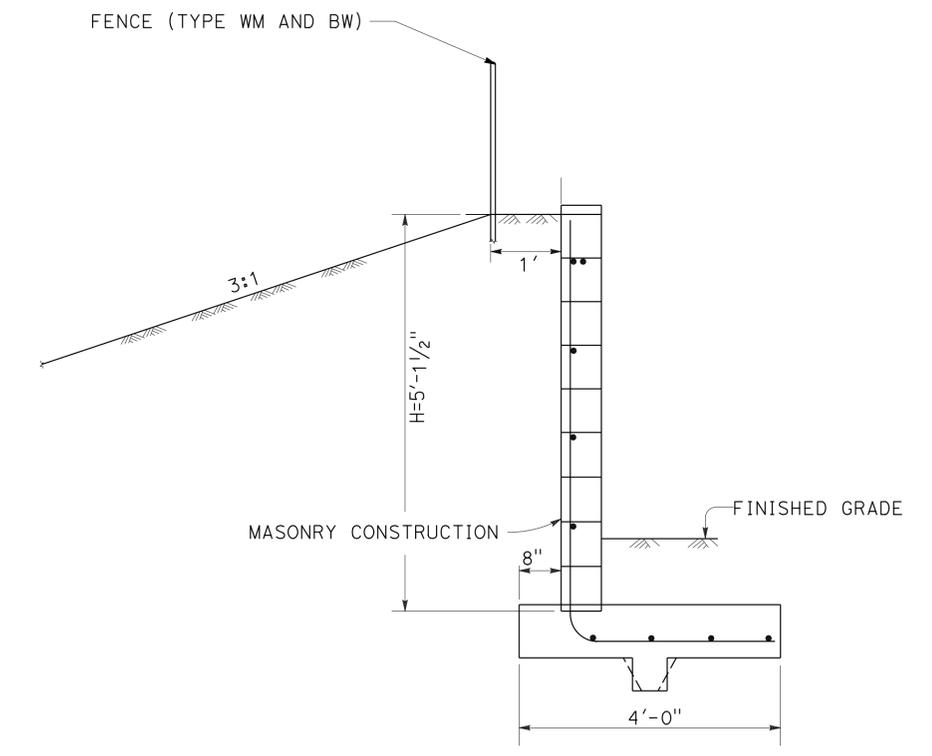
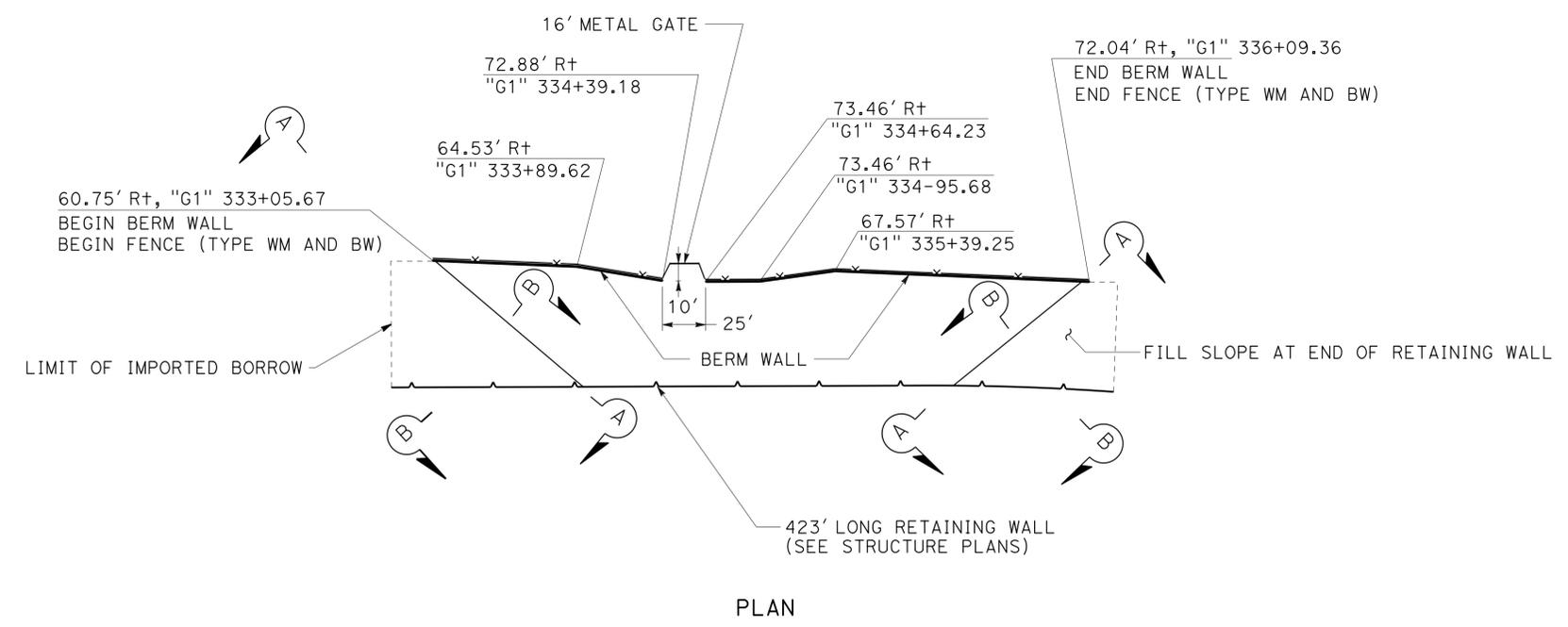
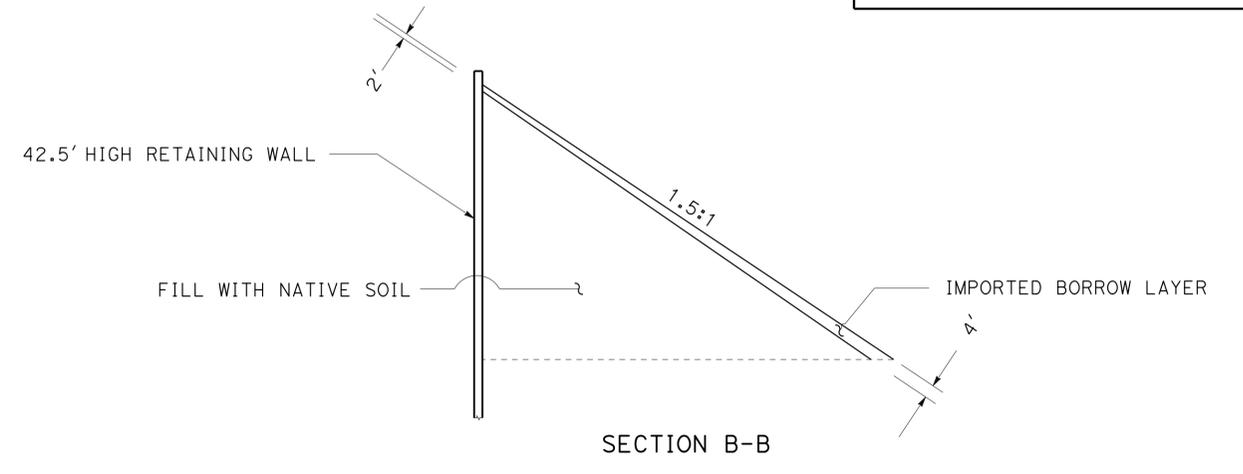
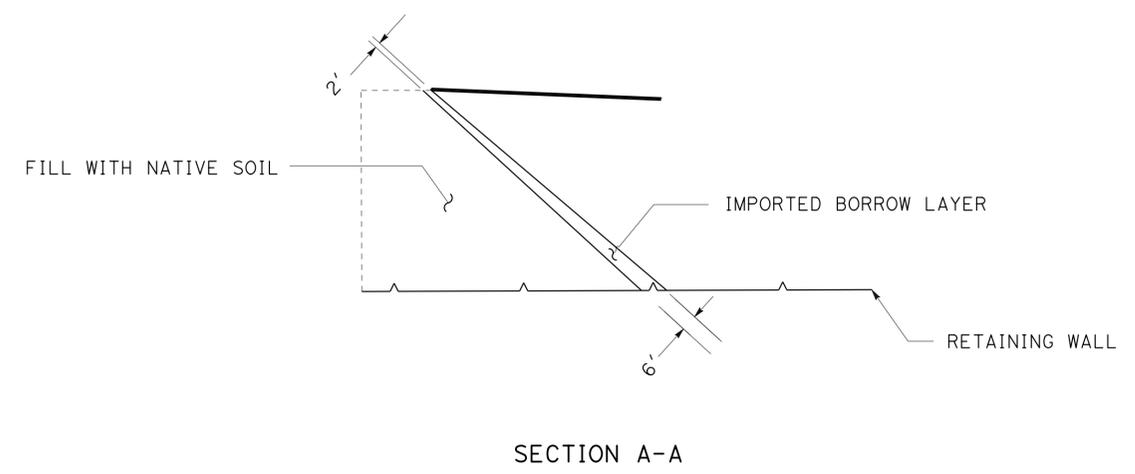


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	3.8, 5.3	12	99
			<i>Nasim Hasan</i> 3-28-16 REGISTERED CIVIL ENGINEER DATE		
			3-28-16 PLANS APPROVAL DATE		
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

**NOTES:**

- SECTION A-A IS ON A HORIZONTAL PLANE AT THE BASE OF SLOPES
- SECTION B-B IS ON A VERTICAL PLANE AT MID DISTANCE BETWEEN BERM AND RETAINING WALL
- FOR BERM WALL DETAILS SEE Std plan RSP B3-7A



**DETAILS SHOWING BERM WALL & IMPORTED BORROW ON SLOPES AT RETAINING WALL ENDS**

"G1" 332+92.50 TO 337+26.12

**REPLACED PER ADDENDUM No. 1 DATED JULY 22, 2016**

**CONSTRUCTION DETAILS**  
NO SCALE

**C-5**

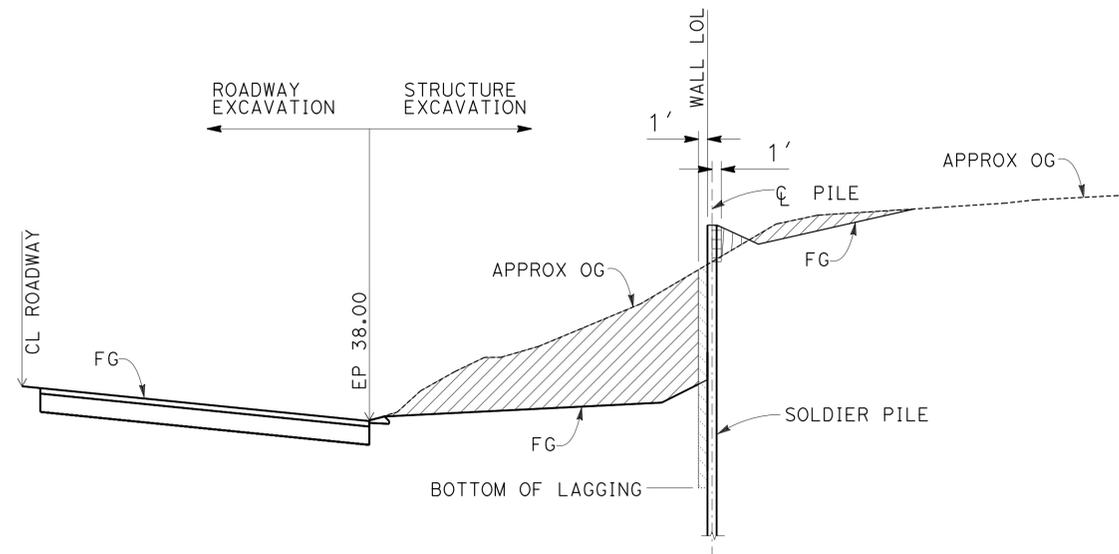
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISOR	DATE
<b>Caltrans</b> 03-DESIGN	ALI KIANI	NASIM HASAN	DAVID HOPPER
		CALCULATED-DESIGNED BY	CHECKED BY

1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	3.8, 5.3	12A	99
		3-28-16		DATE	
		3-28-16		PLANS APPROVAL DATE	
REGISTERED CIVIL ENGINEER No. 74083 Exp. 6-30-17 CIVIL					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

**NOTES:**

1. EMBANKMENT IS NOT A SEPERATE PAY ITEM.
2. UNDERDRAIN, SEE "ROADWAY PLANS".

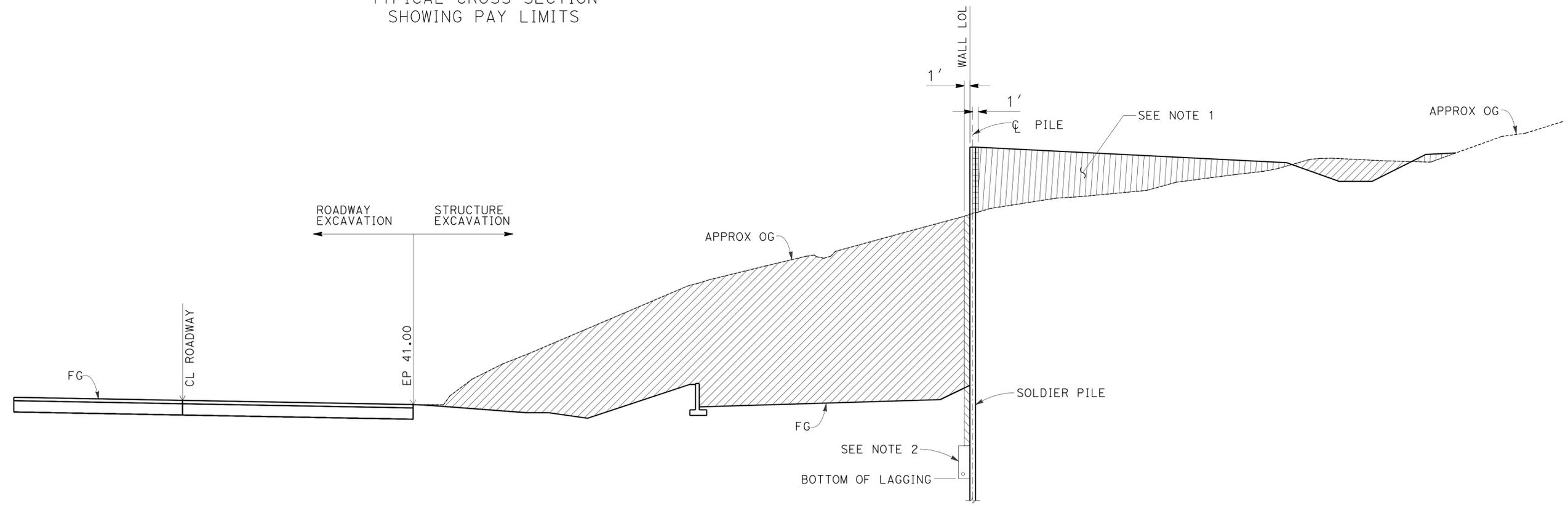


**LOCATION 1**

TYPICAL CROSS SECTION SHOWING PAY LIMITS

**LEGENDS:**

- Structure Excavation, see "Roadway Plans".
- Embankment, see "Roadway Plans". (Note 1)
- Structure Excavation Soldier Pile Wall, see "Structure Plans".
- Structure Backfill Soldier Pile Wall, see "Structure Plans".



**LOCATION 2**

TYPICAL CROSS SECTION SHOWING PAY LIMITS

**1** ADDED PER ADDENDUM No. 1 DATED JULY 22, 2016

**CONSTRUCTION DETAILS**  
NO SCALE

**C-5A**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	DESIGNED BY	REVISIONS
<b>Caltrans</b>	ALI KIANI	NASIM HASAN	
<b>03-DESIGN</b>		DAVID HOPPER	



LAST REVISION | DATE PLOTTED => 19-JUL-2016  
00-00-00 | TIME PLOTTED => 14:02



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	3.8, 5.3	40	99

*Laura Lazzarotto*  
 LICENSED LANDSCAPE ARCHITECT  
 3-28-16  
 PLANS APPROVAL DATE

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

**NOTES:**

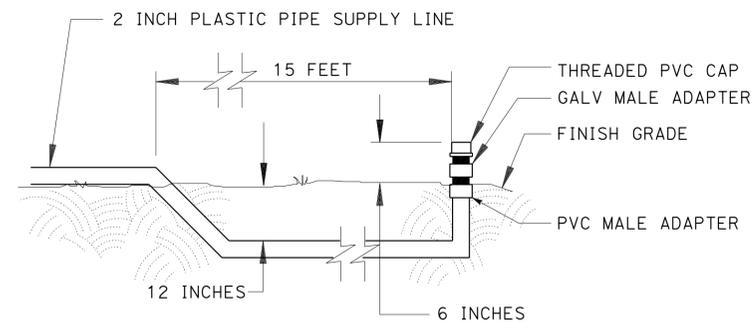
- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- No. 1 SHRUBS TO HAVE 2 BUBBLERS, No. 5 SHRUBS TO HAVE 3 BUBBLERS EACH, No. 15 TREES TO HAVE 4 BUBBLERS EACH.

**IRRIGATION LEGEND**

- LOW PRESSURE LAYFLAT HOSE
- POLYETHYLENE DRIP PIPE
- WYE STRAINER IN PLASTIC IRRIGAT. BOX

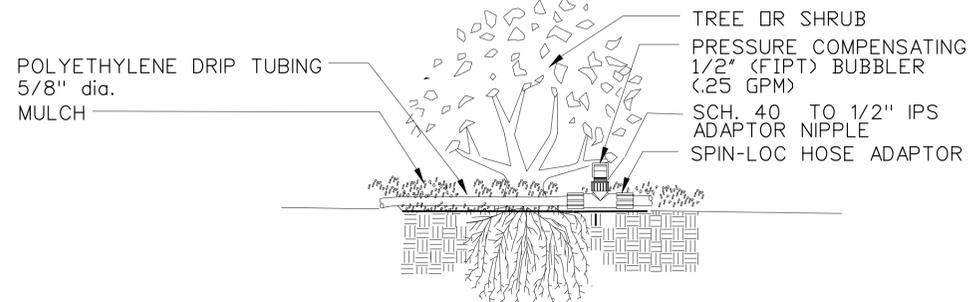
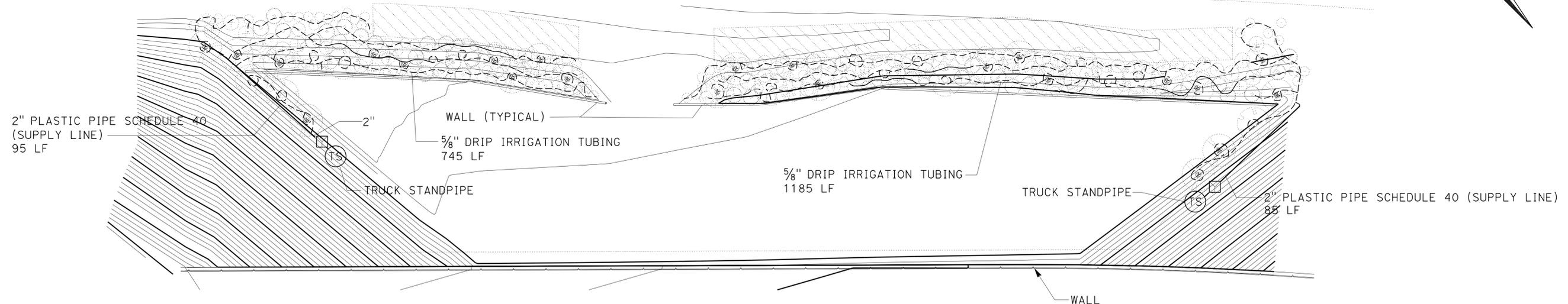
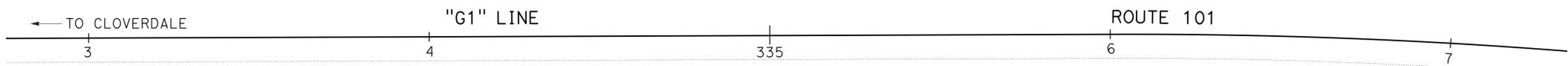
**NOTE:**

ALL PLANTS TO RECEIVE .25 GPM TRICKLE FLOOD BUBBLER



**IRRIGATION QUANTITIES**

ITEM	TYPE	UNIT	TOTAL
2" WYE STRAINER ASSEMBLY		EA	2
TRUCK STANDPIPE		EA	2
5/8" DRIP IRRIGATION TUBING		LF	1930
RISER SPRINKLER ASSEMBLY	RISER TYPE V	EA	660
2" PLASTIC PIPE SCHEDULE 40 (SUPPLY LINE)		LF	180



**1** REPLACED PER ADDENDUM No. 1 DATED JULY 22, 2016

**IRRIGATION PLAN AND QUANTITIES**

SCALE: 1"=20'

**IP-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 LANDSCAPE  
 FUNCTIONAL SENIOR  
 TIM BOESE  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 LAURA LAZZAROTTO  
 PATRICK SULLIVAN  
 REVISED BY  
 DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	3.8, 5.3	46A	99

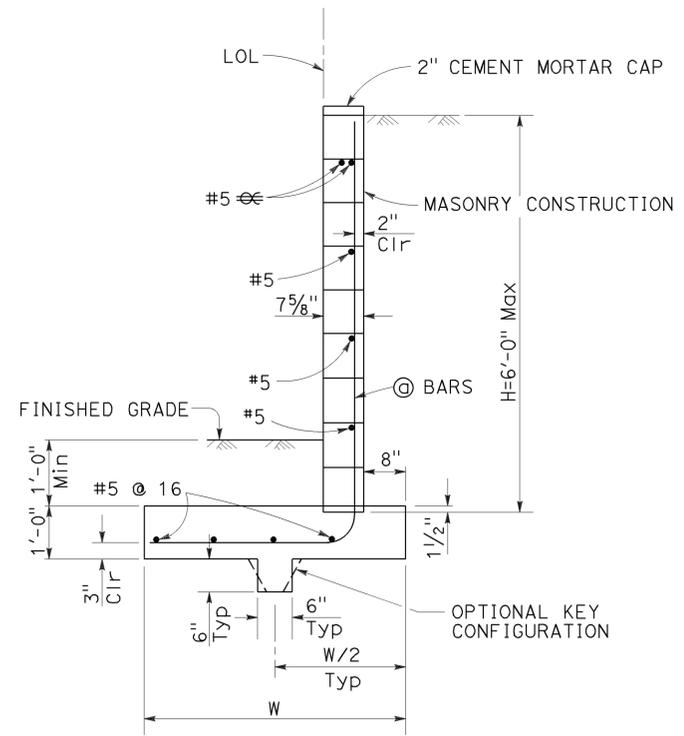
Gary Wang  
 REGISTERED CIVIL ENGINEER  
 April 20, 2012  
 PLANS APPROVAL DATE  
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**SYMBOLS:**

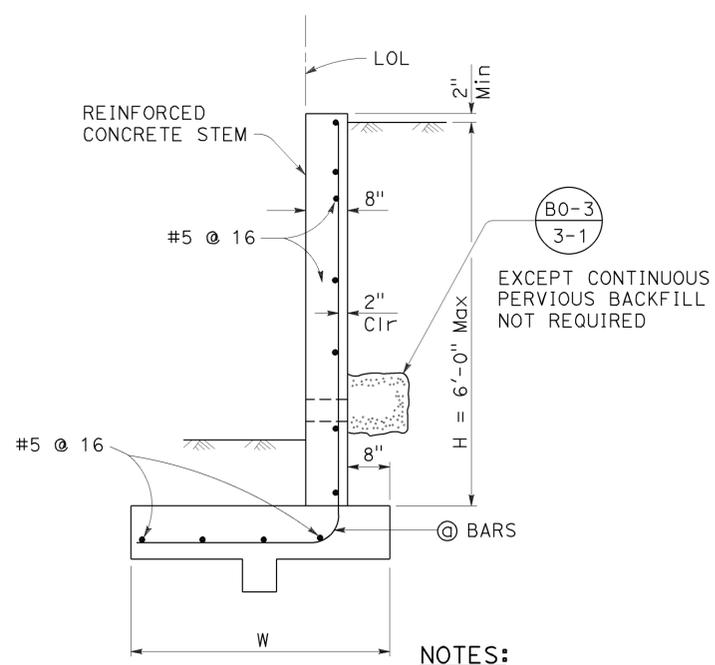
Ser - service limit state I  
 Str - strength limit state I  
 Ext - extreme event limit state I  
 B' - effective footing width (ft)  
 q<sub>o</sub> - net bearing stress (ksf), OG assumed to be FG at toe  
 q<sub>o</sub> - gross uniform bearing stress (ksf)

**DESIGN NOTES:**

TO ACCOMPANY PLANS DATED 3-28-16  
 DESIGN: AASHTO LRFD Bridge Design Specifications, 4th Edition with California Amendments  
 Building Code Requirements for Masonry Structures (TMS 402-08/ACI 530-08/ASCE 5-08)  
 LS: 240 psf surcharge on level ground surface as limited by Guard Railing location  
 SEISMIC:  $k_h = 0.2$   
 $k_v = 0.0$   
 SOIL:  $\phi = 34^\circ$   
 $\gamma = 120$  pcf  
 REINFORCED CONCRETE:  $f'_c = 3,600$  psi  
 $f_y = 60,000$  psi  
 REINFORCED MASONRY:  $f_m' = 1,500$  psi  
 $f_y = 60,000$  psi  
 LOAD COMBINATIONS AND LIMIT STATES:  
 Service I  $Q = 1.00DC + 1.00EV + 1.00EH + 1.00LS$   
 Strength I  $Q = \alpha DC + \beta EV + \eta EH + 1.75LS$   
 Extreme I  $Q = 1.00DC + 1.00EV + 1.00EH + 1.00EQD + 1.00EQE$   
 Where:  
 Q: Force Effects  
 $\alpha$ : 1.25 or 0.90, Whichever Controls Design  
 $\beta$ : 1.35 or 1.00, Whichever Controls Design  
 $\eta$ : 1.50 or 0.90, Whichever Controls Design  
 DC: Dead Load of Structure Components  
 EH: Horizontal Earth Fill Pressure  
 EV: Vertical Earth Pressure from Earth Fill Weight  
 LS: Live Load Surcharge  
 EQE: Seismic Earth Pressure  
 EQD: Soil and Structural and Nonstructural Components Inertia

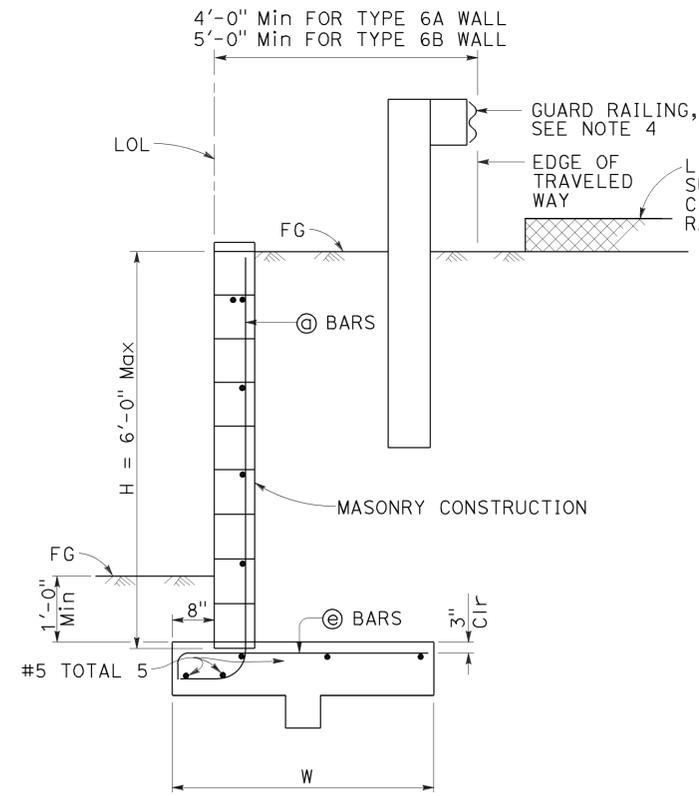


**TYPE 6A WALL**



**NOTES:**

- For details not shown at "6B", see "6A", similarly, for details not shown at "6A", see "6B".
- Design loading for both Type "6A" and "6B" is as shown at "6B".
- Type 6 retaining wall shall be limited to use for walls of Design H of 6'-0" or less.
- Where traffic is adjacent to the top of wall, guard railing should be set back from the top front face of wall at least 4'-0" or 5'-0", dependent on wall type.
- For reinforced concrete wall stem joint details, See (B0-3/3-3) and (B0-3/3-4).
- No splices are allowed on @ bars.
- See "Retaining Wall Type 6 Details" sheet for Elevation View and Footing Step Details.



**TYPE 6B WALL**

**TYPE 6A WALL - TABLE OF REINFORCING STEEL, DIMENSIONS AND DATA**

DESIGN H	3'-4"	4'-0"	4'-8"	5'-4"	6'-0"
W	3'-0"	3'-3"	3'-8"	4'-2"	4'-8"
@ BARS	#5 @ 16	#5 @ 16	#5 @ 16	#5 @ 16	#5 @ 16
Ser: B', q <sub>o</sub>	2.8, 0.2	3.0, 0.3	3.4, 0.3	3.8, 0.3	4.3, 0.3
Str: B', q <sub>o</sub>	2.7, 0.6	2.9, 0.7	3.2, 0.7	3.6, 0.7	3.3, 0.6
Ext: B', q <sub>o</sub>	1.7, 0.8	1.6, 0.9	1.7, 1.0	2.0, 1.0	2.1, 1.0

**TYPE 6B WALL - TABLE OF REINFORCING STEEL, DIMENSIONS AND DATA**

DESIGN H	3'-4"	4'-0"	4'-8"	5'-4"	6'-0"
W	3'-0"	3'-9"	4'-0"	4'-6"	4'-9"
@ BARS	#5 @ 16	#5 @ 16	#5 @ 16	#5 @ 16	#5 @ 16
@ BARS	#5 @ 16	#5 @ 16	#5 @ 16	#5 @ 16	#5 @ 16
Ser: B', q <sub>o</sub>	2.6, 0.4	3.4, 0.4	2.7, 0.8	3.1, 0.8	3.2, 1.0
Str: B', q <sub>o</sub>	2.6, 0.8	3.3, 0.9	1.7, 1.6	2.1, 1.6	2.0, 1.8
Ext: B', q <sub>o</sub>	1.5, 1.1	2.0, 1.1	2.0, 1.4	2.2, 1.5	2.1, 1.9

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**RETAINING WALL TYPE 6 (CASE 1)**  
 NO SCALE

RSP B3-7A DATED APRIL 20, 2012 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

**1 ADDED PER ADDENDUM No. 1 DATED JULY 22, 2016**

**REVISED STANDARD PLAN RSP B3-7A**

2010 REVISED STANDARD PLAN RSP B3-7A