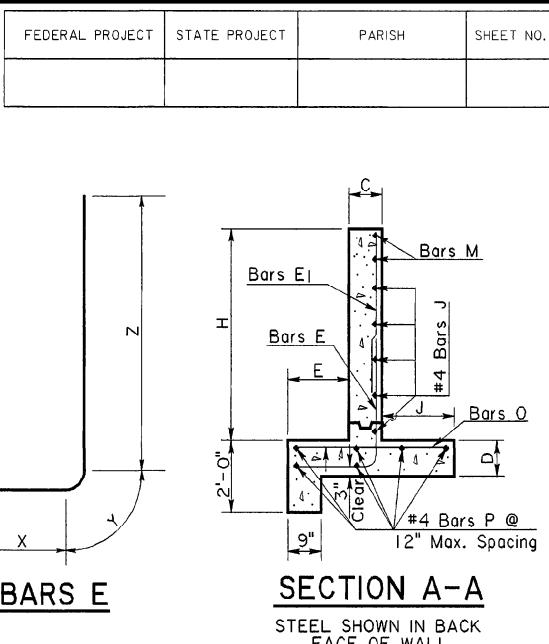
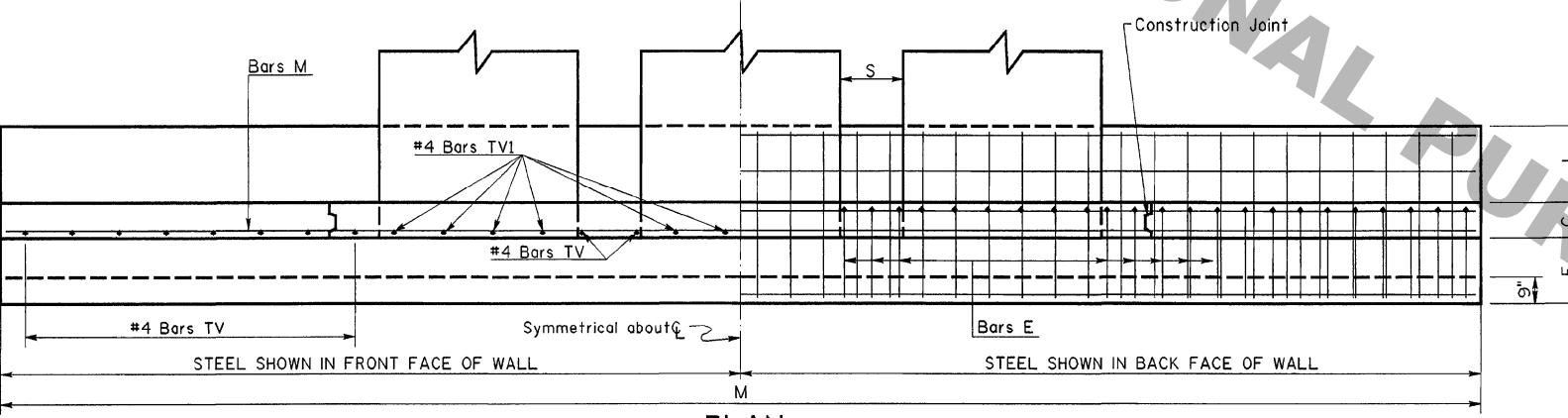


OPENING				H	E	C	J	D	L	M	S	BARS E						BARS E _I			#4 BARS J			BARS O			#4 BARS P			#4BARS H			#4BARS V			BARS M			#4 BARS TH			#4 BARS TH1			#4 BARS TV			#4 BARS TV1	CONC.	STEEL				
Eq. Dia. in.	Span in.	Rise in.	Area sq.ft.	Lgth. ft.in.	Size No.	Lgth. ft.in.	Spc. in.	X ft.in.	Y ft.in.	Z ft.in.	Size No.	Lgth. ft.in.	Spc. in.	No.	Lgth. ft.in.	Spc. in.	No.	Lgth. ft.in.	Spc. in.	No.	Lgth. ft.in.	Spc. in.	No.	Lgth. ft.in.	Spc. in.	No.	Lgth. ft.in.	Spc. in.	No.	Lgth. ft.in.	Spc. in.	No.	Lgth. ft.in.	Spc. in.	No.	Lgth. ft.in.	Spc. in.	CU. YDS.	LBS.															
60	71	47	1	18.1	4-11	0-	9	0-	6	4-	2	0-10	9-10	25-7	2-	04	34	7	2-	04	0-	0	0-	0	0-	0	26	5-	1	12,0	8	25-	3	0-	0	0-	0	0-	0	0-	0	0-	0	0-	0	7.10	450							
60	71	47	2	36.2	4-11	0-	9	0-	6	4-	2	0-10	9-10	33-6	2-	04	38	6-	2	7,0	0-10	2,5	2	24	0-	0	0-	0	0-	0	34	5-	1	12,0	8	33-	3	0-	0	0-	0	0-	0	0-	0	0-	0	0-	0	9.06	553			
60	71	47	3	54.3	4-11	0-	9	0-	6	4-	2	0-10	9-10	41-5	2-	04	42	6-	2	7,0	0-10	2,5	2	24	0-	0	0-	0	0-	0	42	5-	1	12,0	8	41-	1	0-	0	0-	0	0-	0	0-	0	0-	0	0-	0	11.03	656			
60	71	47	4	72.4	4-11	0-	9	0-	6	4-	2	0-10	9-10	49-4	2-	04	50	6-	2	7,0	0-10	2,5	2	24	0-	0	0-	0	0-	0	50	5-	1	12,0	8	49-	0	0-	0	0-	0	0-	0	0-	0	0-	0	0-	0	13.00	760			
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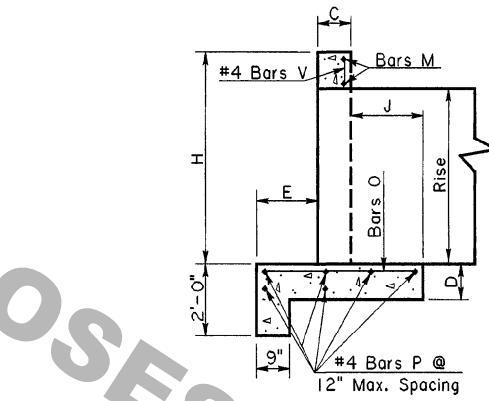


SECTION A-A

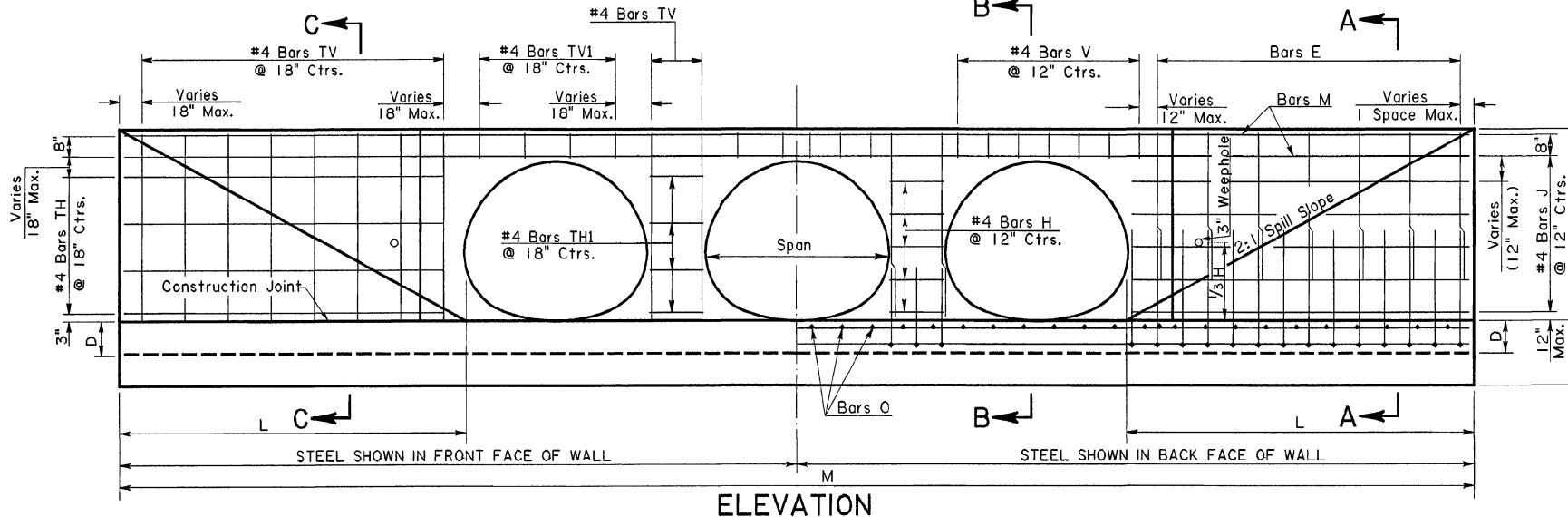
STEEL SHOWN IN BACK
FACE OF WALL



PLAN



SECTION B-B



ELEVATION

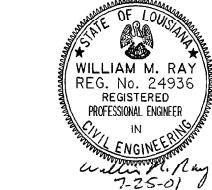
GENERAL NOTES

DESIGN: **Method-** Headwalls are designed as retaining walls according to current AASHTO working stress procedures. Walls are designed for a lateral earth pressure of 40 psf with 2.0 feet of surcharge. **Overturning-** A minimum safety factor of 2.0 is provided against overturning. The resultant of loads is within the middle third of the footing. **Sliding -** A minimum safety factor of 5 is provided against sliding. The coefficient of friction between the footing and soil is 0.5. **Foundation -** The design soil bearing pressure is 1800 psf. When strength of the soil at the site is less than 1800 psf, bedding material shall be added under the footing as directed.

MATERIALS: Concrete- All concrete shall be class A. All exposed edges shall be $\frac{3}{4}$ inch chamfered. Reinforcing Steel- Reinforcement shall be Grade 60. Bar spacing dimensions are to bar centers. Steel required for lap splices not detailed shall not be measured for payment. Reinforcing steel shall have 2" cover unless otherwise specified. Steel and concrete quantities shown in table are for one headwall.

'1-6" square of geotextile fabric (see Section 1019 of the LA DOTD Standard Specifications) shall be placed in contact with concrete behind each weephole in addition to approximately 2 cu.ft. of concrete sand (see Section 1003.02 of the LA DOTD Standard Specifications).

CONSTRUCTION JOINTS: All construction joints shown are optional. For details of keyed construction joints see Standard Plan CM-49. For construction joints without key, the joint surface shall be roughened. Hardened surface shall be cleaned. Immediately before new concrete is placed, joint surface shall be saturated with water.



SECTION 2-2

SECTION C-C

