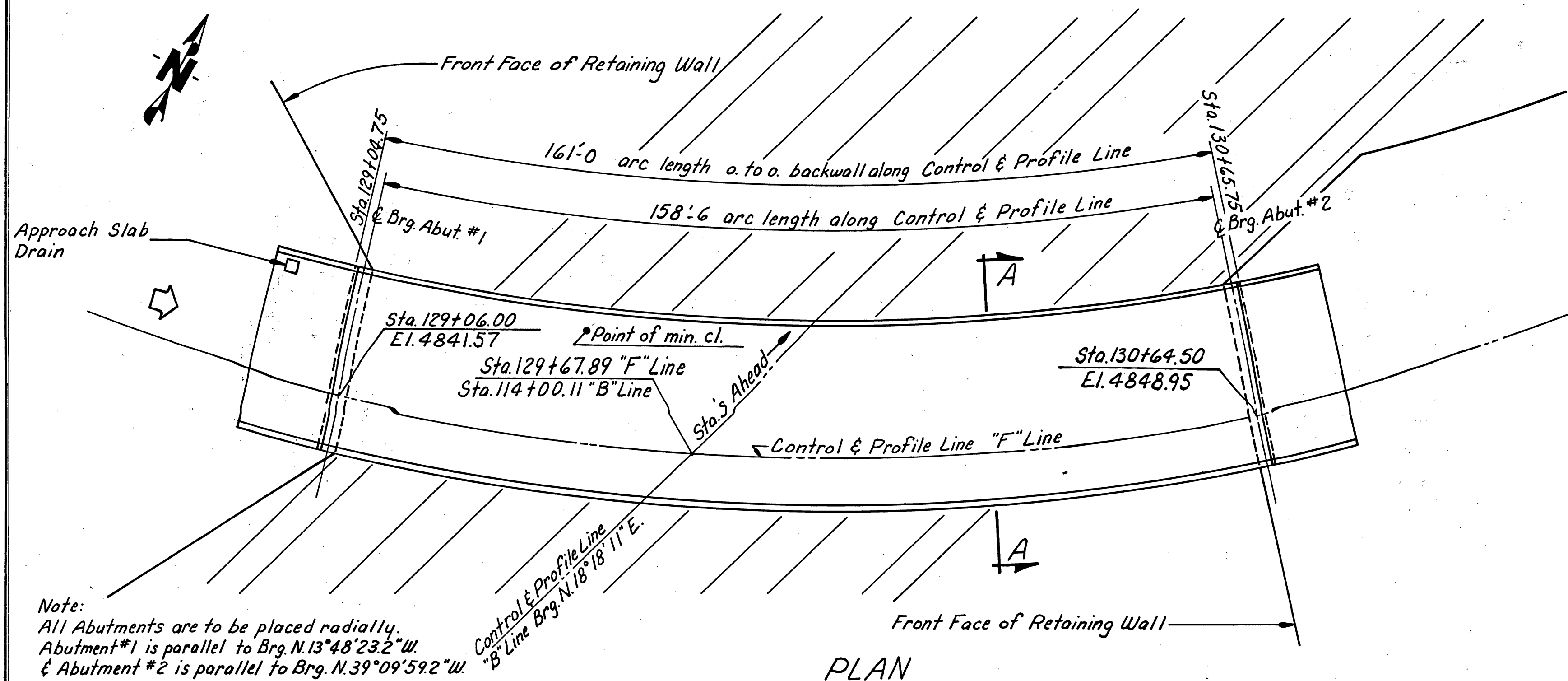
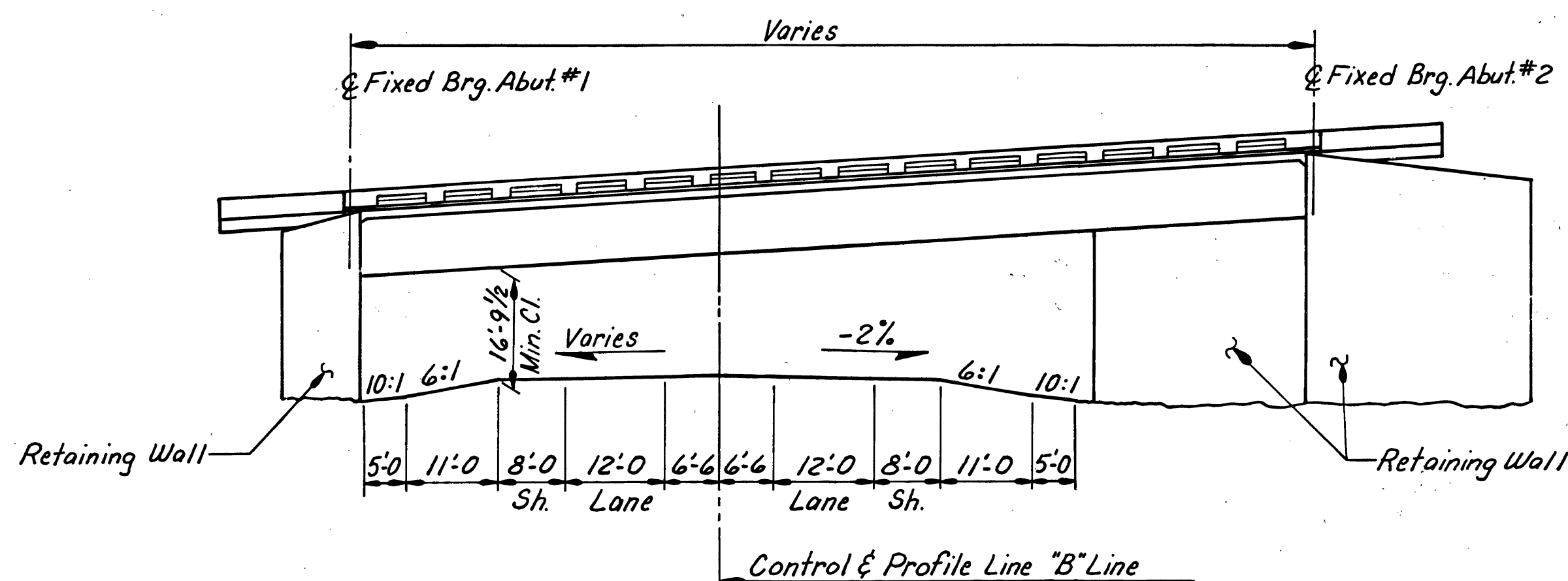


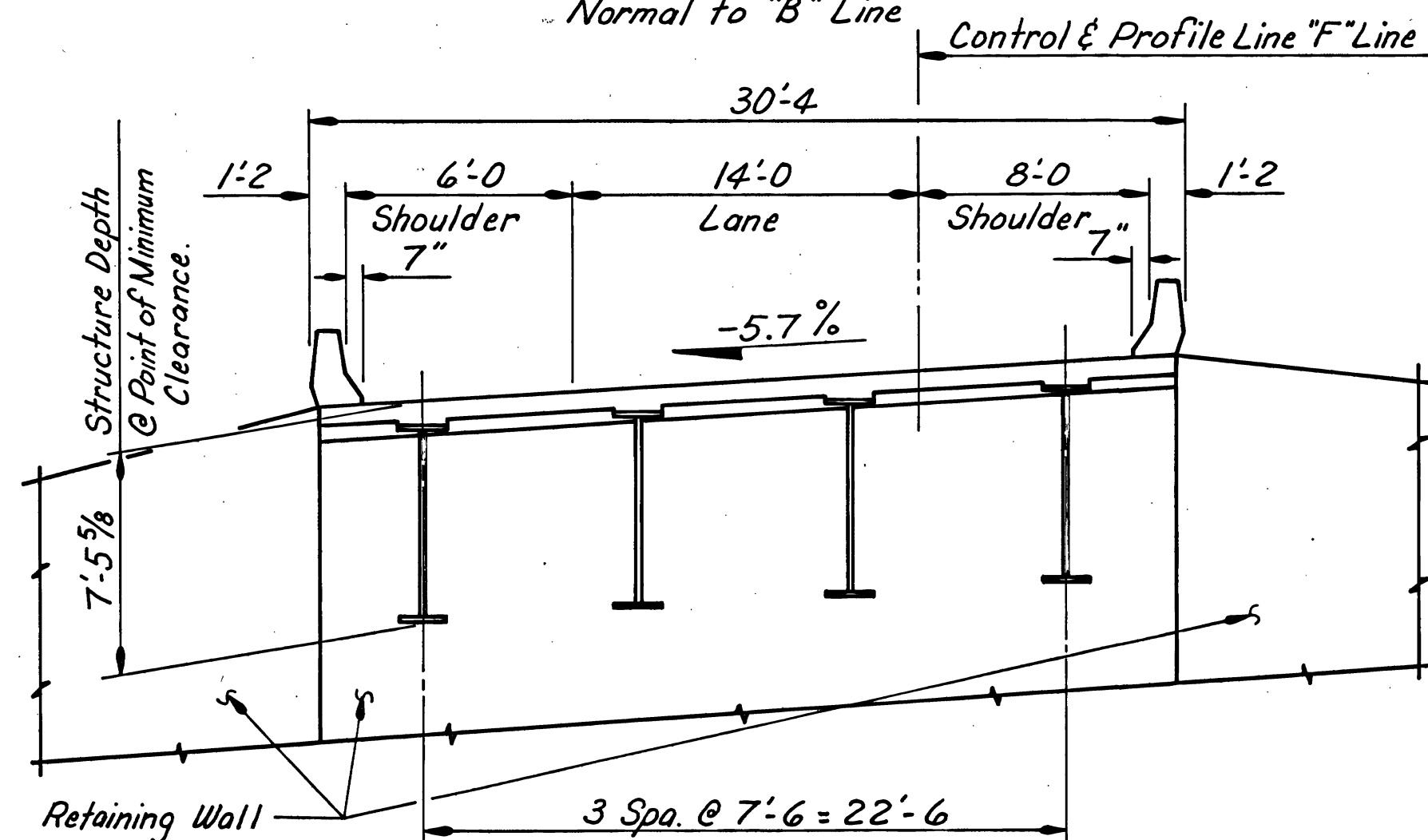


PLAN

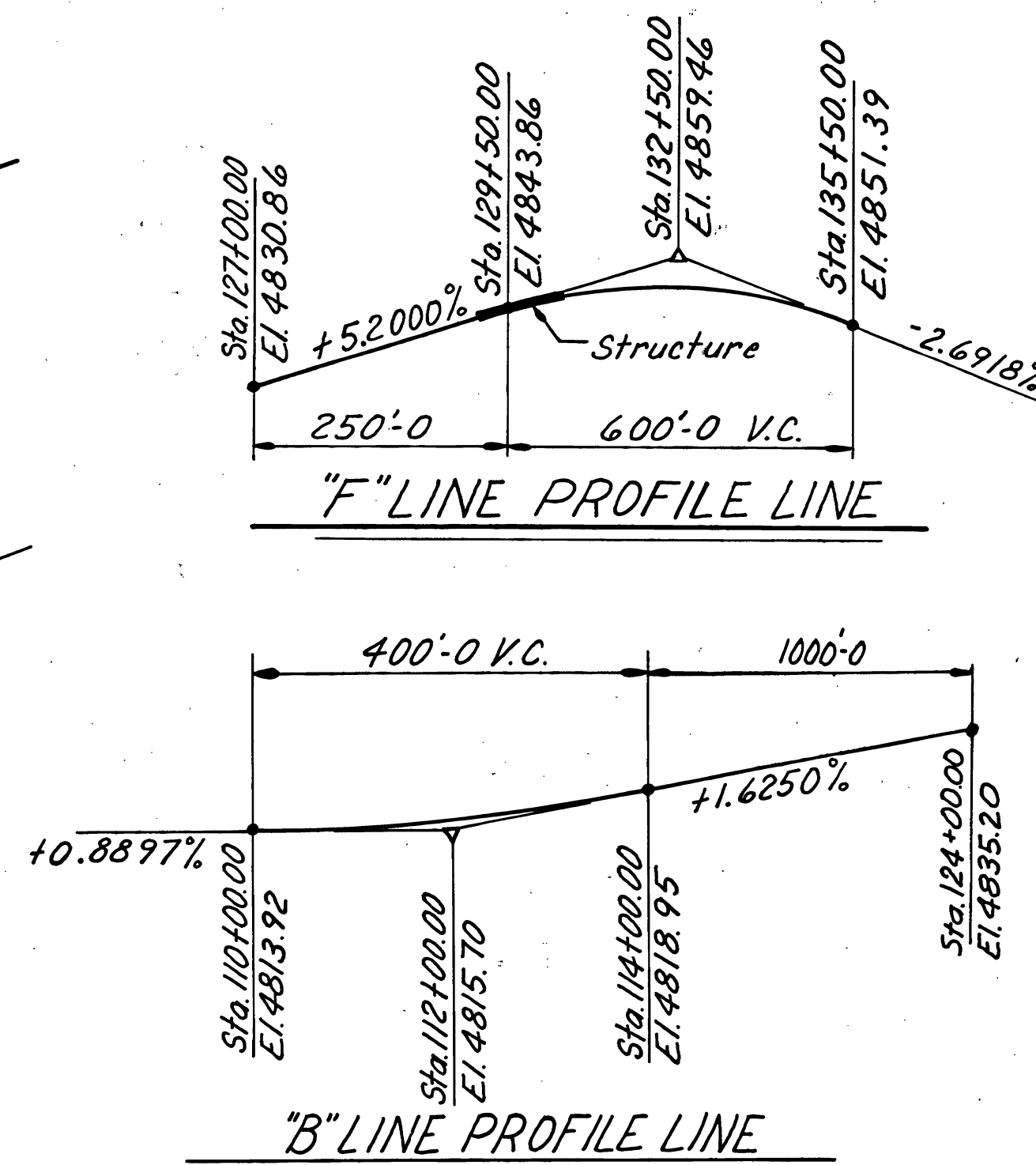


ELEVATION

Normal to "B" Line



SECTION A-A



"B" LINE CURVE DATA

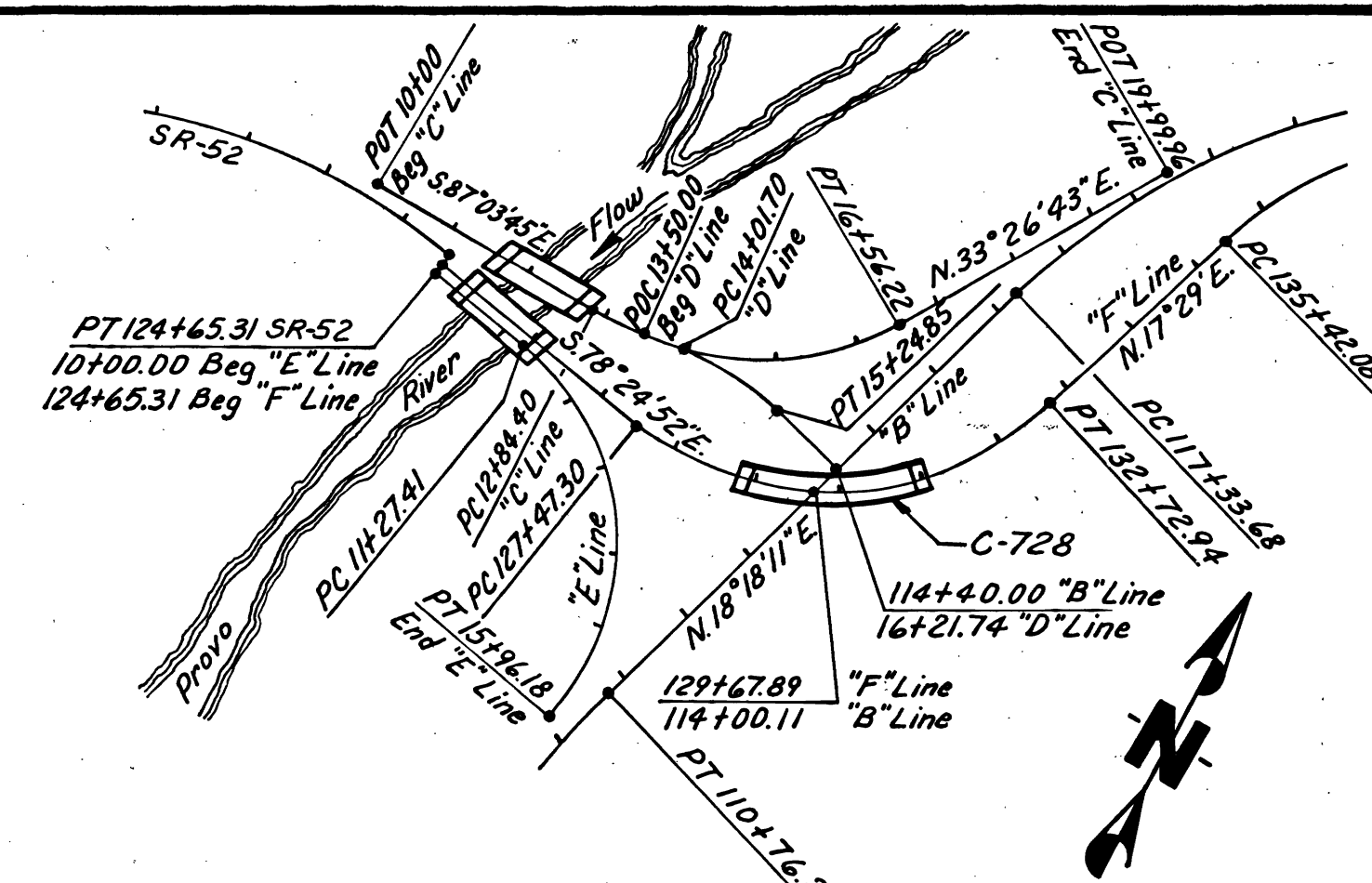
PI = 108+38.74	PI = 120+49.24
Δ = 29°08'40.7" Rt.	Δ = 42°10'01.1" Rt.
D = 6°00'	D = 7°00'
R = 954.93'	R = 818.51'
T = 248.25'	T = 315.57'
L = 485.74'	L = 602.39'

"F" LINE CURVE DATA

PI = 130+70.31
Δ = 84°06'08" Lt.
D = 16°00'
R = 358.10'
T = 323.01'
L = 525.64'

INDEX OF SHEETS

1. Situation and Layout
2. Soil Data
3. Foundation Plan
4. Abutment Details
5. Framing Plan & Camber Diagrams
6. B1 & B2 Girder Details
7. B3 & B4 Girder Details
8. Steel Details
9. Steel Diaphragm Details
10. Deck Plan & Sections
11. Approach Slab Drain Details
12. Screed Elevations
13. Parapet Details
14. Reinforcing Steel Schedule



LOCATION PLAN

GENERAL NOTES

1. Materials, construction, and workmanship shall be in accordance with the Utah Department of Transportation Standard Specifications for Road and Bridge Construction, Edition of 1979, and Supplements thereto which are in effect at the date of request for bids.
2. All reinforcing steel shall be deformed billet-steel bars conforming to ASTM Designation A-615, Grade 60.
3. All structural steel shall be structural carbon steel conforming to AASHTO Designation M-183 except where noted otherwise.
4. Exposed concrete corners shall be chamfered 3/4" except where noted otherwise.
5. Cover to reinforcing steel shall be 2" except where noted otherwise.
6. All cast-in-place concrete shall be Class AA(AE) except where specified otherwise.

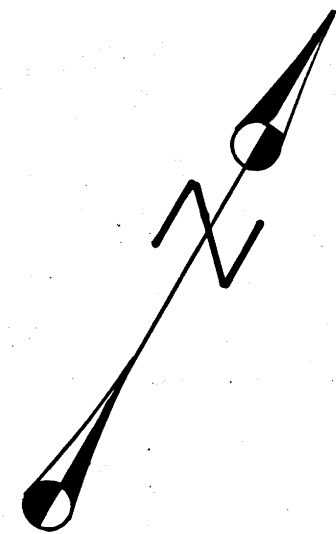
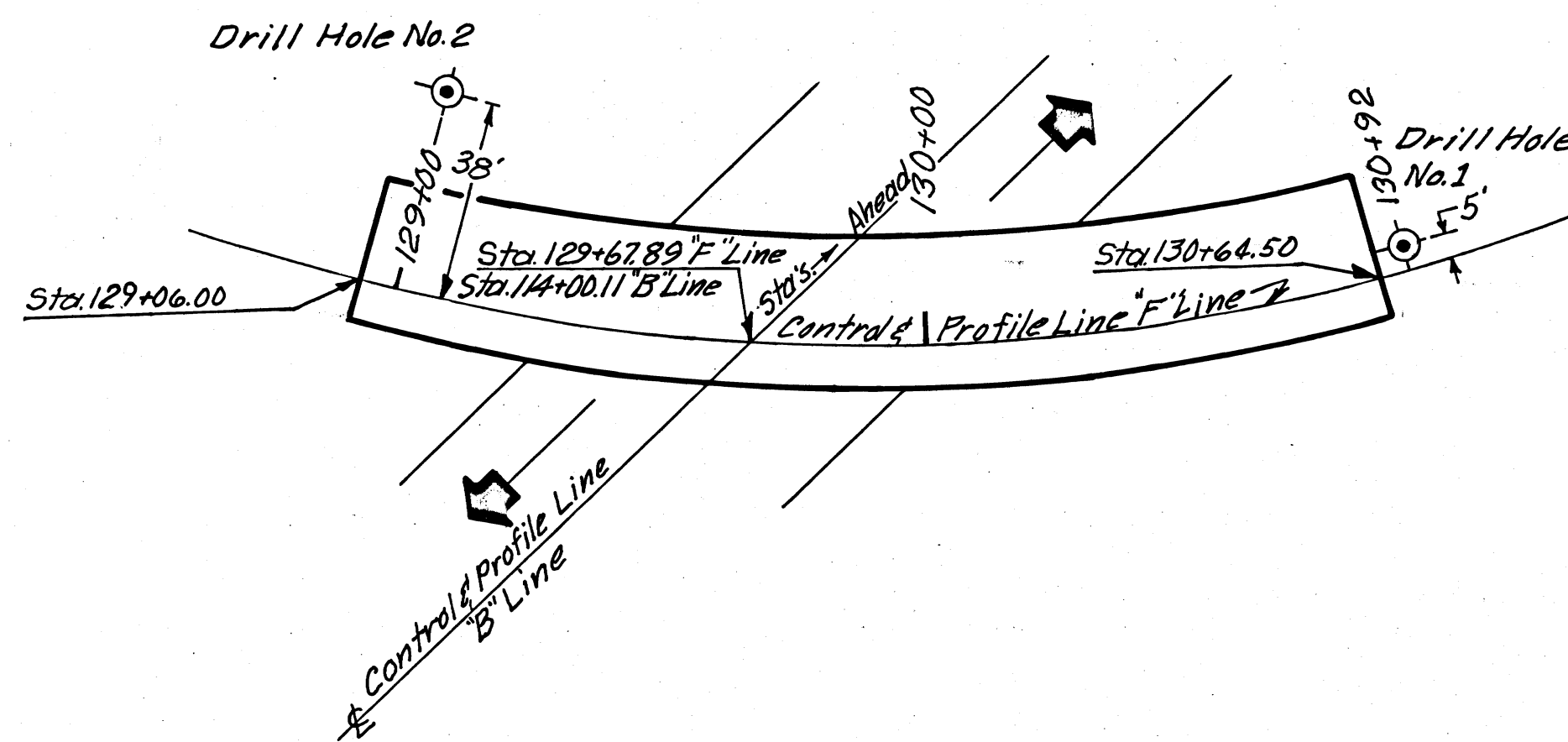
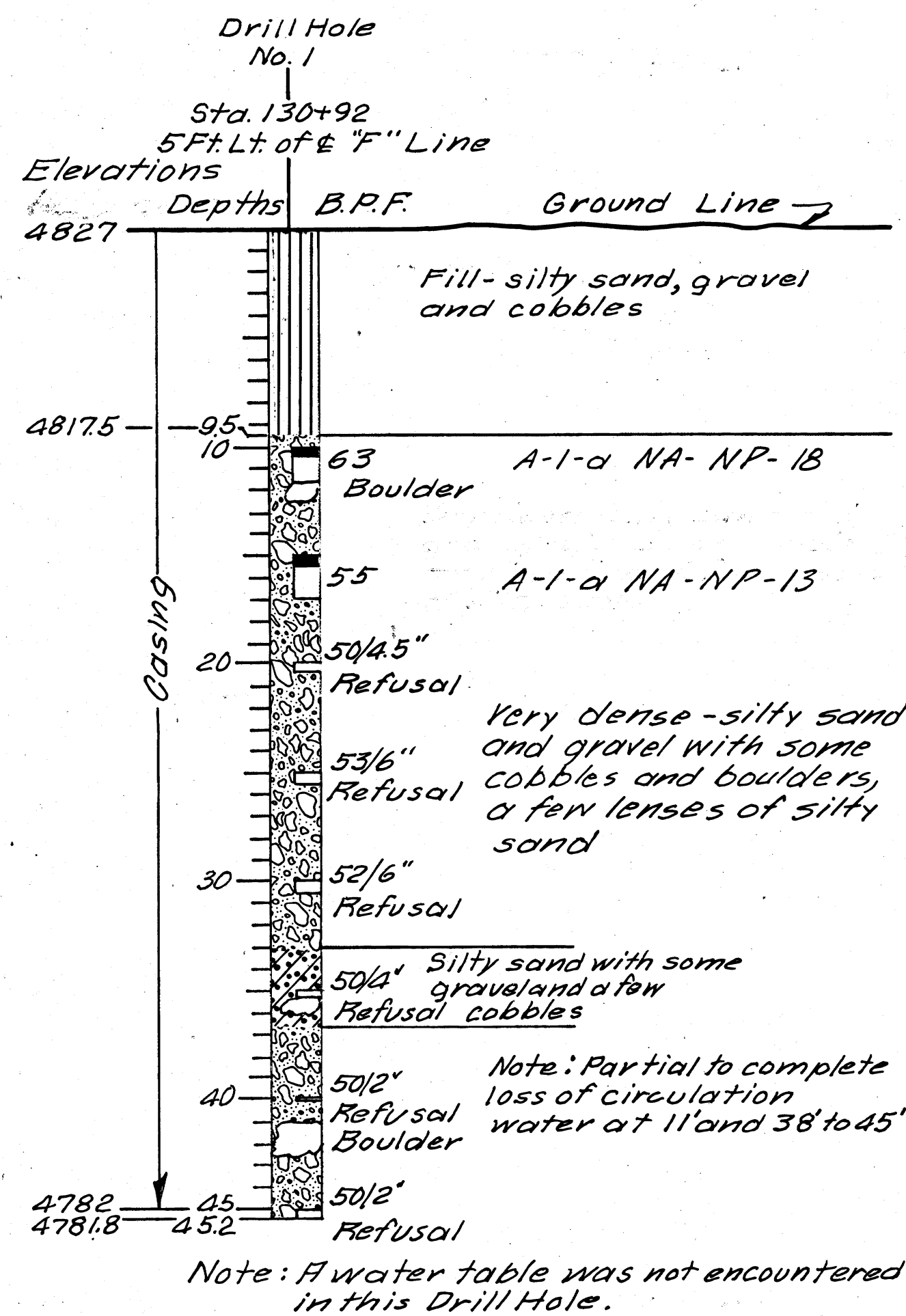
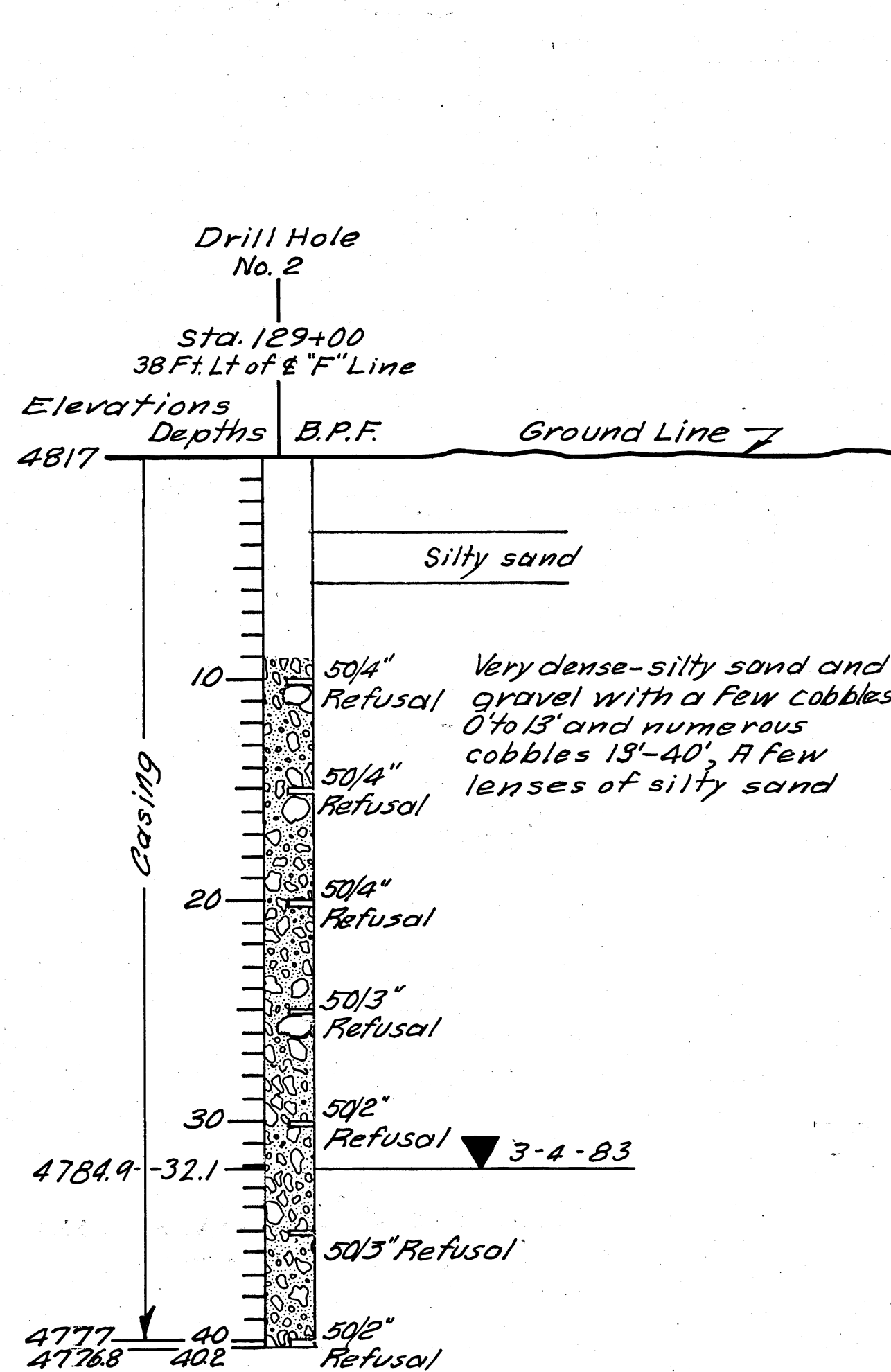
DESIGN DATA

HS 20-44 or Interstate Alternate Loading in accordance with AASHTO Specifications of 1977 and Interim Specifications.
Cast-In-Place Concrete: $f_c = 1400$ psi, f_s (Reinf.) = 24,000 psi, $n = 8$
Structural Steel: $f_s = 27,000$ psi
Wearing Surface: 1/2" Concrete, 35 lbs./sq. ft. Future Wearing Surface.
Design Speed: 50 M.P.H. "B" Line; 30 M.P.H. "F" Line

QUANTITIES

ITEM	ESTIMATED	UNIT	AS CONST.
Concrete Class AA(AE) (Est. Quant. 453 Cu.Yds.)	1	Lump	
Reinforcing Steel	60,056	Lbs.	
Reinforcing Steel (Epoxy Coated)	37,363	Lbs.	
Structural Steel (Est. Quant. 377,065 Lbs.)	1	Lump	
Granular Backfill Borrow	207	Cu.Yds.	

UTAH DEPARTMENT OF TRANSPORTATION SALT LAKE CITY, UTAH STRUCTURES DIVISION 800 NORTH, OREM U.S.-89 TO U.S.-189 "F" LINE OVER "B" LINE SITUATION AND LAYOUT			
DESIGN M.O. 7-82	CHECK JWG 12-2-83	129+67.89 F' Line	
DRAWN 7-16-82	CHECK WMB 8-24-82		
QUANT. 8-31-83	CHECK M.P.P. 8/31/83		
APPROVAL 9-16-83	CHECK JWG 9/16/83		
APPROVED 12/1/83	CHECK JWG 12/1/83		
F-019(25)		C-728	
PROJECT NUMBER		SHT. 1 OF 14	



KEY TO DRILLING LOG

RELATIVE DENSITY (NON-PLASTIC SAND & SILT)

VERY LOOSE - LESS THAN 4 BLOWS PER FOOT.
LOOSE - 4 TO 10 BLOWS PER FOOT.
MEDIUM - 10 TO 30 BLOWS PER FOOT.
DENSE - 30 TO 50 BLOWS PER FOOT.
VERY DENSE - MORE THAN 50 BLOWS PER FOOT.

CONSISTENCY (PLASTIC-SILT & CLAY)

VERY SOFT - LESS THAN 2 BLOWS PER FOOT.
SOFT - 2 TO 4 BLOWS PER FOOT.
MEDIUM - 4 TO 8 BLOWS PER FOOT.
STIFF - 8 TO 15 BLOWS PER FOOT.
VERY STIFF - 15 TO 30 BLOWS PER FOOT.
HARD - MORE THAN 30 BLOWS PER FOOT.

TOPSOIL OR FILL	IGNEOUS	SANDY CLAY
GRAVEL	LIMESTONE	CLAYEY SAND
SAND	CONGLOMERATE	SILTY CLAY
SILT	DOLOMITE	CLAYEY SILT
CLAY	SANDSTONE	SILTY SAND
SHALE	SILTSTONE	SANDY SILT

DRILL HOLE NO.	STATION	0+00 E OR LT. OR RT. IN FT. OFFSET.
ELEVATIONS	B.P.F.	
GROUND ELEVATION	DEPTHS	GROUND LINE
EXAMPLE:	2	soft-silty clay, some fine sand
4555	5	AASHTO LL-PI-W A-6(9) 37-14-30
GROUND WATER TABLE	4552	DATE
STRATA CHANGE	4546	THIN WALL SHELBY TUBE, UNDISTURBED SAMPLER USED.
LOCATION OF SAMPLE	20	R SPLIT BARREL UNDISTURBED SAMPLER WITH LINER RINGS OR CALIFORNIA TYPE SAMPLER
SAMPLE NOT RECOVERED	25	REASON NOT RECOVERED
BOTTOM OF HOLE	4531	
NO. OF BLOWS OF A 140 LB. HAMMER FALLING 30 INCHES REQUIRED TO DRIVE A STD. 1 1/4" ID, 2" O.D. SAMPLE TUBE 1 FT.		

ABBREVIATIONS

L.L. - LIQUID LIMIT IN %
P.I. - PLASTIC INDEX
W. - NATURAL MOISTURE CONTENT IN %
Ref. - REFUSAL ≥ 50 BLOWS PER 6"
PEN - PENETRATION
G.W.T. - GROUND WATER TABLE
B.P.F. - BLOWS PER FOOT.
N.P. - NON PLASTIC
AASHTO - SOIL CLASSIFICATION SYSTEM

UTAH STATE DEPARTMENT OF TRANSPORTATION SALT LAKE CITY, UTAH	
MATERIALS and RESEARCH SECTION	
800 NORTH, OREM	
"F" LINE OVER "B" LINE	
SOIL DATA	
Drawn By BCS 3/17/83	Checked By F-019 (25)
Checked By R. Sizemore	Checked By D. K. Powell
Checked By M. B. Smith	Checked By S. L. Smith
Approval Recommended By L. H. P. Rauscher	Station 129+67.89 "F" Line
Received Date	UTAH County
Foundations File No. 82-7-FS-28	
Dr. No. C-728	
2 of 14	

Date Drilled: Feb, 1983

NO.	BY	DATE

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UTAH DEPARTMENT OF TRANSPORTATION
SALT LAKE CITY, UTAH
STRUCTURES DIVISION
800 NORTH, OREM U.S.-89 TO U.S.-189
"F" LINE OVER "B" LINE
SITUATION AND LAYOUT

DESIGN	M.O. 7-82	CHECK	JWG 12-2-83	129+67.89 "F" Line
DRAWN	D 7-16-82	CHECK	HMB 8-24-83	
QUANT	D 8-31-83	CHECK	M.R.P. 8/31/83	
APPROVAL RECOMM.	9-16-83	DATE	GROUP LEADER	
APPROVED	12/2/83	DATE	CHIEF STRUCTURAL ENGINEER	STATION UTAH COUNTY
F-019(25)				DRG. NO. C-728
PROJECT NUMBER				SHT. 1 OF 14

NO.	BY	DATE	REMARKS
REVISIONS			

Auth. 5710 CPM 1510

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