

INDEX OF PLANS

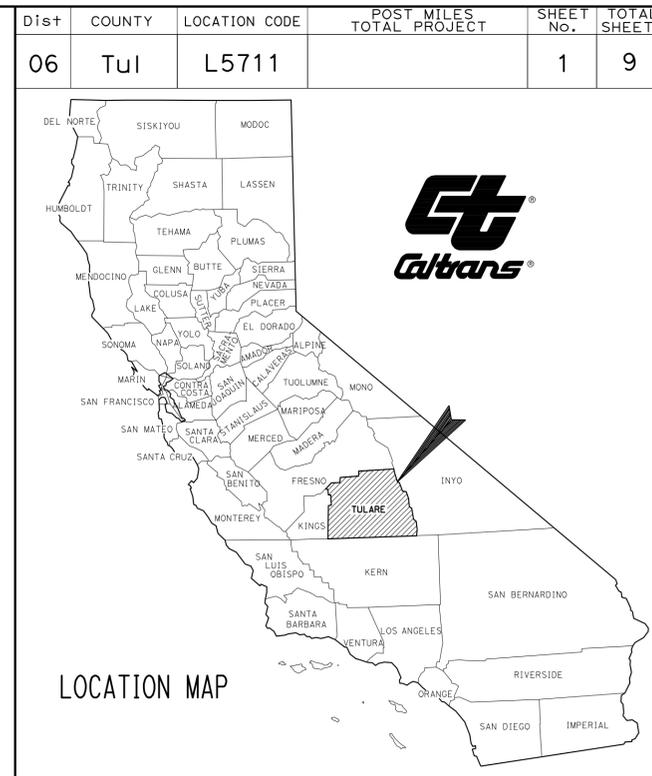
SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2-3	TYPICAL CROSS SECTIONS
4	LAYOUT AND CONSTRUCTION DETAILS
5	SUMMARY OF QUANTITIES
6-9	REVISED STANDARD PLANS

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

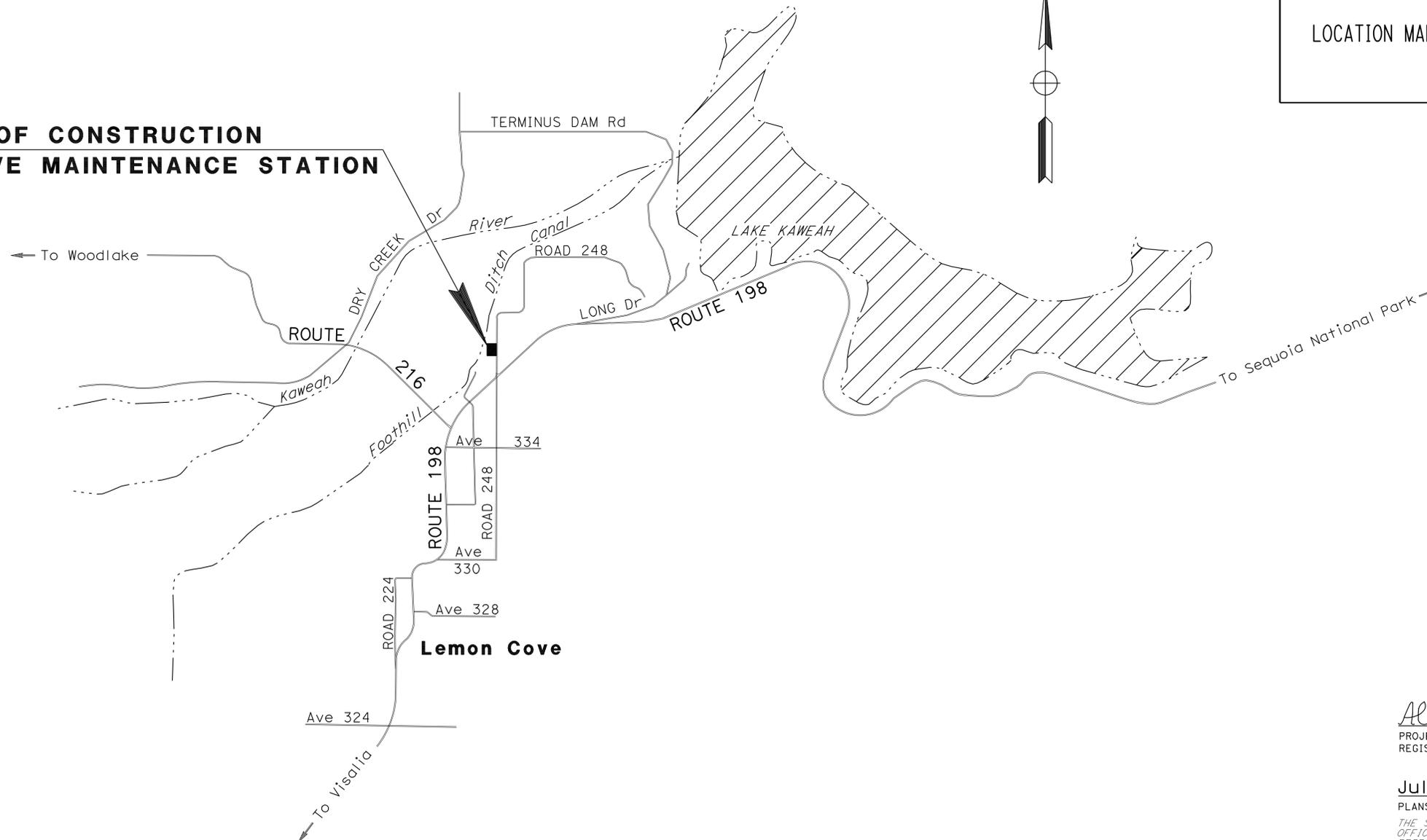
STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR BUILDING CONSTRUCTION ADJACENT TO  
STATE HIGHWAY  
IN TULARE COUNTY  
NEAR LEMON COVE  
AT THE LEMON COVE MAINTENANCE STATION

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



LOCATION OF CONSTRUCTION  
LEMON COVE MAINTENANCE STATION



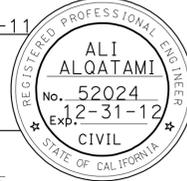
PROJECT MANAGER  
JUDY AGUILAR

DESIGN ENGINEER  
ALI ALQATAMI

*Ali Alqatami* 07-15-11  
PROJECT ENGINEER DATE  
REGISTERED CIVIL ENGINEER

July 18, 2011  
PLANS APPROVAL DATE

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THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

NO SCALE

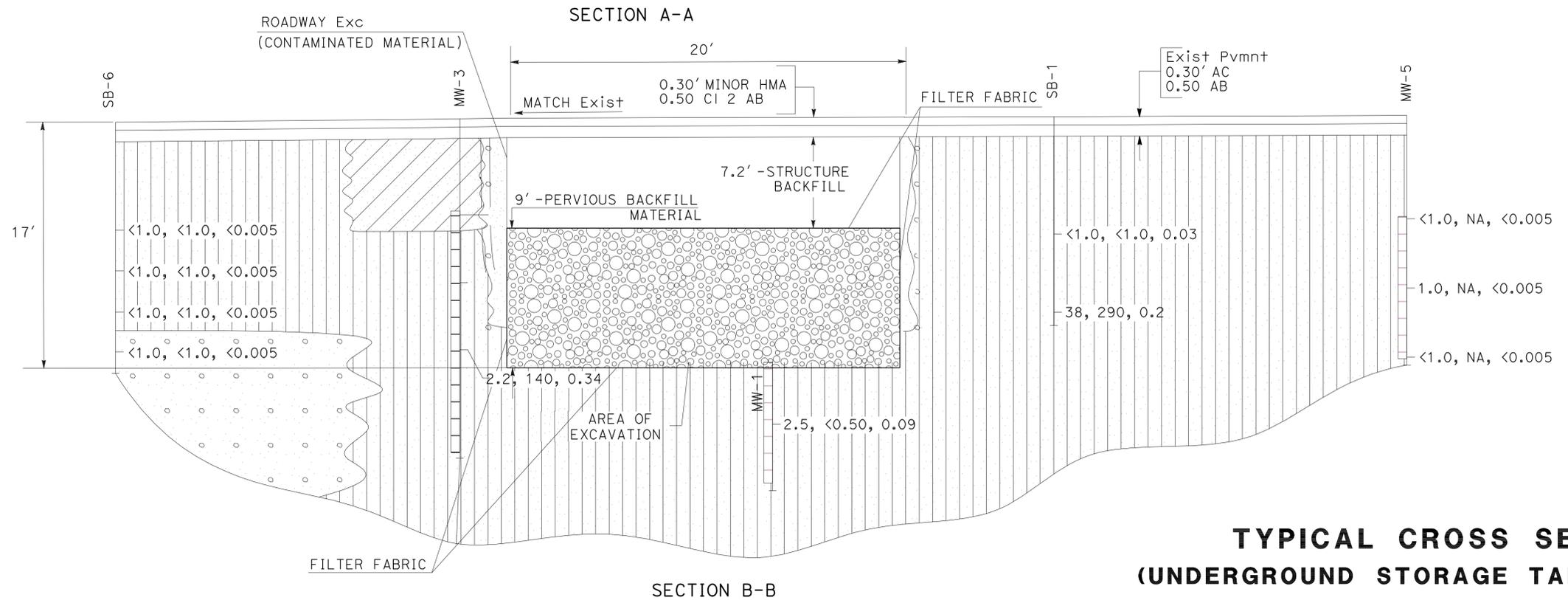
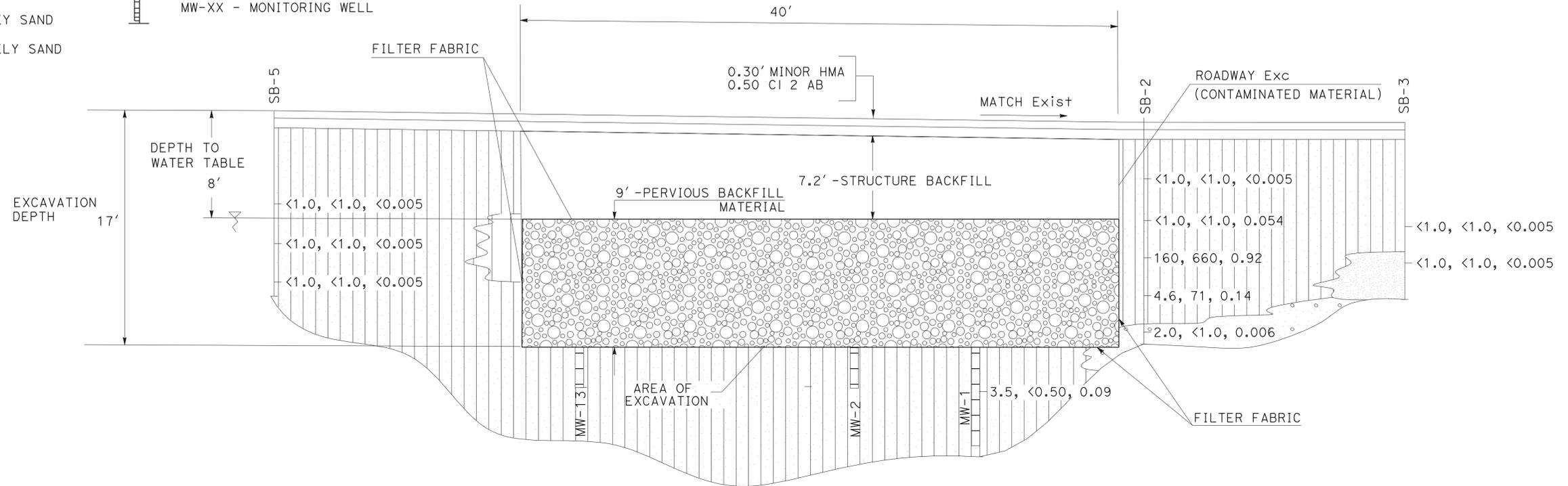
CONTRACT No.	06-OF8004
PROJECT ID	060000084

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Tul	L5711		2	9
<i>Ali Alqatami</i> 07-15-11 REGISTERED CIVIL ENGINEER DATE					
7-18-11			PLANS APPROVAL DATE		
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

**NOTE:** 1. ENCAPSULATE ENTIRE PERVIOUS BACKFILL MATERIAL IN FILTER FABRIC, OVERLAPP 1 FOOT AT CLOSURE.

**LEGEND**

- SILTY SAND
- SAND
- SILT
- CLAYEY SAND
- GRAVELLY SAND
- SB-X - SOIL BORING LOCATION
- MW-XX - MONITORING WELL



**TYPICAL CROSS SECTIONS  
(UNDERGROUND STORAGE TANK AREA)  
NO SCALE X-1**

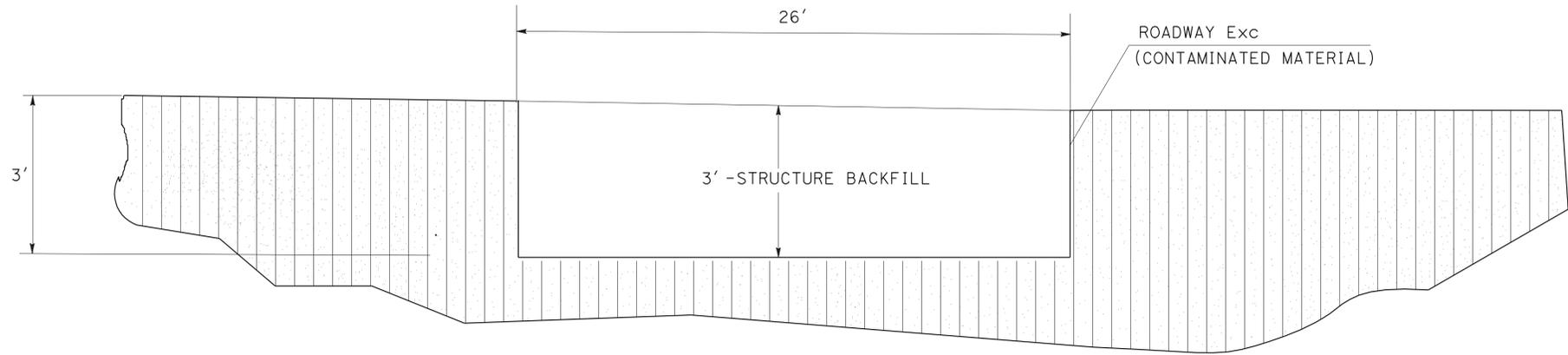
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION DESIGN  
 CALTRANS  
 FUNCTIONAL SUPERVISOR RORY QUINCE  
 CALCULATED/DESIGNED BY CHECKED BY  
 FERNANDO MORALES ALI ALQATAMI  
 REVISED BY DATE REVISED  
 USERNAME => s115755  
 DGN FILE => 60F800ca001.dgn



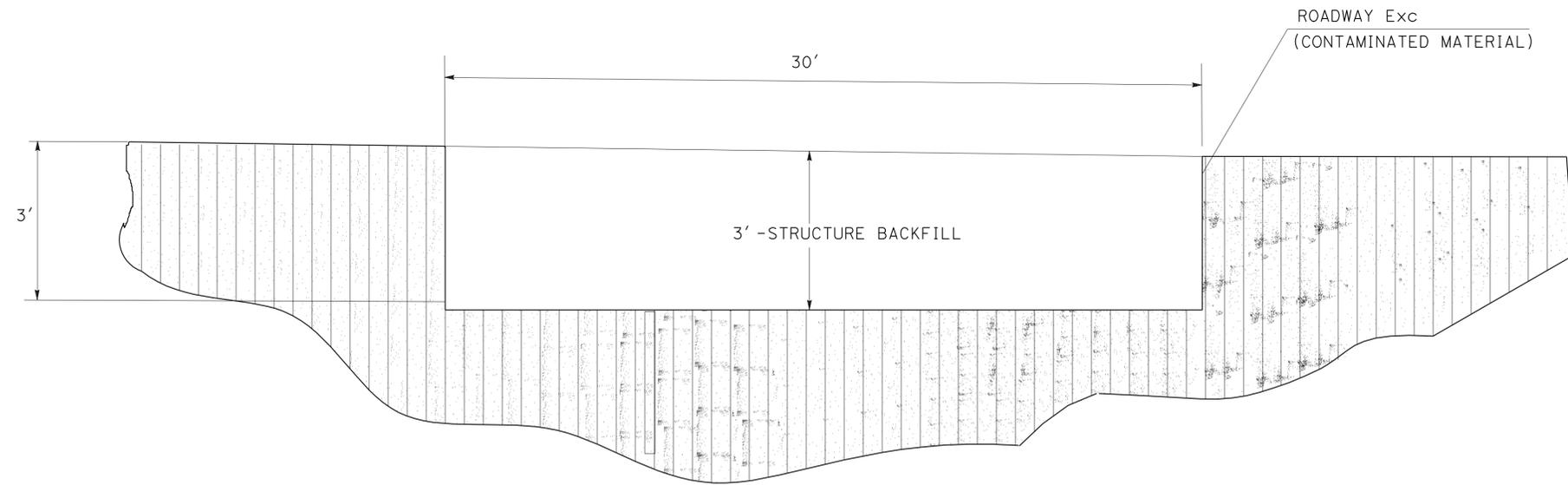
LAST REVISION DATE PLOTTED => 27-JUL-2011  
 07-18-11 TIME PLOTTED => 14:28

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Tul	L5711		3	9
<i>Ali Alqatami</i> 07-15-11 REGISTERED CIVIL ENGINEER DATE					
7-18-11 PLANS APPROVAL DATE					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

DESIGNED BY	REVISIONS
CALCULATED / DESIGNED BY CHECKED BY	REVISED BY DATE REVISED
FUNCTIONAL SUPERVISOR RORY QUINCE	FERNANDO MORALES ALI ALOATAMI
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION <b>Caltrans</b> <b>DESIGN</b>	



SECTION C-C



SECTION D-D

**TYPICAL CROSS SECTIONS  
(WASH RACK AREA)**

**X-2**

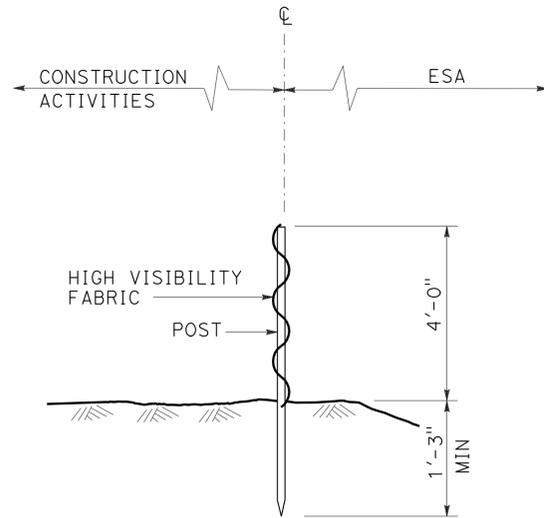
NO SCALE

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Tul	L5711		4	9
<i>Ali Alqatami</i> 07-15-11 REGISTERED CIVIL ENGINEER DATE					
7-18-11			PLANS APPROVAL DATE		
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

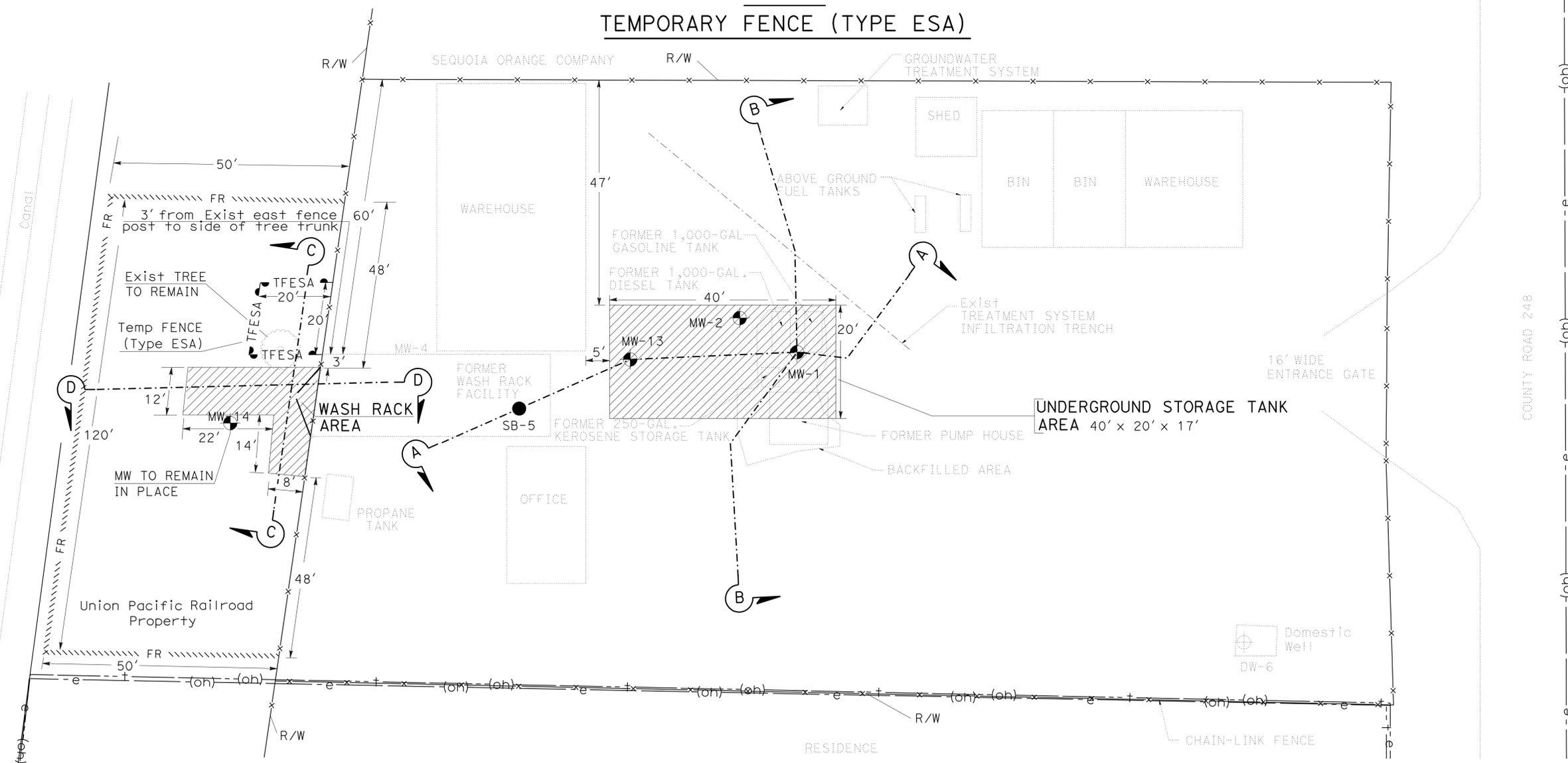
NOTE: 1. MONITORING WELL 1, 2, AND 13 TO BE DESTROYED PRIOR TO START OF EXCAVATION.

**LEGEND**

- e---(oh)--- Exist Power Line
- +---(oh)--- Exist Telephone Line
- ////////// FR ////////// Temporary Fiber Roll
- TFESA ●●●● Temporary Fence (Type ESA), Place 3 feet minimum from tree trunk
- SB-X - SOIL BORING LOCATION
- MW-XX - MONITORING WELL
- ROADWAY EXCAVATION (CONTAMINATED MATERIAL)



**SECTION  
TEMPORARY FENCE (TYPE ESA)**



**LAYOUT AND  
CONSTRUCTION DETAILS  
NO SCALE  
L - 1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DESIGN  
 RORY QUINCE  
 FUNCTIONAL SUPERVISOR  
 CHECKED BY  
 CALCULATED/DESIGNED BY  
 ALI ALOQATAMI  
 FERNANDO MORALES  
 REVISED BY  
 DATE REVISED

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DESIGN  
 FUNCTIONAL SUPERVISOR  
 RORY QUINCE  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 FERNANDO MORALES  
 ALI ALOATAMI  
 REVISED BY  
 DATE REVISED

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Tul	L5711		5	9

*Ali Alqatami* 07-15-11  
 REGISTERED CIVIL ENGINEER DATE

7-18-11  
 PLANS APPROVAL DATE

No. 52024  
 Exp 12-31-12  
 CIVIL

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

### EARTHWORK

LOCATION	ROADWAY EXCAVATION (CONTAMINATED MATERIAL)	STRUCTURE BACKFILL	PERVIOUS BACKFILL MATERIAL	CLASS 2 AGGREGATE BASE
	CY	CY	CY	CY
UNDERGROUND STORAGE TANK AREA	510	230	280	20
WASH RACK AREA	55	55		
TOTAL	565	285	280	20

### MINOR HOT MIX ASPHALT

LOCATION	TON
UNDERGROUND STORAGE TANK AREA	20
TOTAL	20

### DESTROY WELL

LOCATION	EA
UNDERGROUND STORAGE TANK AREA	3
TOTAL	3

### FILTER FABRIC

LOCATION	SQYD
UNDERGROUND STORAGE TANK AREA	300
TOTAL	300

### TEMPORARY FENCE (TYPE ESA)

LOCATION	LF
WASH RACK AREA	60
TOTAL	60

### TEMPORARY WATER POLLUTION CONTROL QUANTITIES

LOCATION	TEMPORARY FIBER ROLL	TEMPORARY COVER
	LF	SQYD
WASH RACK AREA	220	200
TOTAL	220	200

## SUMMARY OF QUANTITIES Q-1

LAST REVISION | DATE PLOTTED => 27-JUL-2011  
 07-18-11 | TIME PLOTTED => 14:29

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Tul	L5711		6	9

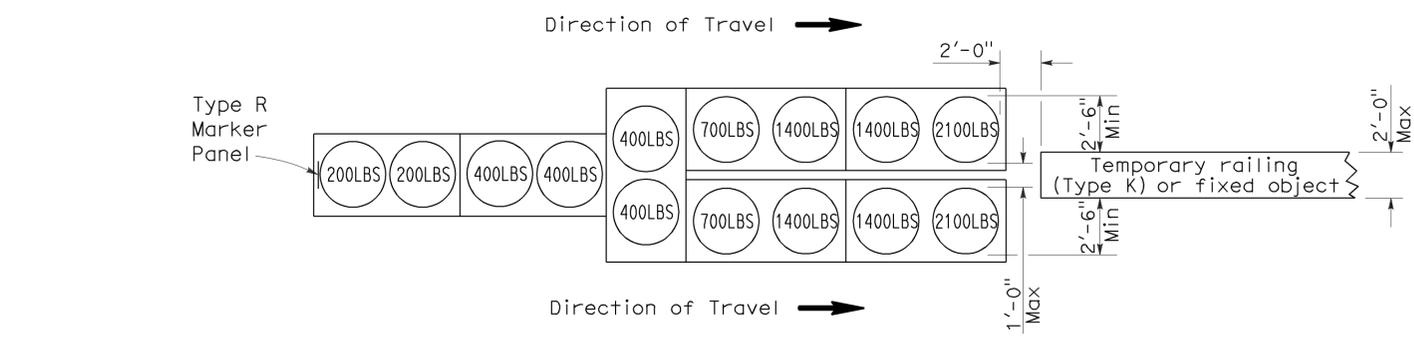
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

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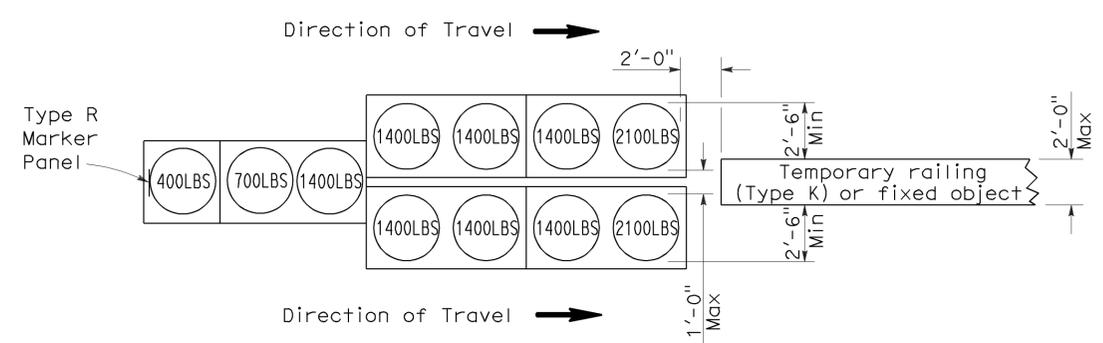
REGISTERED PROFESSIONAL ENGINEER  
Randell D. Hiatt  
No. C50200  
Exp. 6-30-09  
CIVIL  
STATE OF CALIFORNIA

To accompany plans dated 7-18-11



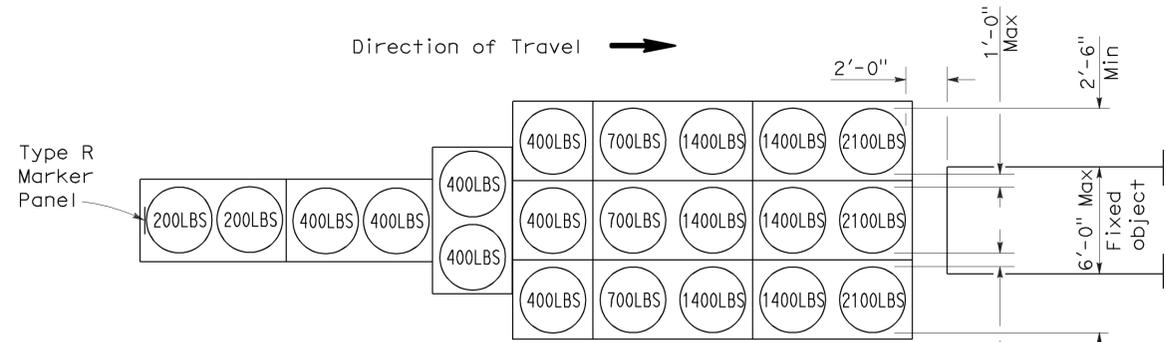
**ARRAY 'TU14'**

Approach speed 45 mph or more



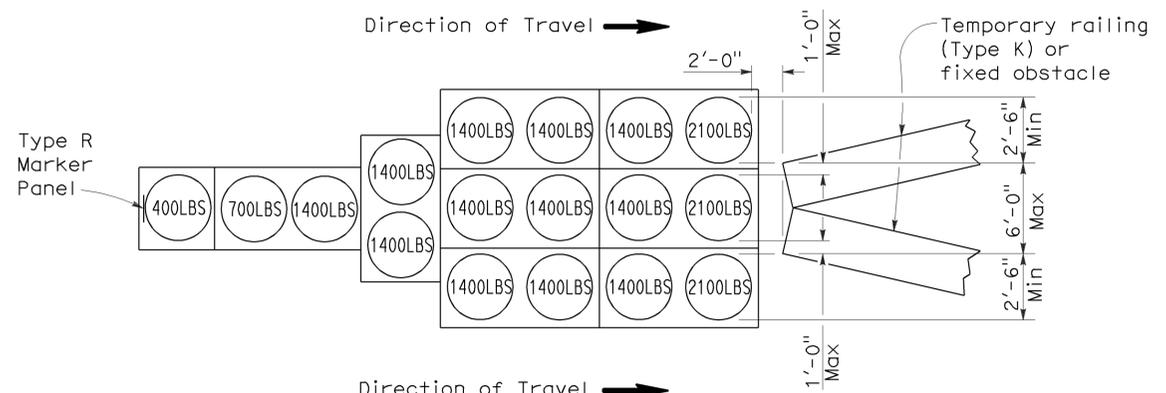
**ARRAY 'TU11'**

Approach speed less than 45 mph



**ARRAY 'TU21'**

Approach speed 45 mph or more

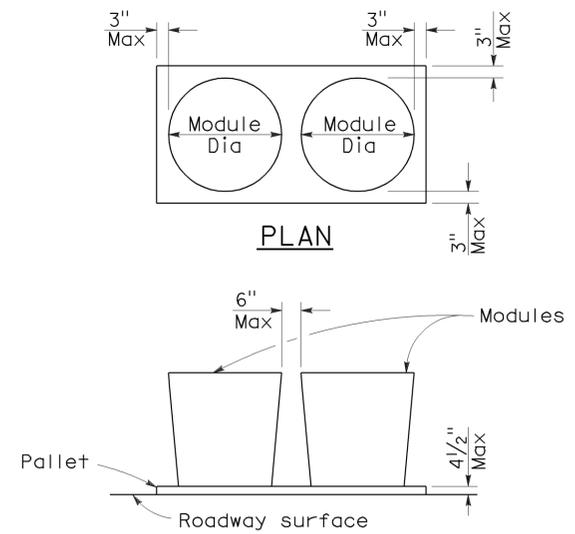


**ARRAY 'TU17'**

Approach speed less than 45 mph

**NOTES:**

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



**CRASH CUSHION PALLET DETAIL**  
See Note 7

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

NO SCALE

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

**REVISED STANDARD PLAN RSP T1A**

2006 REVISED STANDARD PLAN RSP T1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Tul	L5711		7	9

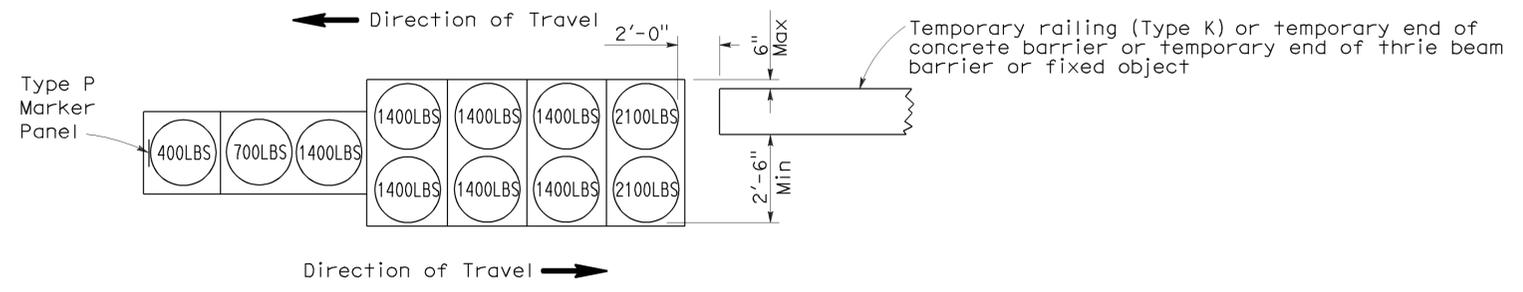
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

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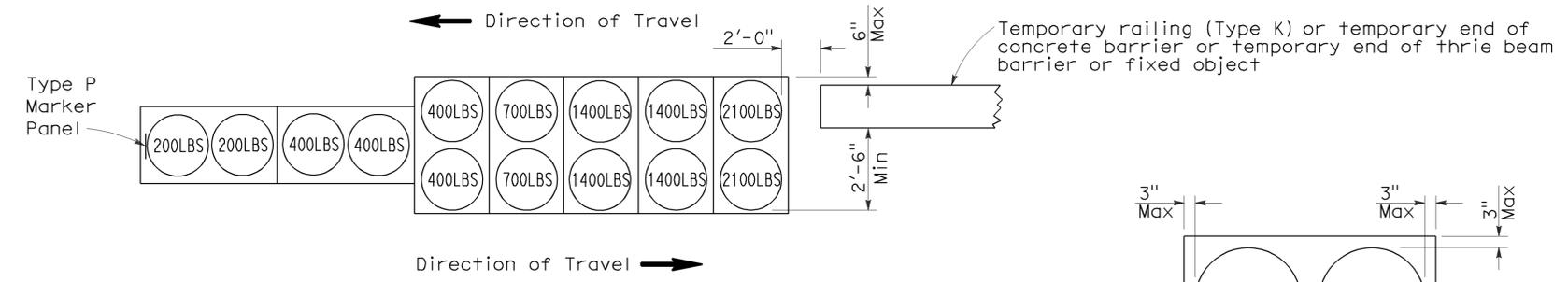
REGISTERED PROFESSIONAL ENGINEER  
Randell D. Hiatt  
No. C50200  
Exp. 6-30-09  
CIVIL  
STATE OF CALIFORNIA

To accompany plans dated 7-18-11



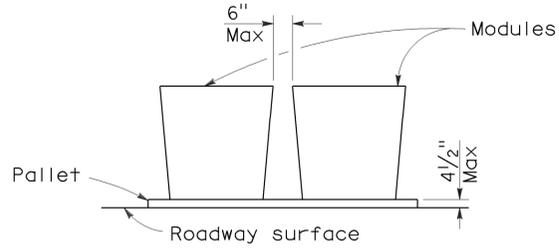
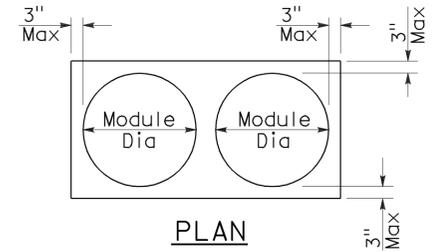
**ARRAY 'TB11'**

Approach speed less than 45 mph



**ARRAY 'TB14'**

Approach speed 45 mph or more



**CRASH CUSHION PALLET DETAIL**  
See Note 7

**NOTES:**

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

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**TEMPORARY CRASH CUSHION,  
SAND FILLED  
(BIDIRECTIONAL)**  
NO SCALE

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

**REVISED STANDARD PLAN RSP T1B**

2006 REVISED STANDARD PLAN RSP T1B

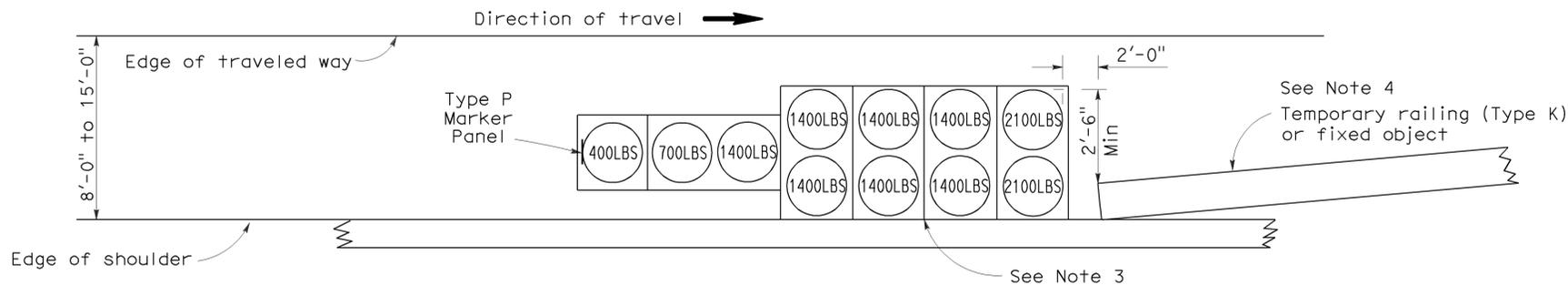
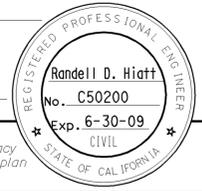
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Tul	L5711		8	9

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

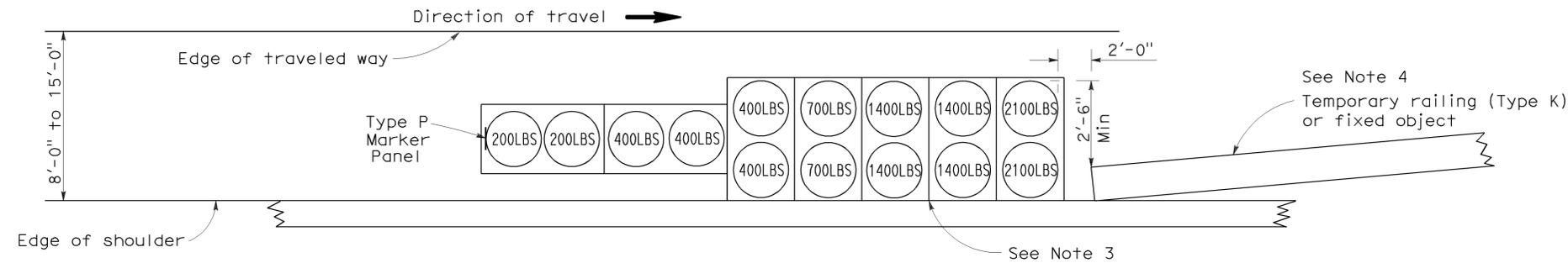
June 6, 2008  
PLANS APPROVAL DATE

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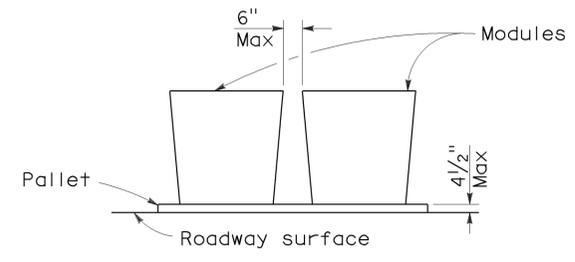
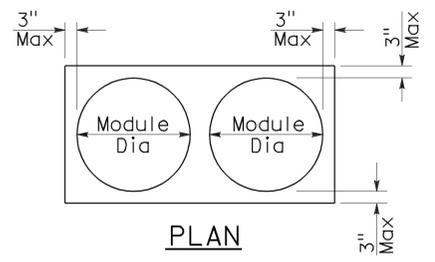
To accompany plans dated 7-18-11



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



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



**CRASH CUSHION PALLET DETAIL**  
See Note 11

**NOTES:**

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

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**TEMPORARY CRASH CUSHION,  
SAND FILLED  
(SHOULDER INSTALLATIONS)**  
NO SCALE

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

**REVISED STANDARD PLAN RSP T2**

2006 REVISED STANDARD PLAN RSP T2

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Tul	L5711		9	9

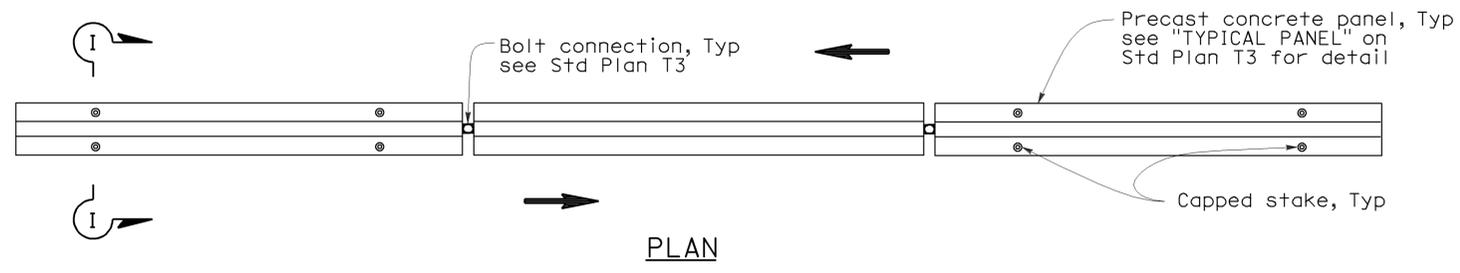
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

May 20, 2011  
PLANS APPROVAL DATE

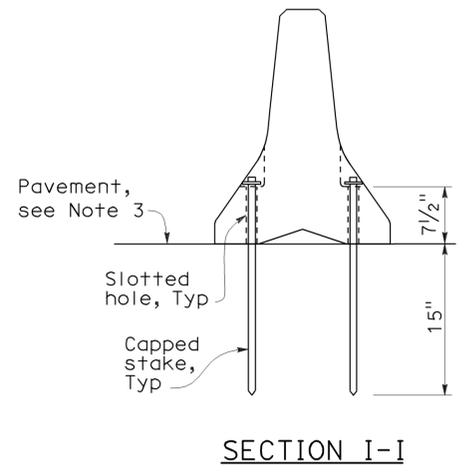
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REGISTERED PROFESSIONAL ENGINEER  
Randell D. Hiatt  
No. C50200  
Exp. 6-30-11  
CIVIL  
STATE OF CALIFORNIA

To accompany plans dated 7-18-11



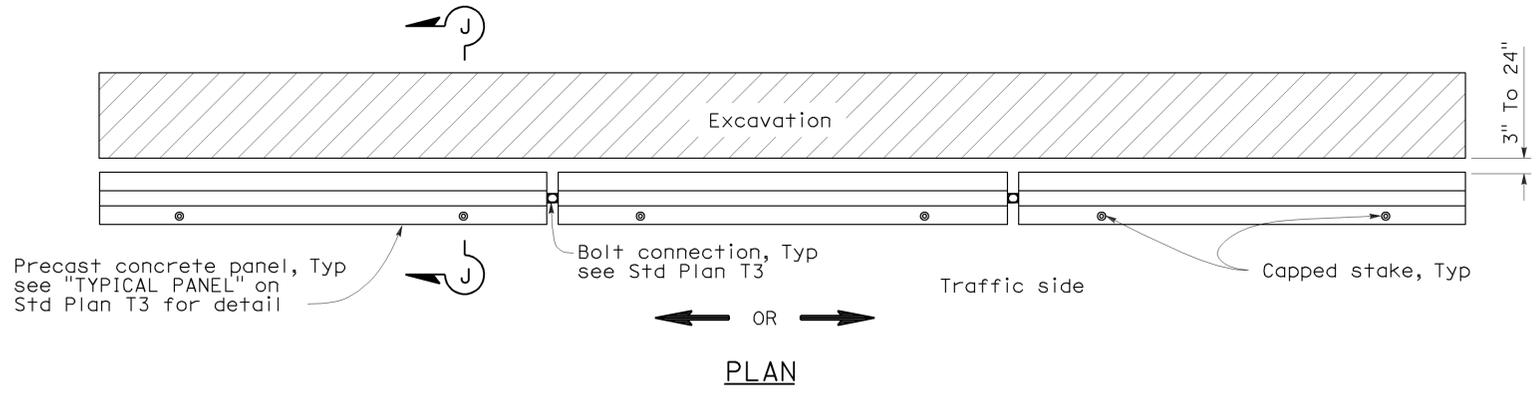
**RAILING STAKING CONFIGURATION FOR TWO-WAY TRAFFIC**  
See Note 1



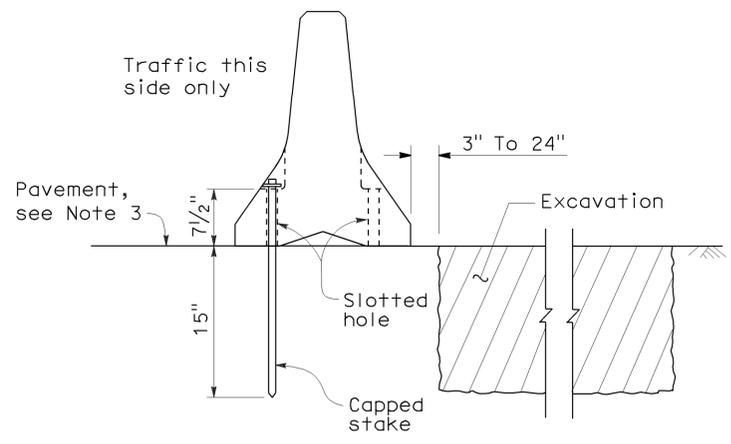
**SECTION I-I**

**NOTES:**

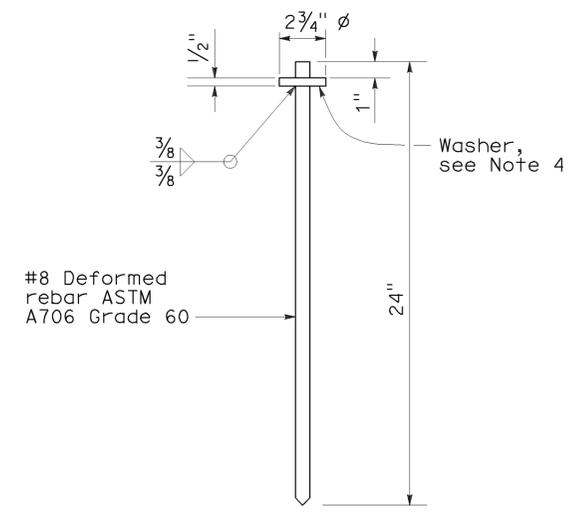
1. Where Type K Temporary Railing is placed as a temporary or long term barrier in two-way traffic on highways with less than 24" from the edge of traveled way, use four capped stakes per every other panel with end panels staked.
2. Where Type K Temporary Railing is placed 3" to 24" from the edge of an excavation on highways, use two capped stakes per panel along the traffic side.
3. Staked Type K Temporary Railing must be supported by at least 4" thick concrete, hot mix asphalt or existing asphalt concrete pavement.
4. The minimum yield strength for the washer must be 60,000 psi.
5. Direction of adjacent traffic indicated by  $\Rightarrow$ .



**RAILING STAKING CONFIGURATION ADJACENT TO AN EXCAVATION**  
See Note 2



**SECTION J-J**



**CAPPED STAKE DETAIL**

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**TEMPORARY RAILING  
(TYPE K)**  
NO SCALE

NSP T3A DATED MAY 20, 2011 SUPPLEMENTS  
THE STANDARD PLANS BOOK DATED MAY 2006.

**NEW STANDARD PLAN NSP T3A**

2006 NEW STANDARD PLAN NSP T3A