INDIANA DEPARTMENT OF TRANSPORTATION

BRIDGE REHABILITATION PLANS

FOR SPANS OVER 20 FEET

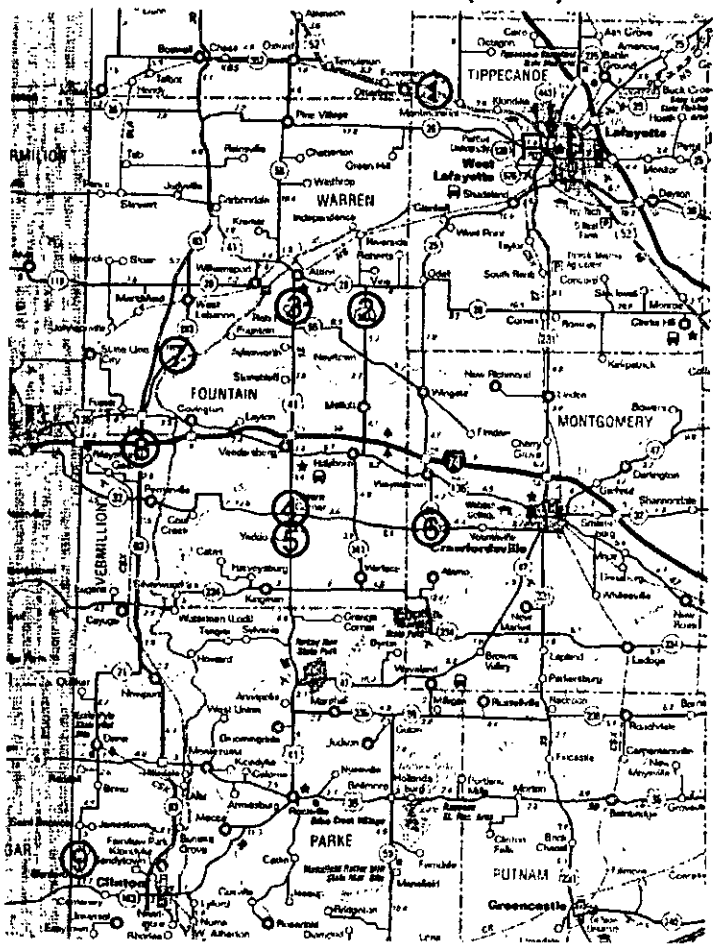
ROUTE: Various AT: RP (see index)

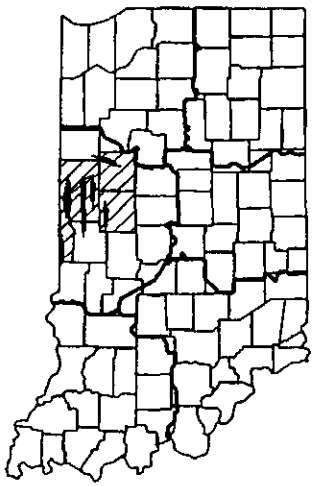
PROJECT NO. ST-9999(OBC) CONST.

INDEX

Structure No.	Type	Span	Skew	Over	RP	Map ID
52-79-3601A	RC Arch Under Fill	30'-0"	10° Left	Little Pine Creek	35+063	1
341-23-4027B	Cont. RC Slab	30'-0", 3 @ 42'-0", 30'-0"	20° Right	Big Shawnee Creek	21+022	2
41-23-3887B	RC Arch	2 @ 50'-0"	None	Big Shawnee Creek	171+013	3
41-23-3738B	Steel Beam	60'-0"	45° Left	Prairie Creek	157+066	4
41-23-3930D	RC Slab	28'-0"	None	Mill Creek	155+031	5
25-54-3500B	Cont. RC Slab	32'-6", 45'-6", 32'-6"	None	East Fork of Coal Creek	4+084	6
(263)63-86-6495B	RC Slab	20'-0"	30° Right	Hall Branch	4+098	7
63-83-4415D SBL	Cont. Comp. Steel Beam	51'-0", 75'-3", 2 @ 100'-0"	7°47' Left	I-74 & Spring Creek	78+031	8
63-83-4415JA NBL	Cont. Comp Steel Beam	45'-0", 81'-3", 100'-0", 81'-3", 33'-0"	7°47' Left	I-74 & Spring Creek	78+031	8
71-83-5835B	Cont. P. Conc. Box Beam	54'-9", 2 @ 55'-6", 54'-9"	15° Right	Brouillets Creek	1+015	9

SHEET NO.	SUBJECT
1	INDEX AND TITLE SHEET
2 - 3	GENERAL NOTES & SITE SPECIFIC NOTES
4	52-79-3601A (STRUCTURE # 1) DETAILS
5	341-23-4027B (STRUCTURE #2) DETAILS
6	41-23-3887B (STRUCTURE #3) DETAILS
7	41-23-3738B (STRUCTURE #4) DETAILS
8	41-23-3930D (STRUCTURE #5) DETAILS
9	25-54-3500B (STRUCTURE #6) DETAILS
10	(263)63-86-6495B (STRUCTURE #7) DETAILS
11	63-83-4415D & JA (STRUCTURE #8) DETAILS
12 - 13	71-83-5835B (STRUCTURE #10) DETAILS
14	SUMMARY





PROJECT LOCATIONS SHOWN BY —

Structure No.	Latitude	Longitude
52-79-3601A	40°29'06"	87°03'30"
341-23-4027B	40°15'30"	87°08'54"
41-23-3887B	40°14'30"	87°14'36"
41-23-3738B	40°02'48"	87°14'36"
41-23-3930D	40°00'42"	87°14'36"
25-54-3500B	40°05'18"	87°04'06"
(263)63-86-6495B	40°12'24"	87°23'54"
63-83-4415D SBL	40°07'12"	87°27'12"
63-83-4415JA NBL	40°07'12"	87°27'12"
71-83-5835B	39°40'54"	87°31'18"

PLACEMENT OF SCOUR MITIGATION MEASURES AT VARIOUS LOCATIONS IN THE CRAWFORDSVILLE DISTRICT

INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED 1999 TO BE USED WITH THESE PLANS

NO ADDITIONAL RIGHT-OF-WAY REQUIRED FOR THIS PROJECT.

JAMES E. REILMAN
REGISTERED
No. 10000087
STATE OF INDIANA
PROFESSIONAL ENGINEER

PLANS PREPARED BY: Jim Reilman, P.E. (317) 232-5157 PHONE NUMBER

CERTIFIED BY: James E. Reilman 7/21/04 DATE

APPROVED FOR LETTING: 8/3/04 DATE
CHIEF, DIVISION OF DESIGN

Bridge File:	See Index
Des No:	0101276
Contract No:	B-27703
Project No:	ST-9999(OBC)
Sheet:	1 of 14

Contract No. B-27703

B-27703

General Notes

1. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR EXCAVATE BELOW THE TOP OF THE FOOTING.

2. The intent of the outlined work is to place the riprap such that the top of the riprap is even with the ground line. However, do not excavate below the top of the footing.

3. The cost of excavation for riprap placement shall be included in the cost of the riprap pay items. Excavation on Structure Numbers 1 and 2 (for channel clearing) shall be paid as waterway excavation.

4. The term "Top Dress Existing Riprap" is intended to mean the Contractor shall supplement the existing riprap by placing the type of riprap specified to the height specified above the existing riprap.

Structure Specific Notes

Structure No. 1 (52-79-3601) The Contractor may encounter the top of the footings. The plan excavation is within 1 foot of the top of footing elevation.

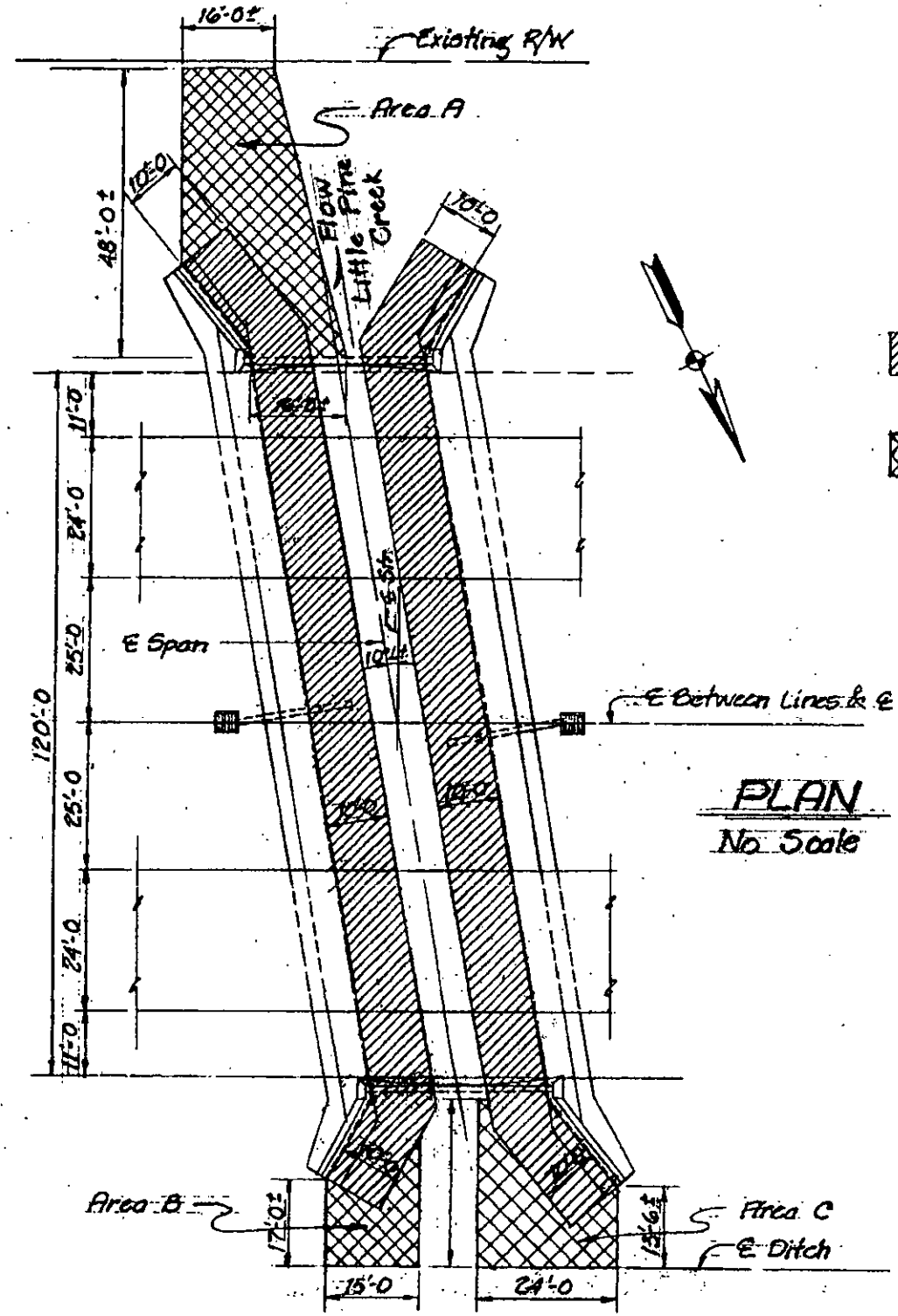
Structure Nos. 2 (341-23-4027) & 9 (71-83-5835) The Contractor may encounter the top of the footings at Pier Nos. 3 & 4. The plan excavation is within 1 foot of the top of footing elevation.

Structure Nos. 3 (41-23-3887) & 5 (41-23-3930) Based on field measurements of ground spot elevations taken March 1, 2004, the Contractor most likely will encounter the top of the footings.

Structure Nos. 4 (41-23-3738) & 6 (25-54-3500) Based on field measurements of ground spot elevations taken March 1, 2004, the Contractor should not encounter the top of the footings.

Structure No. 7 ((263)63-86-6495) No existing design plans showing substructure details are available as this structure was not originally constructed by the State.

Structure No. 8 (63-83-4415) The Contractor may encounter the top of the footings at Pier Numbers 2 & 3 on both the northbound and southbound structure.



Class II Riprap

Excavate to Flow Line El. 679.9
Paid as Waterway Excavation
Area (A) Est. Qty. 110 Cys.
Area (B) Est. Qty. 25 Cys.
Area (C) Est. Qty. 47 Cys.

PLAN
No Scale

PREPARED BY: J.E. REILMAN
DRAWN BY: C.Z. UNTALAN
DES. NO. 9101276

INDIANA DEPT. OF TRANSPORTATION
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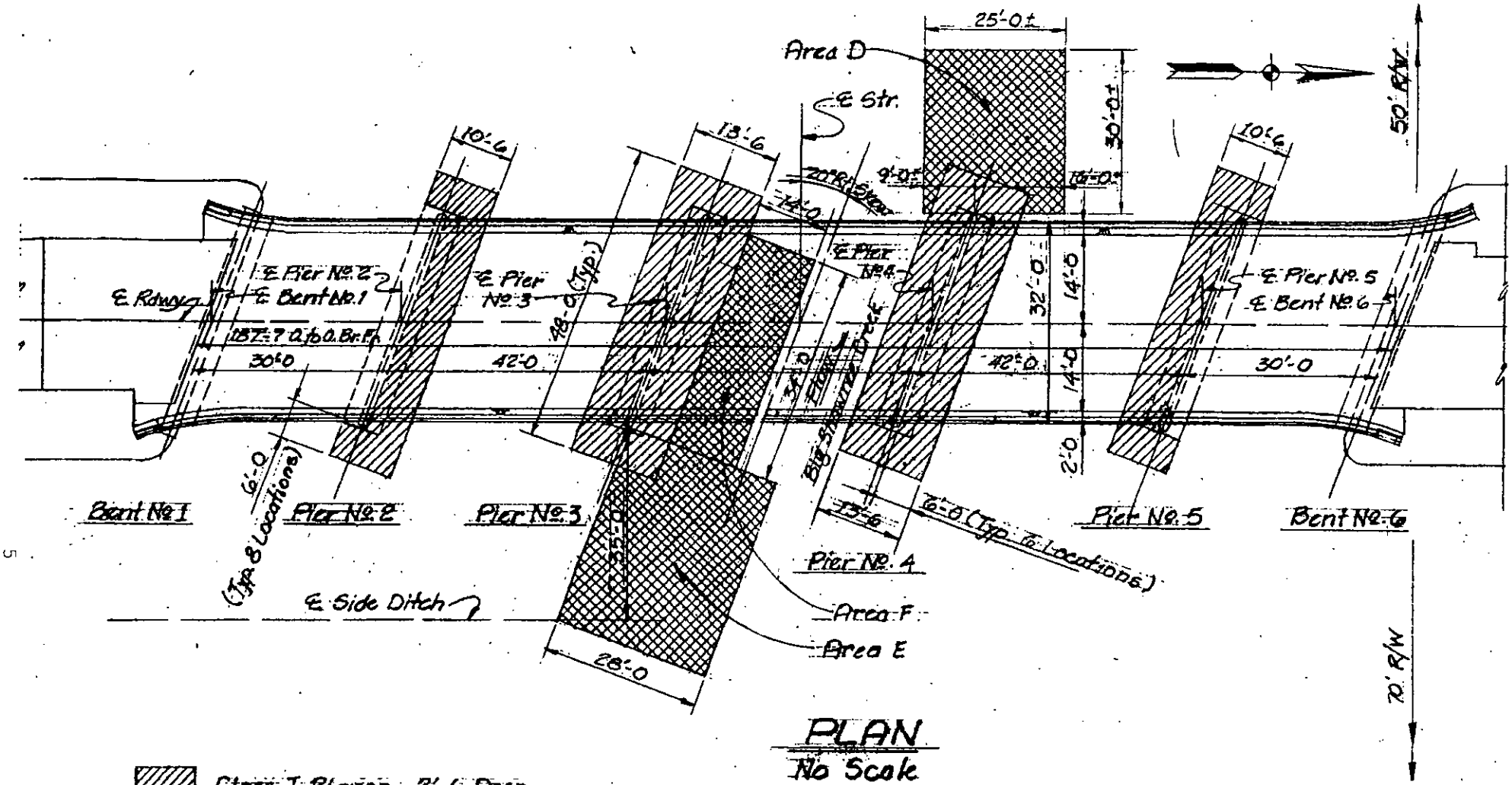
CONTRACT NO: B-27703
BRIDGE FILE: 52-79-3601A

Contract No. B-27703



PLAN
No Scale

Class I Riprap, 2'-6 Deep

Area (D) Excavate 3'-0 Deep. Est. Qty. = 84 Cys.
Paid as Waterway Excavation.

Area (E) Excavate 2'-0 Deep. Est. Qty. = 73 Cys.
Paid as Waterway Excavation.

Area (F) Excavate 1'-6 Deep. Est. Qty. = 27 Cys.
Paid as Waterway Excavation.

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INDIANA DEPT. OF TRANSPORTATION
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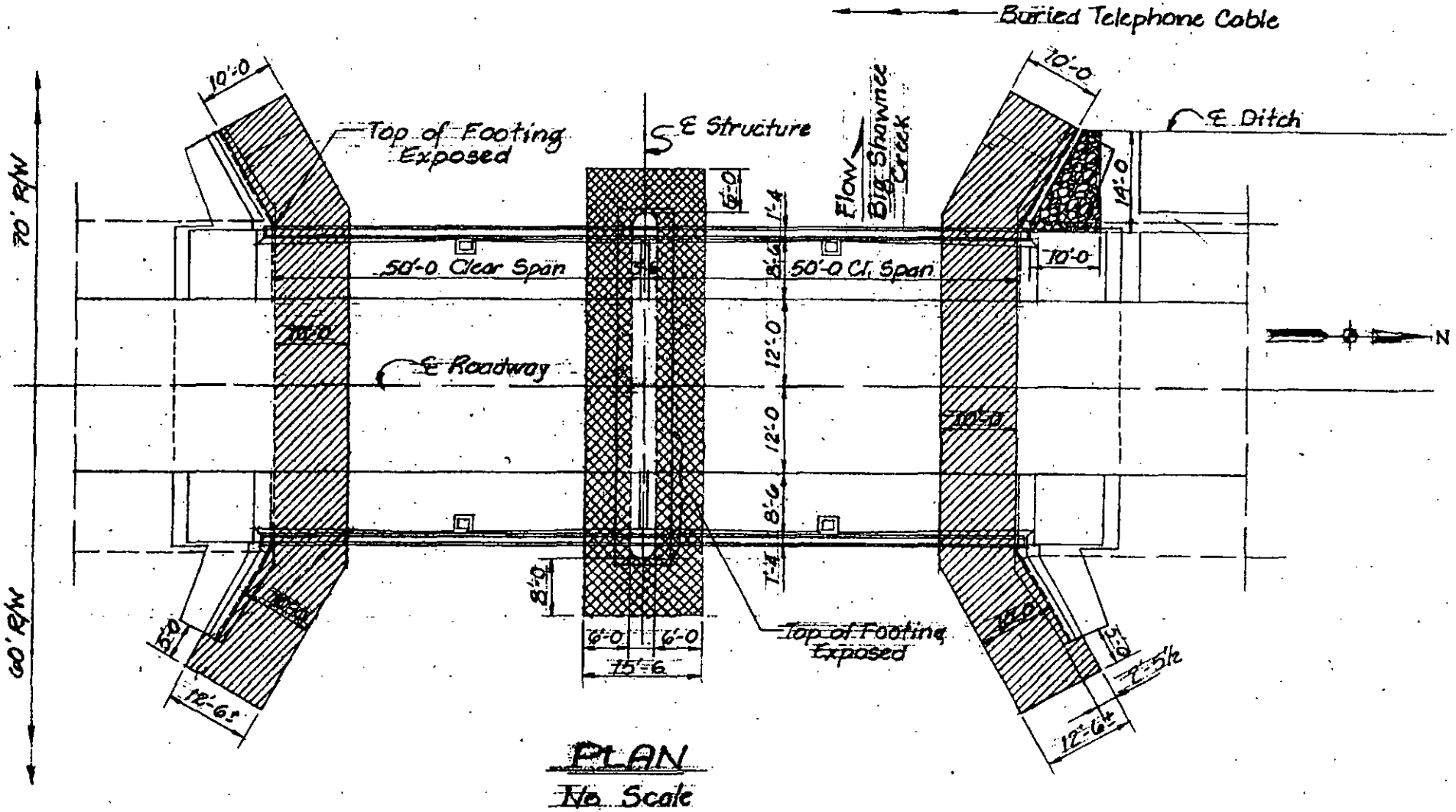
CONTRACT NO. B-27703
BRIDGE FILE: 341-23-4027 B



PLAN
No Scale

Class I Riprap, 2'-0 Deep

Class I Riprap, 3'-0 Deep

Revetment Riprap, 18'-0 Deep

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INDIANA DEPT. OF TRANSPORTATION
SHEET 6 OF 14
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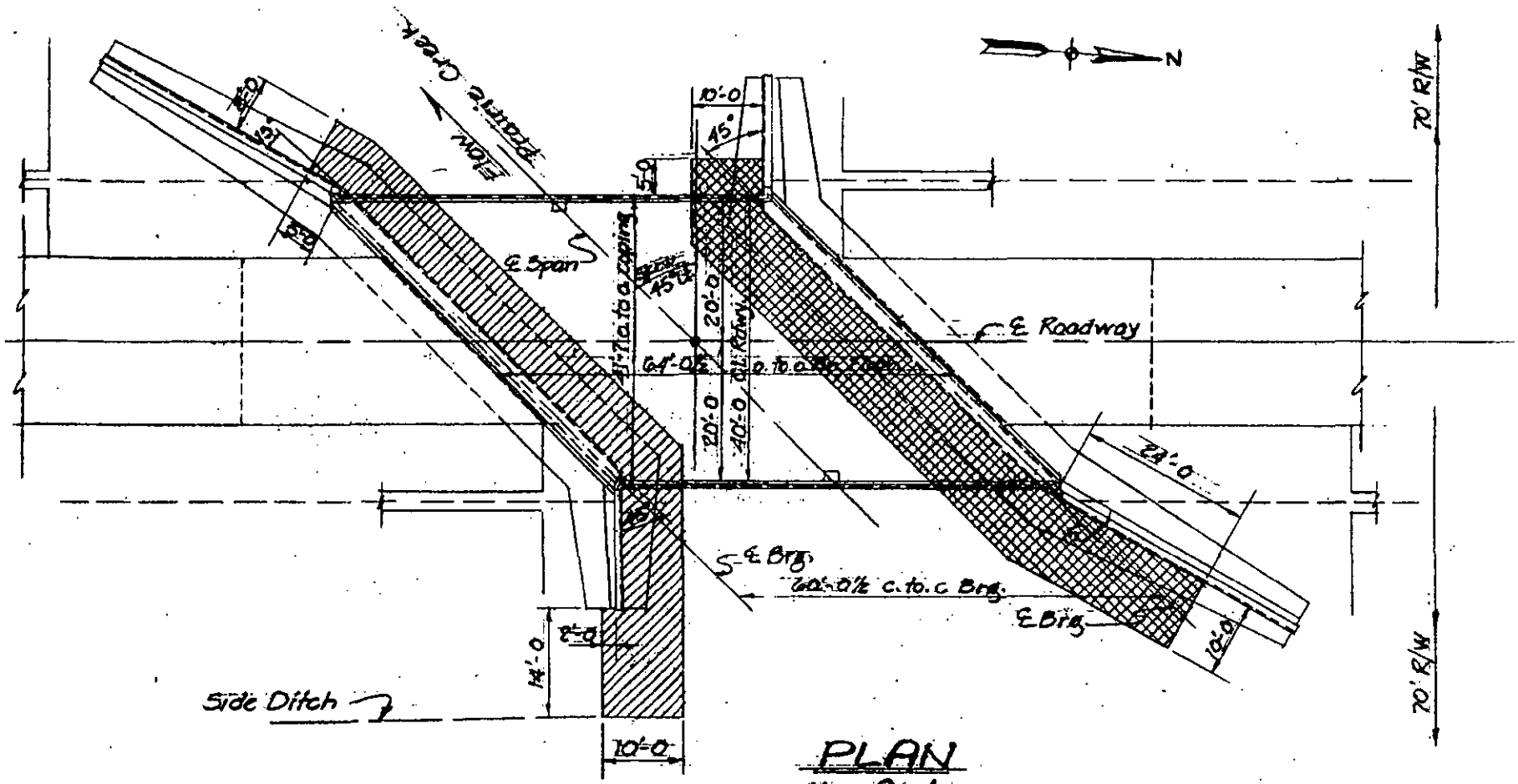
CONTRACT NO.: B-27703
BRIDGE FILE: 41-23-3887 B

Contract No. B-27703



PLAN
No Scale

Top Dress Existing Riprap with Class II Riprap, 2'-6 Thick.

Excavate 3'-6 below Weep Hole Elevation and place Class II Riprap, 2'-6 Thick.
(Cost of Excavation to be included in cost of Riprap)

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DRAWN BY: C.Z. UNTALAN
DES. NO. 0101276

INDIANA DEPT. OF TRANSPORTATION

SHEET 7 OF 14
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CONTRACT NO.: B-27703
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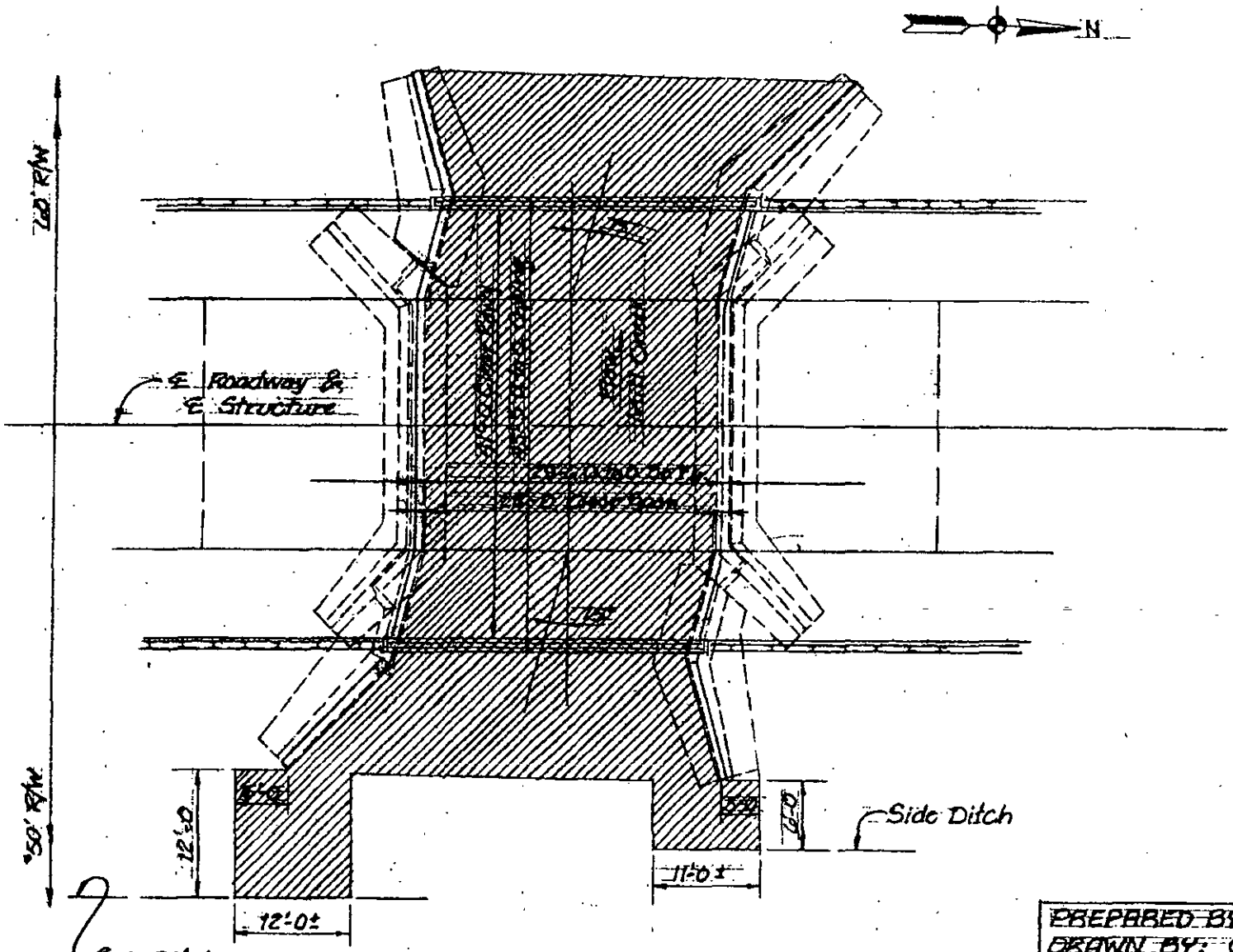
Contract No. B-27703



PLAN

No Scale

Class I Riprap, 2'-0 Deep
(Plan Area for Riprap = 2,268 SFT.)

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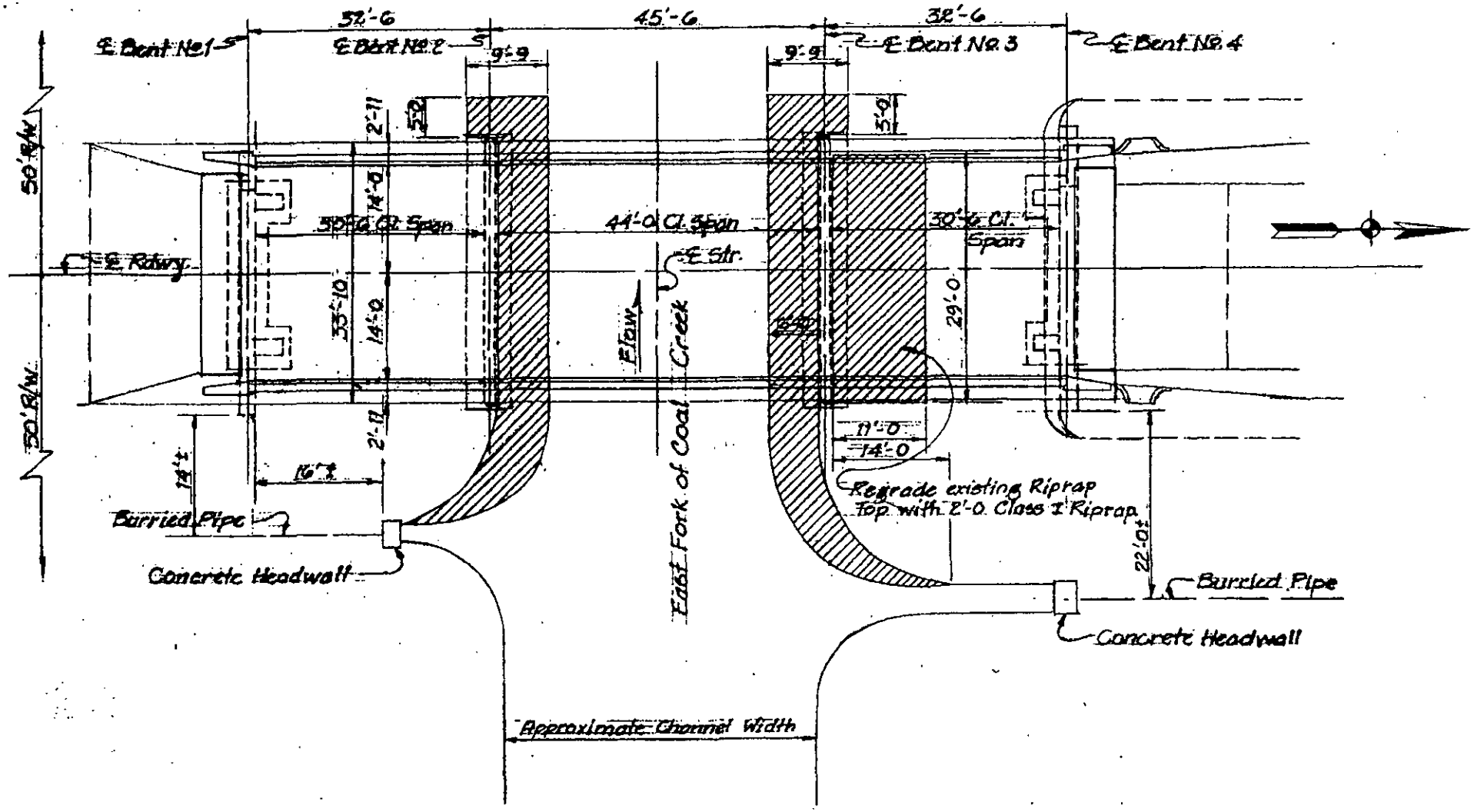
DRAWN BY: C.Z. UNTELAN
DES. NO. 0101276

INDIANA DEPT. OF TRANSPORTATION

SHEET 8 OF 14
PROJECT NO.: ST-9999 (OBC)
CONTRACT NO.: B-27703
BRIDGE FILE: 41-25-3930D

Contract No. B-27703



PLAN

No Scale

Class I Riprap, 3'-0 Deep

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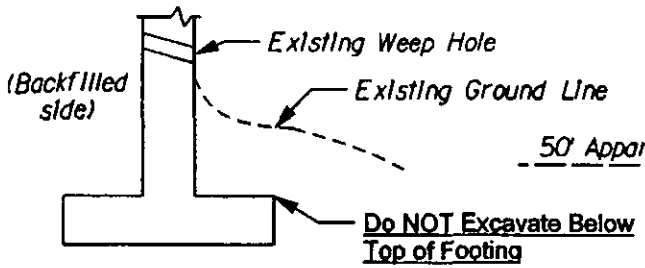
DRAWN BY: C.Z. UNTALAN
DES. NO. 0101276

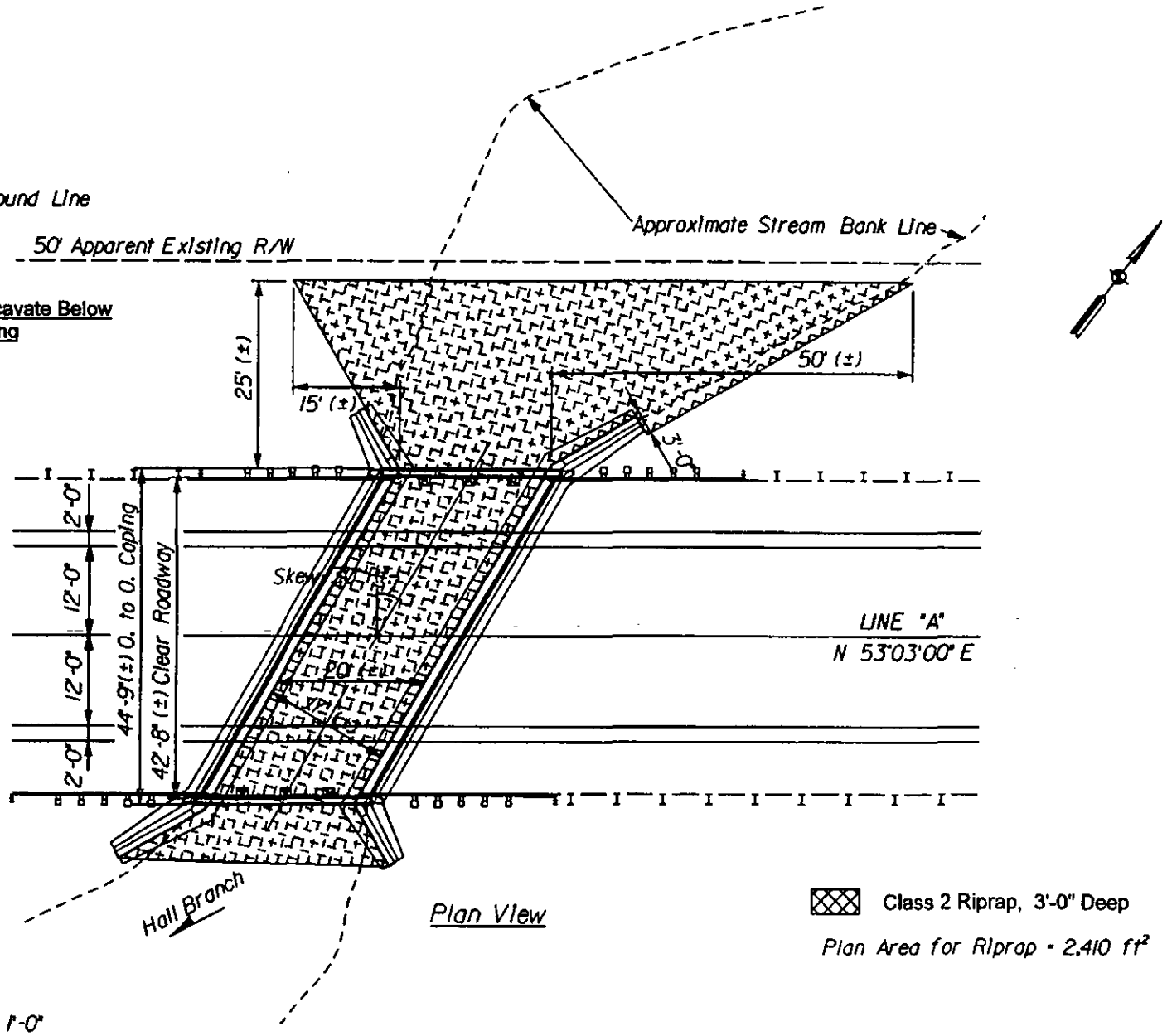
INDIANA DEPT. OF TRANSPORTATION

SHEET 9 OF 14
PROJECT NO.: ST-9999 (08C)
CONTRACT NO.: 27703
BRIDGE FILE: 25-54-3500 B

Contract No. B-27703



Section Through Abutment
No Scale



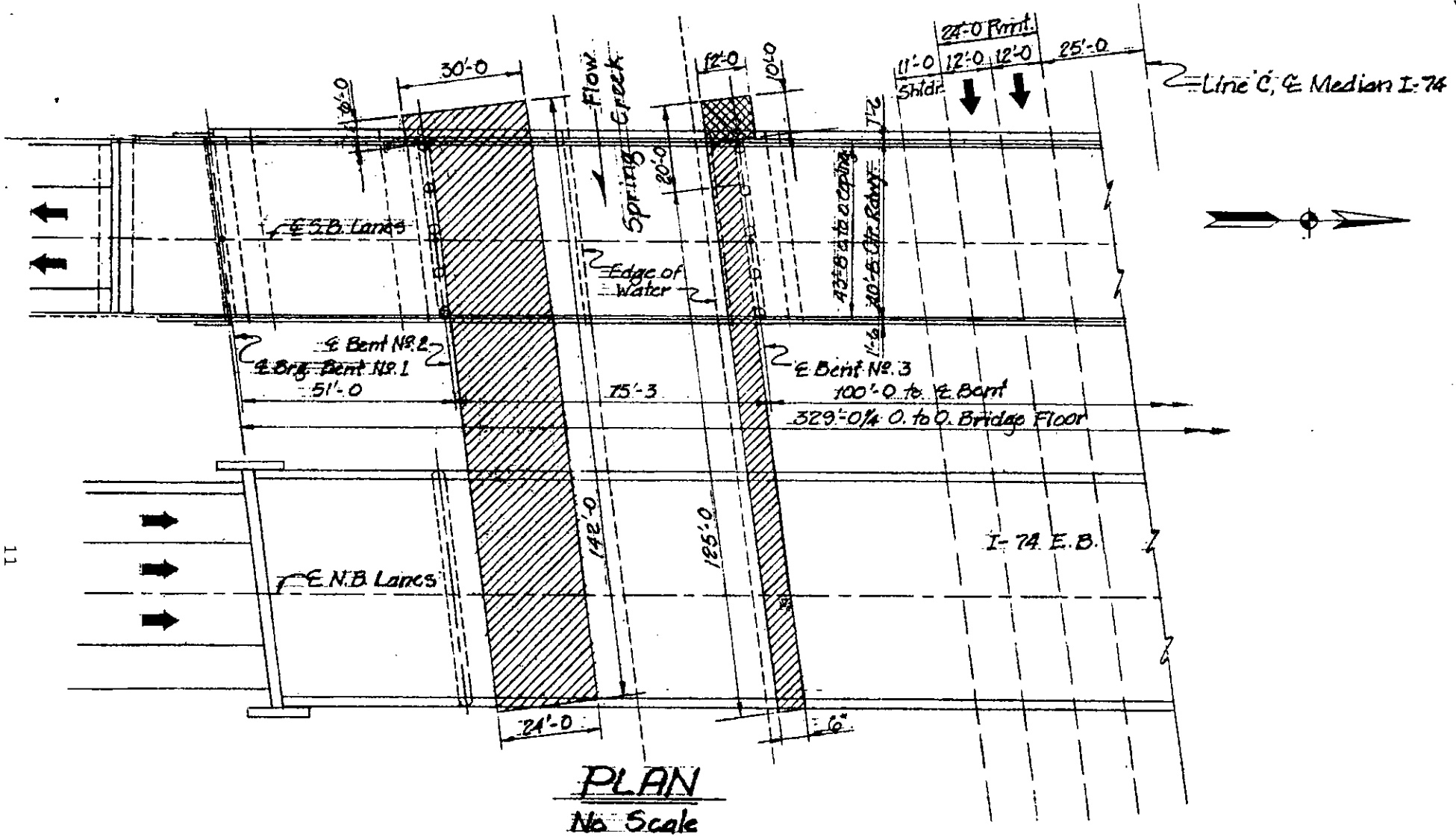
Plan View

Class 2 Riprap, 3'-0" Deep

Plan Area for Riprap = 2,410 ft²

Scale: 3/64" = 1'-0"

DESIGNED: Reilman 3/2004	DRAWN: Reilman 3/2004	INDIANA DEPARTMENT OF TRANSPORTATION	Bridge File: (263)63-86-6495B
CHECKED: Karr 4/2004	CHECKED: Karr 4/2004	(263)63-86-6495B	Des No: 0101276
			Contract No: B-27703
			Project No: ST-9999(08C)
			Sheet: 10 of 14



PLAN
No Scale

Top Dress with Class I Riprap 1'-6 Deep

Class I Riprap, 3'-0 Deep

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INDIANA DEPT. OF TRANSPORTATION

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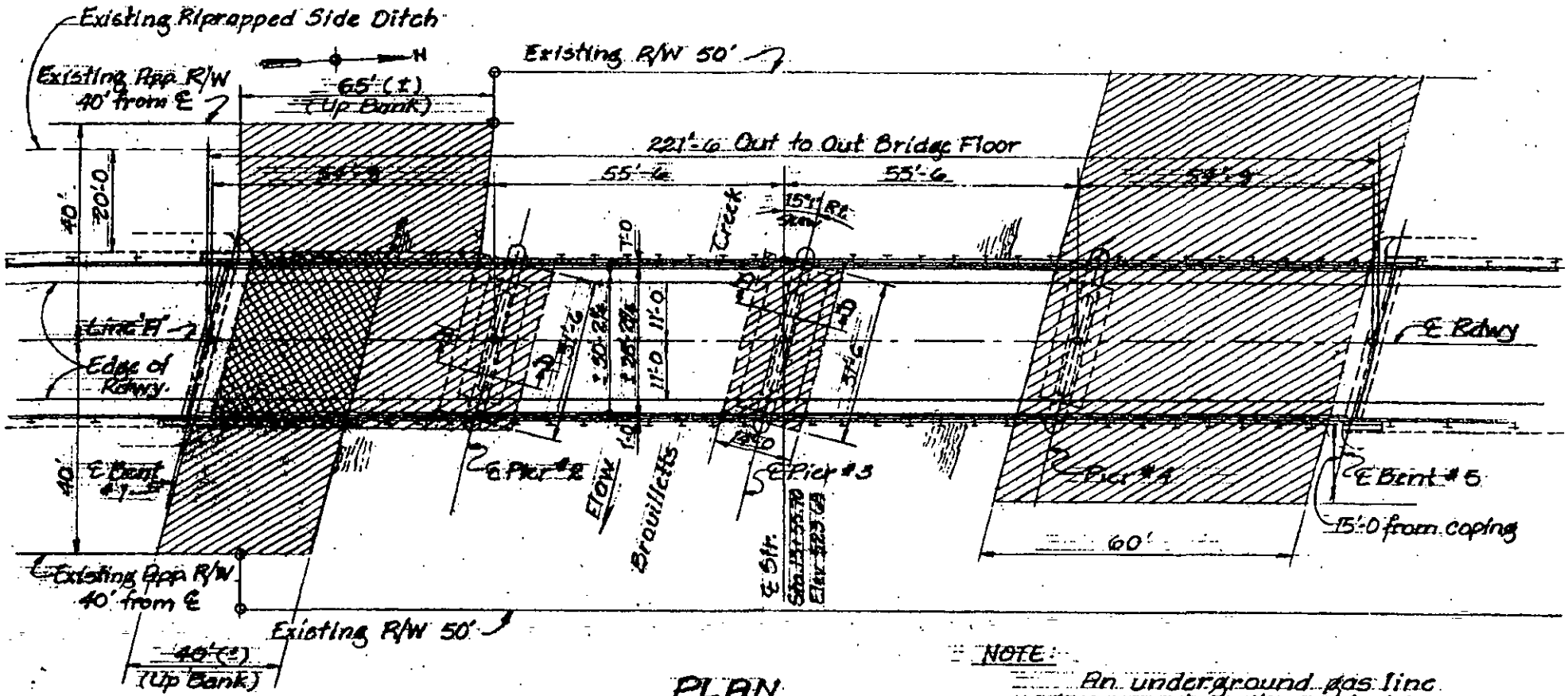
BRIDGE FILE: 63-83-4415 D&JA

Contract No. B-27703



PLAN
No Scale

NOTE:
An underground gas line is present on the east side of the structure. Vectren (Indiana Gas Co.) 1-800-666-5895

CLASS I RIPRAP, 3'-0 DEEP (GEOTEXTILES ON BANKS AND SPILL SLOPE ONLY)

EXISTING RIPRAP, TOP WITH 18" REVETMENT RIPRAP

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DRAWN BY: C. Z. UNTALAN
DES. NO. 0101276

INDIANA DEPT. OF TRANSPORTATION
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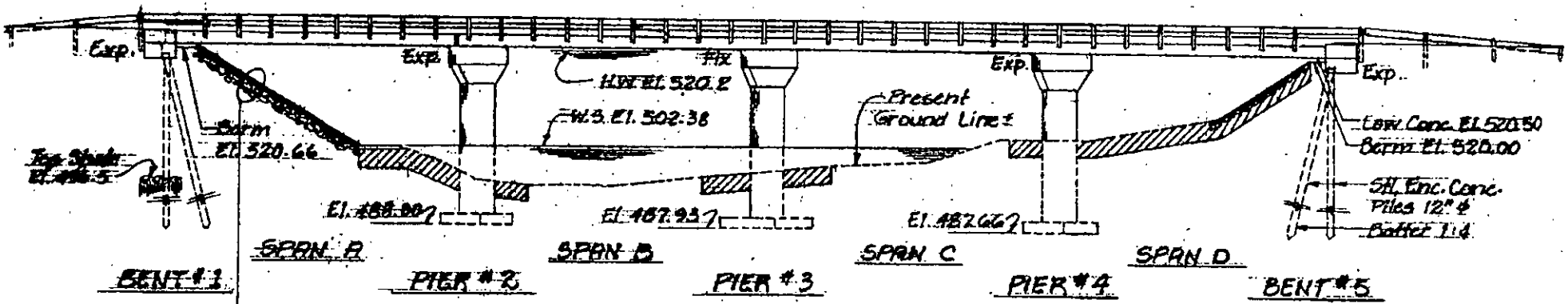
BRIDGE FILE: 71-83-5835 B

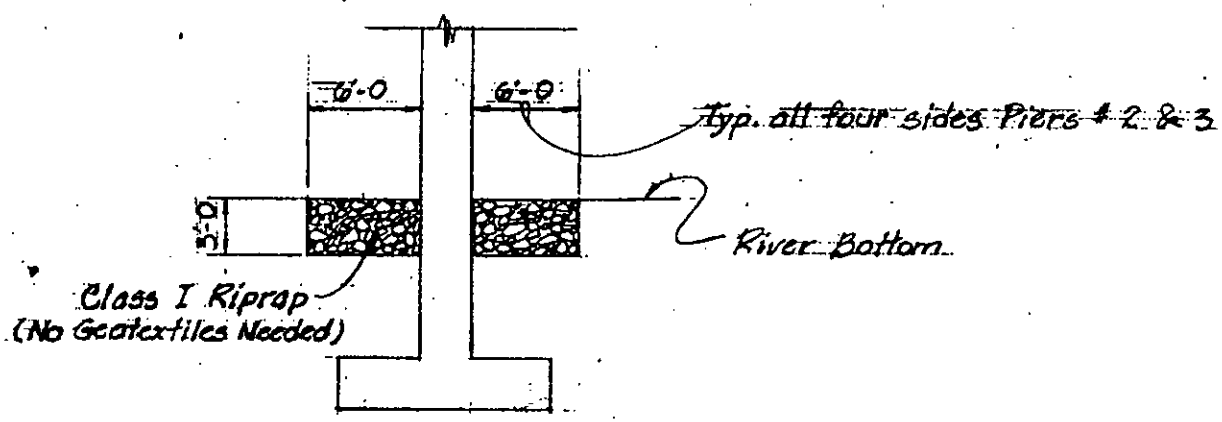
Structure built on a -0.30% grade



ELEVATION

No Scale

Class I Riprap, 3'-0 Deep (Geotextiles on Banks and Spill Slope only).



SECTION A-A

No Scale

TYPICAL PIER #2 and PIER #3

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DES. NO. 0101276

INDIANA DEPT. OF TRANSPORTATION

SHEET 13 OF 14
PROJECT NO.: ST-2999 (OBC)
CONTRACT NO. B-27703
BRIDGE FILE: 71-88-5835 B

Contract No. B-27703

BRIDGE SUMMARY

LOCATION													RIPRAP								
BRIDGE				ACTUAL LENGTH	CUT OFF WALLS (8 ft EQUIVAL. LENGTH EACH)	LUGS (8 ft EQUIVAL. LENGTH EACH)		MULCHED SEEDING, R		EXCAVATION, WATERWAY		REVETMENT RIPRAP	CLASS I RIPRAP	CLASS 2 RIPRAP	GEOTEXTILES	BREAKING CONCRETE SLOPEWALL			CONSTRUCTION SIGN, TYPE A	CONSTRUCTION SIGN, TYPE B	
				ft	EACH	EACH		yd^2		yd^3		Ton	Ton	Ton	yd^2	yd^2			EACH	EACH	
Structure No. 1																					
Little Pine Creek										182				461					8	8	
Structure No. 2																					
SR 341 - Big Shawnee Cr.										184			262						4	4	
Structure No. 3																					
US 41 - Big Shawnee Cr.												6	321						4	4	
Structure No. 4																					
Prairie Creek														237					4	4	
Structure No. 5																					
Mill Creek													255						4	4	
Structure No. 6																					
East Fork of Coal Creek													151						6	5	
Structure No. 7																					
Halls Branch														407					4	4	
Structure No. 8																					
Spring Creek													385						8	8	
Structure No. 9																					
Brouilletts Creek												102	1563		251				4	4	
Totals								2,000		366		108	2,937	1,105	251				46	45	

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