

^{1/8/2020} BR-0120_SMU_E04_730123.dgn okhalafalla

1'-3" 1 3 3 9 1 3 3 3 3 1 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 <th>HK. BAR NO. SIZE TYPE LENGTH WEIGHT 1'-3" 7'-2" 8 9 1 35'-0" 952 3 9 44 STR 17'-7" 188 33 9 44 STR 2'-5" 41/2" 1 18 *6 STR 1'-6" 41 HK. 4 2'-5" 41/2" </th> <th></th> <th>YPES</th> <th colspan="6">BILL OF MATERIAL</th>	HK. BAR NO. SIZE TYPE LENGTH WEIGHT 1'-3" 7'-2" 8 9 1 35'-0" 952 3 9 44 STR 17'-7" 188 33 9 44 STR 2'-5" 41/2" 1 18 *6 STR 1'-6" 41 HK. 4 2'-5" 41/2"		YPES	BILL OF MATERIAL						
1'-3" 2 1'-3" 2 1'-3" 2 1'-3" 2 1'-3" 2 1'-3" 16 1'-3" 16 1'-2" 16 1'-1 15'-2" 1'-2" 16 1'-1 1'-6" 1'-2" 16 1'-1 1'-6" 1'-1 1'-6" 1'-2" 15 1'-1 15'-7" 1'-1 15'-7" 1'-1 15'-6" 1'-1 18'-6 1'-1 18'-6 1'-1'-7" 18 1'-1'-1'' 18 1'-1'' 18 1'-1'' 18 1'-1'' 18 1'-1'' 18 1'-1''' 18 1'-1''' 18 1'-1''' 18 1''''' 18 1'''''' 18 1'''''' 18 1'''''' 18 1'''''''' 18 <t< th=""><th>1'-3" 2 1'-3" 2 1'-3" 1 1'-3" 1 1'-3" 1 1'-3" 1 1'-3" 1 1'-3" 1 1'-3" 1 1'-3" 1 1'-3" 1 1'-3" 1 1'-2" 1 1'-2" 1 1'-3" 1 1'-3" 1 1'-3" 1 1'-4'/2" 1 1'-4'/2" 1 1'-5" 2 1'-4'/2" 1 1'-5" 2 1'-4'/2" 1 1'-5" 2 1'-4'/2" 1 1'-5" 2 1'-4'/2" 1 1'-5" 2 1'-5" 2 1'-4'/2" 1 1'-5" 2 1'-5" 2 1'-5" 2 1'-5" 2 1'-5" 2 <td< th=""><th></th><th></th><th colspan="6">FOR ONE END BENT</th></td<></th></t<>	1'-3" 2 1'-3" 2 1'-3" 1 1'-3" 1 1'-3" 1 1'-3" 1 1'-3" 1 1'-3" 1 1'-3" 1 1'-3" 1 1'-3" 1 1'-3" 1 1'-2" 1 1'-2" 1 1'-3" 1 1'-3" 1 1'-3" 1 1'-4'/2" 1 1'-4'/2" 1 1'-5" 2 1'-4'/2" 1 1'-5" 2 1'-4'/2" 1 1'-5" 2 1'-4'/2" 1 1'-5" 2 1'-4'/2" 1 1'-5" 2 1'-5" 2 1'-4'/2" 1 1'-5" 2 1'-5" 2 1'-5" 2 1'-5" 2 1'-5" 2 <td< th=""><th></th><th></th><th colspan="6">FOR ONE END BENT</th></td<>			FOR ONE END BENT						
1'-3" b)	1'-3" 20 1'-2" 16 #4 STR 17'-7" 188 B3 9 #4 STR 2'-5" 15 D1 18 #6 STR 1'-6" 41 H1 24 #4 2 7'-10" 126 HK. 4 4 2 7'-10" 126 HK. 4 4 2 7'-10" 126 HK. 4 4 3 7'-5" 208 S2 42 #4 3 7'-5" 208 S3 10 #4 5 6'-6" 43 V1 48 *4 STR 4'-8" 150 W1 48 *4 STR 10.5 C Cless A<) HK.		BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	
32 10 *4 STR 1/*-7* 108 7'-2" 33 9 #4 STR 2'-5" 15 D1 18 *6 STR 1'-6" 41 HK. 41/2" 2'-5" 41/2" 11 18 *6 STR 1'-6" 41 HK. 41/2" 2'-5" 41/2" 11 18 *6 STR 1'-6" 41 HK. 41/2" 2'-5" 41/2" 11 18 *6 STR 1'-6" 41 HK. 41 24 *4 2 7'-10" 126 126 HK. 41 HK. 41/2" 10 14 10 16 17 100 126 16 17 126 18 18 16 17 17 16 16 17 17 16 17 17 16 16 17 17 16 16 17 17 18 16 18 18 18 16 17 17 18 16	7'-2" B2 16 +4 STR 17-7 188 7'-2" 9 +4 STR 2'-5" 15 01 18 +6 STR 1'-6" 41 11 2'-5" 41/2" - - - 11 18 +6 STR 1'-6" 41 11 24 +4 2 7'-10" 126 11 18 +6 STR 1'-6" 41 11 24 +4 2 7'-10" 126 11 18 +6 STR 1'-6" 41 12 +4 3 7'-5" 208 14 24 +4 3 7'-5" 208 18 10 +4 5 6'-6" 43 11'-3" 1.AP - - - - 18 +4 STR 4'-8" 150 - - 11'-3" 1.AP - - - - - - - - <td></td> <th></th> <td>B1</td> <td>8</td> <td>#9</td> <td>1</td> <td>35'-0"</td> <td>952</td>			B1	8	#9	1	35'-0"	952	
1'-2" D1 18 #6 STR 1'-6" 41 HL 24 #4 2 7'-10" 126 K1 12 #4 STR 2'-5" 41/2" HK 4 2 7'-10" 126 K1 12 #4 3 7'-5" 208 S2 42 #4 3 7'-5" 208 S2 42 #4 3 7'-5" 208 S2 42 #4 3 7'-5" 208 S3 10 #4 5 6'-6" 43 VI 48 #4 STR 4'-8" 150 S3 10 #4 5 6'-6" 43 VI 48 #4 STR 4'-8" 150 CLASS A CONCRETE BREAKDOWN (FOR ONE END BENT) 10.5 C.Y POUR *1 CAP, LOWER PART 10.5 C.Y WINGS HP 12 X 53 STEEL PILES TOTAL CLASS A CONCRETE 12.5 C.Y NO: 5 NO: 5 NO: 5 NO: 5 10.5	1 1 18 "6 STR 1'-6" 41 1 18 "6 STR 1'-6" 41 1 2'-5" 41/2" 12 "4 2 7'-10" 126 1 12 "4 2 7'-10" 126 12 12 14 3 7'-5" 208 1 12 "4 3 7'-5" 208 52 42 "4 4 3'-2" 89 53 10 "4 5 6'-6" 43 10 14 12 "4 4 3'-2" 89 53 10 "4 5 6'-6" 43 10 14 10 10 10 10 12 10 12 10 12 10 12 10 12 10 12 12 10 12 12 10 12 10 12 10 12 10 12 10 12 10 12 10 12 10 10 10 12 10 <td< td=""><td></td><th></th><td></td><td></td><td></td><td></td><td></td><td></td></td<>									
41/2" 2'-5" 41/2" H1 24 #4 2 7'-10" 126 K1 12 #4 STR 2'-11" 23 K1 12 #4 3 7'-5" 208 S2 42 #4 3'-2" 89 S3 10 #4 5 6'-6" 43 V1 48 #4 STR 4'-8" 150 S3 10 #4 5 6'-6" 43 V1 48 #4 STR 4'-8" 150 S3 10 #4 STR 4'-8" 150 S3 S3 S3 S3 S3 S3 S3 S4 STR MCNS & COLLARS S5 S5 S5 S5 S5 S3 STEL S5 S	4½" 2'-5" 4½" HI 24 #4 2 7'-10" 126 KI 12 #4 3 7'-5" 208 S2 42 #4 3 7'-5" 208 S2 42 #4 3'-2" 89 S3 10 #4 5 6'-6" 43 V1 48 #4 STR 4'-8" 150 5 1'-3" LAP V1 48 #4 STR 4'-8" V1 48 #4 STR 4'-8" 150 150 160 CLASS CONCRETE BREAKDOWN 100 100 1835 LBS CLASS CONCRETE BREAKDOWN 10.5 C.Y. POUR *1 CAP, LOWER PART 10.5 C.Y. WENSIONS ARE OUT TO CUT. END BENT No. 2 10 10 2.0 C.Y. LES HP 12 X 53 STEEL PILES TOTAL CLASS & CONCRETE 12.5 C.Y. N0: 5 N0: 5 N0: 5 10 10.5 C.Y. </td <td></td> <th>7'-2"</th> <td>B3</td> <td>9</td> <td>#4</td> <td>STR</td> <td>2'-5"</td> <td>15</td>		7'-2"	B3	9	#4	STR	2'-5"	15	
41/2" 2'-5" 41/2" HK. 4 12 #4 STR 2'-11" 23 S1 42 #4 3 7'-5" 208 S2 42 #4 4 3'-2" 83 S3 10 #4 5 6'-6" 43 V1 48 #4 STR 4'-8" 150 V1 V1 48 #4 STR 4'-8" 150 V1 V1 V1 V1 V1 V1 V1 V1 V1 V1	41/2" 2'-5" 41/2" HK. 41/2" 12 #4 STR 2'-11" 23 S1 42 #4 3 7'-5" 208 S2 42 #4 4 3'-2" 89 S3 10 #4 5 6'-6" 43 VI 48 #4 STR 4'-8" 150 CLASS A CONCRETE BREAKDOWN (FOR ONE END BENT) 1835 LBS. 0.0 S. C.Y. POUR =1 CAP, LOWER PART OF 2.0 C.Y.			D1	18	#6	STR	1'-6"	41	
41/2" 2'-5" 41/2" HK. 4 1/2" 1 HK. 4 1 1/2" 89 S3 10 14 5 6'-6" 43 HK. 1'-3" LAP 14 15 6'-6" 43 HK. 1'-8" 10 14 15 15 1835 1835 Class A CONCRETE BREAKDOWN (FOR ONE END BENT) 1835 LBS 10.5 C.Y 10.5 C.Y WINGS HP 12 X 53 STEEL PILES 10.5 Y	41/2" 2'-5" 41/2" HK. 4 HK. HK. 4 HK. HK. 4 3 T'-3" LAP Image: Signed stress of the st			H1	24	#4	2	7'-10"	126	
HK. Image: Hk. S2 42 #4 4 3'-2" 89 S3 10 #4 5 6'-6" 43 Image: Signed state	HK. HK. S2 42 #4 4 3'-2" 89 S3 10 #4 5 6'-6" 43 V1 48 #4 STR 4'-8" 150 Class A CONCRETE BREAKDOWN (FOR ONE END BENT) 0 1835 LBS. 0 CLASS A CONCRETE BREAKDOWN (FOR ONE END BENT) 0 90UR #2 UPPER PART OF 2.0 C.Y. WINGS HP 12 X 53 STEEL PILES TOTAL CLASS A CONCRETE 12.5 C.Y. T PILE DRIVING EQUIPMENT SETUP FOR HP 12 X 53 STEEL PILES NO: 5 NO: 5 10.5 C.Y.		4 ¹ / ₂ " 2'-5" 4 ¹ / ₂ "	K1	12	#4	STR	2'-11"	23	
MAX 4 Y XX S3 10 #4 5 6'-6" 43 V1 48 #4 STR 4'-8" 150 CLASS A CONCRETE BREAKDOWN (FOR ONE END BENT) 10.5 C.Y 0F WINGS & COLLARS 0.5 C.Y POUR #2 UPPER PART OF 2.0 C.Y 2.0 C.Y WINGS ILES HP 12 X 53 STEEL PILES TOTAL CLASS A CONCRETE 12.5 C.Y NO: 5 NO: 5 NO: 5 NO: 5 12.5 C.Y	MIN 4 5 6'-6" 43 1'-3'' LAP 1'-3'' LAP 1 1 1 1 5 1'-3'' LAP 1 1 1 1 1 5 1'-3'' LAP 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			S1	42	#4	3	7'-5"	208	
(4) S3 10 #4 5 6'-6" 43 (1'-3'' LAP (1'-3'' LAP (1'-3'' LAP (1'-8" 150 (5) (1'-3'' LAP (1'-8" (1'-8" 150 (5) (1'-8") (1'-8" (1'-8") (1'-8") (5) (1'-8") (1'-8") (1'-8") (1'-8") (5) (1'-8") (1'-8") (1'-8") (1'-8") (5) (1'-8") (1'-8") (1'-8") (1'-8") (5) (1'-8") (1'-8") (1'-8") (1'-8") (5) (1'-8") (1'-8") (1'-8") (1'-8") (5) (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8")	(4) S3 10 #4 5 6'-6" 43 (1'-3'' LAP (1'-3'' LAP VI 48 #4 STR 4'-8" 150 (5) (1'-3'' LAP (1'-3'' LAP (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") (1'-8") <t< td=""><td></td><th>ЧК. (НК. '</th><td>S2</td><td>42</td><td>#4</td><td>4</td><td>3'-2"</td><td>89</td></t<>		ЧК. (НК. '	S2	42	#4	4	3'-2"	89	
Image: Second stress of the second stress	WENSIONS ARE OUT TO OUT. END BENT No. 2 LES HP 12 X 53 STEEL PILES 375 NO: 5 NO: 5		(4)	S3	10	#4	5	6'-6"	43	
(5) (FOR ONE END BENT) 1835 LBS (FOR ONE END BENT) 1835 LBS (FOR ONE END BENT) 10.5 C.Y	Image: Second		1'-3'' LAP	V1	48	#4	STR	4'-8"	150	
(5) (FOR ONE END BENT) 1835 LBS (FOR ONE END BENT) 1835 LBS (FOR ONE END BENT) 10.5 C.Y (FOR ONE END BENT) 000000000000000000000000000000000000	MENSIONS ARE OUT TO OUT.(FOR ONE END BENT)1835 LBS.MENSIONS ARE OUT TO OUT.CLASS A CONCRETE BREAKDOWN (FOR ONE END BENT)10.5 C.Y.MENSIONS ARE OUT TO OUT.POUR #1 CAP. LOWER PART OF WINGS & COLLARS10.5 C.Y.POUR #2 UPPER PART OF WINGS2.0 C.Y.END BENT No. 2POUR #2 UPPER PART OF WINGS2.0 C.Y.LES = 375HP 12 X 53 STEEL PILES SETUP FOR HP 12 X 53 STEEL PILES NO: 5TOTAL CLASS A CONCRETE IDES NO: 512.5 C.Y.									
(5) (FOR ONE END BENT) 1835 LBS (FOR ONE END BENT) 1835 LBS (FOR ONE END BENT) 10.5 C.Y	Image: Second									
I'-8"Ø (FOR ONE END BENT) I'-8"Ø POUR #1 CAP, LOWER PART OF OF WINGS & COLLARS MENSIONS ARE OUT TO OUT. POUR #2 UPPER PART OF 2.0 C.Y WINGS END BENT No. 2 POUR #2 UPPER PART OF 2.0 C.Y WINGS LES HP 12 X 53 STEEL PILES = 375 NO: 5 LES HP 12 X 53 STEEL PILES F PILE DRIVING EQUIPMENT SETUP FOR HP 12 X 53 STEEL PILES NO: 5	MENSIONS ARE OUT TO OUT. (FOR ONE END BENT) MENSIONS ARE OUT TO OUT. POUR #1 CAP, LOWER PART OF OF WINGS & COLLARS END BENT NO.2 LES HP 12 X 53 STEEL PILES 375 N0:5 PILE DRIVING EQUIPMENT SETUP FOR HP 12 X 53 STEEL PILES N0:5		$\left(\begin{array}{c} (5) \end{array}\right)$						1835 LBS.	
1'-8"Ø POUR #1 CAP, LOWER PART OF UNGS & COLLARS 10.5 C.Y MENSIONS ARE OUT TO OUT. POUR #2 UPPER PART OF 2.0 C.Y END BENT No.2 POUR #2 UPPER PART OF 2.0 C.Y LES HP 12 X 53 STEEL PILES = 375 N0:5 LIN.FT.= 350 TOTAL CLASS A CONCRETE 12.5 C.Y PILE DRIVING EQUIPMENT SETUP FOR HP 12 X 53 STEEL PILES N0:5	1'-8"Ø POUR #1 CAP, LOWER PART OF UNGS & COLLARS 10.5 C.Y. MENSIONS ARE OUT TO OUT. POUR #2 UPPER PART OF 2.0 C.Y. END BENT No.2 POUR #2 UPPER PART OF 12.5 C.Y. LES HP 12 X 53 STEEL PILES = 375 NO:5 LIN.FT.= 350 TOTAL CLASS A CONCRETE 12.5 C.Y. NO:5									
MENSIONS ARE OUT TO OUT. WINGS END BENT No. 2 WINGS LES HP 12 X 53 STEEL PILES = 375 NO: 5 LIN. FT.= 350 T PILE DRIVING EQUIPMENT SETUP FOR HP 12 X 53 STEEL PILES NO: 5 TOTAL CLASS A CONCRETE 12.5 C.Y	MENSIONS ARE OUT TO OUT. WINGS END BENT No. 2 WINGS LES HP 12 X 53 STEEL PILES = 375 NO: 5 LIN. FT.= 350 T PILE DRIVING EQUIPMENT SETUP FOR HP 12 X 53 STEEL PILES NO: 5 TOTAL CLASS A CONCRETE 12.5 C.Y.	1'-8"Ø			POUR #1 CAP,LOWER PART 10.5 C.					
LES HP 12 X 53 STEEL PILES = 375 NO: 5 LIN.FT.= 350 TOTAL CLASS A CONCRETE 12.5 C.Y PILE DRIVING EQUIPMENT SETUP FOR HP 12 X 53 STEEL PILES NO: 5 NO: 5	LES HP 12 X 53 STEEL PILES = 375 NO: 5 LIN.FT.= 350 TOTAL CLASS A CONCRETE 12.5 C.Y. PILE DRIVING EQUIPMENT SETUP FOR HP 12 X 53 STEEL PILES NO: 5 NO: 5	MENSIO		POUR			art o	F	2.0 C.Y.	
= 375 NO:5 LIN.FT.= 350 TOTAL CLASS A CONCRETE 12.5 C.Y PILE DRIVING EQUIPMENT SETUP FOR HP 12 X 53 STEEL PILES NO:5	= 375 NO:5 LIN.FT.= 350 TOTAL CLASS A CONCRETE 12.5 C.Y. PILE DRIVING EQUIPMENT SETUP FOR HP 12 X 53 STEEL PILES NO:5		END BENI No.2							
NO:5 SETUP FOR HP 12 X 53 STEEL PILES NO:5	NO:5 SETUP FOR HP 12 X 53 STEEL PILES NO:5			TOTAL CLASS A CONCRETE 12.5 C.Y.						
NO:5 HP 12 X 53 STEEL PILES NO:5	NO:5 HP 12 X 53 STEEL PILES NO:5	Г								
NO.3 PTLE REDRIVES NO.3	NO:3 PILE REDRIVES NO:3		HP 12 X 53 STEEL PILES							
		NO: 3	PILE REDRIVES NO: 3							

STD. NO. EB_27_90S