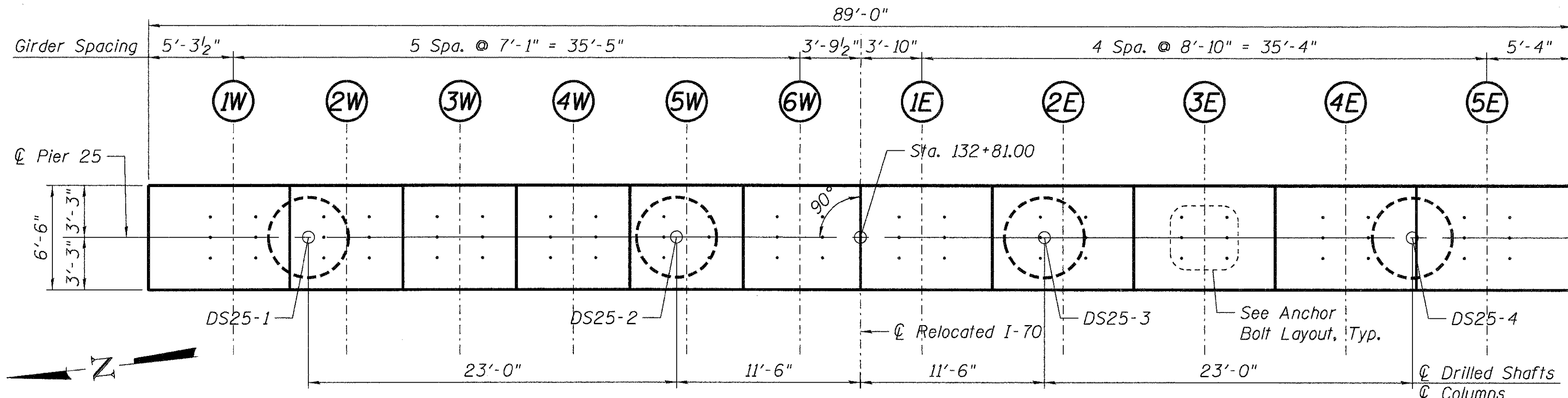
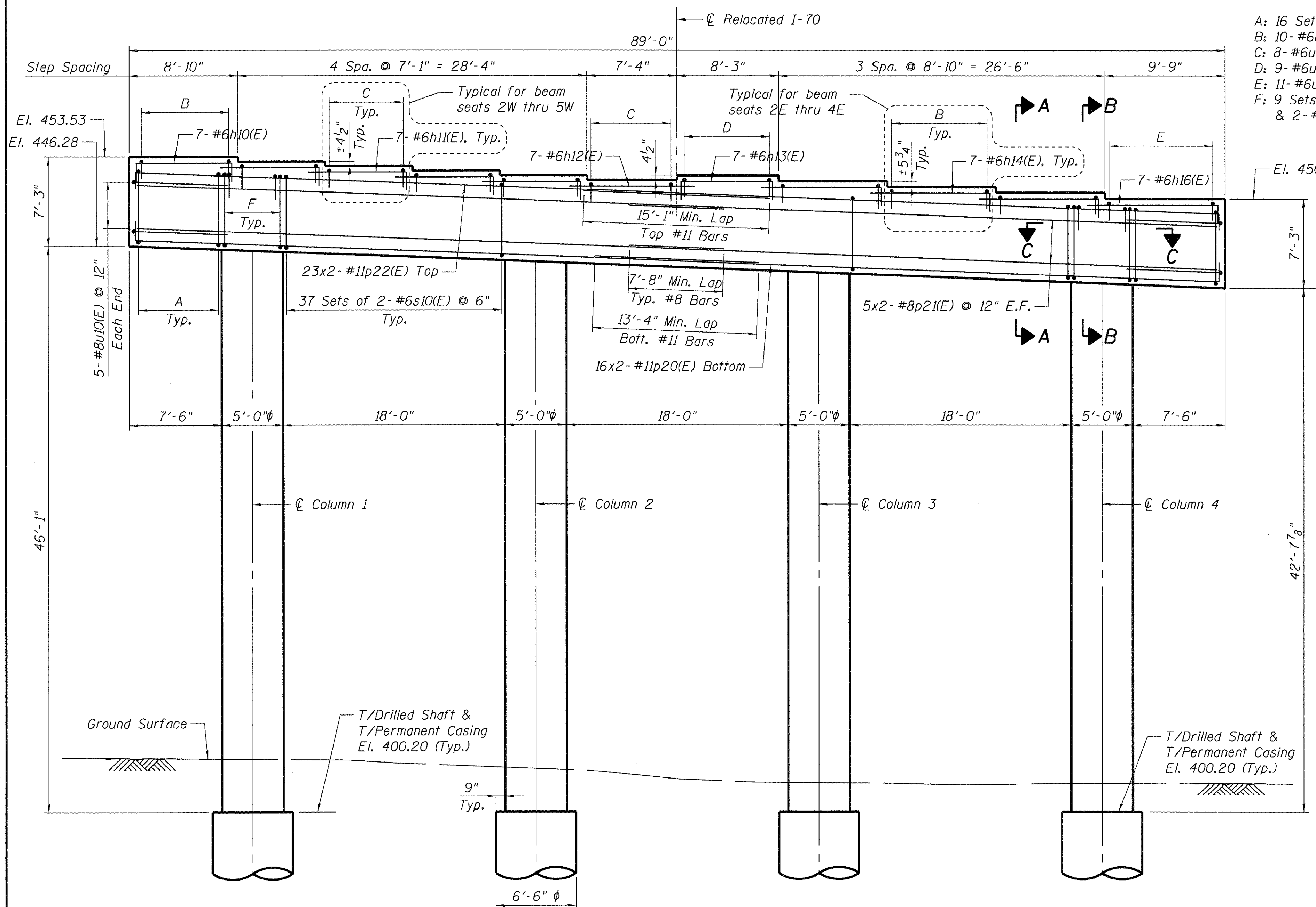


PIER 25 PLAN

BEARING SEAT ELEVATIONS

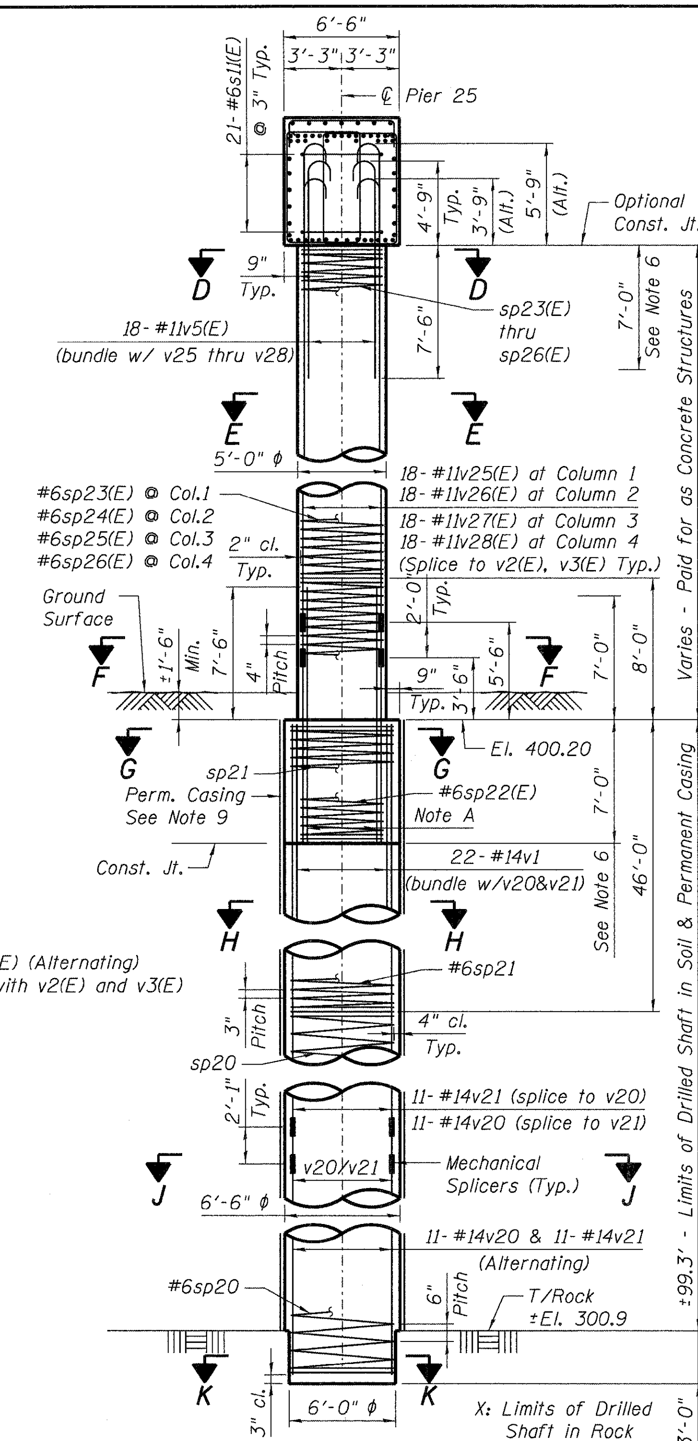
Girder	Elev.
1W	453.53
2W	453.15
3W	452.78
4W	452.39
5W	452.01
6W	451.63
1E	452.01
2E	451.54
3E	451.07
4E	450.59
5E	450.11

A: 16 Sets of 2-#6s10(E) @ 6"
B: 10-#6u11(E) @ 12"
C: 8-#6u11(E) @ 12"
D: 9-#6u11(E) @ 12"
E: 11-#6u11(E) @ 12"
F: 9 Sets of 1-#6s12(E) & 2-#6s13(E) @ 6"



PIER 25 ELEVATION

(Looking East)



Note A:
9-#11v2(E) & 9-#11v3(E) (Alternating)
18-#11v4(E) - bundle with v2(E) and v3(E)

PIER 25 END VIEW

NOTES:

1. Work this sheet with Sht. S-83.
2. Cast steps monolithically with cap.
3. Space top reinforcement in cap to miss anchor bolts.
4. The hooks of v25(E) thru v28(E) bars embedded in pier cap shall be oriented inward.
5. Splice locations of v and v(E) bars shall be staggered by 2'-0" min. Lap splicing of v and v(E) bars is not allowed, full-mechanical bar splicers or full-welding of bars is required.
6. Lapping of spiral reinforcement is not allowed within 7'-0" of T/Column and B/Column in either the columns or drilled shafts. Where splicing is necessary, fully-welded or full-mechanical splices are allowed.
7. Continue sp23(E) thru sp26(E) to bottom of pier cap stirrup bars.
8. When splicing of spiral reinforcement is necessary, the spirals shall be provided with 1½ extra turns at the ends to be spliced. These additional turns shall either be welded together according to AWS D1.4, or shall both terminate with a 135° standard hook. Provide min. 4-#4 spacers or equivalent.
9. The Contractor is responsible for determining the casing thickness and the actual tip elevation to be used. See Article 516.06(d) of the Standard Specifications. Pay limits for the Permanent Casing shall be based on the minimum length shown.
10. The drilled shaft foundation design is based on end bearing in bedrock. The limits shown for Drilled Shaft in Rock is the minimum penetration required to achieve the factored resistance used in design (200 ksf).
11. Wet construction methods within the permanent casing may be required. The Contractor's installation procedure shall clearly address cleaning and inspection methods proposed for use with wet construction methods which will ensure adequate end bearing on rock is achieved.

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - MDB	REVISED -
		DRAWN - MDB	REVISED -
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT SCALE = $SCALE$	CHECKED - TCU	REVISED -
	PLOT DATE = $DATE$	DATE - 06/04/10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
I-70 CONNECTION OVER
NS, TRRA, MCT AND INDUSTRIAL DR.

PIER 25 PLAN & ELEVATION

SCALE: | SHEET NO. S-82 OF S-111 | STA. 134+22.00 TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1HVB	ST. CLAIR	285	192
SN 082-0318 (EB) & 0319 (WB)		CONTRACT NO. 76C44		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

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6-03-2010, 10:50:08 BONDHUJO \\FS-0044\AM\VAULT\D-TRANS.07\2202\20860-001\STRUCT\CAD\01 DESIGN\0820318\SHEET\0820318-CONN-05-002-SHT-P1.DGN