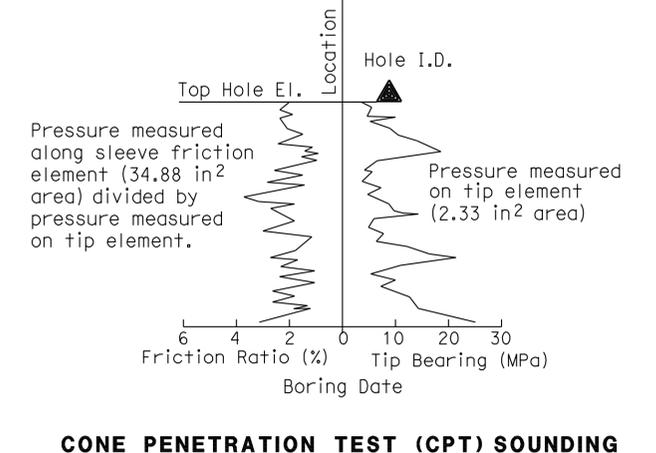
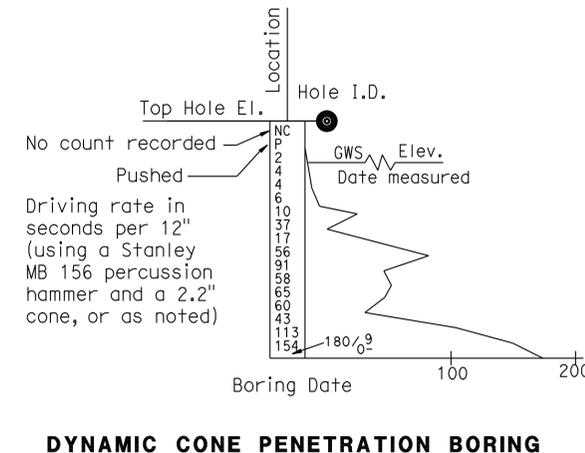
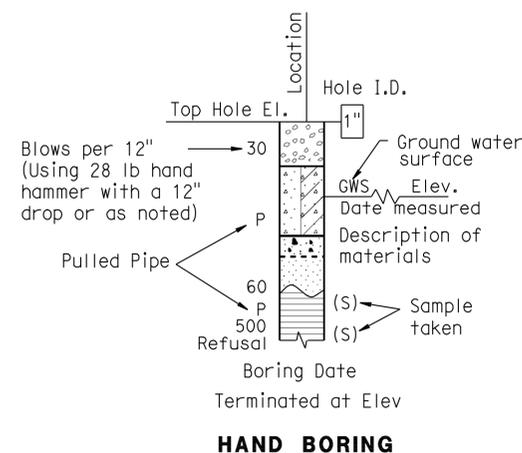
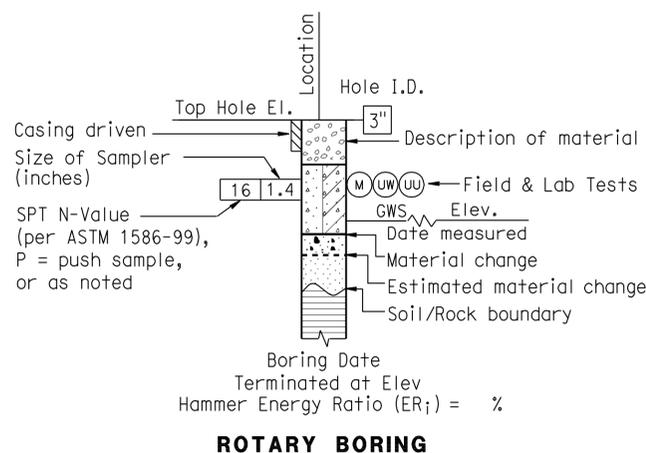
CEMENTATION	
Description	Criteria
Weak	Crumbles or breaks with handling or little finger pressure.
Moderate	Crumbles or breaks with considerable finger pressure.
Strong	Will not crumble or break with finger pressure.

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.

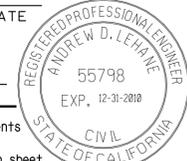


PREPARED BY	T. SCHAEFFER	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	28M5738	WALNUT CREEK WEST MAINTENANCE STATION LOG OF TEST BORINGS 2 OF 3
CHECKED BY	T. RIPP/A. LEHANE		POST MILE	15.6	
GS LOTB SOIL LEGEND	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 04 EA 3A0901	DISREGARD PRINTS BEARING EARLIER REVISION DATES	5/24/10	SHEET OF

USERNAME => htlengard DATE PLOTTED => 15-MAR-2011 TIME PLOTTED => 10:03

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Alameda, CC, SM	Var	Var	106	160


 REGISTERED CIVIL ENGINEER DATE _____
 3-7-11
 PLANS APPROVAL DATE _____
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GROUP SYMBOLS AND NAMES			
Graphic/Symbol	Group Names	Graphic/Symbol	Group Names
	Well-graded GRAVEL		Lean CLAY
	Well-graded GRAVEL with SAND		Lean CLAY with SAND
	Poorly graded GRAVEL		SANDY lean CLAY
	Poorly graded GRAVEL with SAND		GRAVELLY lean CLAY
	Well-graded GRAVEL with SILT		SILTY CLAY
	Well-graded GRAVEL with SILT and SAND		SILTY CLAY with SAND
	Well-graded GRAVEL with CLAY (or SILTY CLAY)		SANDY SILTY CLAY
	Well-graded GRAVEL with CLAY and SAND (or SILTY CLAY and SAND)		GRAVELLY SILTY CLAY
	Poorly graded GRAVEL with SILT		SILTY CLAY with GRAVEL
	Poorly graded GRAVEL with SILT and SAND		SANDY SILTY CLAY with GRAVEL
	Poorly graded GRAVEL with CLAY (or SILTY CLAY)		GRAVELLY SILTY CLAY
	Poorly graded GRAVEL with CLAY and SAND (or SILTY CLAY and SAND)		GRAVELLY SILTY CLAY with SAND
	SILTY GRAVEL		SILT
	SILTY GRAVEL with SAND		SILT with SAND
	CLAYEY GRAVEL		SILT with GRAVEL
	CLAYEY GRAVEL with SAND		SANDY SILT
	SILTY, CLAYEY GRAVEL		SANDY SILT with GRAVEL
	SILTY, CLAYEY GRAVEL with SAND		GRAVELLY SILT
	Well-graded SAND		GRAVELLY SILT with SAND
	Well-graded SAND with GRAVEL		ORGANIC lean CLAY
	Poorly graded SAND		ORGANIC lean CLAY with SAND
	Poorly graded SAND with GRAVEL		ORGANIC lean CLAY with GRAVEL
	Well-graded SAND with SILT		SANDY ORGANIC lean CLAY
	Well-graded SAND with SILT and GRAVEL		SANDY ORGANIC lean CLAY with GRAVEL
	Well-graded SAND with CLAY (or SILTY CLAY)		GRAVELLY ORGANIC lean CLAY
	Well-graded SAND with CLAY and GRAVEL (or SILTY CLAY and GRAVEL)		GRAVELLY ORGANIC lean CLAY with SAND
	Poorly graded SAND with SILT		ORGANIC SILT
	Poorly graded SAND with SILT and GRAVEL		ORGANIC SILT with SAND
	Poorly graded SAND with CLAY (or SILTY CLAY)		ORGANIC SILT with GRAVEL
	Poorly graded SAND with CLAY and GRAVEL (or SILTY CLAY and GRAVEL)		SANDY ORGANIC SILT
	SILTY SAND		SANDY ORGANIC SILT with GRAVEL
	SILTY SAND with GRAVEL		GRAVELLY ORGANIC SILT
	CLAYEY SAND		GRAVELLY ORGANIC SILT with SAND
	CLAYEY SAND with GRAVEL		Fat CLAY
	SILTY, CLAYEY SAND		Fat CLAY with SAND
	SILTY, CLAYEY SAND with GRAVEL		Fat CLAY with GRAVEL
	PEAT		SANDY fat CLAY
	COBBLES		SANDY fat CLAY with GRAVEL
	COBBLES and BOULDERS		GRAVELLY fat CLAY
	BOULDERS		GRAVELLY fat CLAY with SAND
	ORGANIC SOIL		Elastic SILT
	ORGANIC SOIL with SAND		Elastic SILT with SAND
	ORGANIC SOIL with GRAVEL		Elastic SILT with GRAVEL
	SANDY ORGANIC SOIL		SANDY elastic SILT
	SANDY ORGANIC SOIL		GRAVELLY elastic SILT
	SANDY ORGANIC SOIL with GRAVEL		GRAVELLY elastic SILT with SAND
	GRAVELLY ORGANIC SOIL		ORGANIC fat CLAY
	GRAVELLY ORGANIC SOIL with SAND		ORGANIC fat CLAY with SAND
	ORGANIC SOIL with SAND		ORGANIC fat CLAY with GRAVEL
	ORGANIC SOIL with GRAVEL		SANDY ORGANIC fat CLAY
	SANDY ORGANIC SOIL with GRAVEL		GRAVELLY ORGANIC fat CLAY
	GRAVELLY ORGANIC SOIL		GRAVELLY ORGANIC fat CLAY with SAND
	GRAVELLY ORGANIC SOIL with SAND		ORGANIC elastic SILT
	GRAVELLY ORGANIC SOIL with GRAVEL		ORGANIC elastic SILT with SAND
	ORGANIC SOIL with SAND		ORGANIC elastic SILT with GRAVEL
	ORGANIC SOIL with GRAVEL		SANDY ORGANIC elastic SILT
	SANDY ORGANIC SOIL		GRAVELLY ORGANIC elastic SILT
	SANDY ORGANIC SOIL with GRAVEL		GRAVELLY ORGANIC elastic SILT with SAND
	GRAVELLY ORGANIC SOIL		ORGANIC SOIL
	GRAVELLY ORGANIC SOIL with SAND		ORGANIC SOIL with SAND
	GRAVELLY ORGANIC SOIL with SAND		ORGANIC SOIL with GRAVEL
	GRAVELLY ORGANIC SOIL with GRAVEL		SANDY ORGANIC SOIL
	ORGANIC SOIL with SAND		SANDY ORGANIC SOIL with GRAVEL
	ORGANIC SOIL with GRAVEL		GRAVELLY ORGANIC SOIL
	SANDY ORGANIC SOIL		GRAVELLY ORGANIC SOIL with SAND
	SANDY ORGANIC SOIL with GRAVEL		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)
(UC)	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

PREPARED BY	T. SCHAEFFER	PREPARED FOR THE STATE OF CALIFORNIA	BRIDGE NO.	28M5738	WALNUT CREEK WEST MAINTENANCE STATION
CHECKED BY	T. RIPP/A. LEHANE	DEPARTMENT OF TRANSPORTATION	POST MILE	15.6	
GS LOTB SOIL LEGEND	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 04	EA 3A0901	LOG OF TEST BORINGS 3 OF 3
			DISREGARD PRINTS BEARING EARLIER REVISION DATES	5/24/11	REVISION DATES

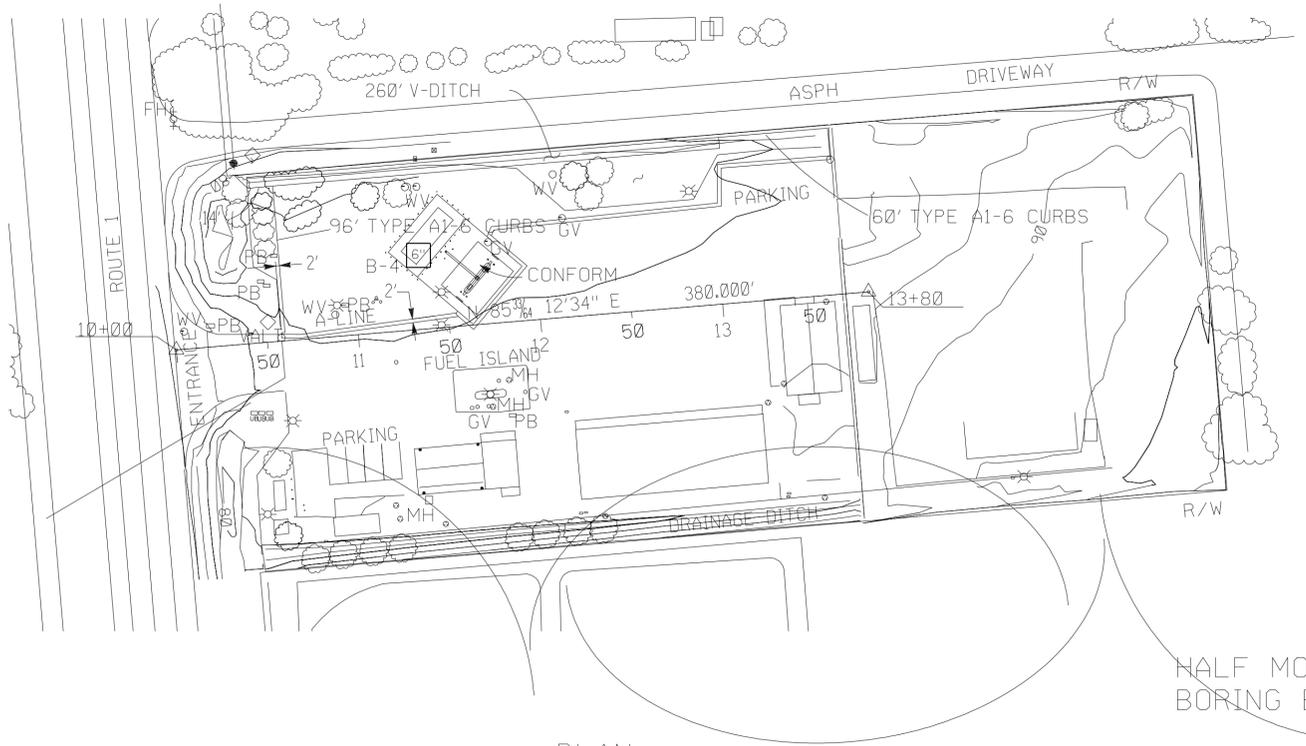
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DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Alameda, Contra Costa, San Mateo	Var	Var	Var	107	160

Andrew D. Lehane
REGISTERED CIVIL ENGINEER DATE _____
 3-7-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 ANDREW D. LEHANE
 55798
 EXP. 12-31-2010
 CIVIL
 STATE OF CALIFORNIA

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PLAN
 1" = 10'

HALF MOON BAY
 BORING B-4



PROFILE
 VERTICAL : 1"=20'

BENCHMARK: SURVEY MARKER PHMV315
 N. 347,847.936000
 E. 1,440,714.395000
 ELEV. 87.368

FUNCTIONAL SUPERVISOR NAME: T. RIPP		DRAWN BY: T. SCHAEFFER CHECKED BY: T. RIPP/A. LEHANE		FIELD INVESTIGATION BY: B. STEMPSON		PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		SHAW ENVIRONMENTAL, INC.		BRIDGE NO. 35M5710		POST MILES 26.9		HALF MOON BAY MAINTENANCE STATION LOG OF TEST BORINGS 1 OF 3			
O&S CIVIL LOG OF TEST BORINGS SHEET						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		CU 04 EA 3A0901		DISREGARD PRINTS BEARING EARLIER REVISION DATES		5/24/10		REVISION DATES		SHEET OF	

FILE => st_Log04_of_12.dgn

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Alameda	Var	Var	108	160

REGISTERED CIVIL ENGINEER DATE 3-7-11
 PLANS APPROVAL DATE 3-7-11
 55798
 EXP. 12-31-2010
 STATE OF CALIFORNIA CIVIL ENGINEER

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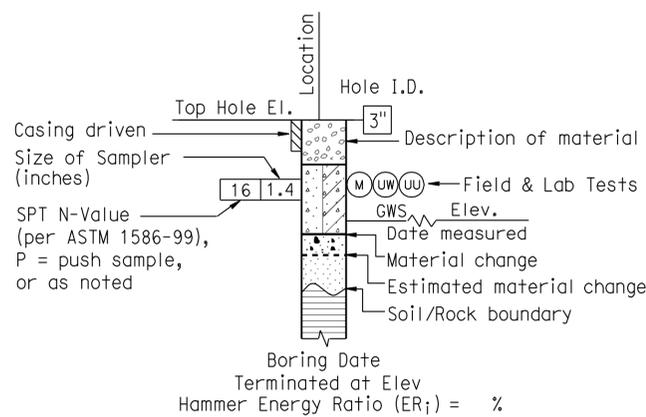
CEMENTATION	
Description	Criteria
Weak	Crumbles or breaks with handling or little finger pressure.
Moderate	Crumbles or breaks with considerable finger pressure.
Strong	Will not crumble or break with finger pressure.

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

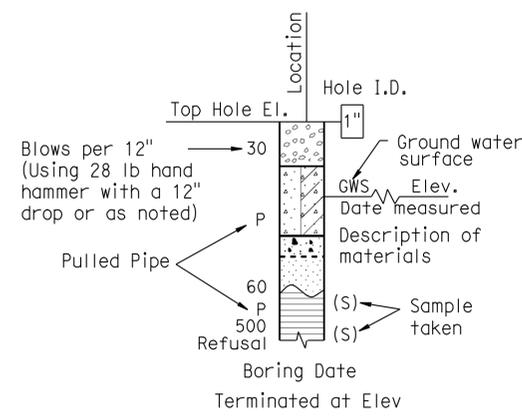
BOREHOLE IDENTIFICATION		
Symbol	Hole Type	Description
	A	Auger Boring
	R	Rotary drilled boring
	P	Rotary percussion boring (air)
	R	Rotary drilled diamond core
	HD	Hand driven (1-inch soil tube)
	HA	Hand Auger
	D	Dynamic Cone Penetration Boring
	CPT	Cone Penetration Test (ASTM D 5778-95)
	O	Other

Note: Size in inches.

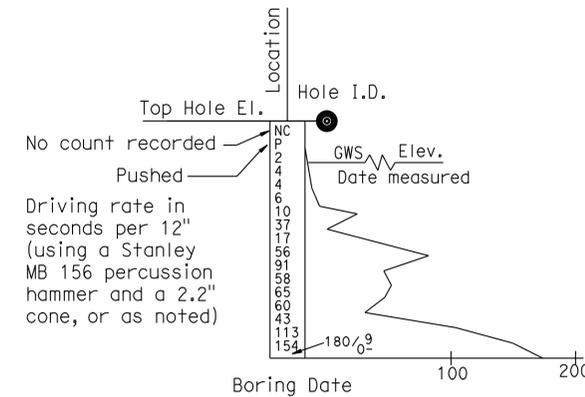
PLASTICITY OF FINE-GRAINED SOILS	
Description	Criteria
Nonplastic	A 1/8-inch thread cannot be rolled at any water content.
Low	The thread can barely be rolled and the lump cannot be formed when drier than the plastic limit.
Medium	The thread is easy to roll and not much time is required to reach the 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.



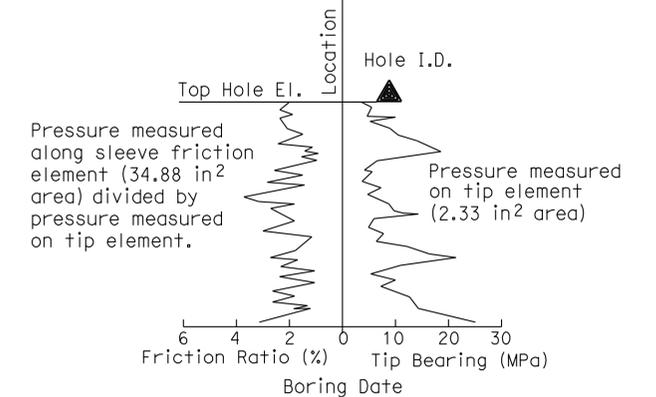
ROTARY BORING



HAND BORING



DYNAMIC CONE PENETRATION BORING



CONE PENETRATION TEST (CPT) SOUNDING

PREPARED BY	T. SCHAEFFER	PREPARED FOR THE STATE OF CALIFORNIA	BRIDGE NO.	35M5710	HALF MOON BAY MAINTENANCE STATION	
CHECKED BY	T. RIPP/A. LEHANE	DEPARTMENT OF TRANSPORTATION	POST MILE	26.9		LOG OF TEST BORINGS 2 OF 3
GS LOTB SOIL LEGEND	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 04 EA 3A0901	DISREGARD PRINTS BEARING EARLIER REVISION DATES	5/24/10	REVISION DATES	SHEET OF

FILE => sf_Log05_of_12.dgn

USERNAME => f11engard DATE PLOTTED => 15-MAR-2011 TIME PLOTTED => 10:03

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Alameda	Var	Var	109	160

REGISTERED CIVIL ENGINEER DATE 3-7-11
 PLANS APPROVAL DATE 55798
 EXP. 12-31-2010
 ANDREW D. LEHANE
 CIVIL ENGINEER
 STATE OF CALIFORNIA

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GROUP SYMBOLS AND NAMES			
Graphic/Symbol	Group Names	Graphic/Symbol	Group Names
	Well-graded GRAVEL		Lean CLAY
	Well-graded GRAVEL with SAND		Lean CLAY with SAND
	Poorly graded GRAVEL		SANDY lean CLAY
	Poorly graded GRAVEL with SAND		GRAVELLY lean CLAY
	Well-graded GRAVEL with SILT		SILTY CLAY
	Well-graded GRAVEL with SILT and SAND		SILTY CLAY with SAND
	Well-graded GRAVEL with CLAY (or SILTY CLAY)		SANDY SILTY CLAY
	Well-graded GRAVEL with CLAY and SAND (or SILTY CLAY and SAND)		GRAVELLY SILTY CLAY
	Poorly graded GRAVEL with SILT		SILTY CLAY with GRAVEL
	Poorly graded GRAVEL with SILT and SAND		SANDY SILTY CLAY with GRAVEL
	Poorly graded GRAVEL with CLAY (or SILTY CLAY)		GRAVELLY SILTY CLAY
	Poorly graded GRAVEL with CLAY and SAND (or SILTY CLAY and SAND)		GRAVELLY SILTY CLAY with SAND
	SILTY GRAVEL		SILT
	SILTY GRAVEL with SAND		SILT with SAND
	CLAYEY GRAVEL		SILT with GRAVEL
	CLAYEY GRAVEL with SAND		SANDY SILT
	SILTY, CLAYEY GRAVEL		SANDY SILT with GRAVEL
	SILTY, CLAYEY GRAVEL with SAND		GRAVELLY SILT
	Well-graded SAND		GRAVELLY SILT with SAND
	Well-graded SAND with GRAVEL		ORGANIC lean CLAY
	Poorly graded SAND		ORGANIC lean CLAY with SAND
	Poorly graded SAND with GRAVEL		ORGANIC lean CLAY with GRAVEL
	Well-graded SAND with SILT		SANDY ORGANIC lean CLAY
	Well-graded SAND with SILT and GRAVEL		SANDY ORGANIC lean CLAY with GRAVEL
	Well-graded SAND with CLAY (or SILTY CLAY)		GRAVELLY ORGANIC lean CLAY
	Well-graded SAND with CLAY and GRAVEL (or SILTY CLAY and GRAVEL)		GRAVELLY ORGANIC lean CLAY with SAND
	Poorly graded SAND with SILT		ORGANIC SILT
	Poorly graded SAND with SILT and GRAVEL		ORGANIC SILT with SAND
	Poorly graded SAND with CLAY (or SILTY CLAY)		ORGANIC SILT with GRAVEL
	Poorly graded SAND with CLAY and GRAVEL (or SILTY CLAY and GRAVEL)		SANDY ORGANIC SILT
	SILTY SAND		SANDY ORGANIC SILT with GRAVEL
	SILTY SAND with GRAVEL		GRAVELLY ORGANIC SILT
	CLAYEY SAND		GRAVELLY ORGANIC SILT with SAND
	CLAYEY SAND with GRAVEL		Fat CLAY
	SILTY, CLAYEY SAND		Fat CLAY with SAND
	SILTY, CLAYEY SAND with GRAVEL		Fat CLAY with GRAVEL
	PEAT		SANDY fat CLAY
	COBBLES		SANDY fat CLAY with GRAVEL
	COBBLES and BOULDERS		GRAVELLY fat CLAY
	BOULDERS		GRAVELLY fat CLAY with SAND
	ORGANIC SOIL		Elastic SILT
	ORGANIC SOIL with SAND		Elastic SILT with SAND
	ORGANIC SOIL with GRAVEL		Elastic SILT with GRAVEL
	SANDY ORGANIC SOIL		SANDY elastic SILT
	SANDY ORGANIC SOIL		SANDY elastic SILT with GRAVEL
	SANDY ORGANIC SOIL with GRAVEL		GRAVELLY elastic SILT
	GRAVELLY ORGANIC SOIL		GRAVELLY elastic SILT with SAND
	GRAVELLY ORGANIC SOIL with SAND		ORGANIC fat CLAY
	ORGANIC SOIL with SAND		ORGANIC fat CLAY with SAND
	ORGANIC SOIL with GRAVEL		ORGANIC fat CLAY with GRAVEL
	SANDY ORGANIC SOIL		SANDY ORGANIC fat CLAY
	SANDY ORGANIC SOIL with GRAVEL		SANDY ORGANIC fat CLAY with GRAVEL
	GRAVELLY ORGANIC SOIL		GRAVELLY ORGANIC fat CLAY
	GRAVELLY ORGANIC SOIL with SAND		GRAVELLY ORGANIC fat CLAY 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)
(UU)	Unconfined Compression-Rock (ASTM D 2938)
(UW)	Unit Weight (ASTM D 4767)
(VS)	Vane Shear (AASHTO T 223)

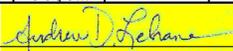
APPARENT DENSITY OF COHESIONLESS SOILS	
Description	SPT N ₆₀ (Blows / 12 inches)
Very loose	0 - 4
Loose	5 - 10
Medium Dense	11 - 30
Dense	31 - 50
Very Dense	> 50

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%

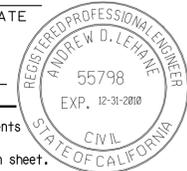
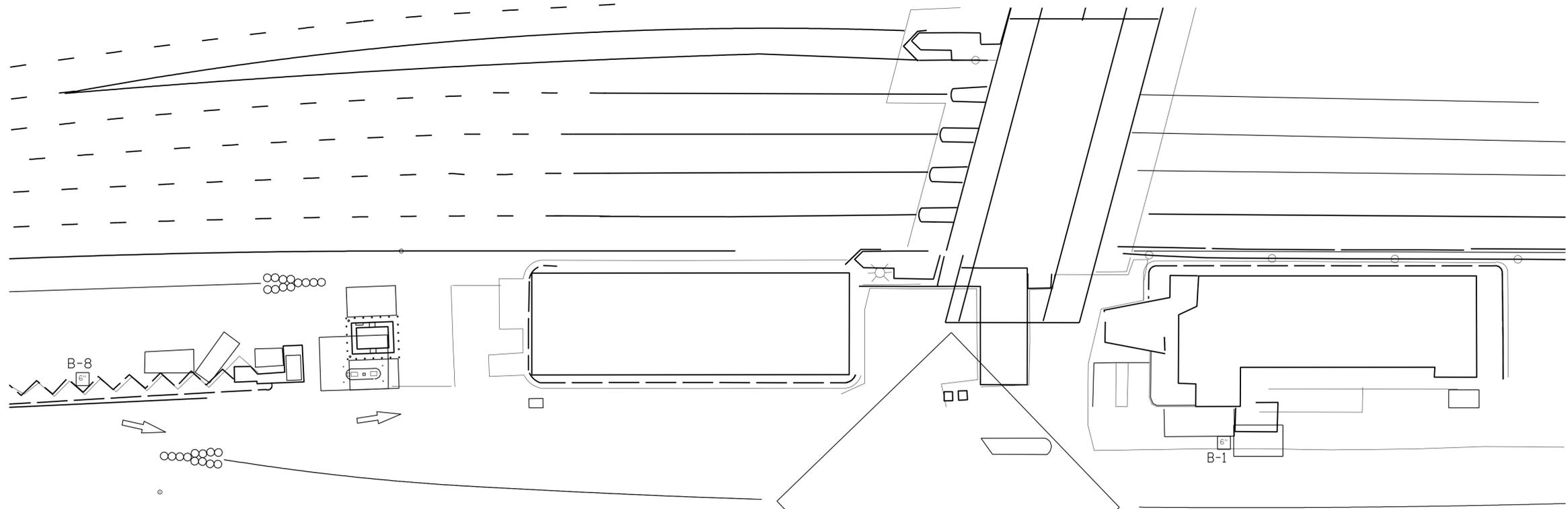
PARTICLE SIZE		
Description	Size	
Boulder	> 12"	
Cobble	3" to 12"	
Gravel	Coarse	3/4" to 3"
	Fine	No. 4 to 3/4"
Sand	Coarse	No. 10 to No. 4
	Medium	No. 40 to No. 10
	Fine	No. 200 to No. 40

DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST SHEET No	TOTAL SHEETS
04	Alameda	Var	Var	110	160


REGISTERED CIVIL ENGINEER DATE _____
 3-7-11
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).

PLAN
1" = 25'

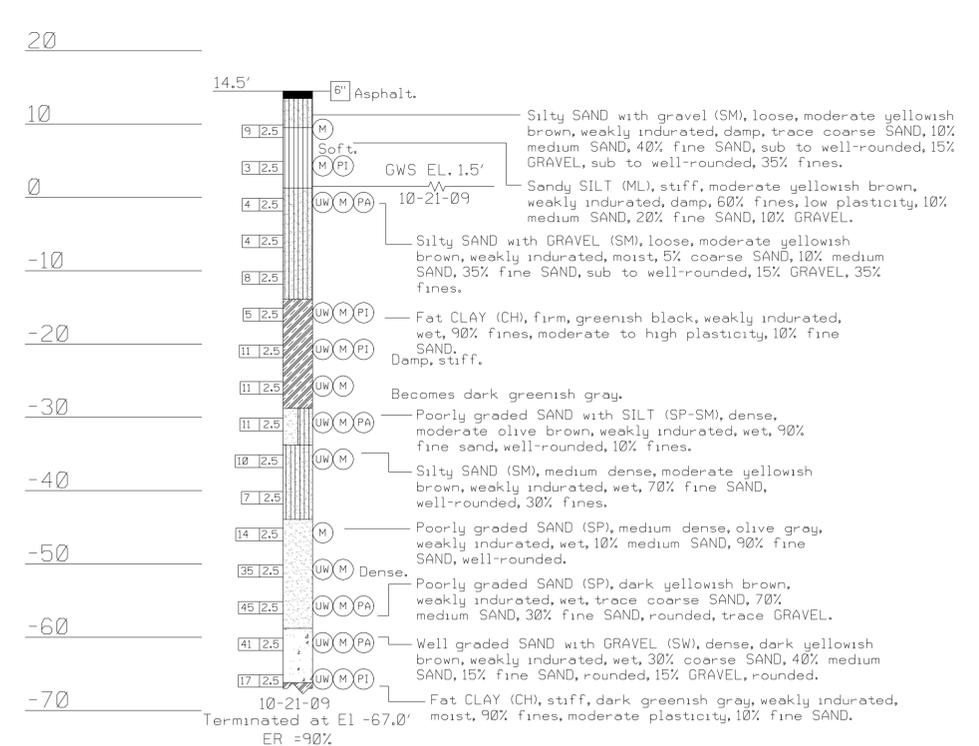
BENCHMARK: SURVEY MARKER SUHV102
 N. 411,112.955000
 E. 1,521,350.236000
 ELEV. 14.280

HAYWARD BORING B-8



PROFILE
 VERTICAL SCALE: 1"=20'
 HORIZONTAL SCALE: 1"=30'

HAYWARD BORING B-1



FUNCTIONAL SUPERVISOR NAME: T. RIPP		DRAWN BY: T. SCHAEFFER CHECKED BY: T. RIPP/A. LEHANE		FIELD INVESTIGATION BY: B. STEMPSON		PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		BRIDGE NO. 350054 POST MILES 2.6		SAN MATEO - HAYWARD BRIDGE MAINTENANCE STATION LOG OF TEST BORINGS 1 OF 3	
065 CIVIL LOG OF TEST BORINGS SHEET						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3		CU 04 EA 3A0901 FILE => st_Log07_of_12.dgn		DISREGARD PRINTS BEARING EARLIER REVISION DATES 5/24/11	

DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST PROJECT	SHEET No	TOTAL SHEETS
04	Alameda	Var	Var	Var	111	160

REGISTERED CIVIL ENGINEER DATE 3-7-11
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 ANDREW D. LEHANE
 55798
 EXP. 12-31-2010
 CIVIL
 STATE OF CALIFORNIA

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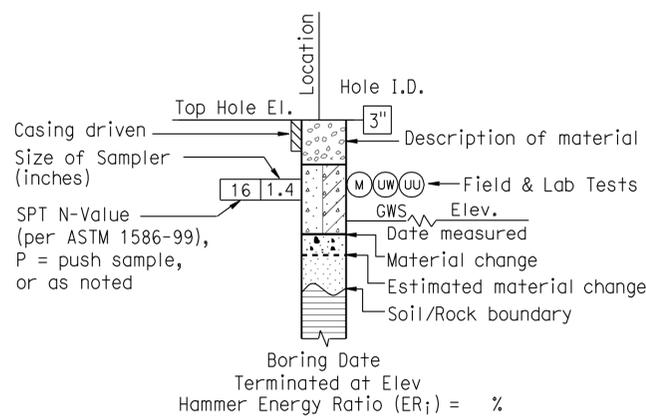
CEMENTATION	
Description	Criteria
Weak	Crumbles or breaks with handling or little finger pressure.
Moderate	Crumbles or breaks with considerable finger pressure.
Strong	Will not crumble or break with finger pressure.

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

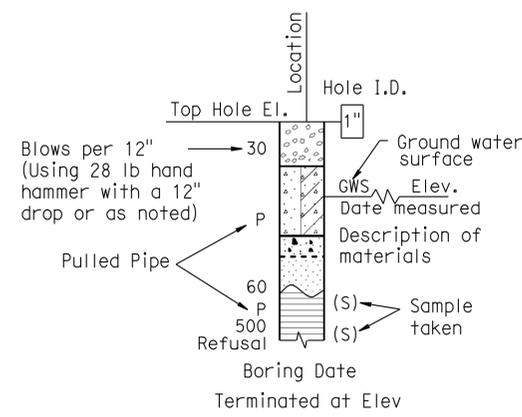
BOREHOLE IDENTIFICATION		
Symbol	Hole Type	Description
	A	Auger Boring
	R	Rotary drilled boring
	P	Rotary percussion boring (air)
	R	Rotary drilled diamond core
	HD	Hand driven (1-inch soil tube)
	HA	Hand Auger
	D	Dynamic Cone Penetration Boring
	CPT	Cone Penetration Test (ASTM D 5778-95)
	O	Other

Note: Size in inches.

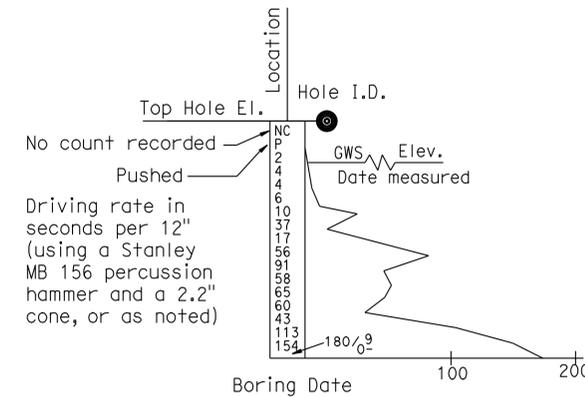
PLASTICITY OF FINE-GRAINED SOILS	
Description	Criteria
Nonplastic	A 1/8-inch thread cannot be rolled at any water content.
Low	The thread can barely be rolled and the lump cannot be formed when drier than the plastic limit.
Medium	The thread is easy to roll and not much time is required to reach the 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.



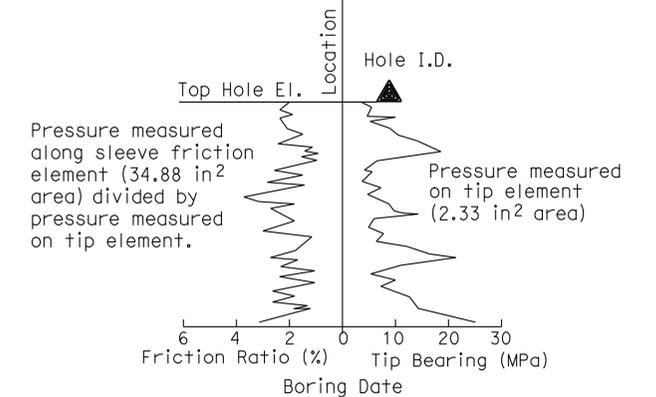
ROTARY BORING



HAND BORING



DYNAMIC CONE PENETRATION BORING



CONE PENETRATION TEST (CPT) SOUNDING

PREPARED BY	T. SCHAEFFER	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	350054	SAN MATEO-HAYWARD BRIDGE MAINTENANCE STATION
CHECKED BY	T. RIPP/A. LEHANE		POST MILE	2.6	
GS LOTB SOIL LEGEND		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 04 EA 3A0901	DISREGARD PRINTS BEARING EARLIER REVISION DATES	5/24/10

FILE => sf_Log08_of_12.dgn

USERNAME => f11engard DATE PLOTTED => 15-MAR-2011 TIME PLOTTED => 11:17

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Alameda	Var	Var	112	160


 REGISTERED CIVIL ENGINEER DATE 3-7-11
 PLANS APPROVAL DATE 3-7-11
 55798
 EXP. 12-31-2010
 REGISTERED PROFESSIONAL ENGINEER ANDREW D. LEHANE CIVIL STATE OF CALIFORNIA
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GROUP SYMBOLS AND NAMES			
Graphic/Symbol	Group Names	Graphic/Symbol	Group Names
	Well-graded GRAVEL		Lean CLAY
	Well-graded GRAVEL with SAND		Lean CLAY with SAND
	Poorly graded GRAVEL		Lean CLAY with GRAVEL
	Poorly graded GRAVEL with SAND		SANDY lean CLAY
	Well-graded GRAVEL with SILT		SANDY lean CLAY with GRAVEL
	Well-graded GRAVEL with SILT and SAND		GRAVELLY lean CLAY
	Well-graded GRAVEL with CLAY (or SILTY CLAY)		GRAVELLY lean CLAY with SAND
	Well-graded GRAVEL with CLAY and SAND (or SILTY CLAY and SAND)		SILTY CLAY
	Poorly graded GRAVEL with SILT		SILTY CLAY with SAND
	Poorly graded GRAVEL with SILT and SAND		SILTY CLAY with GRAVEL
	Poorly graded GRAVEL with CLAY (or SILTY CLAY)		SANDY SILTY CLAY
	Poorly graded GRAVEL with CLAY and SAND (or SILTY CLAY and SAND)		SANDY SILTY CLAY with GRAVEL
	SILTY GRAVEL		GRAVELLY SILTY CLAY
	SILTY GRAVEL with SAND		GRAVELLY SILTY CLAY with SAND
	CLAYEY GRAVEL		SILT
	CLAYEY GRAVEL with SAND		SILT with SAND
	SILTY, CLAYEY GRAVEL		SILT with GRAVEL
	SILTY, CLAYEY GRAVEL with SAND		SANDY SILT
	Well-graded SAND		SANDY SILT with GRAVEL
	Well-graded SAND with GRAVEL		GRAVELLY SILT
	Poorly graded SAND		GRAVELLY SILT with SAND
	Poorly graded SAND with GRAVEL		ORGANIC lean CLAY
	Well-graded SAND with SILT		ORGANIC lean CLAY with SAND
	Well-graded SAND with SILT and GRAVEL		ORGANIC lean CLAY with GRAVEL
	Well-graded SAND with CLAY (or SILTY CLAY)		SANDY ORGANIC lean CLAY
	Well-graded SAND with CLAY and GRAVEL (or SILTY CLAY and GRAVEL)		SANDY ORGANIC lean CLAY with GRAVEL
	Poorly graded SAND with SILT		GRAVELLY ORGANIC lean CLAY
	Poorly graded SAND with SILT and GRAVEL		GRAVELLY ORGANIC lean CLAY with SAND
	Poorly graded SAND with CLAY (or SILTY CLAY)		ORGANIC SILT
	Poorly graded SAND with CLAY and GRAVEL (or SILTY CLAY and GRAVEL)		ORGANIC SILT with SAND
	SILTY SAND		ORGANIC SILT with GRAVEL
	SILTY SAND with GRAVEL		SANDY ORGANIC SILT
	CLAYEY SAND		SANDY ORGANIC SILT with GRAVEL
	CLAYEY SAND with GRAVEL		GRAVELLY ORGANIC SILT
	SILTY, CLAYEY SAND		GRAVELLY ORGANIC SILT with SAND
	SILTY, CLAYEY SAND with GRAVEL		ORGANIC fat CLAY
	PEAT		ORGANIC fat CLAY with SAND
	COBBLES		ORGANIC fat CLAY with GRAVEL
	COBBLES and BOULDERS		SANDY ORGANIC fat CLAY
	BOULDERS		SANDY ORGANIC fat CLAY with GRAVEL
			GRAVELLY ORGANIC fat CLAY
			GRAVELLY ORGANIC fat CLAY 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)
(UU)	Unconfined Compression-Rock (ASTM D 2938)
(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%

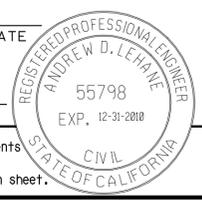
PARTICLE SIZE		
Description	Size	
Boulder	> 12"	
Cobble	3" to 12"	
Gravel	Coarse	3/4" to 3"
	Fine	No. 4 to 3/4"
Sand	Coarse	No. 10 to No. 4
	Medium	No. 40 to No. 10
	Fine	No. 200 to No. 40

PREPARED BY T. SCHAEFFER CHECKED BY T. RIPP/A. LEHANE	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	SHAW ENVIRONMENTAL, INC.	BRIDGE NO. 350054 POST MILE 2.6	SAN MATEO - HAYWARD BRIDGE MAINTENANCE STATION LOG OF TEST BORINGS 3 OF 3	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 112 OF 160
GS LOTB SOIL LEGEND	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 04 EA 3A0901	FILE => st_Log09_of_12.dgn	5/24/10			

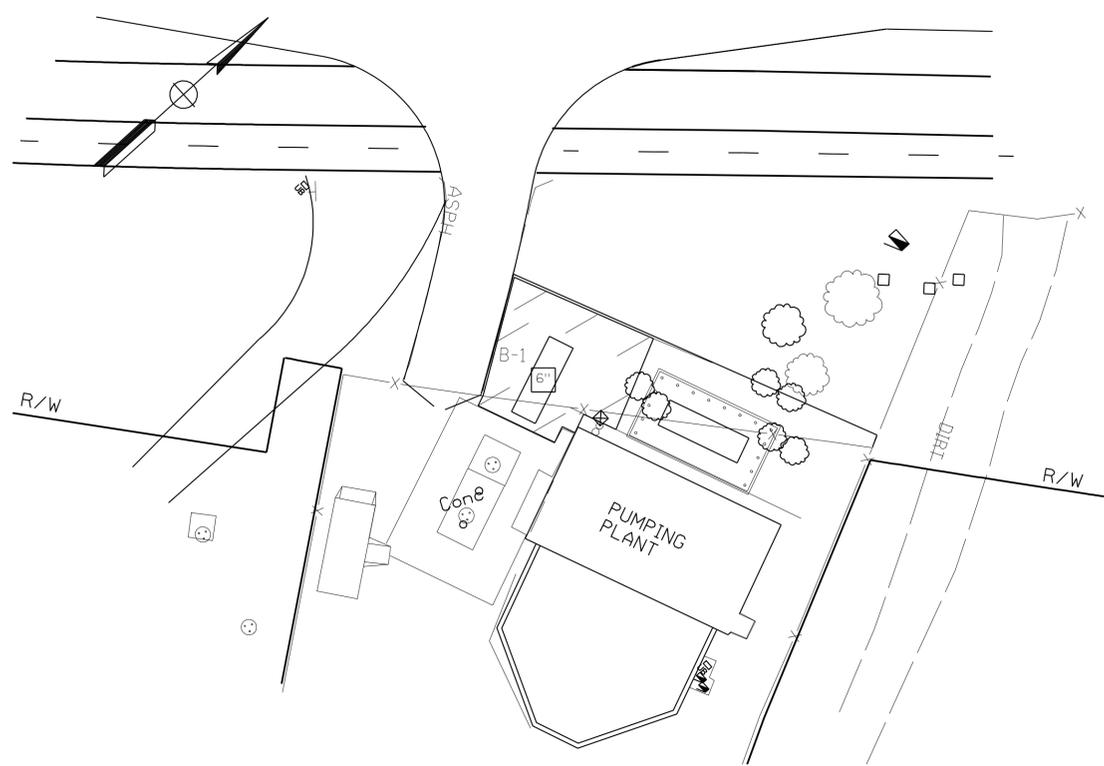
USERNAME => H11engard DATE PLOTTED => 15-MAR-2011 TIME PLOTTED => 10:03

DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST PROJECT	SHEET No	TOTAL SHEETS
04	Alameda	Var	Var	Var	113	160


 REGISTERED CIVIL ENGINEER DATE _____
 3-7-11
 PLANS APPROVAL DATE _____
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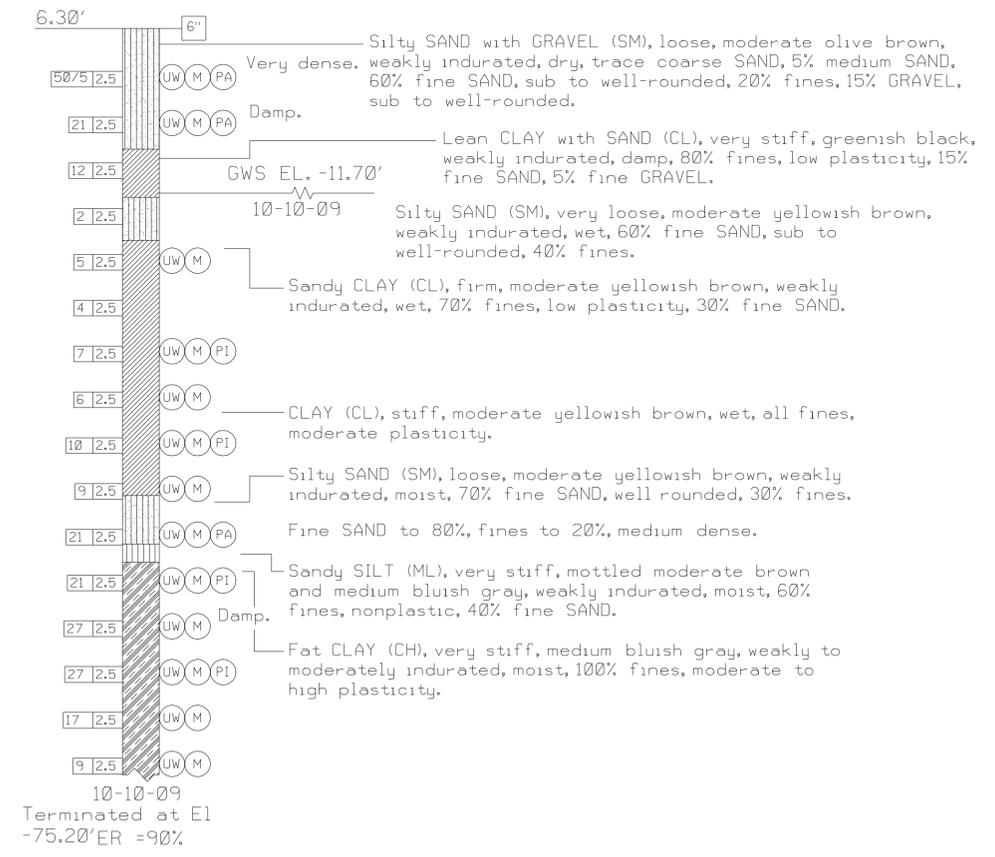
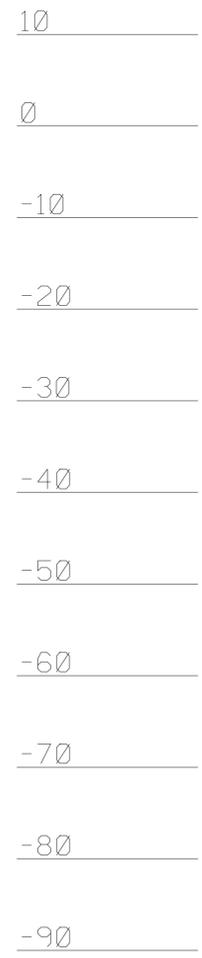
This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, & Presentation Manual (June 2007).



PLAN
1" = 20'

BENCHMARK: NW PUMPING STATION BUILDING CORNER
 N. 2,002,827.687250
 E. 6,084,411.046377
 ELEV. 6.312

RAVENSWOOD BORING B-1



PROFILE

VERTICAL SCALE: 1" = 20'

FUNCTIONAL SUPERVISOR NAME: T. RIPP		DRAWN BY: T. SCHAEFFER CHECKED BY: T. RIPP/A. LEHANE		FIELD INVESTIGATION BY: B. STEMPSON		PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		SHAW ENVIRONMENTAL, INC.		BRIDGE NO. 350292W POST MILES 28.0		RAVENSWOOD PUMPING PLANT LOG OF TEST BORINGS 1 OF 3			
O&S CIVIL LOG OF TEST BORINGS SHEET						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		CU 04 EA 3A0901		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES			
						0 1 2 3		FILE => st_Log10_of_12.dgn		5/24/11					

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Alameda	Var	Var	114	160

REGISTERED CIVIL ENGINEER ANDREW D. LEHANE
 DATE 3-7-11
 PLANS APPROVAL DATE

55798
 EXP. 12-31-2010

STATE OF CALIFORNIA CIVIL ENGINEER

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.

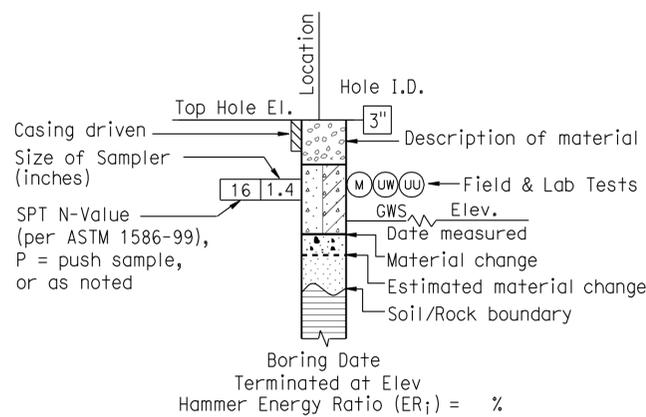
CEMENTATION	
Description	Criteria
Weak	Crumbles or breaks with handling or little finger pressure.
Moderate	Crumbles or breaks with considerable finger pressure.
Strong	Will not crumble or break with finger pressure.

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

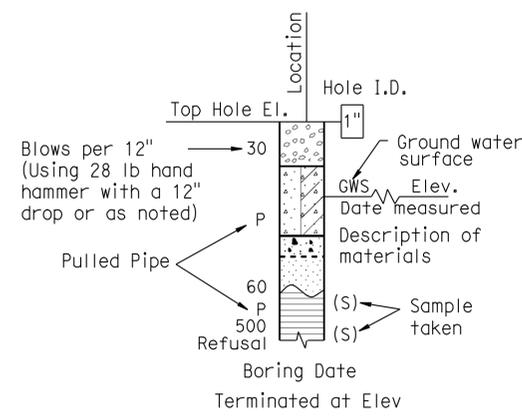
BOREHOLE IDENTIFICATION		
Symbol	Hole Type	Description
[Size] A	A	Auger Boring
[Size] R	R	Rotary drilled boring
[Size] P	P	Rotary percussion boring (air)
[Size] R	R	Rotary drilled diamond core
[Size] HD	HD	Hand driven (1-inch soil tube)
[Size] HA	HA	Hand Auger
●	D	Dynamic Cone Penetration Boring
▲	CPT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

Note: Size in inches.

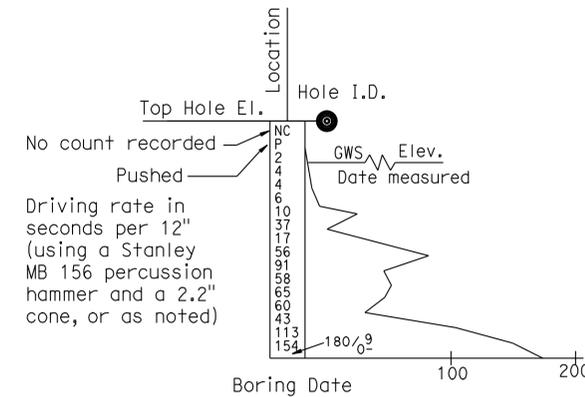
PLASTICITY OF FINE-GRAINED SOILS	
Description	Criteria
Nonplastic	A 1/8-inch thread cannot be rolled at any water content.
Low	The thread can barely be rolled and the lump cannot be formed when drier than the plastic limit.
Medium	The thread is easy to roll and not much time is required to reach the 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.



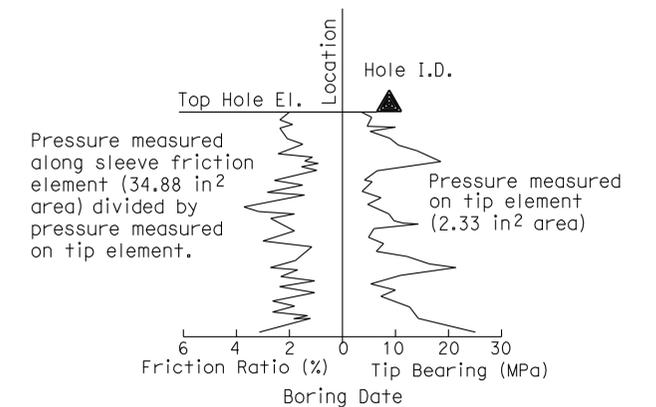
ROTARY BORING



HAND BORING



DYNAMIC CONE PENETRATION BORING



CONE PENETRATION TEST (CPT) SOUNDING

PREPARED BY	T. SCHAEFFER	PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	350292W	RAVENSWOOD PUMPING PLANT
CHECKED BY	T. RIPP/A. LEHANE		POST MILE	28.0	
GS LOTB SOIL LEGEND	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 04 EA 3A0901	DISREGARD PRINTS BEARING EARLIER REVISION DATES	5/24/10	REVISION DATES

FILE => st_Log11_of_12.dgn

USERNAME => h11engard DATE PLOTTED => 15-MAR-2011 TIME PLOTTED => 10:04

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	Alameda	Var	Var	115	160

REGISTERED CIVIL ENGINEER
 Andrew D. Lehane
 DATE: 3-7-11
 PLANS APPROVAL DATE: 3-7-11
 EXP. 12-31-2010
 55798
 CIVIL
 STATE OF CALIFORNIA

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GROUP SYMBOLS AND NAMES			
Graphic/Symbol	Group Names	Graphic/Symbol	Group Names
	Well-graded GRAVEL		Lean CLAY
	Well-graded GRAVEL with SAND		Lean CLAY with SAND
	Poorly graded GRAVEL		Lean CLAY with GRAVEL
	Poorly graded GRAVEL with SAND		SANDY lean CLAY
	Well-graded GRAVEL with SILT		GRAVELLY lean CLAY
	Well-graded GRAVEL with SILT and SAND		GRAVELLY lean CLAY with SAND
	Well-graded GRAVEL with CLAY (or SILTY CLAY)		SILTY CLAY
	Well-graded GRAVEL with CLAY and SAND (or SILTY CLAY and SAND)		SILTY CLAY with SAND
	Poorly graded GRAVEL with SILT		SILTY CLAY with GRAVEL
	Poorly graded GRAVEL with SILT and SAND		SANDY SILTY CLAY
	Poorly graded GRAVEL with CLAY (or SILTY CLAY)		SANDY SILTY CLAY with GRAVEL
	Poorly graded GRAVEL with CLAY and SAND (or SILTY CLAY and SAND)		GRAVELLY SILTY CLAY
	SILTY GRAVEL		GRAVELLY SILTY CLAY with SAND
	SILTY GRAVEL with SAND		ORGANIC lean CLAY
	CLAYEY GRAVEL		ORGANIC lean CLAY with SAND
	CLAYEY GRAVEL with SAND		ORGANIC lean CLAY with GRAVEL
	SILTY, CLAYEY GRAVEL		SANDY ORGANIC lean CLAY
	SILTY, CLAYEY GRAVEL with SAND		SANDY ORGANIC lean CLAY with GRAVEL
	Well-graded SAND		GRAVELLY ORGANIC lean CLAY
	Well-graded SAND with GRAVEL		GRAVELLY ORGANIC lean CLAY with SAND
	Poorly graded SAND		Fat CLAY
	Poorly graded SAND with GRAVEL		Fat CLAY with SAND
	Well-graded SAND with SILT		Fat CLAY with GRAVEL
	Well-graded SAND with SILT and GRAVEL		SANDY fat CLAY
	Well-graded SAND with CLAY (or SILTY CLAY)		SANDY fat CLAY with GRAVEL
	Well-graded SAND with CLAY and GRAVEL (or SILTY CLAY and GRAVEL)		GRAVELLY fat CLAY
	Poorly graded SAND with SILT		GRAVELLY fat CLAY with SAND
	Poorly graded SAND with SILT and GRAVEL		Elastic SILT
	Poorly graded SAND with CLAY (or SILTY CLAY)		Elastic SILT with SAND
	Poorly graded SAND with CLAY and GRAVEL (or SILTY CLAY and GRAVEL)		Elastic SILT with GRAVEL
	SILTY SAND		SANDY elastic SILT
	SILTY SAND with GRAVEL		SANDY elastic SILT with GRAVEL
	CLAYEY SAND		GRAVELLY elastic SILT
	CLAYEY SAND with GRAVEL		GRAVELLY elastic SILT with SAND
	SILTY, CLAYEY SAND		ORGANIC fat CLAY
	SILTY, CLAYEY SAND with GRAVEL		ORGANIC fat CLAY with SAND
	PEAT		ORGANIC fat CLAY with GRAVEL
	COBBLES		SANDY ORGANIC fat CLAY
	COBBLES and BOULDERS		GRAVELLY ORGANIC fat CLAY
			GRAVELLY ORGANIC fat CLAY with SAND
			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
			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)
(UC)	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

PREPARED BY: T. SCHAEFFER	PREPARED FOR THE STATE OF CALIFORNIA	BRIDGE NO. 350292W	RAVENSWOOD PUMPING PLANT
CHECKED BY: T. RIPP/A. LEHANE	DEPARTMENT OF TRANSPORTATION	POST MILE 28.0	
GS LOTB SOIL LEGEND	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 04 EA 3A0901	LOG OF TEST BORINGS 3 OF 3
		DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES
		0 1 2 3	5/24/11

FILE => st_Log12_of_12.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Alameda, Contra Costa, San Mateo	Var	Var	116	160

Tom H. Hatam 04-13-10
 REGISTERED ENGINEER-MECHANICAL

REGISTERED PROFESSIONAL ENGINEER
 TOM H. HATAM
 No. M33666
 Exp. 6-30-11
 MECH
 STATE OF CALIFORNIA

3-7-11
PLANS APPROVAL DATE

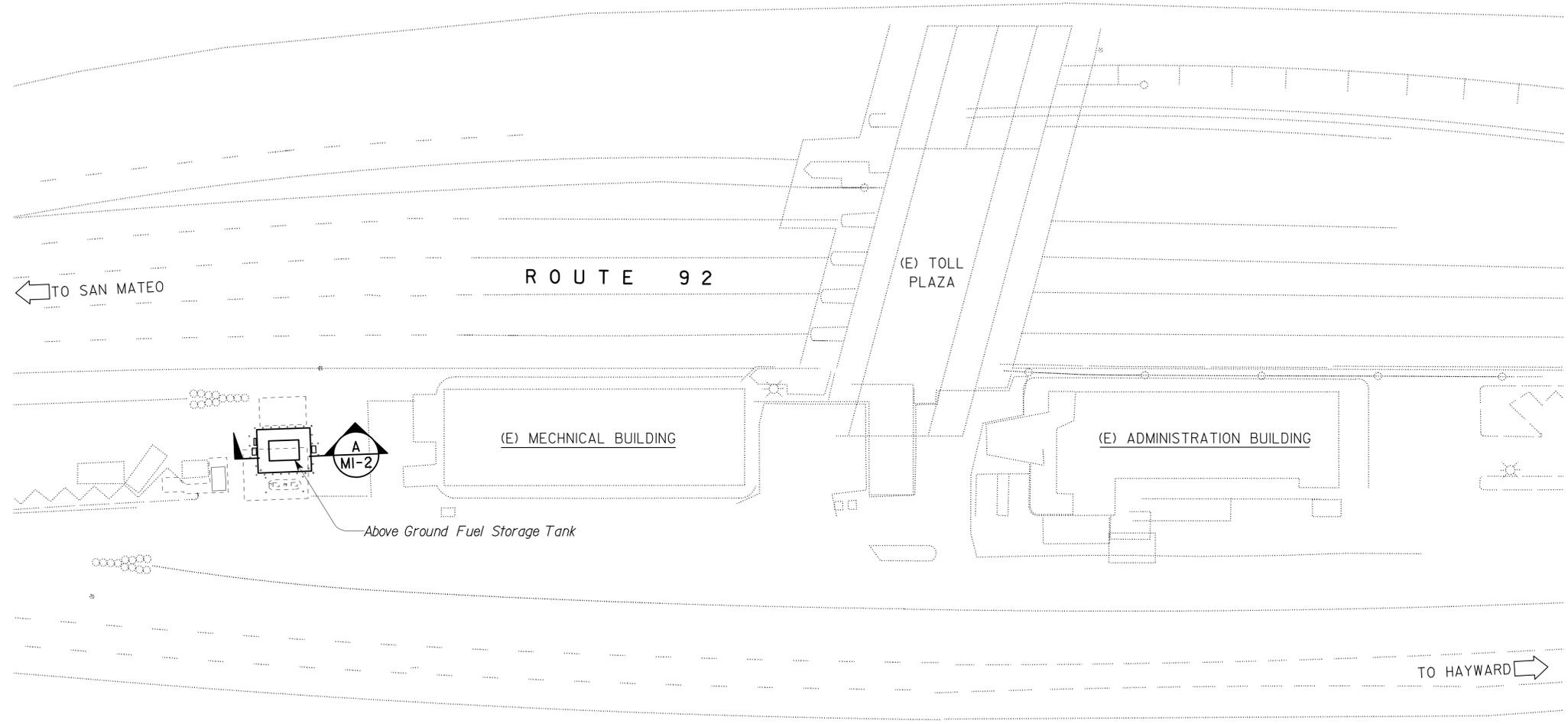
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CALIFORNIA STATE FIRE MARSHAL APPROVED

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

Reviewed by: *Jason D. DeWitt*
 JASON D. DeWITT
 Approval date: 07-13-10

15-41-II.0056



- ABBREVIATIONS:**
- ∅ DIAMETER
 - (E) EXISTING
 - GPM GALLONS PER MINUTE
 - HP HORSEPOWER
 - MIN MINIMUM
 - R/W RIGHT-OF-WAY
 - TS TUBE STEEL
 - TYP TYPICAL

PARTIAL SITE PLAN

SCALE: 1" = 30'-0"



THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

DS OSD 2139A (4/89) FILE NO.:	FILE => m1_1.dgn DATE PLOTTED => 11-MAR-2011 TIME PLOTTED => 13:52	DESIGN BY <i>Tom Hatam</i>	CHECKED <i>Mark Hedglin</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 350054	DISTRICT 4 VARIOUS FUEL CANOPIES	SHEET M1-1
		DETAILS BY <i>Rudy Sarte</i>	CHECKED <i>Tom Hatam</i>			POST MILE 2.6		
		QUANTITIES BY <i>Tom Hatam</i>	CHECKED <i>Mark Hedglin</i>			MECHANICAL SITE PLAN		REVISION DATES (PRELIMINARY STAGE ONLY) 06-22-09 08-24-09 04-02-10 04-13-10

3A0901

V1=1

USERNAME => HP0115 DATE PLOTTED => 11-MAR-2011 TIME PLOTTED => 13:52

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Alameda, Contra Costa, San Mateo	Var	Var	117	160

Tom H. Hatam 04-13-10
 REGISTERED ENGINEER-MECHANICAL

3-7-11
 PLANS APPROVAL DATE

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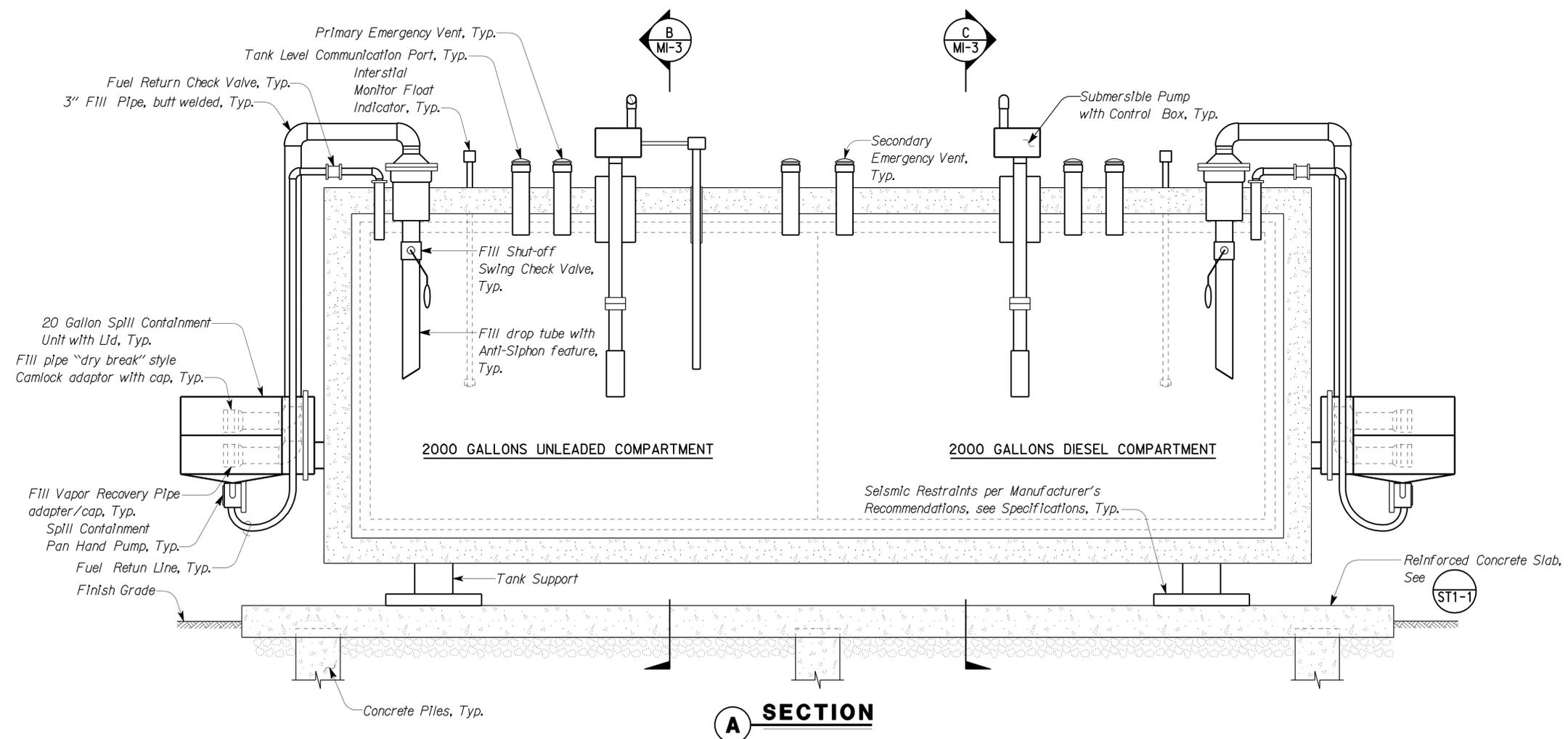
- Notes:
1. Provide "No Smoking within 25 feet" signs per Cal OSHA requirements.
 2. Provide adequate Pipe Supports for fuel pipe risers at the Tank.
 3. For Electrical Connections, see Electrical Sheets.
 4. Submersible Pump shall be 3/4 HP, 240 Volts, Single Phase and shall deliver 15 GPM at 15' of head.
 5. Place 4" Free Draining Granular Material under slab.

CALIFORNIA STATE FIRE MARSHAL APPROVED

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Reviewed by: *[Signature]*
 JASON D. DeWITT
 Approval date: 07-13-10

15-41-II.0056



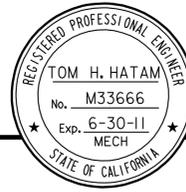
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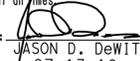
NO SCALE

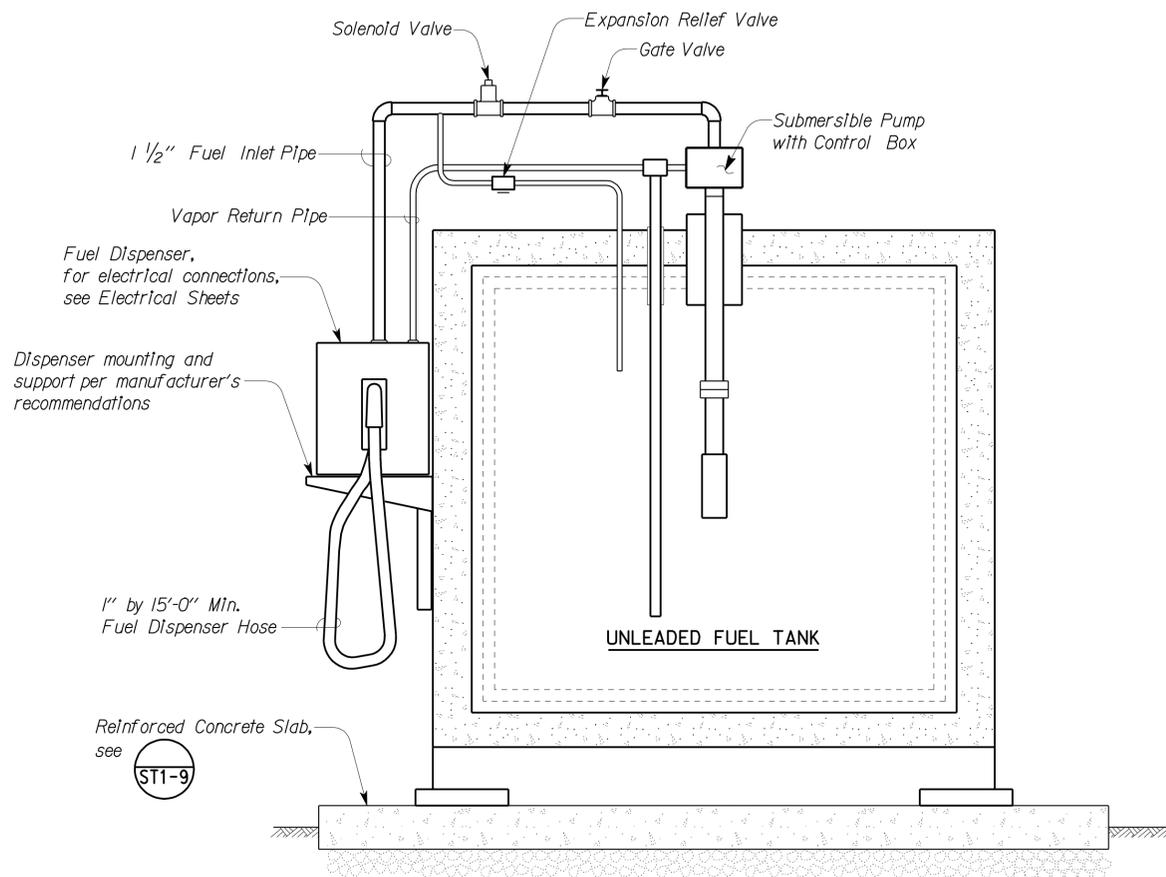
DS OSD 2139A (4/89) FILE NO.:	DESIGN	BY Tom Hatam	CHECKED Mark Hedglin	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	350054	DISTRICT 4 VARIOUS FUEL CANOPIES SAN MATEO-HAYWARD M.S.	SHEET M1-2 OF	
	DETAILS	BY Rudy Sarte	CHECKED Tom Hatam			POST MILE	2.6			ABOVE GROUND FUEL STORAGE TANK I
	QUANTITIES	BY Tom Hatam	CHECKED Mark Hedglin			UNIT PROJECT NUMBER & PHASE	0702 04000009271			

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3
 DISREGARD PRINTS BEARING EARLIER REVISION DATES

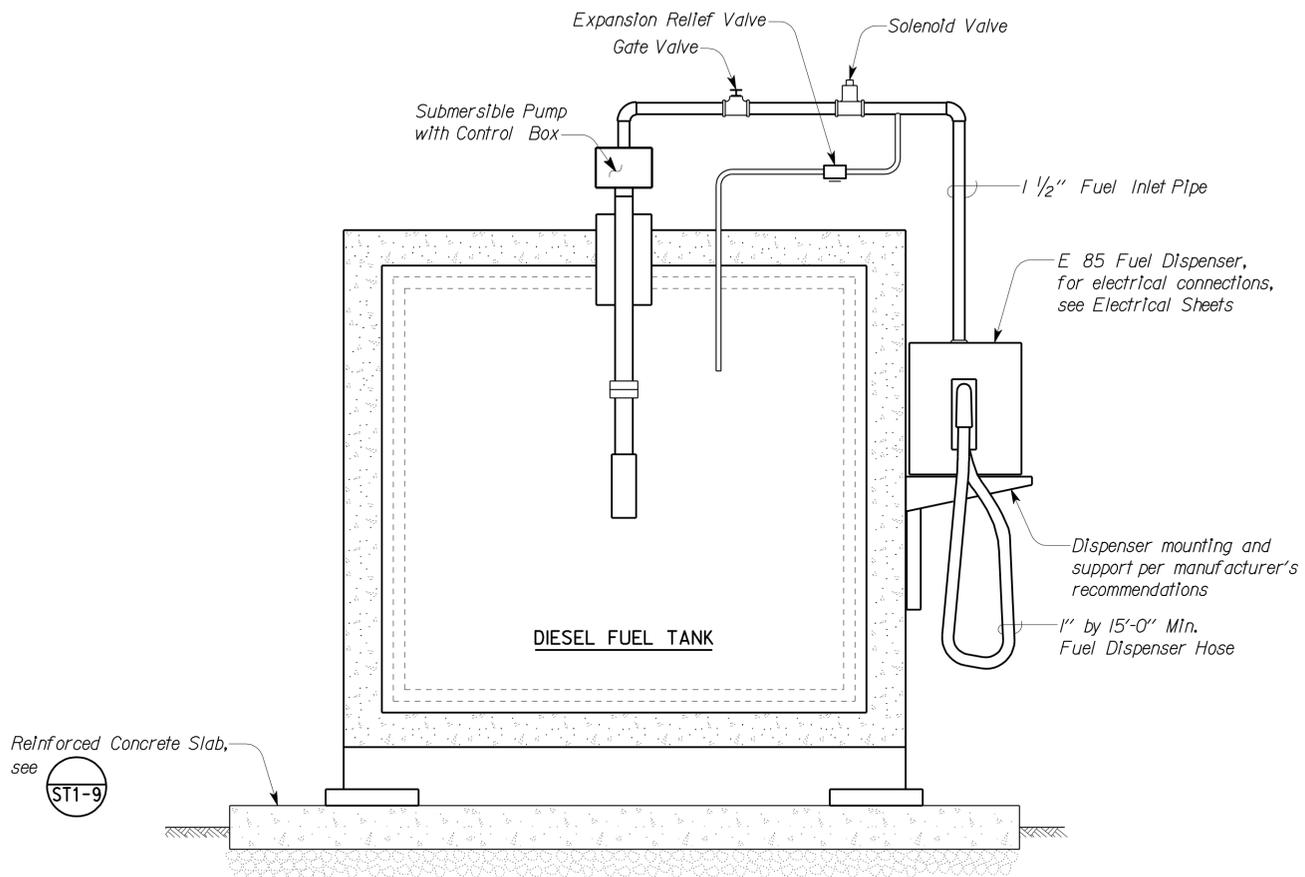
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Alameda, Contra Costa, San Mateo	Var	Var	118	160
 REGISTERED ENGINEER-MECHANICAL 04-13-10					
3-7-11					
PLANS APPROVAL DATE					
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CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: 
 JASON D. DeWITT
 Approval date: 07-13-10
 15-41-II.0056



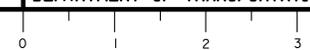
B SECTION



C SECTION

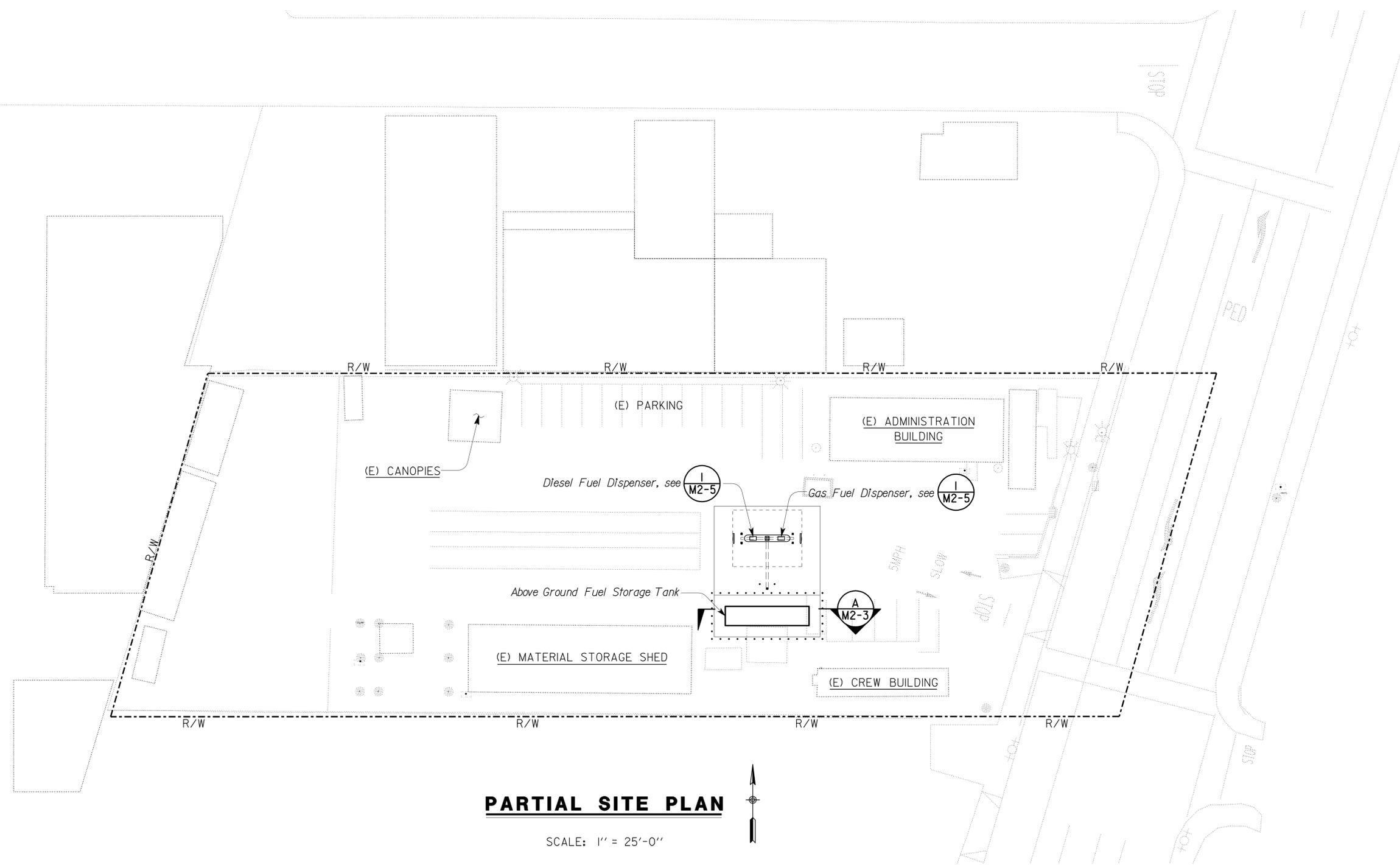
THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

NO SCALE

DS OSD 2139A (4/89) FILE NO.:	DESIGN	BY Tom Hatam	CHECKED Mark Hedglin	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	350054	DISTRICT 4 VARIOUS FUEL CANOPIES ABOVE GROUND FUEL STORAGE TANK 2	SHEET M1-3 OF
	DETAILS	BY Rudy Sarte	CHECKED Tom Hatam		POST MILE	2.6		
	QUANTITIES	BY Tom Hatam	CHECKED Mark Hedglin		UNIT PROJECT NUMBER & PHASE	0702 04000009271		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					DISREGARD PRINTS BEARING EARLIER REVISION DATES			
FILE => m1_3.dgn DATE PLOTTED => 11-MAR-2011 TIME PLOTTED => 13:52				3A0901	USERNAME => HPD115 DATE PLOTTED => 11-MAR-2011 TIME PLOTTED => 13:52			

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala, CC, SM	Var	Var	119	160
 REGISTERED ENGINEER-MECHANICAL			04-13-10		
3-7-11					
PLANS APPROVAL DATE					
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CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: 
 JASON D. DEWITT
 Approval date: 07-13-10
 15-41-11.0056



PARTIAL SITE PLAN
 SCALE: 1" = 25'-0"

THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

DS OSD 2139A (4/89) FILE NO.:	FILE => m2_1.dgn DATE PLOTTED => 11-MAR-2011 TIME PLOTTED => 13:52	DESIGN	BY Tom Hatam	CHECKED Mark Hedglin	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 28M5738	DISTRICT 4 VARIOUS FUEL CANOPIES WALNUT CREEK M.S. - WEST	SHEET M2-1
		DETAILS	BY Rudy Sarte	CHECKED Tom Hatam		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	POST MILE 15.6		
QUANTITIES	BY Tom Hatam	CHECKED Mark Hedglin	UNIT PROJECT NUMBER & PHASE 0702 04000009271	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF		

3A0901

V1-1

USERNAME => HPDPT115 DATE PLOTTED => 11-MAR-2011 TIME PLOTTED => 13:52

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Alameda, Contra Costa, San Mateo	Var	Var	120	160

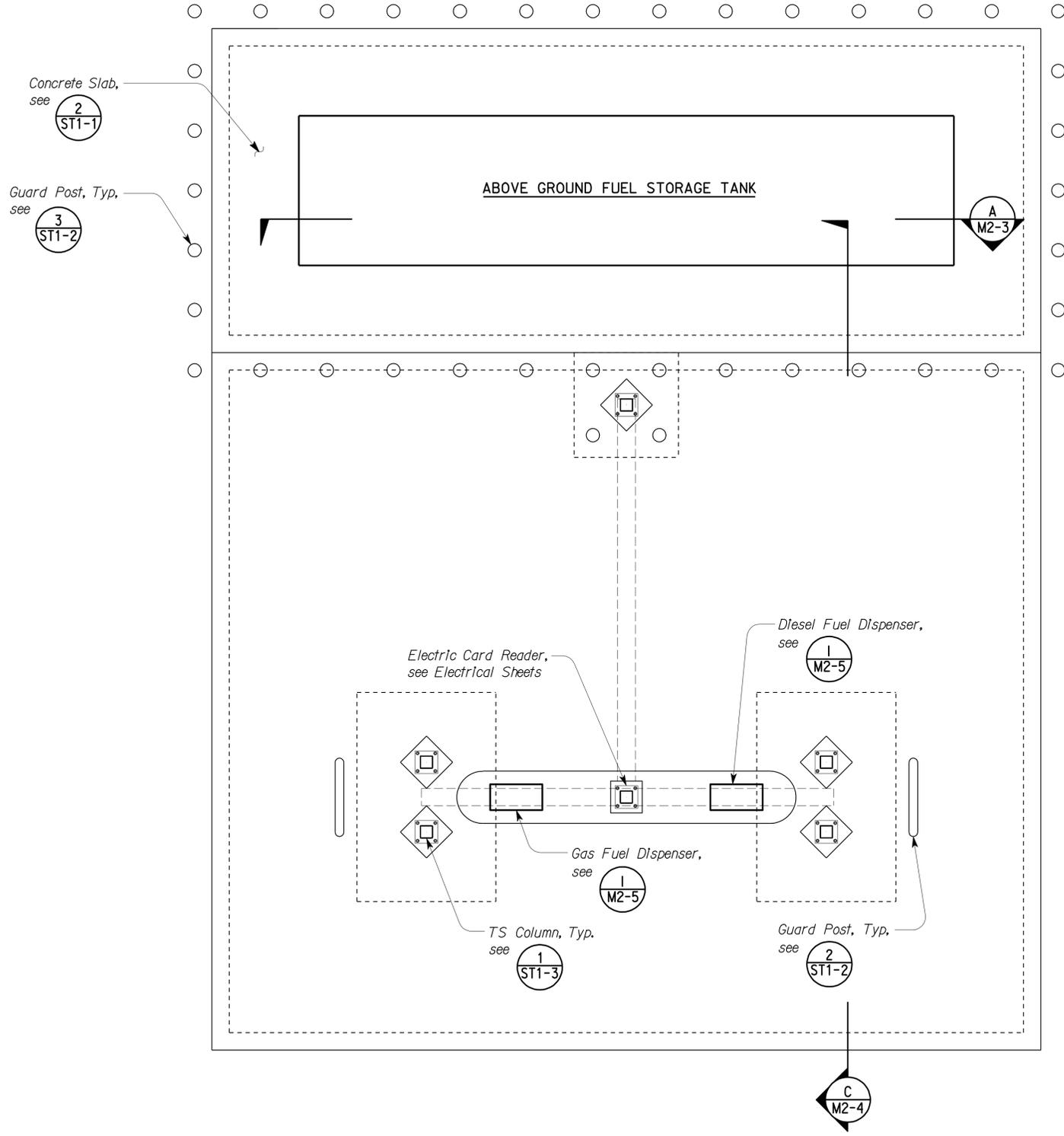
Tom H. Hatam 04-13-10
 REGISTERED ENGINEER-MECHANICAL

3-7-11
 PLANS APPROVAL DATE

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 Reviewed by: JASON D. DeWITT
 Approval date: 07-13-10
 15-41-II.0056




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

THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

DS OSD 2139A (4/89) FILE NO.:	DESIGN BY <i>Tom Hatam</i> CHECKED <i>Mark Hedglin</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 28M5738	DISTRICT 4 VARIOUS FUEL CANOPIES WALNUT CREEK M.S. - WEST MECHANICAL PLAN	SHEET M2-2 OF	
	DETAILS BY <i>Rudy Sarte</i> CHECKED <i>Tom Hatam</i>		PROJECT NUMBER & PHASE 0702 04000009271	POST MILE 15.6			REVISION DATES (PRELIMINARY STAGE ONLY) 06-26-09 08-24-09 02-02-10 04-02-10 04-13-10
	QUANTITIES BY <i>Tom Hatam</i> CHECKED <i>Mark Hedglin</i>		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	DISREGARD PRINTS BEARING EARLIER REVISION DATES			SHEET OF

USERNAME => HP0115 DATE PLOTTED => 11-MAR-2011 TIME PLOTTED => 13:53

Notes:

1. Provide "No Smoking within 25 feet" signs per Cal OSHA requirements.
2. Provide adequate Pipe Supports for fuel pipe risers at the Tank.
3. For Electrical Connections, see Electrical Sheets.
4. Submersible Pump shall be $\frac{3}{4}$ HP, 240 Volts, Single Phase and shall deliver 15 GPM at 15' of head.
5. Place 4" Free Draining Granular Material under slab.

CALIFORNIA STATE FIRE MARSHAL APPROVED
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 Reviewed by: JASON D. DEWITT
 Approval date: 07-13-10
 15-41-11.0056

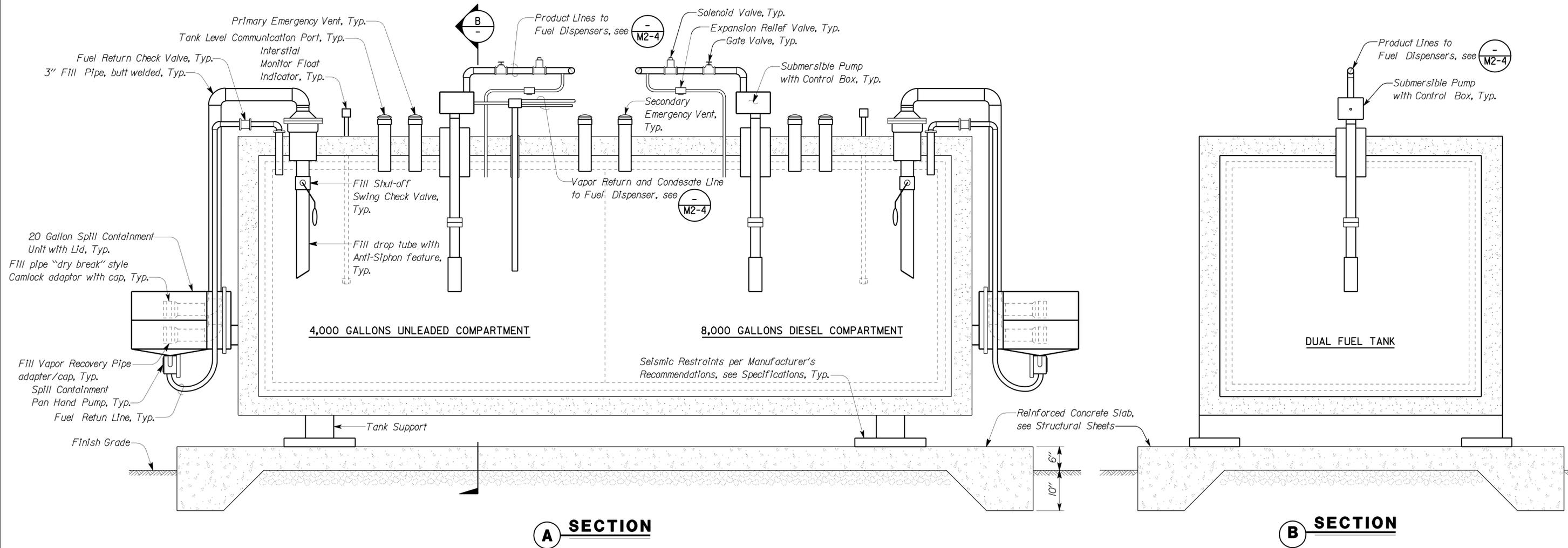
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Alameda, Contra Costa, San Mateo	Var	Var	121	160

Tom H. Hatam 04-13-10
 REGISTERED ENGINEER-MECHANICAL

REGISTERED PROFESSIONAL ENGINEER
 TOM H. HATAM
 No. M33666
 Exp. 6-30-11
 MECH
 STATE OF CALIFORNIA

3-7-11
 PLANS APPROVAL DATE

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THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

NO SCALE

DESIGN	BY Tom Hatam	CHECKED Mark Hedglin	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 28M5738	DISTRICT 4 VARIOUS FUEL CANOPIES WALNUT CREEK M.S. - WEST	SHEET M2-3
DETAILS	BY Rudy Sarte	CHECKED Tom Hatam		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	POST MILE 15.6		
QUANTITIES	BY Tom Hatam	CHECKED Mark Hedglin		UNIT PROJECT NUMBER & PHASE 0702 04000009271	DISREGARD PRINTS BEARING EARLIER REVISION DATES		
DS OSD 2139A (4/89) FILE NO.:	FILE => m2_3.dgn DATE PLOTTED => 11-MAR-2011	TIME PLOTTED => 13:53	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	REVISION DATES (PRELIMINARY STAGE ONLY)	06-26-09 08-24-09 02-02-10 04-02-10 04-13-10	SHEET OF

3A0901

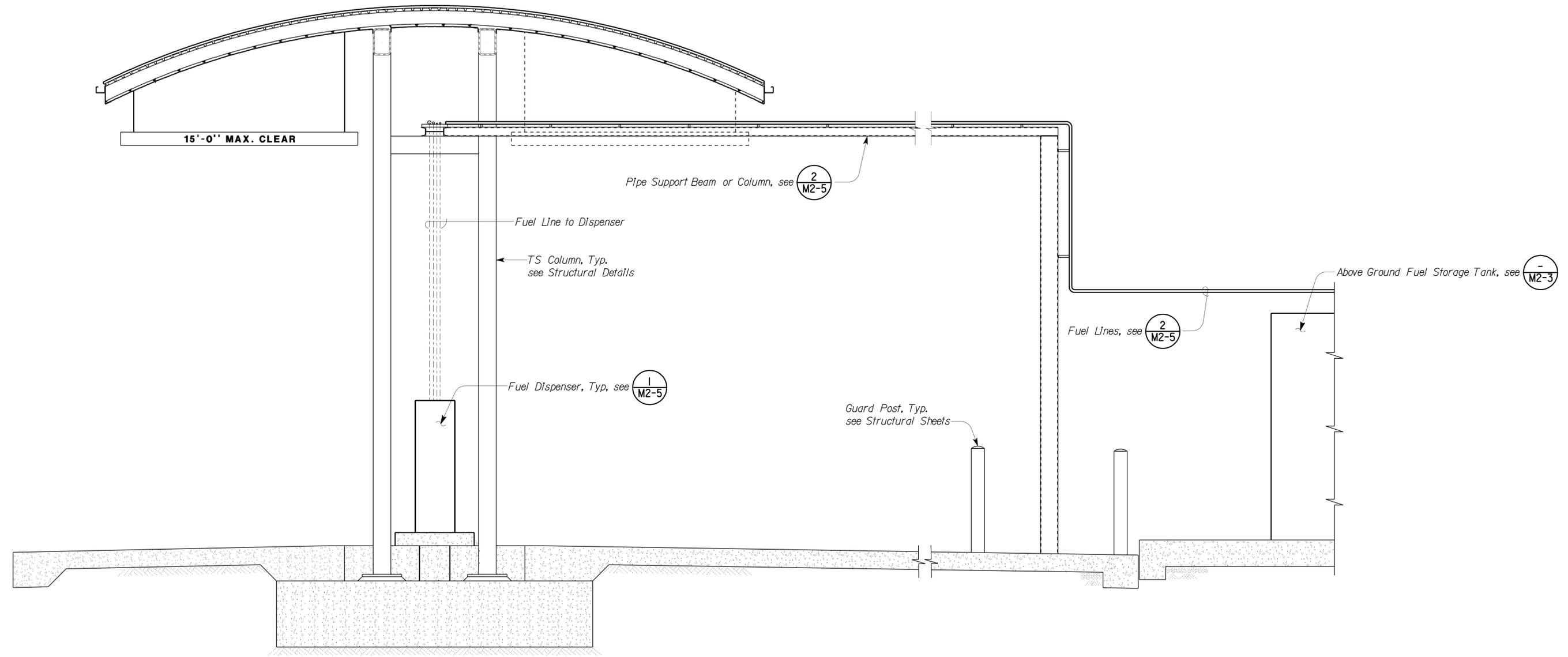
V1-1

USERNAME => HPDPL15 DATE PLOTTED => 11-MAR-2011 TIME PLOTTED => 13:53

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Alameda, Contra Costa, San Mateo	Var	Var	122	160

 REGISTERED ENGINEER-MECHANICAL		04-13-10 
PLANS APPROVAL DATE: 3-7-11		
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CALIFORNIA STATE FIRE MARSHAL APPROVED
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by: 
 JASON D. DEWITT
 Approval date: 07-13-10
 15-41-11.0056



C SECTION
 SCALE: 1/2" = 1'-0"

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DS OSD 2139A (4/89) FILE NO.:	FILE => m2_4.dgn DATE PLOTTED => 11-MAR-2011 TIME PLOTTED => 13:53	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 28M5738 POST MILE 15.6	DISTRICT 4 VARIOUS FUEL CANOPIES WALNUT CREEK M.S. - WEST	SHEET M2-4
	DESIGN BY Tom Hatam CHECKED Mark Hedglin	DETAILS BY Rudy Sarte CHECKED Tom Hatam	QUANTITIES BY Tom Hatam CHECKED Mark Hedglin	UNIT PROJECT NUMBER & PHASE 0702 04000009271	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 06-26-09 08-24-09 02-02-10 04-13-10	SHEET OF
	3A0901						

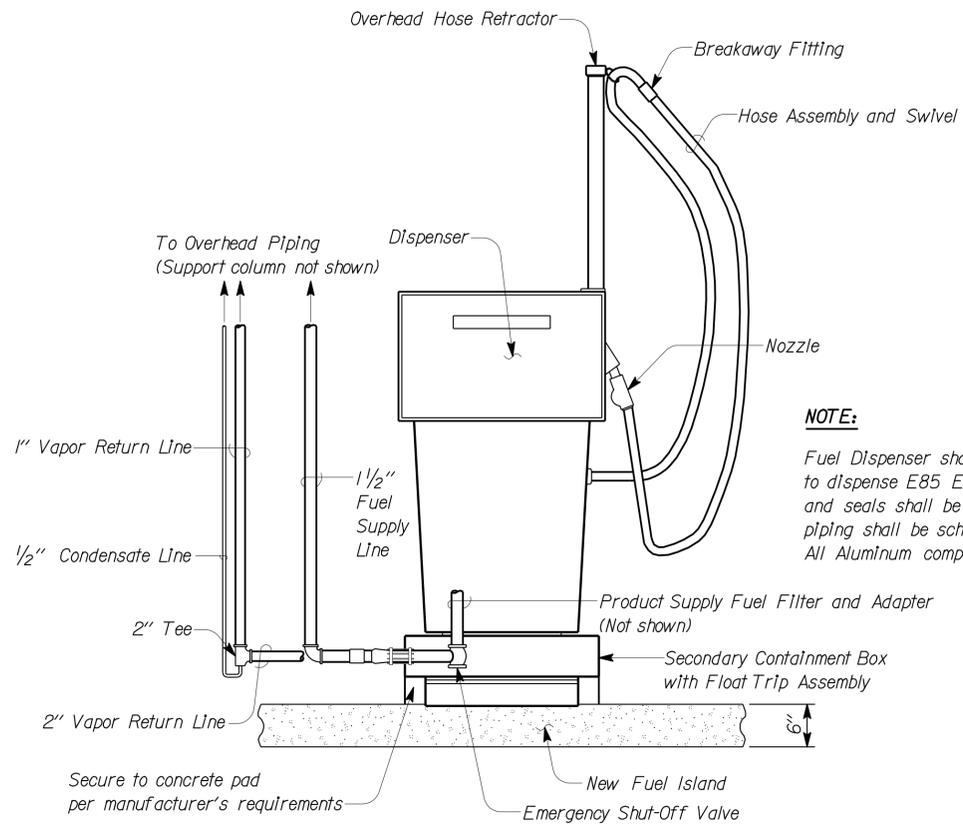
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Alameda, Contra Costa, San Mateo	Var	Var	123	160

Tom H. Hatam 04-13-10
 REGISTERED ENGINEER-MECHANICAL
 No. M33666
 Exp. 6-30-11
 MECH
 STATE OF CALIFORNIA

3-7-11
 PLANS APPROVAL DATE

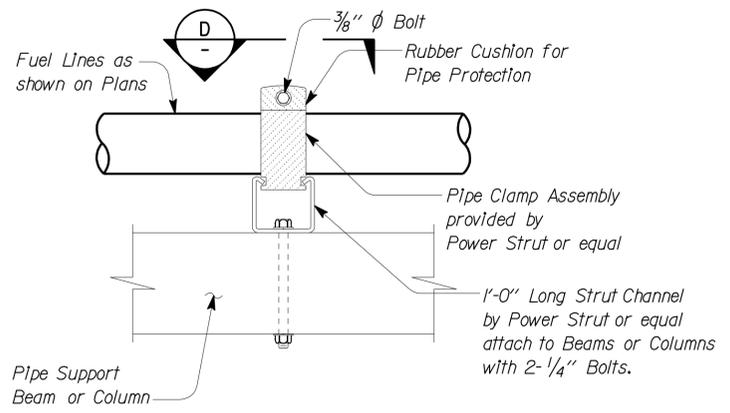
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



NOTE:
 Fuel Dispenser shall be constructed specifically to dispense E85 Ethanol fuel. All internal components and seals shall be compatible with E85 fuel. Internal piping shall be schedule 80 Black or Stainless Steel. All Aluminum components shall be Nickel plated.

ELEVATION

1 E85 FUEL DISPENSER

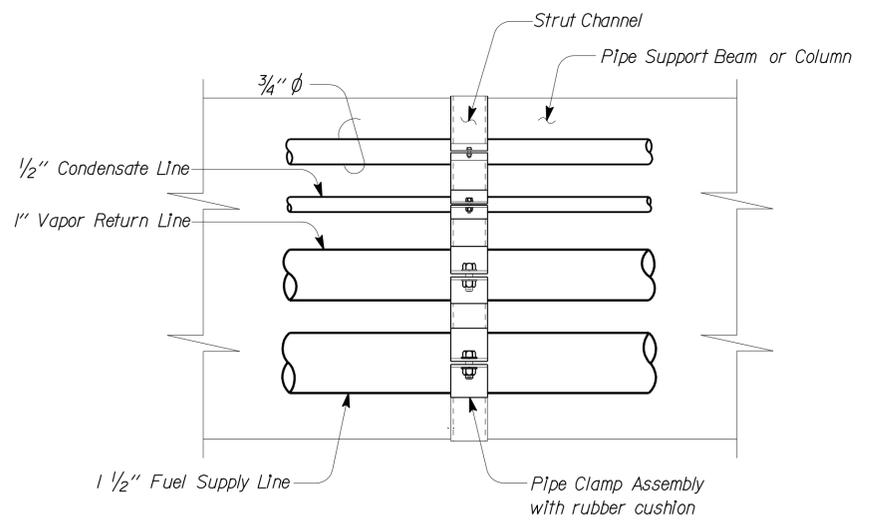


2 SUPPORT COLUMN DETAIL

CALIFORNIA STATE FIRE MARSHAL APPROVED

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Reviewed by: Jason D. DeWitt
 Approval date: 07-13-10
 15-41-11.0056



D SECTION

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NO SCALE

DS OSD 2139A (4/89) FILE NO.:	FILE => m2_5.dgn DATE PLOTTED => 11-MAR-2011 TIME PLOTTED => 13:53	DESIGN	BY Tom Hatam	CHECKED Mark Hedglin	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	28M5738	DISTRICT 4 VARIOUS FUEL CANOPIES WALNUT CREEK M.S. - WEST	SHEET M2-5	
		DETAILS	BY Rudy Sarte	CHECKED Tom Hatam		POST MILE	15.6			MECHANICAL DETAILS
		QUANTITIES	BY Tom Hatam	CHECKED Mark Hedglin		UNIT PROJECT NUMBER & PHASE	0702 04000009271			

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3
 DISREGARD PRINTS BEARING EARLIER REVISION DATES

USERNAME => HPDPL15 DATE PLOTTED => 11-MAR-2011 TIME PLOTTED => 13:53

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala. C.C.S.M	Var	Var	124	160

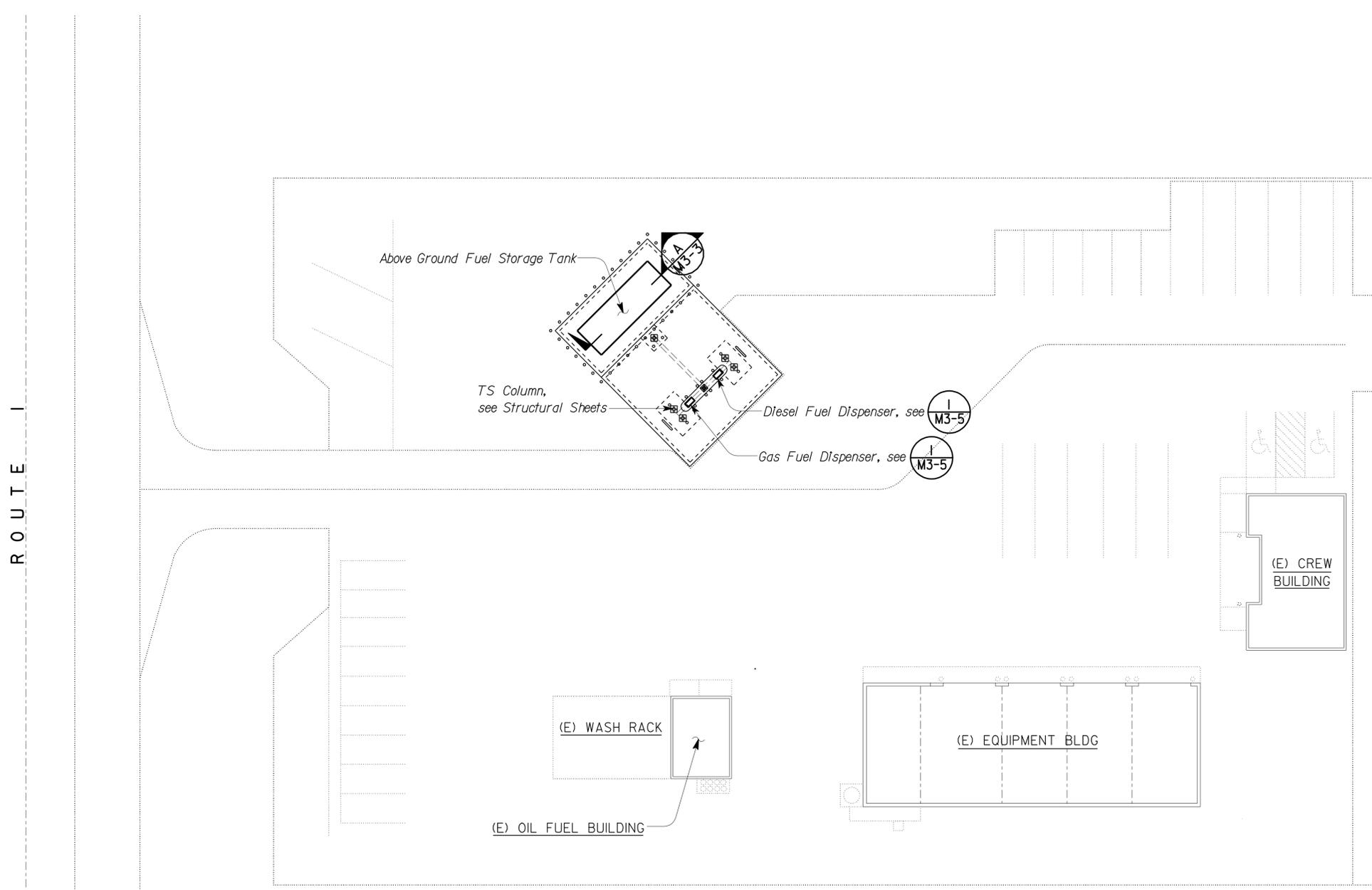
Tom H. Hatam 04-13-10
 REGISTERED ENGINEER-MECHANICAL

REGISTERED PROFESSIONAL ENGINEER
TOM H. HATAM
 No. M33666
 Exp. 6-30-11
 MECH
 STATE OF CALIFORNIA

3-7-11
 PLANS APPROVAL DATE

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 Reviewed by: *JASON D. DeWITT*
 Approval date: 07-13-10
 15-41-11.0056



SITE PLAN
 SCALE: 1" = 20'-0"

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DS OSD 2139A (4/89) FILE NO.:	FILE => m3_1.dgn DATE PLOTTED => 11-MAR-2011 TIME PLOTTED => 13:43	DESIGN	BY <i>Tom Hatam</i>	CHECKED <i>Mark Hedglin</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	35M5710	DISTRICT 4 VARIOUS FUEL CANOPIES MECHANICAL SITE PLAN	SHEET M3-1	
		DETAILS	BY <i>Rudy Sarte</i>	CHECKED <i>Tom Hatam</i>			POST MILE	26.9			HALF MOON BAY M.S.
		QUANTITIES	BY <i>Tom Hatam</i>	CHECKED <i>Mark Hedglin</i>			UNIT PROJECT NUMBER & PHASE	0702 04000009271			DISREGARD PRINTS BEARING EARLIER REVISION DATES

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

3A0901

USERNAME => H11enard DATE PLOTTED => 11-MAR-2011 TIME PLOTTED => 13:43

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala. C.C.S.M	Var	Var	125	160

Tom H. Hatam 04-13-10
REGISTERED ENGINEER-MECHANICAL

3-7-11
PLANS APPROVAL DATE

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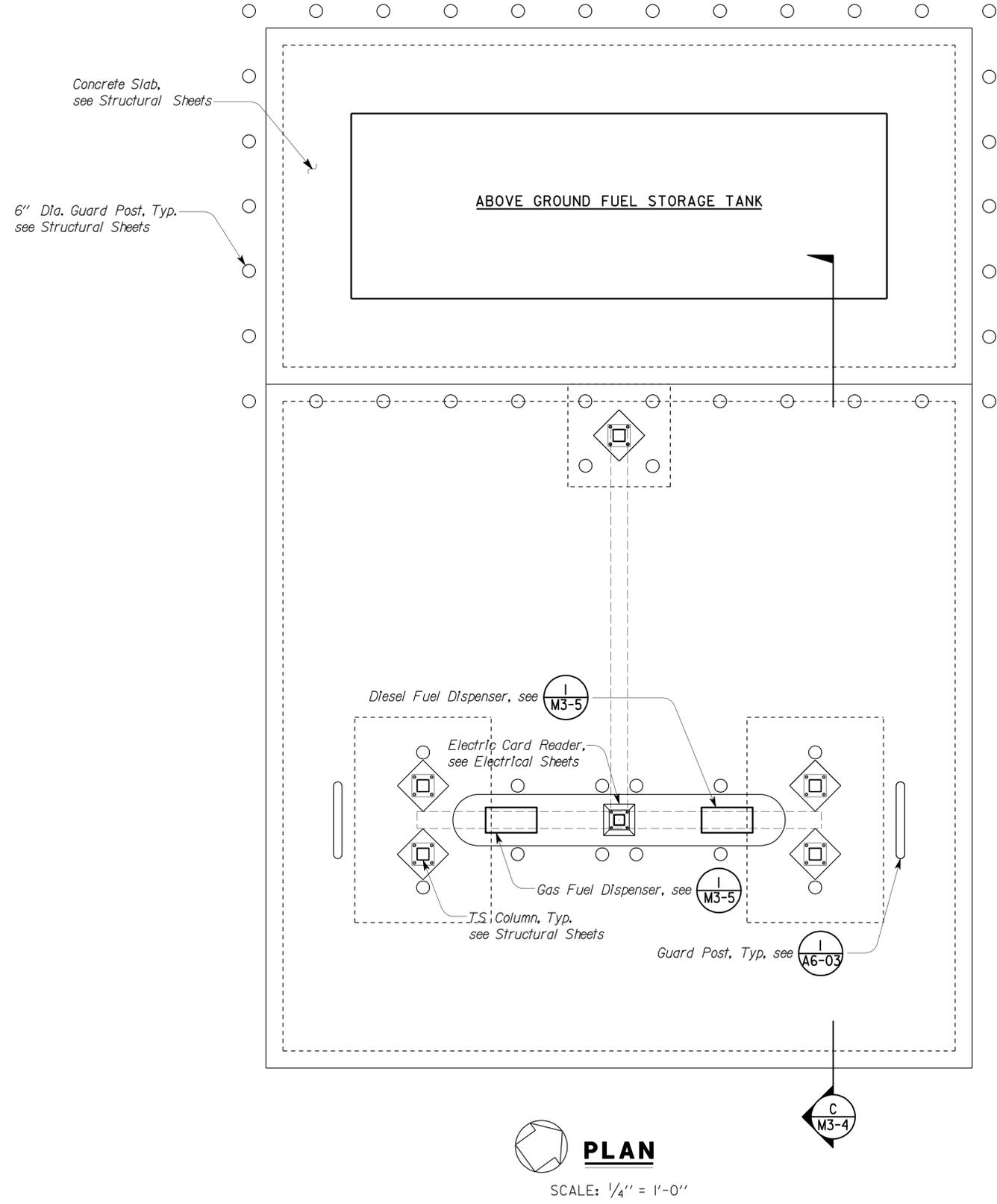


CALIFORNIA STATE FIRE MARSHAL APPROVED

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Reviewed by: *JASON D. DeWITT*
Approval date: 07-13-10

15-41-11.0056



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

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DS OSD 2139A (4/89) FILE NO.:	DESIGN BY <i>Tom Hatam</i> CHECKED <i>Mark Hedglin</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 35M5710	DISTRICT 4 VARIOUS FUEL CANOPIES		SHEET M3-2
	DETAILS BY <i>Rudy Sarte</i> CHECKED <i>Tom Hatam</i>		PROJECT NUMBER & PHASE 0702 04000009271	POST MILE 26.9	HALF MOON BAY M.S.	MECHANICAL PLAN	
	QUANTITIES BY <i>Tom Hatam</i> CHECKED <i>Mark Hedglin</i>		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 06-26-09 08-24-09 02-02-10 04-02-10 04-13-10	SHEET OF	

USERNAME => h11engard DATE PLOTTED => 11-MAR-2011 TIME PLOTTED => 13:43

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala. C.C.S.M	Var	Var	126	160

Tom H. Hatam 04-13-10
 REGISTERED ENGINEER-MECHANICAL

REGISTERED PROFESSIONAL ENGINEER
 TOM H. HATAM
 No. M33666
 Exp. 6-30-11
 MECH
 STATE OF CALIFORNIA

3-7-11
 PLANS APPROVAL DATE

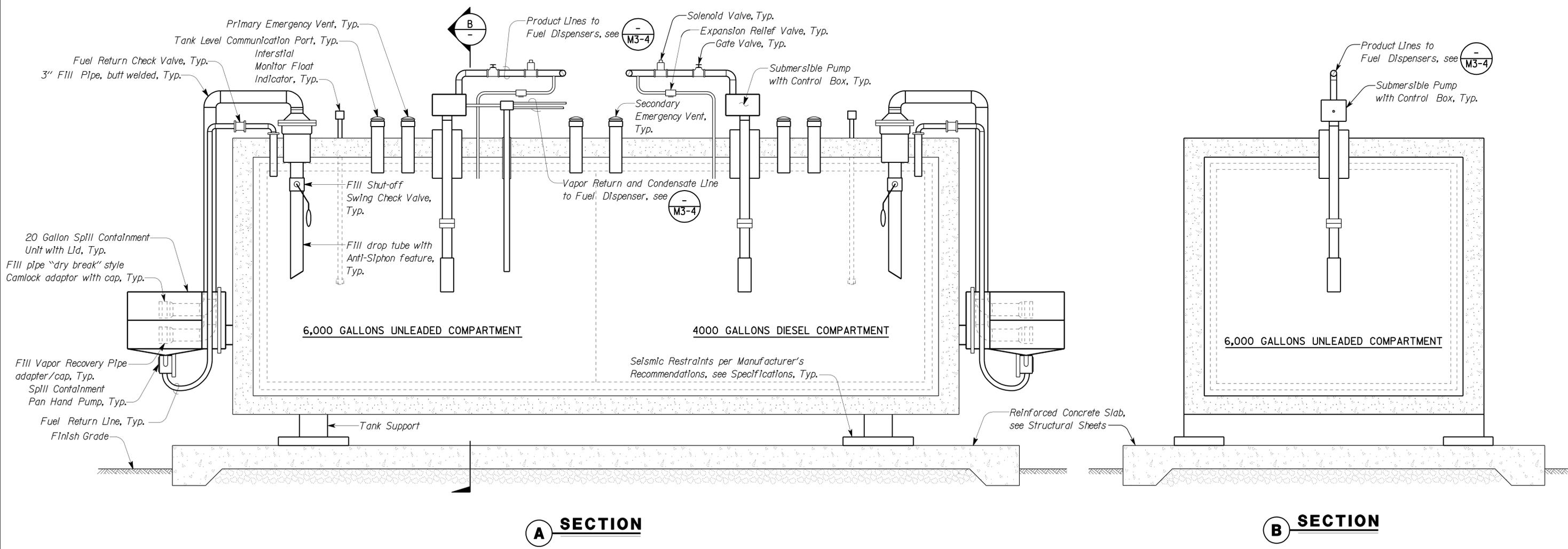
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

- Notes:
1. Provide "No Smoking within 25 feet" signs per Cal OSHA requirements.
 2. Provide adequate Pipe Supports for fuel pipe risers at the Tank.
 3. For Electrical Connections, see Electrical Sheets.
 4. Submersible Pump shall be 3/4 HP, 240 Volts, Single Phase and shall deliver 15 GPM at 15' of head.
 5. Place 4" Free Draining Granular Material under slab.

CALIFORNIA STATE FIRE MARSHAL APPROVED
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Reviewed by: JASON D. DeWITT
 Approval date: 07-13-10

15-41-II.0056



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NO SCALE

DESIGN	BY Tom Hatam	CHECKED Mark Hedglin	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 35M5710	DISTRICT 4 VARIOUS FUEL CANOPIES HALF MOON BAY M.S.	SHEET M3-3 OF	
DETAILS	BY Rudy Sarte	CHECKED Tom Hatam		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	POST MILE 26.9			
QUANTITIES	BY Tom Hatam	CHECKED Mark Hedglin		UNIT PROJECT NUMBER & PHASE 0702 04000009271	REVISION DATES (PRELIMINARY STAGE ONLY)			
DS OSD 2139A (4/89)	FILE => m3_3.dgn	DATE PLOTTED => 14-MAR-2011	TIME PLOTTED => 06:53	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala. C.C.S.M	Var	Var	127	160

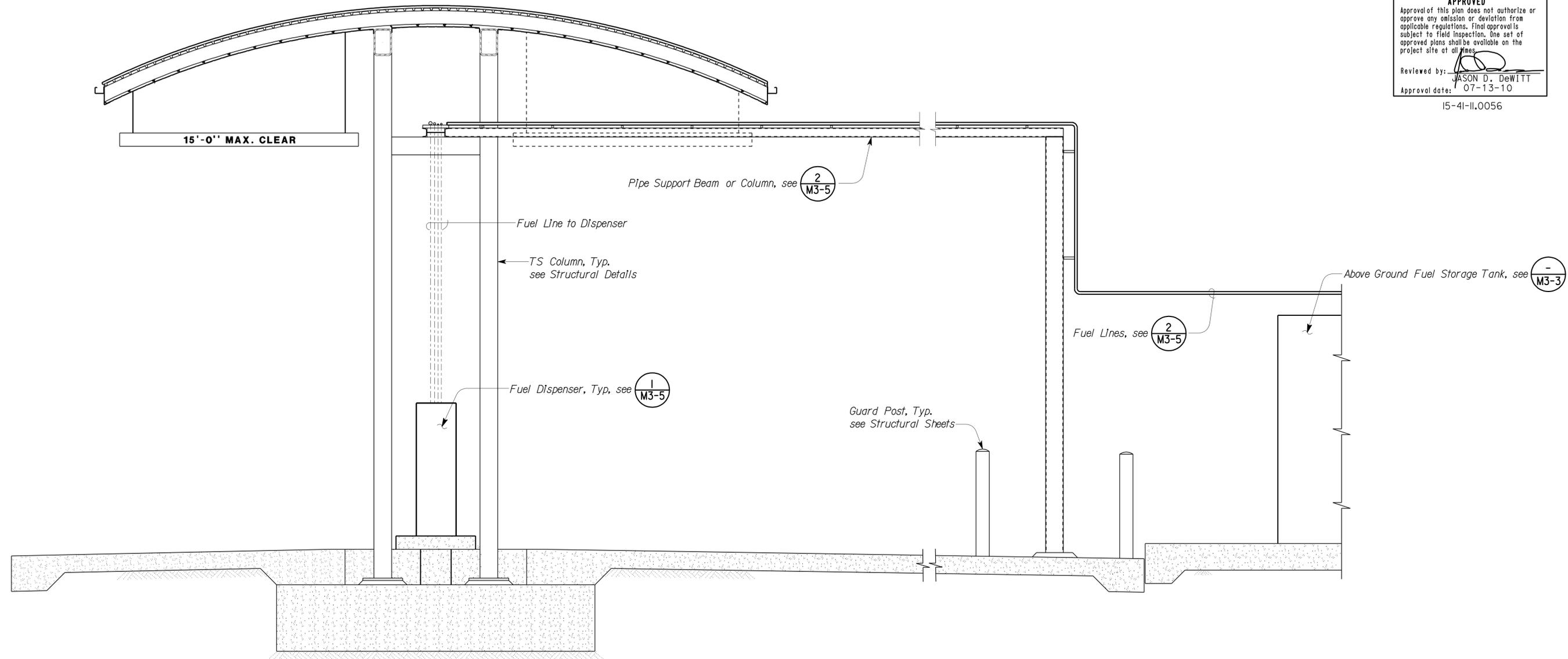
Tom H. Hatam 04-13-10
 REGISTERED ENGINEER-MECHANICAL

REGISTERED PROFESSIONAL ENGINEER
 TOM H. HATAM
 No. M33666
 Exp. 6-30-11
 MECH
 STATE OF CALIFORNIA

3-7-11
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 Reviewed by: JASON D. DeWITT
 Approval date: 07-13-10
 15-41-11.0056



C SECTION

SCALE: 1/2" = 1'-0"

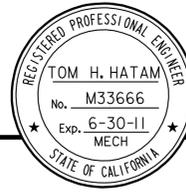
THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

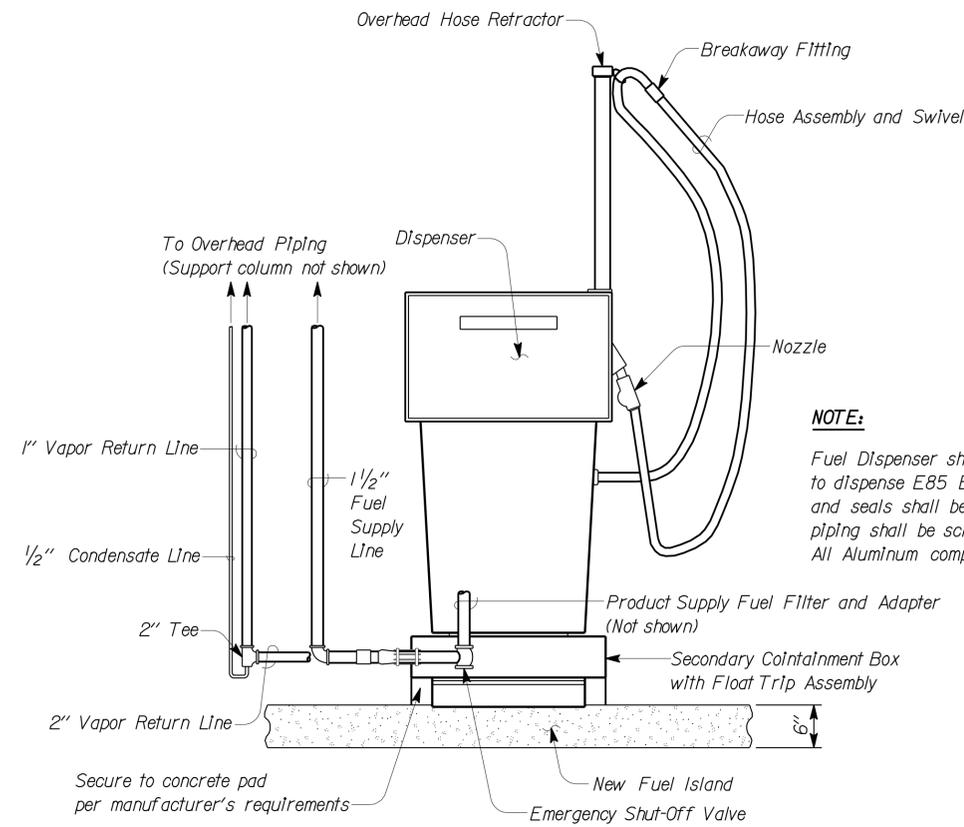
DS OSD 2139A (4/89) FILE NO.:	DESIGN	BY Tom Hatam	CHECKED Mark Hedglin	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	DISTRICT 4 VARIOUS FUEL CANOPIES		SHEET M3-4	
	DETAILS	BY Rudy Sarte	CHECKED Tom Hatam			POST MILE	HALF MOON BAY M.S.	MECHANICAL SECTION		
	QUANTITIES	BY Tom Hatam	CHECKED Mark Hedglin			26.9				
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				UNIT PROJECT NUMBER & PHASE 0702 04000009271		DISREGARD PRINTS BEARING EARLIER REVISION DATES			REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

3A0901

V1=1

USERNAME => H11engr DATE PLOTTED => 11-MAR-2011 TIME PLOTTED => 13:44

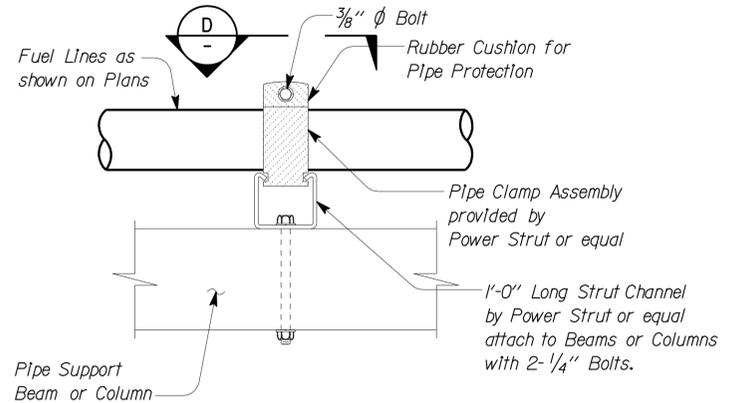
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala. C.C.S.M	Var	Var	128	160
 REGISTERED ENGINEER-MECHANICAL 04-13-10					
3-7-11					
PLANS APPROVAL DATE					
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NOTE:
 Fuel Dispenser shall be constructed specifically to dispense E85 Ethanol fuel. All internal components and seals shall be compatible with E85 fuel. Internal piping shall be schedule 80 Black or Stainless Steel. All Aluminum components shall be Nickel plated.

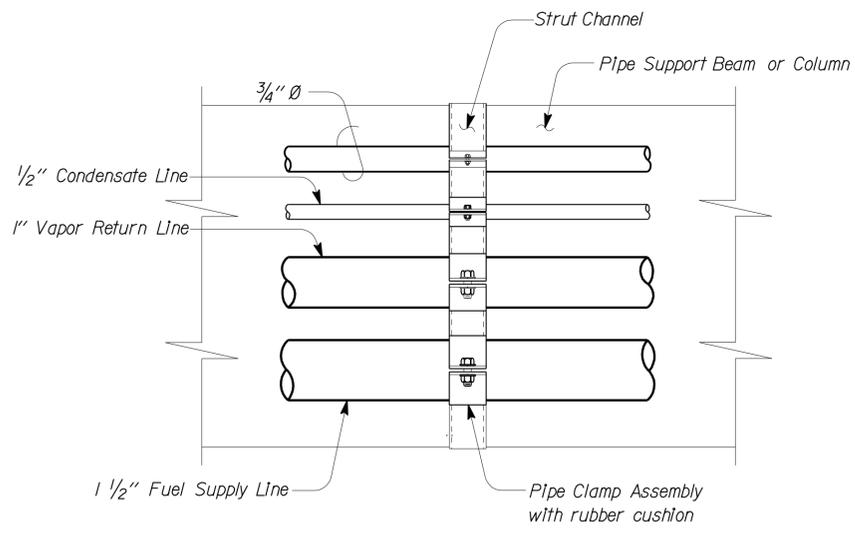
ELEVATION

1 E85 FUEL DISPENSER



2 SUPPORT COLUMN DETAIL

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 Approval date: 07-13-10
 15-41-11.0056



D SECTION

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NO SCALE

DS OSD 2139A (4/89) FILE NO.:	FILE => m3_5.dgn DATE PLOTTED => 11-MAR-2011 TIME PLOTTED => 13:44	DESIGN	BY Tom Hatam	CHECKED Mark Hedglin	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO.	DISTRICT 4 VARIOUS FUEL CANOPIES HALF MOON BAY M.S.	MECHANICAL DETAILS	SHEET OF M3-5	
		DETAILS	BY Rudy Sarte	CHECKED Tom Hatam		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	35M5710				
		QUANTITIES	BY Tom Hatam	CHECKED Mark Hedglin			POST MILE 26.9				
		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0 1 2 3	UNIT PROJECT NUMBER & PHASE	0702 04000009271	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

USERNAME => h11engard DATE PLOTTED => 11-MAR-2011 TIME PLOTTED => 13:44

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala. C.C.S.M	Var	Var	129	160

Tom H. Hatam 04-13-10
REGISTERED ENGINEER-MECHANICAL

3-7-11
PLANS APPROVAL DATE

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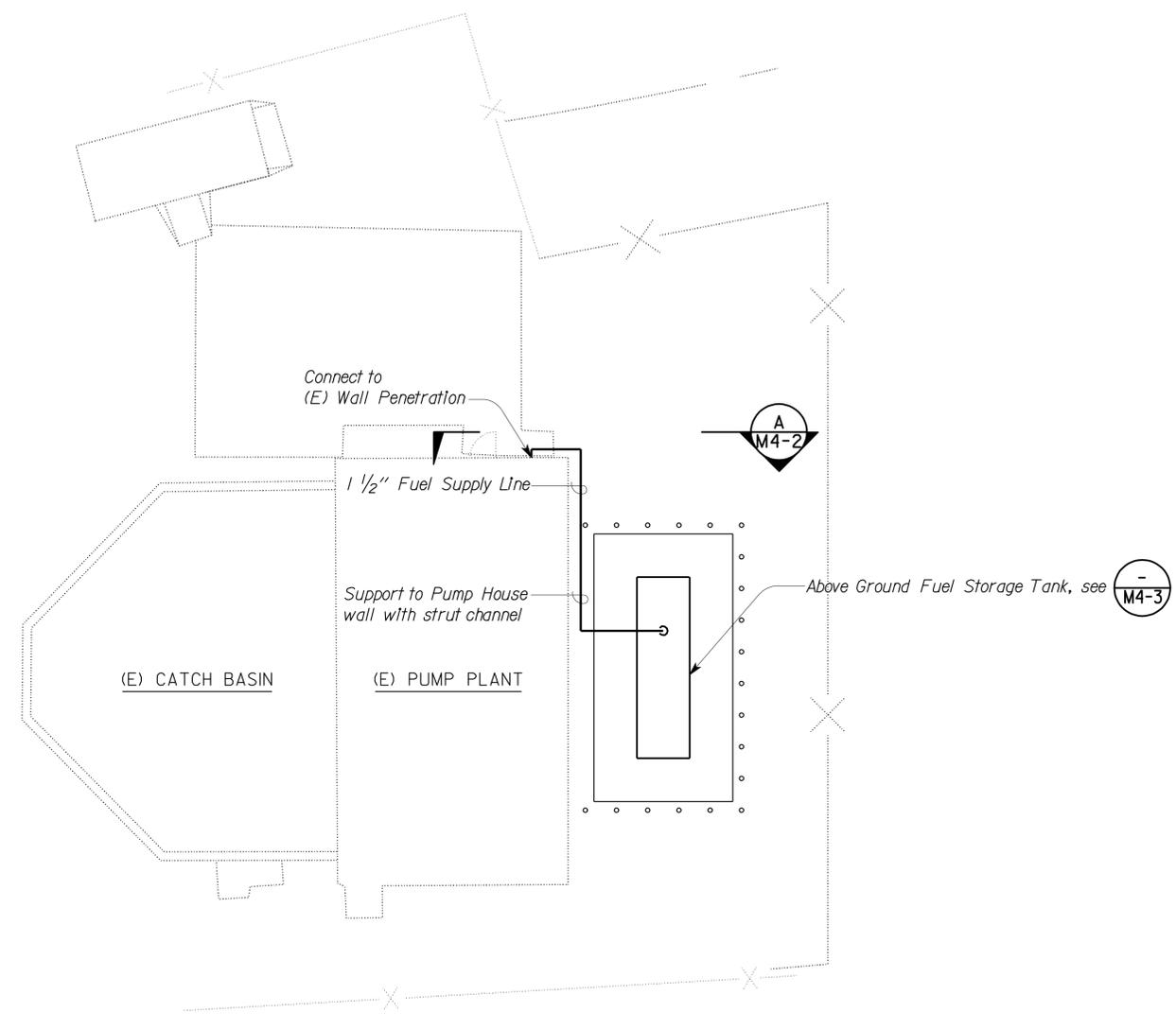


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Reviewed by: *Jason D. DeWitt*
Approval date: 07-13-10

15-41-11.0056



PARTIAL PLAN
SCALE: 1" = 10'-0"

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DS OSD 2139A (4/89) FILE NO.:	FILE => m4_1.dgn DATE PLOTTED => 11-MAR-2011 TIME PLOTTED => 13:44	DESIGN	BY <i>Tom Hatam</i>	CHECKED <i>Mark Hedglin</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	35-0292W	DISTRICT 4 VARIOUS FUEL CANOPIES RAVENSWOOD PUMP PLANT MECHANICAL SITE PLAN	SHEET	M4-1
		DETAILS	BY <i>Rudy Sarte</i>	CHECKED <i>Tom Hatam</i>			POST MILE	28.0		OF	
QUANTITIES	BY <i>Tom Hatam</i>	CHECKED <i>Mark Hedglin</i>	UNIT PROJECT NUMBER & PHASE	0702 04000009271			DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)		06-22-09 08-24-09 12-08-09 04-02-10 04-13-10	

3A0901

V1=1

USERNAME => H11engard DATE PLOTTED => 11-MAR-2011 TIME PLOTTED => 13:44

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala. C.C.S.M	Var	Var	130	160

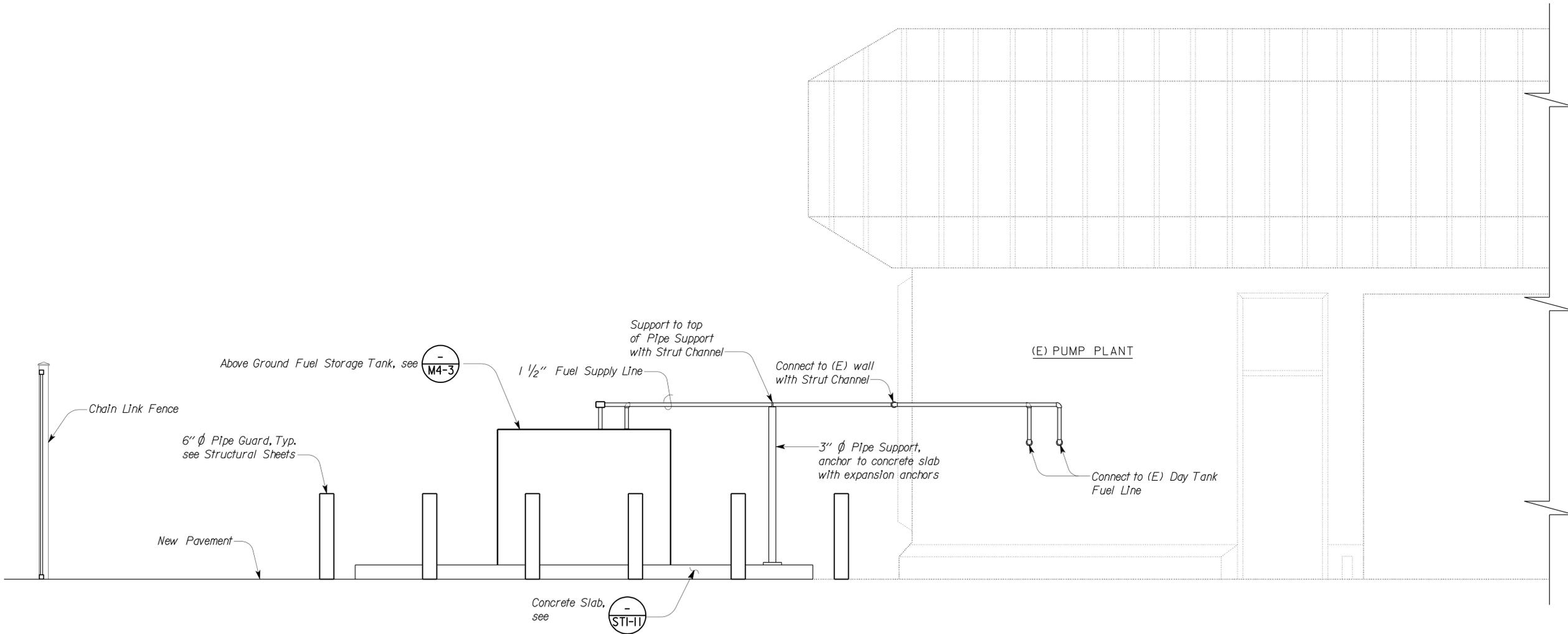
 REGISTERED ENGINEER-MECHANICAL 04-13-10		
3-7-11 PLANS APPROVAL DATE		

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Reviewed by: 
 JASON D. DeWITT
 Approval date: 07-13-10

15-41-II.0056



A ELEVATION
 SCALE: 1/2" = 1'-0"

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DS OSD 2139A (4/89) FILE NO.:	DESIGN	BY Tom Hatam	CHECKED Mark Hedglin	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO.	DISTRICT 4 VARIOUS FUEL CANOPIES RAVENSWOOD PUMP PLANT MECHANICAL PLAN	SHEET	
	DETAILS	BY Rudy Sarte	CHECKED Tom Hatam		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	POST MILE		35-0292W	OF
	QUANTITIES	BY Tom Hatam	CHECKED Mark Hedglin			28.0			M4-2

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 0702 04000009271	DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES (PRELIMINARY STAGE ONLY) 06-22-09 08-24-09 12-08-09 04-02-10 04-13-10	SHEET OF
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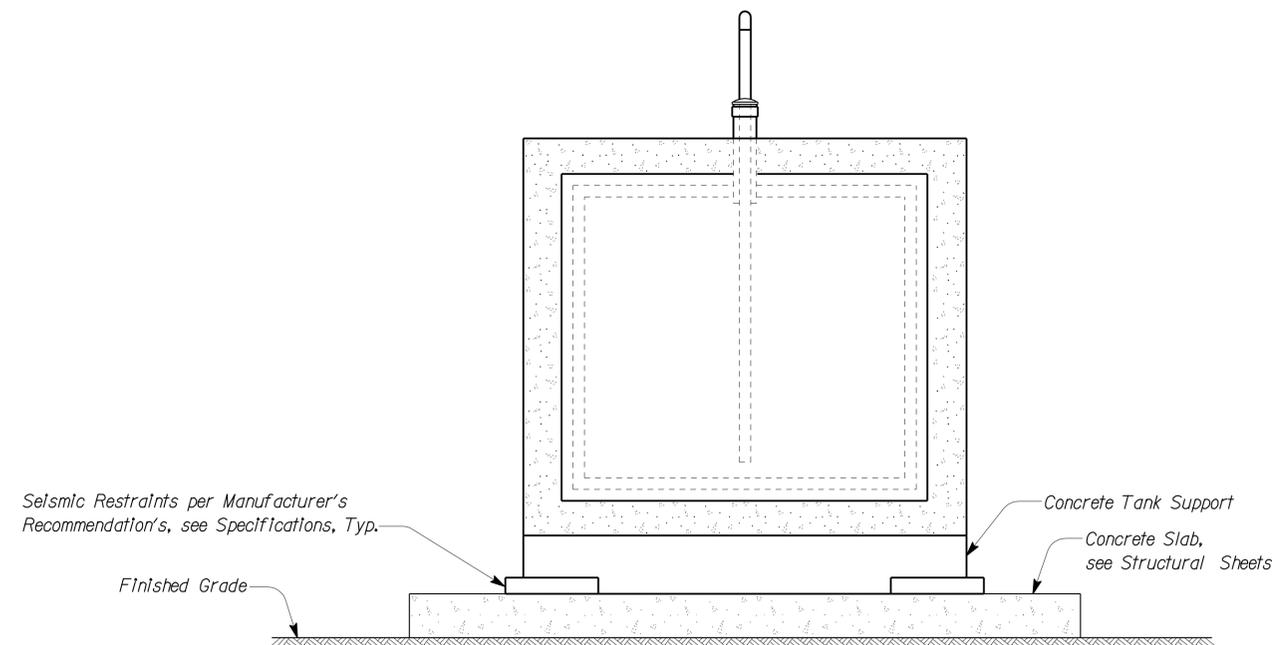
USERNAME => H11engr DATE PLOTTED => 11-MAR-2011 TIME PLOTTED => 13:44

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala. C.C.S.M	Var	Var	131	160

 REGISTERED ENGINEER-MECHANICAL No. M33666 Exp. 6-30-11 MECH STATE OF CALIFORNIA	
04-13-10 PLANS APPROVAL DATE	

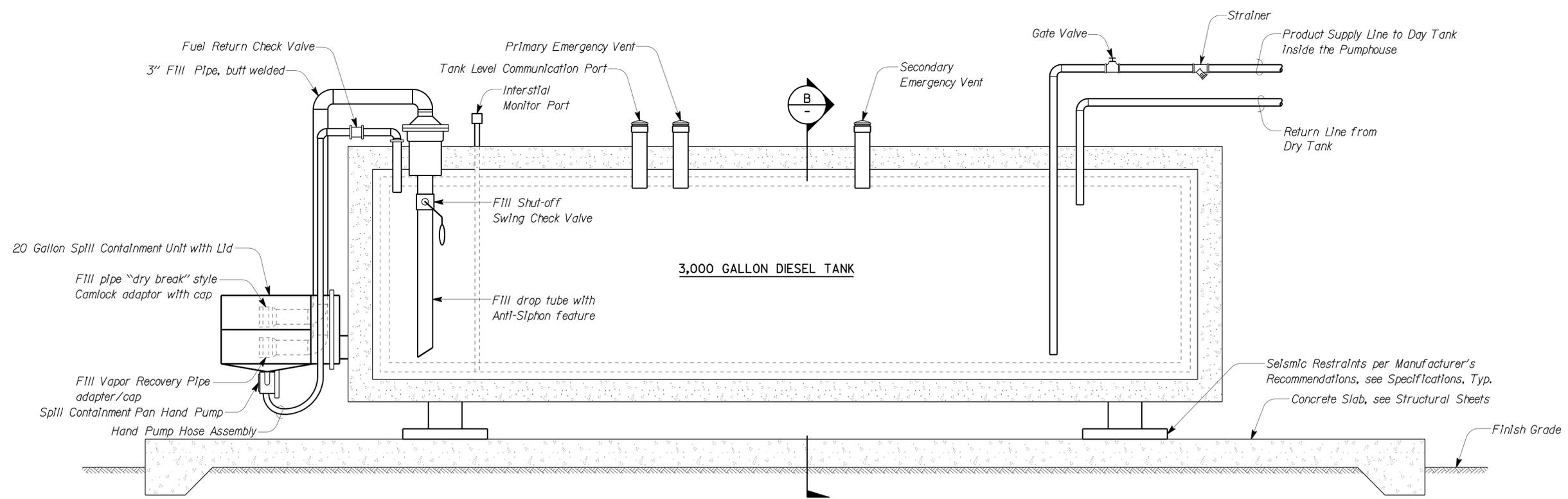
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 15-41-11.0056



B SECTION

- Notes:*
1. Provide "No Smoking within 25 feet" signs per Cal OSHA requirements.
 2. Provide adequate Pipe Supports for fuel pipe risers at the Tank.
 3. For Electrical Connections, see Electrical Sheets.
 4. Submersible Pump shall be 3/4 HP, 240 Volts, Single Phase and shall deliver 15 GPM at 15' of head.
 5. Place 4" Free Draining Granular Material under slab.



ELEVATION

THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

NO SCALE

DESIGN BY <i>Tom Hatam</i> CHECKED <i>Mark Hedglin</i> DETAILS BY <i>Rudy Sarte</i> CHECKED <i>Tom Hatam</i> QUANTITIES BY <i>Tom Hatam</i> CHECKED <i>Mark Hedglin</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 35-0292W	DISTRICT 4 VARIOUS FUEL CANOPIES RAVENSWOOD PUMP PLANT	SHEET M4-3 OF
			POST MILE 28.0		
DS OSD 2139A (4/89) FILE NO.:		FILE => m4_3.dgn DATE PLOTTED => 11-MAR-2011 TIME PLOTTED => 13:44		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	
UNIT PROJECT NUMBER & PHASE 0702 04000009271			DISREGARD PRINTS BEARING EARLIER REVISION DATES		

USERNAME => h11engard DATE PLOTTED => 11-MAR-2011 TIME PLOTTED => 13:44

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala. C.C.S.M	Var	Var	132	160

 04-13-10
 REGISTERED ENGINEER-MECHANICAL


3-7-11
PLANS APPROVAL DATE

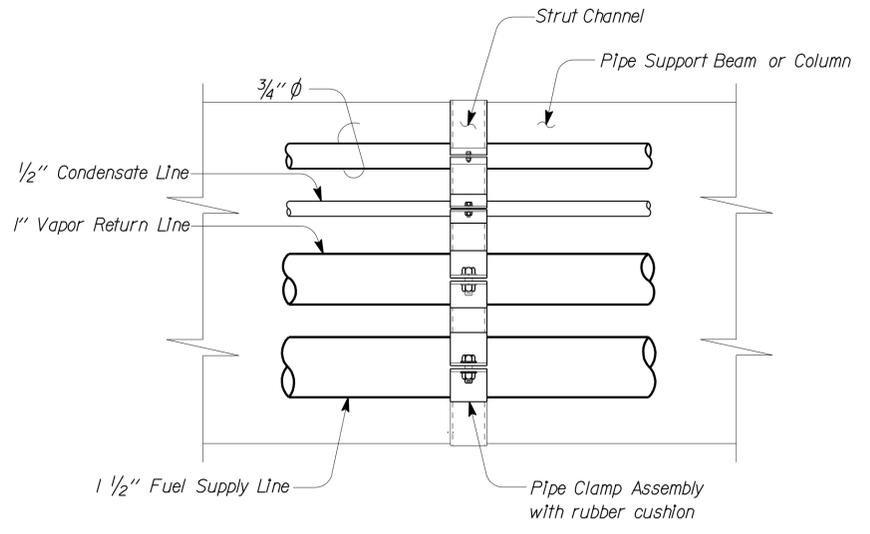
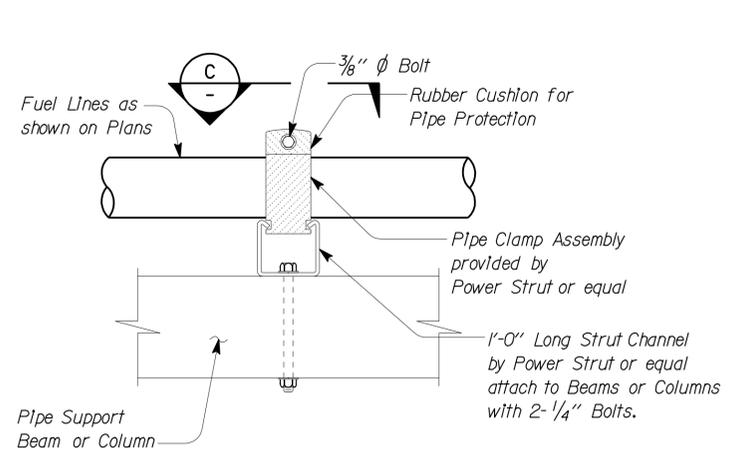
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 Approval date: 07-13-10

15-41-11.0056



1 SUPPORT WALL/COLUMN DETAIL

C SECTION

THIS DRAWING ACCURATE FOR MECHANICAL WORK ONLY

NO SCALE

DS OSD 2139A (4/89) FILE NO.:	DESIGN	BY Tom Hatam	CHECKED Mark Hedglin	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	35-0292W	DISTRICT 4 VARIOUS FUEL CANOPIES RAVENSWOOD PUMP PLANT MECHANICAL DETAILS	SHEET M4-4 OF
	DETAILS	BY Rudy Sarte	CHECKED Tom Hatam			POST MILE	28.0		
	QUANTITIES	BY Tom Hatam	CHECKED Mark Hedglin			UNIT PROJECT NUMBER & PHASE	0702 04000009271		
FILE => m4_4.dgn DATE PLOTTED => 11-MAR-2011	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	06-22-09 08-24-09 12-08-09 04-02-10 04-13-10	SHEET	OF		

USERNAME => h11engard DATE PLOTTED => 11-MAR-2011 TIME PLOTTED => 13:44

CERTIFICATE OF COMPLIANCE (Page 1 of 4) OLTG-1C

Project Name: District 4 Various Fuel Canopies Date: 02-26-2010

Project Address: 5500 West Jackson St. Hayward, CA 94545 Total Hardscape Illuminated Area: ---

General Information

Phase of Construction: New Construction Addition Alteration

Documentation Author's Declaration Statement

I certify that this Certificate of Compliance documentation is accurate and complete.

Name: Imran Saeed Signature: *Imran Saeed*

Company: CalTrans Date: 02-26-2010

Address: 1801 30th Street If applicable: CEA # CEPE #

City/State/Zip: Sacramento, CA 95816 Phone: (916) 227-8202

Principal Lighting Designer's Declaration Statement

- I am eligible under Division 3 of the California Business and Professions Code to accept responsibility for the lighting design.
- This Certificate of Compliance identifies the lighting features and performance specification required for compliance with Title 24, Pages 1 and 6 of the California Code of Regulations.
- The design features represented on this Certificate of Compliance are consistent with the information provided to document this design on the other applicable compliance forms, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

Name: Imran Saeed Signature: *Imran Saeed*

Company: CalTrans Phone: (916) 227-8202

Address: 1801 30th Street License # E 18781

City/State/Zip: Sacramento, CA 95816 Date: 02-26-2010

Principal Lighting Designer's Declaration

I certify that this Certificate of Compliance documentation is accurate and complete, and accounts for all outdoor lighting power, including building mounted, pole mounted, as well as all other outdoor lighting designed for the site, and that Additional Lighting Power Allowances for Specific Applications or Additional Lighting Power Allowances for Ordinance Requirements have not been counted more than one time for the same area, in Accordance with Section 147 of the Standards.

Outdoor Lighting Mandatory Measures

Indicate location on building plans of Mandatory Measures Note Block: _____

LIGHTING COMPLIANCE FORMS & WORKSHEETS (check box if worksheet is included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, please refer to the Nonresidential Manual published by the California Energy Commission.

- OLTG-1C Certificate of Compliance. All 4 pages required on plans for all submittal.
- OLTG-2C (Page 1 of 3) Lighting Wattage Allowances for General Hardscape, Sales Frontage, or Ornamental Lighting. Optional on plans.
- OLTG-2C (Page 2 of 3) Lighting Wattage Allowances for Per Application or Per Area. Optional on plans.
- OLTG-2C (Page 3 of 3) Additional Lighting Power Allowance for Ordinance Requirements. Optional on plans.

CERTIFICATE OF COMPLIANCE (Page 2 of 4) OLTG-1C

COMPLIANCE FIXTURE/LIGHTING CONTROL SCHEDULE and FIELD INSPECTION CHECKLIST

Project Name: District 4 Various Fuel Canopies Date: 02-26-2010

INSTALLATION CERTIFICATE, OLTG-1-INST (Retain a copy and verify form is completed and signed.) Field Inspection

CERTIFICATE OF ACCEPTANCE, OLTG-2A (Retain a copy and verify form is completed and signed.) Field Inspection

Luminaire Schedule				Installed Watts						
A	B	C	D	E	F		G	H	I	
Name Or Item Tag	Luminaire Description See footnote below (i.e., lamp pole top shoe-box 400 watt metal halide)	Cutoff Designation	Watts per Luminaire	Special Features	How wattage was determined		Number of Luminaires	Installed Watts (D x G)	Field Inspector	
					Default From NA-8	According to S 130 (d or e)			Pass	Fail
MH1	2 Lamp pole top, 150 watt metal halide	✓	336		<input checked="" type="checkbox"/>	<input type="checkbox"/>	2	672	<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Enter total into OLTG; Page 4 of 4; Row H; Total Installed Watts:								672		

1. Type of luminaire (i.e.: post top, wall pack, surface, shoe box); for non-incandescent luminaires, indicate nominal lamp wattage and lamp type (i.e.: fluorescent incandescent, HID); ballast type (i.e.: electronic or magnetic); number of lamps and number of ballast per luminaire. For incandescent luminaires the luminaire wattage listed in column D shall be the maximum relamping rated wattage on a permanent factory-installed label on the luminaire. NOT the wattage of the lamp (bulb) used, in accordance with Section 130 (d or e).

2. If Fail then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary.

EXEMPT LUMINAIRES Field Inspection

Name or Symbol	Description of exempt luminaires in accordance with S 147

MANDATORY CONTROLS Field Inspection

#	Description	Location	#	Description	Location
TS	2 CH. time switch (Turn off @ 10PM 50% lights)	LCS in Fuel House Building			

SPECIAL FEATURES INSPECTION CHECKLIST (See Page 2 of 4 of OLTG-1C)

The local enforcement agency should pay special attention to the items specified in this checklist. These items require special written justification and documentation, and special verification. The local enforcement agency determines the adequacy of the justification, and may reject a building or design that otherwise complies based on the adequacy of the special justification and documentations submitted.

Field Inspector Notes or Discrepancies:

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala, CC, SM	Var	Var	134	160

REGISTERED ELECTRICAL ENGINEER DATE 7-30-10

IMRAN SAEED No. E 18781 Exp. 6-30-11 ELEC STATE OF CALIFORNIA

3-7-11 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.

CALIFORNIA STATE FIRE MARSHAL APPROVED

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

Reviewed by: *Jason D. DeWitt*

Approval date: 07-13-10

CSFM FILE #15-01-11-0089

DESIGN BY <i>Imran Saeed</i>	CHECKED <i>Beatrice Bindu</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	DIST 4 VARIOUS FUEL CANOPIES	SHEET EE1-1
				35-0054		
DETAILS BY <i>Linda Monson</i>	CHECKED <i>Imran Saeed</i>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3618 04000009271	POST MILE	SAN MATEO-HAYWARD MS	TITLE 24 COMPLIANCE
QUANTITIES BY <i>Imran Saeed</i>	CHECKED <i>Beatrice Bindu</i>			2.6		
DOES SD Imperial Rev. 1/07			DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	
					3/28/10 3/28/10 3/28/10 4/7/10 4/7/10 7/7/10 7/30/10	

EA 3A0901 ee1_01.dgn

CERTIFICATE OF COMPLIANCE (Page 3 of 4) OLTG-1C

Project Name: **District 4 Various Fuel Canopies** Date: **02-26-2010**

A. OUTDOOR LIGHTING ZONE

OUTDOOR LIGHTING ZONE: OLZ 1 OLZ 2 OLZ 3 OLZ 4

Is the Outdoor Lighting Zone: Default in accordance with S 10-114, or Amended by JHA

Complete the information below if the default Outdoor Lighting Zone has been amended by the local jurisdiction having authority (JHA):

- The site is a government designated park, recreation area, wildlife preserve, or portion thereof, and has been designated as LZ2 or LZ3, in accordance with Table 10-114-A, because the site is contained within such a zone.
- The local jurisdiction having authority has officially adopted a change to the State Default Lighting Zone and has notified the Energy Commission by providing the materials required in S 10-114(d) to the Executive Director.
- The adopted change is posted on the Energy Commission website.

B. ADDITIONAL LIGHTING POWER ALLOWANCE FOR ORDINANCE REQUIREMENTS

Are additional lighting power allowances for ordinance in Table 147-C used? Yes No

Complete the information below if the additional lighting power allowances for ordinance requirements are used:

- The local jurisdiction having authority has officially adopted specific outdoor light levels, which are express as average or minimum footcandle levels, by following a public notification review, and comment about the proposed change.
- The local jurisdiction having authority which adopted specific outdoor light levels and has notified the Commission by providing the following materials required S 10-114(f) to the Executive Director.

C. ACCEPTANCE FORMS

Required Acceptance Tests

Designer:
This form is to be used by the designer and attached to the plans. Listed below is the acceptance tests for for the Lighting system, LTG-2A. The designer is required to check the acceptance tests and list all control devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance. If all the lighting system or control of a certain type requires a tests, list the different lighting and the number of systems. The NA7 Section in the Appendix of the Nonresidential Reference Appendices Manual describes the test. Since this form will be a part of the plans, completion of this section will allow the responsible party to budget for the scope of work appropriately. Forms can be grouped by type of Luminaire controlled.

Enforcement Agency:

System Acceptance. Before Occupancy Permit is granted for a newly constructed building or space or when evr new lighting system with controls is installed in the building or space shall be certified as meeting the Acceptance Requirements. The LTG-2A form is not considered a complete form and is not to be accepted by the enforcement agency unless the boxes are checked and/or filled and signed. In addition, a Certificate of Acceptance forms shall be submitted to the enforcement that certifies plans, specifications, installation certificates and, operating and maintenance information meet the requirements of S 10-103(b) of Title 24 Part 6. The field inspector must receive the properly filled out and signed forms before the building can receive final occupancy. A copy of the LTG-2A for each different lighting luminaire control(s) must be provided to the owner of the building for their records.

Certificate of Acceptance

		Luminaires Controlled		OLTG-2A
Equipment Requiring Testing	Description	Number of Like Controls	Location	Outdoor Lighting Acceptance Tests
OLSC, ATS	Turn off 50% lights after 10 pm	(2) MH1	LCS in Fuel House Building	

1. Insert: OMS for Outdoor Motion Sensor; OLSC for Outdoor Lighting Shutoff Controls; OP for Outdoor Photocontrol; ATS for Astronomical Time Switch; and, STS for Standard (non-astronomical) Time Switch acceptance.

2008 Nonresidential Compliance Forms

August 2009

CERTIFICATE OF COMPLIANCE (Page 4 of 4) OLTG-1C

COMPLIANCE FIXTURE/LIGHTING CONTROL SCHEDULE and FIELD INSPECTION CHECKLIST

Project Name: **District 4 Various Fuel Canopies** Date: **02-26-2010**

ALLOWED AND INSTALLED OUTDOOR LIGHTING POWER

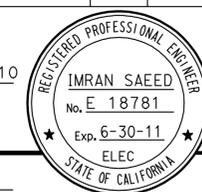
		Lighting Wattage Power Allowance
A	Lighting power allowance for general hardscape (from OLTG-2C Page 1 of 3)	—
B	Specific application lighting wattage per unit length (from OLTG-2C Page 1 of 3)	—
C	Specific application wattage allowance for ornamental lighting (from OLTG-2C Page 1 of 3)	—
D	Specific application wattage allowance per application (from OLTG-2C Page 2 of 3)	336
E	Specific application lighting wattage allowance per area (from OLTG-2C Page 2 of 3)	336
F	Additional lighting power allowance for ordinance requirements (from OLTG-2C Page 3 of 3)	—
G	Total Allowed Wattage=Sum of rows A through F	672
H	Total installed Watts from Luminaire Schedule, (from OLTG-1C Page 2 of 4)	672
Complies if installed Wattage in row H is less than or equal to the Total Installed Wattage in row G		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

2008 Nonresidential Compliance Forms

August 2009

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala, CC, SM	Var	Var	135	160

Imran Saeed
REGISTERED ELECTRICAL ENGINEER DATE 7-30-10



3-7-11
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.

CALIFORNIA STATE FIRE MARSHAL APPROVED

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

Reviewed by: *JASON D. DeWITT*
Approval date: 07-13-10

CSFM FILE #15-01-11-0089

DESIGN	BY <i>Imran Saeed</i>	CHECKED <i>Beatrice Bindu</i>
DETAILS	BY <i>Linda Monson</i>	CHECKED <i>Imran Saeed</i>
QUANTITIES	BY <i>Imran Saeed</i>	CHECKED <i>Beatrice Bindu</i>

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO. 35-0054
POST MILE 2.6

DIST 4 VARIOUS FUEL CANOPIES

SAN MATEO-HAYWARD MS

TITLE 24 COMPLIANCE

SHEET **EE1-2**

CALIFORNIA STATE FIRE MARSHAL APPROVED
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by: *[Signature]*
 Approval date: JASON D. DeWITT 07-13-10
 CSFM FILE #15-01-11-0089

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Alameda, Contra Costa, San Mateo	Var	Var	136	160

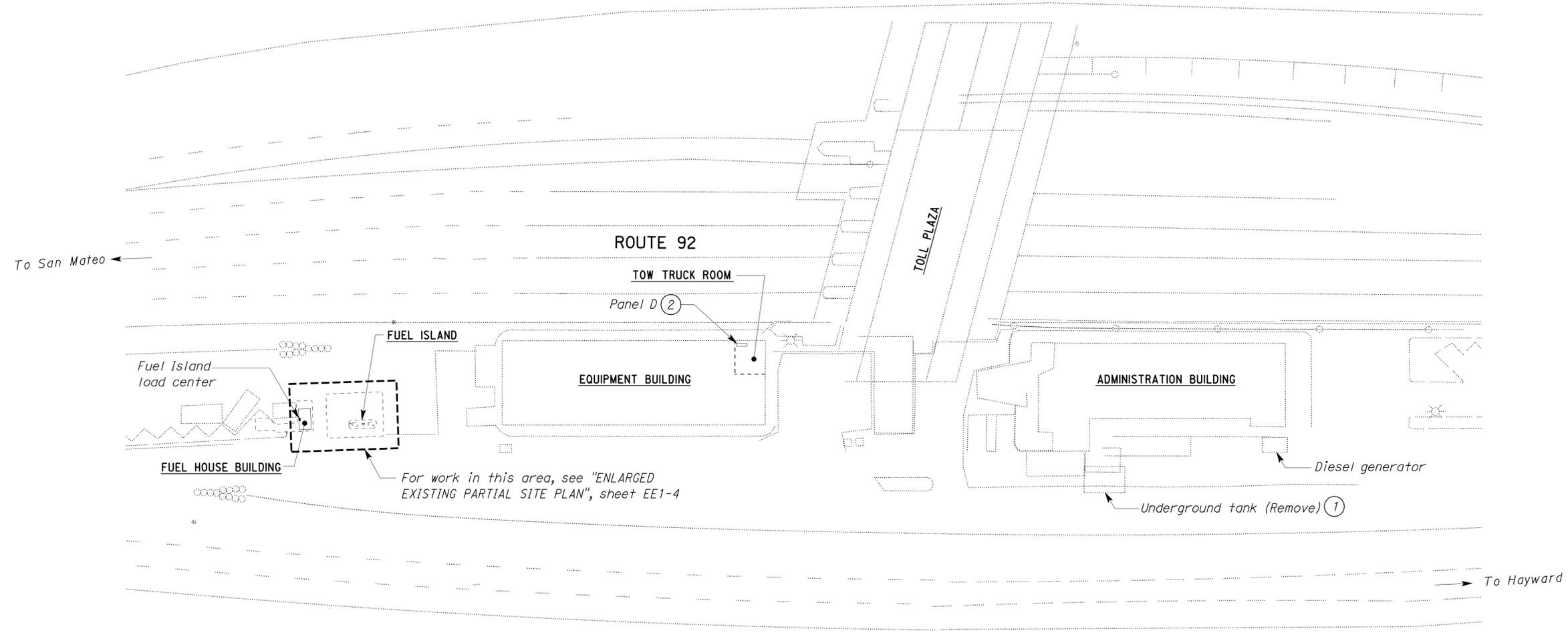
7-30-10
 REGISTERED ELECTRICAL ENGINEER DATE

3-7-11
 PLANS APPROVAL DATE

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- Notes:**
- ① See Architectural sheets for removal.
 - ② Panel D is GE Type NLAB, 100 A, 120/208 V, 3-phase, 4-wire.



For work in this area, see "ENLARGED EXISTING PARTIAL SITE PLAN", sheet EE1-4

PARTIAL SITE PLAN
 SCALE 1" = 30'-0"



 DESIGN SUPERVISOR DESIGN ENGINEER	DESIGN BY <i>Imran Saeed</i>	CHECKED <i>Beatrice Bindu</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 35-0054	DIST 4 VARIOUS FUEL CANOPIES SAN MATEO-HAYWARD MS	SHEET EE1-3 OF
	DETAILS BY <i>Linda Monson</i>	CHECKED <i>Imran Saeed</i>		ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	POST MILE 2.6		
	QUANTITIES BY <i>Imran Saeed</i>	CHECKED <i>Beatrice Bindu</i>	UNIT PROJECT NUMBER & PHASE 3618 04000009271	EA 3A0901	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 3/28/10 3/28/10 4/15/10 7/7/10 7/30/10	SHEET OF

General Notes:

- A. Salvage all removed electrical materials as directed by the Engineer.
- B. Where applicable, after equipment removal, cut and remove associated conductors and exposed portion of conduit. Abandon underground portion of conduit.
- C. For details of removal work, see Architectural plans.
- D. Not all existing equipment are shown on this Plan.

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

Reviewed by: *[Signature]*
 JASON D. DeWITT
 Approval date: 07-13-10

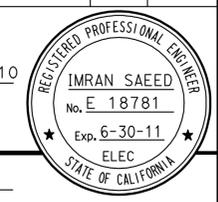
CSFM FILE #15-01-11-0089

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Alameda, Contra Costa, Santa Marin	Var	Var	137	160

REGISTERED ELECTRICAL ENGINEER DATE 7-30-10

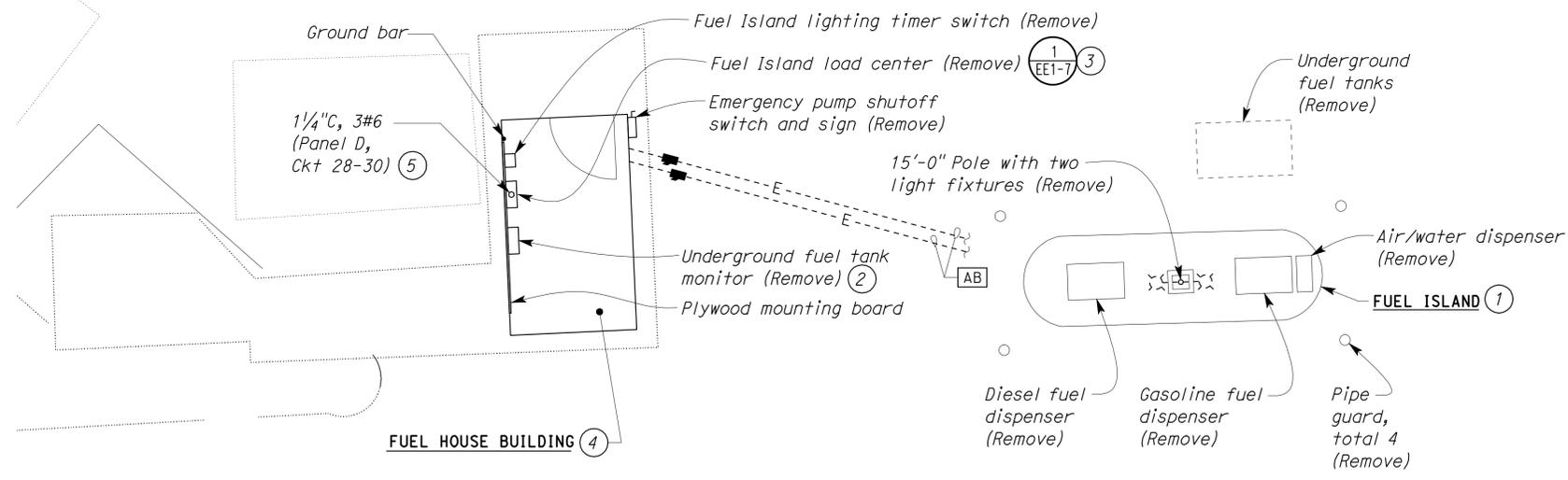
3-7-11
 PLANS APPROVAL DATE

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Notes:

- ① Disconnect and remove conductors to Fuel Island light, air/water dispenser, and two fuel dispenser conductors from Fuel Island load center. For existing Fuel Island load center details, see ¹EE1-7.
- ② Disconnect and remove tank monitor conductor from Fuel Island Load Center.
- ③ Fuel Island Load Center is fed from Panel D (Ckt 28-30), located inside Tow Truck Room in Equipment Building. For Panel D location details, see sheet EE1-3.
- ④ Disconnect Gas House light and Gas House receptacle conductors from Fuel Island Load Center. Install wire caps and leave in place for connecting to new Fuel Island Panel F. For new Fuel Island Panel F details, see ²EE1-7.
- ⑤ Disconnect Fuel Island Load Center feeder conductors from its main circuit breaker. Install a new junction box at 1 1/4" C, with 3#6 feeder conductors. Install wire caps to conductors and leave inside junction box for connecting to new Fuel Island Panel F through new emergency shut off switch. For new Fuel Island Panel F power block diagram connection, see ²EE1-7.



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



THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN BY <i>Imran Saeed</i> CHECKED <i>Beatrice Bindu</i>	DETAILS BY <i>Linda Monson</i> CHECKED <i>Imran Saeed</i>	QUANTITIES BY <i>Imran Saeed</i> CHECKED <i>Beatrice Bindu</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 35-0054	DIST 4 VARIOUS FUEL CANOPIES SAN MATEO-HAYWARD MS	ENLARGED EXISTING PARTIAL SITE PLAN	SHEET OF EE1-4						
					POST MILE 2.6				REVISION DATES (PRELIMINARY STAGE ONLY)					
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				UNIT PROJECT NUMBER & PHASE 3618 04000009271	DISREGARD PRINTS BEARING EARLIER REVISION DATES	<table border="1"> <tr> <td>3/28/10</td> <td>3/28/10</td> <td>4/7/10</td> <td>4/7/10</td> <td>7/7/10</td> <td>7/30/10</td> </tr> </table>			3/28/10	3/28/10	4/7/10	4/7/10	7/7/10	7/30/10
3/28/10	3/28/10	4/7/10	4/7/10	7/7/10	7/30/10									

CALIFORNIA STATE FIRE MARSHAL APPROVED
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approvals subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by: *[Signature]*
 Approval date: JASON D. DeWITT 07-13-10
 CSFM FILE #15-01-11-0089

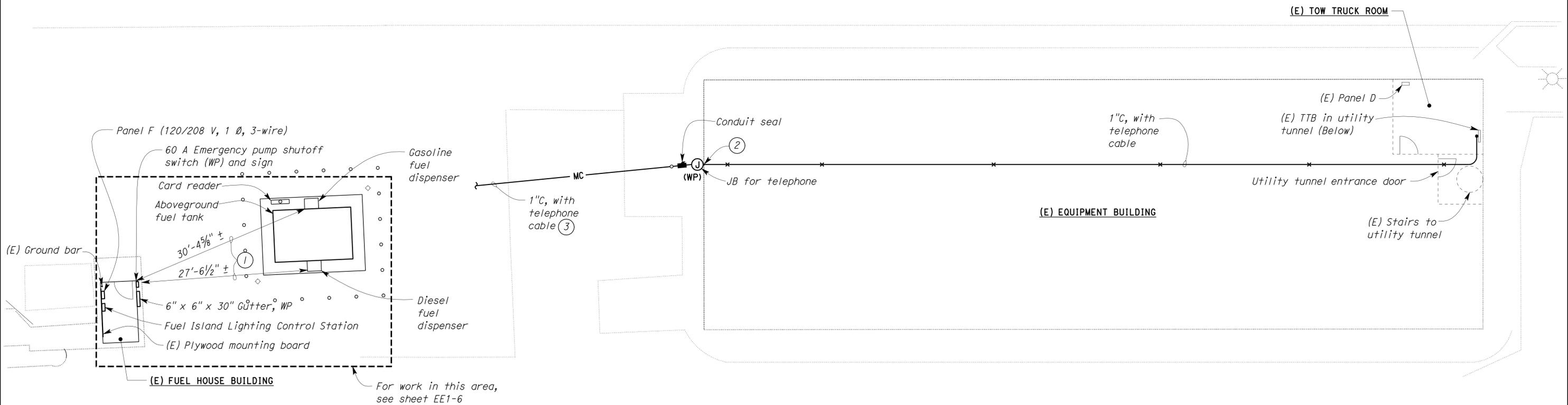
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Alameda, Contra Costa, San Mateo	Var	Var	138	160

REGISTERED ELECTRICAL ENGINEER *[Signature]* 7-30-10 DATE
 IMRAN SAEED No. E 18781
 Exp. 6-30-11
 ELEC
 STATE OF CALIFORNIA

3-7-11
 PLANS APPROVAL DATE

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- Notes:
- Distance between fuel dispenser and emergency shutoff switch not to exceed 100'-0" (C.F.C. Sec 2203.2).
 - Core drill through existing wall for conduit penetration.
 - To card reader at Fuel Island. For continuation, see sheet EE1-6.



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



THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN BY <i>Imran Saeed</i> CHECKED <i>Beatrice Bindu</i>	DETAILS BY <i>Linda Monson</i> CHECKED <i>Imran Saeed</i>	QUANTITIES BY <i>Imran Saeed</i> CHECKED <i>Beatrice Bindu</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 35-0054	DIST 4 VARIOUS FUEL CANOPIES SAN MATEO-HAYWARD MS	SHEET EE1-5
					POST MILE 2.6		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				UNIT PROJECT NUMBER & PHASE 3618 04000009271	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
DOES SD Imperial Rev. 1/07				EA 3A0901	3/28/10 3/28/10 4/15/10 4/15/10 7/30/10		11-MAR-2011 14:21 ee1_05.dgn

General Notes:

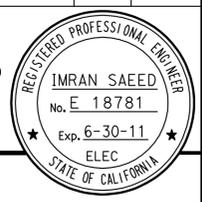
- A. Installation shall meet requirements of 2007 California Electrical Code, Article 514.
- B. The Contractor shall locate existing utility lines and conduits before trenching. Care shall be taken not to damage existing underground conduits and utility lines.
- C. The location of stubbed up conduits, in the tank area, are shown arbitrarily only. Coordinate with the fuel tank manufacturer for proper location of stubbed up conduits. Connection of fuel dispensers and controls shall be per manufacturer's requirements.
- D. For exact location of lighting fixtures, see Architectural sheets.

CALIFORNIA STATE FIRE MARSHAL APPROVED
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by: *[Signature]*
 JASON D. DEWITT
 Approval date: 07-13-10
 CSFM FILE #15-01-11-0089

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Alameda, Contra Costa, San Mateo	Var	Var	139	160

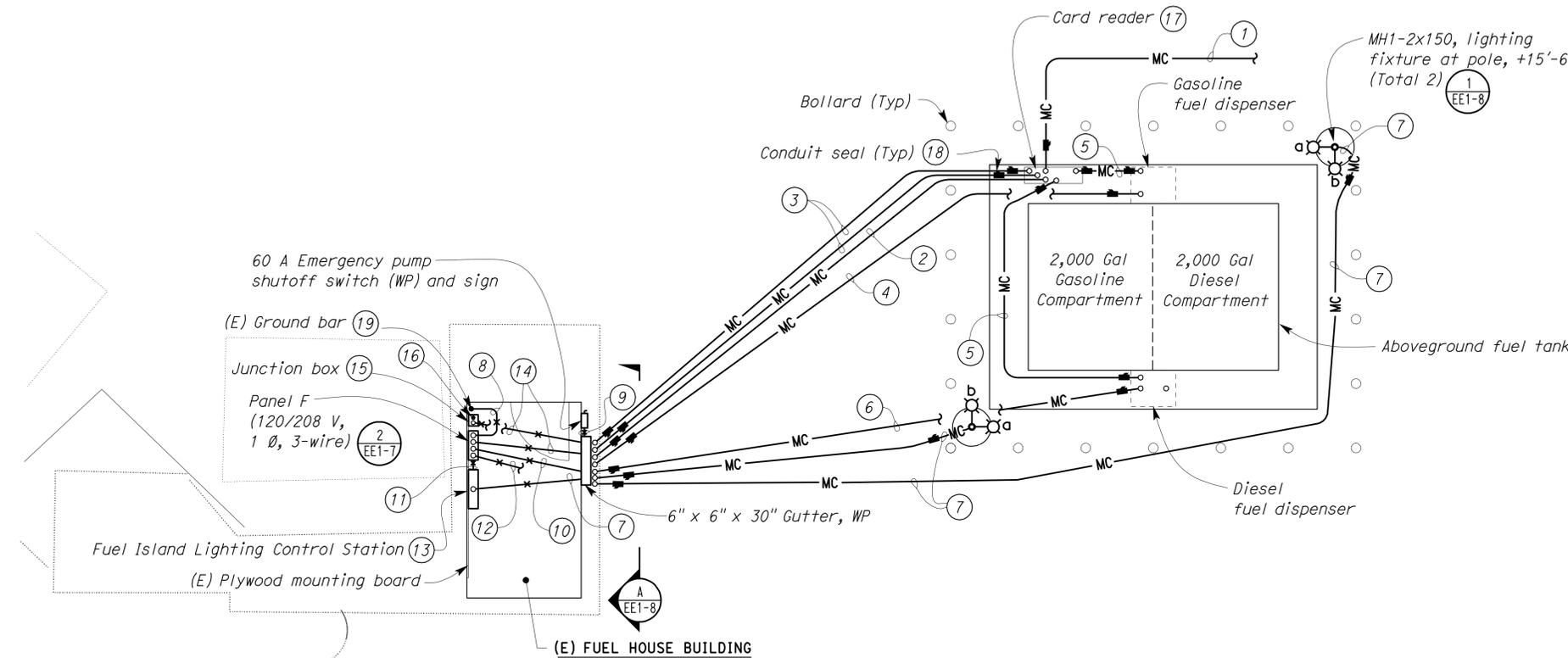
3-7-11
 PLANS APPROVAL DATE

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Notes:

- ① 1" C, with telephone cable, to junction box at outside wall of existing Equipment Building. For continuation of conduit, see sheet EE1-5.
- ② 3/4" C, 2#10, 1#10G (Power to card reader).
- ③ 3/4" C, with pull rope, to card reader (Spare).
- ④ 3/4" C, 2#10, 1#10G (Power to gasoline fuel dispenser).
- ⑤ (2) 3/4" C, control conductors as required by fuel tank manufacturer.
- ⑥ 3/4" C, 2#10, 1#10G (Power to diesel fuel dispenser).
- ⑦ 3/4" C, 4#10, 1#10G.
- ⑧ 1/2" C, 1#8G, clamped to existing ground bar.
- ⑨ 1 1/2" C, 6#6, 1#8G.
- ⑩ 1" C, 6#10, 1#10G (Ckt F1, F2, F5).
- ⑪ 3/4" C, 2#10, 1#10G (Ckt 9).
- ⑫ 3/4" C, 4#12, 1#12G, to existing receptacle (Ckt F10), and existing light fixture (Ckt F12), inside existing Fuel House Building.
- ⑬ For Fuel Island Lighting Control Station (LCS) wiring schematic diagram, see sheet EE1-7.
- ⑭ 1" C, 3#6, 1#8G.
- ⑮ See note ⑤ on sheet EE1-4.
- ⑯ (E) 1 1/4" C, 3#6, (Panel D, Ckt 28-30)
- ⑰ State-furnished equipment to be installed by the Contractor.
- ⑱ Conduit seals shall be listed per California Electrical Code, Section 514-9 (A) and 514-9 (B).
- ⑳ The Contractor shall verify resistance of existing ground during installation. Install additional grounding electrode if resistance of grounding electrode system is more than 25 ohms per California Electrical Code, Section 250-56.



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

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN BY <i>Imran Saeed</i> CHECKED <i>Beatrice Bindu</i>	DETAILS BY <i>Linda Monson</i> CHECKED <i>Imran Saeed</i>	QUANTITIES BY <i>Imran Saeed</i> CHECKED <i>Beatrice Bindu</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 35-0054	DIST 4 VARIOUS FUEL CANOPIES SAN MATEO-HAYWARD MS	SHEET EE1-6
					POST MILE 2.6		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				UNIT PROJECT NUMBER & PHASE 3618 04000009271	DISREGARD PRINTS BEARING EARLIER REVISION DATES		SHEET OF
DOES SD Imperial Rev. 1/07				EA 3A0901	REVISION DATES (PRELIMINARY STAGE ONLY)		OF

15-MAR-2011 10:04 ee1_06.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Alameda, Contra Costa, San Mateo	Var	Var	140	160

REGISTERED ELECTRICAL ENGINEER	DATE
<i>Imran Saeed</i>	7-30-10
PLANS APPROVAL DATE	
3-7-11	

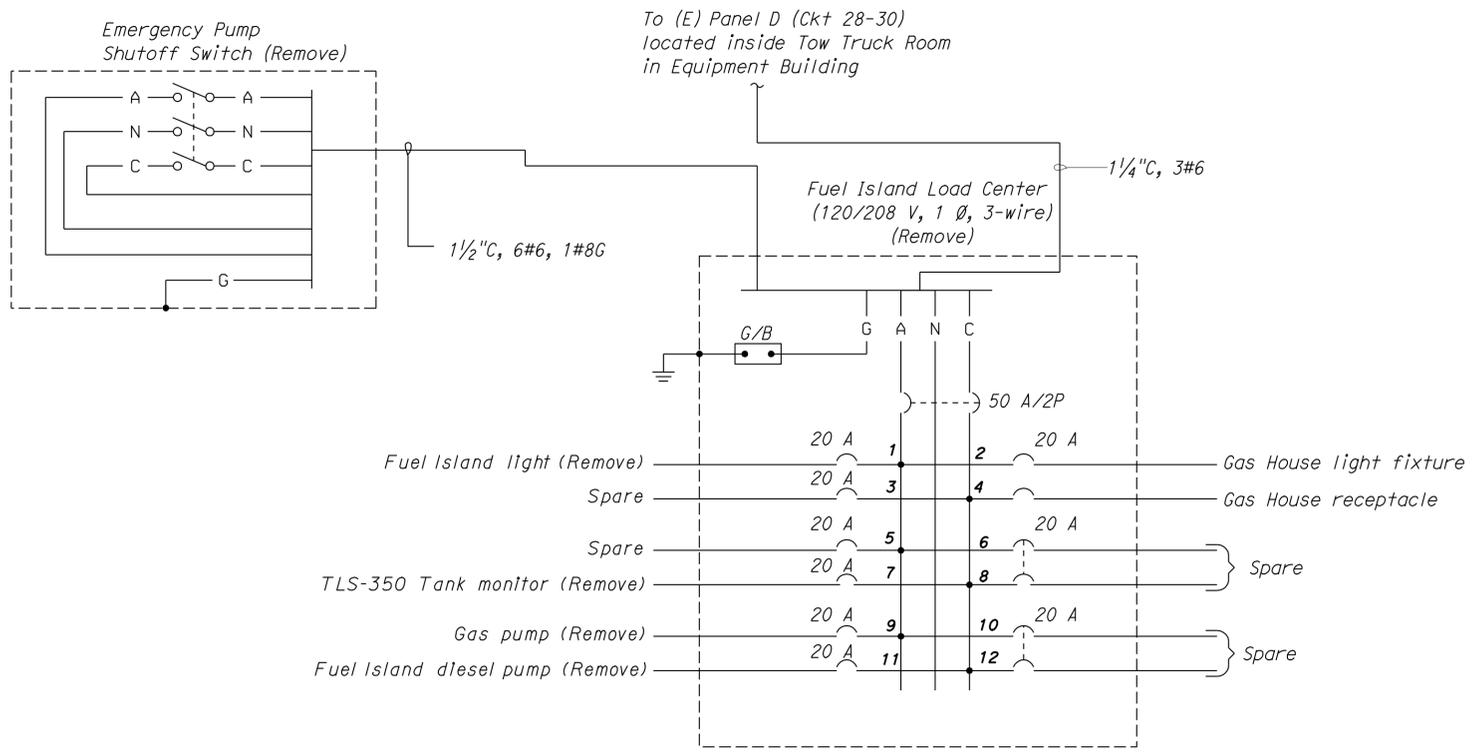
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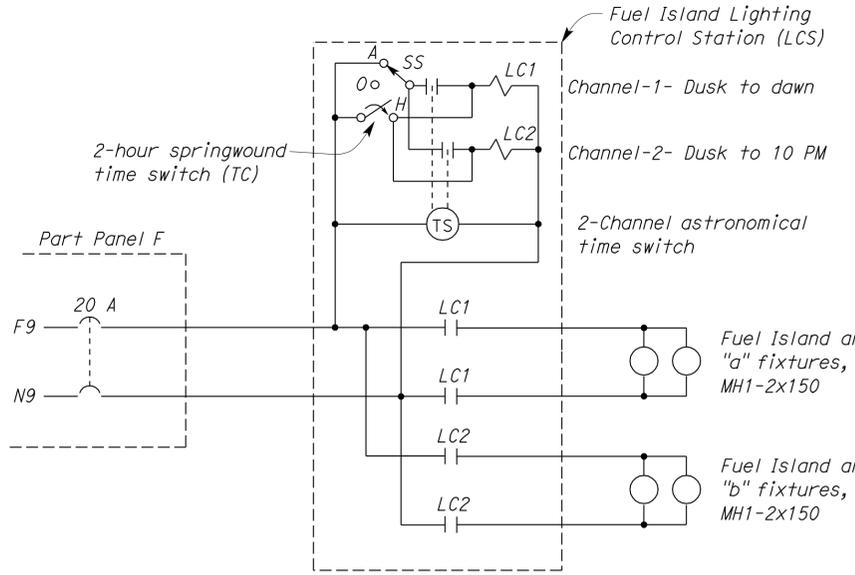
CALIFORNIA STATE FIRE MARSHAL APPROVED

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

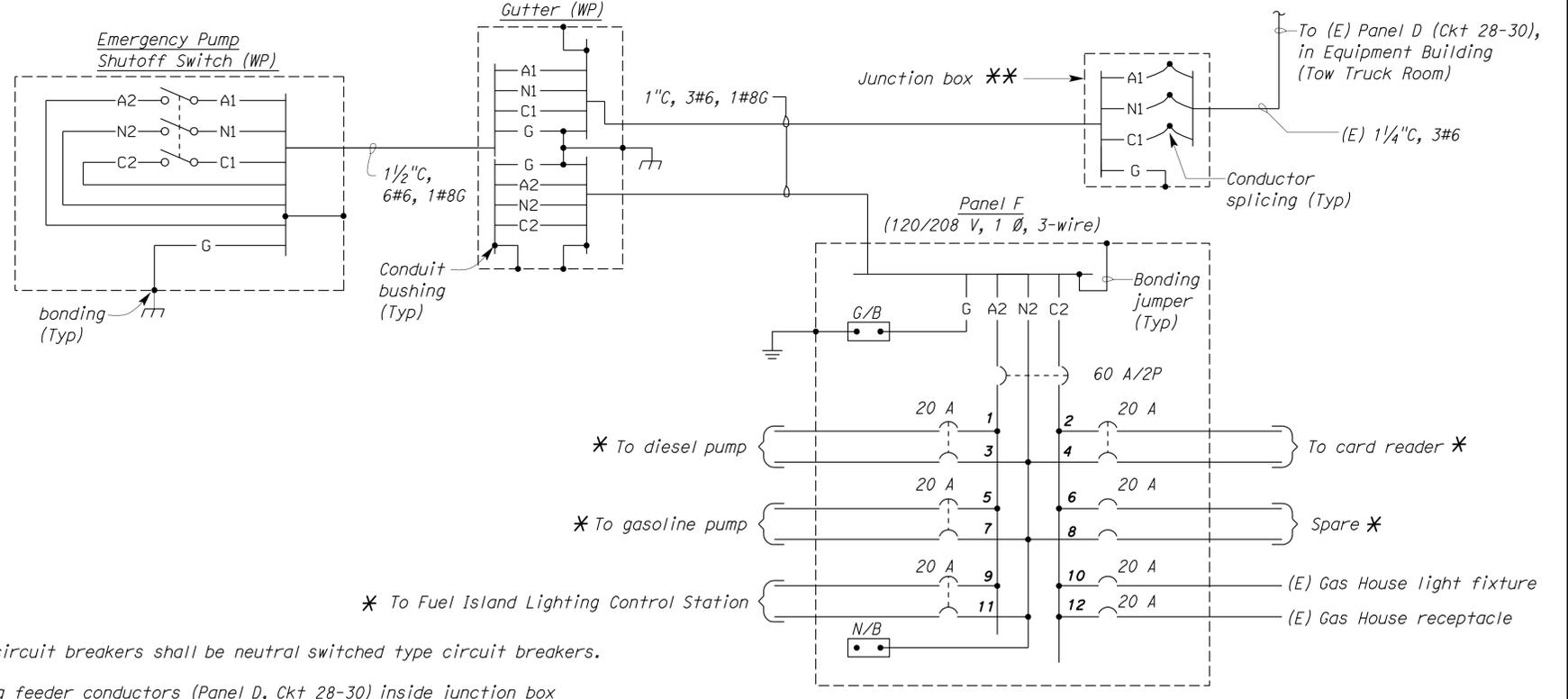
Reviewed by: *Jason D. DeWitt*
 Approval date: 07-13-10
 CSFM FILE #15-01-11-0089



1 EXISTING FUEL ISLAND LOAD CENTER POWER BLOCK DIAGRAM



3 LIGHTING CONTROL SCHEMATIC DIAGRAM



2 NEW FUEL ISLAND PANEL F POWER BLOCK DIAGRAM CONNECTION

* These branch circuit breakers shall be neutral switched type circuit breakers.
 ** Splice existing feeder conductors (Panel D, Ckt 28-30) inside junction box to new conductors, to feed Panel F through emergency shutoff switch.

NO SCALE

DESIGN	BY	Imran Saeed	CHECKED	Beatrice Bludu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	35-0054	DIST 4 VARIOUS FUEL CANOPIES	SAN MATEO-HAYWARD MS	DETAILS	SHEET OF	EE1-7	
	DETAILS	BY	Linda Monson	CHECKED			Imran Saeed	POST MILE						2.6
	QUANTITIES	BY	Imran Saeed	CHECKED			Beatrice Bludu	UNIT						3618

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

PROJECT NUMBER & PHASE: 04000009271

EA 3A0901

ee1_07.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Alameda, Contra Costa, San Mateo	Var	Var	141	160

REGISTERED ELECTRICAL ENGINEER	DATE
<i>Imran Saeed</i>	7-30-10

PLANS APPROVAL DATE
3-7-11

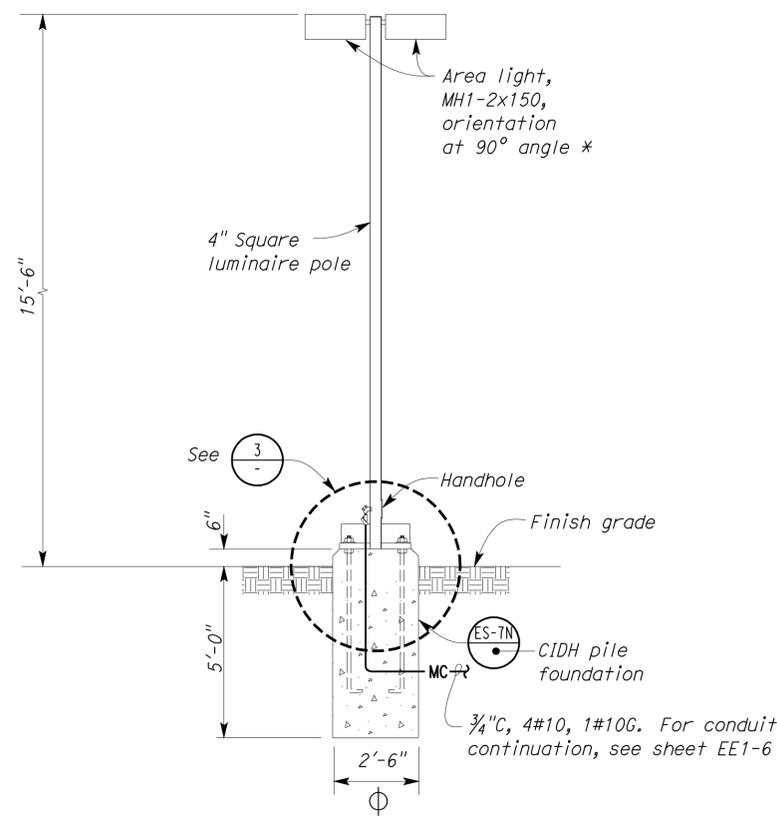
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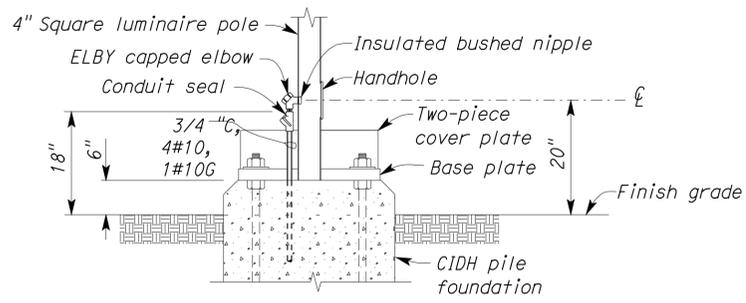
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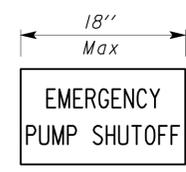
Reviewed by: *Jason D. DeWitt*
 Approval date: 07-13-10
 CSFM FILE #15-01-11-0089



1 DETAIL POLE MOUNTED LIGHTING FIXTURE
 NO SCALE
 * See sheet EE1-6 for exact orientation of lighting fixtures.

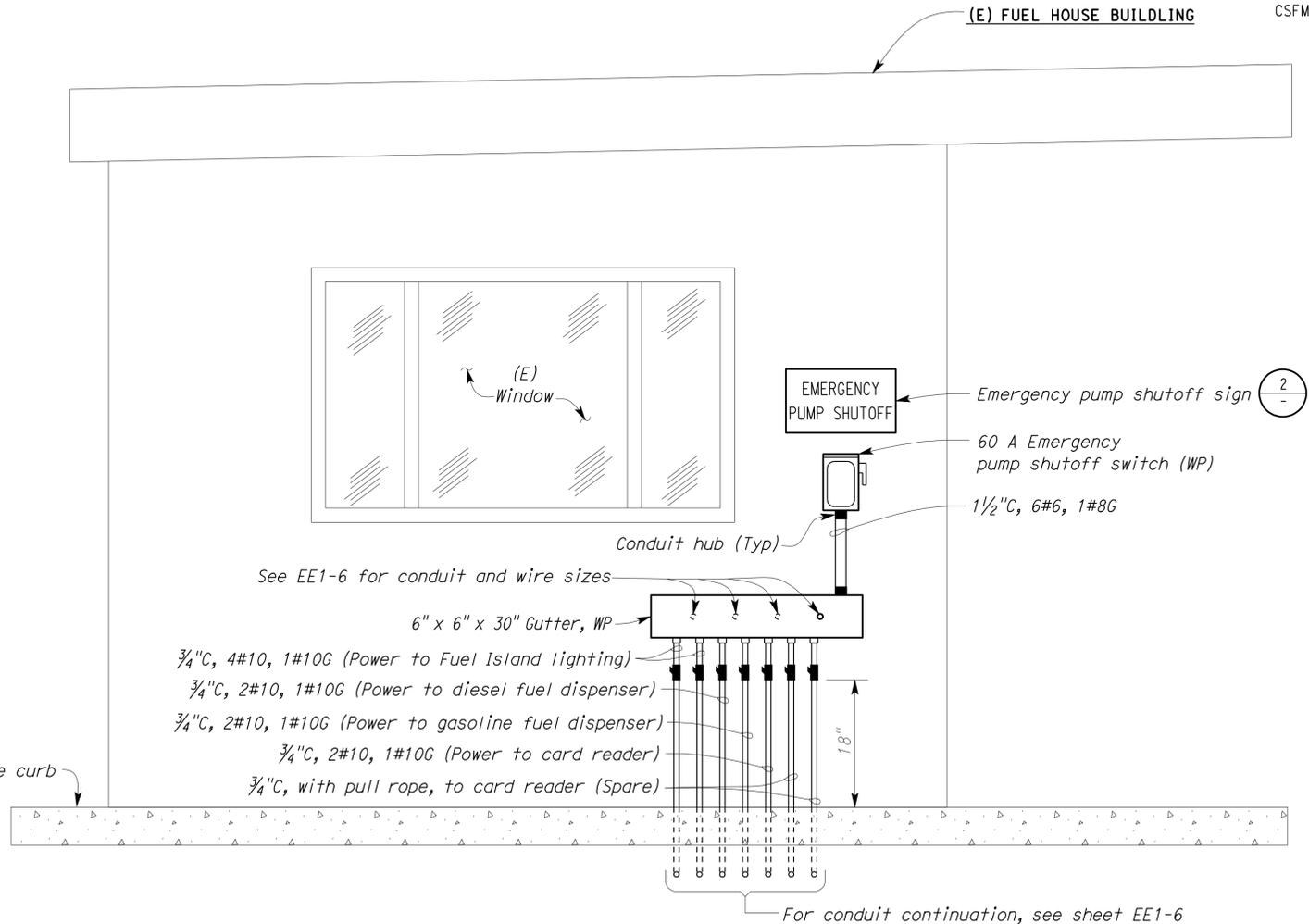


3 DETAIL
 NO SCALE



Note:
 Sign shall be 16 ga. baked enamel steel with red letters on white background. Letters shall be 2" high. Sign shall be fastened to wall with at least six mechanical fasteners. Adhesive shall not be used. Provide metal shims for each corner, at back of sign, against uneven surface, for a plumb sign.

2 SIGN DETAIL
 NO SCALE



A FRONT ELEVATION GAS HOUSE BUILDING
 NO SCALE

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN	BY	Imran Saeed	CHECKED	Beatrice Bindu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	35-0054	DIST 4 VARIOUS FUEL CANOPIES SAN MATEO-HAYWARD MS	SHEET EE1-8					
	DETAILS	BY	Linda Monson	CHECKED			Imran Saeed	POST MILE			2.6				
	QUANTITIES	BY	Imran Saeed	CHECKED			Beatrice Bindu	UNIT PROJECT NUMBER & PHASE			3618 04000009271	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0	1	2	3	3/10/10	4/6/10	4/15/10	7/9/10	7/30/10	11	14

CERTIFICATE OF COMPLIANCE (Page 1 of 4) OLTG-1C

Project Name: **District 4 Various Fuel Canopies** Date: **02-26-2010**

Project Address: **2581 North Main St.
Walnut Creek, CA 94596** Total Hardscape Illuminated Area: **-**

General Information
Phase of Construction: New Construction Addition Alteration

Documentation Author's Declaration Statement
• I certify that this Certificate of Compliance documentation is accurate and complete.

Name: **Imran Saeed** Signature: *Imran Saeed*

Company: **CalTrans** Date: **02-26-2010**

Address: **1801 30th Street** If applicable: CEA # CEPE #

City/State/Zip: **Sacramento, CA 95816** Phone: **(916) 227-8202**

Principal Lighting Designer's Declaration Statement
• I am eligible under Division 3 of the California Business and Professions Code to accept responsibility for the lighting design.
• This Certificate of Compliance identifies the lighting features and performance specification required for compliance with Title 24, Pages 1 and 6 of the California Code of Regulations.
• The design features represented on this Certificate of Compliance are consistent with the information provided to document this design on the other applicable compliance forms, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

Name: **Imran Saeed** Signature: *Imran Saeed*

Company: **CalTrans** Phone: **(916) 227-8202**

Address: **1801 30th Street** License # **E 18781**

City/State/Zip: **Sacramento, CA 95816** Date: **02-26-2010**

Principal Lighting Designer's Declaration
 I certify that this Certificate of Compliance documentation is accurate and complete, and accounts for all outdoor lighting power, including building mounted, pole mounted, as well as all other outdoor lighting designed for the site, and that Additional Lighting Power Allowances for Specific Applications or Additional Lighting Power Allowances for Ordinance Requirements have not been counted more than one time for the same area, in accordance with Section 147 of the Standards.

Outdoor Lighting Mandatory Measures
Indicate location on building plans of Mandatory Measures Note Block: _____

LIGHTING COMPLIANCE FORMS & WORKSHEETS (check box if worksheet is included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, please refer to the Nonresidential Manual published by the California Energy Commission.

- OLTG-1C Certificate of Compliance. All 4 pages required on plans for all submittal.
- OLTG-2C (Page 1 of 3) Lighting Wattage Allowances for General Hardscape, Sales Frontage, or Ornamental Lighting. Optional on plans.
- OLTG-2C (Page 2 of 3) Lighting Wattage Allowances for Per Application or Per Area. Optional on plans.
- OLTG-2C (Page 3 of 3) Additional Lighting Power Allowance for Ordinance Requirements. Optional on plans.

CERTIFICATE OF COMPLIANCE (Page 2 of 4) OLTG-1C

COMPLIANCE FIXTURE/LIGHTING CONTROL SCHEDULE and FIELD INSPECTION CHECKLIST

Project Name: **District 4 Various Fuel Canopies** Date: **02-26-2010**

INSTALLATION CERTIFICATE, OLTG-1-INST (Retain a copy and verify form is completed and signed.) Field Inspection

CERTIFICATE OF ACCEPTANCE, OLTG-2A (Retain a copy and verify form is completed and signed.) Field Inspection

Luminaire Schedule				Installed Watts						
A Name Or Item Tag	B Luminaire Description See footnote below (i.e., lamp pole top shoe-box 400 watt metal halide)	C Cutoff Designation	D Watts per Luminaire	E Special Features	F How wattage was determined		G Number of Luminaires	H Installed Watts (D x G)	I Field Inspector	
					Default From NA-8	According to S 130 (d or e)			Pass	Fail
MH3	1 Lamp ceiling mount, 150 watt metal halide	✓	168	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	672	<input type="checkbox"/>	<input type="checkbox"/>
MH2	1 Lamp pole-top, 150 watt metal halide	✓	168	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	168	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Enter total into OLTG; Page 4 of 4; Row H; Total Installed Watts:								840		

1. Type of luminaire (i.e.: post top, wall pack, surface, shoe box); for non-incandescent luminaires, indicate nominal lamp wattage and lamp type (i.e.: fluorescent incandescent, HID); ballast type (i.e.: electronic or magnetic); number of lamps and number of ballast per luminaire. For incandescent luminaires the luminaire wattage listed in column D shall be the maximum relamping rated wattage on a permanent factory-installed label on the luminaire. NOT the wattage of the lamp (bulb) used, in accordance with Section 130 (d or e).
2. If Fail then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary.

EXEMPT LUMINAIRES Field Inspection

Name or Symbol	Description of exempt luminaires in accordance with S 147

MANDATORY CONTROLS Field Inspection

#	Description	Location	#	Description	Location
TS	2 CH. time switch (Turn off 50% lights @ 10 pm)	LCS at Crew Building outside wall			

SPECIAL FEATURES INSPECTION CHECKLIST (See Page 2 of 4 of OLTG-1C)
The local enforcement agency should pay special attention to the items specified in this checklist. These items require special written justification and documentation, and special verification. The local enforcement agency determines the adequacy of the justification, and may reject a building or design that otherwise complies based on the adequacy of the special justification and documentations submitted.

Field Inspector Notes or Discrepancies:

DIST. 04	COUNTY Ala, CC, SM	ROUTE Var	POST MILES TOTAL PROJECT Var	SHEET NO. 142	TOTAL SHEETS 160
----------	--------------------	-----------	------------------------------	---------------	------------------

REGISTERED ELECTRICAL ENGINEER *Imran Saeed* DATE 02-26-10

3-7-11 PLANS APPROVAL DATE

REG. PROFESSIONAL ENGINEER IMRAN SAEED No. E 18781 Exp. 6/30/11 ELEC STATE OF CALIFORNIA

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CALIFORNIA STATE FIRE MARSHAL APPROVED

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Reviewed by: *JASON D. DEWITT*
Approval date: 07-13-10
CSFM FILE #15-01-11-0089

DESIGN BY <i>Imran Saeed</i> CHECKED <i>Beatrice Bindu</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 28M5738	DISTRICT 4 VARIOUS FUEL CANOPIES	SHEET EE2-1	
			POST MILE 15.6			WALNUT CREEK MAINTENANCE STATION - WEST
			TITLE 24 COMPLIANCE			
DETAILS BY <i>Kathl Andreasen</i> CHECKED <i>Imran Saeed</i>	UNIT PROJECT NUMBER & PHASE 3618 04000009271	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF		
QUANTITIES BY <i>Imran Saeed</i> CHECKED <i>Beatrice Bindu</i>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	EA 3A0901	5/29/09 3/7/10 3/23/10 4/7/10 4/7/10 4/7/10 7/30/10			

DOES SD Imperial Rev. 1/07 ee2_01.dgn

CERTIFICATE OF COMPLIANCE (Page 3 of 4) OLTG-1C

Project Name: **District 4 Various Fuel Canopies** Date: **02-26-2010**

A. OUTDOOR LIGHTING ZONE

OUTDOOR LIGHTING ZONE: OLZ 1 OLZ 2 OLZ 3 OLZ 4

Is the Outdoor Lighting Zone: Default in accordance with S 10-114, or Amended by JHA

Complete the information below if the default Outdoor Lighting Zone has been amended by the local jurisdiction having authority (JHA):

- The site is a government designated park, recreation area, wildlife preserve, or portion thereof, and has been designated as LZ2 or LZ3, in accordance with Table 10-114-A, because the site is contained within such a zone.
- The local jurisdiction having authority has officially adopted a change to the State Default Lighting Zone and has notified the Energy Commission by providing the materials required in S 10-114(d) to the Executive Director.
- The adopted change is posted on the Energy Commission website.

B. ADDITIONAL LIGHTING POWER ALLOWANCE FOR ORDINANCE REQUIREMENTS

Are additional lighting power allowances for ordinance in Table 147-C used? Yes No

Complete the information below if the additional lighting power allowances for ordinance requirements are used:

- The local jurisdiction having authority has officially adopted specific outdoor light levels, which are express as average or minimum footcandle levels, by following a public notification review, and comment about the proposed change.
- The local jurisdiction having authority which adopted specific outdoor light levels and has notified the Commission by providing the following materials required S 10-114(f) to the Executive Director.

C. ACCEPTANCE FORMS

Required Acceptance Tests

Designer:

This form is to be used by the designer and attached to the plans. Listed below is the acceptance tests for for the Lighting system, LTG-2A. The designer is required to check the acceptance tests and list all control devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance. If all the lighting system or control of a certain type requires a tests, list the different lighting and the number of systems. The NA7 Section in the Appendix of the Nonresidential Reference Appendices Manual describes the test. Since this form will be a part of the plans, completion of this section will allow the responsible party to budget for the scope of work appropriately. Forms can be grouped by type of Luminaire controlled.

Enforcement Agency:

System Acceptance. Before Occupancy Permit is granted for a newly constructed building or space or when evr new lighting system with controls is installed in the building or space shall be certified as meeting the Acceptance Requirements. The LTG-2A form is not considered a complete form and is not to be accepted by the enforcement agency unless the boxes are checked and/or filled and signed. In addition, a Certificate of Acceptance forms shall be submitted to the enforcement that certifies plans, specifications, installation certificates and, operating and maintenance information meet the requirements of S 10-103(b) of Title 24 Part 6. The field inspector must receive the properly filled out and signed forms before the building can receive final occupancy. A copy of the LTG-2A for each different lighting luminaire control(s) must be provided to the owner of the building for their records.

Certificate of Acceptance

		Luminaires Controlled		OLTG-2A
Equipment Requiring Testing	Description	Number of Like Controls	Location	Outdoor Lighting Acceptance Tests
OLSC, ATS	Turn off 50% lights after 10 pm	(4) MH3	LCS at Crew Building outside wall	

1. Insert: OMS for Outdoor Motion Sensor; OLSC for Outdoor Lighting Shutoff Controls; OP for Outdoor Photocontrol; ATS for Astronomical Time Switch; and, STS for Standard (non-astronomical) Time Switch acceptance.

2008 Nonresidential Compliance Forms

August 2009

CERTIFICATE OF COMPLIANCE (Page 4 of 4) OLTG-1C

COMPLIANCE FIXTURE/LIGHTING CONTROL SCHEDULE and FIELD INSPECTION CHECKLIST

Project Name: **District 4 Various Fuel Canopies** Date: **02-26-2010**

ALLOWED AND INSTALLED OUTDOOR LIGHTING POWER

		Lighting Wattage Power Allowance
A	Lighting power allowance for general hardscape (from OLTG-2C Page 1 of 3)	—
B	Specific application lighting wattage per unit length (from OLTG-2C Page 1 of 3)	—
C	Specific application wattage allowance for ornamental lighting (from OLTG-2C Page 1 of 3)	—
D	Specific application wattage allowance per application (from OLTG-2C Page 2 of 3)	—
E	Specific application lighting wattage allowance per area (from OLTG-2C Page 2 of 3)	840
F	Additional lighting power allowance for ordinance requirements (from OLTG-2C Page 3 of 3)	—
G	Total Allowed Wattage=Sum of rows A through F	840
H	Total installed Watts from Luminaire Schedule, (from OLTG-1C Page 2 of 4)	840
Complies if installed Wattage in row H is less than or equal to the Total Installed Wattage in row G		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

2008 Nonresidential Compliance Forms

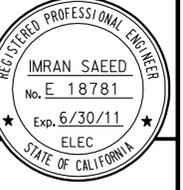
August 2009

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala, CC, SM	Var	Var	143	160

Imran Saeed
REGISTERED ELECTRICAL ENGINEER
07-30-10 DATE

3-7-11
PLANS APPROVAL DATE

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Reviewed by: *[Signature]*
JASON D. DEWITT
Approval date: 07-13-10

CSFM FILE #15-01-11-0089

DESIGN	BY <i>Imran Saeed</i>	CHECKED <i>Beatrice Bindu</i>
DETAILS	BY <i>Linda Monson</i>	CHECKED <i>Imran Saeed</i>
QUANTITIES	BY <i>Imran Saeed</i>	CHECKED <i>Beatrice Bindu</i>

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO.
28M5738
POST MILE
15.6

DISTRICT 4 VARIOUS FUEL CANOPIES
WALNUT CREEK MAINTENANCE STATION -
TITLE 24 COMPLIANCE

SHEET
EE2-2

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Alameda, Contra Costa, San Mateo	Var	Var	144	160

<i>Imran Saeed</i>	07-30-10
REGISTERED ELECTRICAL ENGINEER	DATE

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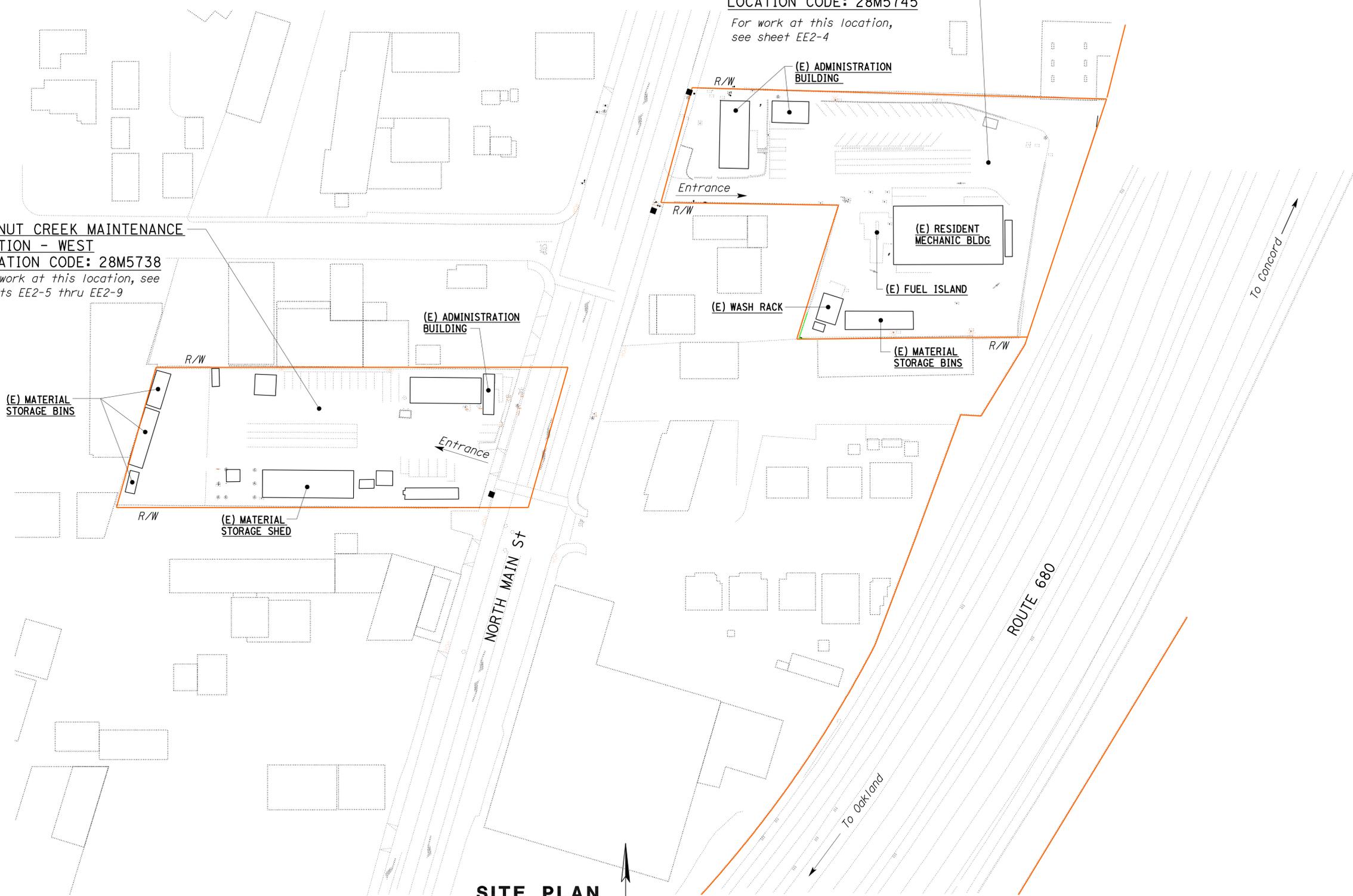
CSFM FILE #15-01-11-0089

WALNUT CREEK MAINTENANCE STATION - EAST
LOCATION CODE: 28M5745

For work at this location, see sheet EE2-4

WALNUT CREEK MAINTENANCE STATION - WEST
LOCATION CODE: 28M5738

For work at this location, see sheets EE2-5 thru EE2-9



SITE PLAN
 SCALE 1" = 60'-0"

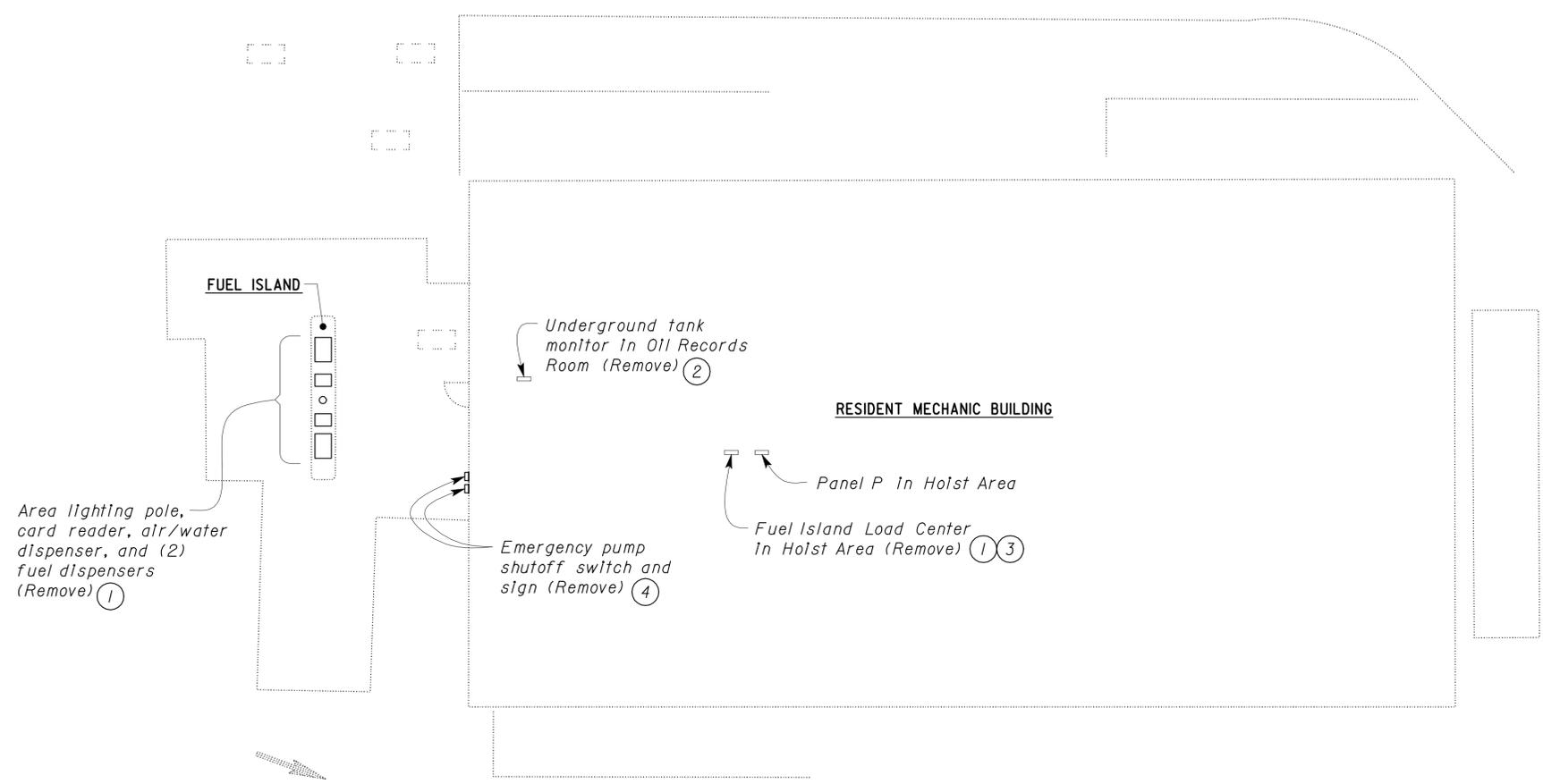
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			POST MILE 15.6			WALNUT CREEK MAINTENANCE STATIONS
DETAILS BY <i>Kathl Andreasen</i> CHECKED <i>Imran Saeed</i>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3618 04000009271	REVISION DATES (PRELIMINARY STAGE ONLY)			SHEET OF
QUANTITIES BY <i>Imran Saeed</i> CHECKED <i>Beatrice Bindu</i>			DISREGARD PRINTS BEARING EARLIER REVISION DATES →			
DOES SD Imperial Rev. 1/07			EA 3A0901			

11-MAR-2011 14:22
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 Approval date: JASON D. DeWITT 07-13-10
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala, CC, SM	Var	Var	145	160
<i>[Signature]</i> REGISTERED ELECTRICAL ENGINEER			07-30-10 DATE	REGISTERED PROFESSIONAL ENGINEER IMRAN SAEED No. E 18781 Exp. 6/30/11 ELEC STATE OF CALIFORNIA	
3-7-11 PLANS APPROVAL DATE					
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ENLARGED PARTIAL REMOVAL PLAN
 SCALE 1" = 10'-0"

GENERAL NOTES:

- A. Salvage all removed electrical materials, as directed by the Engineer.
- B. Where applicable, after equipment removal, cut and remove associated conductors and exposed portion of conduit. Abandon underground portion of conduit.
- C. For removal of Fuel Island and underground fuel tanks, see Architectural plans.

NOTES:

- (1) Disconnect and remove area light, card reader, air/water dispenser, and two fuel dispensers from Fuel Island Load Center.
- (2) Tank monitor is fed from Panel P, Ckt #30, 32. Disconnect and remove tank monitor, and associated conduit and conductors.
- (3) Fuel Island Load Center is fed from Panel P, Ckt #26, 28. Disconnect and remove Fuel Island Load Center, and associated conduits and conductors.
- (4) Remove emergency pump shut off switches (Total 2), sign, and associated conduits and conductors.

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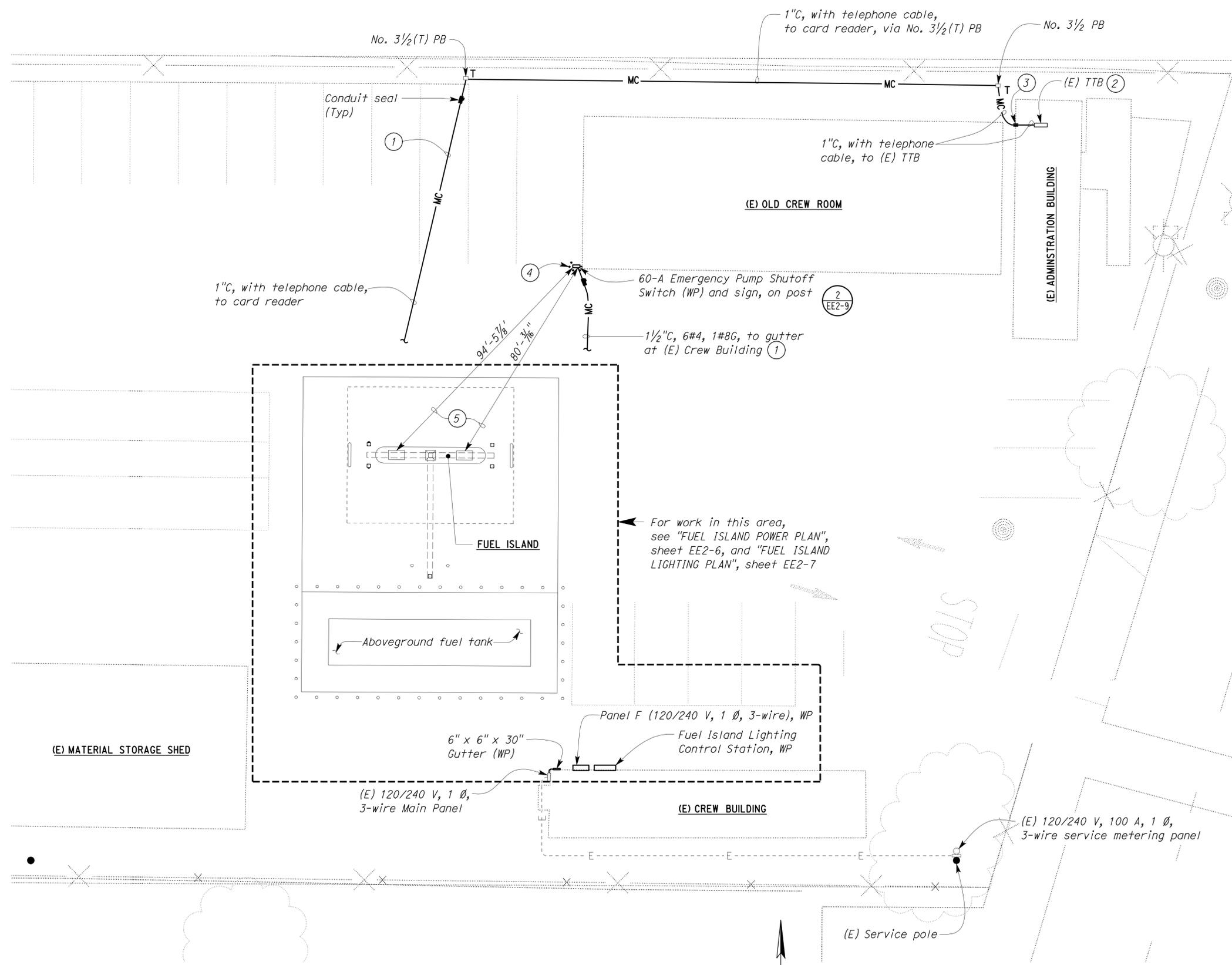
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				POST MILE 15.6			WALNUT CREEK MAINTENANCE STATION - EAST				
				ENLARGED PARTIAL REMOVAL PLAN							
DETAILS BY <i>Kathl Andreasen</i>	CHECKED <i>Imran Saeed</i>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3618 04000009271	DISREGARD PRINTS BEARING EARLIER REVISION DATES			REVISION DATES (PRELIMINARY STAGE ONLY)			SHEET	OF
QUANTITIES BY <i>Imran Saeed</i>	CHECKED <i>Beatrice Bindu</i>			6/5/09	3/7/10	4/2/10	4/7/10	4/15/10	7/9/10	7/30/10	

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REGISTERED ELECTRICAL ENGINEER	DATE
<u>Imran Saeed</u>	07-30-10
PLANS APPROVAL DATE	
3-7-11	

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GENERAL NOTES:

- A. Installation shall meet requirements of 2007 California Electrical Code, Article 514.
- B. The Contractor shall locate existing utility lines and conduits before trenching. Care shall be taken not to damage existing utility lines and conduits.

NOTES:

- 1 For continuation of conduit, see sheet EE2-6.
- 2 Existing TTB is located in Supervisors's Office.
- 3 Core drill through existing wall for conduit penetration.
- 4 Fixed pipe guard post, typical. Install 4 fixed pipe guard posts to protect emergency shutoff switch. For fixed pipe guard post details, see 3 EE2-9.
- 5 Distance between fuel dispensers and emergency pump shutoff switch not to exceed 100'-0" (C.F.C. Sec 2203.2).

PARTIAL SITE PLAN
 SCALE 1" = 20'-0"

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN BY <u>Imran Saeed</u> CHECKED <u>Beatrice Bindu</u>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 28M5738	DISTRICT 4 VARIOUS FUEL CANOPIES	SHEET EE2-5	
			POST MILE 15.6			WALNUT CREEK MAINTENANCE STATION - WEST
DETAILS BY <u>Andreasen/Monson</u> CHECKED <u>Imran Saeed</u>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3618 04000009271	REVISION DATES (PRELIMINARY STAGE ONLY)			SHEET OF
QUANTITIES BY <u>Imran Saeed</u> CHECKED <u>Beatrice Bindu</u>			6/5/09 6/16/09 3/18/10 4/7/10 4/13/10 4/15/10 7/30/10			
DOES SD Imperial Rev. 1/07		EA 3A0901		ee2_05.dgn		

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala, CC, SM	Var	Var	147	160

Reviewed by: <i>Imran Saeed</i>	DATE: 07-30-10
Approval date: JASON D. DeWITT 07-13-10	
CSFM FILE #15-01-11-0089	

3-7-11
PLANS APPROVAL DATE

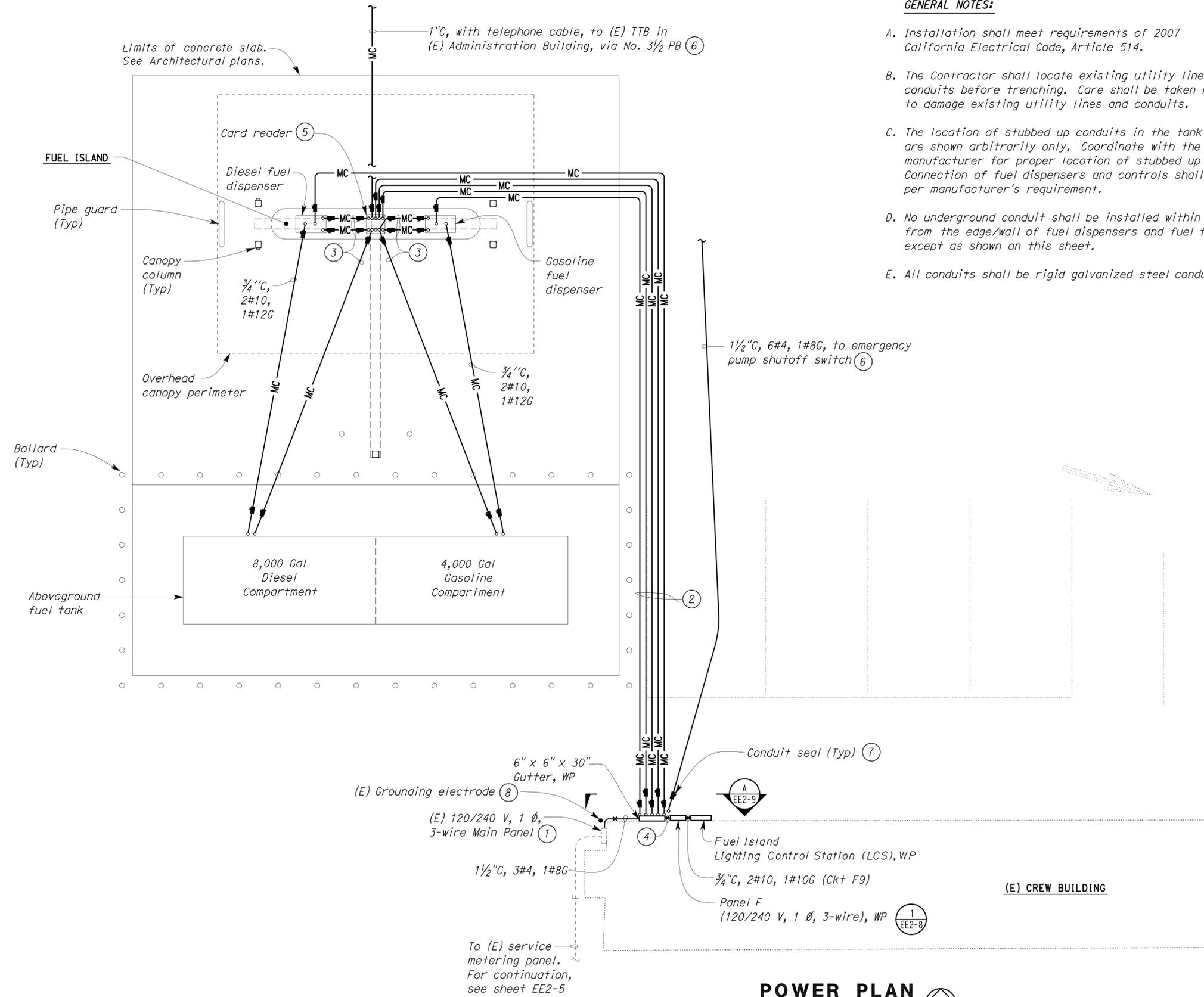
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

GENERAL NOTES:

- A. Installation shall meet requirements of 2007 California Electrical Code, Article 514.
- B. The Contractor shall locate existing utility lines and conduits before trenching. Care shall be taken not to damage existing utility lines and conduits.
- C. The location of stubbed up conduits in the tank area are shown arbitrarily only. Coordinate with the fuel tank manufacturer for proper location of stubbed up conduits. Connection of fuel dispensers and controls shall be as per manufacturer's requirement.
- D. No underground conduit shall be installed within 20'-0" from the edge/wall of fuel dispensers and fuel tank, except as shown on this sheet.
- E. All conduits shall be rigid galvanized steel conduits.

NOTES:

- ① Install a new 60-A, 2-pole circuit breaker at circuit #8-10, to feed new Panel F. For power distribution diagram, see "PARTIAL POWER BLOCK DIAGRAM CONNECTION", sheet EE2-8.
- ② (1) 3/4"C, 2#10, 1#10G, power to gasoline dispenser, (1) 3/4"C, 2#10, 1#10G, power to card reader, (2) 3/4"C, with pull rope, to card reader (Spare), and (1) 3/4"C, 2#10, 1#10G, power to diesel dispenser.
- ③ 3/4"C, control conductors as required by fuel tank manufacturer.
- ④ (1) 1"C, 3#4, 1#8G, (1) 1"C, 6#10, 3#10G, and (1) 1"C. (Spare)
- ⑤ State-furnished material. to be installed by the Contractor.
- ⑥ For continuation of conduit, see sheet EE2-5.
- ⑦ Conduit seals shall be listed per California Electrical Code, Section 514-9 (A) and 514-9 (B).
- ⑧ The Contractor shall verify resistance of existing ground during installation. Install additional grounding electrode if resistance of ground electrode system is more than 25 ohms per California Electrical Code, Section 250-56.



POWER PLAN
SCALE 3/16" = 1'-0"

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN BY <i>Imran Saeed</i> CHECKED <i>Beatrice Bindu</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 28M5738	DISTRICT 4 VARIOUS FUEL CANOPIES	SHEET EE2-6
			POST MILE 15.6		WALNUT CREEK MAINTENANCE STATION - WEST
			FUEL ISLAND POWER PLAN		

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

UNIT PROJECT NUMBER & PHASE	3618 04000009271
-----------------------------	---------------------

DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
	6/9/09 6/16/09 3/16/10 4/7/10 4/15/10 7/9/10 7/18/10 7/30/10	

11-MAR-2011 10:23
ee2_06.dgn

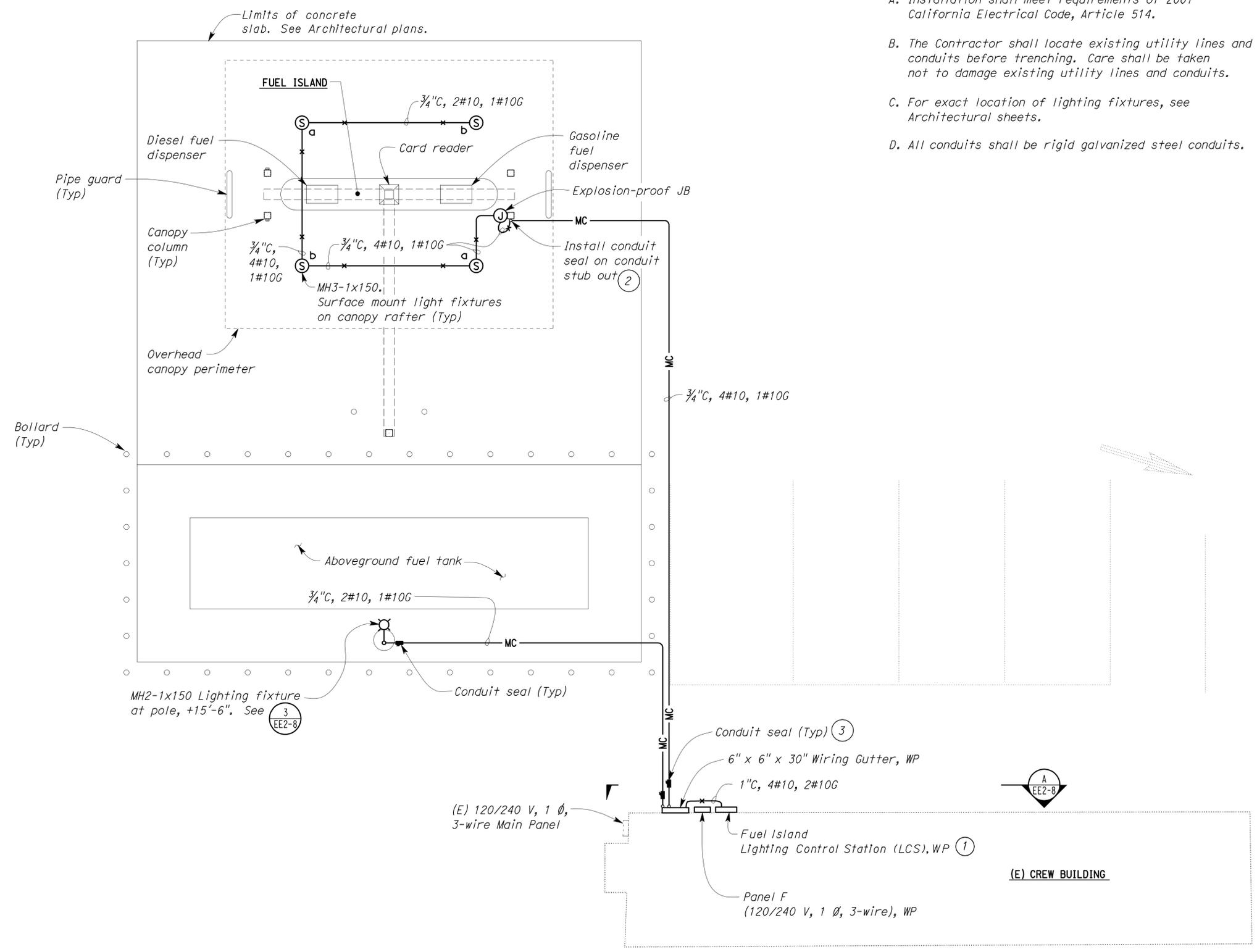
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala, CC, SM	Var	Var	148	160
Reviewed by: <i>Imran Saeed</i>			07-30-10	REGISTERED ELECTRICAL ENGINEER DATE	
Approval date: JASON D. DeWITT 07-13-10			CSFM FILE #15-01-11-0089		
3-7-11 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



GENERAL NOTES:

- A. Installation shall meet requirements of 2007 California Electrical Code, Article 514.
- B. The Contractor shall locate existing utility lines and conduits before trenching. Care shall be taken not to damage existing utility lines and conduits.
- C. For exact location of lighting fixtures, see Architectural sheets.
- D. All conduits shall be rigid galvanized steel conduits.

CALIFORNIA STATE FIRE MARSHAL APPROVED
 Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.
 Reviewed by: *Jason D. DeWitt*
 Approval date: 07-13-10
 CSFM FILE #15-01-11-0089



NOTES:

- 1 For Fuel Island Lighting Control Station (LCS) wiring schematic diagram, see 2.
- 2 Paint conduit to match canopy column.
- 3 Conduit seals shall be listed per California Electrical Code, Section 514-9 (A) and 514-9 (B).

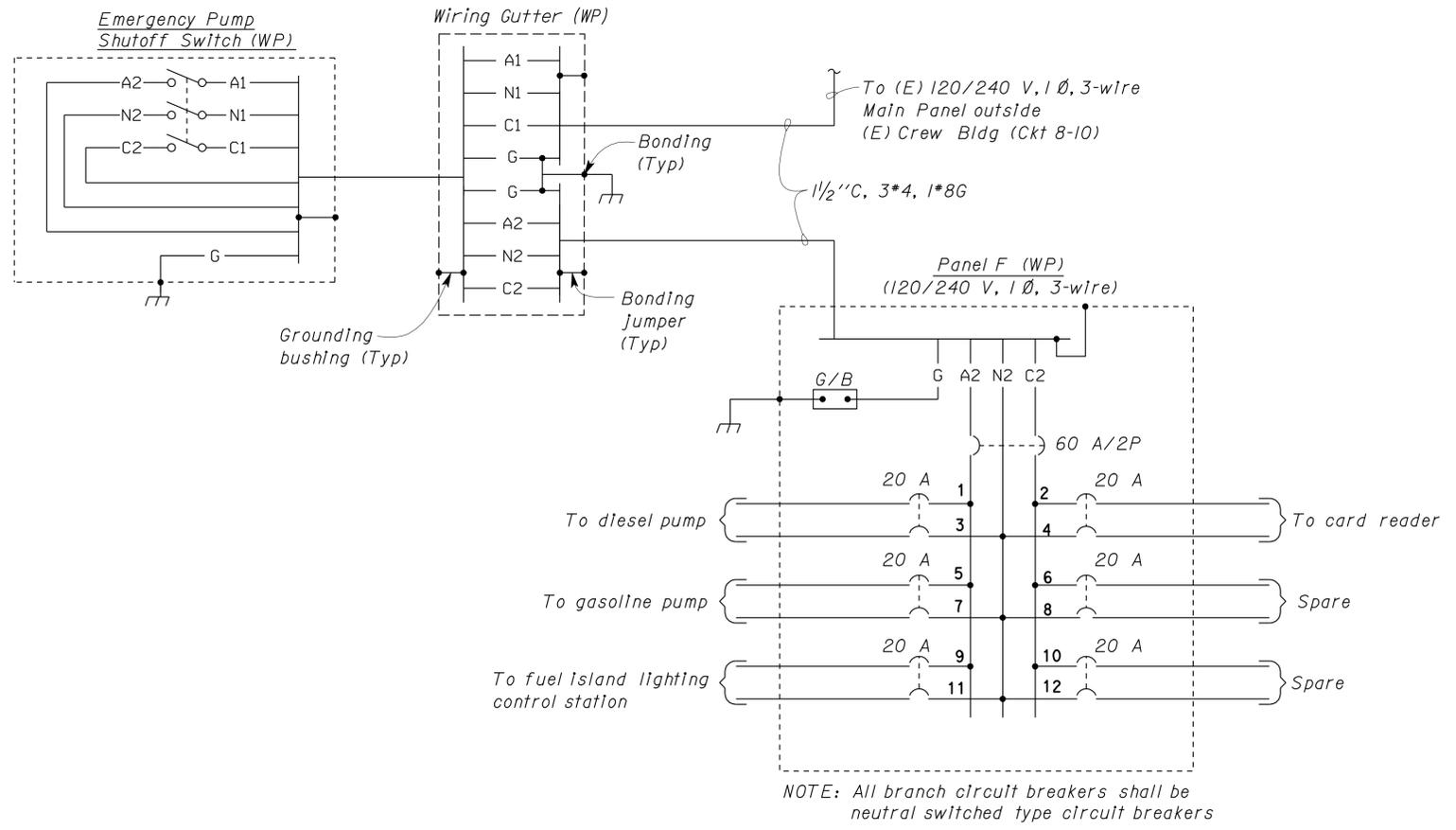
LIGHTING PLAN
 SCALE 3/16" = 1'-0"

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

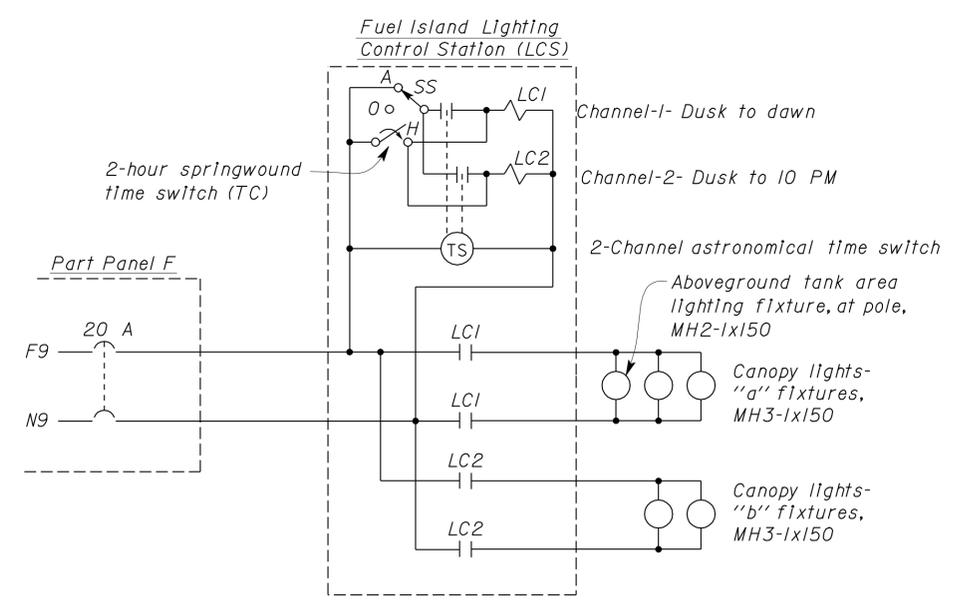
DESIGN BY <i>Imran Saeed</i>	CHECKED <i>Beatrice Bindu</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 28M5738	DISTRICT 4 VARIOUS FUEL CANOPIES	SHEET EE2-7		
				POST MILE 15.6			WALNUT CREEK MAINTENANCE STATION - WEST	
DETAILS BY <i>Andreasen/Monson</i>	CHECKED <i>Imran Saeed</i>	UNIT PROJECT NUMBER & PHASE 3618 04000009271	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)				SHEET OF
QUANTITIES BY <i>Imran Saeed</i>	CHECKED <i>Beatrice Bindu</i>			3/18/10	4/7/10	4/7/10	7/30/10	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3	EA 3A0901				ee2_07.dgn	

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala, CC, SM	Var	Var	149	160

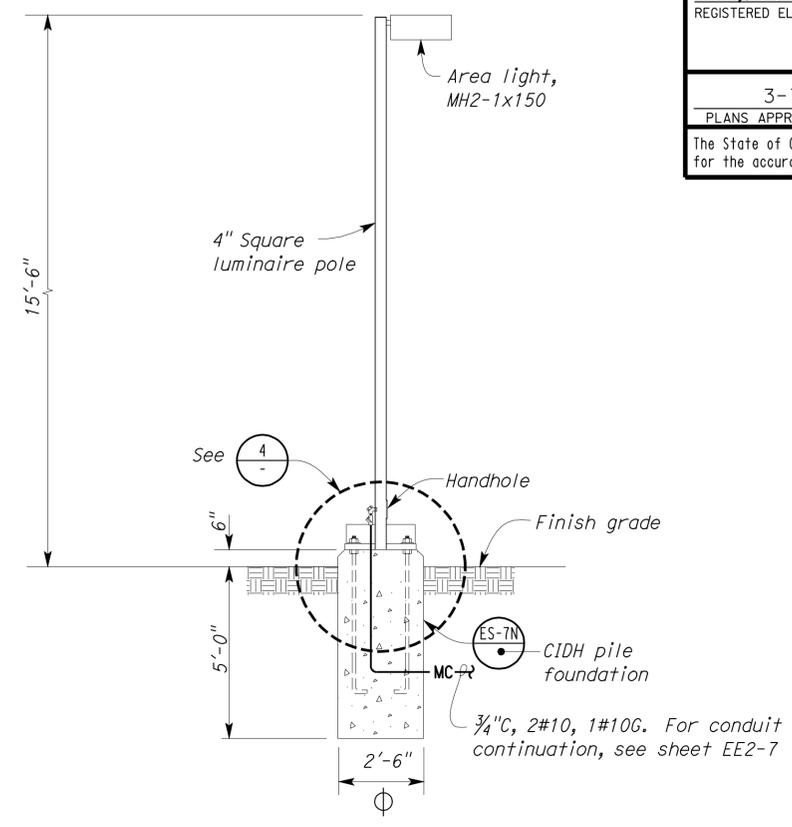
07-30-10 DATE
 REGISTERED ELECTRICAL ENGINEER
 IMRAN SAEED No. E 18781
 Exp. 6/30/11
 STATE OF CALIFORNIA ELEC
 3-7-11
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



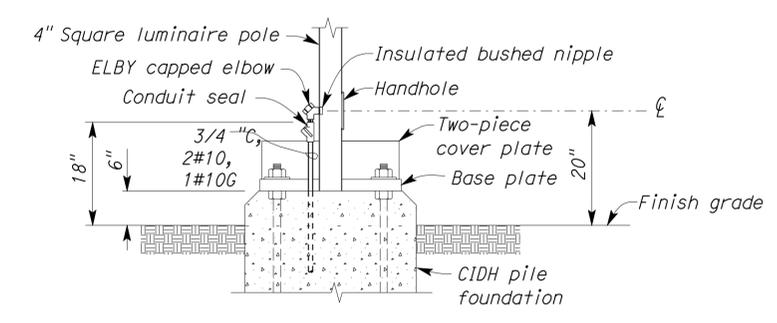
1 PARTIAL POWER BLOCK DIAGRAM CONNECTION



2 LIGHTING CONTROL STATION SCHEMATIC DIAGRAM



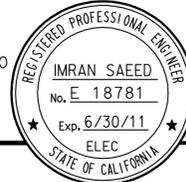
3 DETAIL POLE MOUNTED LIGHTING FIXTURE
NO SCALE



4 DETAIL
NO SCALE

DESIGN	BY	Imran Saeed	CHECKED	Beatrice Bindu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	28M5738	DISTRICT 4 VARIOUS FUEL CANOPIES WALNUT CREEK MAINTENANCE STATION - WEST	DETAILS	SHEET EE2-8	
	DETAILS	BY	Andreasen/Monson	CHECKED			Imran Saeed	POST MILE				15.6
	QUANTITIES	BY	Imran Saeed	CHECKED			Beatrice Bindu	UNIT				3618
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0 1 2 3	DISREGARD PRINTS BEARING EARLIER REVISION DATES	SHEET OF					

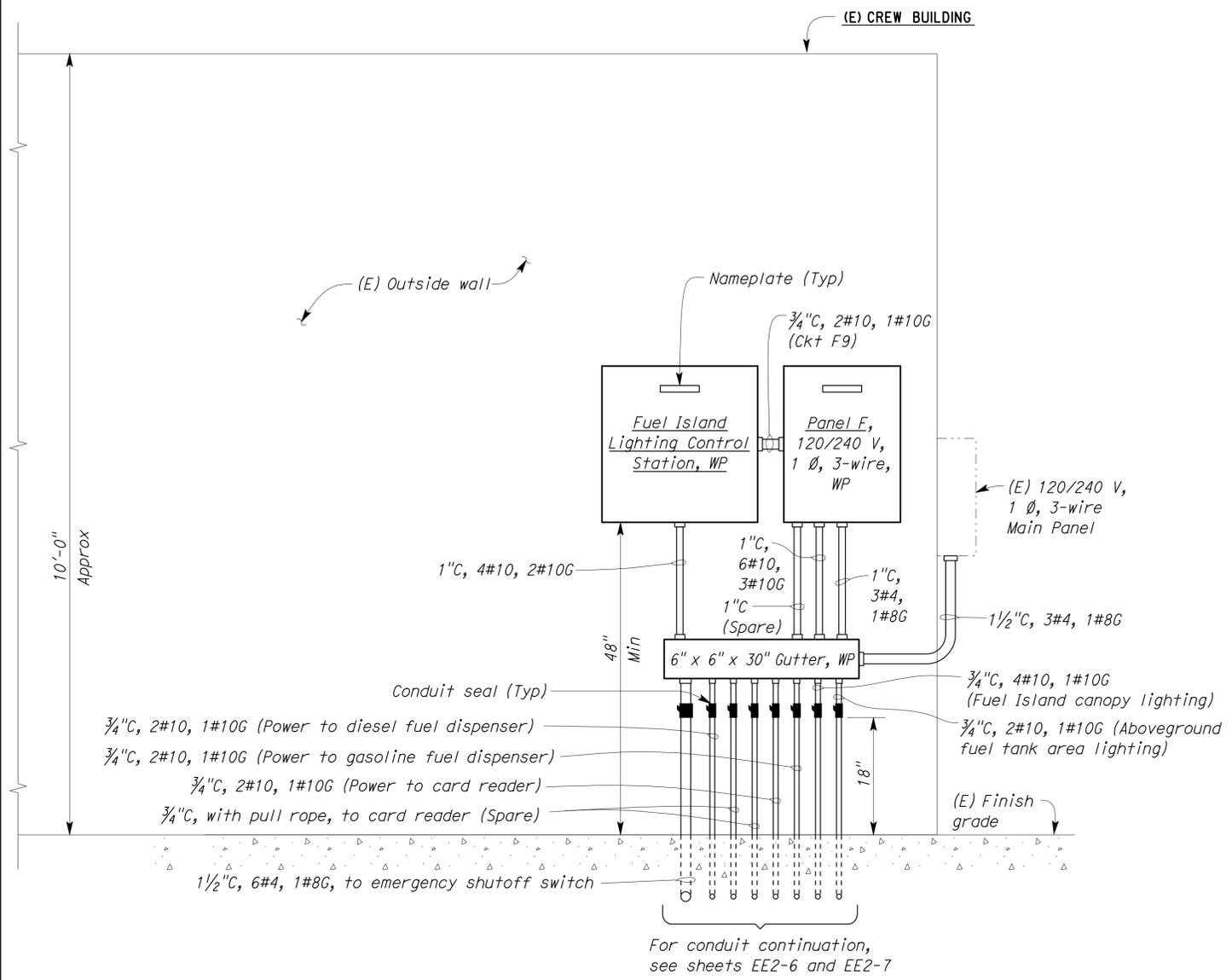
DOES SD Imperial Rev. 1/07
EA 3A0901
14-MAR-2011 07:20
ee2_08.dgn

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala, CC, SM	Var	Var	150	160
 REGISTERED ELECTRICAL ENGINEER			DATE		
PLANS APPROVAL DATE			07-30-10	3-7-11	
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.					

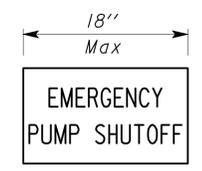
CALIFORNIA STATE FIRE MARSHAL APPROVED

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

Reviewed by: 
 JASON D. DeWITT
 Approval date: 07-13-10
 CSFM FILE #15-01-11-0089



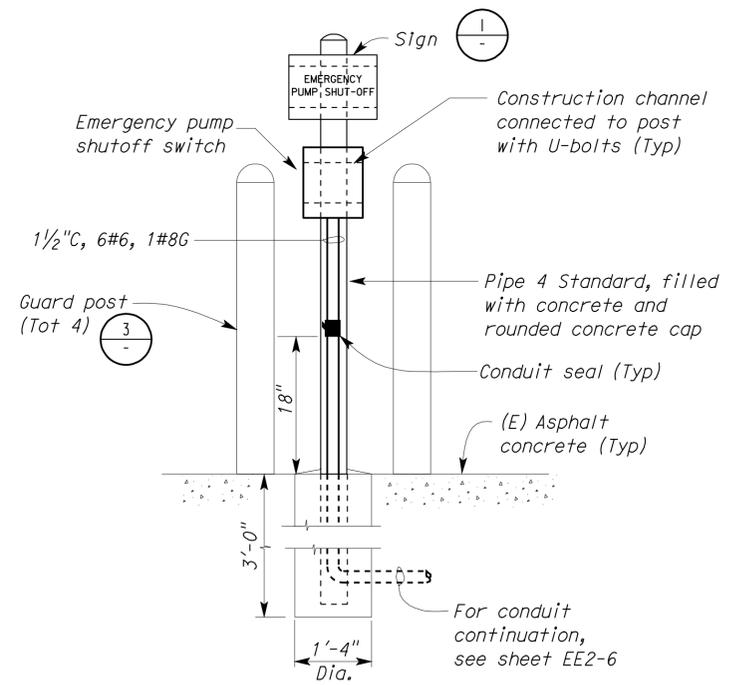
EXISTING CREW BUILDING
A ELEVATION
 NO SCALE



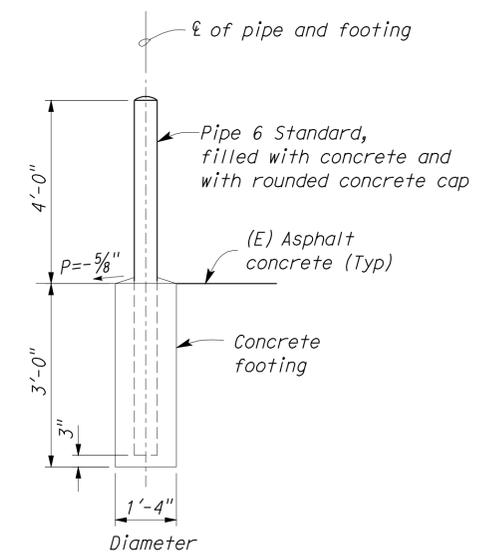
NOTE:

Sign shall be 16 ga. baked enamel steel with red letters on white background. Letters shall be 2" high. Sign shall be fastened to wall with at least six mechanical fasteners. Adhesive shall not be used. Provide metal shims for each corner, at back of sign, against uneven concrete masonry unit (CMU) surface, for a plumb sign.

1 SIGN DETAIL
 NO SCALE



EMERGENCY PUMP SHUTOFF DETAIL
2
 NO SCALE



3 GUARD POST DETAIL
 SCALE 1/2" = 1'-0"

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN	BY	Imran Saeed	CHECKED	Beatrice Bindu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	28M5738	DISTRICT 4 VARIOUS FUEL CANOPIES	SHEET EE2-9	
	DETAILS	BY	Andreasen/Monson	CHECKED			Imran Saeed	POST MILE			15.6
	QUANTITIES	BY	Imran Saeed	CHECKED			Beatrice Bindu	WALNUT CREEK MAINTENANCE STATION - WEST			DETAILS
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0	1	2	3	UNIT PROJECT NUMBER & PHASE 3618 04000009271		
DOES SD Imperial Rev. 1/07					DISREGARD PRINTS BEARING EARLIER REVISION DATES			REVISION DATES (PRELIMINARY STAGE ONLY)			SHEET OF
								3/15/10 4/8/10 4/18/10 4/15/10 7/7/10 7/30/10			OF

11-MAR-2011 10:23 ee2_09.dgn

CERTIFICATE OF COMPLIANCE (Page 1 of 4) OLTG-1C

Project Name: District 4 Various Fuel Canopies Date: 02-26-2010

Project Address: 2203 Cabrillo Hwy Half Moon Bay, CA 94019 Total Hardscape Illuminated Area: -

General Information
Phase of Construction: New Construction Addition Alteration

Documentation Author's Declaration Statement
I certify that this Certificate of Compliance documentation is accurate and complete.

Name: Imran Saeed Signature: *Imran Saeed*

Company: CalTrans Date: 02-26-2010

Address: 1801 30th Street If applicable: CEA # CEPE #

City/State/Zip: Sacramento, CA 95816 Phone: (916) 227-8202

Principal Lighting Designer's Declaration Statement
I am eligible under Division 3 of the California Business and Professions Code to accept responsibility for the lighting design.
This Certificate of Compliance identifies the lighting features and performance specification required for compliance with Title 24, Pages 1 and 6 of the California Code of Regulations.
The design features represented on this Certificate of Compliance are consistent with the information provided to document this design on the other applicable compliance forms, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

Name: Imran Saeed Signature: *Imran Saeed*

Company: CalTrans Phone: (916) 227-8202

Address: 1801 30th Street License # E 18781

City/State/Zip: Sacramento, CA 95816 Date: 02-26-2010

Principal Lighting Designer's Declaration
 I certify that this Certificate of Compliance documentation is accurate and complete, and accounts for all outdoor lighting power, including building mounted, pole mounted, as well as all other outdoor lighting designed for the site, and that Additional Lighting Power Allowances for Specific Applications or Additional Lighting Power Allowances for Ordinance Requirements have not been counted more than one time for the same area, in accordance with Section 147 of the Standards.

Outdoor Lighting Mandatory Measures
Indicate location on building plans of Mandatory Measures Note Block: _____

LIGHTING COMPLIANCE FORMS & WORKSHEETS (check box if worksheet is included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, please refer to the Nonresidential Manual published by the California Energy Commission.

- OLTG-1C Certificate of Compliance. All 4 pages required on plans for all submittal.
- OLTG-2C (Page 1 of 3) Lighting Wattage Allowances for General Hardscape, Sales Frontage, or Ornamental Lighting. Optional on plans.
- OLTG-2C (Page 2 of 3) Lighting Wattage Allowances for Per Application or Per Area. Optional on plans.
- OLTG-2C (Page 3 of 3) Additional Lighting Power Allowance for Ordinance Requirements. Optional on plans.

CERTIFICATE OF COMPLIANCE (Page 2 of 4) OLTG-1C

COMPLIANCE FIXTURE/LIGHTING CONTROL SCHEDULE and FIELD INSPECTION CHECKLIST

Project Name: District 4 Various Fuel Canopies Date: 02-26-2010

INSTALLATION CERTIFICATE, OLTG-1-INST (Retain a copy and verify form is completed and signed.) Field Inspection

CERTIFICATE OF ACCEPTANCE, OLTG-2A (Retain a copy and verify form is completed and signed.) Field Inspection

Luminaire Schedule				Installed Watts					Field Inspector	
A	B	C	D	E	F		G	H	I	J
Name Or Item Tag	Luminaire Description See footnote below (i.e., lamp pole top shoe-box 400 watt metal halide)	Cutoff Designation	Watts per Luminaire	Special Features	How wattage was determined		Number of Luminaires	Installed Watts (D x G)	Pass	Fail
					Default from NA-8	According to S 130 (d or e)				
MH3	1 Lamp ceiling mount, 150 watt metal halide	✓	168		<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	672	<input type="checkbox"/>	<input type="checkbox"/>
MH2	1 Lamp pole-top, 150 watt metal halide	✓	168		<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	168	<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>
Enter total into OLTG; Page 4 of 4; Row H; Total Installed Watts:								840		

1. Type of luminaire (i.e.: post top, wall pack, surface, shoe box); for non-incandescent luminaires, indicate nominal lamp wattage and lamp type (i.e.: fluorescent incandescent, HID); ballast type (i.e.: electronic or magnetic); number of lamps and number of ballast per luminaire. For incandescent luminaires the luminaire wattage listed in column D shall be the maximum relamping rated wattage on a permanent factory-installed label on the luminaire. NOT the wattage of the lamp (bulb) used, in accordance with Section 130 (d or e).
2. If Fail then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary.

EXEMPT LUMINAIRES Field Inspection

Name or Symbol	Description of exempt luminaires in accordance with S 147

MANDATORY CONTROLS Field Inspection

#	Description	Location	#	Description	Location
TS	2 CH. time switch (Turn off 50% lights @ 10 pm)	LCS in Gas/Oil Log Building			

SPECIAL FEATURES INSPECTION CHECKLIST (See Page 2 of 4 of OLTG-1C)

The local enforcement agency should pay special attention to the items specified in this checklist. These items require special written justification and documentation, and special verification. The local enforcement agency determines the adequacy of the justification, and may reject a building or design that otherwise complies based on the adequacy of the special justification and documentations submitted.

Field Inspector Notes or Discrepancies:

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala, CC, SM	Var	Var	151	160

REGISTERED ELECTRICAL ENGINEER DATE 7-30-10

IMRAN SAEED No. E18781 Exp. 6-30-11 ELEC STATE OF CALIFORNIA

PLANS APPROVAL DATE 3-7-11

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.

CALIFORNIA STATE FIRE MARSHAL APPROVED

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

Reviewed by: JASON D. DeWITT
Approval date: 07-13-10

CSFM FILE #15-41-11-0056
CSFM FILE #15-01-11-0089

DESIGN BY Imran Saeed	CHECKED Beatrice Bindu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 35M5710	DIST 4 VARIOUS FUEL CANOPIES	SHEET EE3-1
	DETAILS BY Kathi Andreasen			CHECKED Beatrice Bindu		
QUANTITIES BY Imran Saeed	CHECKED Beatrice Bindu	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3618 04000009271	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

DOES SD Imperial Rev. 1/07 EA 3A0901 ee3_01.dgn

CERTIFICATE OF COMPLIANCE (Page 3 of 4) OLTG-1C

Project Name: **District 4 Various Fuel Canopies** Date: **02-26-2010**

A. OUTDOOR LIGHTING ZONE

OUTDOOR LIGHTING ZONE: OLZ 1 OLZ 2 OLZ 3 OLZ 4

Is the Outdoor Lighting Zone: Default in accordance with S 10-114, or Amended by JHA

Complete the information below if the default Outdoor Lighting Zone has been amended by the local jurisdiction having authority (JHA):

- The site is a government designated park, recreation area, wildlife preserve, or portion thereof, and has been designated as LZ2 or LZ3, in accordance with Table 10-114-A, because the site is contained within such a zone.
- The local jurisdiction having authority has officially adopted a change to the State Default Lighting Zone and has notified the Energy Commission by providing the materials required in S 10-114(d) to the Executive Director.
- The adopted change is posted on the Energy Commission website.

B. ADDITIONAL LIGHTING POWER ALLOWANCE FOR ORDINANCE REQUIREMENTS

Are additional lighting power allowances for ordinance in Table 147-C used? Yes No

Complete the information below if the additional lighting power allowances for ordinance requirements are used:

- The local jurisdiction having authority has officially adopted specific outdoor light levels, which are express as average or minimum footcandle levels, by following a public notification review, and comment about the proposed changes.
- The local jurisdiction having authority which adopted specific outdoor light levels and has notified the Commission by providing the following materials required S 10-114(f) to the Executive Director.

C. ACCEPTANCE FORMS

Required Acceptance Tests

Designer:

This form is to be used by the designer and attached to the plans. Listed below is the acceptance tests for for the Lighting system, LTG-2A. The designer is required to check the acceptance tests and list all control devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance. If all the lighting system or control of a certain type requires a tests, list the different lighting and the number of systems. The NA7 Section in the Appendix of the Nonresidential Reference Appendices Manual describes the test. Since this form will be a part of the plans, completion of this section will allow the responsible party to budget for the scope of work appropriately. Forms can be grouped by type of Luminaire controlled.

Enforcement Agency:

System Acceptance. Before Occupancy Permit is granted for a newly constructed building or space or when evr new lighting system with controls is installed in the building or space shall be certified as meeting the Acceptance Requirements. The LTG-2A form is not considered a complete form and is not to be accepted by the enforcement agency unless the boxes are checked and/or filled and signed. In addition, a Certificate of Acceptance forms shall be submitted to the enforcement that certifies plans, specifications, installation certificates and, operating and maintenance information meet the requirements of S 10-103(b) of Title 24 Part 6. The field inspector must receive the properly filled out and signed forms before the building can receive final occupancy. A copy of the LTG-2A for each different lighting luminaire control(s) must be provided to the owner of the building for their records.

Certificate of Acceptance

		Luminaires Controlled		OLTG-2A
Equipment Requiring Testing	Description	Number of Like Controls	Location	Outdoor Lighting Acceptance Tests
OLSC, ATS	Turn off 50% lights after 10 pm	(4) MH3	LCS in Gas/Oil Log Building	

1. Insert: OMS for Outdoor Motion Sensor; OLSC for Outdoor Lighting Shutoff Controls; OP for Outdoor Photocontrol; ATS for Astronomical Time Switch; and, STS for Standard (non-astronomical) Time Switch acceptance.

2008 Nonresidential Compliance Forms

August 2009

CERTIFICATE OF COMPLIANCE (Page 4 of 4) OLTG-1C

COMPLIANCE FIXTURE/LIGHTING CONTROL SCHEDULE and FIELD INSPECTION CHECKLIST

Project Name: **District 4 Various Fuel Canopies** Date: **02-26-2010**

ALLOWED AND INSTALLED OUTDOOR LIGHTING POWER

		Lighting Wattle Power Allowance
A	Lighting power allowance for general hardscape (from OLTG-2C Page 1 of 3)	—
B	Specific application lighting wattage per unit length (from OLTG-2C Page 1 of 3)	—
C	Specific application wattage allowance for ornamental lighting (from OLTG-2C Page 1 of 3)	—
D	Specific application wattage allowance per application (from OLTG-2C Page 2 of 3)	—
E	Specific application lighting wattage allowance per area (from OLTG-2C Page 2 of 3)	840
F	Additional lighting power allowance for ordinance requirements (from OLTG-2C Page 3 of 3)	—
G	Total Allowed Wattle=Sum of rows A through F	840
H	Total installed Watts from Luminaire Schedule, (from OLTG-1C Page 2 of 4)	840
Complies if installed Wattle in row H is less than or equal to the Total Installed Wattle in row G		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

2008 Nonresidential Compliance Forms

August 2009

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala, CC, SM	Var	Var	152	160

REGISTERED ELECTRICAL ENGINEER *Imran Saeed* 7-30-10 DATE

IMRAN SAEED No. E18781 Exp. 6-30-11 ELEC STATE OF CALIFORNIA

3-7-11 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.

CALIFORNIA STATE FIRE MARSHAL APPROVED

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

Reviewed by: *JASON D. DeWITT*
Approval date: 07-13-10

CSFM FILE #15-41-11-0056
CSFM FILE #15-01-11-0089

DESIGN	BY <i>Imran Saeed</i>	CHECKED <i>Beatrice Bindu</i>
DETAILS	BY <i>Linda Monson</i>	CHECKED <i>Beatrice Bindu</i>
QUANTITIES	BY <i>Imran Saeed</i>	CHECKED <i>Beatrice Bindu</i>

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO. 35M5710 POST MILE 26.9

DIST 4 VARIOUS FUEL CANOPIES HALF MOON BAY M.S. TITLE 24 COMPLIANCE

SHEET EE3-2 OF

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

Reviewed by: *Jason D. DeWitt*
 Approval date: 07-13-10

JASON D. DeWITT
 07-13-10

CSFM FILE #15-41-11-0056
 CSFM FILE #15-01-11-0089

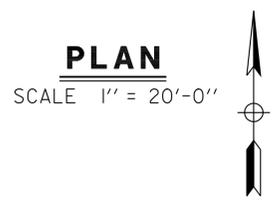
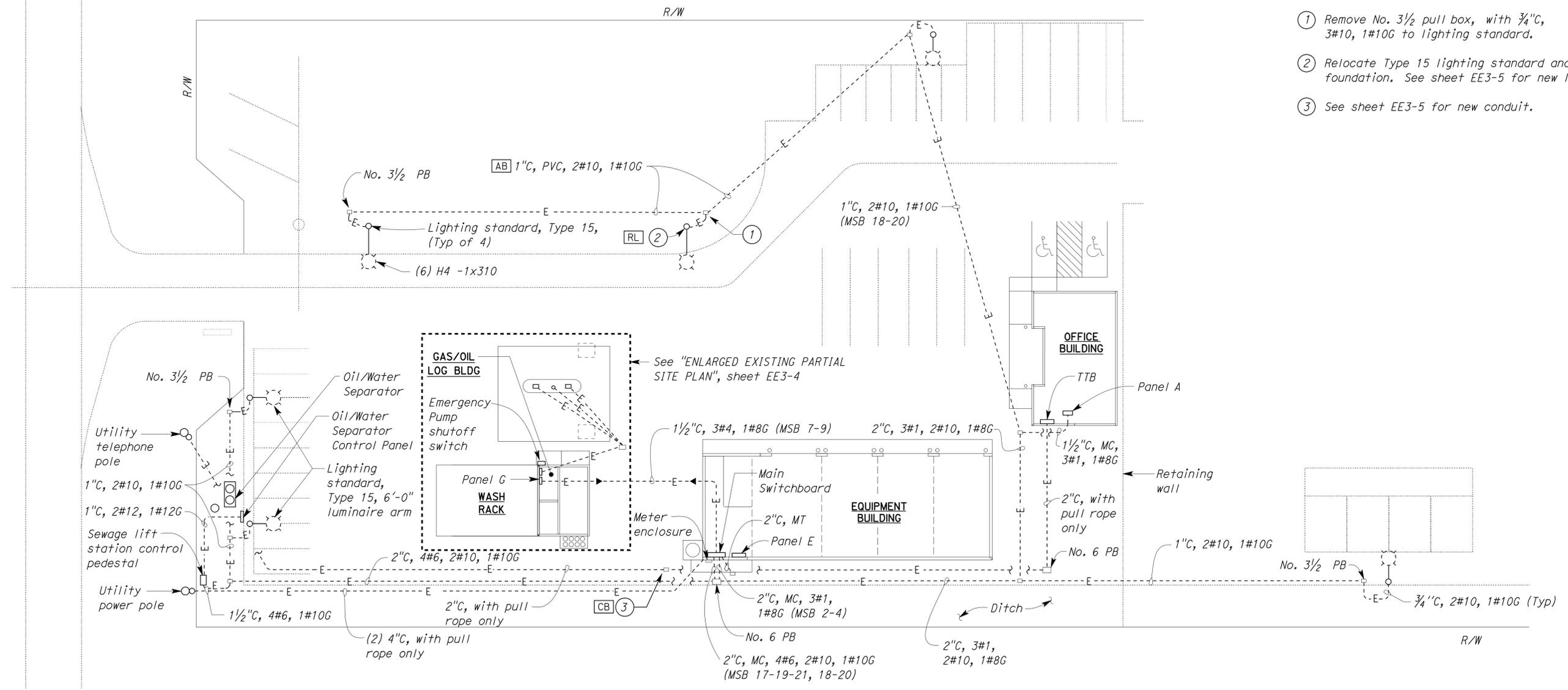
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala, CC, SM	Var	Var	153	160

 REGISTERED ELECTRICAL ENGINEER		7-30-10 DATE
3-7-11 PLANS APPROVAL DATE		
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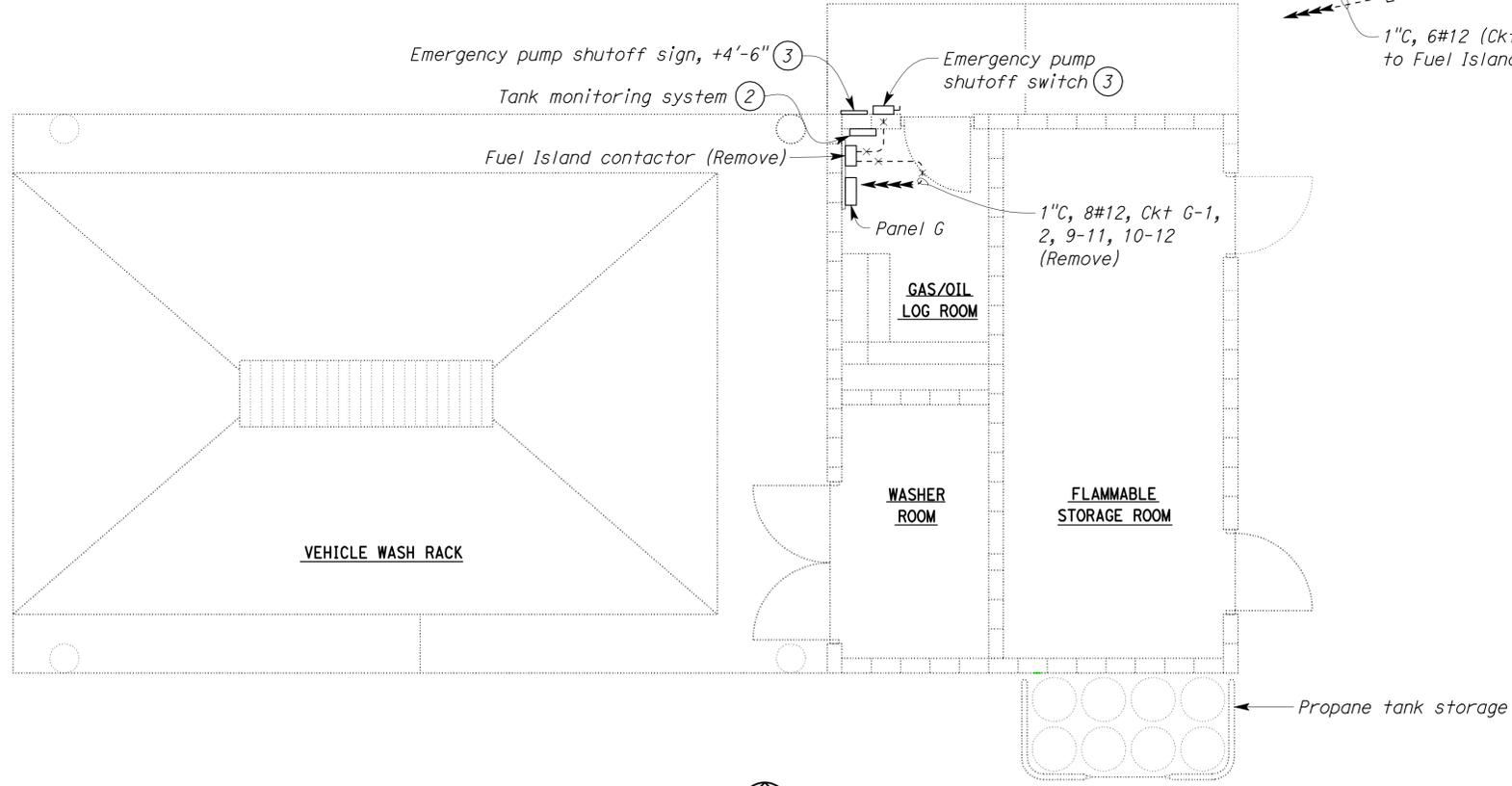
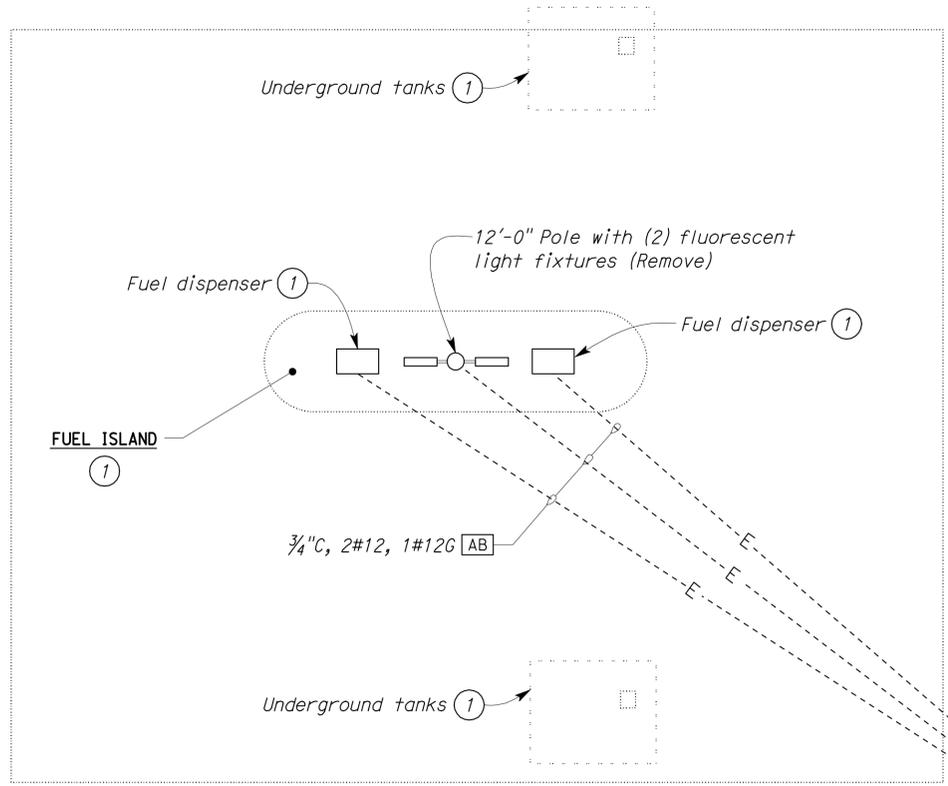
- NOTES:**
- Remove No. 3 1/2 pull box, with 3/4" C, 3#10, 1#10G to lighting standard.
 - Relocate Type 15 lighting standard and foundation. See sheet EE3-5 for new location.
 - See sheet EE3-5 for new conduit.

R/W



THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN	BY	Imran Saeed	CHECKED	Beatrice Bindu	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	DIST 4 VARIOUS FUEL CANOPIES		SHEET EE3-3
	DETAILS	BY	Andreasen/Monson	CHECKED			Beatrice Bindu	35M5710	HALF MOON BAY M.S.	
QUANTITIES	BY	Imran Saeed	CHECKED	Beatrice Bindu	UNIT PROJECT NUMBER & PHASE	3618 04000009271	POST MILE	REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET OF
						26.9	DISREGARD PRINTS BEARING EARLIER REVISION DATES		3/18/10 4/14/10 4/15/10 7/9/10 7/30/10	EA 3A0901



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

CALIFORNIA STATE FIRE MARSHAL APPROVED
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Reviewed by: *Jason D. DeWitt*
Approval date: 07-13-10
CSFM FILE #15-41-11-0056
CSFM FILE #15-01-11-0089

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala, CC, SM	Var	Var	154	160

Reviewed by: *Imran Saeed* 7-30-10
REGISTERED ELECTRICAL ENGINEER DATE

3-7-11
PLANS APPROVAL DATE

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GENERAL NOTES:

- A. Salvage all removed electrical materials, as directed by the Engineer.
- B. Where applicable, after equipment removal, cut and remove associated conductors and exposed portion of conduit. Abandon underground portion of conduit.

NOTES:

- 1 For removal work, see Architectural sheets.
- 2 Remove tank monitoring system (Model TLS-350). Cap associated conduits.
- 3 Remove. Patch wall and paint to match existing.

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN BY <i>Imran Saeed</i>	CHECKED <i>Beatrice Bindu</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 35M5710	DIST 4 VARIOUS FUEL CANOPIES		SHEET EE3-4
				POST MILE 26.9	HALF MOON BAY M.S.	ENLARGED EXISTING PARTIAL SITE PLAN	
DETAILS BY <i>Andreasen/Ngov/Monson</i>	CHECKED <i>Beatrice Bindu</i>	UNIT PROJECT NUMBER & PHASE EA 3A0901	3618 04000009271	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	
QUANTITIES BY <i>Imran Saeed</i>	CHECKED <i>Beatrice Bindu</i>			6/3/09 3/23/10 4/7/10 4/7/10 7/7/10 7/30/10		SHEET	OF

15-MAR-2011 10:04

ee3_04.dgn

General Notes:

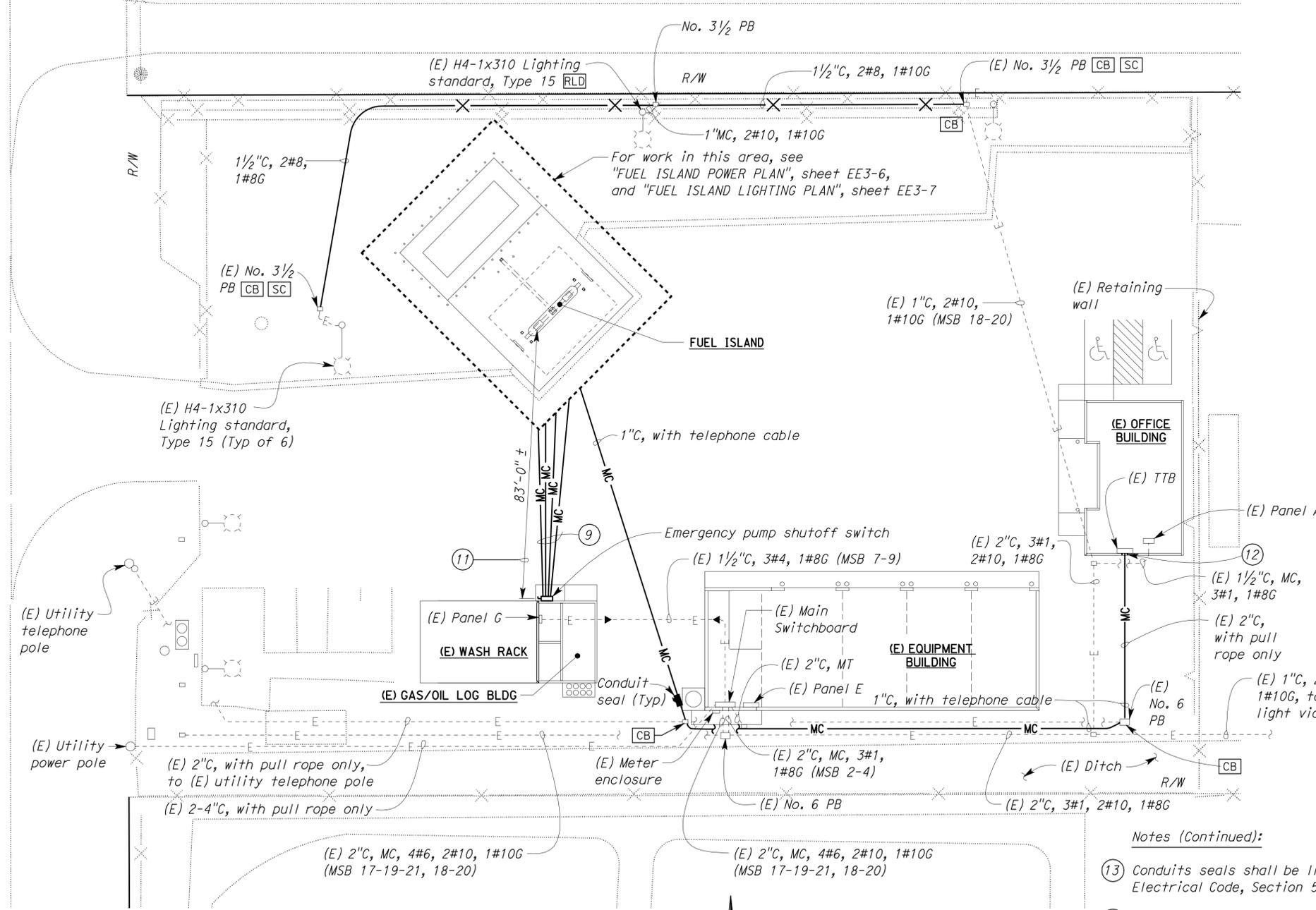
- A. Installation shall meet requirements of 2007 California Electrical Code, Article 514.
- B. The Contractor shall locate existing utility lines and conduits before trenching. Care shall be taken not to damage existing utility lines and conduits.

CALIFORNIA STATE FIRE MARSHAL APPROVED Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by: <i>Jason D. DeWitt</i> Approval date: 07-13-10 CSFM FILE #15-41-11-0056 CSFM FILE #15-01-11-0089	DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
	04	Ala, CC, SM	Var	Var	155	160

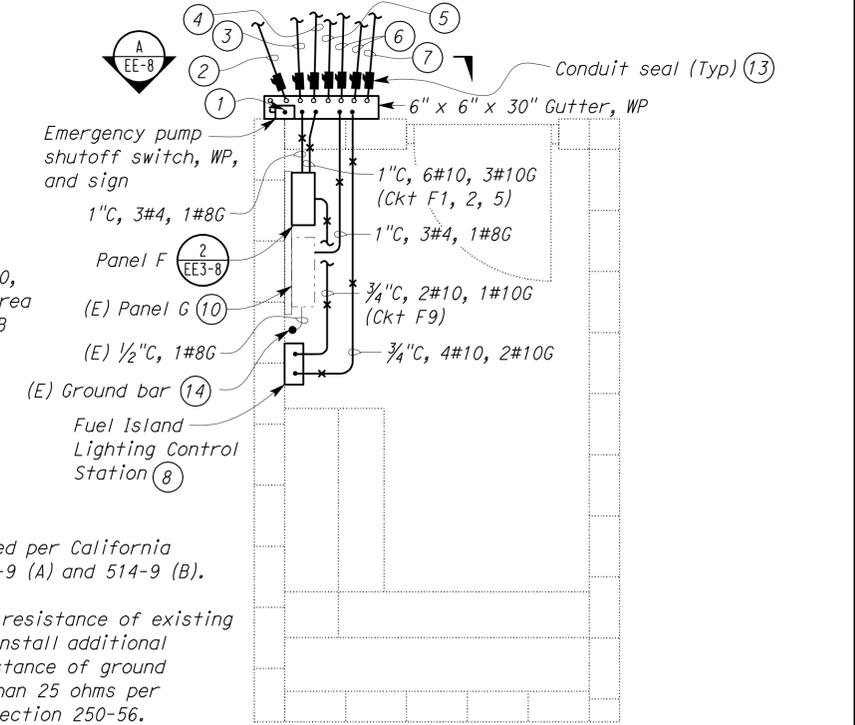
Registered Electrical Engineer: *Imran Saeed*
 No. E18781
 Exp. 6-30-11
 ELEC
 STATE OF CALIFORNIA

7-30-10 DATE
 3-7-11 PLANS APPROVAL DATE
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ROUTE 1



- Notes:**
- 1) 1/2" MC, 6#4, 1#8G, to emergency shutoff switch.
 - 2) 1" MC, 2#10, 1#10G, to aboveground tank area lighting pole.
 - 3) 3/4" MC, 4#10, 1#10G, to canopy lighting.
 - 4) 3/4" MC, 2#10, 1#10G, to gasoline dispenser.
 - 5) 3/4" MC, 2#10, 1#10G, power to card reader.
 - 6) 3/4" MC, pull rope, to card reader (Spare).
 - 7) 3/4" MC, 2#10, 1#10G, power to diesel dispenser.
 - 8) For wiring, see "LIGHTING CONTROL STATION SCHEMATIC DIAGRAM", sheet EE3-8.
 - 9) For number and size of conduits and wires, see "GAS/OIL LOG ROOM ENLARGED PLAN", this sheet.
 - 10) Existing Panel G is Siemens, 120/240 V, 1-phase panelboard. Install a 60 A, 2-pole circuit breaker in space 17-19 to feed new Panel F.
 - 11) Distance between fuel dispenser and emergency pump shutoff switch not to exceed 100'-0" (CFC Sec. 2203.2).
 - 12) Core drill through existing wall for conduit penetration.



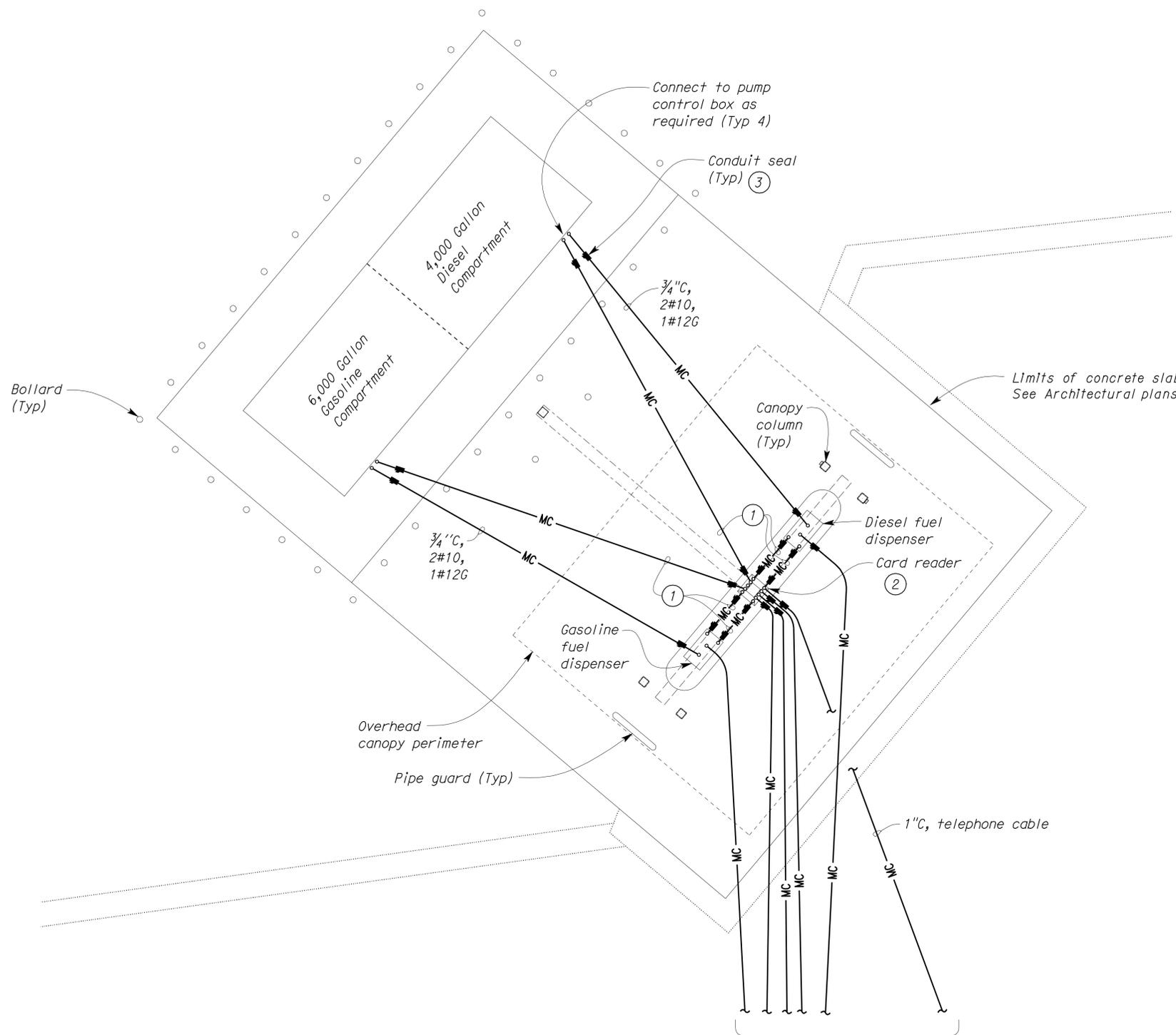
- Notes (Continued):**
- 13) Conduits seals shall be listed per California Electrical Code, Section 514-9 (A) and 514-9 (B).
 - 14) The Contractor shall verify resistance of existing ground during installation. Install additional grounding electrode if resistance of ground electrode system is more than 25 ohms per California Electrical Code, Section 250-56.

PLAN
SCALE 1" = 20'-0"

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

A GAS/OIL LOG ROOM ENLARGED PLAN
SCALE 1/2" = 1'-0"

DESIGN BY <i>Imran Saeed</i>	CHECKED <i>Beatrice Bludu</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	DIST 4 VARIOUS FUEL CANOPIES	SHEET EE3-5
				35M5710		
DETAILS BY <i>Andreasen/Ngov/Monson</i>	CHECKED <i>Beatrice Bludu</i>	PROJECT NUMBER & PHASE 04000009271	UNIT 3618	POST MILE	HALF MOON BAY M.S.	SHEET OF
QUANTITIES BY <i>Imran Saeed</i>	CHECKED <i>Beatrice Bludu</i>			26.9		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0 1 2 3	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)
EA 3A0901			0 1 2 3	3/28/10 4/7/10 4/15/10 7/20/10 7/30/10		11-MAR-2011 14:22



For size of conduits and conductors, and continuation, see sheet EE3-5

PLAN
SCALE 3/16" = 1'-0"

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

CALIFORNIA STATE FIRE MARSHAL APPROVED Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times. Reviewed by: <i>[Signature]</i> JASON D. DeWITT 07-13-10 Approval date: CSFM FILE #15-41-11-0056 CSFM FILE #15-01-11-0089	DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
	04	Ala, CC, SM	Var	Var	156	160

REGISTERED ELECTRICAL ENGINEER DATE 7-30-10

REGISTERED PROFESSIONAL ENGINEER IMRAN SAEED No. E18781 Exp. 6-30-11 ELEC STATE OF CALIFORNIA

PLANS APPROVAL DATE 3-7-11

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.

- General Notes:**
- Installation shall meet requirements of 2007 California Electrical Code, Article 514.
 - The Contractor shall locate existing utility lines and conduits before trenching. Care shall be taken not to damage existing utility lines and conduits.
 - The location of stubbed up conduits in the tank area are shown arbitrarily only. Coordinate with the fuel tank manufacturer for proper location of stubbed up conduits. Connection of fuel dispensers and controls shall be as per manufacturer's requirement.

- Notes:**
- 3/4" C, control conductors as required by fuel tank manufacturer.
 - State-furnished equipment to be installed by the Contractor.
 - Conduit seals shall be listed per California Electrical Code, Section 514-9 (A) and 514-9 (B).

DESIGN BY <i>Imran Saeed</i>	CHECKED <i>Beatrice Bindu</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	DIST 4 VARIOUS FUEL CANOPIES	SHEET EE3-6
				35M5710		
DETAILS BY <i>Andreasen/Ngou/Monson</i>	CHECKED <i>Beatrice Bindu</i>	PROJECT NUMBER & PHASE 04000009271	UNIT 3618	POST MILE	HALF MOON BAY M.S.	FUEL ISLAND POWER PLAN
QUANTITIES BY <i>Imran Saeed</i>	CHECKED <i>Beatrice Bindu</i>			26.9		
DOES SD Imperial Rev.1/07	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	EA 3A0901	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
				6/5/09 3/28/10 4/14/10 4/7/10 7/9/10 7/7/10 7/30/10		

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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala, CC, SM	Var	Var	157	160
 REGISTERED ELECTRICAL ENGINEER			7-30-10 DATE		
3-7-11 PLANS APPROVAL DATE					
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General Notes:

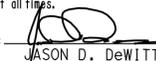
- A. Installation shall meet requirements of 2007 California Electrical Code, Article 514.
- B. The Contractor shall locate existing utility lines and conduits before trenching. Care shall be taken not to damage existing utility lines and conduits.
- C. For exact location of lighting fixtures, see Architectural sheets.
- D. All conduits shall be rigid galvanized steel conduits.

Notes:

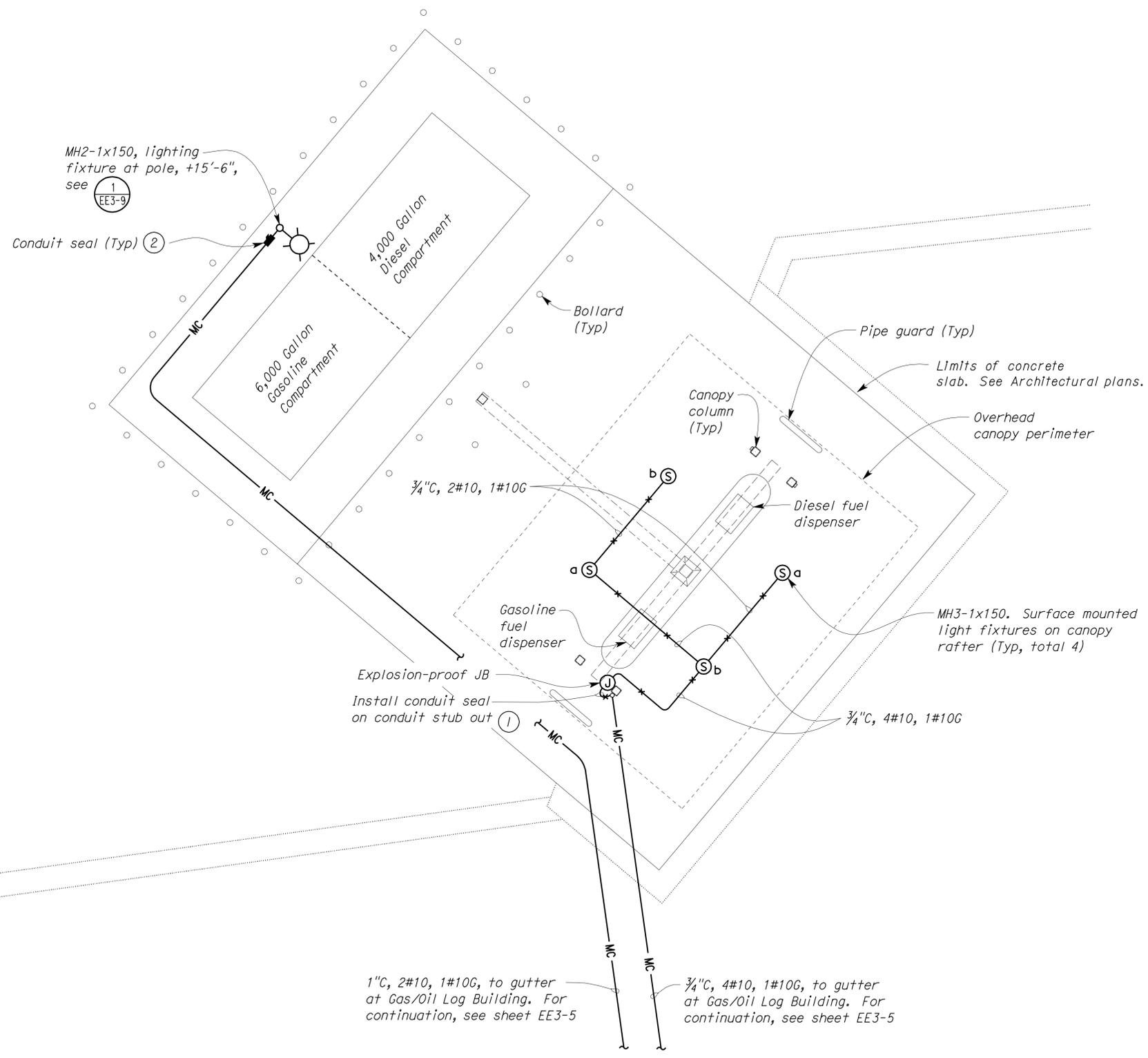
- ① Paint conduit to match canopy column.
- ② Conduit seals shall be listed per California Electrical Code, Section 514-9 (A) and 514-9 (B).

CALIFORNIA STATE FIRE MARSHAL APPROVED

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Reviewed by: 
 Approval date: 07-13-10

CSFM FILE #15-41-11-0056
 CSFM FILE #15-01-11-0089



PLAN

SCALE 3/16" = 1'-0"



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DESIGN BY <i>Imran Saeed</i>	CHECKED <i>Beatrice Bindu</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES		BRIDGE NO. 35M5710	DIST 4 VARIOUS FUEL CANOPIES		SHEET EE3-7
				ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN		POST MILE 26.9	HALF MOON BAY M.S.	FUEL ISLAND LIGHTING PLAN	
				DESIGN BY <i>Imran Saeed</i>	DETAILS BY <i>Andreasen / Ngov</i>	QUANTITIES BY <i>Imran Saeed</i>	CHECKED <i>Beatrice Bindu</i>	UNIT PROJECT NUMBER & PHASE 3618 04000009271	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3		EA 3A0901		6/5/09 3/28/10 4/14/10 4/7/10 7/9/10 7/18/10 7/30/10			

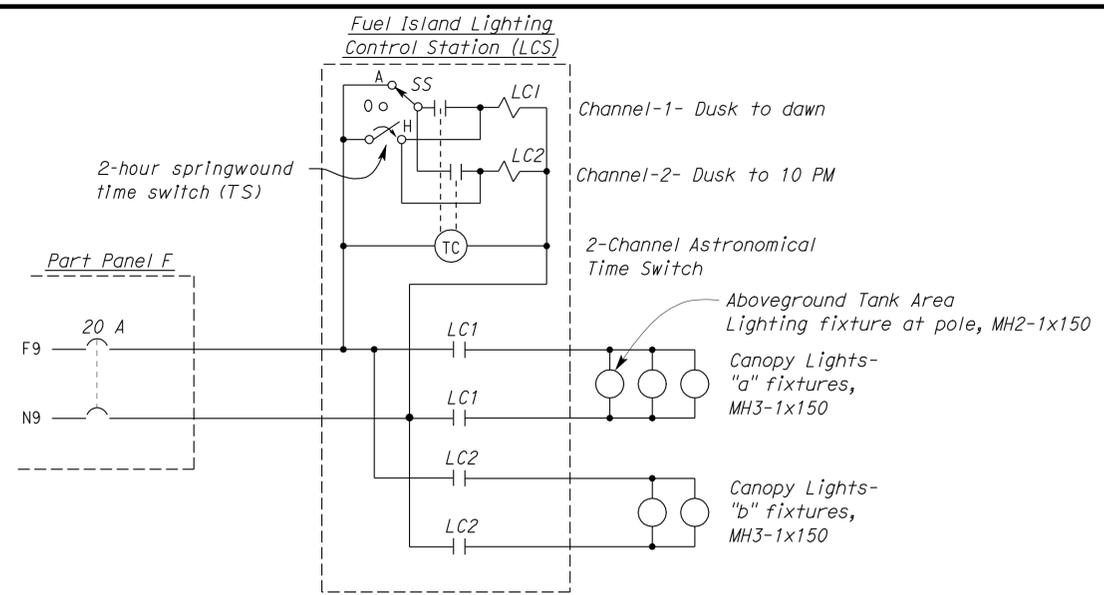
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala, CC, SM	Var	Var	158	160

Reviewed by: <i>Imran Saeed</i>	DATE: 7-30-10
Approval date: 07-13-10	
CSFM FILE #15-41-11-0056 CSFM FILE #15-01-11-0089	
3-7-11 PLANS APPROVAL DATE	

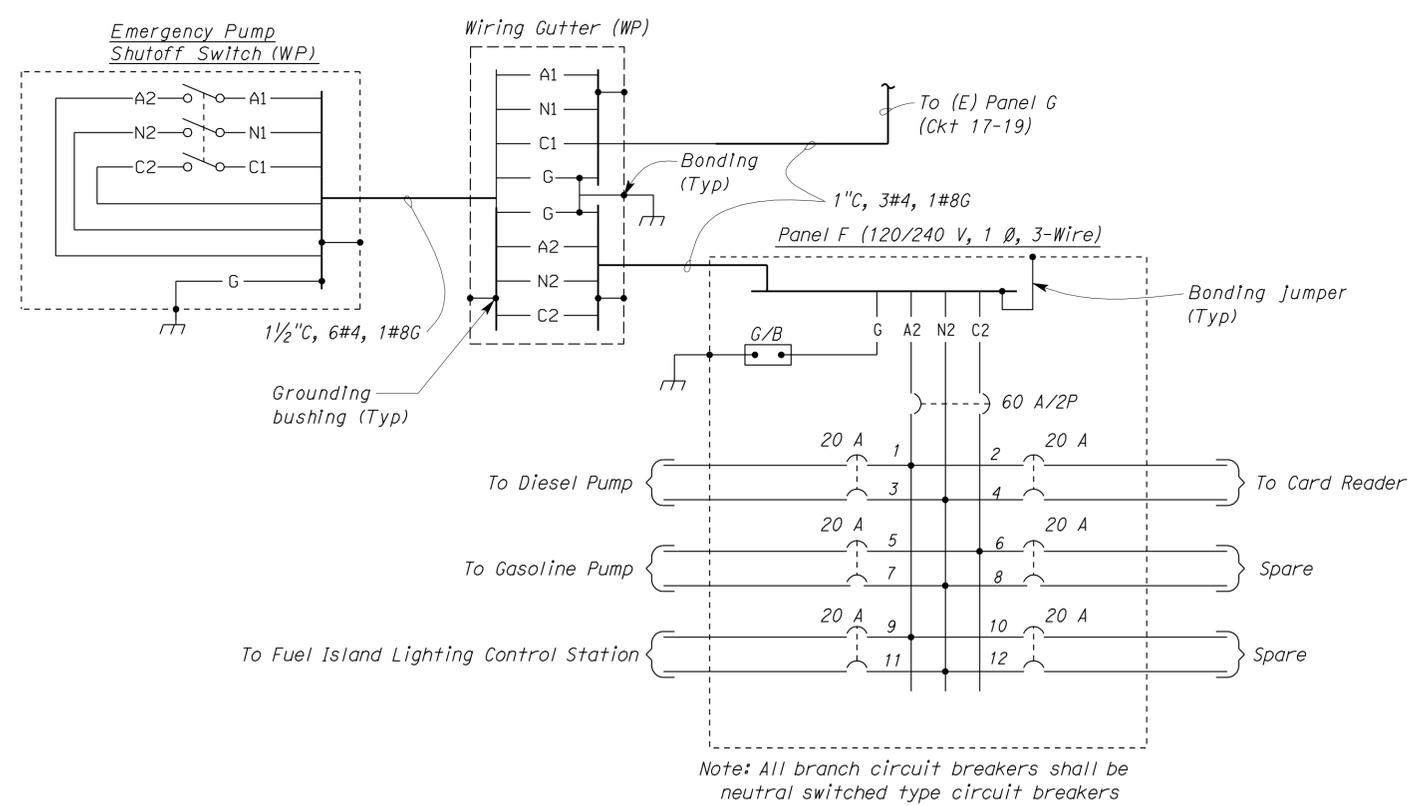
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 CSFM FILE #15-01-11-0089

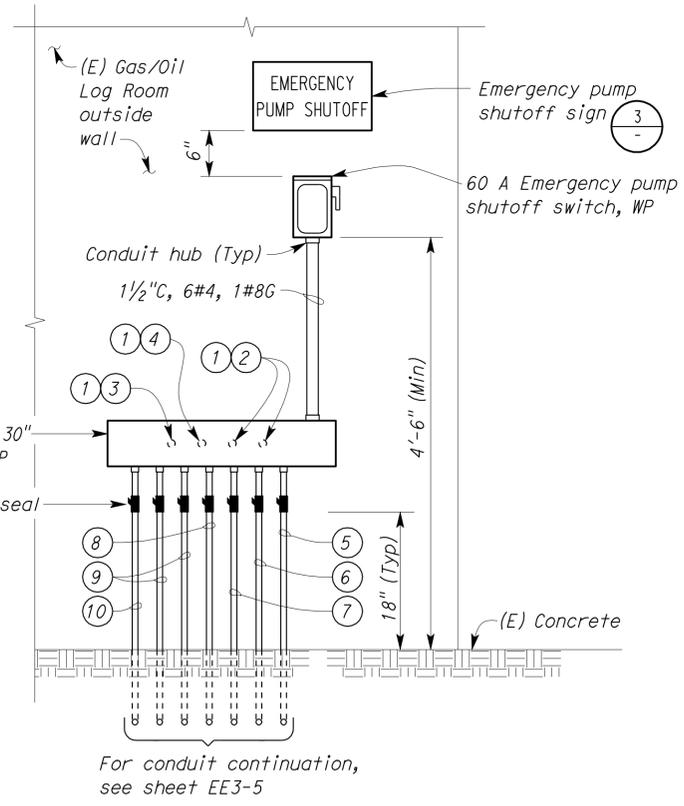


- Notes:
- Core drill through existing wall for conduit penetration.
 - 1" C, 3#4, 1#8G.
 - 1" C, 6#10, 3#10G (Ckt F1, 2, 5).
 - 1" C, 4#10, 2#10G.
 - 1" C, MC, 2#10, 1#10G, to aboveground tank area lighting pole.
 - 3/4" C, MC, 4#10, 1#10G, to canopy lighting.
 - 3/4" C, MC, 2#10, 1#10G, to gasoline dispenser.
 - 3/4" C, MC, 2#10, 1#10G, power to card reader.
 - 3/4" C, MC, pull rope, to card reader (Spare).
 - 3/4" C, MC, 2#10, 1#10G, power to diesel dispenser.

1 LIGHTING CONTROL STATION SCHEMATIC DIAGRAM



2 PARTIAL POWER BLOCK DIAGRAM CONNECTION



A ELEVATION
NO SCALE

Note:
 Sign shall be 16 ga. baked enamel steel with red letters on white background. Letters shall be 2" high. Sign shall be fastened to wall with at least six mechanical fasteners. Adhesive shall not be used. Provide metal shims for each corner, at back of sign, against uneven concrete masonry unit (CMU) surface, for a plumb sign.

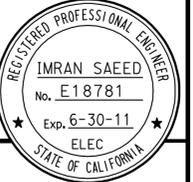
3 SIGN DETAIL
NO SCALE

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DESIGN BY <i>Imran Saeed</i> CHECKED <i>Beatrice Bindu</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 35M5710	DIST 4 VARIOUS FUEL CANOPIES		SHEET EE3-8
			POST MILE 26.9	HALF MOON BAY M.S.	DETAILS	
			REVISION DATES (PRELIMINARY STAGE ONLY)			SHEET
DETAILS BY <i>Andreasen/Ngov/Monson</i> CHECKED <i>Beatrice Bindu</i>	UNIT PROJECT NUMBER & PHASE EA 3A0901	3618 04000009271	DISREGARD PRINTS BEARING EARLIER REVISION DATES			6/7/09 3/26/10 4/7/10 4/7/10 7/30/10
QUANTITIES BY <i>Imran Saeed</i> CHECKED <i>Beatrice Bindu</i>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	DOES SD Imperial Rev. 1/07			11-MAR-2011 14:22

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Alameda, Contra Costa, San Mateo	Var	Var	159	160

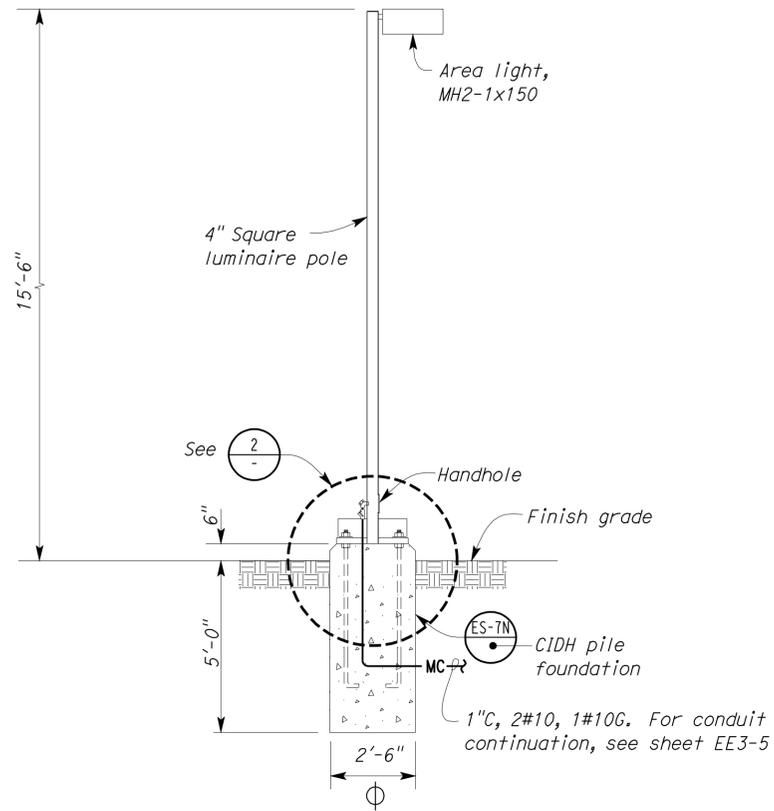
Imran Saeed
 REGISTERED ELECTRICAL ENGINEER DATE 7-30-10



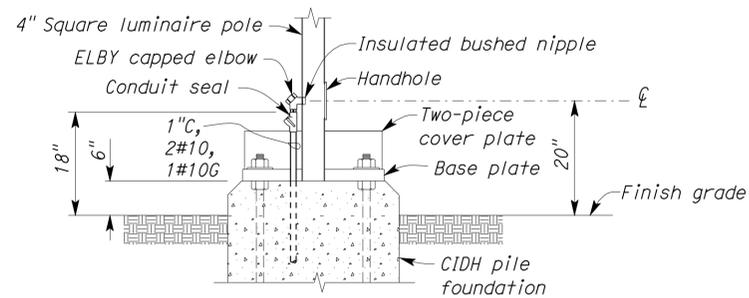
3-7-11
 PLANS APPROVAL DATE

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 Reviewed by: *Jason D. DeWitt*
 Approval date: 07-13-10
 CSFM FILE #15-41-11-0056
 CSFM FILE #15-01-11-0089



1 **DETAIL**
POLE MOUNTED LIGHTING FIXTURE
 NO SCALE



2 **DETAIL**
 NO SCALE

DESIGN	BY <i>Imran Saeed</i>	CHECKED <i>Beatrice Bindu</i>
DETAILS	BY <i>Linda Monson</i>	CHECKED <i>Beatrice Bindu</i>
QUANTITIES	BY <i>Imran Saeed</i>	CHECKED <i>Beatrice Bindu</i>

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO.	35M5710
POST MILE	26.9

DIST 4 VARIOUS FUEL CANOPIES
 HALF MOON BAY M.S.
 DETAILS

SHEET **EE3-9** OF

CALIFORNIA STATE FIRE MARSHAL APPROVED
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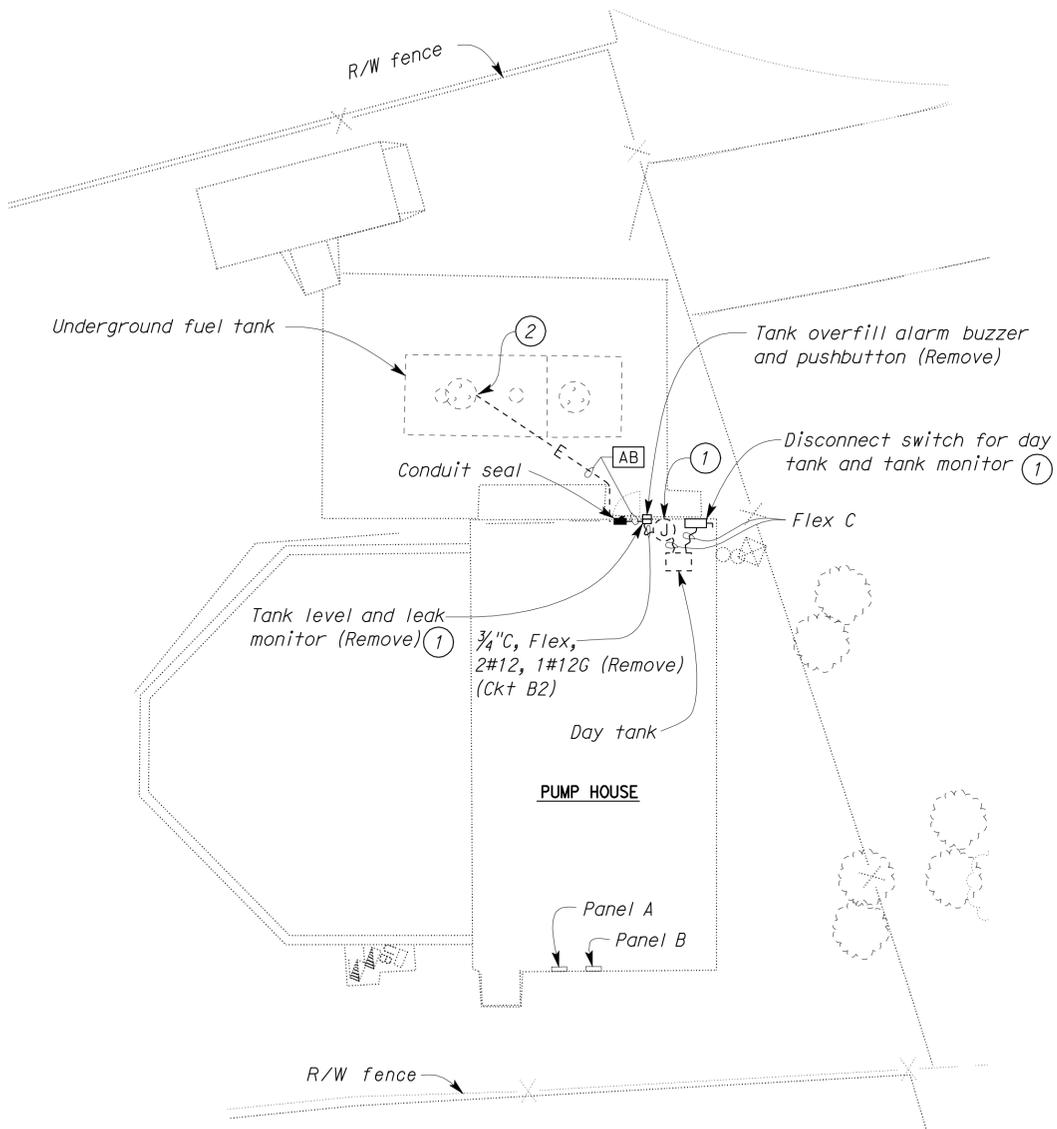
Reviewed by: *[Signature]*
 JASON D. DeWITT
 Approval date: 07-13-10

CSFM FILE #15-41-11-0056
 CSFM FILE #15-01-11-0089

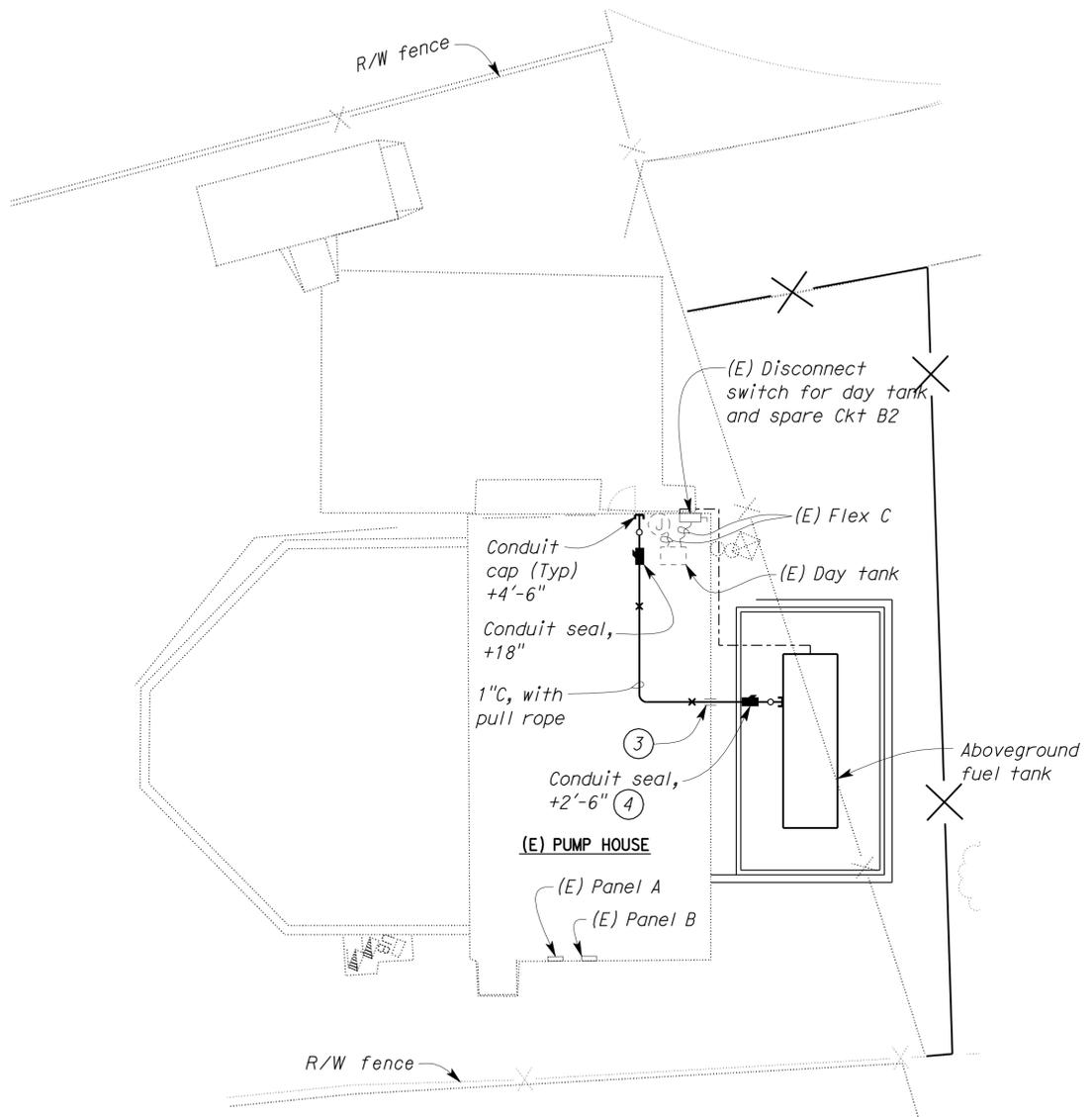
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Alameda, CC, SM	Var	Var	160	160

3-7-11
 PLANS APPROVAL DATE

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EXISTING ENLARGED PLAN
 SCALE 1" = 10'-0"



MODIFIED ENLARGED PLAN
 SCALE 1" = 10'-0"

General Notes:

- A. Installation shall meet requirements of 2007 California Electrical Code, Article 500.

Notes:

- 1 Switch off power to tank monitor from disconnect switch. Remove power conductors (Ckt B2) from tank monitor power terminals. Install wire caps to power conductors, label as "Ckt B2" and leave inside junction box for future use. Update Panel B circuit directory to label Ckt B2 as "SPARE" in JB near day tank disconnect.
- 2 Disconnect leak sensor and level sensor conductors from tank level and leak monitor. Salvage sensors and tank monitor at the disposition of the Engineer. Remove exposed conduit and associated conductors. For Underground Fuel Tank Removal Plan, see Architectural plans.
- 3 Core drill through existing wall for conduit penetration.
- 4 Conduit seals shall be listed per California Electrical Code, Section 514-9 (A) and 514-9 (B).

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN BY <i>Imran Saeed</i>	CHECKED <i>Beatrice Bindu</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 35-0292W	DIST 4 VARIOUS FUEL CANOPIES RAVENSWOOD PUMP PLANT	SHEET EE4-1		
				POST MILE 28.0				
DETAILS BY <i>Andreasen/Monson</i>	CHECKED <i>Imran Saeed</i>	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT PROJECT NUMBER & PHASE 3618 0400009271	DISREGARD PRINTS BEARING EARLIER REVISION DATES				SHEET OF
QUANTITIES BY <i>Imran Saeed</i>	CHECKED <i>Beatrice Bindu</i>			REVISION DATES (PRELIMINARY STAGE ONLY) 6/3/09 3/29/10 4/18/10 4/18/10 7/9/10 7/18/10 7/30/10				

11-MAR-2011 14:23
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