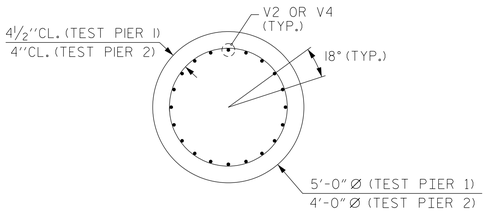
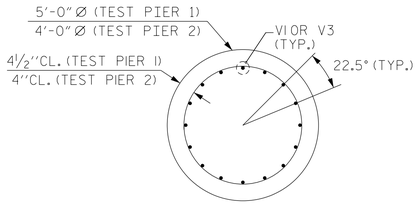
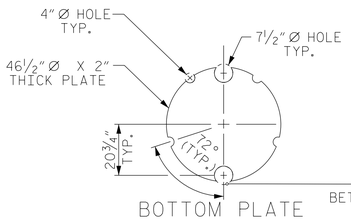




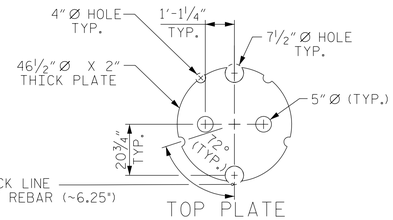
SECTION A-A



BOTTOM PLATE

SECTION B-B

FOR CLARITY, SECTIONS "A-A" AND "B-B" OMIT DETAILS OF TEST INSTRUMENTATION.

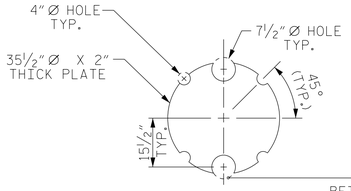


TOP PLATE

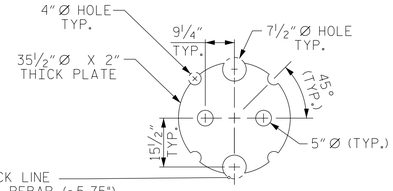
NOTE: NOMINAL 6" SLICK LINE BETWEEN O-CELL & INSIDE OF REBAR (~6.25")

46.50" Ø X 2" THICK PLATE

(46.50" OR INSIDE DIAMETER OF REBAR CAGE - TEST PIER 1)



BOTTOM PLATE

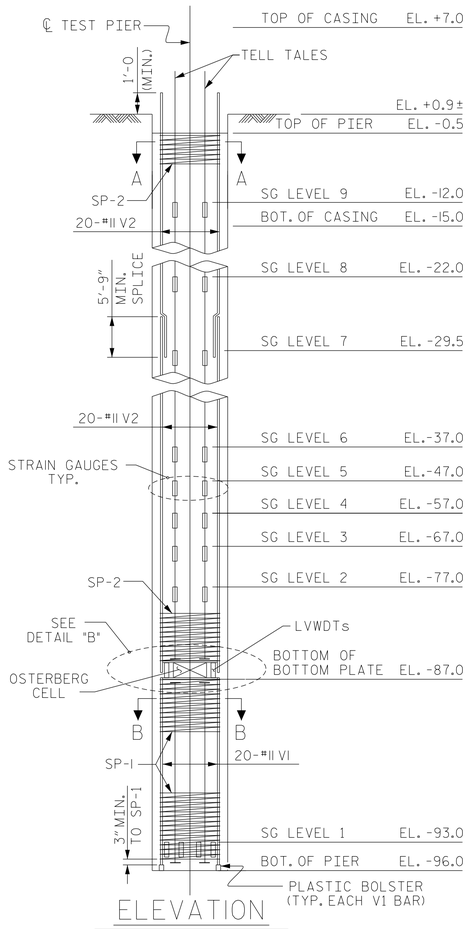


TOP PLATE

NOTE: NOMINAL 5" SLICK LINE BETWEEN O-CELL & INSIDE OF REBAR (~5.75")

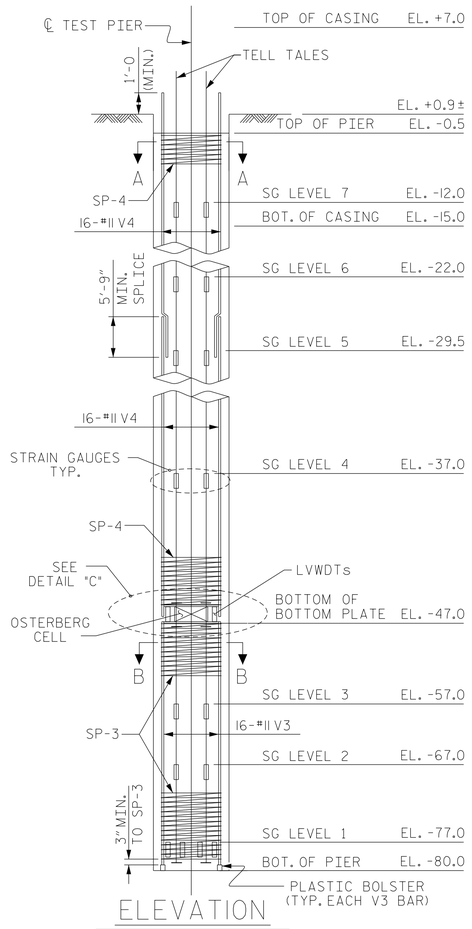
35.50" Ø X 2" THICK PLATE

(35.50" OR INSIDE DIAMETER OF REBAR CAGE - TEST PIER 2)



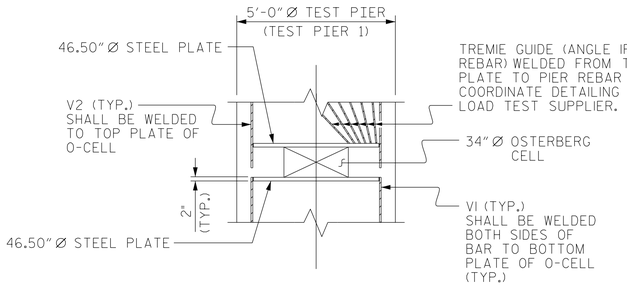
ELEVATION

(LOAD TEST #1 - TEST PIER 1)
SG LEVEL # DENOTES STRAIN GAUGE ELEVATIONS

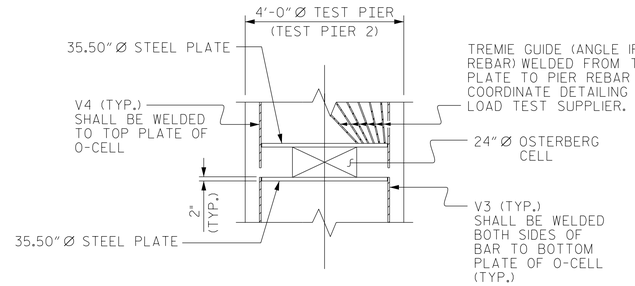


ELEVATION

(LOAD TEST #2 - TEST PIER 2)
SG LEVEL # DENOTES STRAIN GAUGE ELEVATIONS



DETAIL "B"

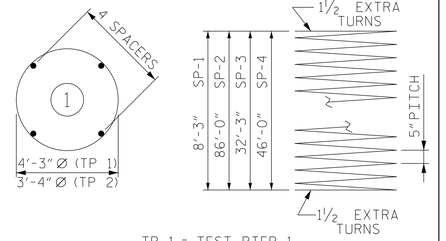


DETAIL "C"

ASSEMBLY STEPS:

1. O-CELL FITTED WITH TOP AND BOTTOM STEEL PLATES.
2. TOP AND BOTTOM STEEL PLATES OF O-CELL ASSEMBLY WELDED TO NON-CONTINUOUS REINFORCING CAGE WITH FILLET WELDS ON BOTH SIDES OF REBAR.
3. CONSTRUCT TREMIE GUIDE TO DIRECT TREMIE PAST THE O-CELL ASSEMBLY.
4. REINFORCING CAGE LOWERED INTO EXCAVATION AND SECURED AT REQUIRED ELEVATION.

BAR TYPES



TP 1 = TEST PIER 1
TP 2 = TEST PIER 2
ALL BAR DIMENSIONS ARE OUT TO OUT.

BILL OF MATERIAL

TEST PIER 1

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
V1	20	#11	STR	8'-8"	921
V2	40	#11	STR	47'-6"	10095
SP-1	1	#5	1	303'-6"	317
SP-2	1	#5	1	2770'-11"	2890

REINFORCING STEEL	(LBS.)	11016
SPIRAL REINFORCING STEEL	(LBS.)	3207
TEST PIER CONCRETE	(C.Y.)	69.4
5'-0" Ø TEST PIER	(LIN. FT.)	95.50
SID INSPECTIONS	EACH	1
SPT TESTING	EACH	1
CSL TESTING	EACH	1
SONIC CALIPER TESTING	EACH	1
PERMANENT STEEL CASING	(LIN. FT.)	22.0
CSL TUBES	(LIN. FT.)	388.0
AXIAL LOAD TEST NO. 1		LUMP SUM

TEST PIER 2

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
V3	16	#11	STR	32'-8"	2777
V4	32	#11	STR	27'-6"	4675
SP-3	1	#5	1	835'-8"	872
SP-4	1	#5	1	1176'-2"	1227

REINFORCING STEEL	(LBS.)	7452
SPIRAL REINFORCING STEEL	(LBS.)	2099
TEST PIER CONCRETE	(C.Y.)	37.0
4'-0" Ø TEST PIER	(LIN. FT.)	79.50
SID INSPECTIONS	EACH	1
SPT TESTING	EACH	1
CSL TESTING	EACH	1
SONIC CALIPER TESTING	EACH	1
PERMANENT STEEL CASING	(LIN. FT.)	22.0
CSL TUBES	(LIN. FT.)	324.0
AXIAL LOAD TEST NO. 2		LUMP SUM

PROJECT NO. B-4929
PENDER COUNTY
STATION: 38+13.81 -L2-

SHEET 2 OF 2

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUBSTRUCTURE
AXIAL LOAD TEST

NORTH CAROLINA PROFESSIONAL SEAL 26936 ENGINEER DAVID S. STUTTS
6/14/2016
DocuSigned by: David Stutts AAA2999A8BC64F2...

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-211
1			3			TOTAL SHEETS
2			4			278

DRAWN BY : T.R. PETERSON DATE : 4/2016
CHECKED BY : W.D. CRUTCHER DATE : 4/2016
DESIGN ENGINEER OF RECORD: D.S. STUTTS DATE : 4/2016

$$$$$$SYSTIME$$$$$
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$$$$USERNAME$$$$