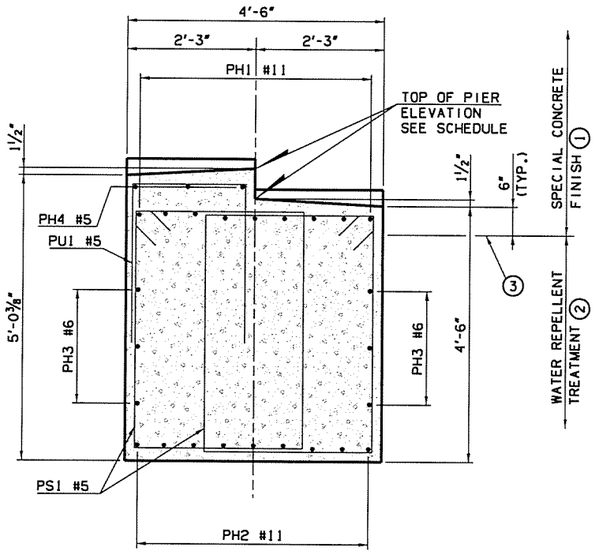


SECTION A-A
SCALE: ¾" = 1'-0"

① APPLY CIM 1000 "SPECIAL CONCRETE FINISH", TO SURFACES INDICATED, INCLUDING TOP OF PIER CAP, ALL SURFACES OF THE PEDESTALS, AND DOWN 6" BELOW THE EDGE OF THE CAP ON THE SIDES AND END FACES.

② TREAT ALL EXTERIOR VERTICAL SURFACES OF THE PIER CAPS WITH A PENETRATING WATER REPELLENT SURFACE TREATMENT. (CIM 1000 WILL OVERLAP WATER REPELLENT NEAR TOP OF CAP.)

③ MASK SIDES AND ENDS OF PIER CAP ALONG THIS LINE TO PROVIDE A CLEAN STRAIGHT FINISH AT BOTTOM OF CIM 1000 APPLICATION.

NOTE:
APPLY URETHANE COATING BEFORE ANY OTHER SURFACE TREATMENTS.

PIER QUANTITIES

ITEM	UNIT	PIER NO.1	PIER NO. 2	TOTAL
SPECIAL CONCRETE FINISH	SY	38	38	77
CLASS A CONCRETE	CY	39.3	39.3	78.6
EPOXY COATED REINFORCING STEEL	LB	7240	7240	14480
WATER REPELLENT (VISUALLY INSPECTED)	SY	46	46	92
DRILLED SHAFTS 48" DIAMETER	LF	73	70	143
CROSSHOLE SONIC LOGGING	EA			1

PIER STATIONS AND ELEVATIONS SCHEDULE

PIER NO. 1

PEDESTAL NO.	ELEV. DOWN STA.	ELEV. UP STA.	WORKING POINT STATION	ELEVATION
1	707.48	706.94	860+20.54	-
2	707.68	707.15	TOP OF PIER DOWN STA.	707.31
3	707.89	707.35	TOP OF PIER UP STA.	706.78
4	707.68	707.15	TOP OF DRILLED SHAFTS	702.16
5	707.48	706.94	BOT. OF DRILLED SHAFTS	665.70

PIER NO. 2

PEDESTAL NO.	ELEV. DOWN STA.	ELEV. UP STA.	WORKING POINT STATION	ELEVATION
1	706.94	707.48	860+95.54	-
2	707.15	707.68	TOP OF PIER DOWN STA.	706.78
3	707.35	707.89	TOP OF PIER UP STA.	707.31
4	707.15	707.68	TOP OF DRILLED SHAFTS	702.16
5	706.94	707.48	BOT. OF DRILLED SHAFTS	667.20

PIER NO. 1 BAR LIST
(ONE REQUIRED)

EPOXY COATED REINFORCING

MARK	SIZE	QTY.	FORM	LENGTH	REMARKS
P1	#4	10	BNT	5'-0"	SEE NOTE 6
P2	#4	6	BNT	6'-9"	SEE NOTE 6
P3	#4	20	BNT	5'-1"	SEE NOTE 6
P4	#4	12	BNT	6'-10"	SEE NOTE 6
PE1	#5	6	BNT	11'-4"	
PU1	#5	94	BNT	5'-9"	
PH1	#11	9	BNT	49'-7"	
PH2	#11	9	STR	46'-5"	
PH3	#6	6	STR	46'-5"	
PH4	#5	3	STR	46'-5"	
PH5	#4	4	BNT	11'-11"	
PS1	#5	80	BNT	14'-9"	

DRILLED SHAFT PLAIN REINFORCING

MARK	SIZE	QTY.	FORM	LENGTH	REMARKS
DS1	#11	36	STR	39'-3"	SEE NOTE 1, 3
DT1	W20	2	BNT	715'-0"	SEE NOTE 1, 4

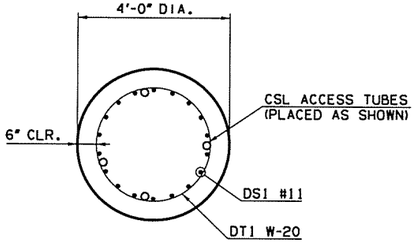
PIER NO. 2 BAR LIST
(ONE REQUIRED)

EPOXY COATED REINFORCING

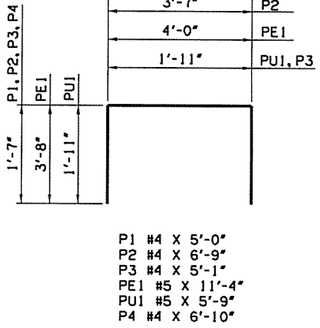
MARK	SIZE	QTY.	FORM	LENGTH	REMARKS
P1	#4	10	BNT	5'-0"	SEE NOTE 6
P2	#4	6	BNT	6'-9"	SEE NOTE 6
P3	#4	20	BNT	5'-1"	SEE NOTE 6
P4	#4	12	BNT	6'-10"	SEE NOTE 6
PE1	#5	6	BNT	11'-4"	
PU1	#5	94	BNT	5'-9"	
PH1	#11	9	BNT	49'-7"	
PH2	#11	9	STR	46'-5"	
PH3	#6	6	STR	46'-5"	
PH4	#5	3	STR	46'-5"	
PH5	#4	4	BNT	11'-11"	
PS1	#5	80	BNT	14'-9"	

DRILLED SHAFT PLAIN REINFORCING

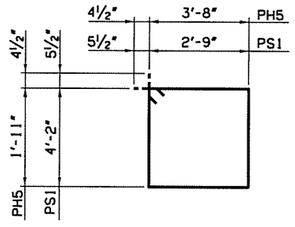
MARK	SIZE	QTY.	FORM	LENGTH	REMARKS
DS1	#11	36	STR	37'-9"	SEE NOTE 1, 3
DT1	W20	2	BNT	686'-0"	SEE NOTE 1, 4



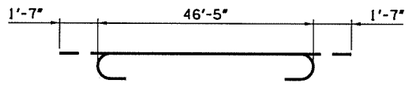
SECTION C-C
SCALE: ½" = 1'-0"



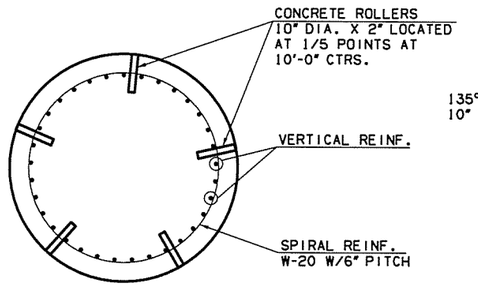
P1 #4 X 5'-0"
P2 #4 X 6'-9"
P3 #4 X 5'-1"
PE1 #5 X 11'-4"
PU1 #5 X 5'-9"
P4 #4 X 6'-10"



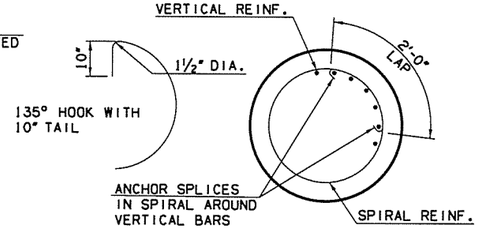
PS1 #5 X 14'-9"
PH5 #4 X 11'-11"



PH1 #11 X 49'-7"

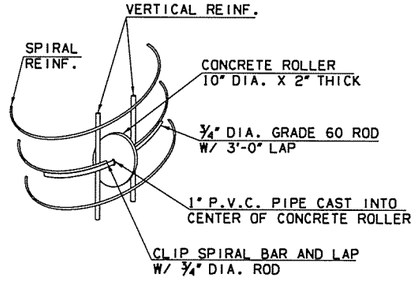


DETAIL OF DRILLED SHAFT ROLLER PLACEMENT



SPIRAL SPLICE

NOTE:
SPIRAL BARS SHALL CONFORM TO AASHTO M32. SPIRAL BAR LENGTH INCLUDE LAPS.



DETAIL OF DRILLED SHAFT ROLLER INSTALLATION

NOTE:
CONCRETE USED IN CONCRETE ROLLERS SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 P.S.I.. SLAB BOLSTERS, HIGH CHAIRS AND PLASTIC ROLLERS SHALL NOT BE SUBSTITUTED FOR THE CONCRETE ROLLERS.

NOTE:

1. DRILLED SHAFT BARS ARE FOR INFORMATION PURPOSES ONLY. THE BARS ARE NOT INCLUDED IN THE QUANTITIES, BUT ARE INCLUDED IN THE PRICE BID FOR L.F. OF DRILLED SHAFTS.
2. INCLUDE COST FOR CROSSHOLE SONIC LOGGING ACCESS TUBES IN THE PRICE BID FOR L.F. OF DRILLED SHAFTS.
3. DSI BARS SHALL BE EPOXY COATED FOR THE FULL LENGTH.
4. DTI BARS SHALL BE PLAIN REINFORCING FOR THE FULL LENGTH.
5. ALL EDGES OF PIER CAP SHALL HAVE A 1½" CHAMFER EXCEPT FOR PEDESTAL EDGES WHICH SHALL HAVE A ¾" CHAMFER.
6. PEDESTAL REINFORCING NOT REQUIRED AT PEDESTALS 1 AND 5.

Design	MKR	6/16
Drawn	RAH	6/16
Checked	DAS	6/16
Approved	SAK	6/16
Squad	BENHAM	

US 169 OVER OPOSSUM CREEK — NOWATA COUNTY
BRIDGE A
PIER DETAILS
(SHEET 2 OF 2)
Job Piece No. 27092(04) Sheet No. 60

7/12/2016
11:26:44 AM
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