

ARS			(C2 BARS			E1 B/ T 12"	ARS MAX.		E2 B/ T 12"	ARS MAX.
GTH	WEIGHT PER FT.	SIZE	SPA.	LENGTH	WEIGHT PER FT.	NO.	SIZE	WEIGHT PER FT.	NO.	SIZE	WEIGHT PER FT.
3"	3.0	#4	12"	3'-8"	4.9	80	#4	53.4	24	#4	16.0
3"	3.0	#4	12"	4'-8"	6.2	80	#4	53.4	32	#4	21.4
3"	3.0	#4	12"	3'-8"	4.9	92	#4	61.5	24	#4	16.0
3"	3.0	#4	12"	4'-8"	6.2	92	#4	61.5	32	#4	21.4
3"	3.0	#4	12"	5'-8"	7.6	92	#4	61.5	40	#4	26.7
					B	ASI	s c)F PA	YN	IFN	ПТ

BASIS OF PATIMENT								
CODE	DESCRIPTION	UNIT						
404-00	STRUCTURAL CONCRETE	C.Y.						
411-00	REINFORCING STEEL	LBS.						
982	PIPE RAILING	L.F.						

CLASS AA CONCRETE f'c = 4 K.S.I. REINFORCING STEEL fy = 60 K.S.I.

LOADING

HL-93 LOADING OR OKLAHOMA DEPARTMENT OF TRANSPORTATION OVERLOAD TRUCK

HS-20 TRUCK

TYPE 3-3 (SPECIAL HAULING VEHICLE)

EV3 (TANDEM REAR AXLE EMERGENCY VEHICLE)

SHV NRL (SPECIAL HAULING VEHICLE NOTIONAL RATING LOAD) ALL LOAD VEHICLES LISTED, EXCEPT HL-93 AND OKLAHOMA DEPARTMENT OF TRANSPORTATION OVERLOAD TRUCK, WERE

ANALYZED USING LOAD FACTOR DESIGN (LFD).

DESIGN

AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 9TH EDITION AASHTO MANUAL FOR BRIDGE EVALUATION, 3RD EDITION, 2018, WITH 2019 INTERIM REVISIONS

R.C.B. GENERAL NOTES

COMPLY WITH THE REQUIREMENTS OF THE CURRENT THE CITY OF OKLAHOMA CITY STANDARD SPECIFICATIONS.

PROVIDE A 1 1/2" CHAMFER ON ALL EXPOSED CONCRETE EDGES. USE SIZED LUMBER FOR ALL CHAMFER STRIPS.

PROVIDE 2" MINIMUM CLEAR COVER FOR ALL REINFORCING STEEL UNLESS NOTED OTHERWISE

PLACE TRANSVERSE CONSTRUCTION JOINTS IN ALL CULVERTS 100 FT. OR MORE IN LENGTH AT A MAXIMUM SPACING OF 60 FT. SUBMIT LOCATIONS TO THE CITY ENGINEER FOR APPROVAL. SEE TRANSVERSE CONSTRUCTION JOINT DETAIL ON THIS SHEET.

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PIPE RAILING REQUIRED ON TOP OF HEADWALL AND WINGWALLS. SEE STD. RCB-015 PipeRailing.

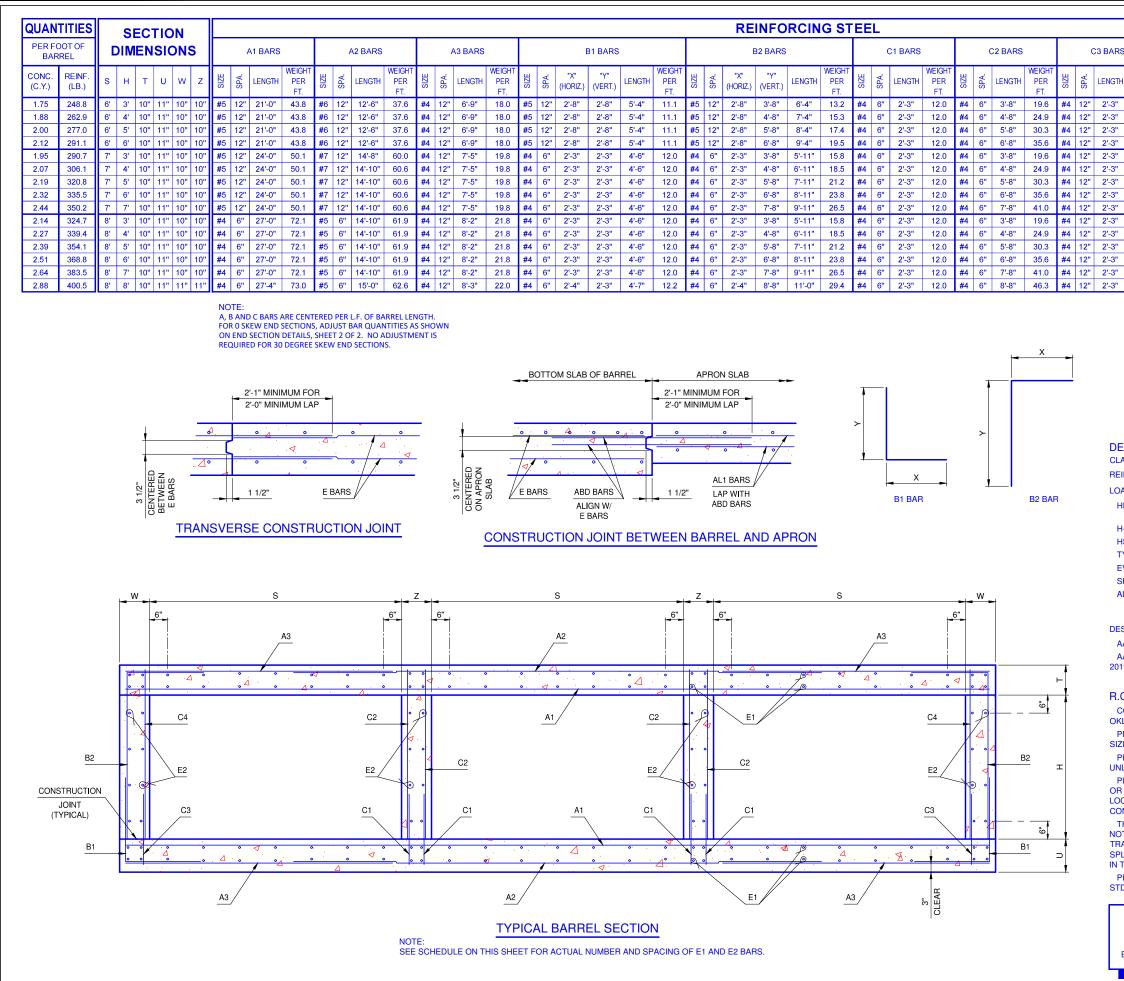
PLACE WD AND ABD BARS FOR WINGWALLS AND APRON TIED TO BABBEL BEINEOBCING BEFORE PLACING BARREL CONCRETE

∑ u н н ion \mathcal{O} epa1 isio Divi D D Ξ of 0 bn 0 U City \geq e e В q ω <mark>Υ</mark> ω p Ц OLE 6/22/202 148 L C R S DETAILS CELL BARREL D -- TRIPLE 0' FILL 10 'ERTS - I SPANS 2' TO 10 3. CULVE AND 5' 3 ш. 4 C С

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RS		C4 BARS					E1 BARS AT 12" MAX.			E2 BARS AT 12" MAX.		
GTH	WEIGHT PER FT.	SIZE	SPA.	LENGTH	Weight Per Ft.	NO.	SIZE	WEIGHT PER FT.	NO.	SIZE	WEIGHT PER FT.	
3"	3.0	#4	12"	3'-8"	4.9	104	#4	69.5	24	#4	16.0	
3"	3.0	#4	12"	4'-8"	6.2	104	#4	69.5	32	#4	21.4	
3"	3.0	#4	12"	5'-8"	7.6	104	#4	69.5	40	#4	26.7	
3"	3.0	#4	12"	6'-8"	8.9	104	#4	69.5	48	#4	32.1	
3"	3.0	#4	12"	3'-8"	4.9	116	#4	77.5	24	#4	16.0	
3"	3.0	#4	12"	4'-8"	6.2	116	#4	77.5	32	#4	21.4	
3"	3.0	#4	12"	5'-8"	7.6	116	#4	77.5	40	#4	26.7	
3"	3.0	#4	12"	6'-8"	8.9	116	#4	77.5	48	#4	32.1	
3"	3.0	#4	12"	7'-8"	10.2	116	#4	77.5	56	#4	37.4	
3"	3.0	#4	12"	3'-8"	4.9	128	#4	85.5	24	#4	16.0	
3"	3.0	#4	12"	4'-8"	6.2	128	#4	85.5	32	#4	21.4	
3"	3.0	#4	12"	5'-8"	7.6	128	#4	85.5	40	#4	26.7	
3"	3.0	#4	12"	6'-8"	8.9	128	#4	85.5	48	#4	32.1	
3"	3.0	#4	12"	7'-8"	10.2	128	#4	85.5	56	#4	37.4	
3"	3.0	#4	12"	8'-8"	11.6	128	#4	85.5	64	#4	42.8	

BASIS OF PAYMENT							
CODE	DESCRIPTION	UNIT					
404-00	STRUCTURAL CONCRETE	C.Y.					
411-00	REINFORCING STEEL	LBS.					
982	PIPE RAILING	L.F.					

CLASS AA CONCRETE f'c = 4 K.S.I. REINFORCING STEEL fy = 60 K.S.I.

LOADING

HL-93 LOADING OR OKLAHOMA DEPARTMENT OF TRANSPORTATION OVERLOAD TRUCK

H-20 TRUCK HS-20 TRUCK

TYPE 3-3 (SPECIAL HAULING VEHICLE)

EV3 (TANDEM REAR AXLE EMERGENCY VEHICLE)

SHV NRL (SPECIAL HAULING VEHICLE NOTIONAL RATING LOAD) ALL LOAD VEHICLES LISTED, EXCEPT HL-93 AND OKLAHOMA DEPARTMENT OF TRANSPORTATION OVERLOAD TRUCK, WERE

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DESIGN

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R.C.B. GENERAL NOTES

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PROVIDE 2" MINIMUM CLEAR COVER FOR ALL REINFORCING STEEL UNLESS NOTED OTHERWISE

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PLACE WD AND ABD BARS FOR WINGWALLS AND APRON TIED TO BABBEL BEINFORCING BEFORE PLACING BARREL CONCRETE

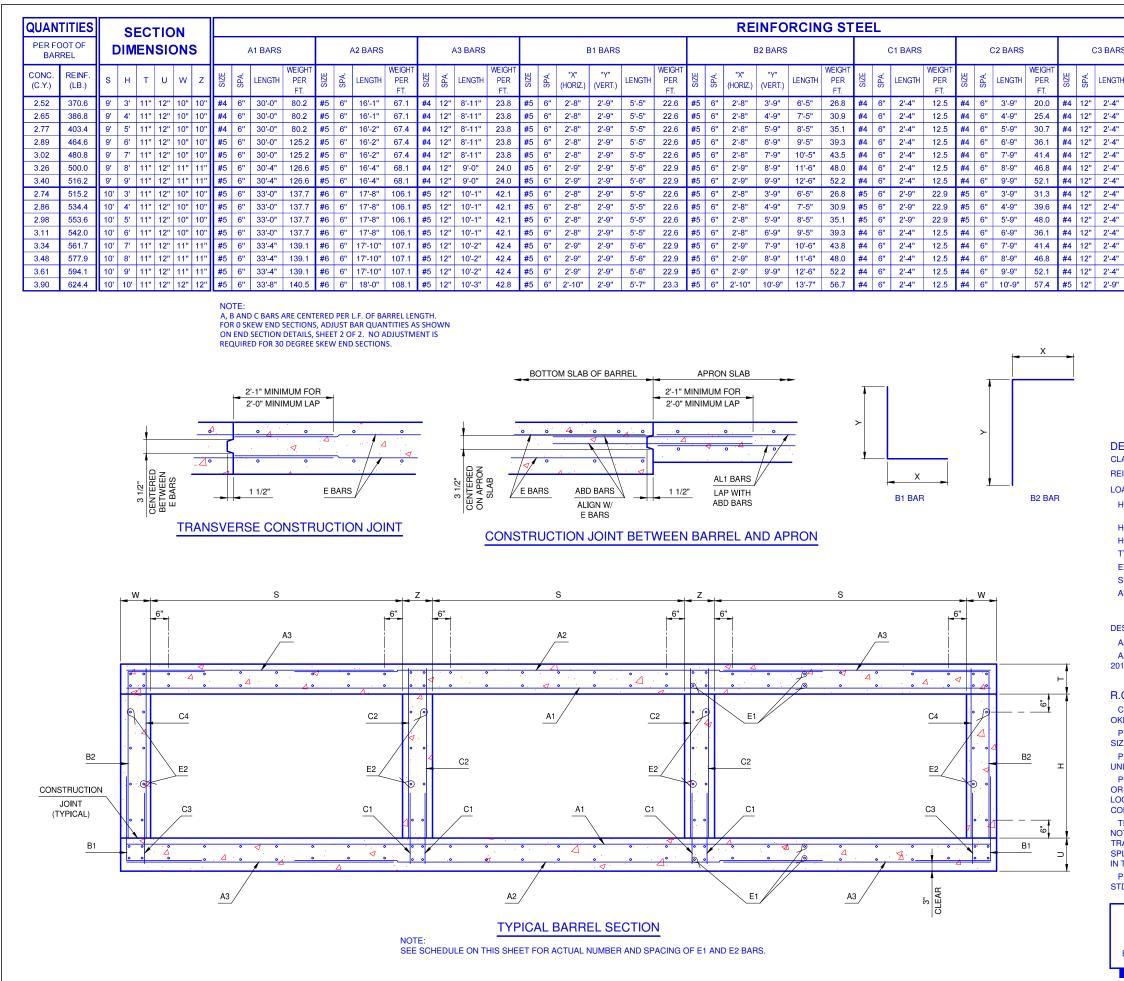
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RS		C4 BARS					E1 BARS AT 12" MAX.			E2 BARS AT 12" MAX.		
GTH	WEIGHT PER FT.	SIZE	SPA.	LENGTH	WEIGHT PER FT.	NO.	SIZE	WEIGHT PER FT.	NO.	SIZE	WEIGHT PER FT.	
4"	3.1	#4	12"	3'-9"	5.0	140	#4	93.5	24	#4	16.0	
4"	3.1	#4	12"	4'-9"	6.3	140	#4	93.5	32	#4	21.4	
4"	3.1	#4	12"	5'-9"	7.7	140	#4	93.5	40	#4	26.7	
4"	3.1	#4	12"	6'-9"	9.0	140	#4	93.5	48	#4	32.1	
4"	3.1	#4	12"	7'-9"	10.4	140	#4	93.5	56	#4	37.4	
4"	3.1	#4	12"	8'-9"	11.7	140	#4	93.5	64	#4	42.8	
4"	3.1	#4	12"	9'-9"	13.0	140	#4	93.5	72	#4	48.1	
4"	3.1	#4	12"	3'-9"	5.0	152	#4	101.5	24	#4	16.0	
4"	3.1	#4	12"	4'-9"	6.3	152	#4	101.5	32	#4	21.4	
4"	3.1	#4	12"	5'-9"	7.7	152	#4	101.5	40	#4	26.7	
4"	3.1	#4	12"	6'-9"	9.0	152	#4	101.5	48	#4	32.1	
4"	3.1	#4	12"	7'-9"	10.4	152	#4	101.5	56	#4	37.4	
4"	3.1	#4	12"	8'-9"	11.7	152	#4	101.5	64	#4	42.8	
4"	3.1	#4	12"	9'-9"	13.0	152	#4	101.5	72	#4	48.1	
9"	5.7	#5	12"	10'-9"	22.4	152	#4	101.5	80	#4	53.4	

BASIS OF PAYMENT							
CODE	DESCRIPTION	UNIT					
404-00	STRUCTURAL CONCRETE	C.Y.					
411-00	REINFORCING STEEL	LBS.					
982	PIPE RAILING	L.F.					

CLASS AA CONCRETE f'c = 4 K.S.I. REINFORCING STEEL fy = 60 K.S.I.

LOADING

HL-93 LOADING OR OKLAHOMA DEPARTMENT OF TRANSPORTATION OVERLOAD TRUCK H-20 TRUCK

HS-20 TRUCK

TYPE 3-3 (SPECIAL HAULING VEHICLE)

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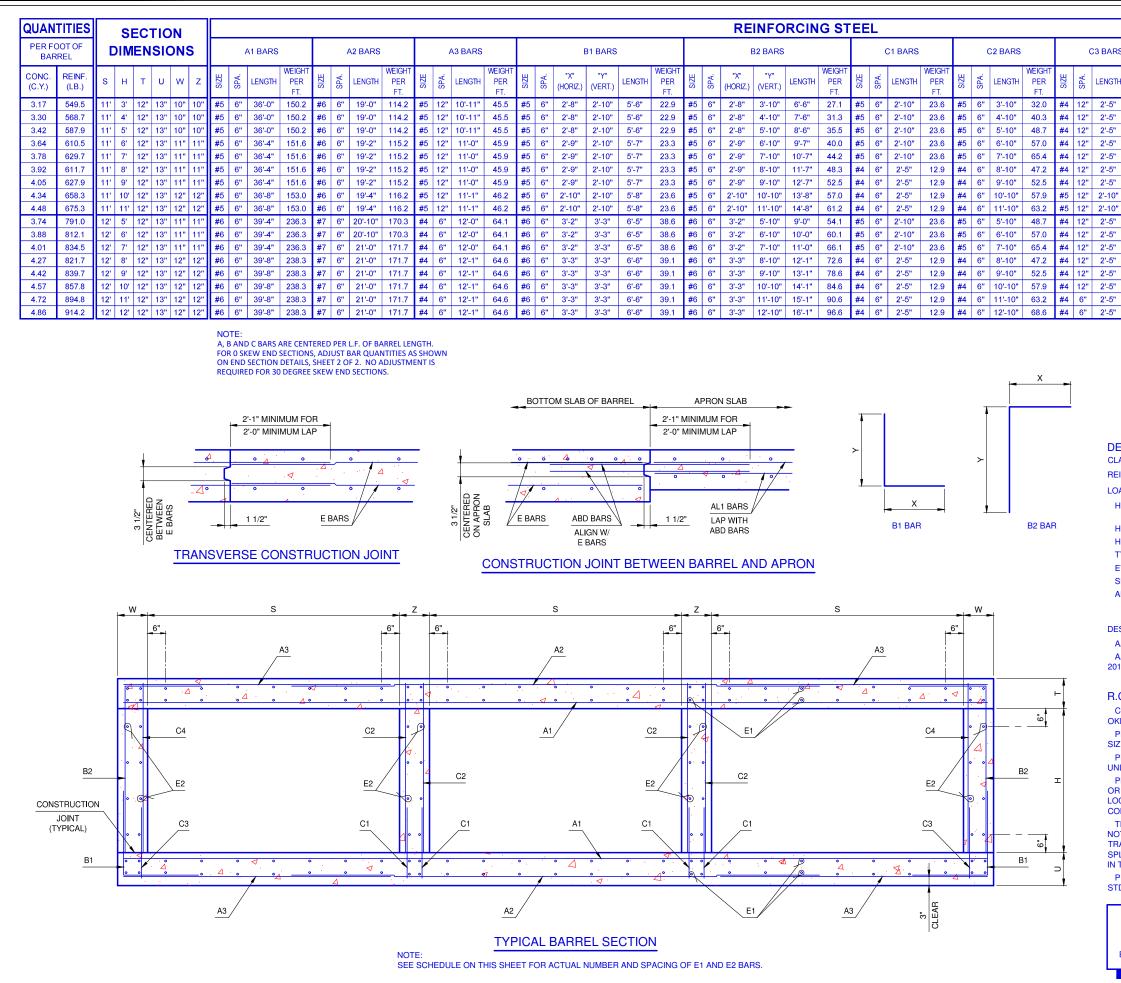
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ARS		C4 BARS					E1 BARS AT 12" MAX.			E2 BARS AT 12" MAX.		
GTH	WEIGHT PER FT.	SIZE	SPA.	LENGTH	Weight Per Ft.	NO.	SIZE	Weight Per Ft.	NO.	SIZE	Weight Per Ft.	
5"	3.2	#4	12"	3'-10"	5.1	164	#4	109.6	24	#4	16.0	
5"	3.2	#4	12"	4'-10"	6.5	164	#4	109.6	32	#4	21.4	
5"	3.2	#4	12"	5'-10"	7.8	164	#4	109.6	40	#4	26.7	
5"	3.2	#4	12"	6'-10"	9.1	164	#4	109.6	48	#4	32.1	
5"	3.2	#4	12"	7'-10"	10.5	164	#4	109.6	56	#4	37.4	
5"	3.2	#4	12"	8'-10"	11.8	164	#4	109.6	64	#4	42.8	
5"	3.2	#4	12"	9'-10"	13.1	164	#4	109.6	72	#4	48.1	
0"	5.9	#5	12"	10'-10"	22.6	164	#4	109.6	80	#4	53.4	
0"	5.9	#5	12"	11'-10"	24.7	164	#4	109.6	88	#4	58.8	
5"	3.2	#4	12"	5'-10"	7.8	176	#4	117.6	40	#4	26.7	
5"	3.2	#4	12"	6'-10"	9.1	176	#4	117.6	48	#4	32.1	
5"	3.2	#4	12"	7'-10"	10.5	176	#4	117.6	56	#4	37.4	
5"	3.2	#4	12"	8'-10"	11.8	176	#4	117.6	64	#4	42.8	
5"	3.2	#4	12"	9'-10"	13.1	176	#4	117.6	72	#4	48.1	
5"	3.2	#4	12"	10'-10"	14.5	176	#4	117.6	80	#4	53.4	
5"	6.5	#4	6"	11'-10"	31.6	176	#4	117.6	88	#4	58.8	
5"	6.5	#4	6"	12'-10"	34.3	176	#4	117.6	96	#4	64.1	

BASIS OF PAYMENT							
CODE	DESCRIPTION	UNIT					
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411-00	REINFORCING STEEL	LBS.					
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LOADING

HL-93 LOADING OR OKLAHOMA DEPARTMENT OF TRANSPORTATION OVERLOAD TRUCK

H-20 TRUCK HS-20 TRUCK

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EV3 (TANDEM REAR AXLE EMERGENCY VEHICLE)

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PLACE WD AND ABD BARS FOR WINGWALLS AND APRON TIED TO BABBEL BEINFORCING BEFORE PLACING BARREL CONCRETE

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