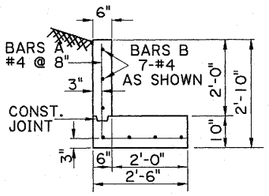
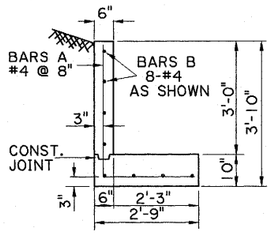
15-APR-2010 10:40

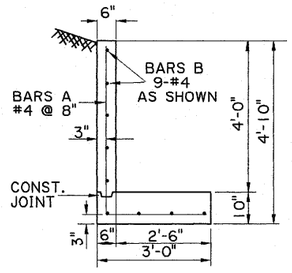
NOTE: MINIMUM CONCRETE COVER SHALL BE 3" FOR THE RETAINING SIDE OF THE WALL AND FOR THE FOOTING, AND 2" FOR THE OPEN SIDE OF THE WALL.



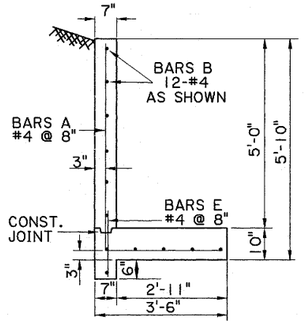
TYPE L2



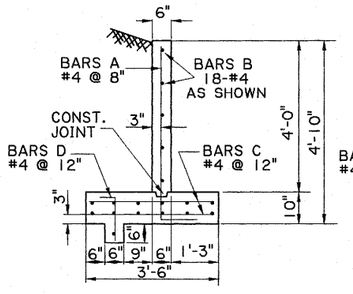
TYPE L3



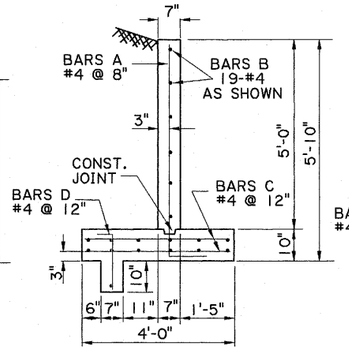
TYPE L4



TYPE L5



TYPE T4



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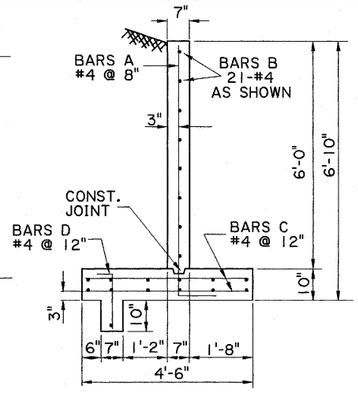
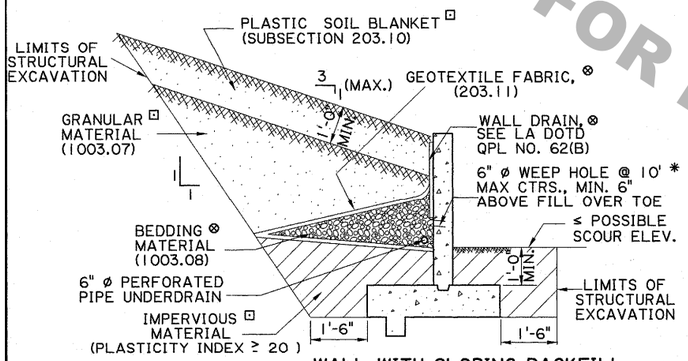
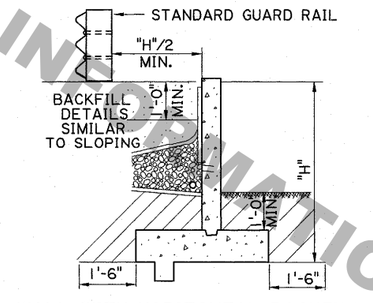


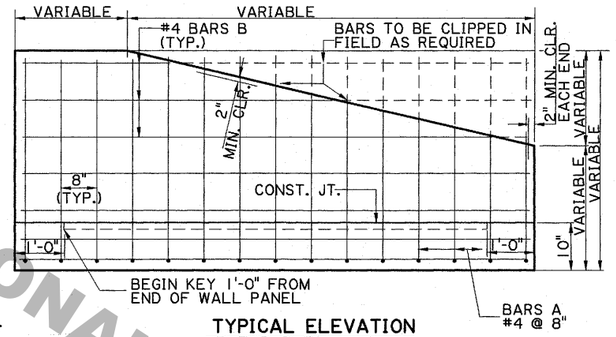
TYPE T6



WALL WITH SLOPING BACKFILL

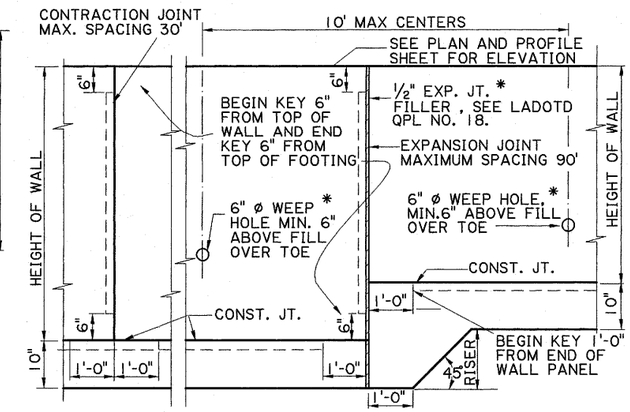


WALL WITH HORIZONTAL BACKFILL



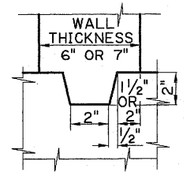
TYPICAL ELEVATION

(SHOWING REINFORCEMENT DETAILS)
SHEAR KEY NOT SHOWN FOR CLARITY

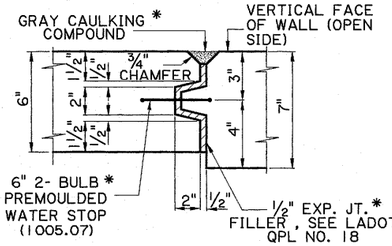


PART ELEVATION OF RETAINING WALL

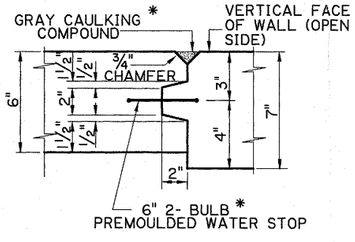
(SHOWING RISER UNDER FOOTING)



WALL TO FOOTING KEY DETAIL



EXPANSION JOINT DETAIL



CONTRACTION JOINT DETAIL

REBAR DIMENSIONS

WALL TYPE	SIZE	BAR A a	BAR A b	BAR A LENGTH	BAR C LENGTH	BAR D LENGTH	BAR E LENGTH
L2	#4	2'-5"	2'-1"	4'-6"	—	—	—
L3	#4	3'-5"	2'-4"	5'-9"	—	—	—
L4	#4	4'-5"	2'-7"	7'-0"	—	—	—
L5	#4	5'-5"	3'-1"	8'-6"	—	—	1'-6"
T4	#4	4'-5"	0'-10"	5'-3"	3'-2"	1'-3"	—
T5	#4	5'-5"	1'-1"	6'-6"	3'-8"	1'-7"	—
T6	#4	6'-5"	1'-4"	7'-9"	4'-2"	1'-7"	—

NOTES:
ALL BARS ARE #4
BARS B,C,& E ARE STRAIGHT
BAR B LENGTH = WALL LENGTH BETWEEN JOINTS MINUS 4"

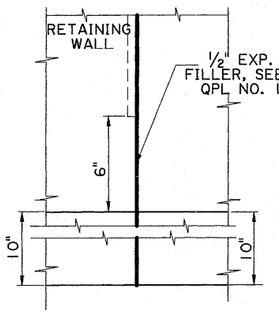
MATERIAL QUANTITIES

(PER LINEAR FOOT OF WALL)

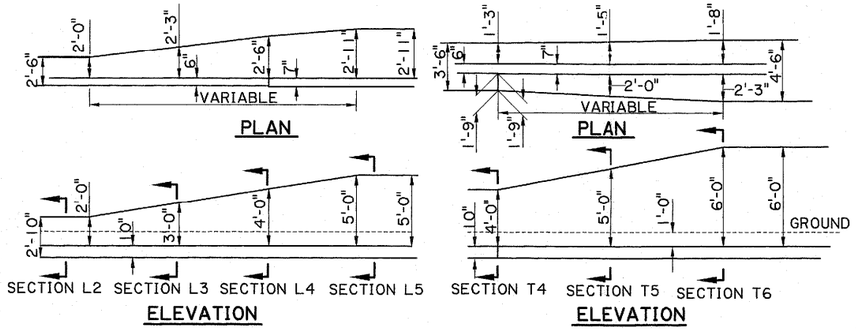
WALL TYPE	L2	L3	L4	L5	T4	T5	T6
CLASS "A" CONCRETE (CU. YDS.)	0.077	0.140	0.167	0.211	0.191	0.249	0.287
GRADE 60 STEEL (LBS.)	9.2	11.0	13.0	18.0	22.4	25.2	28.4

6" ø PERFORATED PIPE UNDERDRAIN TO BE PAID PER LIN. FT.

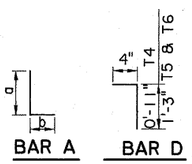
NOTES:
1. CONSTRUCTION SPECIFICATIONS : LATEST APPROVED LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, SUPPLEMENTAL SPECIFICATIONS, AND SPECIAL PROVISIONS.
2. DESIGN SPECIFICATIONS: AASHTO, LRFD FOURTH EDITION 2007 (WITH 2008 AND 2009 INTERIM SPECIFICATIONS).
3. ALL CONCRETE SHALL BE CLASS "A", CHAMFER ALL EXPOSED CORNERS ¾".
4. DEFORMED REINFORCING BARS SHALL BE GRADE 60. DIMENSIONS RELATING TO REINFORCING STEEL SPACING ARE TO BAR CENTERS.
5. MAXIMUM ALLOWABLE SOIL PRESSURE: 1000 PSF.
6. RETAINING WALLS SHALL BE INVESTIGATED FOR EXCESSIVE VERTICAL AND LATERAL DISPLACEMENT. TOLERABLE VERTICAL AND LATERAL DEFORMATION CRITERIA FOR RETAINING WALL SHALL BE DEVELOPED ON THE FUNCTION AND TYPE OF WALL, ANTICIPATED SERVICE LIFE, AND CONSEQUENCES OF INACCEPTABLE MOVEMENTS TO THE WALL AND ANY POTENTIAL AFFECTED NEARBY STRUCTURE.
7. MAXIMUM SPACING OF EXPANSION JOINT IS 90 FT..
8. MAXIMUM SPACING OF CONTRACTION JOINT IS 30 FT..
9. WALL DRAIN AND PERFORATED PIPE UNDERDRAIN SHALL BE IN ACCORDANCE WITH SECTION 703 OF THE LOUISIANA STANDARD SPECIFICATIONS.

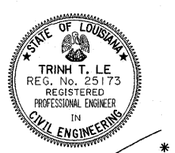


FOOTING EXPANSION JOINT DETAIL



SLOPING RETAINING WALL





* TO BE INCLUDED WITH COST OF CLASS "A" CONCRETE.
⊗ TO BE INCLUDED WITH COST OF PERFORATED PIPE UNDERDRAIN.
⊡ BACKFILL MATERIAL TO BE INCIDENTAL TO STRUCTURAL EXCAVATION IN CUT SECTION, AND TO BE PAID AS EMBANKMENT IN FILL SECTION.

FOR INFORMATIONAL PURPOSES ONLY

SHEET NUMBER

PARISH | FEDERAL PROJECT | STATE PROJECT

DESIGNED T. LE | CHECKED J. PELTIER | DETAILED G. GRASS | CHECKED J. PELTIER | DATE DEC.2009 | SHEET

REVISION DESCRIPTION | BY | DATE: 3-30-10

DATE | APPROVED BY CHIEF ENGINEER:

STATE OF LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT DOTD

BRIDGE AND STRUCTURAL DESIGN

MISC. RETAINING WALL DETAILS
T & L TYPES
2'-0" THROUGH 6'-0" HEIGHTS

RW-01

IP_PWP:dms31585\RW-01 .dgn