CONTRACT No. B-18986

BRIDGES OVER 20' SPAN					
FEDERAL REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	MG-W940(2)	1987	1	80

INDEX

PROJECT	STRUCTURE	TYPE	SPAN	OVER	STATION
MG-W940 (2)	GIBSON 10288	PRECAST PRESTRESSED CONCRETE BOX BEAM	1 SPAN @ 65'-2 SKEW-15° RT.	SOUTHERN RAILWAY	15+81.5834, LINE "A"

SHEET NO	SHEET DESIGNATION	SUBJECT	F.H.W.A. APPROVAL
1	ONE SHEET	INDEX & TITLE SHEET	
2-3	TWO SHEETS	TYPICAL CROSS SECTION	
4	ONE SHEET	EROSION CONTROL	
5	ONE SHEET	TRAFFIC CONTROL PLAN	
6	ONE SHEET	PLAT NO. 1	
7-9	THREE SHEETS	ROAD PLAN & PROFILE	
10-13	FOUR SHEETS	ROAD DETAIL	
14	ONE SHEET	SOIL BORINGS	
15-16	TWO SHEETS	STONE COLUMN & WICK DRAIN DETAIL	
17	C1	LAYOUT	
18	C2	LAYOUT	
19	C3	GENERAL PLAN	
20	C4	BENT NO. 1 & NO. 2 DETAILS AND BILL OF MATERIALS	
21-22	C5, C6	SUPERSTRUCTURE DETAILS	
23	C7	SUPERSTRUCTURE DETAILS AND BILL OF MATERIALS	
24-25	TWO SHEETS	REINFORCED CONCRETE BARRIER RAIL DETAILS	
26-26A	TWO SHEETS	BEAM DETAILS AND ERECTION PLAN	
26B-34	NINE SHEETS	REINFORCED EARTH® DETAILS	
35	ONE SHEET	SUMMARY	
36-51	SIXTEEN SHEETS	CROSS SECTIONS	

B 18986

NOTE: WHENEVER INDIANA DEPARTMENT OF HIGHWAYS APPEARS IN THESE PLANS OR CONTRACT DOCUMENTS IT SHALL BE INTERPRETED AS INDIANA DEPARTMENT OF TRANSPORTATION.

NOTE: WHENEVER M A MG-W940 (2) APPEARS IN THESE PLANS OR CONTRACT DOCUMENTS IT SHALL BE INTERPRETED AS MG-W940 (2)

INDIANA DEPARTMENT OF TRANSPORTATION

BRIDGE PLANS

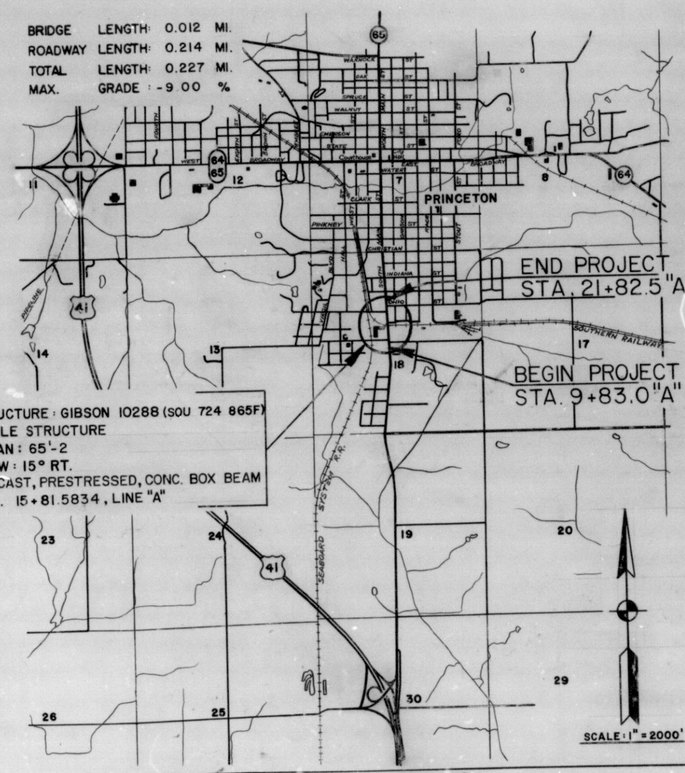
FOR SPANS OVER 20 FEET ON OLD U.S. 41 (S. MAIN ST.)

PROJECT NO. MG-W940

( ) P.E.
( ) R/W
(2) CONST

BEGINNING AT A POINT ON THE CENTERLINE OF OLD U.S. 41 (S. MAIN ST.), APPROXIMATELY 79.25 FT. WEST OF THE CENTER OF SECTION 18, TOWNSHIP 2 SOUTH, RANGE 10 WEST, COMMENCING SOUTHERLY ALONG SAID CENTERLINE, APPROXIMATELY 82.17 FT., TO THE SOUTH PROJECT LIMITS. THEN, PROCEEDING IN A NORTHERLY DIRECTION FROM SAID POINT, 1199.5 FT. ALONG SAID CENTERLINE OF OLD U.S. 41, TO THE NORTH PROJECT LIMITS. ALL CONTAINED IN THE CITY OF PRINCETON, PATOKA TOWNSHIP, GIBSON COUNTY, INDIANA.

BRIDGE LENGTH: 0.012 MI.
ROADWAY LENGTH: 0.214 MI.
TOTAL LENGTH: 0.227 MI.
MAX. GRADE: -9.00 %



STRUCTURE: GIBSON 10288 (SOU 724 865F)
SINGLE STRUCTURE
1 SPAN: 65'-2
SKEW: 15° RT.
PRECAST, PRESTRESSED, CONC. BOX BEAM
STA. 15+81.5834, LINE "A"

TRAFFIC DATA	OLD U.S. 41 (S. MAIN ST.)
A.D.T. (1990)	7,275 V.P.D.
A.D.T. (2010, PROJECTED)	10,810 V.P.D.
D.H.V. (2010) PROJECTED)	1,080 V.P.H.
TRUCKS	D.H.V. 5 % A.D.T. 10 %
DESIGN SPEED	30 M.P.H.
ACCESS CONTROL	NONE
FUNCTIONAL CLASSIFICATION	URBAN PRINCIPAL ARTERIAL

PLANS PREPARED BY

RICE & ASSOCIATES, INC.

BROWNSTOWN, INDIANA

APPROVED: CITY OF PRINCETON
by its BOARD OF PUBLIC WORKS & SAFETY

George B Taylor
GEORGE B. TAYLOR, MAYOR

Danny Capehart
DANNY CAPEHART, MEMBER

Jerry Patterson
JERRY PATTERSON, MEMBER

4/16/90
DATE:

CERTIFIED BY: JAMES S. RICE, P.E.
IN. P.E. NO. 19389

DATE 2-1-90

JAMES S. RICE REGISTERED NO. 19389 STATE OF INDIANA PROFESSIONAL ENGINEER

INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED 1988 TO BE USED WITH THESE PLANS.
Des. 44532

REVISIONS	
DATE	SHEET NO.
1-7-90	5
12-12-90	1, 12, 19
1-7-91	25, 35

REVISIONS	
DATE	SHEET NO.

INDEX CONTINUED
STANDARD DRAWINGS

SHEET NO.	SHEET DESIGNATION	SUBJECT	F.H.W.A. APPROVAL	ADOPTED "A" REVISION "A"
	BRIDGE STD. BR1	ALUMINUM BRIDGE RAILING		
	BRIDGE STD. BR2	ALUMINUM BRIDGE RAILING DETAILS		
	BRIDGE STD. BR3	STEEL BRIDGE RAILING		
	BRIDGE STD. BR4	STEEL BRIDGE RAILING DETAILS	1-22-87	R12-01-86
52	BRIDGE STD. BR5	RAILING CONNECTION DETAILS		
	BRIDGE STD. BR6	RAILING CONNECTION DETAILS	7-13-88	R6-01-88
53	BRIDGE STD. C1	MISCELLANEOUS DETAILS		
	BRIDGE STD. C2	MISCELLANEOUS DETAILS	1-26-88	R11-02-87
54	BRIDGE STD. C3	MISCELLANEOUS DETAILS	12-04-74	R10-29-74
54-A	BRIDGE STD. C4	MISCELLANEOUS DETAILS		
	BRIDGE STD. D	CASTING DETAILS ROADWAY DRAINS		
	BRIDGE STD. D1	ADJUSTING FRAME DETAILS FOR ROADWAY DRAINS		
	BRIDGE STD.			
	BRIDGE STD. PB	PRESTRESSED CONCRETE TYPE I-BEAMS		
	BRIDGE STD. PB	PRESTRESSED CONCRETE TYPE I-BEAMS	7-26-71	R3-1-71
55	BRIDGE STD. PB6	PRESTRESSED BOX BEAMS		
	BRIDGE STD. PB	PRESTRESSED COMPOSITE BOX BEAMS WIDE	7-26-71	R3-1-71
56	BRIDGE STD. PB9C	PRESTRESSED COMPOSITE BOX BEAMS 3' WIDE	8-14-63	A NOV.62
57	BRIDGE STD. PB10	TOLERANCES FOR FABRICATION OF PRESTRESSED BEAMS	2-3-87	R2-02-87
58	BRIDGE STD. PB11	ELASTOMERIC BEARING PAD DETAILS		
	BRIDGE STD.			
	BRIDGE STD.			
	BRIDGE STD. R2A	BRIDGE LIGHTING DETAILS		
	BRIDGE STD. R2B	BRIDGE LIGHTING DETAILS		
	BRIDGE STD. S1	MISCELLANEOUS DETAILS		
	BRIDGE STD. SH1	STEEL SHOE DETAILS		
	BRIDGE STD. T SHEET A	STANDARD TEMPORARY BRIDGE		
	BRIDGE STD. T SHEET B	STANDARD TEMPORARY BRIDGE		
	BRIDGE STD.			
	BRIDGE STD.			
	BRIDGE STD.			
	BRIDGE STD.			
59	ROAD STD. SHEET A	STANDARD PAVEMENT JOINTS	*	R 3-1-90
59-A	ROAD STD. SHEET B	STANDARD PAVEMENT JOINTS	5-1-90	R 3-1-90
60	ROAD STD. SHEET MA	MISCELLANEOUS STANDARDS	*	R 3-1-90
61	ROAD STD. SHEET MC	MISCELLANEOUS STANDARDS	1-11-89	R 9-1-88
62	ROAD STD. SHEET MC-1	MISCELLANEOUS STANDARDS	1-11-89	R 9-1-88
63	ROAD STD. SHEET MD	MISCELLANEOUS STANDARDS	12-27-82	R10-1-82
64	ROAD STD. SHEET MD-1	MISCELLANEOUS STANDARDS	12-27-82	R10-1-82
65	ROAD STD. SHEET MD-2	MISCELLANEOUS STANDARDS	5-5-87	R4-1-87
66	ROAD STD. SHEET MD-3	MISCELLANEOUS STANDARDS	12-27-82	R10-1-82
67	ROAD STD. SHEET ME	MISCELLANEOUS STANDARDS	5-19-88	R4-4-88
68	ROAD STD. SHEET ME-2	MISCELLANEOUS STANDARDS	6-27-85	R9-4-84
69	ROAD STD. SHEET MN	MISCELLANEOUS STANDARDS	9-24-85	R6-3-85
70	ROAD STD. SHEET MN-1	MISCELLANEOUS STANDARDS	3-16-72	R1-3-72
71	ROAD STD. SHEET MP	MISCELLANEOUS STANDARDS	9-24-85	R6-3-85
72	ROAD STD. SHEET MP-1	MISCELLANEOUS STANDARDS	4-9-70	R2-2-70
73	ROAD STD. SHEET MR	MISCELLANEOUS STANDARDS	4-10-84	R2-1-84
73-A	ROAD STD. SHEET MH-3	MISCELLANEOUS STANDARDS	5-19-88	R4-4-88
	ROAD STD. SHEET	MISCELLANEOUS STANDARDS		
	ROAD STD. SHEET	MISCELLANEOUS STANDARDS		
74	ROAD STD. SHEET MT-3	MISCELLANEOUS STANDARDS	8-5-88	R8-1-88
75	ROAD STD. SHEET MT-4	MISCELLANEOUS STANDARDS	12-1-88	R9-1-88
	ROAD STD. SHEET	MISCELLANEOUS STANDARDS		
	ROAD STD. SHEET	MISCELLANEOUS STANDARDS		
	ROAD STD. SHEET	MISCELLANEOUS STANDARDS		
~~75A~~	ROAD STD. SHEET ~~GR1~~	GUARD RAIL CLASS Deleted	*	~~R4-2-84~~ R4-2-84
75B	ROAD STD. SHEET GR2	GUARD RAIL CLASS B	*	
	ROAD STD. SHEET GR	GUARD RAIL CLASS		
	ROAD STD. SHEET GR	GUARD RAIL CLASS		
	ROAD STD. SHEET GR5	ALUMINUM GUARD RAIL DETAILS		
	ROAD STD. SHEET GR6	STEEL TUBE GUARD RAIL DETAILS		
	ROAD STD. SHEET GR7	GUARD RAIL PIER CONNECTION DETAILS		
	ROAD STD. SHEET GR8	STEEL BEAM GUARD RAIL		
	ROAD STD. SHEET GR9	ALUMINUM BEAM GUARD RAIL		
	ROAD STD. SHEET GR10	GUARD RAIL BURIED ENDS		
	ROAD STD. SHEET GR10A	GUARD RAIL BREAKAWAY CABLE TERM.		
	ROAD STD.			
	ROAD STD. SHEET CB2	TEMPORARY CONCRETE BARRIER		
	TRAFFIC STD. SHEET 9	TRAFFIC SIGN DETAILS	*	A SEP 1988
75-B	ROAD STD. SHEET 1 DETOURS	STANDARD DETOUR SIGNS		
	ROAD STD. SHEET 1A DETOURS	STANDARD DETOUR SIGNS		
	ROAD STD. SHEET 1B DETOURS	STANDARD DETOUR SIGNS	*	A SEP 1988
76	ROAD STD. SHEET 2 DETOURS	STANDARD DETOUR SIGNS	*	A SEP 1988
77	ROAD STD. SHEET 2A DETOURS	STANDARD DETOUR SIGNS	*	R 9-1-88
78	ROAD STD. SHEET 3 DETOURS	STANDARD DETOUR SIGNS		
	ROAD STD. SHEET 3A DETOURS	STANDARD DETOUR SIGNS	1-11-85	R 9-1-88
79	ROAD STD. SHEET 4 DETOURS	STANDARD DETOUR SIGNS	*	R 9-1-88
80	ROAD STD. SHEET 5 DETOURS	STANDARD DETOUR SIGNS		
	ROAD STD. SHEET 5A DETOURS	STANDARD DETOUR SIGNS		

* F.H.W.A. APPROVAL PENDING

APPROVED 9-19-90

HERMAN R. PATE No. 15719 STATE OF INDIANA PROFESSIONAL ENGINEER

Herman R Pate
BRIDGE REPLACEMENT ENGINEER
INDIANA DEPARTMENT OF TRANSPORTATION

Gary L Hamke
CHIEF, DIVISION OF DESIGN
INDIANA DEPARTMENT OF TRANSPORTATION

RECOMMENDED FOR APPROVAL 9-19-90

DESIGN CONSULTANT SERVICES MANAGER
INDIANA DEPARTMENT OF TRANSPORTATION

DAVID M. PLUCKEBAUM REGISTERED No. 20674 STATE OF INDIANA PROFESSIONAL ENGINEER

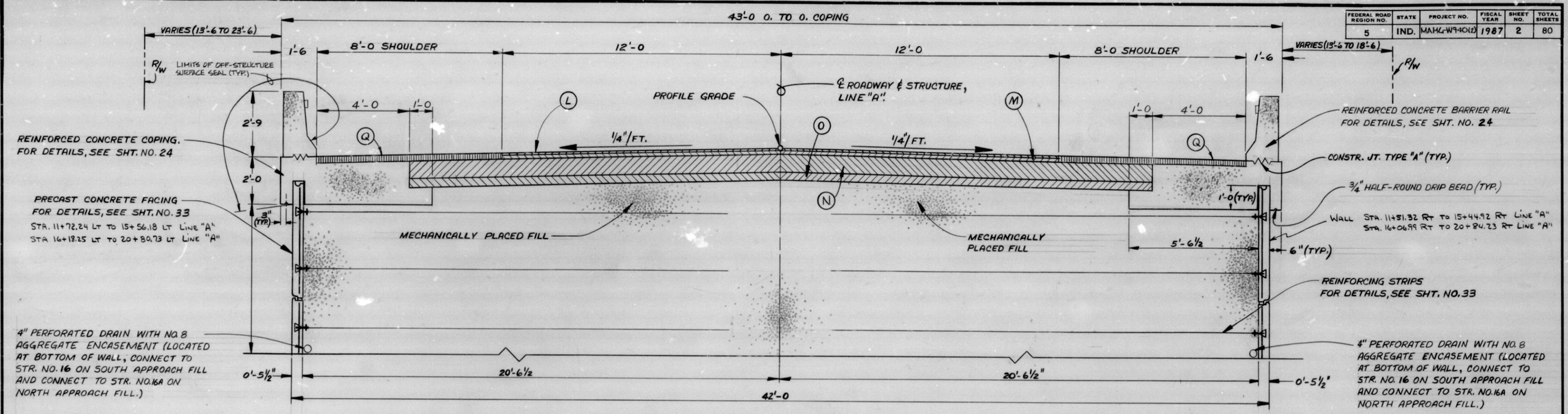
FEDERAL HIGHWAY ADMINISTRATION
DEPARTMENT OF TRANSPORTATION
APPROVED:
DIVISION ADMINISTRATOR DATE

BRIDGE FILE: GIBSON 10288

Rev. 12-12-90, 75A Deleted, 75B Added, and Std. Sheet B Joint changed From * To 5-1-90

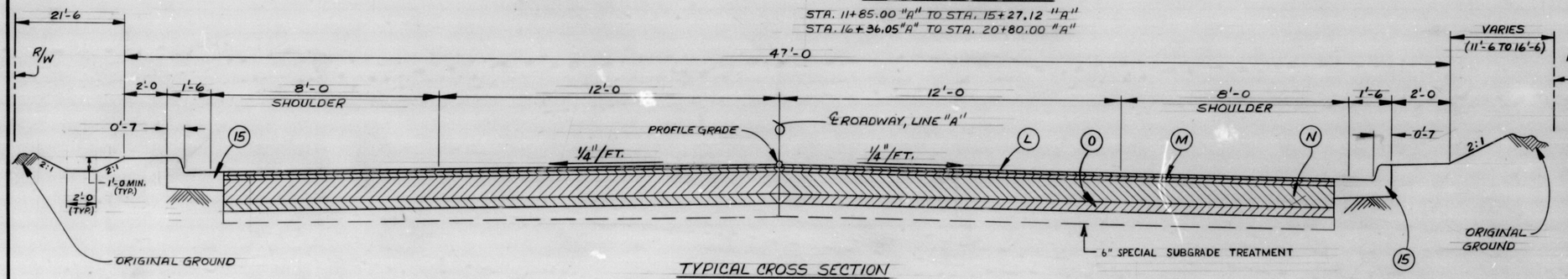
TP100

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	MAHG-W940(2)	1987	2	80



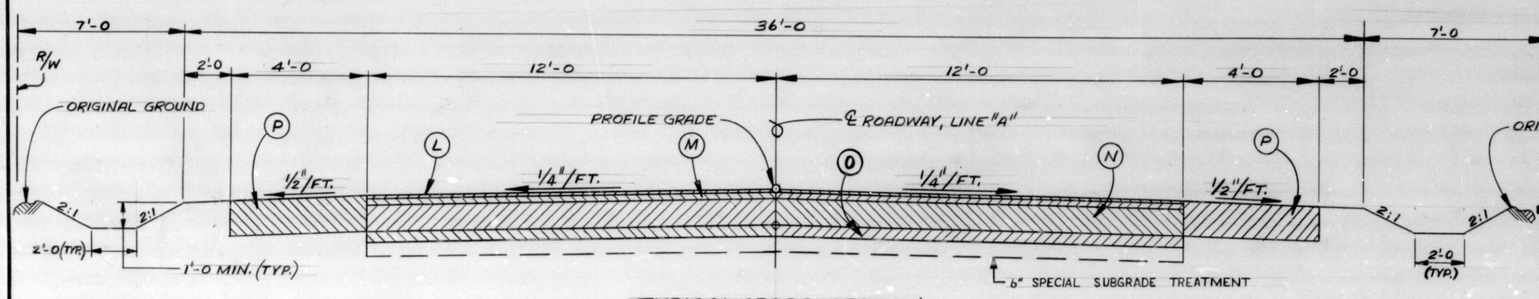
TYPICAL CROSS SECTION

STA. 11+85.00 "A" TO STA. 15+27.12 "A"
STA. 16+36.05 "A" TO STA. 20+80.00 "A"



TYPICAL CROSS SECTION

STA. 20+80.00 "A" TO STA. 21+82.50 "A"



TYPICAL CROSS SECTION

STA. 9+83.00 "A" TO STA. 11+85.00 "A"

NOTE: ALL CUT AND FILL SLOPES, DITCHES, AND DISTURBED AREAS TO BE SODDED.

LEGEND

- (L) 110 LBS. PER S.Y. BITUMINOUS SURFACE, TYPE #11, MV
- (M) 220 LBS. PER S.Y. BITUMINOUS BINDER, MV
- (N) 880 LBS. PER S.Y. BITUMINOUS BASE, MV
- (O) 440 LBS. PER S.Y. BITUMINOUS BASE 5D, MV
- (P) 1210 LBS. PER S.Y. BITUMINOUS BASE 5D, MV, WITH TYPE 2 SEAL COAT FOR SHOULDERS
- (Q) 330 LBS. PER S.Y. BITUMINOUS BASE, MV, WITH TYPE 2 SEAL COAT FOR SHOULDERS
- (15) COMBINED CONCRETE CURB & GUTTER

TYPICAL CROSS SECTIONS

SCALE: — 1/2" = 1'-0

RECOMMENDED FOR APPROVAL 2-1-90

JAMES S. RICE — CHIEF ENGINEER — NO. 12303 — STATE OF INDIANA — REGISTERED PROFESSIONAL ENGINEER

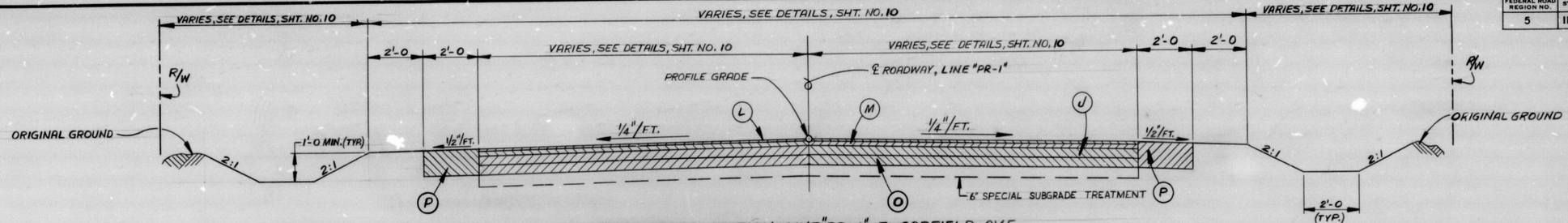
B-18986

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
MAHG-W940(2)	A	2	80	GIBSON102F8

1981

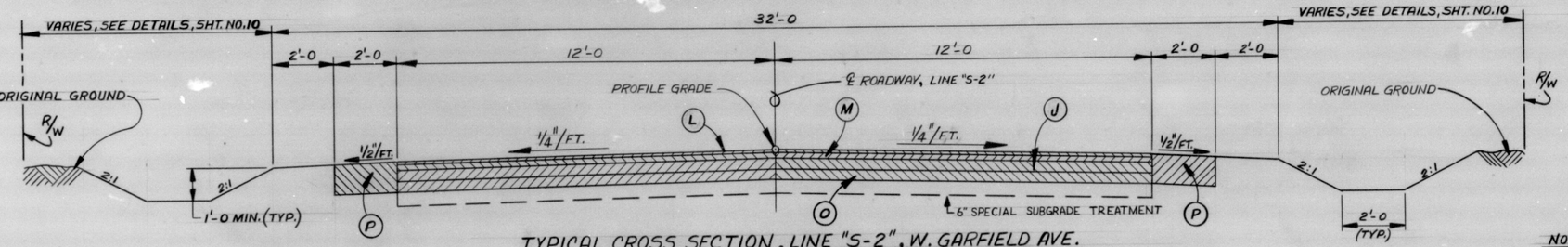
TP110

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	MAMG-W190(2)	1987	3	80



TYPICAL CROSS SECTION, LINE "PR-1", E. GARFIELD AVE.

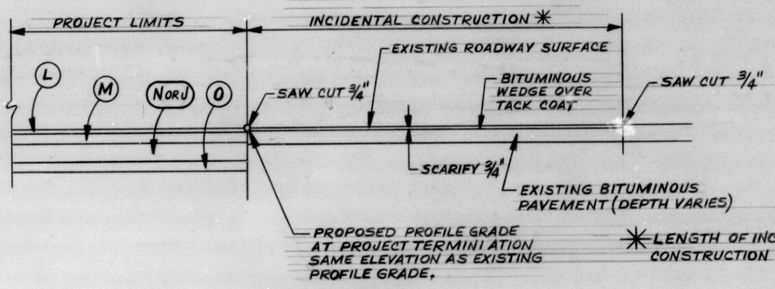
STA. 1+26.99 "PR-1" TO STA. 3+14.49 "PR-1"



TYPICAL CROSS SECTION, LINE "S-2", W. GARFIELD AVE.

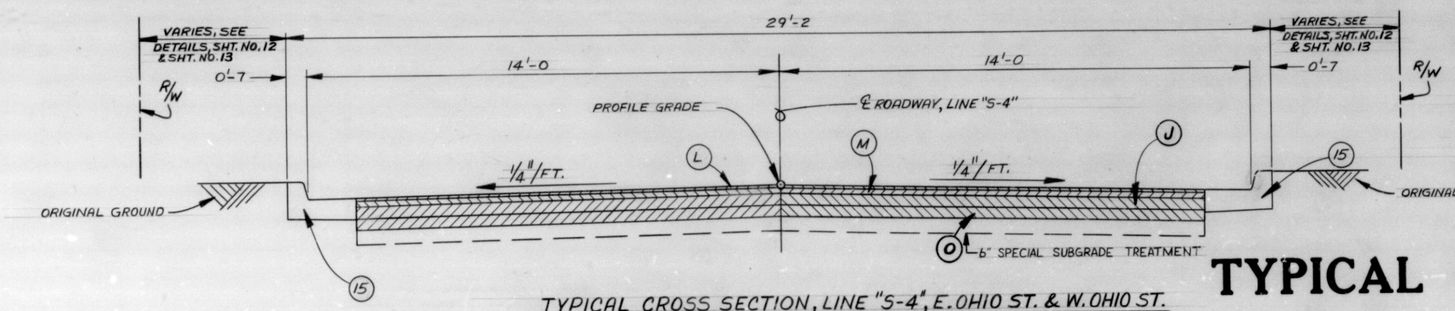
STA. 10+16.00 "S-2" TO STA. 11+50.00 "S-2"

NOTE: ALL CUT AND FILL SLOPES, DITCHES, AND ALL DISTURBED AREAS TO BE SODDED.



WEDGE DETAIL AT INCIDENTAL CONSTRUCTION AREAS

NO SCALE



TYPICAL CROSS SECTION, LINE "S-4", E. OHIO ST. & W. OHIO ST.

STA. 9+00.00 "S-4" TO STA. 9+80.00 "S-4" (E. OHIO ST.)

STA. 10+20.00 "S-4" TO STA. 12+96.96 "S-4" (W. OHIO ST.)

LEGEND

- (L) 110 LBS. PER S.Y. BITUMINOUS SURFACE, TYPE #11, MV
- (M) 220 LBS. PER S.Y. BITUMINOUS BINDER, MV
- (J) 440 LBS. PER S.Y. BITUMINOUS BASE, MV
- (O) 440 LBS. PER S.Y. BITUMINOUS BASE 5D, MV
- (P) 1210 LBS. PER S.Y. BITUMINOUS BASE 5D, MV, WITH TYPE 2 SEAL COAT FOR SHOULDERS
- (Q) 330 LBS. PER S.Y. BITUMINOUS BASE, MV, WITH TYPE 2 SEAL COAT FOR SHOULDERS
- (15) COMBINED CONCRETE CURB & GUTTER

TYPICAL CROSS SECTIONS

SCALE: — 1/2" = 1'-0

RECOMMENDED FOR APPROVAL 2-1-90

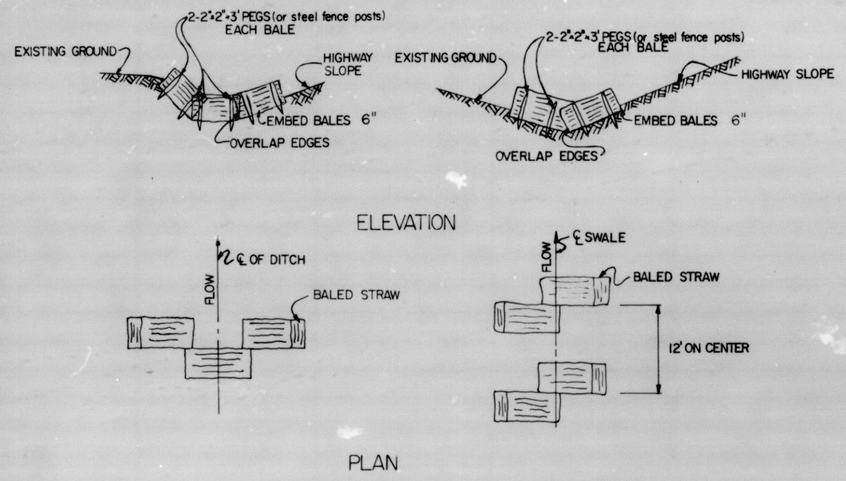
JAMES S. RICE REGISTERED NO. 10309 STATE OF PROFESSIONAL ENGINEER

B-18986

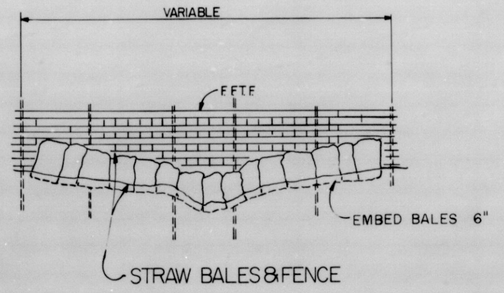
PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
MAMG-W190(2)	AS NOTED	3	80	GIBSON 10288

1981

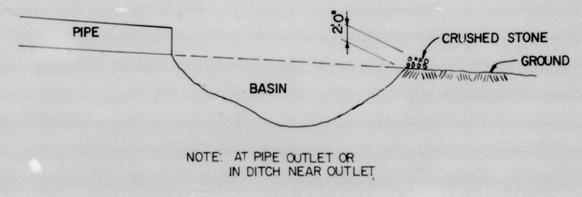
TP110



METHOD A



METHOD B

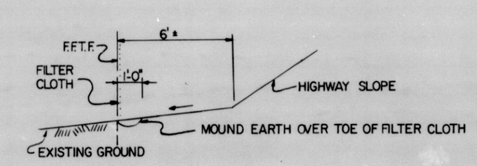


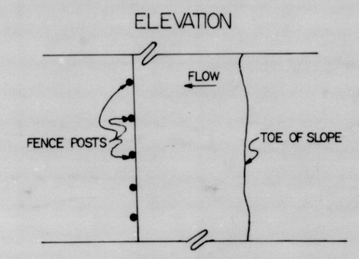
METHOD D

TABLE OF QUANTITIES						
LOCATIONS	SIZE	METHOD				
		A	B	C	D	E
STATION TO STATION	FEET	BALES	LFT.	LFT.	EACH	BALES
15+00 "A" RT.		3				
15+00 "A" LT.		3				
20+00 "A" RT.		3				
20+65 "A" LT.		3				

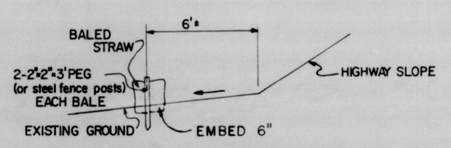
PAY ITEMS

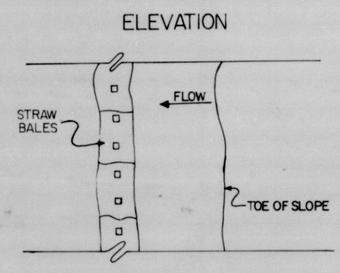
METHOD A	"STRAW BALES	EACH
METHOD B	"EROSION CONTROL METHOD B"	LIN.FT.
METHOD C	"EROSION CONTROL METHOD C"	LIN.FT.
METHOD D	"EROSION CONTROL METHOD D"	EACH
METHOD E	"STRAW BALES	EACH





METHOD C





METHOD E

EROSION CONTROL

INDIANA DEPARTMENT OF HIGHWAYS

SCALE:- NONE

DATE:- 2-1-90

James A Rice

SHEET:- 4 OF 80

PROJECT:- MAMG-W940 (2)

CONTRACT NO. B-18986

BRIDGE FILE:- GIBSON 10288

JAMES S. RICE REGISTERED NO. 18389 STATE OF INDIANA PROFESSIONAL ENGINEER

DESIGNED _____ C'K'D _____

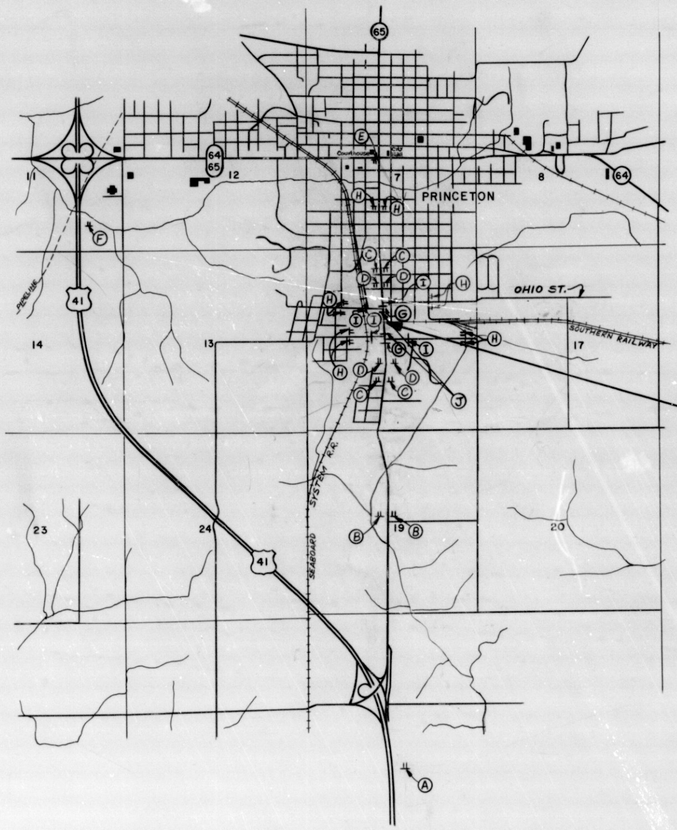
DRAWN J.R. 5-4-79 C'K'D _____

TRACED _____ C'K'D _____

Rev. 6-6-79 Method D and E
Rev. 4-7-80 Method A, B and E

NOTES

1. NO DIRECT PAYMENT FOR SETTLEMENT STAKES WILL BE MADE. COST OF SETTLEMENT STAKES WILL BE INCLUDED IN THE COST OF SETTLEMENT PLATES.
2. FOR SETTLEMENT STAKES AND PLATES DETAILS, SEE SHT. NOS. 15 & 16.



SCALE: 1" = 2000'

SETTLEMENT STAKES & PLATES TABLE		
STATION/ITEM	LOCATION LT. OR RT. OF LINE "A"	QUANTITY
12+49 / TOE STAKE	25' RT.	1
12+51 / TOE STAKE	25' LT.	1
12+55 / SETTLE. STAKE	℄	1
12+60 / SETTLE. PLATE	℄	1
13+40 / TOE STAKE	25' RT.	1
13+48 / SETTLE. STAKE	℄	1
13+51 / TOE STAKE	25' LT.	1
14+40 / TOE STAKE	25' RT.	1
14+49 / SETTLE. STAKE	℄	1
14+53 / TOE STAKE	25' LT.	1
15+39 / TOE STAKE	25' RT.	1
15+47 / SETTLE. PLATE	℄	1
15+50 / TOE STAKE	19' RT.	1
15+53 / TOE STAKE	2' RT.	1
15+54 / TOE STAKE	25' LT.	1
15+61 / TOE STAKE	18' LT.	1
16+00 / TOE STAKE	19' RT.	1
16+06 / TOE STAKE	2' LT.	1
16+08 / TOE STAKE	25' RT.	1
16+11 / TOE STAKE	19' LT.	1
16+17 / SETTLE. STAKE	℄	1
16+22 / TOE STAKE	25' LT.	1
17+09 / TOE STAKE	25' RT.	1
17+13 / SETTLE. STAKE	℄	1
17+22 / TOE STAKE	25' LT.	1
18+06 / TOE STAKE	25' RT.	1
18+12 / SETTLE. STAKE	℄	1
18+22 / TOE STAKE	25' LT.	1
19+06 / SETTLE. STAKE	℄	1
19+08 / TOE STAKE	25' RT.	1
19+11 / TOE STAKE	25' LT.	1

LEGEND

(A) ROAD CLOSED, 2 MILES AHEAD, LOCAL TRAFFIC ONLY (R11-3, 60"x30") AND DETOUR (XM9-9(L), 30"x 24")
NOTE: THESE SIGNS TO BE PLACED ON EXISTING EXIT RAMP SIGN FOR PRINCETON.

(B) ROAD CLOSED, 1 MILE AHEAD, LOCAL TRAFFIC ONLY (R11-3, 60"x30") WITH LOW INTENSITY FLASHING YELLOW LIGHT (TYPE "A").

(C) ROAD CLOSED 1000 FT. (XW 20-3, 48"x48") WITH LOW INTENSITY FLASHING YELLOW LIGHT (TYPE "A").

(D) ROAD CLOSED 500 FT. (XW 20-3, 48"x48") WITH LOW INTENSITY FLASHING YELLOW LIGHT (TYPE "A").

(E) ROAD CLOSED, 0.8 MILES AHEAD, LOCAL TRAFFIC ONLY (R11-3, 60"x30") AND DETOUR (XM4-9(R), 30"x 24").

(F) DETOUR (XM4-9(R), 30"x 24")
NOTE: THIS SIGN TO BE PLACED ON EXISTING EXIT RAMP SIGN FOR S.R. 64 EAST (PRINCETON)

(G) 3-TYPE III-B BARRICADES WITH PORTABLE CONSTRUCTION SIGN SUPPORT WITH "ROAD CLOSED" SIGN (R 11-2)

(H) ROAD CLOSED AHEAD (XW 20-3, 48"x48") WITH LOW INTENSITY FLASHING YELLOW LIGHT (TYPE "A").

(I) 2-TYPE III-B BARRICADES WITH PORTABLE CONSTRUCTION SIGN SUPPORT WITH "ROAD CLOSED" SIGN (R11-2).

(J) TYPE III-A BARRICADES.

TRAFFIC CONTROL PLAN
INDIANA DEPARTMENT OF HIGHWAYS
GIBSON COUNTY

SCALE:— AS NOTED DATE:- 2-1-90

SHEET:- 5 OF 80

PROJECT:- MAM4-W940 (2) STATION:— 15+81.5834 "A"
BRIDGE CONTRACT NO. B-18986
BRIDGE FILE:- GIBSON 10288

JAMES S. RICE REGISTERED NO. 19389 STATE OF INDIANA PROFESSIONAL ENGINEER

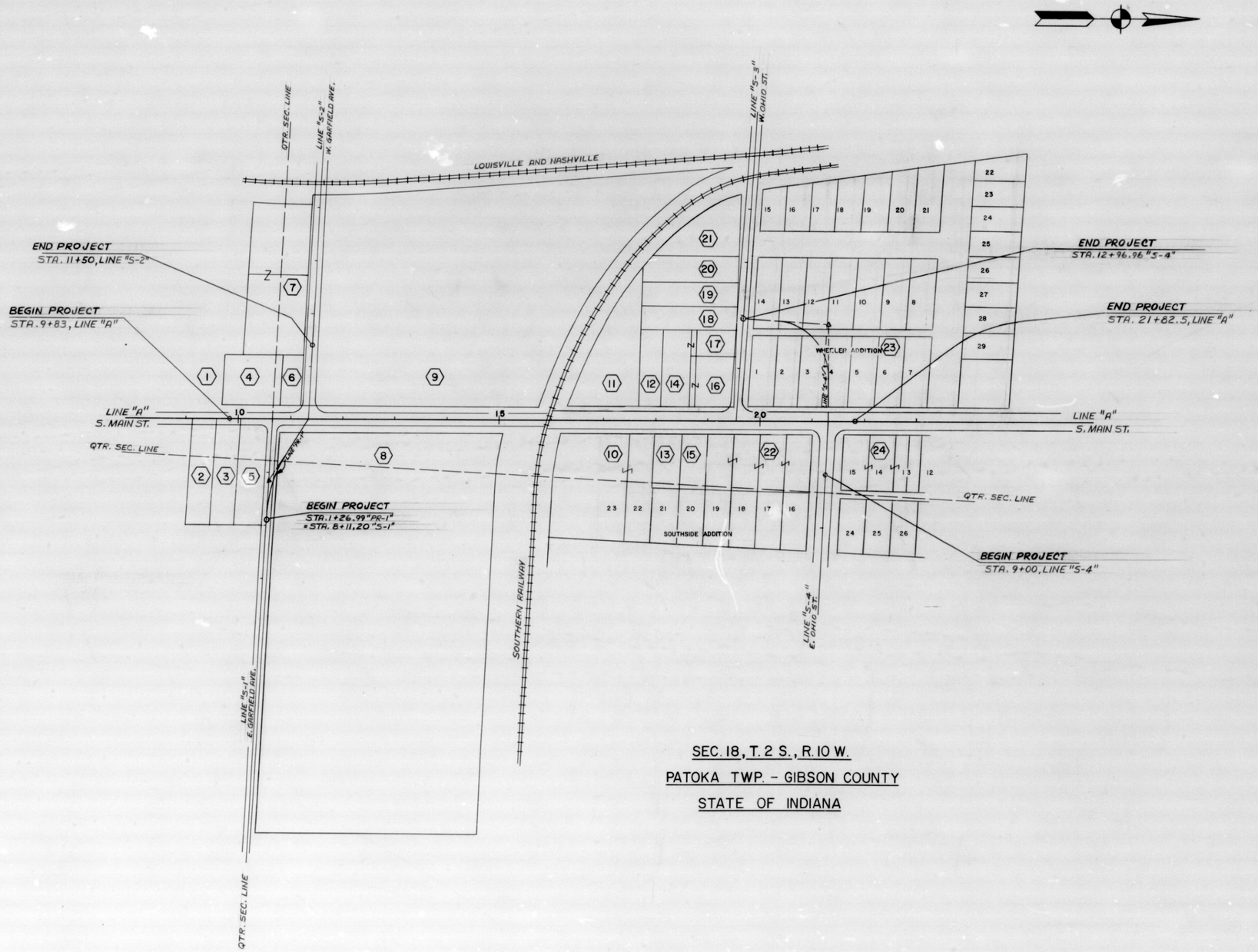
DESIGNED C'K'D
DRAWN C'K'D
TRACED C'K'D

SF-22317

Rev. 11/7/90 Added (J) TYPE III-A BARRICADES

TP101

FEDERAL REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IN.	MAMG-W9402()	1987	6	80



SEC.	INDEX NO.	OWNER
18	1	JAMES D. & GLORIA PAYNE
18	2	DENNIS HUX
18	3	DONALD & JUNE BROSHEARS
18	4	BILLY W. & VIRGINIA CARPENTER
18	5	FAYE THOMPSON
18	6	ERMAL WILDER
18	7	CAROL JEAN MASON
18	8	GIBSON COUNTY FARM BUREAU
18	9	JOE I. & EDITH M. RANKIN
18	10	HAHN OIL COMPANY
18	11	LESTER J. MASON
18	12	DENNIS & ROBERTA HAYS
18	13	EVERETT McDANIEL
18	14	RALPH & JOANN DAVIS
18	15	SYLVIA ALVIS
18	16	ALVA T. SHANKS ESTATE
18	17	RUSSELL & RUTH DAVIS
18	18	BILLY G. & SUSAN CORDREY
18	19	DONALD & JEANETTE CARLISLE
18	20	PAUL ED & LORETTA J. MEADOWS
18	21	EARL J. & WANDA WOODS
18	22	MOOSE LODGE NO. 354
18	23	(WHEELER ADDITION) JAY D. CANIFF
18	24	WALTER & DEBORAH BLAKE

SEC. 18, T. 2 S., R. 10 W.
PATOKA TWP. - GIBSON COUNTY
STATE OF INDIANA

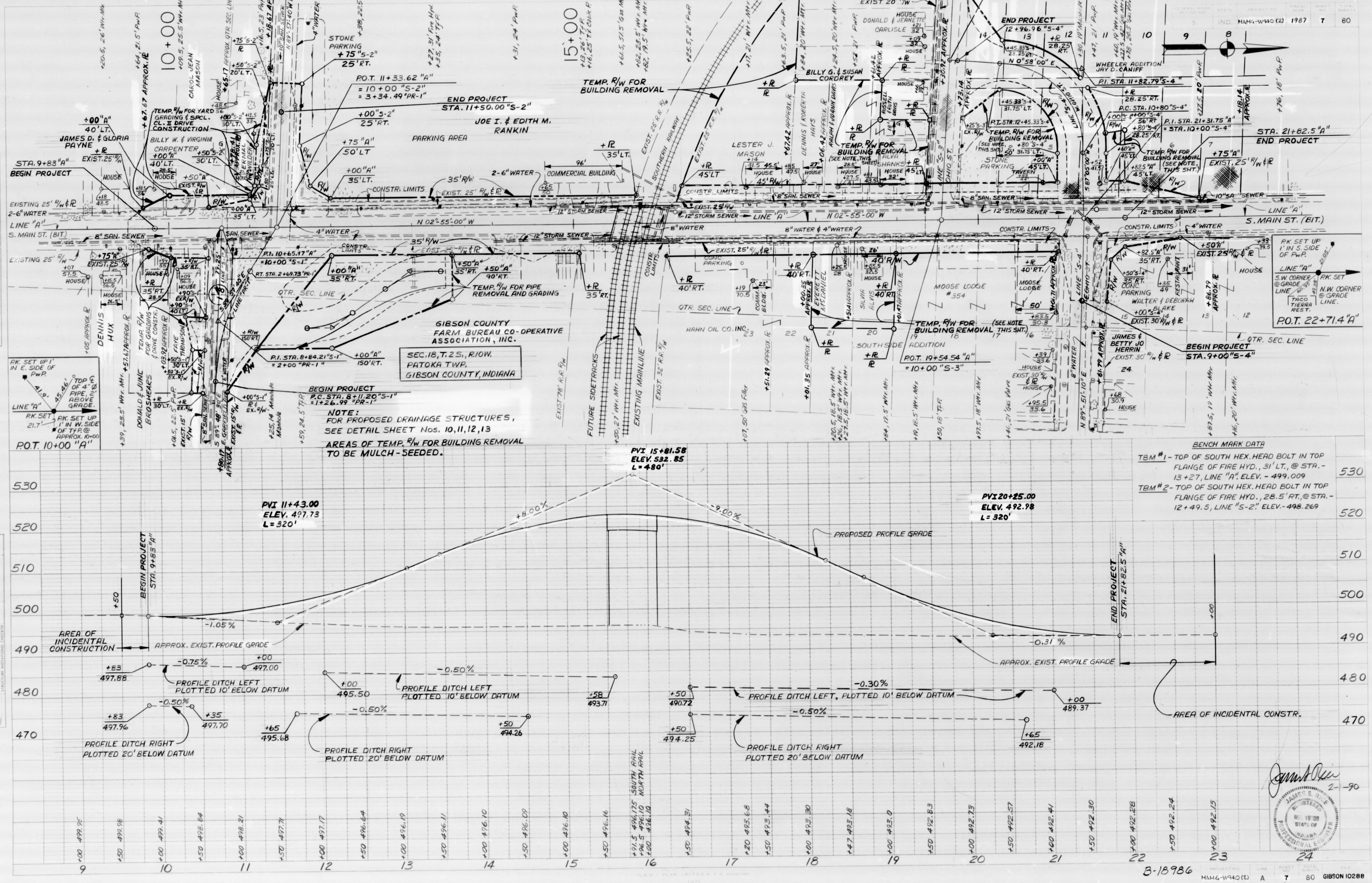
PLAT NO. 1

SCALE: 1" = 100'

2-1-90

JAMES S. RICE
REGISTERED
NO. 10308
STATE OF
INDIANA
PROFESSIONAL ENGINEER

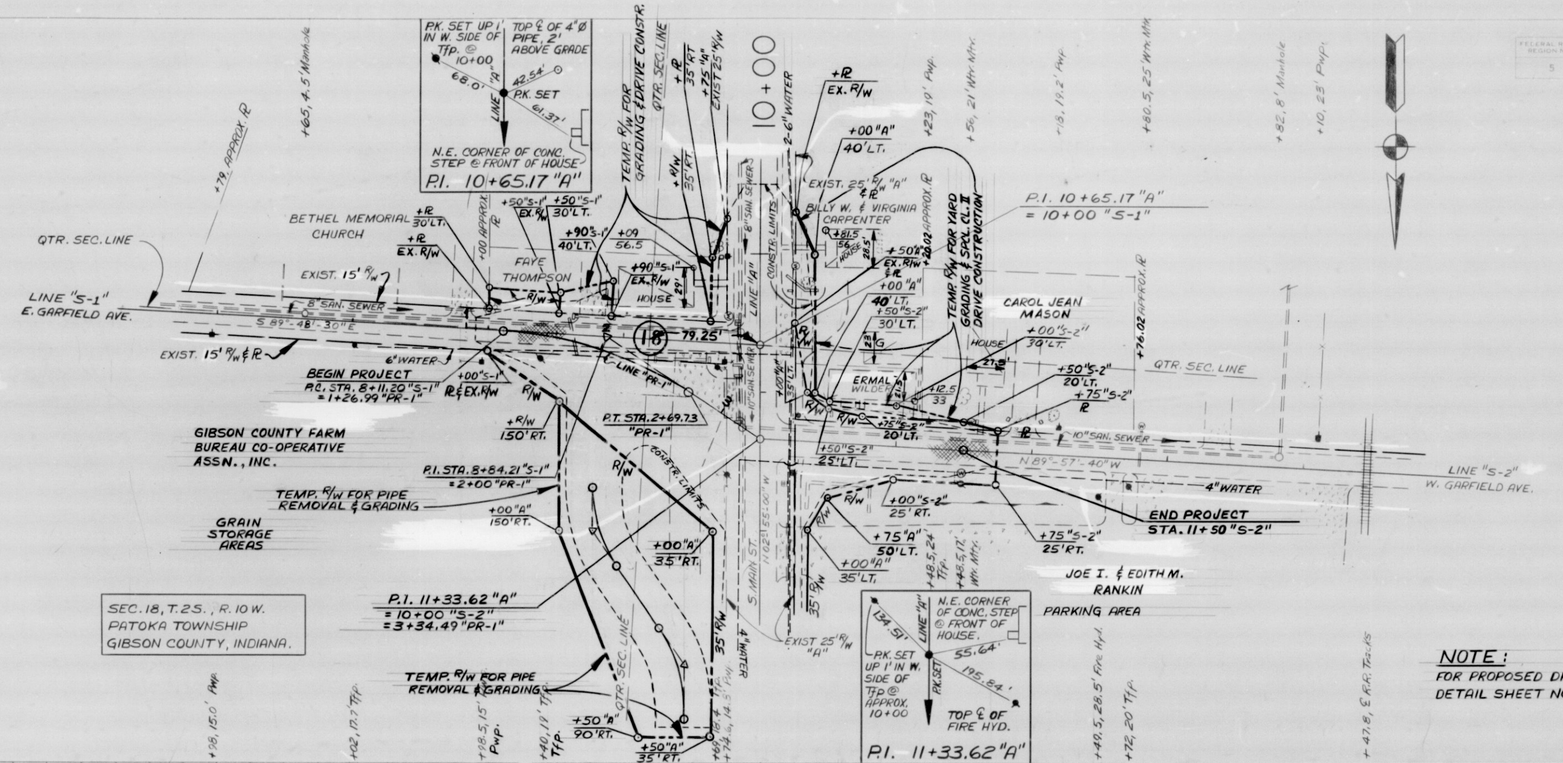
B-18986



IND
MAM4-W940 (2)
1987
7
80
PLAN
PROFILE
10+00
15+00
STA. 9+83 "A"
BEGIN PROJECT
STA. 21+82.5 "A"
END PROJECT
END PROJECT
STA. 11+50.00 "S-2"
END PROJECT
12+96.96 "S-4"
P.I. STA. 13+06.96 "S-4"
= P.O.T. STA. 11+94.37 "S-3"
P.O.T. 11+33.62 "A"
= 10+00 "S-2"
= 3+34.49 "PR-1"
P.O.T. 19+54.54 "A"
= 10+00 "S-3"
P.I. STA. 11+82.79 "S-4"
P.C. STA. 10+80 "S-4"
P.I. STA. 21+31.75 "A"
= STA. 10+00 "S-4"
P.I. STA. 8+84.21 "S-1"
= 2+00 "PR-1"
P.I. 10+65.17 "A"
= 10+00 "S-1"
BEGIN PROJECT
P.C. STA. 8+11.20 "S-1"
= 1+26.99 "PR-1"
BEGIN PROJECT
STA. 9+00 "S-4"
P.O.T. 22+71.4 "A"
P.O.T. 10+00 "A"
LINE "A"
S. MAIN ST. (BIT.)
N 02°-55'-00" W
EXIST. 25' R/W
8" SAN. SEWER
12" STORM SEWER
8" WATER
4" WATER
2-6" WATER
CONSTR. LIMITS
QTR. SEC. LINE
JAMES D. & GLORIA PAYNE
BILLY W. & VIRGINIA CARPENTER
CAROL JEAN MASON
JOE I. & EDITH M. RANKIN
PARKING AREA
COMMERCIAL BUILDING
STONE PARKING
TEMP. R/W FOR BUILDING REMOVAL
TEMP. R/W FOR PIPE REMOVAL AND GRADING
TEMP. R/W FOR YARD GRADING & SPCL. CL. II DRIVE CONSTRUCTION
GIBSON COUNTY FARM BUREAU CO-OPERATIVE ASSOCIATION, INC.
SEC. 18, T. 2 S., R. 10 W.
PATOKA TWP.
GIBSON COUNTY, INDIANA
DENNIS HUX
DONALD & JUNE BROSHEARS
SOUTHERN RAILWAY
EXISTING MAINLINE
FUTURE SIDETRACKS
LESTER J. MASON
BILLY G. & SUSAN CORDREY
DONALD & JEANETTE CARLISLE
HAHN OIL CO. INC.
MOOSE LODGE #354
SOUTH SIDE ADDITION
WHEELER ADDITION JAY D. CANIFF
STONE PARKING
TAVERN
WALTER & DEBORAH BLAKE
JAMES & BETTY JO HERRIN
TACO TIERRA REST.
PK. SET UP 1' IN S. SIDE OF PWP.
PK. SET N.W. CORNER @ GRADE LINE.
PK. SET UP 1' IN E. SIDE OF PWP.
PK. SET UP 1' IN W. SIDE OF T.F.P. @ APPROX. 10+00
NOTE:
FOR PROPOSED DRAINAGE STRUCTURES, SEE DETAIL SHEET Nos. 10, 11, 12, 13
AREAS OF TEMP. R/W FOR BUILDING REMOVAL TO BE MULCH-SEEDED.
BENCH MARK DATA
TBM #1 - TOP OF SOUTH HEX. HEAD BOLT IN TOP FLANGE OF FIRE HYD., 31' LT., @ STA. - 13+27, LINE "A", ELEV. - 499.009
TBM #2 - TOP OF SOUTH HEX. HEAD BOLT IN TOP FLANGE OF FIRE HYD., 28.5' RT., @ STA. - 12+49.5, LINE "S-2", ELEV. - 498.269
PVI 11+43.00
ELEV. 497.73
L = 320'
PVI 15+81.58
ELEV. 532.85
L = 480'
PVI 20+25.00
ELEV. 492.98
L = 320'
+5.00%
-9.00%
-1.05%
-0.31%
PROPOSED PROFILE GRADE
APPROX. EXIST. PROFILE GRADE
AREA OF INCIDENTAL CONSTRUCTION
AREA OF INCIDENTAL CONSTR.
BEGIN PROJECT STA. 9+83 "A"
END PROJECT STA. 21+82.5 "A"
PROFILE DITCH LEFT PLOTTED 10' BELOW DATUM
PROFILE DITCH RIGHT PLOTTED 20' BELOW DATUM
-0.75%
-0.50%
-0.30%
SOUTH RAIL
NORTH RAIL
530
520
510
500
490
480
470
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
2-1-90
B-18986
MAM4-W940 (2)
A
7
80
GIBSON 10288

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	MAM4-W940(E)	1987	8	80

PLAN — SURVEYED / DRAWN / NOTE BOOK / ALIGNMENT CHECKED / R/W OR WAY CHECKED / No. / BY / DATE



NOTE:
FOR PROPOSED DRAINAGE STRUCTURES, SEE DETAIL SHEET NOS. 10, 11, 12, 13

SHEET SIGN SUMMARY					
SIGN CODE	SIGN DESCRIPTION	NO. OF SIGNS	SHEETING TYPE	THICKNESS (INCHES)	TOT. AREA (SQ. FT.)
R-1A	STOP	1	II	0.08	6.25
R-1A	STOP	1	II	0.08	6.25
R-1A	STOP	1	II	0.08	6.25
R-1A	STOP	1	II	0.08	6.25
TOTAL		4	II	0.08	25.0

NOTE: SIGN LOCATIONS AND POST LENGTHS ARE APPROXIMATE. EXACT LOCATIONS AND LENGTHS TO BE DETERMINED IN THE FIELD BY PROJECT ENGINEER.

SIGN POST SUMMARY					
SIGN CODE	LOCATION STATION AND LINE	LT./RT.	NO. OF POSTS	POST TYPE	TOT. LEN. (LFT.)
R-1A	8+10 "PR-1"	RT.	1	8	14'
R-1A	10+20 "S-2"	LT.	1	8	14'
R-1A	10+30 "S-4"	LT.	1	8	14'
R-1A	9+80 "S-4"	RT.	1	8	14'
	TOTAL		4	8	56'

PROFILE — SURVEYED / DRAWN / NOTE BOOK / GRADES CHECKED / H = V NOTE / No. / STRUCTURE NOTATIONS CHECKED / BY / DATE

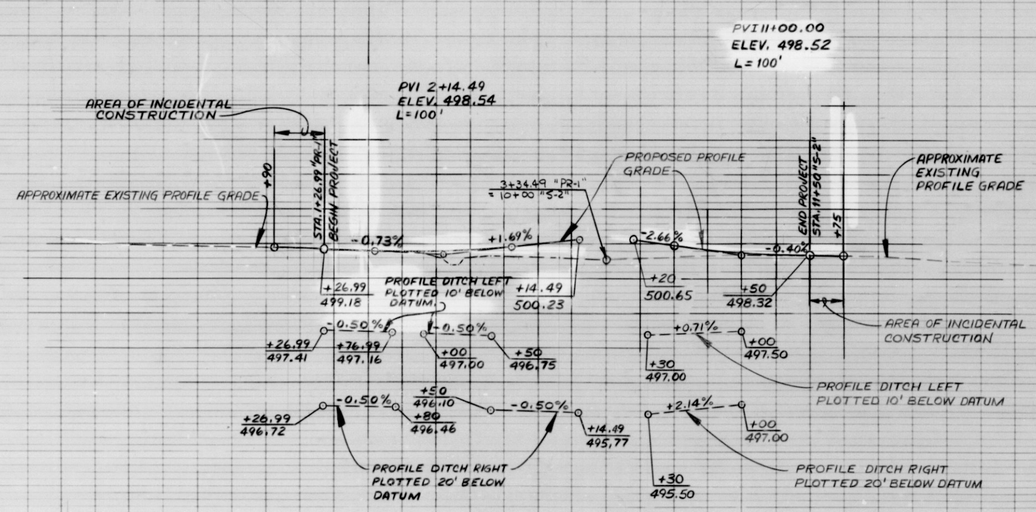


PLATE 1. PLAN PROFILE & R. R. STANDARD 1975

James S. Rice 2-1-90
JAMES S. RICE REGISTERED NO. 10369 STATE OF INDIANA PROFESSIONAL ENGINEER

B-18986

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
S	IND.	HAHC-W940 (2)	1987	9	80

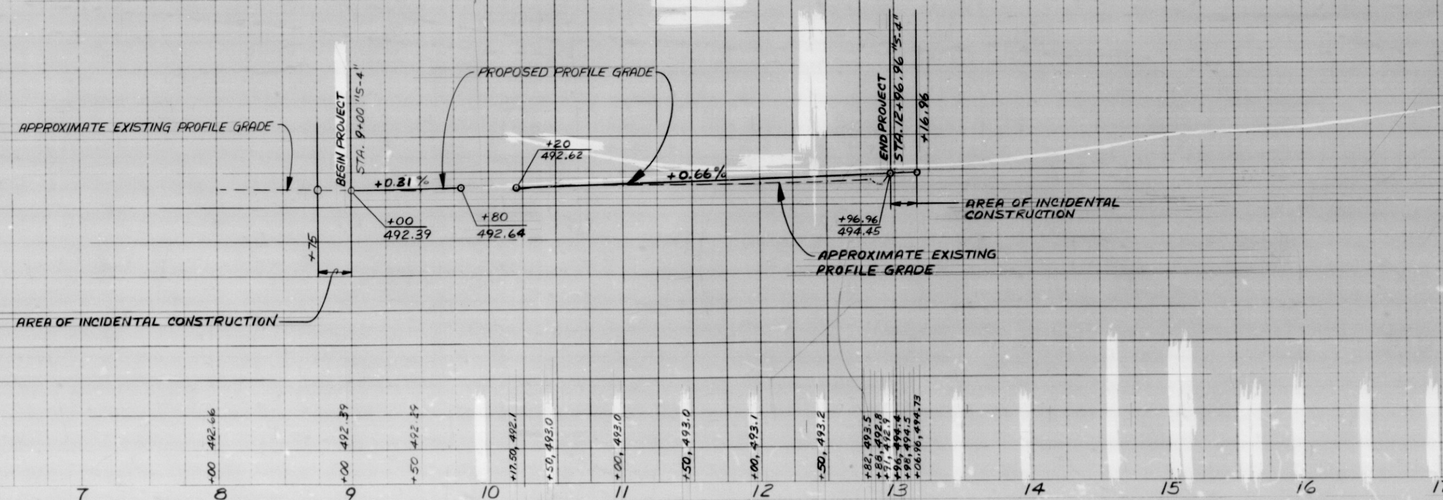
UP 1' @ S.W. CORNER OF CONC. BLOCK & BRICK BLDG.
P.K. SET UP 1' IN N. SIDE OF PWP.
UP 1' @ S.W. CORNER OF BLDG.
MOOSE LODGE
TAVERN
P.I. 19+54.54 "A"

TEMP. R/W FOR BUILDING REMOVAL (SEE NOTE, THIS SHT.)
P.I. 19+54.54 "A" = 10+00 "S-3"
SOUTHSIDE ADDITION
QTR. SEC. LINE
CONSTR. LIMITS
S. MAIN ST.
LINE "A"
10+00
MOOSE LODGE #354
SYLVIA ALVIS
EXIST. 25' R/W "A"
+51.41 "A" APPROX. R
+51.47 "A" APPROX. R
40' RT.
45' LT.
40' R/W
8" WATER
4" WATER
8" STORM SEWER
EXIST. 25' R/W
45' R/W
+61.42 A APPROX. R
TEMP. R/W FOR BUILDING REMOVAL (SEE NOTE, THIS SHT.)
ALVA SHANKS
RUSSELL & RUTH DAVIS
BILLY G. & SUSAN CORDREY
DONALD & JEANETTE CARLISLE
EARL J. & WANDA WOODS
PAUL ED & LORETTA U. MERIONS
+30.92 APPROX. R
8" SAN. SEWER
2" WATER
N 89°-02'-00" W
EXIST. 20' R/W
EXIST. 25' R.R. R/W
SOUTHERN RAILWAY
LINE "S-3"
OHIO ST.
15+00
+25 'S-3' EX. R/W
+75 'S-3' EX. R/W
TEMP. R/W FOR BUILDING REMOVAL (SEE NOTE, THIS SHT.)
+45.83 'S-4' 31.75' LT.
+45.33 'S-4' 28.25' RT.
TAVERN
P.I. STA. 13+06.96 "S-4" = P.O.T. STA. 11+94.37 "S-3"
END PROJECT 12+96.96 "S-4"
P.T. STA. 12+45.33 "S-4"
P.I. STA. 11+82.79 "S-4"
LINE "S-4" W. OHIO ST.
N 58° 00' E
S 87° 05' 00" E
P.I. 21+31.75 "A"
+00 "S-4" = 10+00 "S-4"
WHEELER ADDITION
JAY D. CANIFF
+60 "A" 45' LT.
+82.5 'A' 45' LT.
TEMP. R/W FOR BUILDING REMOVAL (SEE NOTE, THIS SHT.)
P.C. STA. 10+80 "S-4"
+75 "A" EXIST. 25' R/W & P.
LINE "S-4" E. OHIO ST.
N 89°-51'-10" E
CONSTR. LIMITS
+50 "S-4"
35' RT.
+61.79 APPROX. R
JAMES & BETTY JO HERRIN
WALTER & DEBORAH BLAKE
+82.5 'A'
+00 "S-4" EXIST. 25' R/W & P.
STA. 9+00 "S-4" BEGIN PROJECT
PRINCE ST.
HOUSE
MOOSE LODGE
+40.17 APPROX. R
UP 1' @ N.W. CORNER OF BRICK BLDG.
UP 1' @ N.W. CORNER OF CONC. BLOCK BLDG.
TOP & OF FIRE HYD.
P.I. 21+31.75 "A"

SEC. 18, T. 2 S., R. 10 W.
PATOKA TWP.
GIBSON COUNTY, INDIANA

NOTES:

1. FOR PROPOSED DRAINAGE STRUCTURES, SEE SHEET NOS. 10, 11, 12, 13.
2. LINE "A", BEGIN DOUBLE YELLOW (2-4" LINES, 4" SEPARATION) STA. 9+83 TO 21+00.
3. LINE "A", EDGE LINE 11.5 FT. LT. STA. 9+83 TO STA. 10+75, STA. 11+72 TO 20+80.
4. LINE "A", EDGE LINE 11.5 FT. RT. STA. 9+83 TO STA. 10+20, STA. 11+50 TO 20+84.
5. LINE "PR-1", BEGIN DOUBLE YELLOW (2-4" LINES, 4" SEPARATION) STA. 1+26.99 TO 3+14.49
6. LINE "S-2" BEGIN DOUBLE YELLOW (2-4" LINES, 4" SEPARATION) STA. 10+20 TO STA. 11+40.
7. LINE "S-4" BEGIN DOUBLE YELLOW (2-4" LINES, 4" SEPARATION) STA. 9+00 TO 9+80, AND STA. 10+20 TO STA. 12+96.96.
8. PLACE STOP BAR (24" WIDE HOT THERMOPLASTIC) AT STA. 3+14.49 "PR-1", 30 FEET LONG.
9. PLACE STOP BAR (24" WIDE HOT THERMOPLASTIC) AT STA. 10+20 "S-2", 30 FEET LONG.
10. PLACE STOP BAR (24" WIDE HOT THERMOPLASTIC) AT STA. 10+20 "S-4", 30 FEET LONG.
11. PLACE STOP BAR (24" WIDE HOT THERMOPLASTIC) AT STA. 9+80 "S-4", 30 FEET LONG.
12. AREAS OF TEMP. R/W FOR BUILDING REMOVAL TO BE MULCH-SEEDED.



James S Rice 2-1-90
JAMES S. RICE
REGISTERED
NO. 10238
STATE OF
INDIANA
PROFESSIONAL ENGINEER

B-18986 HAHC-W940(2) S-3,S-4 9 80 GIBSON 10238

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	MAMG-W940 (2)	1987	10	80

10+00

STR. NO. 11
50' OF 12" PIPE W/2 END SECTIONS REQ'D.

STR. NO. 28
FIRE HYDRANT WITH 6" AUXILLARY VALVE AND 10" x 6" TEE REQ'D.

SPCL. CLASS II W=30' DR.

STR. NO. 27
2-6" VALVES AND BOXES AND 2-10" x 6" TEES AND 1,090 LFT. OF 10" C 900 WATER LINE REQ'D.
P.I. 10+65.17 "A" = 10+00 "S-1"

BEGIN PROJECT
STA. 9+83 "A"

TEMP. R/W FOR YARD GRADING & SPCL. CL. II DRIVE CONSTRUCTION

SIDEWALK TO BE REPLACED

SIDEWALK TO BE REMOVED

EXIST. R/W & R

EXIST. 6" WATER (TO REMAIN IN PLACE)

EXIST. 4" H.P. GAS

EXIST. GAS SERVICE LINE

LINE "A"
N 02° 55' 00" W

TREES TO REMAIN IN PLACE

EXIST. 1¼" WATER (TO REMAIN IN PLACE)

EXIST. R/W

TEMP. R/W FOR GRADING

EXIST. 8" SANITARY SEWER

STR. NO. 10
54' OF 12" PIPE W/2 END SECTIONS REQ'D. MIDDLE OF SEC. 18, IRON OVER STONE FOUND

P.I. STA. 8+84.21 "S-1" = 2+00 "PR-1"

CURVE DATA "PR-1"
Δ = 29° 44' 20" RT.
D = 20° 50' 05"
T = 73.01'
R = 275.00'
L = 142.74'
E = 9.53'
S.E. = NONE

SPCL. CL. II W=18' DR.

TEMP. R/W FOR GRADING AND DRIVE CONSTRUCTION

STR. NO. 8
32' OF 12" PIPE W/2 END SECTIONS REQ'D.

EXIST. 6" WATER (TO REMAIN IN PLACE)

P.I. 11+33.62 "A" = 10+00 "S-2" = 3+34.49 "PR-1"

P.T. STA. 2+69.73 "PR-1"

LINE "PR-1"

TEMP. R/W FOR DRIVE CONSTRUCTION

STR. NO. 9
64' OF 12" PIPE W/2 END SECTIONS REQ'D.

BEGIN PROJECT
P.C. STA. 8+11.20 "S-1" = 1+26.99 "PR-1"

E. GARFIELD AVE.

SPCL. CLASS II W=8' DR.

EXIST. 8" SANITARY SEWER

LINE "S-2"

W. GARFIELD AVE.

EXIST. 4" WATER

STR. NO. 29
4" VALVE AND BOX AND 10" x 4" TEE REQ'D.

END PROJECT
11+50 "S-2"

STR. NO. 13
100' OF 15" PIPE W/2 END SECTIONS REQ'D.

STR. NO. 14
INLET TYPE S-14 AND 6' OF 12" PIPE W/1 END SECTION REQ'D.

2-BAY G.R.E.A.T. UNIT

C.L.T.F. SINGLE GATE

R.C. BARRIER RAIL

SIDEWALK TO BE REMOVED

10" WATER LINE

R/W & C.L.T.F.

EXIST. 4" WATER (TO BE ABANDONED)

EXIST. 6" WATER (TO BE ABANDONED)

PAVEMENT REMOVAL ON MAINLINE (LINE "A") FROM STA. 9+83 TO STA. 15+90 AND STA. 16+00 TO STA. 21+82.5

LINE "A" OLD U.S. 41 (S. MAIN ST.)

4" H.P. GAS (EXIST.)

STR. NO. 12
INLET TYPE S-14 AND 6' OF 12" PIPE W/1 END SECTION REQ'D.

N 02° 55' 00" W

12" COMPACTED AGGREGATE, TYPE "D", FOR PRIVATE DRIVE TRANSITION.

TEMP. R/W FOR PIPE REMOVAL AND GRADING

SPCL. CL. IV W=24' DR.

N 37° 55' 00" W

N 02° 55' 00" W

LEGEND
- (L) 110 LBS. PER S.Y. BITUMINOUS SURFACE, TYPE #11, MV
- (M) 220 LBS. PER S.Y. BITUMINOUS BINDER, MV
- (N) 880 LBS. PER S.Y. BITUMINOUS BASE, MV
- (O) 440 LBS. PER S.Y. BITUMINOUS BASE 5D, MV
- (P) 1210 LBS. PER S.Y. BITUMINOUS BASE 5D, MV, WITH TYPE 2 SEAL COAT FOR SHOULDERS
- (J) 440 LBS. PER S.Y. BITUMINOUS BASE, MV
- (Q) 330 LBS. PER S.Y. BITUMINOUS BASE, MV, WITH TYPE 2 SEAL COAT FOR SHOULDERS
- (15) COMBINED CONCRETE CURB & GUTTER
- SIDEWALK TO BE REMOVED
- SIDEWALK TO BE REPLACED

DETAILS

SCALE: 1"=20'

2-1-90
James A Rice

JAMES S. RICE REGISTERED NO. 10338 STATE OF INDIANA PROFESSIONAL ENGINEER

B-18986

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	MAMG-W940(2)	1987	11	80

15+00

+90 **STR. NO. 30**
8" VALVE AND BOX AND 10" x 8" TEE REQ'D.

+16 **STR. NO. 31**
MANHOLE TYPE "C" AND 329 LFT. OF SCHEDULE 40 PVC 8" SANITARY SEWER PIPE REQ'D.

+28 **STR. NO. 16A**
INLET TYPE F-7 AND 20' OF 24" PIPE W/1 END SECTION REQ'D

+40 **STR. NO. 32**
FIRE HYDRANT WITH 6" AUXILIARY VALVE AND 10" x 6" TEE REQ'D.

+58 **STR. NO. 16**
INLET TYPE F-7 AND 68' OF 24" PIPE REQ'D.

EXIST. 25' R.R. R/W

EXIST. 4" SANITARY SEWER (TAP INTO STR. NO. 31)

20 LFT. OF 16" STEEL CASING TO BE JACKED

20 LFT. OF 30" STEEL CASING TO BE JACKED

EXIST. 2" H.P. GAS

EXIST. 8" WATER (TO REMAIN IN PLACE)

R.C. BARRIER RAIL

R.C. BRIDGE APPROACH

TEMP. R/W FOR BUILDING REMOVAL (SEE NOTE, THIS SHEET)

HOUSE TO BE REMOVED (PARCEL 9)

HOUSE TO BE REMOVED (PARCEL 10)

HOUSE TO BE REMOVED (PARCEL 12)

HOUSE TO BE REMOVED (PARCEL 14)

EXIST. GAS SERVICE LINE

SIDEWALK TO BE REMOVED

R/W & C.L.T.F.

EXIST. R/W & P.I.

10" WATER LINE

EXIST. 4" WATER (TO BE ABANDONED)

8" SANITARY SEWER

EXIST. 8" SANITARY SEWER (TO BE ABANDONED)

EXIST. 6" WATER (TO BE ABANDONED)

LINE "A"

N 02°-55'-00" W

PAVEMENT REMOVAL ON MAINLINE (LINE "A") FROM STA. 9+83 TO STA. 15+90 AND STA. 16+00 TO STA. 21+82.5

EXIST. 18" STORM SEWER (TO BE ABANDONED)

EXIST. 10" STORM SEWER (TO BE ABANDONED)

EXIST. 8" WATER (TO BE ABANDONED)

EXIST. 4" WATER (TO BE ABANDONED)

R.C. BARRIER RAIL

SIDEWALK TO BE REMOVED

LINE "A"

OLD U.S. 41 (S. MAIN ST.)

EXIST. R/W & P.I.

EXIST. 4" H.P. GAS

EXIST. GAS SERVICE LINES

TRACK MAINTENANCE CORRIDOR

PARALLEL TRACK DRAINAGE DITCH BEGINS AT THIS LOCATION.

EXIST. GAS SERVICE LINE

R.C. COPING/APRON

STR. NO. 15 +50
INLET TYPE E-7 AND 90' OF 18" PIPE REQ'D.

+95 **STR. NO. 15A**
MANHOLE TYPE B-15 AND 52' OF 18" PIPE REQ'D.

EXIST. 78' R.R. R/W

PROPOSED SIDETRACKS

EXIST. MAIN RAIL LINE

EXIST. 32' R.R. R/W

HOUSE TO BE REMOVED (PARCEL 11)

HOUSE TO BE REMOVED (PARCEL 13)

21

20

TEMP. R/W FOR BUILDING REMOVAL (SEE NOTE, THIS SHEET)

LEGEND

- (L) 110 LBS. PER S.Y. BITUMINOUS SURFACE TYPE #11, MV
- (M) 220 LBS. PER S.Y. BITUMINOUS BINDER, MV
- (N) 880 LBS. PER S.Y. BITUMINOUS BASE, MV
- (O) 440 LBS. PER S.Y. BITUMINOUS BASE 5D, MV
- (P) 1210 LBS. PER S.Y. BITUMINOUS BASE 5D, MV, WITH TYPE 2 SEAL COAT FOR SHOULDERS
- (Q) 330 LBS. PER S.Y. BITUMINOUS BASE, MV, WITH TYPE 2 SEAL COAT FOR SHOULDERS
- (15) COMBINED CONCRETE CURB & GUTTER
- SIDEWALK TO BE REMOVED
- SIDEWALK TO BE REPLACED

NOTE: AREAS OF TEMP. R/W FOR BUILDING REMOVAL TO BE MULCH SEEDED

DETAILS

SCALE: 1" = 20'

2-1-90

JAMES S. RICE REGISTERED NO. 10389 STATE OF INDIANA PROFESSIONAL ENGINEER

B-18986

1976

TP107

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	MAMG-W140(1)	1987	12	80

SEE SHEET NO. 13, FOR ADDITIONAL DETAILS, LINE "S-3."

EXIST. GAS SERVICE LINE

EXIST. 10" WATER TO REMAIN IN PLACE

LINE "S-3"

OHIO ST.

TEMP. R/W FOR BUILDING REMOVAL (SEE NOTE, THIS SHT.)

EXIST. GAS SERVICE LINE

EXIST. 2" H.P. GAS

GARAGE TO BE REMOVED

HOUSE TO BE REMOVED

SIDEWALK TO BE REMOVED

STR. NO. 33 +45
1¼" VALVE AND BOX REQ'D. TAP TO PROPOSED 10" WATER LINE

C.L.T.F DOUBLE GATE

R/W & C.L.T.F.

SIDEWALK TO BE REMOVED +35 45'

EXIST. R/W

Q

R.C. BARRIER RAIL

LINE "A"
N 02° 55' 00" W

L M N O

EXIST. 1¼" WATER (TO BE ABANDONED UP TO STR. NO. 33)

EXIST. R/W & R

+50,21'

CONC. PARKING

R/W

C.L.T.F. SINGLE GATE

R/W & C.L.T.F.

+50,40'

SIDEWALK TO BE REMOVED

EXIST. 4" H.P. GAS

55' R.

R/W

P.I. STA. 13+06.96 "S-4"
= P.O.T. STA. 11+94.37 "S-3"

END PROJECT
12+96.96 "S-4"

+90

STR. NO. 26
140' OF 12" PIPE W/2 END SECTIONS REQ'D.

P.I. STA. 11+82.79 "S-4"

L M J O

N 0° 58' 00" E

14 13 12 11 10 9

WHEELER ADDITION

CURVE DATA ("S-4")
Δ = 86° 07' 00"
D = 52° 05' 13"
R = 110.00'
T = 102.79'
L = 165.33'
E = 40.55'
S.E. = NONE
P.I. STA. 21+31.75 "A"
= STA. 10+00 "S-4"

BUILDING TO BE REMOVED

TEMP. R/W FOR BUILDING REMOVAL (SEE NOTE, THIS SHT.)

STR. NO. 23
M.H. TYPE B-15 REQ'D.

+74

P.T. STA. 12+45.33 "S-4"

TEMP. R/W FOR BUILDING REMOVAL (SEE NOTE, THIS SHT.)

REMOVE EXISTING ASPHALT ROADWAY

20+00

P.C. STA. 10+80 "S-4"

STR. NO. 19A +95
INLET TYPE J-10 AND 10' OF 12" PIPE REQ'D.

STR. NO. 20 +00
CATCH BASIN TYPE F-7 AND 78' OF 12" PIPE REQ'D.

STR. NO. 21 +82
M.H. TYPE B-15 AND 94' OF 12" PIPE REQ'D.

END PROJECT
21+82.50 "A"

55 TONS OF 18" REVETMENT RIPRAP AND 50 SYS. GEOTEXTILE

STR. NO. 19
INLET TYPE S-14 AND 12' OF 12" PIPE W/I END SECTION REQ'D. +65

BUILDING TO BE REMOVED (PARCEL 16)

WHITEHOUSE TAVERN

+75 45'

EXIST. GAS SERVICE LINE

EXIST. 8" STORM SEWER

10" WATER LINE C.L.T.F.

EXIST. 2" H.P. GAS

+75 21'

8" SANITARY SEWER

EXIST. 8" SAN. SEWER (TO BE ABANDONED)

EXIST. 18" STORM SEWER (TO BE ABANDONED)

L 2 BAY G.R.E.A.T. UNIT

L M N O

86° 07' 00"

R.C. BARRIER RAIL

EXIST. 8" WATER (TO BE ABANDONED)

EXIST. 4" WATER (TO BE ABANDONED)

S 87° 05' 00" W

L M J O

LINE "S-4"

E. OHIO ST.

92° 46' 10"

90° 00' 00"

STR. NO. 22 +82
INLET TYPE J-10 AND 12' OF 12" PIPE REQ'D.

SIDEWALK TO BE REMOVED

R/W

EXIST. R/W & R

SIDEWALK TO BE REMOVED

SIDEWALK TO BE REPLACED

+00

LINE "A"
OLD U.S. 41 (S. MAIN ST.)

EXIST. 4" WATER (TO REMAIN IN PLACE)

EXIST. 6" WATER (TO REMAIN IN PLACE)

EXIST. R/W & R

10' R.

R/W

CONC. PARKING

37' R.

TACO TIERRA RESTARAUNT

SPCL. CLASS III W=21' DR. +04

+20 STR. NO. 36
EXIST. MANHOLE IN PLACE TAP WITH 8" SEWER PIPE

+12 STR. NO. 25
INLET TYPE J-10 AND 24' OF 12" PIPE REQ'D.

+65 STR. NO. 37
10" TO 6" REDUCER REQ'D.

SIDEWALK TO BE REPLACED

BEGIN PROJECT
9+00 "S-4"

+50 "S-4" STR. NO. 38
FIRE HYDRANT WITH 6" AUXILIARY VALVE AND 10 LFT. OF 6" C 900 WATER LINE WITH 8" x 6" TEE REQ'D.

N 89° 51' 10" E

EXIST. 8" WATER (TO BE REPLACED)

EXIST. GAS SERVICE LINES

+50

STR. NO. 17 +65
INLET TYPE S-14 AND 8' OF 12" PIPE REQ'D.

20' R.

L 2-BAY G.R.E.A.T. UNIT

SIDEWALK TO BE REPLACED

EXIST. R/W & R

MOOSE LODGE #354

20 19 18 17 16

SOUTHSIDE ADDITION

STR. NO. 18 +65
C.B. TYPE F-7 AND 128' OF 12" PIPE REQ'D.

STR. NO. 34 +45
MANHOLE TYPE "C" AND 185 LFT. OF 8" SCHEDULE 40 PVC SANITARY SEWER PIPE REQ'D.

P.I. 19+54.54 "A"
= 10+00 "S-3"

STR. NO. 35 +28
10" VALVE AND BOX AND 10 LFT. OF 10" C 900 WATER LINE AND 10" x 4" TEE AND 10" x 8" TEE REQ'D.

FOR DETAIL OF RELOCATED MOOSE LODGE #354 ENTRANCE, SEE SHT. NO. 13

STR. NO. 24 +03
INLET TYPE M-10 AND 144' OF 12" PIPE REQ'D.

LEGEND

- (L) 110 LBS. PER S.Y. BITUMINOUS SURFACE, TYPE #11, MV
- (M) 220 LBS. PER S.Y. BITUMINOUS BINDER, MV
- (N) 880 LBS. PER S.Y. BITUMINOUS BASE, MV
- (O) 440 LBS. PER S.Y. BITUMINOUS BASE 5D, MV
- (P) 1210 LBS. PER S.Y. BITUMINOUS BASE 5D, MV WITH TYPE 2 SEAL COAT FOR SHOULDERS
- (J) 440 LBS. PER S.Y. BITUMINOUS BASE, MV
- (Q) 330 LBS. PER S.Y. BITUMINOUS BASE, MV, WITH TYPE 2 SEAL COAT FOR SHOULDERS
- (15) COMBINED CONCRETE CURB & GUTTERS
- SIDEWALK TO BE REPLACED
- SIDEWALK TO BE REMOVED

NOTE: AREAS OF TEMP. R/W FOR BUILDING REMOVAL TO BE MULCH-SEEDED

2-1-90
James A. Rice

JAMES A. RICE REGISTERED NO. 19351 STATE OF INDIANA PROFESSIONAL ENGINEER

DETAILS

SCALE: 1" = 20'

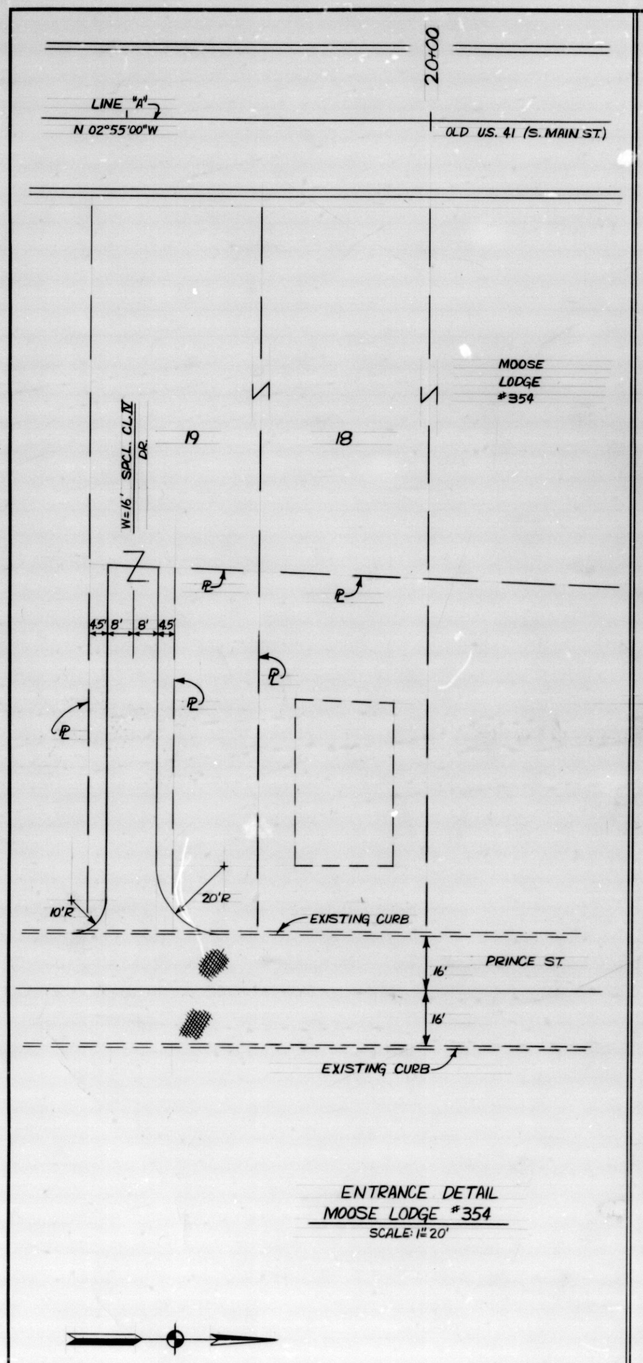
B-18986

1976

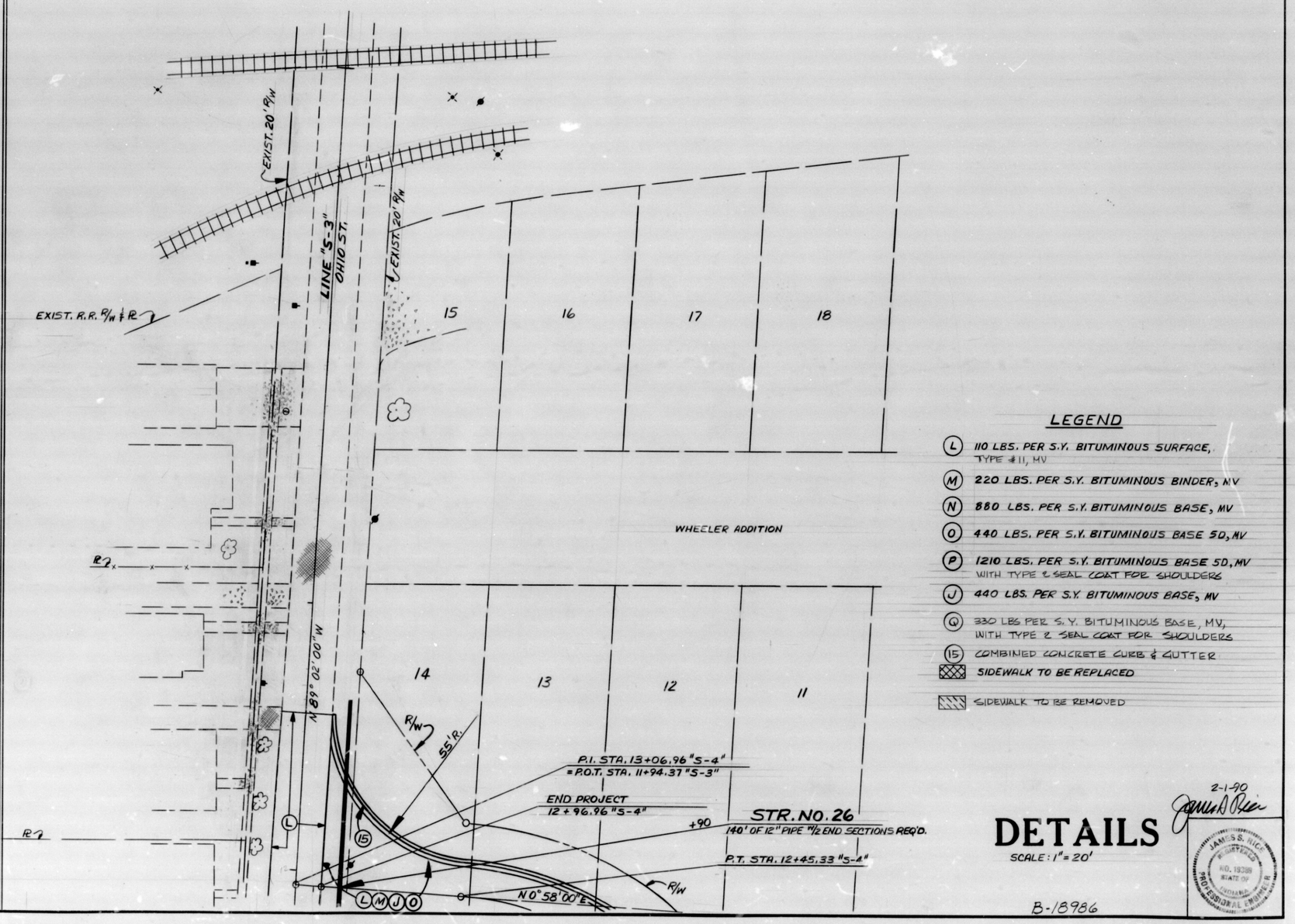
Rev: 12-12-90 Guard rail type "A" To "B"

TP107

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	HSM4-W940(2)	1987	15	80



ENTRANCE DETAIL
MOOSE LODGE #354
SCALE: 1"= 20'



LEGEND

- (L) 110 LBS. PER S.Y. BITUMINOUS SURFACE, TYPE #11, MV
- (M) 220 LBS. PER S.Y. BITUMINOUS BINDER, MV
- (N) 880 LBS. PER S.Y. BITUMINOUS BASE, MV
- (O) 440 LBS. PER S.Y. BITUMINOUS BASE 5D, MV
- (P) 1210 LBS. PER S.Y. BITUMINOUS BASE 5D, MV WITH TYPE 2 SEAL COAT FOR SHOULDERS
- (J) 440 LBS. PER S.Y. BITUMINOUS BASE, MV
- (Q) 330 LBS PER S.Y. BITUMINOUS BASE, MV, WITH TYPE 2 SEAL COAT FOR SHOULDERS
- (15) COMBINED CONCRETE CURB & GUTTER
- SIDEWALK TO BE REPLACED
- SIDEWALK TO BE REMOVED

DETAILS

SCALE: 1"= 20'

2-1-90

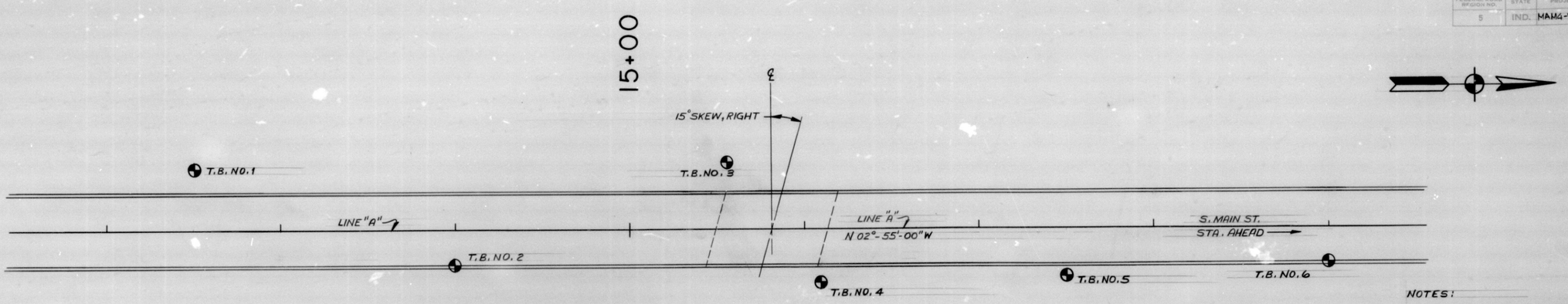
JAMES S. RICE
REGISTERED
NO. 19338
STATE OF INDIANA
PROFESSIONAL ENGINEER

B-18986

TP107

1976

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	MAMG-W940(2)	1987	14	80



PLAN
SCALE: 1" = 30'

NOTES:

▼ INDICATES GROUND WATER TABLE.

N INDICATES THE NUMBER OF BLOWS REQUIRED TO DRIVE A 1 3/8" I.D., 2" O.D. SPLIT SPOON SAMPLER 12" BY MEANS OF A 140 LB. WEIGHT FALLING 30".

SEE DRAWING C3 FOR GENERAL NOTES.

TEST BORING NO.	T.B. No. 1	T.B. No. 2	T.B. No. 3	T.B. No. 4	T.B. No. 5	T.B. No. 6
STATION	12+50 "A"	14+00 "A"	15+55 "A"	16+25 "A"	17+50 "A"	19+00 "A"
OFFSET	35' LT.	20' RT.	38' LT.	30' RT.	27' RT.	20' RT.
GROUND ELEV.	497.0	495.0	496.0	493.5	493.5	493.0

	SAMPLE No.	SAMPLE Elev.	N	DESCRIPTION
500		497.0		GROUND LEVEL — TOPSOIL
	1	496.7	11	BROWN MOIST STIFF SILTY CLAY LOAM
490	2	491.0	13	
	3		5	BROWN MOIST SOFT TO STIFF SILTY LOAM
480	4	487.0	11	
				END OF BORING
470				DEPTH OF BORING 10'
460				
450				
440				
430				
420				

	SAMPLE No.	SAMPLE Elev.	N	DESCRIPTION
500		495.0		GROUND LEVEL
	1		10 ▼	BROWN MOTTLED GRAY MOIST MEDIUM STIFF TO SOFT SILTY CLAY LOAM
490	2	489.0	3	
	3	486.0	6	GRAY MOIST MEDIUM STIFF SILTY CLAY LOAM
480	4	481.5	5	GRAY MOIST SOFT CLAY LOAM
	5	479.0	7	BROWN MOTTLED GRAY MOIST MEDIUM STIFF CLAY LOAM
470	6	475.0	16	LIGHT GRAY WET MEDIUM DENSE SAND WITH SOME SILT
				END OF BORING
460				DEPTH OF BORING 20'
450				
440				
430				
420				

	SAMPLE No.	SAMPLE Elev.	N	DESCRIPTION
500		496.0		GROUND LEVEL
	1	494.0	6	TOPSOIL
490	2	490.0	9	BROWN MOIST MEDIUM STIFF SILTY CLAY LOAM WITH COAL ASH
	3	487.5	8 ▼	BROWN MOTTLED GRAY MOIST MEDIUM STIFF SILTY CLAY LOAM
480	4	482.5	5	BROWN MOIST SOFT SILTY LOAM
	5		8	BROWN MOTTLED GRAY MEDIUM STIFF TO STIFF CLAY LOAM
470	6	474.0	11	
	7	469.0	8	BROWN WET MEDIUM DENSE SAND
460	8	462.5	5	GRAY VERY MOIST SOFT SILTY CLAY
	9		18	GRAY WET MEDIUM DENSE TO DENSE SAND
450	10	454.5	46	
		452.5		BROWN WET DENSE SAND
440	11	448.0	8	GRAY MOIST MEDIUM STIFF SILTY CLAY
	12		24	GRAY WET MEDIUM DENSE TO DENSE SAND
430	13		34	
	14	436.0	45	END OF BORING
420				DEPTH OF BORING 60'

	SAMPLE No.	SAMPLE Elev.	N	DESCRIPTION
500		493.5		GROUND LEVEL — TOPSOIL
	1	493.1	11 ▼	GRAY MOIST MEDIUM STIFF TO STIFF SILTY CLAY LOAM
490	2		10	
	3	485.0	7	GRAY MOTTLED BROWN MOIST VERY SOFT SILTY LOAM
480	4	480.0	3	
	5		7	GRAY MOIST MEDIUM STIFF CLAY LOAM
470	6	474.0	9	BROWN WET LOOSE SAND
	7	469.5	3	
460	8	460.0	3	GRAY MOIST SOFT SILTY CLAY
	9		10	
450	10	449.5	14	BROWN WET LOOSE TO MEDIUM DENSE SAND
	11	444.5	12	GRAY MOIST MEDIUM STIFF SILTY CLAY
440	12		30	
	13		41	GRAY WET TO MOIST DENSE SAND
430	14	434.0	42	END OF BORING
				DEPTH OF BORING 60'

	SAMPLE NO.	SAMPLE ELEV.	N	DESCRIPTION
500		493.5		GROUND LEVEL — TOPSOIL
	1	492.9	12	BROWN MOTTLED GRAY MOIST STIFF SILTY CLAY LOAM
490	2	487.0	13 ▼	
	3		4	GRAY MOTTLED BROWN SOFT SILTY LOAM
480	4	480.0	5	
	5	478.0	8	GRAY MOIST MEDIUM STIFF CLAY LOAM
470		474.5		LIGHT GRAY MOIST DENSE SAND
	6	473.5	10	BROWN MOIST MEDIUM STIFF SILTY CLAY
460				END OF BORING
				DEPTH OF BORING 20'
450				
440				
430				

	SAMPLE No.	SAMPLE ELEV.	N	DESCRIPTION
500		493.0		GROUND LEVEL — TOPSOIL
	1	492.3	12	BROWN MOTTLED GRAY MOIST STIFF TO MEDIUM STIFF SILTY CLAY LOAM
490	2		8	
	3	484.5	6	
480	4	483.0	7	GRAY MOIST MEDIUM STIFF SILTY LOAM
				END OF BORING
470				DEPTH OF BORING 10'
460				
450				
440				
430				

SOIL BORINGS

SCALES: HORIZ. 1" = 30' VERT. 1" = 10' DATE: 2-1-90

RECOMMENDED FOR APPROVAL: James A Rice

PROJECT: MAMG-W940 (2)

CONTRACT NO. B-18986

BRIDGE FILE: GIBSON 10288

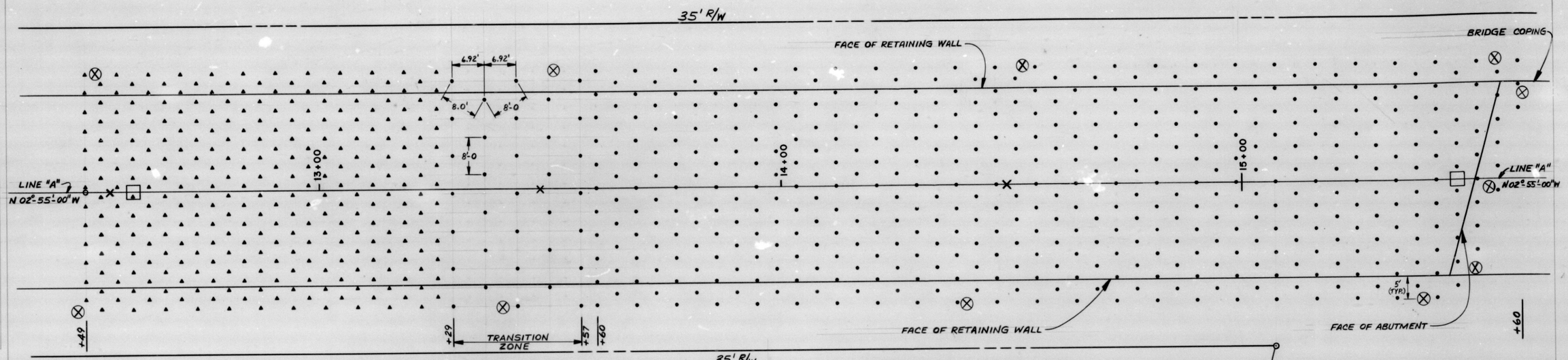
JAMES S. RICE REGISTERED NO. 10389 STATE OF INDIANA PROFESSIONAL ENGINEER

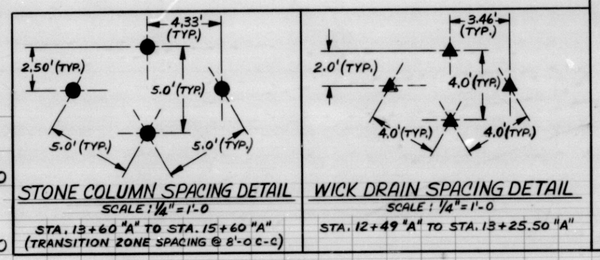
PLATE 1 - PLAN-PROFILE - R.R. STANDARD 1975

PROJECT NO.	LINE	SHEET	TOTAL SHEETS	
MAMG-W940(2)	A	14	80	GIBSON 10288

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	MAM-W940(2)	1987	15	80

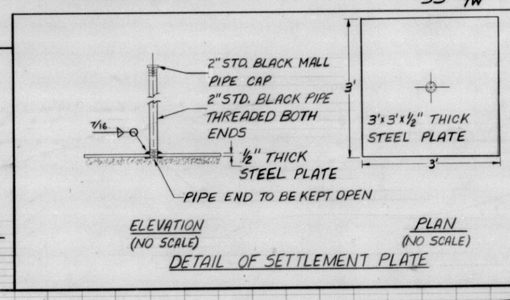
SCALE: 1"=10'





STONE COLUMN SPACING DETAIL
SCALE: 1/4"=1'-0
STA. 13+60 "A" TO STA. 15+60 "A"
(TRANSITION ZONE SPACING @ 8'-0 C-C)

WICK DRAIN SPACING DETAIL
SCALE: 1/4"=1'-0
STA. 12+49 "A" TO STA. 13+25.50 "A"



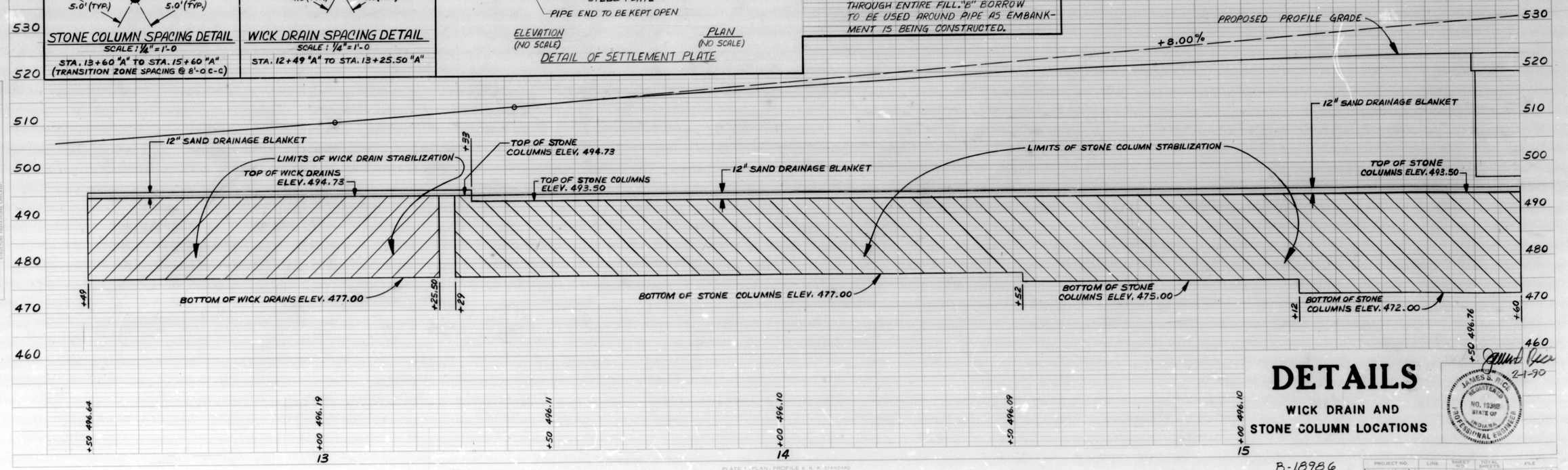
DETAIL OF SETTLEMENT PLATE

- □ INDICATES SETTLEMENT PLATE
- ▲ INDICATES WICK DRAIN LOCATIONS
- • INDICATES STONE COLUMN LOCATIONS
- × INDICATES SETTLEMENT STAKES AT GRADE
- ⊗ INDICATES TOE STAKES

NOTE: CONTRACTOR TO FURNISH MATERIALS AND LABOR TO EXTEND PIPE UP THROUGH ENTIRE FILL "B" BORROW TO BE USED AROUND PIPE AS EMBANKMENT IS BEING CONSTRUCTED.

NOTES

1. 12" SAND DRAINAGE BLANKET TO BE PLACED ON ALL AREAS OF WICK DRAIN AND STONE COLUMN STABILIZATION.
2. FOR SETTLEMENT STAKES & PLATES TABLE, SEE SHT. NO. 5.



DETAILS

WICK DRAIN AND STONE COLUMN LOCATIONS

JAMES S. GIBSON
REGISTERED
NO. 10288
STATE OF INDIANA
PROFESSIONAL ENGINEER
7-1-90

B-18986

PLATE 1 - PLAN - PROFILE B. R. R. STANDARD 1975

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
MAM-W940(2)	A	15	80	GIBSON 10288

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	MAMG-W940(2)	1987	16	80

SCALE: 1" = 10'

45' R/W

FACE OF ABUTMENT

FACE OF RETAINING WALL

LINE "A"
N 02°-55'-00"W

16+00

17+00

18+00

19+00

LINE "A"
N 02°-55'-00"W

6.92' 6.92'

8.0' 8.0'

8.0'

5" (TYP.)

BRIDGE COPING

FACE OF RETAINING WALL

+02

+10 +14 TRANSITION ZONE +42 +45

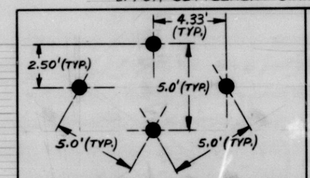
+10

▲ INDICATES WICK DRAIN LOCATIONS
● INDICATES STONE COLUMN LOCATIONS
× INDICATES SETTLEMENT STAKES AT GRADE
⊗ INDICATES TOE STAKES
□ INDICATES SETTLEMENT PLATE

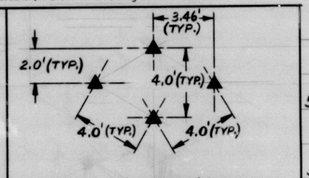
40' R/W

NOTES

1. 12" SAND DRAINAGE BLANKET TO BE PLACED ON ALL AREAS OF WICK DRAIN AND STONE COLUMN STABILIZATION.
2. FOR SETTLEMENT STAKES & PLATES TABLE, SEE SHT. NO. 5.



STONE COLUMN SPACING DETAIL
SCALE: 1/4" = 1'-0
STA. 16+00 "A" TO STA. 18+10 "A"
(TRANSITION ZONE SPACING @ 8'-0 c.-c.)



WICK DRAIN SPACING DETAIL
SCALE: 1/4" = 1'-0
STA. 18+45 "A" TO STA. 19+10 "A"

530
520
510
500
490
480
470
460

-9.00%

PROPOSED PROFILE GRADE

12" SAND DRAINAGE BLANKET

TOP OF STONE COLUMNS ELEV. 492.20

LIMITS OF STONE COLUMN STABILIZATION

TOP OF STONE COLUMNS ELEV. 492.20

12" SAND DRAINAGE BLANKET

LIMITS OF WICK DRAIN STABILIZATION

TOP OF WICK DRAINS ELEV. 490.97

12" SAND DRAINAGE BLANKET

BOTTOM OF STONE COLUMNS ELEV. 472.00

BOTTOM OF STONE COLUMNS ELEV. 475.00

BOTTOM OF WICK DRAINS ELEV. 475.00

+02 +75 +42 +45 +00 493.00 +10

+00 496.10 +50 494.31 +20 493.68 +50 493.44 +00 493.30 +47 493.18

16 17 18 19

DETAILS

WICK DRAIN AND STONE COLUMN LOCATIONS

James A. Rice 2-1-90

JAMES S. RICE REGISTERED NO. 19939 STATE OF INDIANA PROFESSIONAL ENGINEER

B-18986

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
MAMG-W940(2)	A	16	80	GIBSON 10288

PLATE 1 - PLAN - PROFILE R. P. E. STANDARD 1975

TP114

UTILITIES

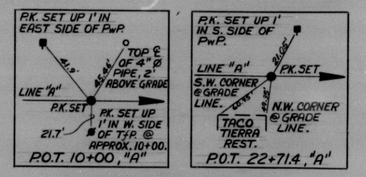
PUBLIC SERVICE INDIANA HIGHWAY 64 WEST P.O. BOX 550 PRINCETON, IN 47670 PH. 812/385-2551	**PRINCETON WATER DEPT.** **NORTH SEMINARY ST.** P.O. BOX 15 PRINCETON, IN 47670 PH. 812/385-2650
CONTINENTAL TELEPHONE OF IND., INC. P.O. BOX 730 JASPER, IN 47547 PH. 812/482-2605	PRINCETON SEWER DEPT. SOUTH RICHLAND CREEK DRIVE PRINCETON, IN 47670 PH. 812/385-3343
TCI OF INDIANA 101 WEST BROADWAY P.O. BOX 327 PRINCETON, IN 47670 PH. 812/386-7066	HOOSIER GAS CORP. 111 WEST BROADWAY P.O. BOX 7 PRINCETON, IN 47670 PH. 812/385-5027

PRESENT STRUCTURE

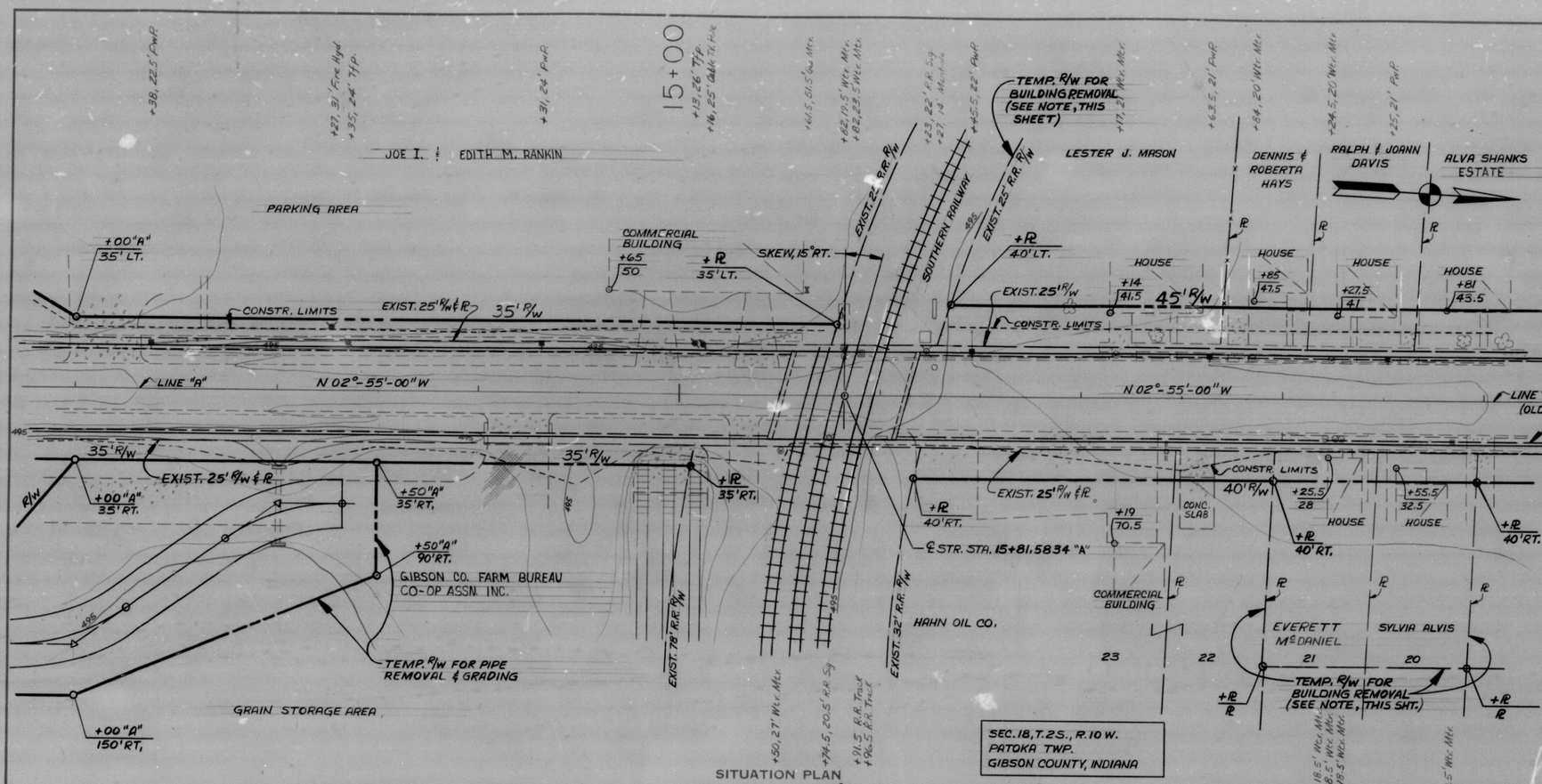
NONE

PRECAST CONCRETE FACING (TYP.)

NOTE: AREAS OF TEMP. R/W FOR BUILDING REMOVAL TO BE MULCH-SEEDED.

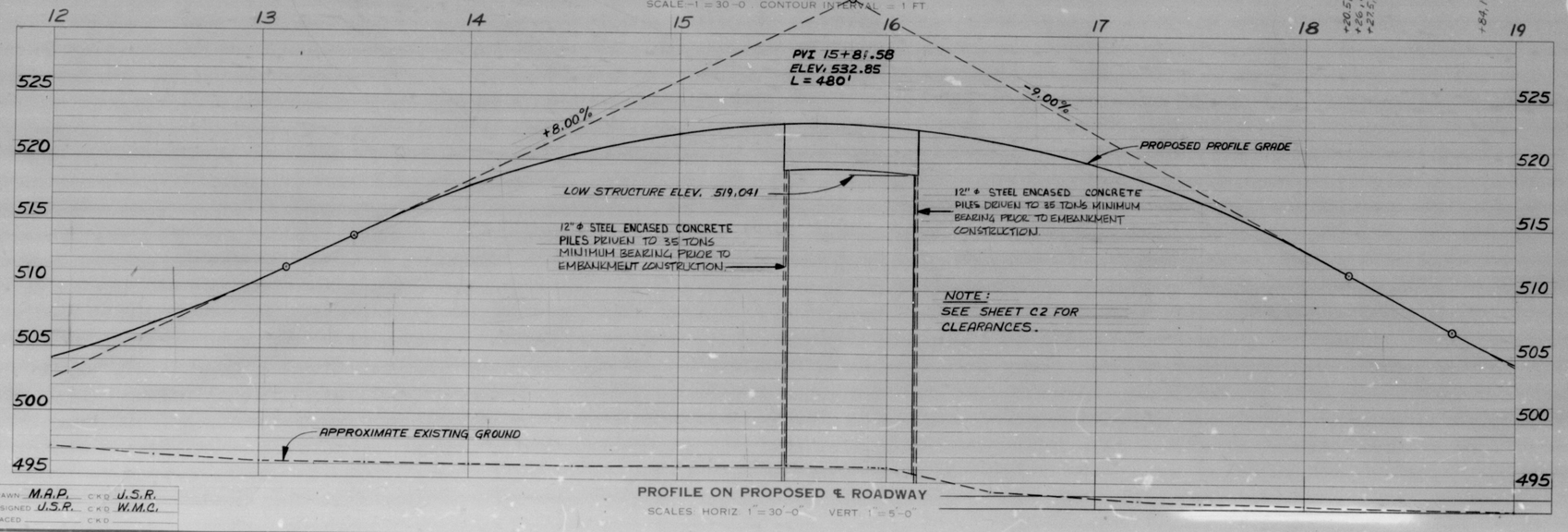


ALIGNMENT REFERENCES



SITUATION PLAN

SCALE: 1" = 30'-0" CONTOUR INTERVAL = 1 FT



PROFILE ON PROPOSED ℄ ROADWAY

SCALES: HORIZ. 1" = 30'-0" VERT. 1" = 5'-0"

DRAWN M.A.P. CK'D J.S.R.
DESIGNED J.S.R. CK'D W.M.C.
TRACED CK'D

PRECAST PRESTRESSED CONCRETE BOX BEAM BRIDGE

1 SPAN: 65'-2

SKEW: 15° RIGHT

40'-0 CLEAR ROADWAY

ON OLD U.S. 41 (S. MAIN ST.) OVER

THE SOUTHERN RAILWAY

LAYOUT

INDIANA DEPARTMENT OF HIGHWAYS

GIBSON COUNTY

SCALE: AS NOTED DATE: 2-1-90

RECOMMENDED FOR APPROVAL: James A. Rice

DRAWING C1 OF C7 SHEET 17 OF 80

PROJECT: MAMG-W940 (2) STATION: 15+81.5834 "A"

BRIDGE CONTRACT NO. B-18986

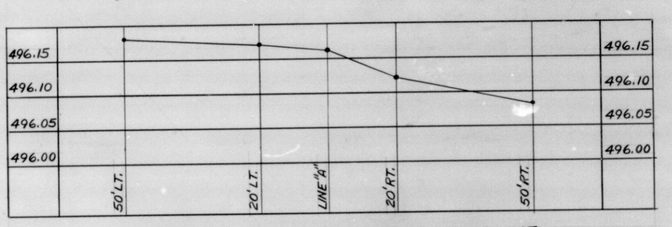
BRIDGE FILE: GIBSON 10288

JAMES S. RICE REGISTERED NO. 19388 STATE OF INDIANA PROFESSIONAL ENGINEER

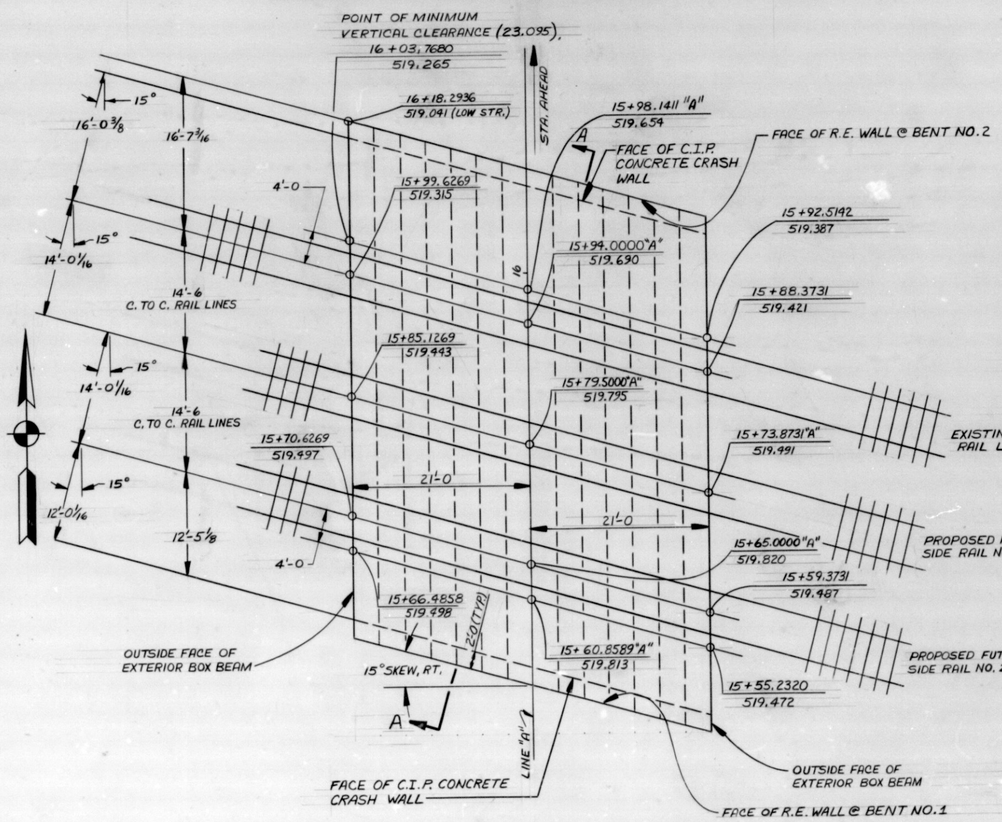
TP117

TABLE OF CLEARANCES

LOCATION	20' LT.	LINE "A"	20' RT.
STA. 16+03.7680 TOP OF SOUTH RAIL, MAIN LINE	519.265		
CLEARANCE	496.170		
	23.095		
STA. 15+98.1411 TOP OF SOUTH RAIL, MAIN LINE		519.654	
CLEARANCE		496.160	
		23.494	
STA. 15+92.5142 TOP OF SOUTH RAIL, MAIN LINE			519.387
CLEARANCE			496.120
			23.267



PROFILE - TOP OF SOUTH RAIL, MAIN LINE

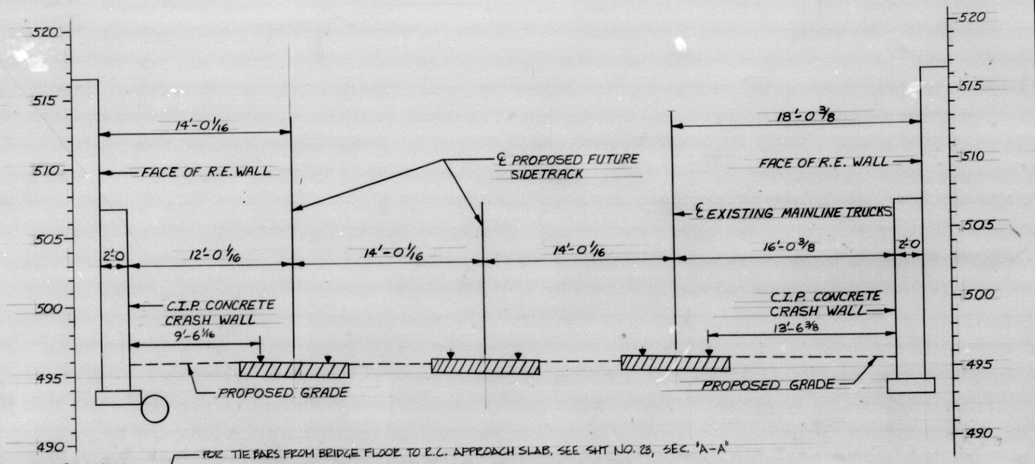


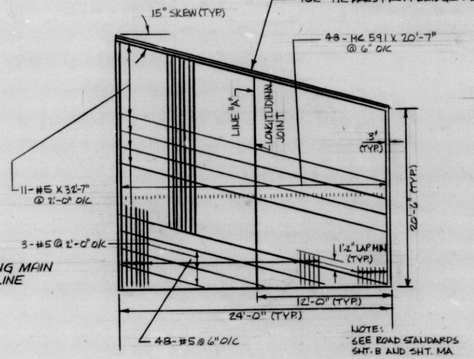
LOW STRUCTURE ELEVATIONS AT POINTS OF VERTICAL CLEARANCE

SCALE : 1/8" = 1'-0

NOTES

1. SEE DRAWING C-3 FOR GENERAL NOTES.
2. THE SOUTH RAIL OF THE EXISTING MAIN RAIL LINE CONTROLS AS MAIN LINE IS SUPERELEVATED DUE TO HORIZONTAL CURVE IMMEDIATELY WEST OF PROJECT CROSSING.
3. PROPOSED SIDE RAILS TO BE CONSTRUCTED AT ELEVATIONS LOWER THAN OR EQUAL TO THE SOUTH RAIL ELEVATIONS OF THE EXISTING MAIN LINE IN ORDER FOR 23'-0 TOP OF RAIL TO LOW STRUCTURE ELEVATION CLEARANCE TO BE MAINTAINED.
4. FOR PARALLEL TRACK DRAINAGE, SEE SHT. NO. 11.
5. FOR C.I.P. CONCRETE CRASH WALL DETAILS, SEE SHT. NO. 34.





DETAIL OF R.C. BRIDGE APPROACH

NO SCALE

SECTION A-A

SCALE : 1" = 5'-0

BILL OF MATERIALS (ONE APPROACH)

SIZE OR MK.	NO. OF PCS.	LENGTH	WEIGHT
#5	11	32'-7"	373.8
#5	1	20'-6"	21.4
#5	1	3'-0"	13.6
#5	1	6'-0"	6.3
#5	4	8'-6"	35.5
#5	4	8'-0"	33.4
#5	4	7'-6"	31.3
#5	4	7'-0"	29.2
#5	4	6'-6"	27.1
#5	4	6'-0"	25.0

SIZE OR MK.	NO. OF PCS.	LENGTH	WEIGHT
#5	4	5'-6"	22.9
#5	4	5'-0"	20.9
#5	4	4'-0"	16.7
#5	4	3'-6"	14.6
#5	4	3'-0"	12.5
#5	4	2'-6"	10.4
MK 591	48	20-7"	1030.5
TOTALS			1,725.1#

PRECAST PRESTRESSED CONCRETE BOX BEAM BRIDGE
1 SPAN : 65'-2
SKEW : 15° RIGHT
40'-0 CLEAR ROADWAY
ON OLD U.S. 41 (S. MAIN ST.) OVER
THE SOUTHERN RAILWAY

LAYOUT

INDIANA DEPARTMENT OF HIGHWAYS
GIBSON COUNTY

SCALE:- AS NOTED

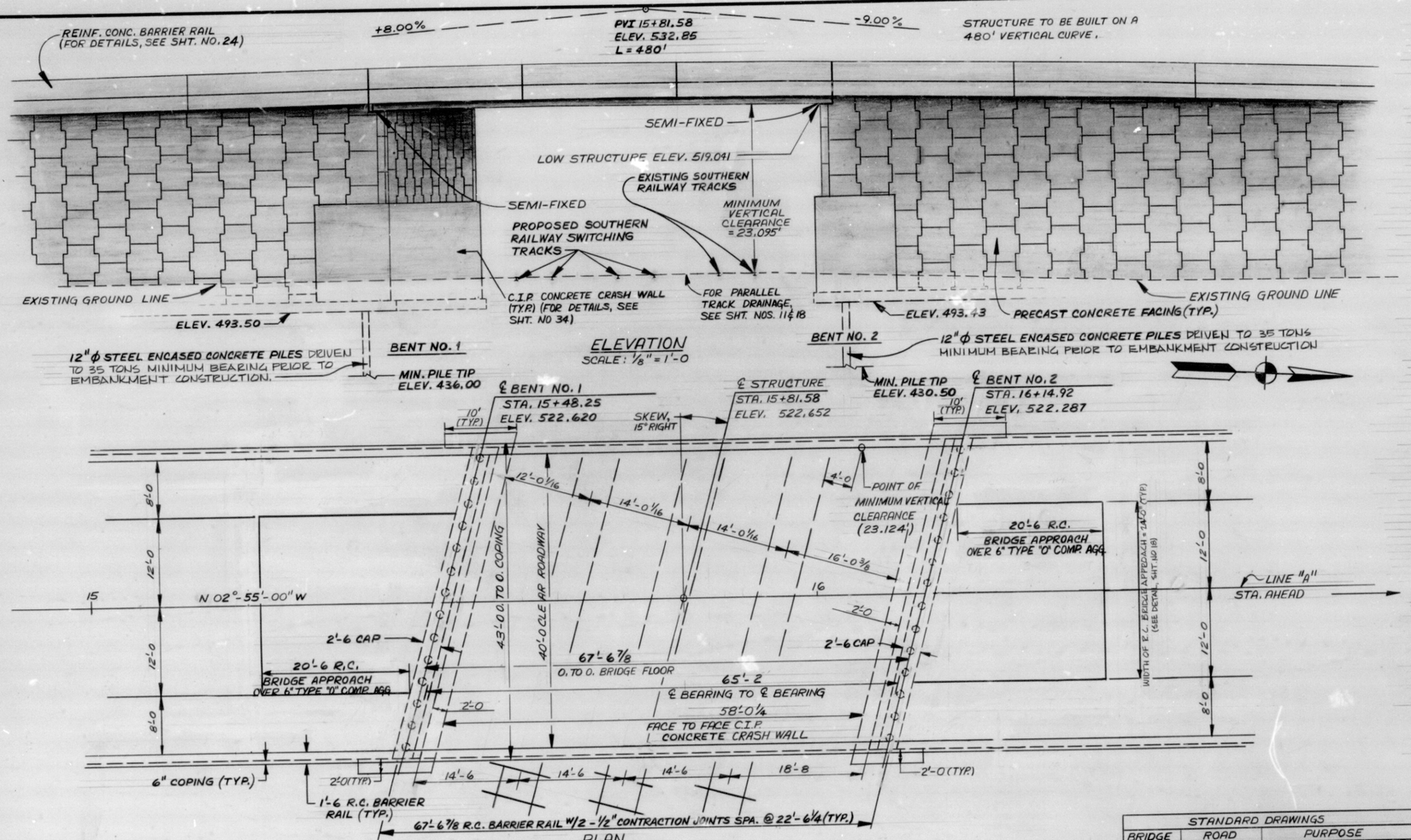
DATE:- 2-1-90

James A Rice

JAMES S. RICE REGISTERED NO. 13099 STATE OF INDIANA PROFESSIONAL ENGINEER

DESIGNED U.S.R. C'K'D W.M.C.
DRAWN M.A.P. C'K'D J.S.R.
TRACED C'K'D

DRAWING:- C2 OF C7 SHEET:- 18 OF 80
PROJECT:- MAMG-W940 (2)
CONTRACT NO. B-18986
BRIDGE FILE:- GIBSON 10288



DESIGN DATA

LIVE LOAD: DESIGNED FOR HS 20-44 LOADING IN ACCORDANCE WITH 1983 A.A.S.H.T.O. SPECIFICATIONS AND ALL SUBSEQUENT INTERIMS, CHECKED FOR SPECIAL LOADING OF 2-24,000# AXLES, SPACED AT 4'-0 CENTERS.

DEAD LOAD: ACTUAL PLUS 35 LBS. PER SQUARE FOOT FUTURE WEARING SURFACE.

NOTES

1. FOR HORIZONTAL AND VERTICAL CLEARANCES OF GRADE SEPARATION STRUCTURE, SEE DRAWING C2, SHT. NO. 18.
2. THE CITY OF PRINCETON SHALL MAINTAIN, OR PROVIDE FOR THE MAINTENANCE OF THE BRIDGE STRUCTURE, APPROACH GRADES, AND ALL OTHER HIGHWAY FACILITIES.
3. THE RAILROAD SHALL MAINTAIN ITS OWN ROADWAY AND TRACK, THE STRUCTURES SUPPORTING THE SAME, THE DRAINAGE THEREOF AND ALL OTHER RAILROAD FACILITIES.

GENERAL NOTES

1. NO PRESENT STRUCTURE AT PROPOSED BRIDGE SITE.
2. PILES SHALL HAVE MINIMUM BEARING VALUE SHOWN ON DETAIL DRAWINGS. DETERMINE PILE LENGTHS BY ARTICLE 701 OF THE STANDARD SPECIFICATIONS
3. TOLERANCE IN POSITION OF PILE HEAD MAXIMUM 2" IN END BENTS.
4. PILES SHALL BE DRIVEN TO ELEVATION SHOWN ON DETAIL DRAWINGS OR BELOW IF NECESSARY TO OBTAIN REQUIRED BEARINGS. FOR DETAILS OF STEEL ENCASED CONCRETE PILES, OR PRESTRESSED PILES. SEE BRIDGE STANDARD C1, AND C4, AND APPLICABLE ARTICLES IN THE STANDARD SPECIFICATIONS.
5. PILES TO BE DRIVEN BEFORE EMBANKMENT CONSTRUCTION AND THE "B" BORROW EMBANKMENT CONSTRUCTED AROUND PILES. PILES SHOULD BE COATED WITH BITUMINOUS MATERIAL TO PREVENT DOWNDRAG DURING EMBANKMENT CONSTRUCTION (SEE SPECIAL PROVISIONS).
6. DEPTH OF FOOTINGS TO BE EXTENDED IF FOUND NECESSARY. SEE ARTICLE 206.11(C) OF STANDARD SPECIFICATIONS.
7. REINFORCING STEEL IN DECK TO BE EPOXY COATED.
8. REINFORCING STEEL COVER SHALL BE: 2½" IN TOP OF FLOOR SLAB; 2" IN ALL OTHER PARTS UNLESS OTHERWISE NOTED.
9. CONCRETE IN SUPERSTRUCTURE AND BARRIER RAILINGS TO BE CLASS "C"
10. CONCRETE IN BENT CAPS TO BE CLASS "A".
11. CONTINUOUS CONCRETE POURS SHALL BE REQUIRED BETWEEN CONSTRUCTION JOINTS AS SHOWN ON DETAIL DRAWINGS
12. CHAMFER EXPOSED EDGES 1" UNLESS OTHERWISE NOTED.
13. TOP OF MUDWALLS, FRONT FACE OF MUDWALLS, TOP OF BRIDGE SEATS, FRONT FACE OF BENT CAPS, ALL EXPOSED FACES OF BENT COPING (WINGS), BRIDGE DECK, ALL FACES OF BARRIER RAILING, FACE OF COPINGS, UNDERSIDE OF COPINGS TO BE SURFACE SEALED. ESTIMATED QUANTITY = 15,362 SQ.FT.
14. SEE SHEET NOS. 2 & 3 FOR TYPICAL CROSS SECTIONS.

STANDARD DRAWINGS		
BRIDGE	ROAD	PURPOSE
C1		GENERAL NOTES, FIELD PILE SPLICING
C3		CONSTR. JT. TYPE A
C4		PRESTRESSED CONC. PILES
BR5		CONCRETE RAILING
PB6		PRESTRESSED CONC. BOX BEAMS
PB9c		PRESTR. BOX BEAMS 27"x3'-0 WIDE
PB10		TOLERANCES FOR PRESTR. BEAMS
PB11		ELASTOMERIC BRG. PAD DETAILS
	A & B	WIRE FABRIC R.C. BR. APP.
	MA	R/W MARKER
	MC	CASTINGS
	MC-1	CASTINGS
	MD	INLETS
	MD-1	CATCH BASINS/MANHOLES
	MD-2	CATCH BASINS
	MD-3	MANHOLES
	ME	CURB & GUTTER
	ME-2	PIPE END SECTIONS
	MH-3	MAILBOXES
	MN	STRUCTURE BACKFILL
	MN-1	BEDDING DETAIL, CLASS "B"
	MP	PIPES
	MP-1	PIPES
	MR	FENCE
	MT-3, MT-4	TRAFFIC SIGNS
	GR-2	GUARD RAIL TYPE "B" / STREET CLOSURE
	STD. DET. SHT.	STANDARD DETOUR SIGNS
	1,2,2A,3,4 & 5	FOR MARKING URBAN DETOUR

GENERAL PLAN
PRECAST PRESTRESSED CONCRETE BOX BEAM BRIDGE
1 SPAN: 65'-2
SKEW: 15° RIGHT
40'-0 CLEAR ROADWAY
ON OLD U.S. 41 (S. MAIN ST.)
OVER THE SOUTHERN RAILWAY

INDIANA DEPARTMENT OF HIGHWAYS

GIBSON COUNTY

SCALE:- AS NOTED

DATE:- 2-1-90

James A Rice

JAMES S. RICE REGISTERED NO. 10380 STATE OF INDIANA PROFESSIONAL ENGINEER

DRAWING:- C3 OF C7 SHEET:- 19 OF 80

PROJECT:- MAMG-W940 (2)

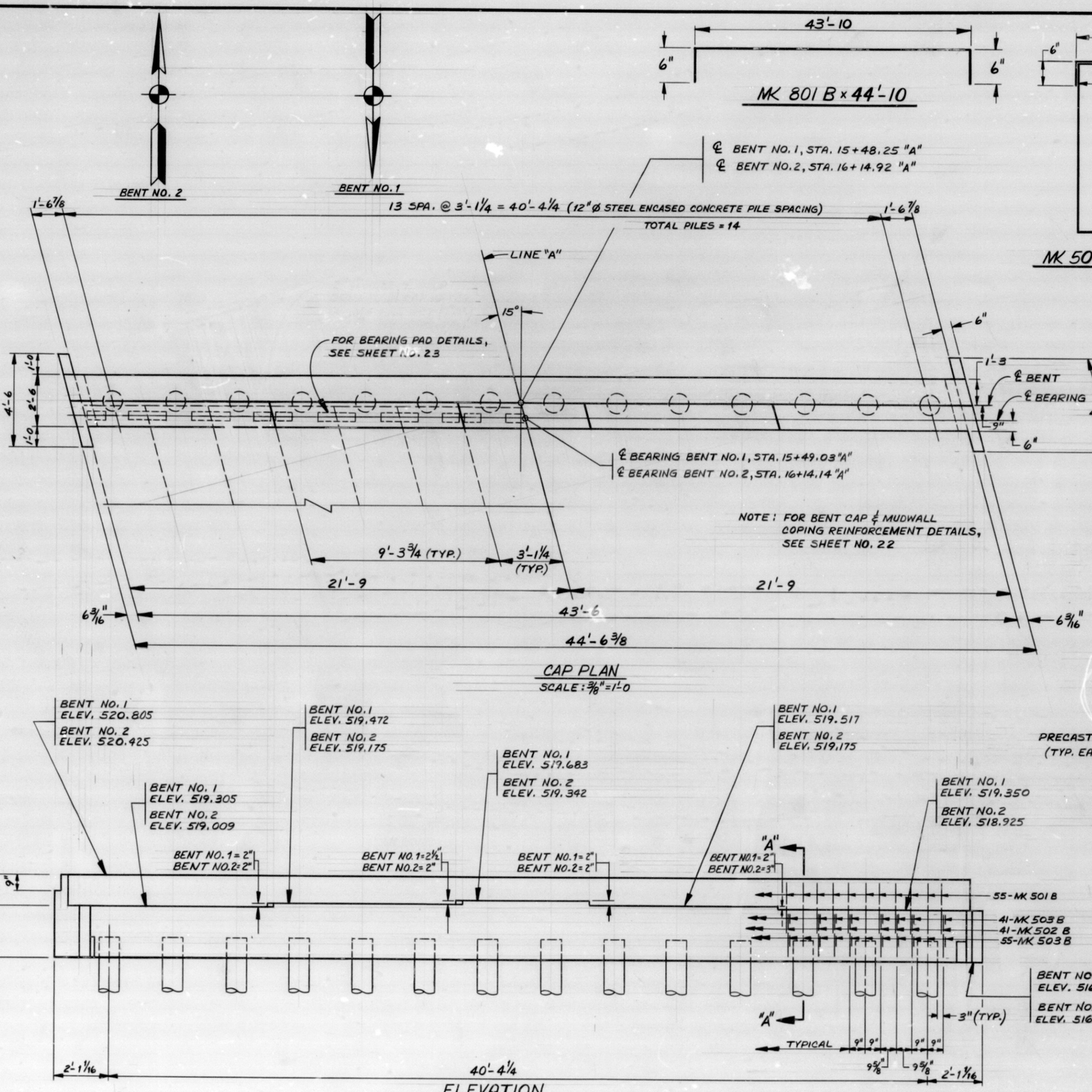
CONTRACT NO. B-18986

BRIDGE FILE:- GIBSON 10288

DESIGNED J.S.R. C'K'D W.M.C.
DRAWN M.A.P. C'K'D J.S.R.
TRACED ____ C'K'D ____

Rev. 12-12-90, GR1 TO GR-2 and Guard Rail Type 'A' to '81"

TP101



BILL OF MATERIALS
ONE BENT ONLY

SIZE OR MK	NO. OF PIECES	LENGTH	WEIGHT
#4	2	11"	1.2
#4	2	1'-10	2.5
#4	6	4'-0	16.0
#4	2	2'-10	3.8
#4	4	3'-8	9.8
#4	6	2'-0	8.0
		TOTAL #4	41.3
MK 501 B	55	7'-10	449.4
MK 502 B	41	7'-6	320.7
MK 503 B	96	3'-2	317.1
		TOTAL # 5	1,087.2
#8	7	44'-0	822.4
MK 801 B	7	44'-10	837.9
		TOTAL #8	1,660.3
TOTAL REINFORCING			2,788.8

CONCRETE

CLASS "A" IN SUBSTRUCTURE	14.0 CYS.

MISCELLANEOUS

12" Ø, 7GA. STEEL ENCASED CONCRETE PILES

BENT NO. 1 14 x 82'	1,148 LFT.
BENT NO. 2 14 x 87'	1,218 LFT.
SURFACE SEAL	327 SFT.

DESIGNED ____ C'K'D ____
DRAWN ____ C'K'D ____
TRACED ____ C'K'D ____

BENT NO. 1 & NO. 2 DETAILS AND BILL OF MATERIALS

INDIANA DEPARTMENT OF HIGHWAYS

GIBSON COUNTY

SCALE:- AS NOTED

DATE:- 2-1-90

James S. Rice

DRAWING:- C4 OF C7 SHEET:- 20 OF 80

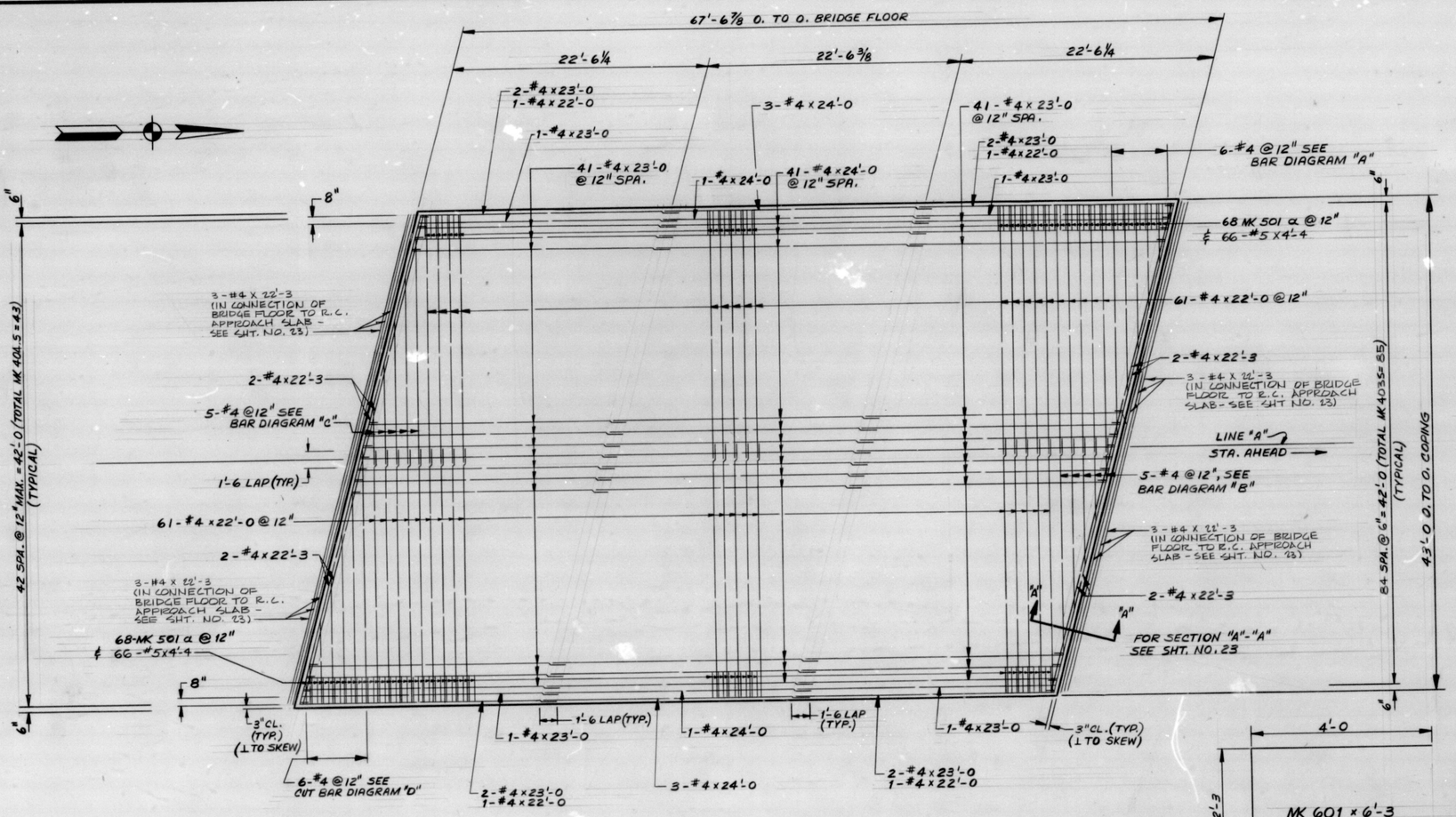
PROJECT:- MANG-W940 (2)

CONTRACT NO. B-18986

BRIDGE FILE:- GIBSON 10288

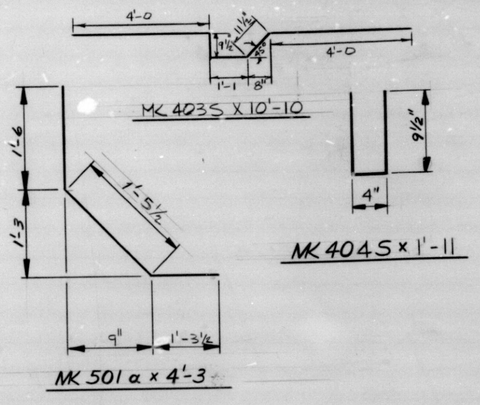
JAMES S. RICE — NO. 10398 — STATE OF INDIANA — REGISTERED PROFESSIONAL ENGINEER

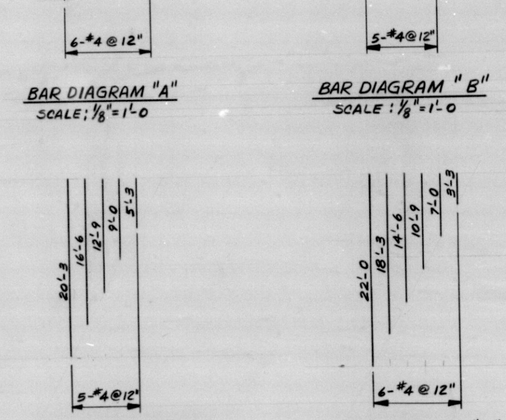
TP101

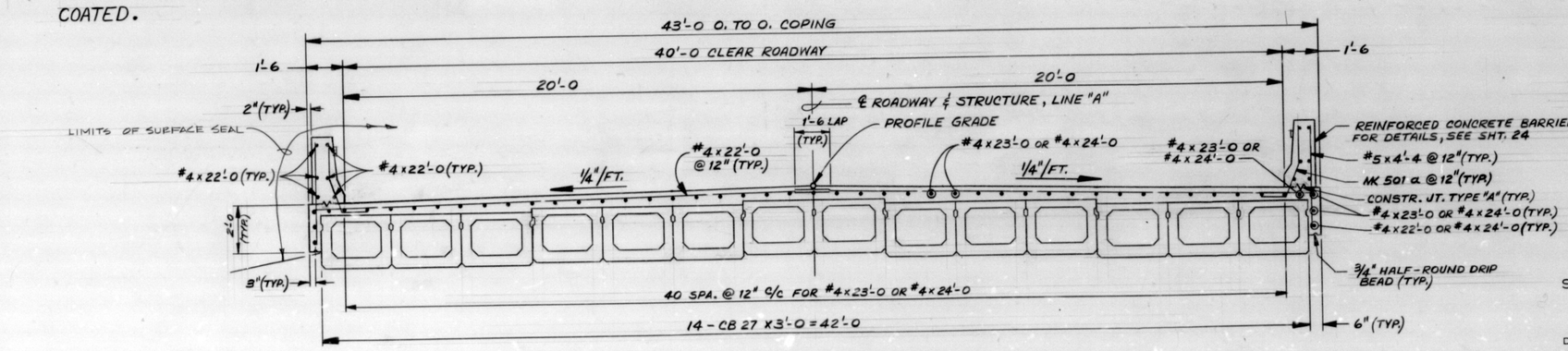


PLAN
SCALE: 3/16" = 1'-0

NOTE: ALL REINFORCING STEEL IN DECK, DECK COPING, SPANDREL BEAMS, AND BARRIER RAIL TO BE EPOXY COATED.







SECTION ⊥ ℄ STRUCTURE
SCALE: 3/8" = 1'-0

SUPERSTRUCTURE DETAILS

INDIANA DEPARTMENT OF HIGHWAYS

SCALE:- AS NOTED

DATE:- 2-1-90

DESIGNED _____ C'K'D _____
DRAWN _____ C'K'D _____
TRACED _____ C'K'D _____

SF-22317

DRAWING:- C5 OF C7 SHEET:- 21 OF 80

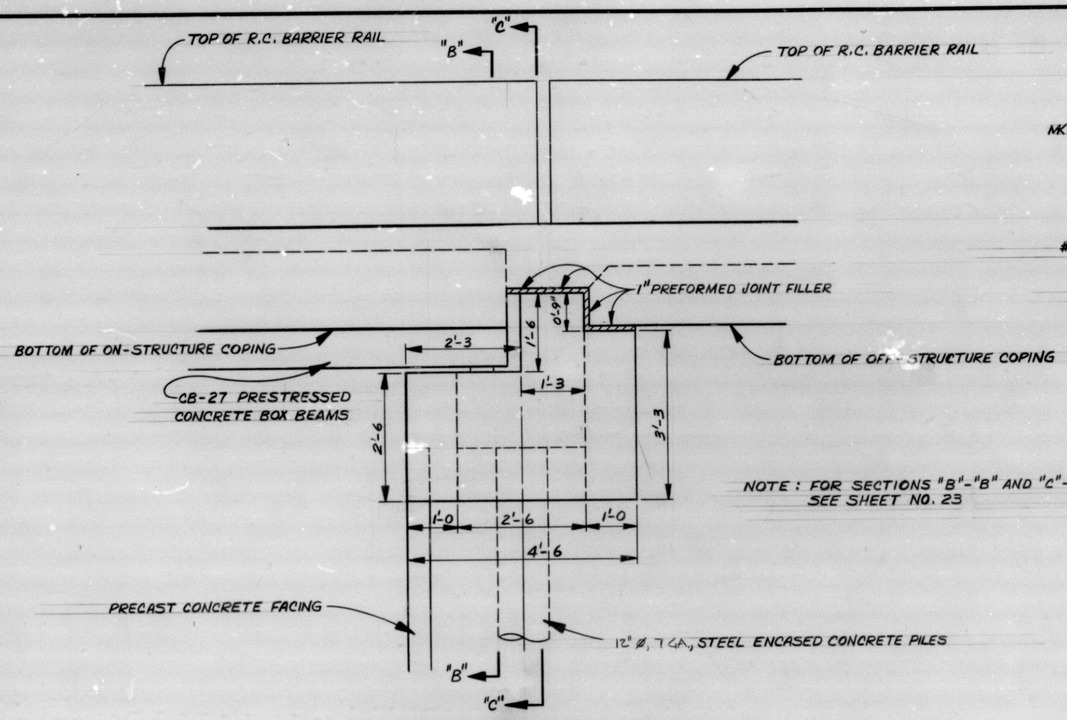
PROJECT:- MAM4-W940 (2) STATION:- 15+81.5834 "A"

BRIDGE CONTRACT NO. B-18986

BRIDGE FILE:- GIBSON 10288

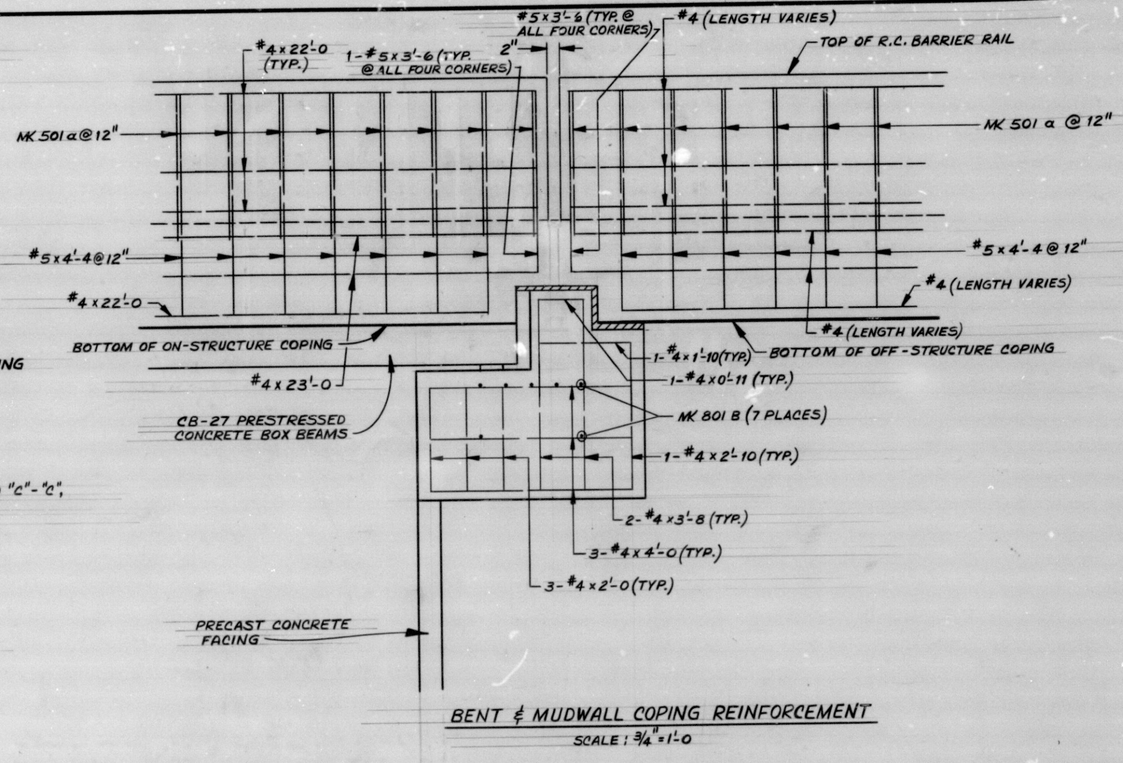
JAMES S. RICE REGISTERED NO. 19360 STATE OF INDIANA PROFESSIONAL ENGINEER

TP101

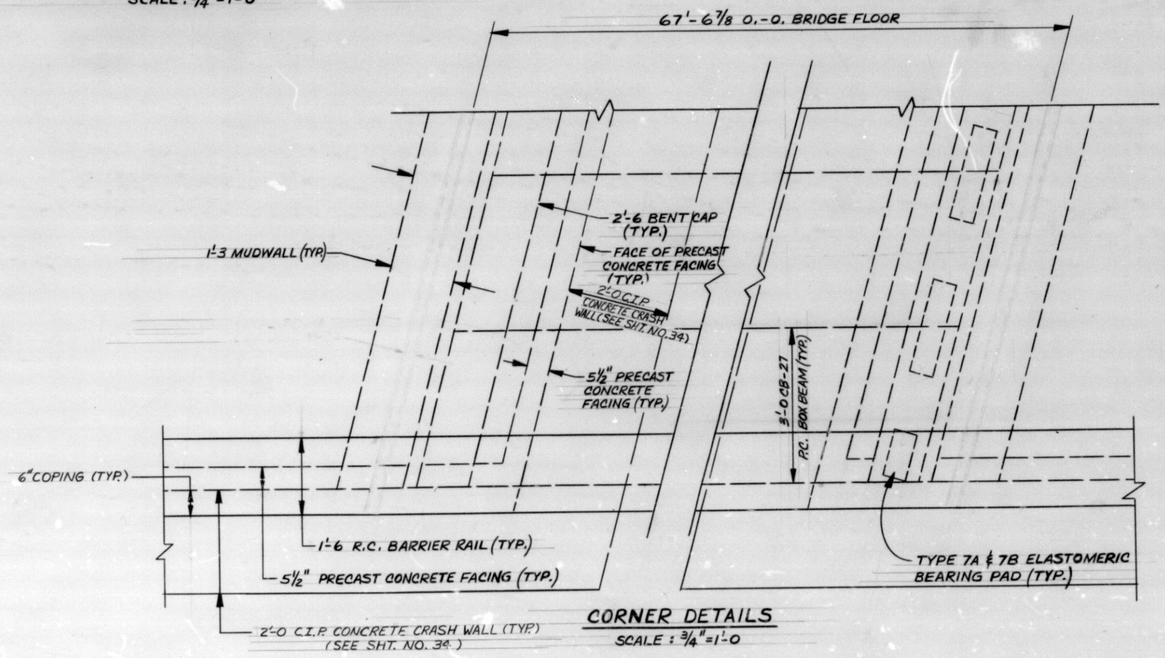


NOTE : FOR SECTIONS "B"-"B" AND "C"-"C", SEE SHEET NO. 23

BENT & MUDWALL COPING DETAILS
(DIMENSIONS ⊥ SKEW)
SCALE : 3/4" = 1'-0



BENT & MUDWALL COPING REINFORCEMENT
SCALE : 3/4" = 1'-0



CORNER DETAILS
SCALE : 3/4" = 1'-0

NOTE : ALL REINFORCING STEEL IN DECK, DECK COPING, SPANDREL BEAMS, AND BARRIER RAIL TO BE EPOXY COATED.

SUPERSTRUCTURE DETAILS

INDIANA DEPARTMENT OF HIGHWAYS

GIBSON COUNTY

SCALE:- AS NOTED

DATE:- 2-1-90

James A. Rice

DRAWING:- C6 OF C7 SHEET:- 22 OF 80

PROJECT:- MAMG-W940 (2) STATION:- 15-81.5834 "A"

BRIDGE CONTRACT NO. B-18986

BRIDGE FILE:- GIBSON 10288

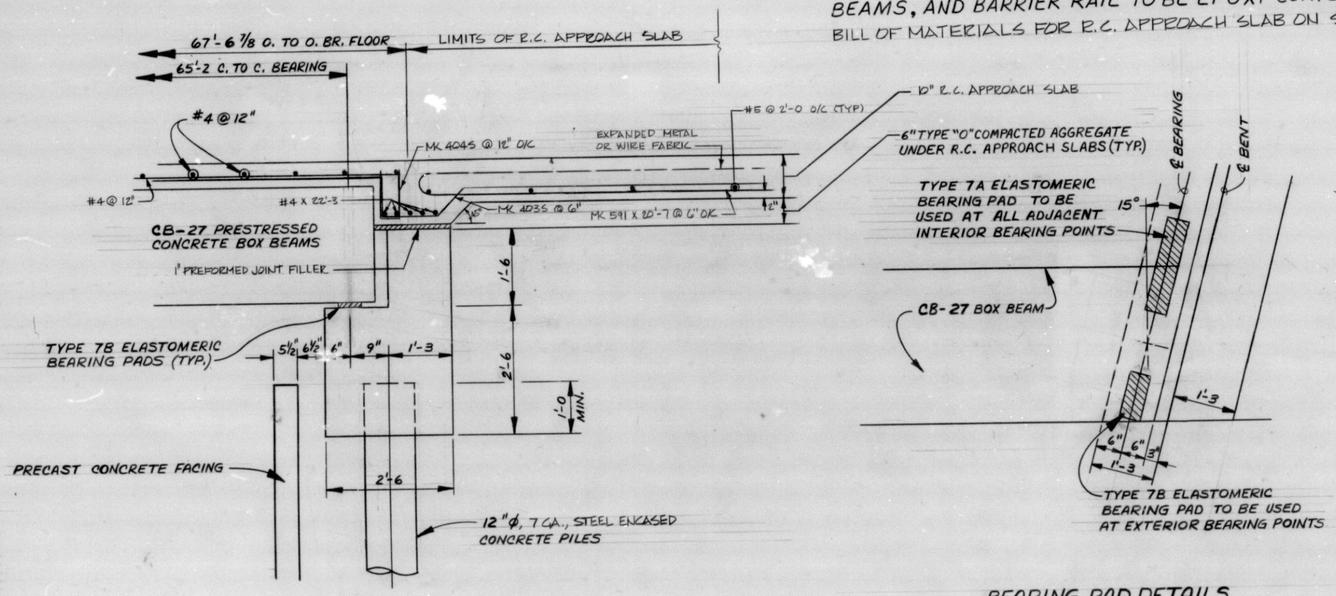
JAMES S. RICE REGISTERED NO. 19389 STATE OF INDIANA PROFESSIONAL ENGINEER

DESIGNED _____ C'K'D _____
DRAWN _____ C'K'D _____
TRACED _____ C'K'D _____

SF-22317

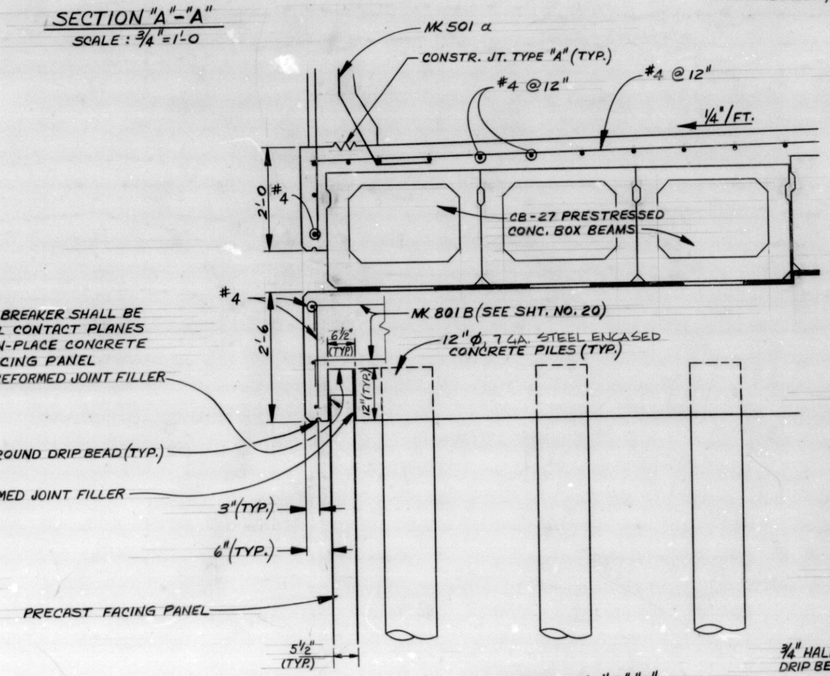
TP101

NOTE: ALL REINFORCING STEEL IN DECK, DECK COPING, SPANDREL BEAMS, AND BARRIER RAIL TO BE EPOXY COATED.
BILL OF MATERIALS FOR R.C. APPROACH SLAB ON SHEET 18.

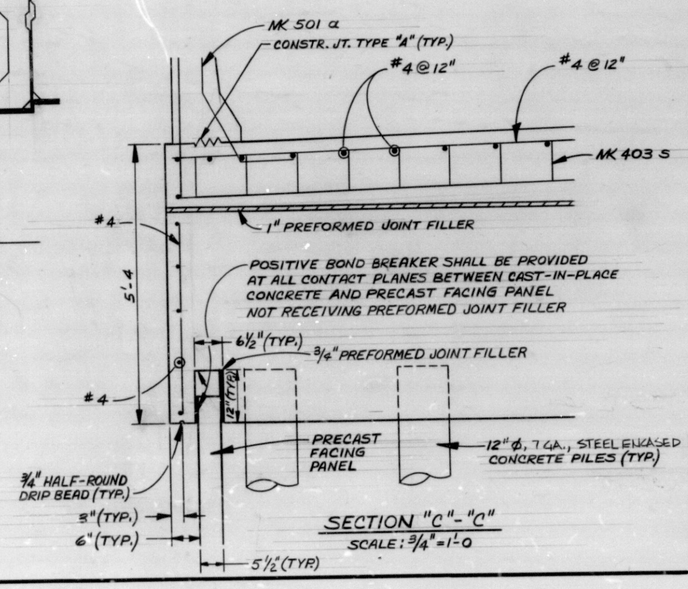


BEARING PAD DETAILS
SCALE: 3/4" = 1'-0

SECTION "A"-"A"
SCALE: 3/4" = 1'-0



SECTION "B"-"B"
SCALE: 3/4" = 1'-0



SECTION "C"-"C"
SCALE: 3/4" = 1'-0

BILL OF MATERIALS SUPERSTRUCTURE

SIZE OR MK	NO. OF PIECES	LENGTH	WEIGHT
#4	1	1'-6	1.0
#4	2	3'-3	4.3
#4	2	5'-3	7.0
#4	2	7'-0	9.4
#4	2	9'-0	12.0
#4	2	10'-9	14.4
#4	2	12'-9	17.0
#4	2	14'-6	19.4
#4	2	16'-6	22.0
#4	2	18'-3	24.4
#4	2	20'-3	27.1
#4	162	22'-0	2,380.8
#4	20	22'-3	297.3
#4	94	23'-0	1,444.2
#4	49	24'-0	785.6
MK 403 S	172	10'-10	1,244.7
MK 404S	86	1'-11	110.1
		TOTAL #4	6,420.7
#5	4	3'-6	14.6
#5	132	4'-4	596.6
MK 501 a	136	4'-3	602.9
		TOTAL #5	1,214.1
TOTAL EPOXY COATED REINFORCING			7,634.8

CONCRETE	
CLASS "C" IN SUPERSTRUCTURE	69.7 CYS.
CLASS "C" IN BARRIER RAIL	13.2 CYS.

MISCELLANEOUS	
PRECAST PRESTRESSED CONCRETE BOX BEAMS (CB 27 X 36")	2779 SFT.
SURFACE SEAL	3,927 SFT.

SUPERSTRUCTURE DETAILS AND BILL OF MATERIALS

INDIANA DEPARTMENT OF HIGHWAYS

GIBSON COUNTY

SCALE:- AS NOTED

DATE:- 2-1-90

DESIGNED _____ C'K'D _____
DRAWN _____ C'K'D _____
TRACED _____ C'K'D _____

SF-22317

DRAWING:- C7 OF C7 SHEET:- 23 OF 80

PROJECT:- HAMI-W940 (2) STATION:- 15+81.5634"A"

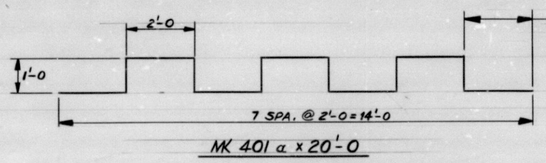
BRIDGE CONTRACT NO. B-18986

BRIDGE FILE:- GIBSON 10288

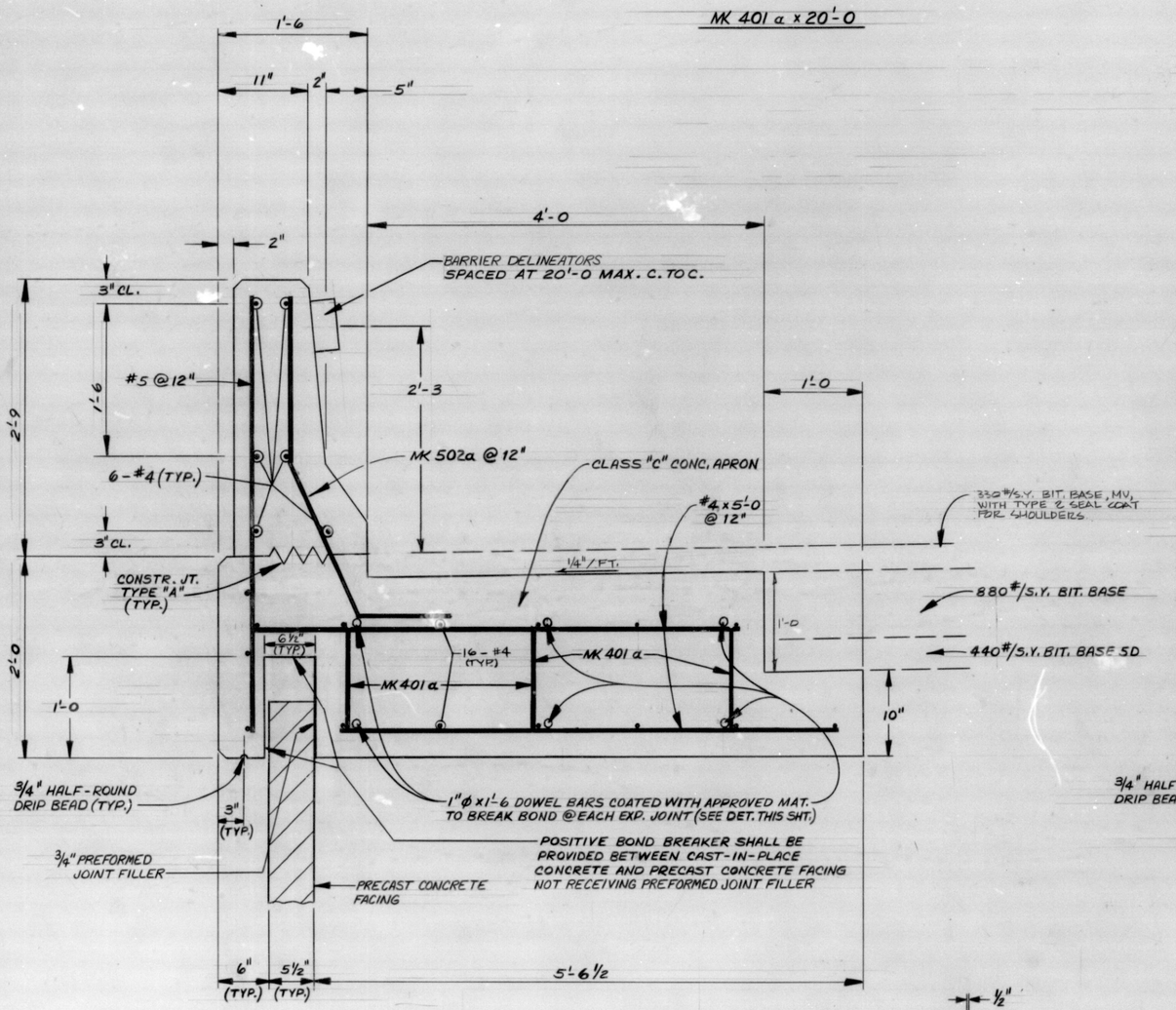
JAMES S. RICE — REGISTERED — NO. 10387 — STATE OF INDIANA — PROFESSIONAL ENGINEER

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	MAHL-N940(2)	1987	24	80

NOTE: ALL REINFORCING STEEL IN DECK, DECK COPING, APRON, AND BARRIER RAIL TO BE EPOXY COATED.



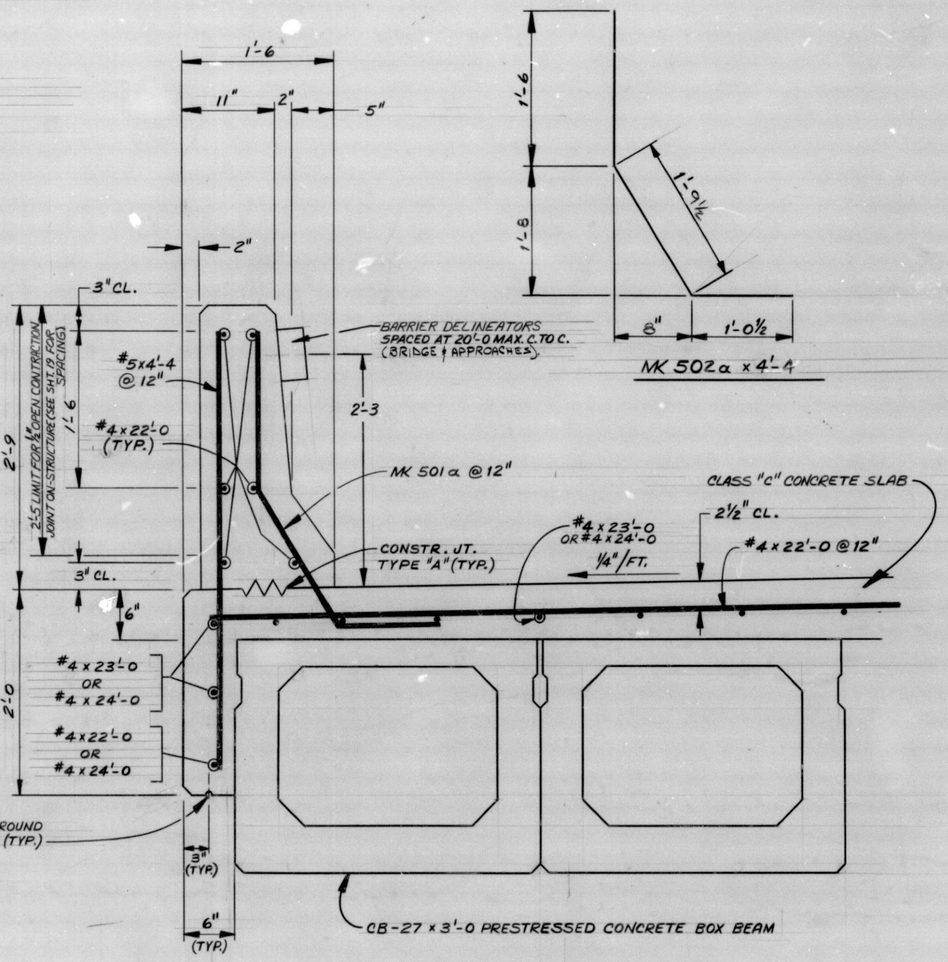
MK 401 a x 20'-0



BARRIER RAIL & COPING/APRON DETAIL

OFF-STRUCTURE

SCALE: 1½" = 1'-0



NOTE: SEE SHT. 19 FOR ON-STRUCTURE BARRIER RAIL CONTRACTION JOINT SPACING

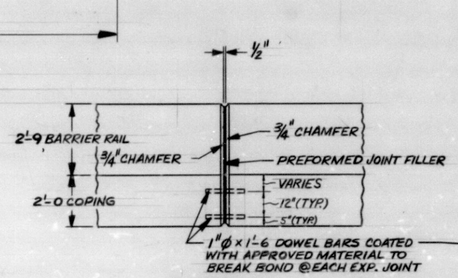
BARRIER RAIL/COPING DETAIL

ON-STRUCTURE

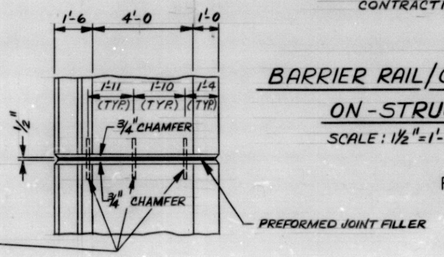
SCALE: 1½" = 1'-0

JOINT NOTES:

1. 1" DEEP SAWED GROOVE TYPE CONTRACTION JOINT TO BE PROVIDED FOR OFF-STRUCTURE BARRIER RAIL AND COPING/APRON AT 25' INTERVALS.
2. EXPANSION JOINT TO PROVIDED FOR OFF-STRUCTURE BARRIER RAIL AND COPING/APRON AT 100' INTERVALS.



ELEVATION



PLAN

EXPANSION JOINT DETAIL

SCALE: ⅜" = 1'-0

REINFORCED CONCRETE BARRIER RAIL

DETAILS

2-1-90

James A. Rice

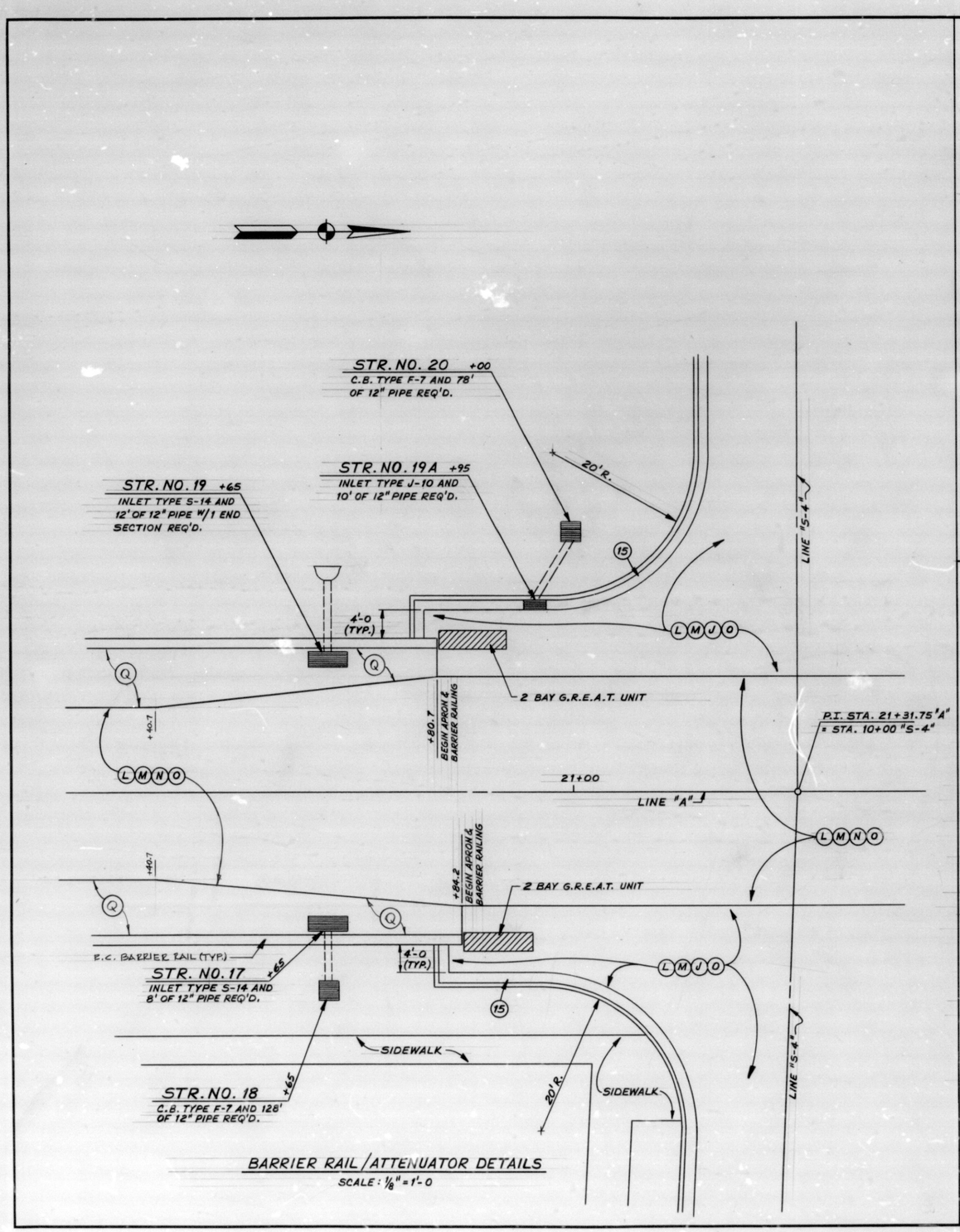
JAMES S. RICE REGISTERED NO. 10981 STATE OF INDIANA PROFESSIONAL ENGINEER

B-18986

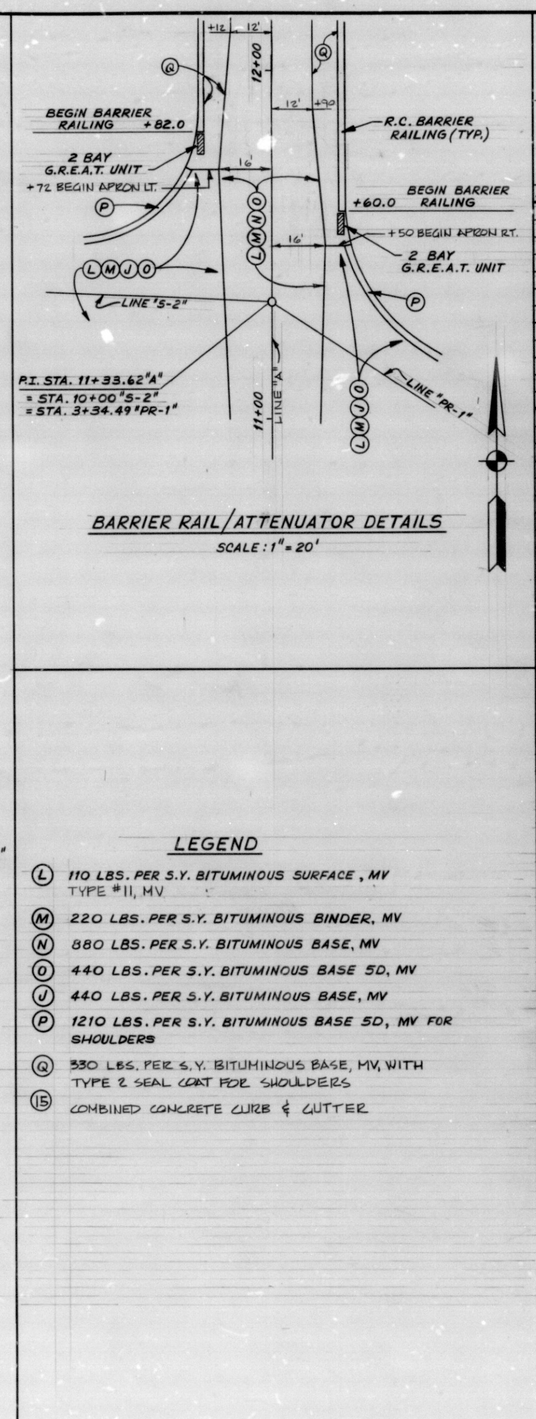
1976

TP107

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	HAHC-W940 (2)	1987	25	80



BARRIER RAIL/ATTENUATOR DETAILS
SCALE: 1/8" = 1'-0



BARRIER RAIL/ATTENUATOR DETAILS
SCALE: 1" = 20'

LEGEND

- (L) 110 LBS. PER S.Y. BITUMINOUS SURFACE, MV TYPE #11, MV
- (M) 220 LBS. PER S.Y. BITUMINOUS BINDER, MV
- (N) 880 LBS. PER S.Y. BITUMINOUS BASE, MV
- (O) 440 LBS. PER S.Y. BITUMINOUS BASE 5D, MV
- (J) 440 LBS. PER S.Y. BITUMINOUS BASE, MV
- (P) 1210 LBS. PER S.Y. BITUMINOUS BASE 5D, MV FOR SHOULDERS
- (Q) 330 LBS. PER S.Y. BITUMINOUS BASE, MV, WITH TYPE 2 SEAL COAT FOR SHOULDERS
- (15) COMBINED CONCRETE CURB & GUTTER

BILL OF MATERIALS OFF-STRUCTURE COPING/APRON

SIZE OR MK	NO. OF PCS.	LENGTH	WEIGHT
STA. 11+72.0 LT. TO 15+52.5 LT.			
#4	762	5'-0	2,545.1
#4	1	19'-6	13.0
#4	15	20'-6	205.4
#4	64	21'-8	926.3
#4	112	40'-0	2,992.6
MK 401a	84	20'-0	1,122.2
TOTAL #4			7,804.6
DOWELS 1" Ø x 1'-6			18 EA.
STA. 16+20.3 LT. TO 20+80.7 LT.			
#4	922	5'-0	3,079.5
#4	1	20'-0	13.4
#4	15	21'-0	210.4
#4	64	21'-8	926.3
#4	144	40'-0	3,847.7
MK 401a	105	20'-0	1,402.8
TOTAL #4			9,480.1
DOWELS 1" Ø x 1'-6			24 EA.
STA. 11+50.0 RT. TO 15+42.8 RT.			
#4	788	5'-0	2,631.9
#4	1	13'-5	9.0
#4	15	14'-5	144.5
#4	48	21'-8	694.7
#4	128	40'-0	3,420.2
MK 401a	84	20'-0	1,122.2
TOTAL #4			8,022.5
DOWELS 1" Ø x 1'-6			18 EA.
STA. 16+10.7 RT. TO 20+84.2 RT.			
#4	948	5'-0	3,166.3
#4	64	21'-8	926.3
#4	1	33'-2	22.2
#4	15	34'-2	342.4
#4	144	40'-0	3,847.7
MK 401a	105	20'-0	1,402.8
TOTAL #4			9,707.7
DOWELS 1" Ø x 1'-6			24 EA.
TOTAL EPOXY COATED REINFORCING			35,014.9 LBS.

CONCRETE

CLASS "C" IN OFF-STRUCTURE	
COPING/APRON	651 CYS.

BILL OF MATERIALS OFF-STRUCTURE BARRIER RAIL

SIZE OR MK	NO. OF PCS.	LENGTH	WEIGHT
STA. 11+82.0 LT. TO 15+52.5 LT.			
#4	6	20'-6	82.2
#4	24	21'-8	347.4
#4	6	30'-0	120.2
#4	36	40'-0	961.9
TOTAL #4			1,511.7
#5	1	3'-6	3.7
#5	370	4'-4	1,672.3
MK 502a	371	4'-4	1,676.8
TOTAL #5			3352.8
Total Epoxy coated			4864.5
STA. 16+20.3 LT. TO 20+80.7 LT.			
#4	6	21'-0	84.2
#4	24	21'-8	347.4
#4	54	40'-0	1,442.9
TOTAL #4			1,874.5
#5	1	3'-6	3.7
#5	460	4'-4	2,079.0
MK 502a	461	4'-4	2,083.6
TOTAL #5			4166.3
Total Epoxy coated			6040.8
STA. 11+60.0 RT. TO 15+42.8 RT.			
#4	6	14'-5	57.8
#4	18	21'-8	260.5
#4	6	30'-0	120.2
#4	42	40'-0	1,122.2
TOTAL #4			1,560.7
#5	1	3'-6	3.7
#5	383	4'-4	1,731.0
MK 502a	384	4'-4	1,735.5
TOTAL #5			3470.2
Total Epoxy Coated			5030.9
STA. 16+10.7 RT. TO 20+84.2 RT.			
#4	24	21'-8	347.4
#4	6	34'-2	136.9
#4	54	40'-0	1,442.9
TOTAL #4			1,927.2
#5	1	3'-6	3.7
#5	473	4'-4	2,137.8
MK 502a	474	4'-4	2,142.3
TOTAL #5			4283.8
Total Epoxy coated			6211.0
TOTAL EPOXY COATED REINFORCING			22147.2 LBS.

CONCRETE

CLASS "C" IN OFF-STRUCTURE	
BARRIER RAIL	165 CYS.
SURFACE SEAL	10,781 SFT.

REINFORCED CONCRETE BARRIER RAIL

DETAILS

2-1-90
James S. Rice

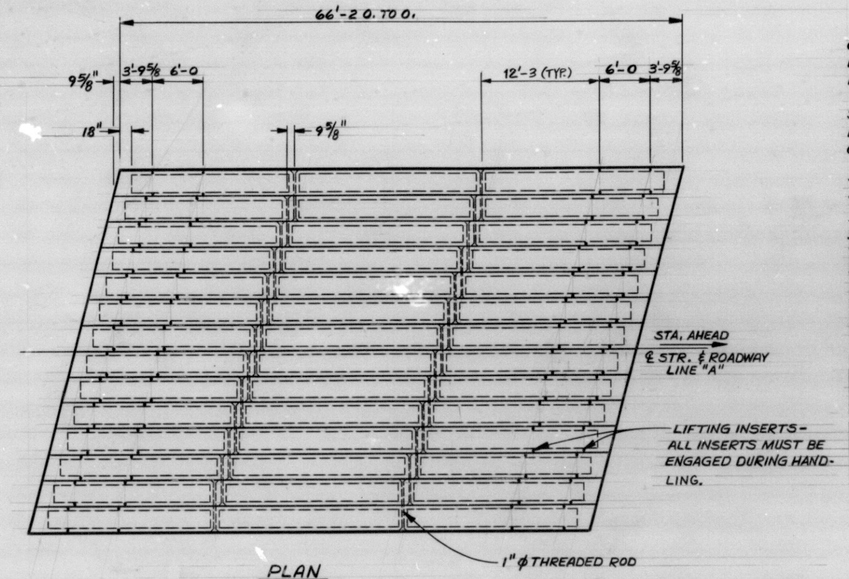
JAMES S. RICE REGISTERED NO. 10389 STATE OF INDIANA PROFESSIONAL ENGINEER

B-18986

1976

Rev. 1/7/91 Barrier Rail (Total epoxy coated reinforcing)

TP107



PLAN

SCALE: 1/8" = 1'-0

PRESTRESSED CONCRETE BEAM DATA

CAMBER AS ERECTED TO BE 0.92"
DEAD LOAD DEFLECTION DUE TO SLAB TO BE 0.51"
RESIDUAL CAMBER TO BE 0.41"

SEE IDOH BRIDGE STANDARDS SHEET PB 9c FOR ADDITIONAL BEAM DETAILS. BEAMS TO BE CB-27 PRESTRESSED CONCRETE BOX BEAMS (COMPOSITE).

THE COST OF ELASTOMERIC BEARING PADS, 1" DIAMETER THREADED RODS, WASHERS, NUTS, LIFTING INSERTS, SEALING OF BEAMS, STYROFOAM JOINT FILLER, GROUT FOR SHEAR KEYS AND CAVITIES, AND THE PRESTRESSED BOX BEAMS TO BE INCLUDED IN THE LUMP SUM BID FOR "CONCRETE STRUCTURAL MEMBERS". THE TOP OF ALL BEAMS AND THE OUTSIDE FACE OF EXTERIOR BEAMS TO BE SEALED. BEAMS TO BE CONSTRUCTED A MINIMUM OF 15 DAYS BEFORE SLAB IS POURED

CAST PRESTRESSED CONCRETE BOX BEAMS 7/8" LONGER THAN DETAILED BELOW TO ACCOUNT FOR BEAM SHORTENING (O. TO O. CAST BEAM = 66'-2 7/8", O. TO O. ERECTED BEAM = 66'-2)

THE BEAM MANUFACTURER HAS THE OPTION TO REDESIGN THE BEAMS DETAILED IN THIS PROJECT. (SEE SPECIAL PROVISIONS.)

GENERAL MATERIALS NOTES

PRESTRESSING STRANDS TO BE SEVEN-WIRE, 1/2" ϕ, f'_s = 270,000 PSI STRESS-RELIEVED STRAND WHICH CONFORMS TO THE REQUIREMENTS OF "STANDARD SPECIFICATIONS FOR UNCOATED SEVEN-WIRE STRESS-RELIEVED STRAND FOR PRESTRESSED CONCRETE" (ASTM DESIGNATION A 416) AND WILL BE PULLED TO 28,900 LBS. EACH. (STRAND As = .153 in²)

REINFORCING STEEL (NON-PRESTRESSED) TO BE GRADE 40 (ASTM DESIGNATION A 615) AS INDICATED.

PRESTRESSED CONCRETE
MINIMUM 28-DAY CYLINDER COMPRESSIVE STRENGTH TO BE 5,000 PSI
MINIMUM CYLINDER COMPRESSIVE STRENGTH AT PRESTRESSING TO BE 4,000 PSI

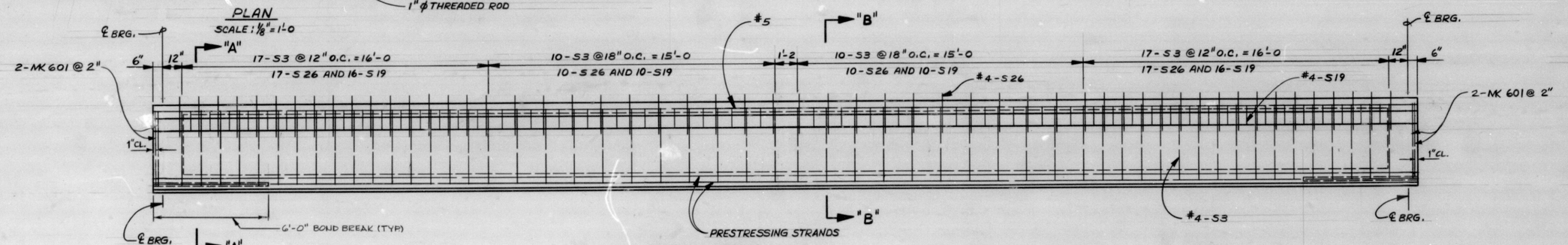
REINFORCED CONCRETE
MINIMUM 28-DAY CYLINDER COMPRESSIVE STRENGTH TO BE 3,000 PSI

DESIGN DATA

LIVE LOADS: HS 20-44 LOADING WITH IMPACT AND DISTRIBUTION OF LOADS IN ACCORDANCE WITH CURRENT AASHTO SPECIFICATIONS

DEAD LOADS: ACTUAL WEIGHT WHICH INCLUDES PROVISION FOR FUTURE WEARING SURFACE (35 PSF)

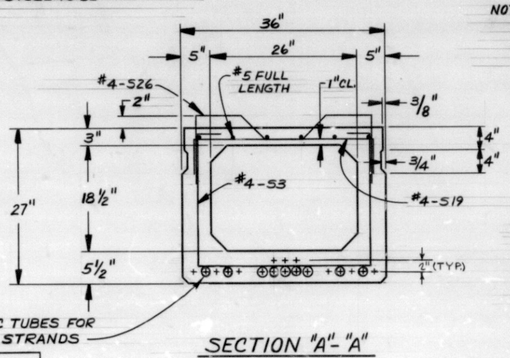
UNIT STRESSES: ALLOWABLE STRESSES TO BE IN ACCORDANCE WITH CURRENT AASHTO SPECIFICATIONS



SINGLE SPAN

SCALE: HORIZ. - 3/8" = 1'-0 VERT. - 3/4" = 1'-0

NOTE: ALL NON-PRESTRESSED REINFORCING STEEL TO BE GRADE 60

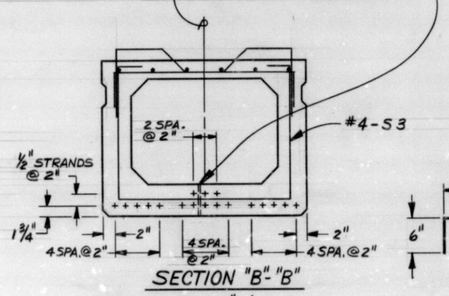


SECTION "A"-"A"

SCALE: 1" = 1'-0

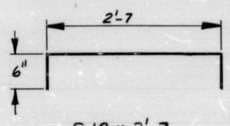
NOTE: LOCATE STRANDS SYMMETRICALLY ABOUT VERTICAL ℄

1/2" ϕ DRAIN PLACE IN CENTER (BETWEEN ENDS) OF VOIDS. TYPE OF INSTALLATION TO BE SHOWN ON SHOP DRAWINGS

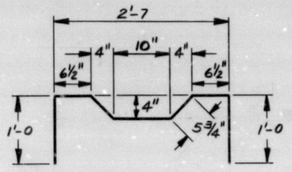


SECTION "B"-"B"

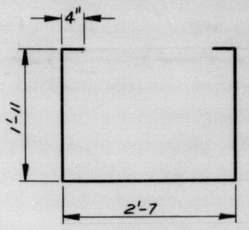
SCALE: 1"-1'-0



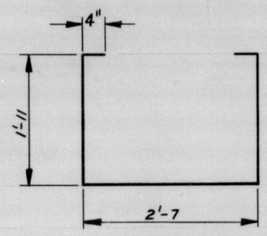
S19 x 3'-7



S26 x 4'-11



MK 601 x 7'-1



S3 x 7'-1

BEAM DETAILS AND ERECTION PLAN

INDIANA DEPARTMENT OF HIGHWAYS

SCALE: — AS NOTED

DATE: 2-1-90

SHEET: 26 OF 80

PROJECT: ~~MAM-W940 (2)~~ STATION: — 15-81.5834"A"

BRIDGE CONTRACT NO. B-18986

BRIDGE FILE: - GIBSON 10288

JAMES S. RICE — NO. 10288 — STATE OF INDIANA — PROFESSIONAL ENGINEER

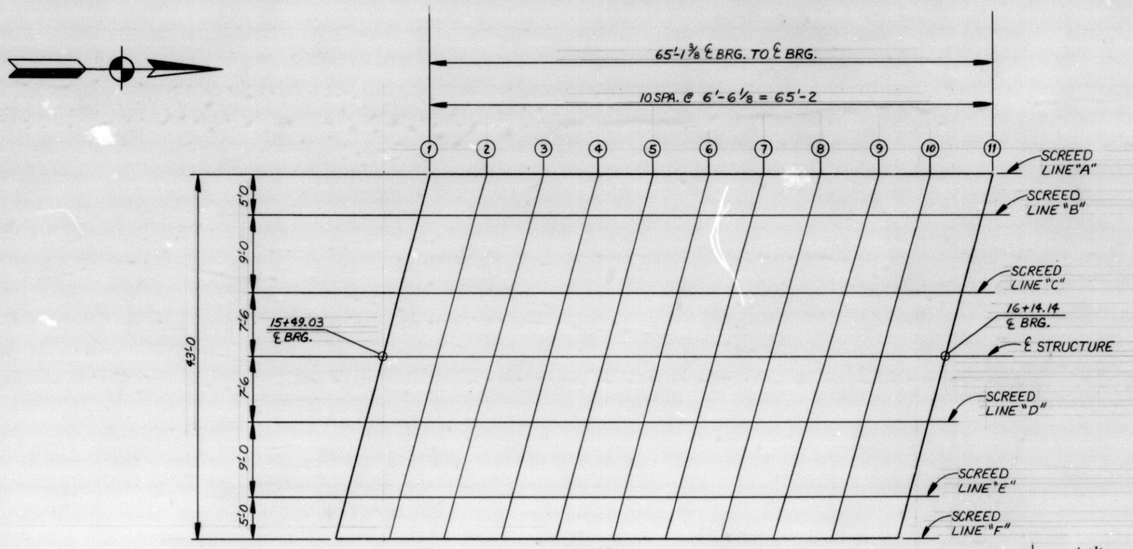
DESIGNED ____ C'K'D ____
DRAWN ____ C'K'D ____
TRACED ____ C'K'D ____

SF-22317

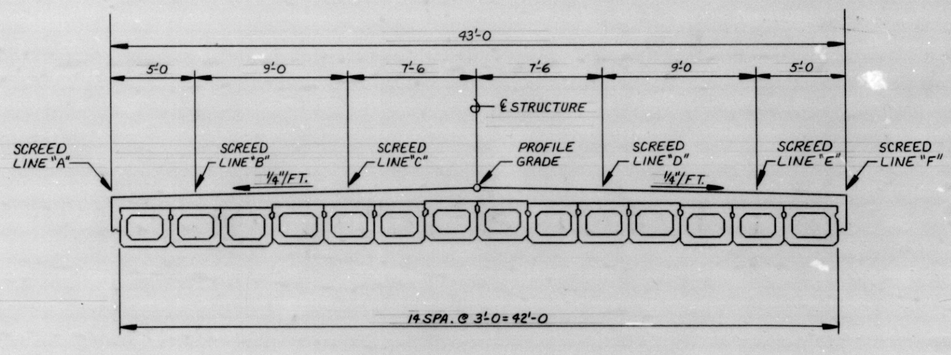
TP101

TABLE OF SCREED ELEVATIONS

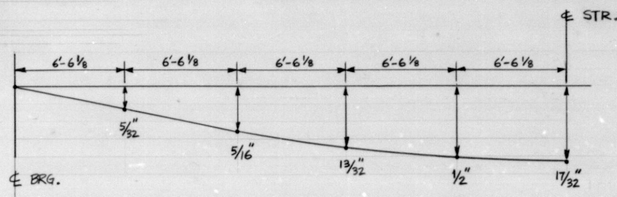
SCREED LINE		POINT →	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
	A	ELEV.-TOP OF COPING FORM	522.2120	522.2470	522.2657	522.2667	522.2492	522.2129	522.1575	522.0833	521.9906	521.8802	521.7535
		ELEV.-℄ TOP OF OUTSIDE BEAM											
		DIST.-TOP OF BEAM TO TOP OF COPING FORM											
	B	ELEV.-TOP OF SCREED	522.3099	522.3480	522.3697	522.3738	522.3594	522.3262	522.2739	522.2028	522.1132	522.0059	521.8823
		ELEV.-℄ TOP OF ADJACENT BEAM											
		DIST.-TOP OF BEAM TO TOP OF SCREED											
	C	ELEV.-TOP OF SCREED	522.4694	522.5280	522.5554	522.5650	522.5562	522.5285	522.4818	522.4162	522.3322	522.2304	522.1124
		ELEV.-℄ TOP OF ADJACENT BEAM											
		DIST.-TOP OF BEAM TO TOP OF SCREED											
	D	ELEV.-TOP OF SCREED	522.4581	522.5[illegible]0	522.5477	522.5666	522.5670	522.5486	522.5112	522.4548	522.3801	522.2876	522.1788
		ELEV.-℄ TOP OF ADJACENT BEAM											
		DIST.-TOP OF BEAM TO TOP OF SCREED											
	E	ELEV.-TOP OF SCREED	522.2521	522.3106	522.3528	522.3773	522.3833	522.3704	522.3386	522.2878	522.2186	522.1317	522.0284
		ELEV.-℄ TOP OF ADJACENT BEAM											
		DIST.-TOP OF BEAM TO TOP OF SCREED											
	F	ELEV.-TOP OF COPING FORM	522.1368	522.1984	522.2436	522.2712	522.2803	522.2705	522.2417	522.1941	522.1279	522.0441	521.9440
		ELEV.-℄ TOP OF OUTSIDE BEAM											
		DIST.-TOP OF BEAM TO TOP OF COPING FORM											



PLAN OF SCREEDS
SCALE: 1/8" = 1'-0



SECTION ⊥ ℄ STRUCTURE
SCALE: 1/4" = 1'-0



D.L. DEFLECTION DIAGRAM
NO SCALE

BEAM DETAILS AND ERECTION PLAN

INDIANA DEPARTMENT OF HIGHWAYS

SCALE:- AS NOTED

DATE:- 2-1-90

James S Rice

SHEET-26A OF 80

PROJECT:- ~~MAMG-W940 (2)~~ STATION:- 15-81.5834 "A"

BRIDGE CONTRACT NO. B-18986

BRIDGE FILE:- GIBSON 10288

JAMES S. RICE REGISTERED NO. 19389 STATE OF INDIANA PROFESSIONAL ENGINEER

DESIGNED C'K'D
DRAWN C'K'D
TRACED C'K'D

SF-22317

TP101

reinforced earth ®

ARLINGTON DIVISION - 1700 N. MOORE ST. ARLINGTON , VA. 22209 (703) 527 - 3434

REINFORCED EARTH WALLS ARE IN ACCORDANCE WITH INDOT "PLAN DEVELOPMENT GUIDELINES FOR EARTH RETAINING SYSTEMS" DATED MARCH, 1989.

GENERAL NOTES

DESIGN CRITERIA

■ 1. DESIGN IS BASED ON THE ASSUMPTION THAT THE MATERIAL WITHIN THE REINFORCED EARTH VOLUME , METHODS OF CONSTRUCTION AND QUALITY OF PREFABRICATED MATERIAL SHALL CONFORM TO THE CONTRACTING AGENCY'S TECHNICAL SPECIFICATIONS FOR REINFORCED EARTH WALLS .

■ 2. ASSUMED SOILS CHARACTERISTICS :

SELECT GRANULAR BACKFILL
ϕ = 34 degrees , c = 0 p.s.f. , γ = 125 p.c.f.

RANDOM BACKFILL
ϕ = 30 degrees , c = 0 p.s.f. , γ = 125 p.c.f.

FOUNDATION MATERIAL
ϕ = 30 degrees , c = 0 p.s.f.

IF THE ACTUAL CHARACTERISTICS OF THE SOIL MATERIALS DIFFER FROM THOSE ABOVE, THE REINFORCED EARTH COMPANY SHOULD BE NOTIFIED PRIOR TO CONSTRUCTION TO EVALUATE THE NEED FOR REDESIGN OF THE WALL.

■ 3. THE MAXIMUM APPLIED BEARING PRESSURE AT THE FOUNDATION LEVEL IS AS SHOWN ON THE WALL ELEVATIONS FOR EACH DESIGN CASE.

■ 4. ANY UNSUITABLE FOUNDATION MATERIAL BELOW THE REINFORCED EARTH VOLUME , AS DETERMINED BY THE ENGINEER , SHALL BE EXCAVATED AND REPLACED WITH SUITABLE MATERIAL OR OTHERWISE STABILIZED AS DIRECTED BY THE ENGINEER.

■ 5. REINFORCING STRIPS FOR REINFORCED EARTH WALLS SHALL BE 50MM WIDE AND 4MM THICK AND SHALL CONFORM TO THE PHYSICAL AND MECHANICAL PROPERTIES OF ASTM A-572 , GRADE 65 .

WALL CONSTRUCTION

■ 1. STATIONS SHOWN ARE ALONG CENTERLINE OF ROADWAY .

☐ 2. REINFORCED EARTH WALLS , IN CURVES , WILL FORM A SERIES OF SHORT CHORDS OF 4.92' EACH TO MATCH DESIRED WALL ALIGNMENT .

■ 3. FOR LOCATION AND ALIGNMENT OF REINFORCED EARTH WALLS , SEE CONTRACT DRAWINGS .

■ 4. MANHOLES AND DROP INLETS SHALL BE LOCATED AS SHOWN ON WALL ELEVATIONS .

■ 5. PILES WITHIN THE REINFORCED EARTH VOLUME SHALL BE DRIVEN PRIOR TO THE CONSTRUCTION OF THE REINFORCED EARTH WALL .

■ 6. BACKFILL MATERIAL SHALL BE COMPACTED , IN ACCORDANCE WITH THE SPECIFICATIONS FOR REINFORCED EARTH WALLS , TO A LEVEL OF 2" (±) ABOVE THE TIE STRIPS EMBEDDED IN THE PANELS . INSTALLATION OF REINFORCING STRIPS SHALL BE PERMITTED ONLY AFTER PLACEMENT AND COMPACTION OF THE BACKFILL MATERIAL HAS REACHED THE REQUIRED LEVEL .

■ 7. COMPACTION AND OPERATION EQUIPMENT SHALL BE KEPT A MINIMUM DISTANCE OF 3'-0" FROM BACK FACE OF REINFORCED EARTH PANEL . COMPACTION WITHIN 3'-0" OF THE REINFORCED EARTH PANELS SHALL BE ACHIEVED WITH AT LEAST THREE (3) PASSES OF A LIGHTWEIGHT MECHANICAL TAMPER , ROLLER OR VIBRATORY SYSTEM .

■ 8. FOR STRUCTURES IN EXCESS OF 20' IN HEIGHT , THE FINISHED GRADE IN FRONT OF THE WALL SHALL BE PLACED AND COMPACTED BEFORE WALL CONSTRUCTION EXCEEDS A HEIGHT OF 20' . FINISHED GRADE BACKFILL SHALL BE COMPACTED TO 95 % OF ASTM D-698 , METHODS 'C' OR 'D' , UNLESS OTHERWISE DIRECTED BY ENGINEER .

☐ 9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LOCATION OF GUARDRAIL POSTS BEHIND THE REINFORCED EARTH PANELS , PRIOR TO PLACEMENT OF THE TOP LAYER OF REINFORCING STRIPS . INDIVIDUAL STRIPS MAY BE SKEWED , IF AUTHORIZED BY THE REINFORCED EARTH COMPANY , PRIOR TO PLACEMENT . ANY DAMAGE DONE TO THE REINFORCING STRIPS DUE TO THE INSTALLATION OF THE GUARDRAIL SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE .

■ 10. IF STRUCTURES WITHIN THE REINFORCED EARTH VOLUME INTERFERE WITH THE NORMAL PLACEMENT OF REINFORCING STRIPS , THE CONTRACTOR SHALL NOTIFY THE REINFORCED EARTH COMPANY TO DETERMINE THE EFFECT ON THE DESIGN OF THE WALL BY SKEWING THESE STRIPS .

■ 11. ALL DETAILING AND CHECKING OF REINFORCING STEEL FOR ANY C.I.P. CONCRETE WORK IS THE RESPONSIBILITY OF THE CONTRACTOR .

■ 12. FOR CIP CONC. CRASH WALL DETAILS SEE SHT. NO. 34

BILL OF MATERIALS

CONCRETE LEVELLING PAD (3'-6 × 1'-0)	119 LFT
CONCRETE LEVELLING PAD (1'-0 × 0'-6)	1,686 LFT
4" PVC FOUNDATION DRAIN	1,830 LFT
AGGREGATE ENCASEMENT FOR FDN. DRAIN, SIZE NO. 8	110 TON
CONCRETE FACE PANELS	29,930 SFT
WALL ERECTION	29,930 SFT
"B" BORROW FOR STRUCTURE BACKFILL	20,275 C/S

SPECIAL NOTES

■ 1. NO FUTURE EXCAVATION SHOULD BE PERMITTED IN THE MECHANICALLY STABILIZED EMBANKMENT WITHOUT AUTHORIZATION.

■ NOTE APPLIES TO THIS PROJECT

☐ NOTE DOES NOT APPLY TO THIS PROJECT

DESIGNED _____ CK'D _____
DRAWN _____ CK'D _____
TRACED _____ CK'D _____

THE DESIGN CONTAINED ON THESE DRAWINGS IS BASED ON INFORMATION PROVIDED BY THE OWNER. ON THE BASIS OF THIS INFORMATION, THE REINFORCED EARTH COMPANY HAS DESIGNED, AND IS RESPONSIBLE FOR THE INTERNAL STABILITY OF THE STRUCTURE ONLY. EXTERNAL STABILITY, INCLUDING FOUNDATION AND SLOPE STABILITY, IS THE RESPONSIBILITY OF THE OWNER.

reinforced earth **The Reinforced Earth Company**
Rosslyn Center, 1700 North Moore Street, Arlington, Virginia 22209
(703) 527-3434

DESIGNED BY	WAW	DATE
PROJ. ENGR.		
CHECKED BY	AJP	6/8/89

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INDIANA DEPARTMENT OF HIGHWAYS
U.S. RTE. 41 OVER SOUTHERN RAILROAD
GIBSON CO, INDIANA

SCALE - AS NOTED DATE - 2-1-90

James S. Rice

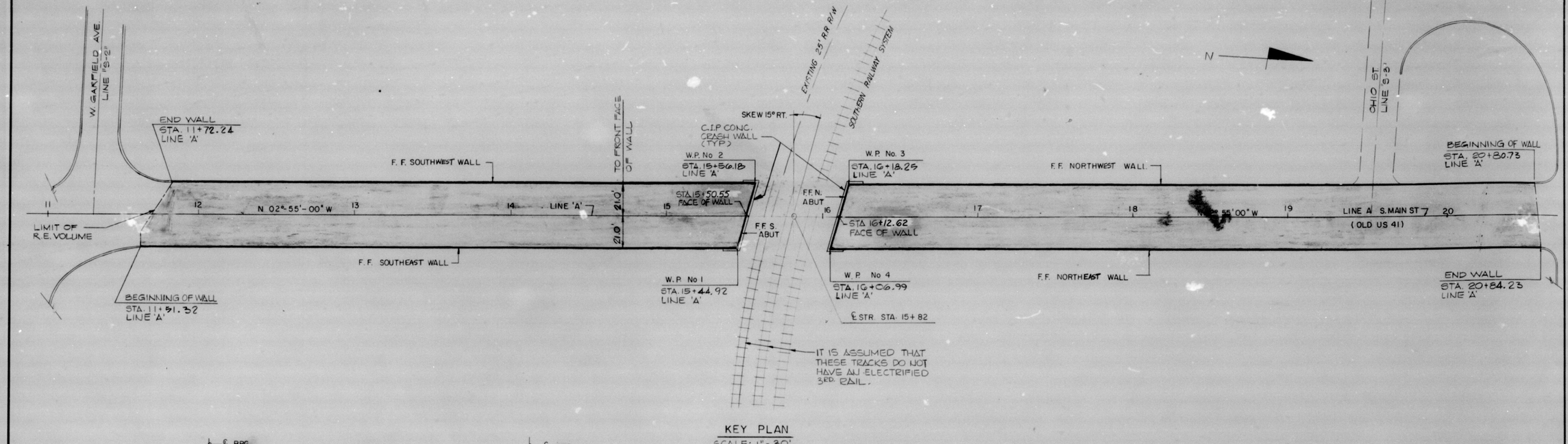
SHEET - 26-B OF 80

PROJECT - HAMG-W940 (2)
CONTRACT NO. B-18986
BRIDGE FILE - GIBSON 10288

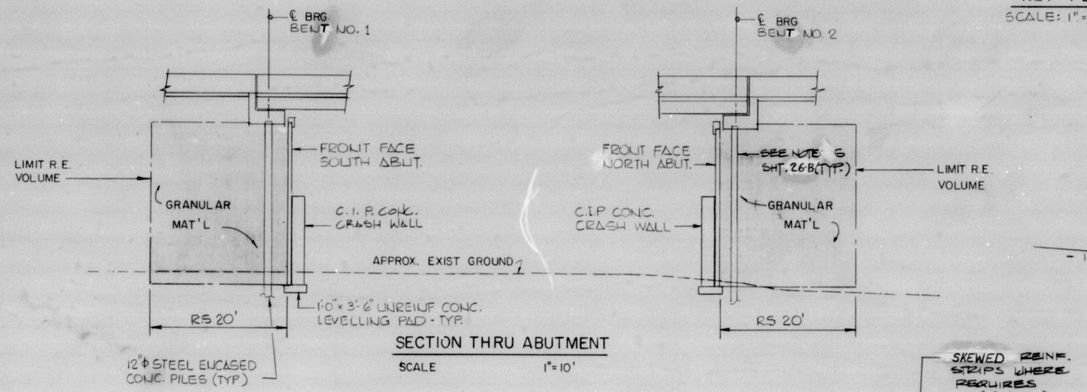
JAMES S. RICE REGISTERED NO. 19389 STATE OF INDIANA PROFESSIONAL ENGINEER

R.E. 1767 9/6/89

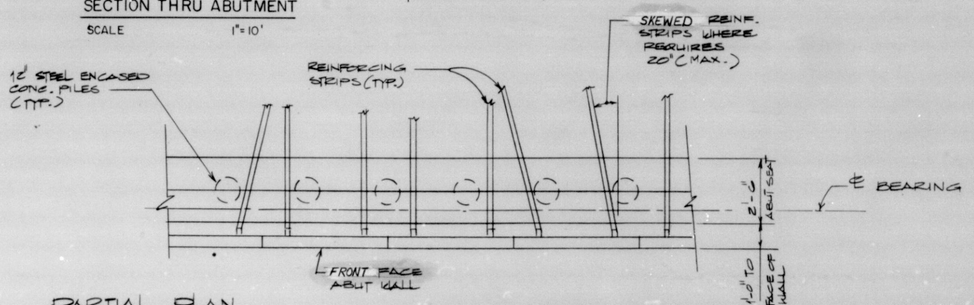
TP101



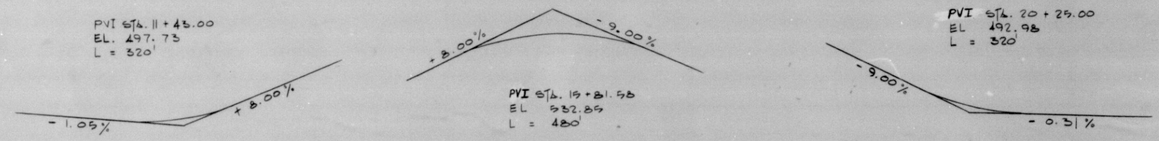
KEY PLAN
SCALE: 1" = 30'



SECTION THRU ABUTMENT
SCALE 1"=10'



PARTIAL PLAN
REINFORCING STRIP LAYOUT AROUND PILE CAP
N.T.S



VERTICAL CURVE DATA
N.T.S.

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DESIGNED ____ CK'D ____
DRAWN ____ CK'D ____
TRACED ____ CK'D ____

reinforced earth
The Reinforced Earth Company
Rosslyn Center, 1700 North Moore Street, Arlington, Virginia 22209
(703) 527-3434

DESIGNED BY: WAW	DATE
PROJ. ENGR:	
CHECKED BY: AJP	6/18/89

INDIANA DEPARTMENT OF HIGHWAYS

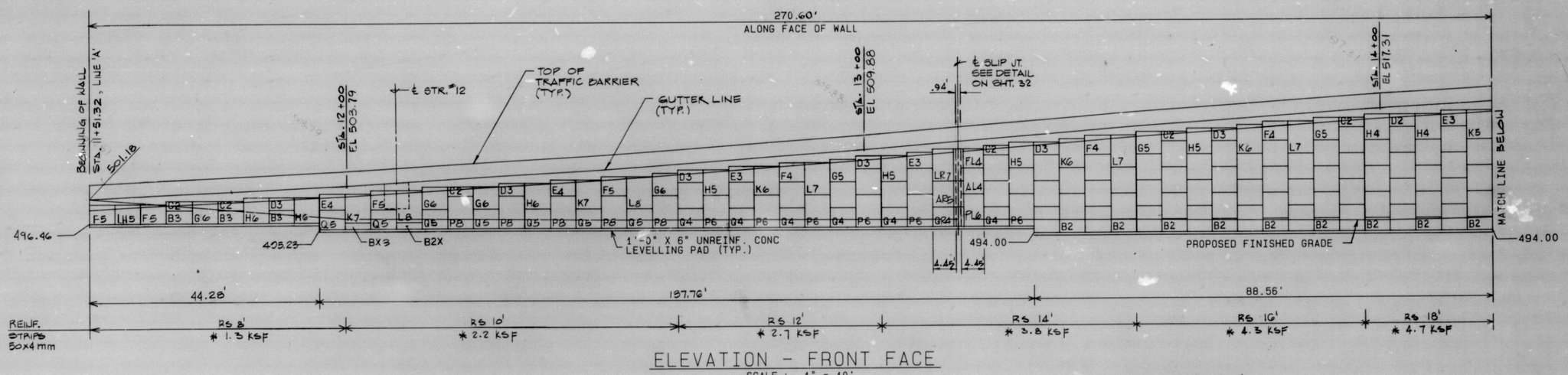
U.S. RTE. 41 OVER SOUTHERN RAILROAD
GIBSON CO., INDIANA

SCALE:- AS NOTED
DATE:- 2-1-90
SHEET:- 27 OF 80
PROJECT:- MAM-W940 (2)
CONTRACT NO. B-18986
BRIDGE FILE:- GIBSON 10288

JAMES S. RICE REGISTERED NO. 19389 STATE OF INDIANA PROFESSIONAL ENGINEER

R.E. 1767 9/6/89

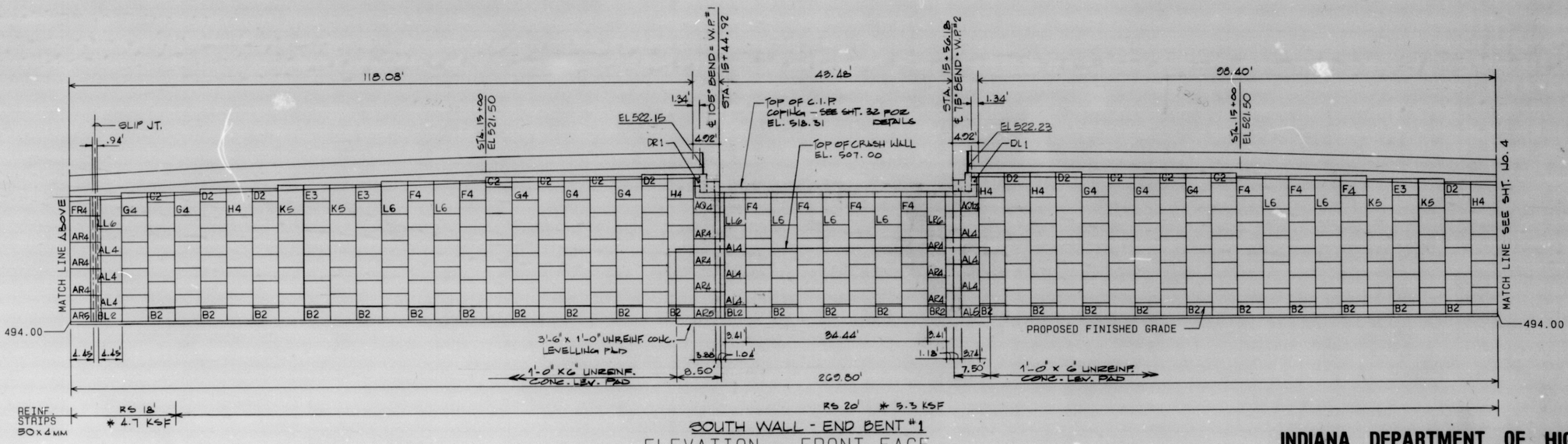
TP101



ELEVATION - FRONT FACE

SCALE : 1" = 10'

* MAXIMUM APPLIED BEARING PRESSURE AT TOE WALL



SOUTH WALL - END BENT #1

ELEVATION - FRONT FACE

SCALE : 1" = 10'

NOTE: FOR C.I.P. CONCRETE CRASH WALL DETAILS, SEE SHT. NO. 34

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DESIGNED BY:	W&W
PROJ. ENGR:	
CHECKED BY:	AJP
DATE	11-9-89

DESIGNED ____ CK'D ____
DRAWN ____ CK'D ____
TRACED ____ CK'D ____

INDIANA DEPARTMENT OF HIGHWAYS

U.S. RTE. 41 OVER SOUTHERN RAILROAD
GIBSON CO., INDIANA

SCALE:- AS NOTED

DATE:- 2-1-90

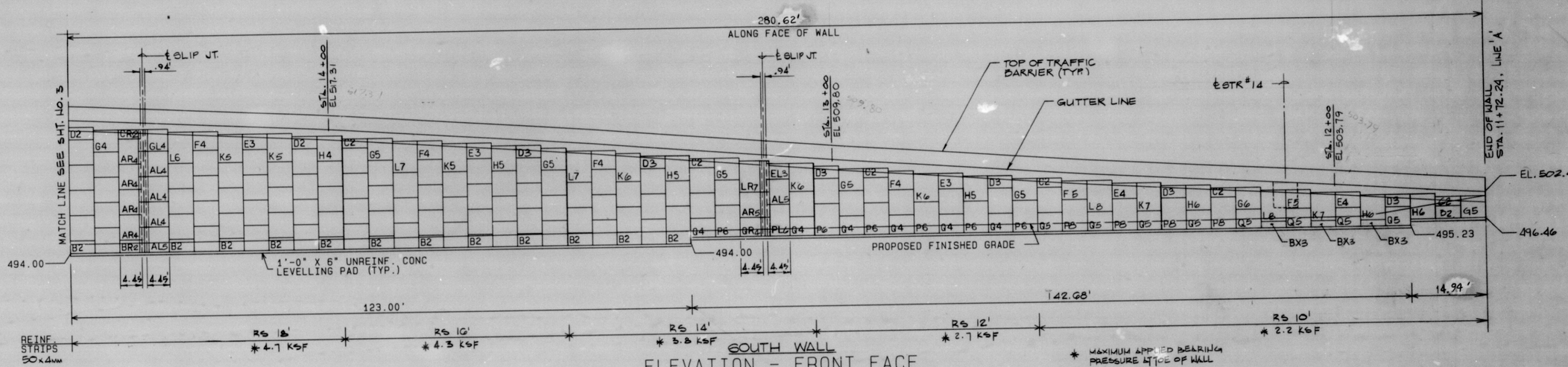
SHEET:- 28 OF 80

PROJECT:- MAM-W940 (2)
CONTRACT NO. B-18986
BRIDGE FILE:- GIBSON 10288

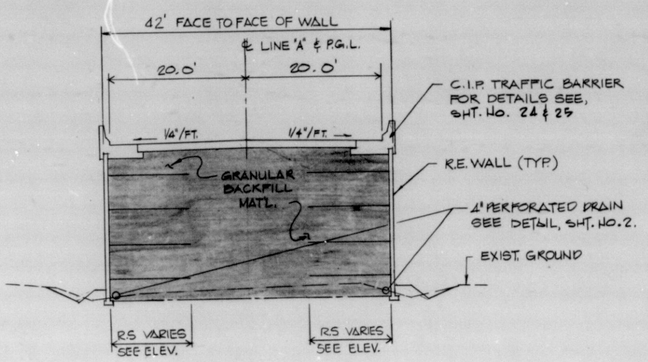
JAMES S. RICE REGISTERED NO. 19389 STATE OF INDIANA PROFESSIONAL ENGINEER

RE 1767 11/9/89

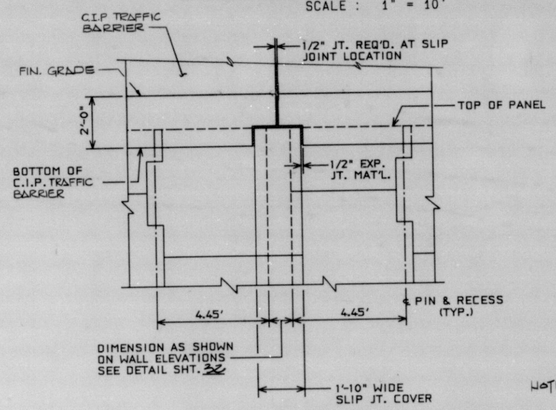
TP118



SOUTH WALL
ELEVATION - FRONT FACE
SCALE : 1" = 10'



TYPICAL SECTION
SCALE: 1" = 10'-0"



NOTE: C.I.P. CONCRETE CRASH WALL DETAILS SEE SHT. 34

PARTIAL ELEVATION
TYPICAL DETAIL - TOP OF SLIP JOINT COVER
SCALE: 1/2" = 1'0"

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Rosslyn Center, 1700 North Moore Street, Arlington, Virginia 22209
(703) 527-3434

DESIGNED BY:	WAW	DATE
PROJ. ENGR:		11-9-89
CHECKED BY:	AJP	

DESIGNED ____ CK'D ____
DRAWN ____ CK'D ____
TRACED ____ CK'D ____

INDIANA DEPARTMENT OF HIGHWAYS
U.S. RTE. 41 OVER SOUTHERN RAILROAD
GIBSON CO., INDIANA

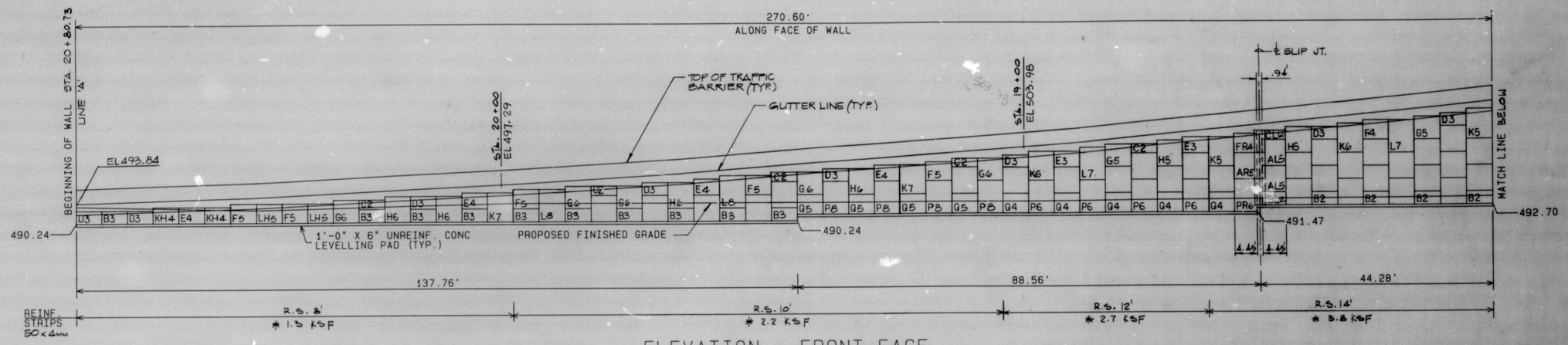
SCALE:- AS NOTED
DATE:- 2-1-90

SHEET:- 29 OF 80
PROJECT:- MAML-W940 (2)
CONTRACT NO. B-18986
BRIDGE FILE:- GIBSON 10288

JAMES S. RICE REGISTERED NO. 19389 STATE OF INDIANA PROFESSIONAL ENGINEER

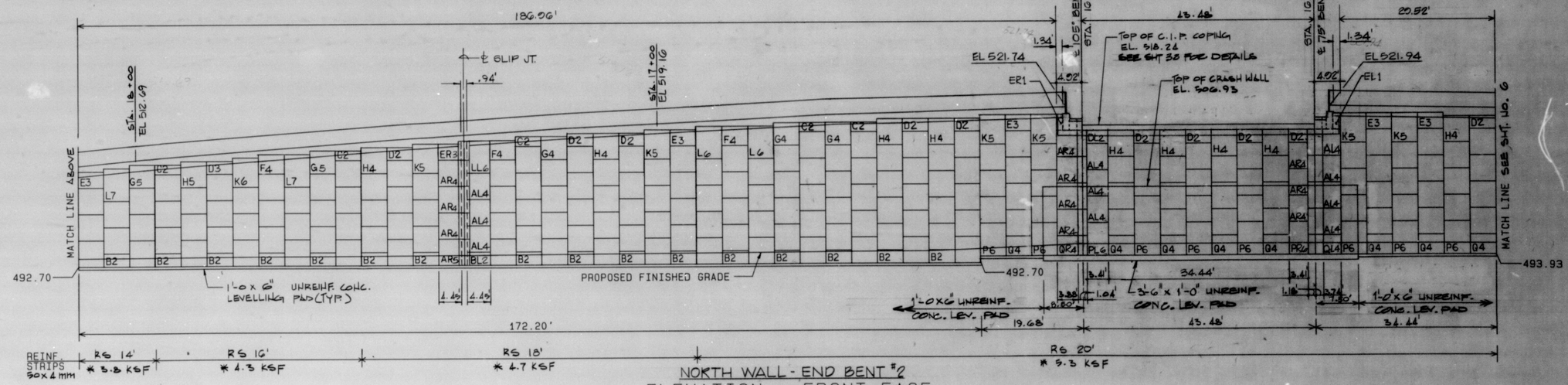
RE 1707 11/9/89

TP118



ELEVATION - FRONT FACE

SCALE : 1" = 10'



NORTH WALL - END BENT #2

ELEVATION - FRONT FACE

SCALE : 1" = 10'

* MAXIMUM APPLIED BEARING PRESSURE AT TOE OF WALL

NOTE:
FOR C.I.P. CONCRETE CRASH WALL DETAILS, SEE SHT. NO. 34

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DESIGNED ____ C'K'D ____
DR. WN ____ C'K'D ____
TRACED ____ C'K'D ____

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Rosslyn Center, 1700 North Moore Street, Arlington, Virginia 22209
(703) 527-3434

DESIGNED BY: WLW	DATE
PROJ. ENGR:	
CHECKED BY: AJP	11-9-89

INDIANA DEPARTMENT OF HIGHWAYS

U.S. RTE. 41 OVER SOUTHERN RAILROAD
GIBSON CO., INDIANA

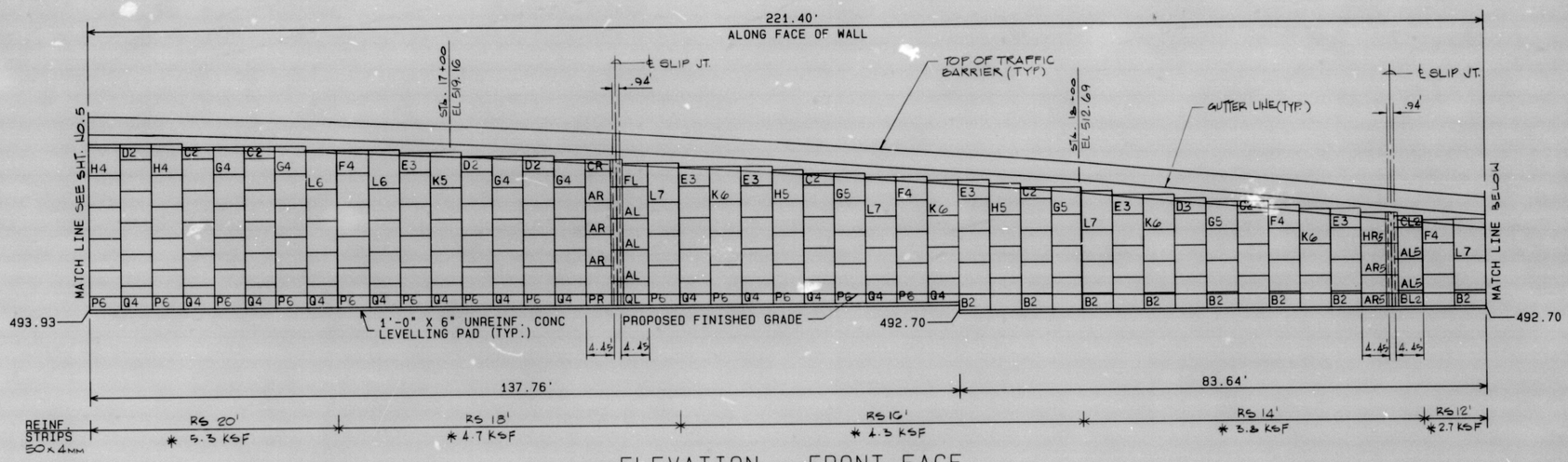
SCALE:- AS NOTED
DATE:- 2-1-90
James S. Rice

SHEET:- 30 OF 80
PROJECT:- MAM-W940 (2)
CONTRACT NO. B-18986
BRIDGE FILE:- GIBSON 10288

JAMES S. RICE REGISTERED NO. 19389 STATE OF INDIANA PROFESSIONAL ENGINEER

RE 1767 11/9/89

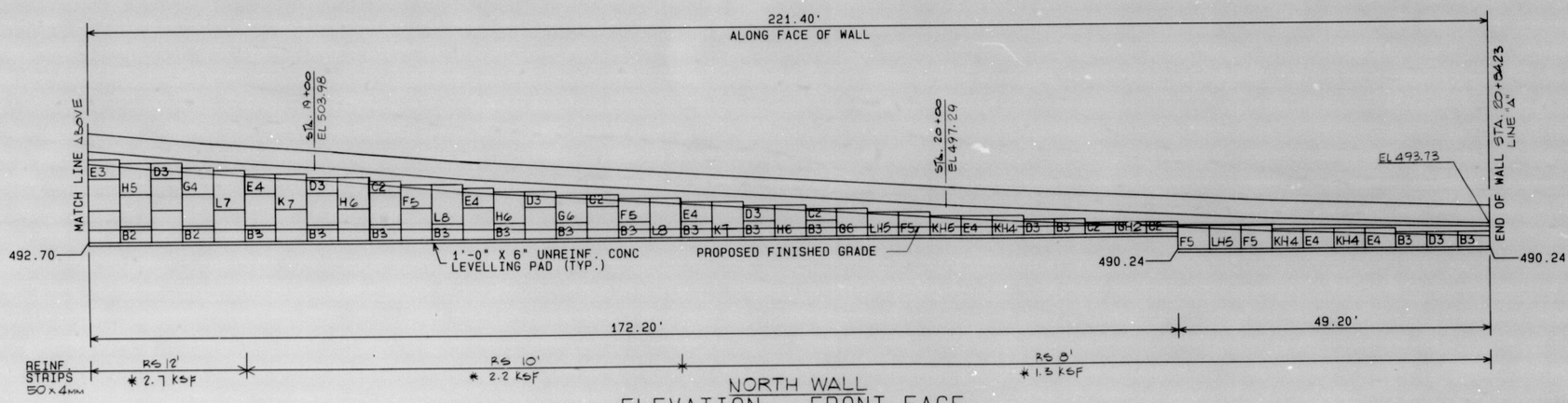
TP118



ELEVATION - FRONT FACE

SCALE : 1" = 10'

* MAXIMUM APPLIED BEARING PRESSURE AT TOE OF WALL



NORTH WALL

ELEVATION - FRONT FACE

SCALE : 1" = 10'

NOTE:
FOR C.I.P. CONCRETE CRASH WALL DETAILS, SEE SHT. No. 34

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DRAWN ____ C K D ____
TRACED ____ C K D ____

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DESIGNED BY W&W
PROJ. ENGR.
CHECKED BY AJP
DATE 6-8-89

INDIANA DEPARTMENT OF HIGHWAYS

U.S. RTE. 41 OVER SOUTHERN RAILROAD
GIBSON CO., INDIANA

SCALE:- AS NOTED

DATE:- 2-1-90

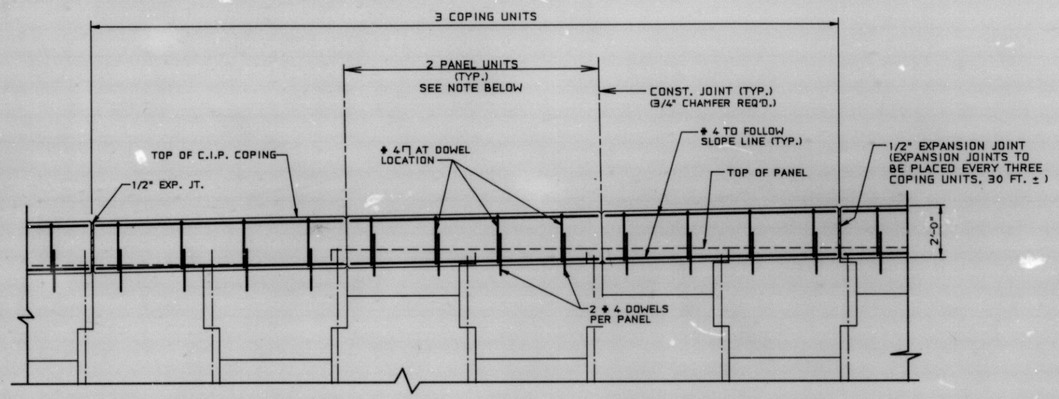
SHEET:- 31 OF 80

PROJECT:- MAMC-W940 (2)
CONTRACT NO. B-18986
BRIDGE FILE:- GIBSON 10288

JAMES S. RICE REGISTERED NO. 19389 STATE OF INDIANA PROFESSIONAL ENGINEER

RE 1767 9/6/89

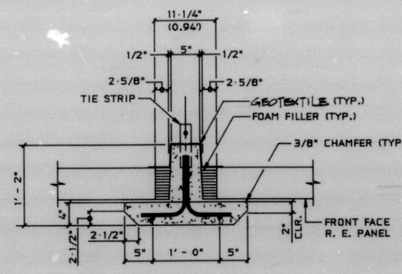
TP118



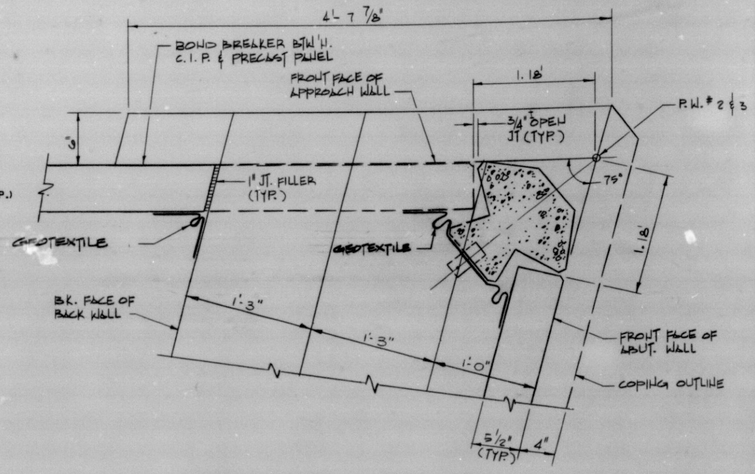
NOTE:
CONST. JT. IN C.I.P. COPING SHALL BE AT 2 PANEL INTERVALS . COPING JOINTS MUST COINCIDE WITH PANEL JOINTS . ON FRONT FACE . WHERE BOTTOM OF 4" LIP INTERSECTS WITH JOINT, REINFORCING STEEL SHALL BE STOPPED 2" SHORT OF EITHER SIDE OF THE CONSTRUCTION JOINTS AND EXPANSION JOINTS.

C.I.P. COPING PARTIAL ELEVATION
SCALE : 3/8" = 1'-0"

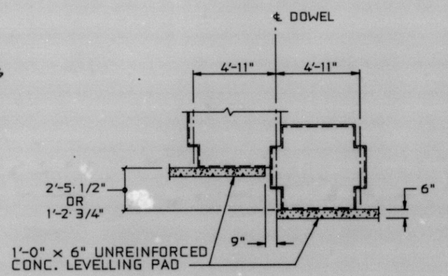
* FOR DETAILS OF TRAFFIC BARRIER SEE SHT. NO. 24 & 25



SLIP JOINT DETAIL
SCALE : 1" = 1'-0"

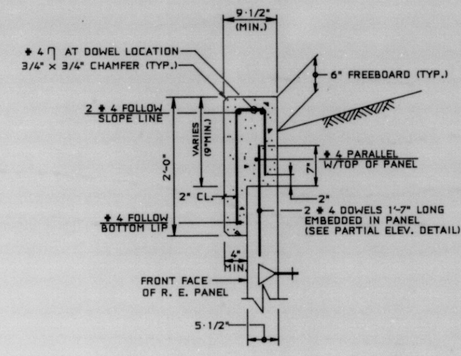


PRECAST CORNER ELEMENT - 75°
SCALE : 1/2" = 1'-0"



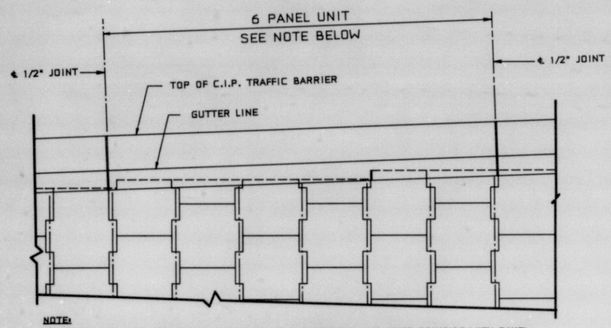
TYPICAL LEVELLING PAD STEP DETAIL
SCALE : 1/4" = 1'-0"

NOTE:
LEVELLING PAD MUST BE POURED TO THE DESIGN ELEVATIONS AS SHOWN ON THE WALL ELEVATION VIEWS. THE ALLOWABLE ELEVATION TOLERANCES ARE 0.01'(+) AND 0.02'(-). PRECAST PANEL JOINT FILLER MATERIAL IS NOT PERMITTED BETWEEN PRECAST PANEL AND LEVELLING PAD UNLESS AUTHORIZED IN WRITING BY THE REINFORCED EARTH COMPANY .



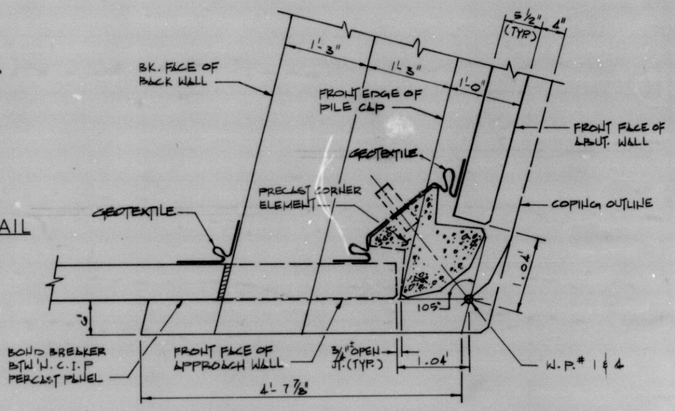
C.I.P. CONC. COPING DETAIL
SCALE : 1" = 1'-0"

NOTE: C.I.P CONCRETE CRASH WALL DETAILS, SEE SHT. NO. 54.



NOTE:
ALL JOINTS SHALL BE LOCATED AS SHOWN ON WALL ELEVATIONS AND MUST COINCIDE WITH PANEL JOINT ON FRONT FACE WHERE BOTTOM OF LIP INTERSECTS WITH PANEL JOINT.

C.I.P. TRAFFIC BARRIER PARTIAL ELEVATION
SCALE: 3/16" = 1'



PRECAST CORNER ELEMENT - 105°
SCALE: 1" = 1'-0"

INDIANA DEPARTMENT OF HIGHWAYS
U.S. RTE. 41 OVER SOUTHERN RAILROAD
GIBSON CO., INDIANA

SCALE:- AS NOTED DATE:- 2-1-90

SHEET:- 32 OF 80

PROJECT:- MAMG-W940 (2)
CONTRACT NO. B-18986
BRIDGE FILE:- GIBSON 10288

DESIGNED BY: WAW	DATE
PROJ. ENGR:	
CHECKED BY: AJP	6-8-89

DESIGNED____ C'K'D____
DRAWN____ C'K'D____
TRACED____ C'K'D____

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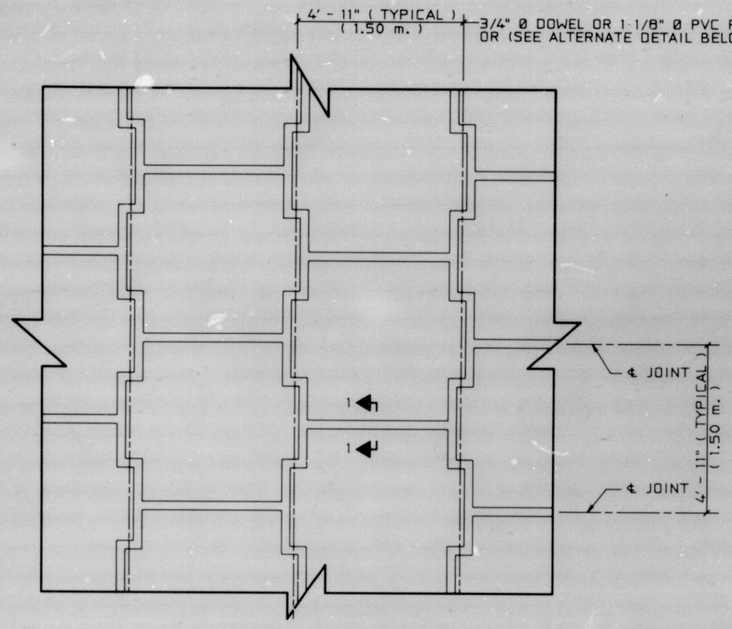
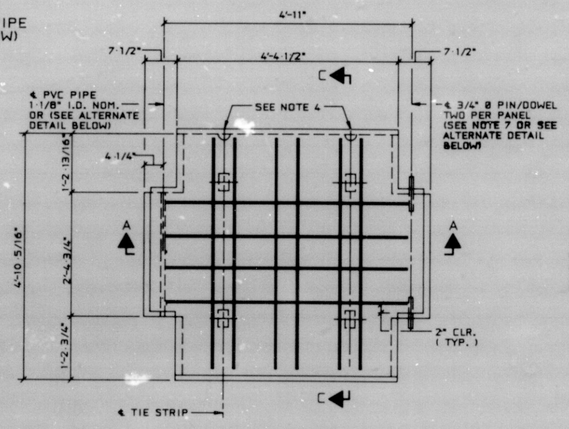
JAMES S. RICE REGISTERED NO. 19389 STATE OF INDIANA PROFESSIONAL ENGINEER

R.E. 1767 9/6/89

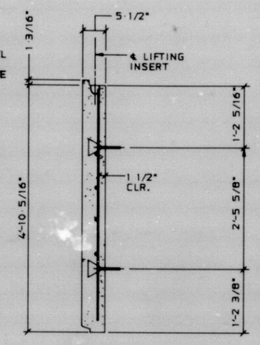
TP101



TYPICAL PANEL LAYOUT
PARTIAL ELEVATION - FRONT FACE
SCALE: 1/2" = 1' - 0"



PANEL TYPE "A"
WITH R6 REINFORCEMENT
FRONT VIEW
SCALE: 3/4" = 1' - 0"

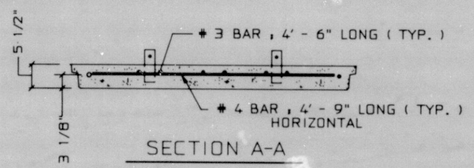


SECTION C-C
SCALE: 3/4" = 1' - 0"

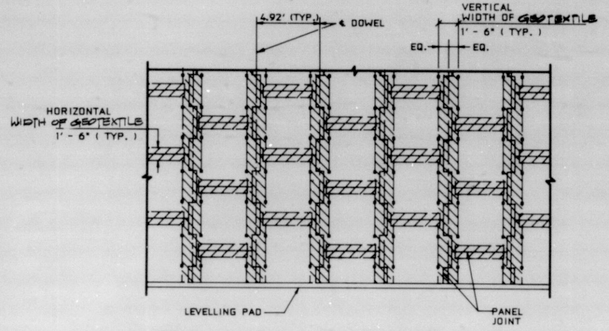
PANEL THICKNESS	REINFORCEMENT DESIGNATION	PANEL REINFORCEMENT A_s(IN²)	MAXIMUM ALLOWABLE HORIZONTAL STRESS AT FACING (KSF)
5½"	R4	~~0.44 VERTICAL~~ ~~0.58 HORIZONTAL~~	1.01
	R6	0.66 VERTICAL 0.78 HORIZONTAL	1.33
	R7	1.18 VERTICAL 1.77 HORIZONTAL	2.58

NOTES :

1. REINFORCING STEEL TO BE A615 GRADE 60 .
2. 3/8" x 3/8" CHAMFER SHALL BE PROVIDED ON ALL EXPOSED EDGES (FRONT FACE ONLY) .
3. ALL PANEL TYPES AND OTHER RELATED ELEMENTS WILL BE DETAILED ON SHOP DRAWINGS .
4. ALL PANELS SHALL HAVE TWO LIFTING INSERTS OF ONE TON CAPACITY EACH .
5. PANEL DESIGN THICKNESS IS 5 1/2" . THICKNESS OF CONCRETE MUST INCREASE TO ACCOMODATE ANY ARCHITECTURAL SURFACE FINISH THAT MAY BE SPECIFIED.
6. ACTUAL PANEL REINFORCEMENT FOR ALL PANEL TYPES ON THIS PROJECT IS DESIGNATED ABOVE . R6 ILLUSTRATED FOR INFORMATION ONLY .
7. EACH 3/4" Ø DOWEL SHALL HAVE A MIN. LENGTH OF 10" . DOWELS MAY BE GALVANIZED STEEL OR PVC ROD . A SINGLE FULL LENGTH DOWEL MAY BE USED AT THE DISCRETION OF THE MANUFACTURER .

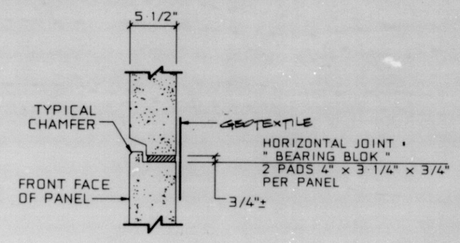


SECTION A-A
SCALE: 3/4" = 1' - 0"

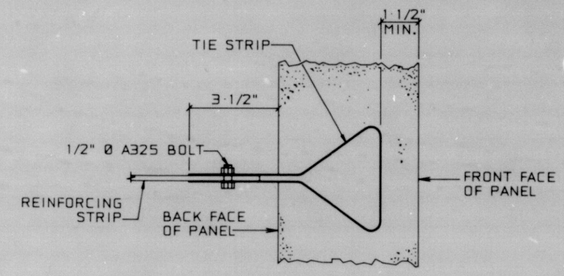


NOTE:
STRIPS OF GEOTEXTILE SHALL BE PLACED ON BACK FACE OF PANEL , OVER PANEL JOINTS . FILTER CLOTH SHALL BE ADHERED TO BACK FACE OF PANELS USING AN ADHESIVE COMPOUND SUPPLIED BY THE REINFORCED EARTH COMPANY .

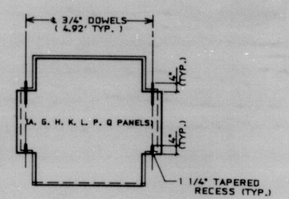
GEOTEXTILE DETAIL
PARTIAL ELEVATION - BACK FACE
SCALE: 3/16" = 1' - 0"



SECTION 1-1



CONNECTION DETAIL
NO SCALE



ALTERNATE DOWEL/RECESS
PLACEMENT DETAIL
SCALE: 3/8" = 1' - 0"

THE DESIGN CONTAINED ON THESE DRAWINGS IS BASED ON INFORMATION PROVIDED BY THE OWNER. ON THE BASIS OF THIS INFORMATION, THE REINFORCED EARTH COMPANY HAS DESIGNED, AND IS RESPONSIBLE FOR THE INTERNAL STABILITY OF THE STRUCTURE ONLY. EXTERNAL STABILITY, INCLUDING FOUNDATION AND SLOPE STABILITY, IS THE RESPONSIBILITY OF THE OWNER.

"REINFORCED EARTH" IS THE REGISTERED TRADEMARK OF THE REINFORCED EARTH COMPANY.

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DESIGNED _____ C'K'D _____
DRAWN _____ C'K'D _____
TRACED _____ C'K'D _____

reinforced earth **The Reinforced Earth Company**
Roslyn Center, 1700 North Moore Street, Arlington, Virginia 22209
(703) 527-3434

DESIGNED BY:	WAW	DATE
PROJ. ENGR.		
CHECKED BY:	AJP	6/8/89

INDIANA DEPARTMENT OF HIGHWAYS

U.S. RTE. 41 OVER SOUTHERN RAILROAD
GIBSON CO., INDIANA

SCALE - AS NOTED DATE:- 2-1-90

James S. Rice

SHEET:- 33 OF 80

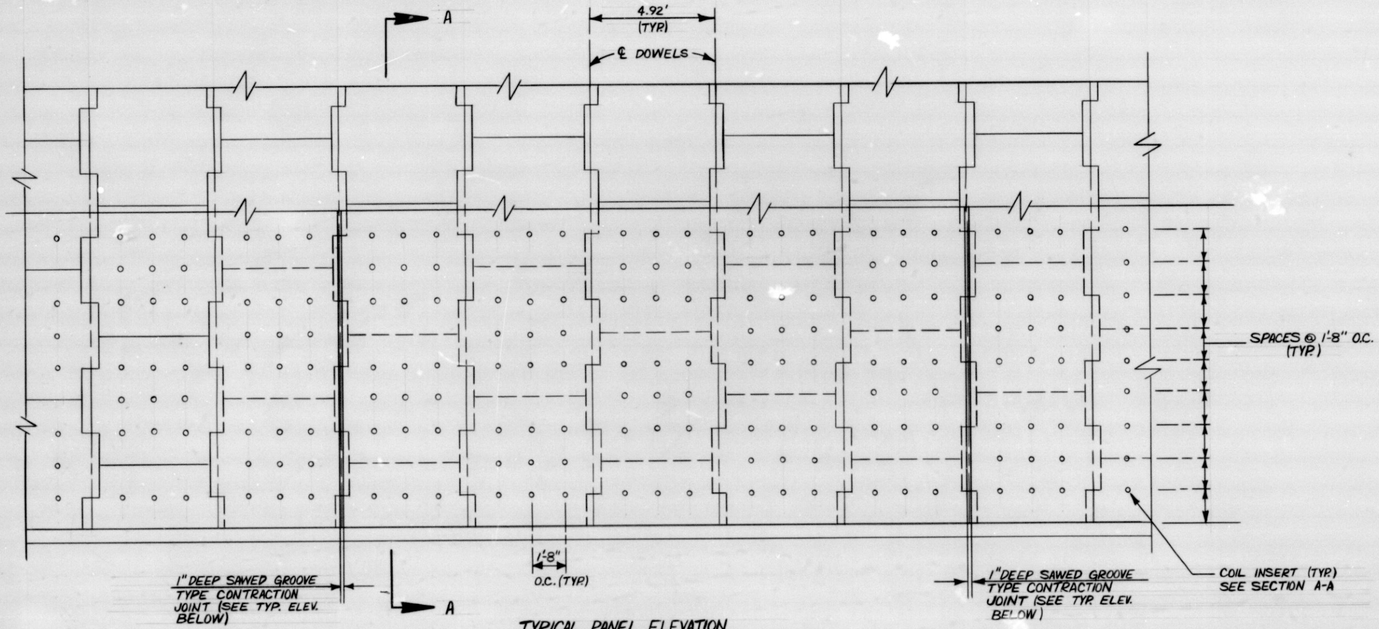
PROJECT:- MAM4-W940(2)
CONTRACT NO. B-18986
BRIDGE FILE:- GIBSON 10288

JAMES S. RICE REGISTERED NO. 19389 STATE OF INDIANA PROFESSIONAL ENGINEER

R.E. 1767 9/6/89

TP101

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	I-65-4(190)260(2)	1987	34	80



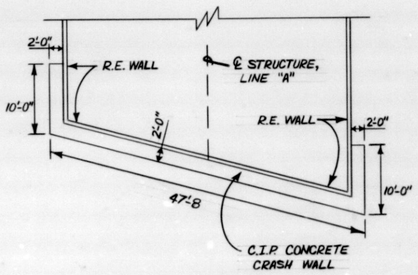
TYPICAL PANEL ELEVATION
BACK FACE
SCALE: 3/8"=1'-0"

NOTES:

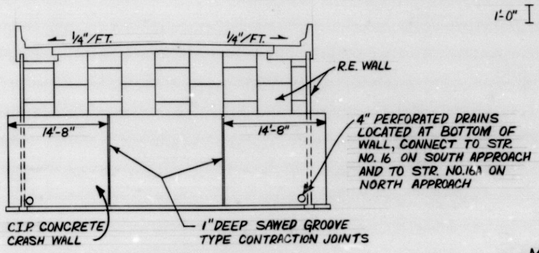
1. UNREINFORCED CONCRETE LEVELING PAD (3'-6"x1'-0") TO BE POURED MONOLITHICALLY PRIOR TO SETTING R.E. FACE PANELS.
2. C.I.P. CONCRETE CRASH WALL TO BE CONSTRUCTED AFTER R.E. WALL COMPLETED.
3. THE COST FOR THE COIL INSERTS AND COIL THREADED LOOP RODS TO BE INCLUDED IN PRICE FOR CONCRETE FACE PANELS.
4. FOR GENERAL NOTES SEE DRAWING C3 OF C7, SHT. NO. 19
5. ALL REINFORCING STEEL IN C.I.P. CONCRETE CRASH WALL TO BE EPOXY-COATED.

BILL OF MATERIALS
C.I.P. CONCRETE CRASH WALLS
(INCLUDES CRASH WALLS AT BOTH BENTS)

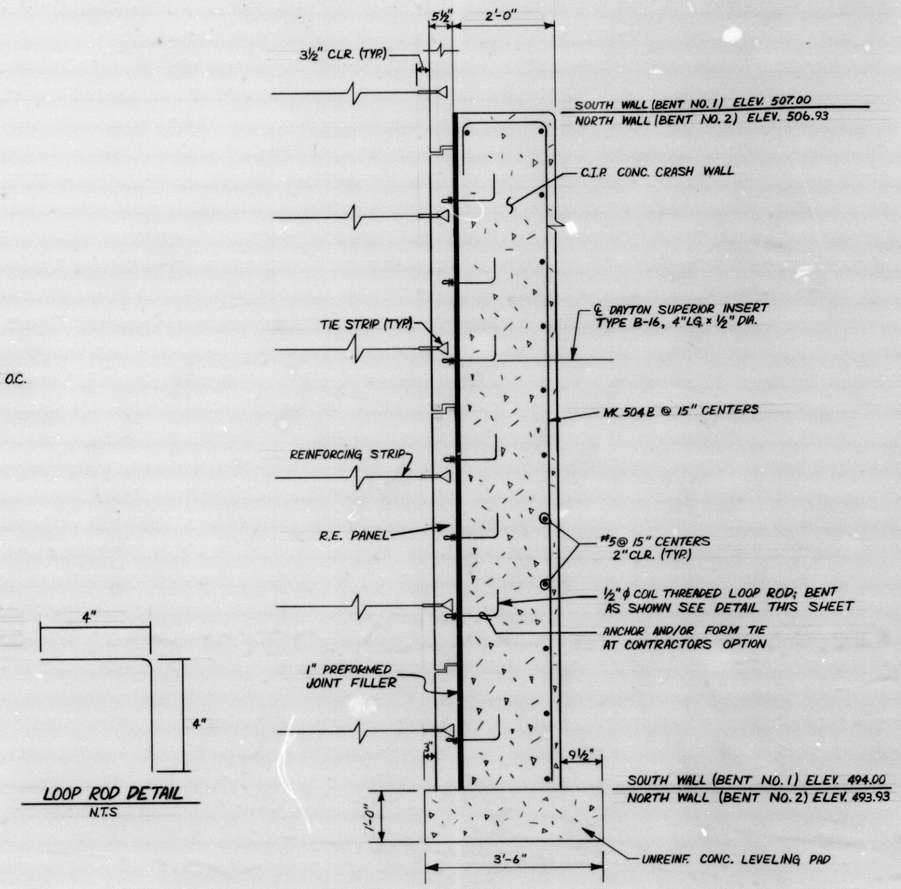
SIZE OR MK.	NO. OF PIECES	LENGTH	WEIGHT
#5	48	24'-7"	1,230.7
#5	48	9'-6"	475.6
MK 504 B	110	15'-0"	1,721.0
		TOTAL #5	34273#
TOTAL EPOXY-COATED REINFORCING			3,4273#
— CONCRETE —			
CLASS "A" IN CRASH WALLS			123.3 CYS.
CONCRETE LEVELING PAD, 3'-6" WIDE			119.0 LFT.



C.I.P. CONCRETE CRASH WALL
TYPICAL PLAN
SCALE: 1"=10'

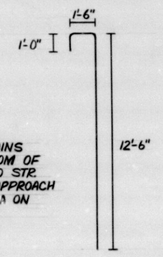


C.I.P. CONCRETE CRASH WALL
TYPICAL ELEVATION
NO SCALE



SECTION A-A
SCALE: 3/4"=1'-0"

LOOP ROD DETAIL
N.T.S



MK 504 B x 15'-0"
SCALE: 1/4"=1'-0"

DETAILS

2-1-90

JAMES S. RICE
REGISTERED
NO. 19289
STATE OF
INDIANA
PROFESSIONAL ENGINEER

B-18986

1976

TP107

BRIDGE FILE

STRUCTURE QUANTITIES

ITEM	CONCRETE CLASS C SUPERSTR CU. YDS.	CONCRETE CLASS A SUBSTR CU. YDS.	CONCRETE CLASS B ABOVE FTG. CU. YDS.	CONCRETE CLASS B IN. FTG. CU. YDS.	CONCRETE CLASS C OFF STRUC. CU. YDS.	CONCRETE RAILING CLASS C CU. YDS.	CONCRETE RAILING CLASS C LIN. FT.	REINF. STEEL TOTAL LBS.	STRUCT. STEEL *** LBS.	EPOXY COATED REINF. STEEL LBS.	ANCHOR PLATES MK-AP EACH	PILES UNTREATED TIMBER NO.	PILES UNTREATED TIMBER LIN. FT.	PILES TREATED TIMBER NO.	PILES TREATED TIMBER LIN. FT.	PILES STEEL ENCASED CONC. NO.	PILES STEEL ENCASED CONC. LIN.FT.	PILES STEEL H BEARING NO.	PILES STEEL H BEARING LIN. FT.	CAST IRON DRAIN PIPE LBS.	CAST IRON, GRATES, BASINS, & FITTINGS LBS.	RAILING TYPE OR LIN. FT.	EXP. JOINT CLASS LIN. FT.	CONC. STR. MEMBERS BOX BEAMS TYPE CB-27 SQ. FT.	CONC. STR. MEMBERS I BEAM TYPE LIN. FT.	BRIDGE DECK SURFACE SQ. YDS	BARRIER DELINEAT. EACH	SURFACE SEAL SQ. FT.	FINISHING AND CURING SQ. YD.	BLASTING AND CLEANING SQ. YD.
SUBSTRUCTURE								2,788.8								14	1,148												327		
BENT NO.1		14.0						2,788.8								14	1,218												327		
BENT NO.2		14.0																													
SUPERSTRUCTURE	69.7									7,634.8															2,779				3,927		
ON-STRUCTURE BARRIER RAIL						13.2				*																		6			
OFF-STRUCTURE BARRIER RAIL						165.0				22,147.2																		88	10,781		
OFF-STRUCTURE COPING/APRON					651.0					35,014.9																					
C.I.P. CONCRETE CRASH WALL (BENT NO.1 & NO.2)		123.3																													
* INCLUDED IN SUPERSTRUCTURE QUANTITY																															
Reinf. Steel for Approach Structures								3,450.2																							
Reinf. Steel for R.C. Bridge Approaches																															
Reinf. Steel for Lip Gutter, Pvmt., Tapers, etc.																															
TOTALS	69.7	151.30			651.0	178.2		9,027.8		68,224.2						28	2,366								2,779			94	15,362**		

** ESTIMATED QUANTITY

BRIDGE FILE

APPROACH STRUCTURES

STRUCT. NO.	LOCATION	APPROACH DESCRIPTION SIZE	APPROACH DESCRIPTION KIND	APPROACH DESCRIPTION LENGTH LIN. FT.	CONCR. CL. A IN STRS. CU. YDS.	REINF. STEEL LBS.	PIPE END SEC. EACH	8" BORROW STR BFILL CU.YDS.	REMARKS
8	8+77 "S-1" LT.	12"	GROUP "D"	32'			2	0.8	
9	5+45 "PR-2"	12"	GROUP "D"	64'			2	5.2	
10	2+59 "PR-1"	12"	GROUP "D"	54'			2	6.8	
11	10+60 "A" LT.	12"	GROUP "D"	50'			2	1.2	
12	12+10 "A" RT.	12"	INLET TYPE S-14 AND GROUP "L" PIPE	6'			1	0.2	
13	11+50 "A" LT.	15"	GROUP "D"	100'			2	15.0	
14	12+10 "A" LT.	12"	INLET TYPE S-14 AND GROUP "L" PIPE	6'			1	0.2	
15	14+50 "A" RT.	18"	INLET TYPE E-7 AND GROUP "L" PIPE	90'				4.0	CONNECT TO STR. NO. 15A
16	15+58 "A" LT.	24"	INLET TYPE F-7 AND GROUP "L" PIPE	68'				4.7	CONNECT TO STR. NO. 16A
17	20+65 "A" RT.	12"	INLET TYPE S-14 AND GROUP "L" PIPE	8'				0.3	CONNECT TO STR. NO. 18
18	20+65 "A" RT.	12"	CATCH BASIN TYPE F-7 AND GROUP "L" PIPE	128'				9.6	CONNECT TO STR. NO. 21
19	20+65 "A" LT.	12"	INLET TYPE S-14 AND GROUP "L" PIPE	12'			1	0.4	
20	21+00 "A" LT.	12"	CATCH BASIN TYPE F-7 AND GROUP "L" PIPE	78'				15.4	CONNECT TO STR. NO. 21
21	21+82 "A" LT.	12"	MANHOLE TYPE B-15 GROUP "L" PIPE	94'				18.5	CONNECT TO STR. NO. 23
22	21+82 "A" LT.	12"	INLET TYPE J-10 AND GROUP "L" PIPE	12'				0.4	CONNECT TO STR. NO. 21
23	22+74 "A" LT.		MANHOLE TYPE B-15					-	CONNECT TO EXISTING 12" SANITARY SEWER LINE
24	9+03 "S-4" LT.	12"	INLET TYPE M-10 AND GROUP "L" PIPE	144'				28.4	CONNECT TO STR. NO. 21
25	9+12 "S-4" RT.	12"	INLET TYPE J-10 AND GROUP "L" PIPE	24'				4.7	CONNECT TO STR. NO. 24
26	12+90 "S-4"	12"	GROUP "D"	140'			2	21.0	
19A	20+95 "A" LT.	12"	INLET TYPE J-10 AND GROUP "L" PIPE	10'				0.3	CONNECT TO STR. NO. 20
15A	15+45 "A" RT.	18"	MANHOLE TYPE B-15 AND GROUP "L" PIPE	32'				2.7	CONNECT TO STR. NO. 16
16A	16+28 "A" LT.	24"	INLET TYPE F-7 AND GROUP "L" PIPE	20'			1	1.4	
			TOTALS				16	141.8	Total of Reinforcing Steel Carried to "Structure Quantities"

APPROACH TABLE

LOCATION LT/RT	LOCATION STATION	DESCRIPTION	WIDTH FT.	RADII FT.	GRADE %	LENGTH FT.	DIST. BEYOND R/W FT.	EXCAVATION(CYS) CUT	EXCAVATION(CYS) FILL	BITUM. SURFACE #/SQ.YD.	BITUM. SURFACE TONS	BITUM. BINDER #/SQ.YD.	BITUM. BINDER TONS	BITUM. BASE #/SQ.YD.	BITUM. BASE TONS	BITUM. BASE 5D #/SY. YD.	BITUM. BASE 5D TONS	CONC. PVMT. DEPTH (in)	CONC. PVMT. SYS.
	FROM 9+83.00	MAIN LINE "A"				1,199.5		3,878	1,370	110	170.8	220	341.4	880	1,673.3	440	836.7		
	TO 21+82.50													330	230.6				
LT.	10+57 "A"	SPCL. CL. II DR.	30	10-10		26		12	0	110	4.3					550	21.5		
	FROM 1+26.99	LINE "PR-1"				187.5		207	178	110	55.7	220	111.3	440	222.6	440	222.6		
	TO 3+14.49																		
LT.	8+77 "S-1"	SPCL. CL. II DR.	18	10-10		16		7	0									6	29.9
RT.	8+77 "S-1"	SPCL. CL. II DR.	24	30-40				4	8										
	FROM 10+20	LINE "S-2"				130		91	83	110	27.4	220	54.9	440	109.7	440	109.7		
	TO 11+50																		
LT.	11+07 "S-2"	SPCL. CL. II DR.	8	10-10		12	3.5	2	0	110	0.9					550	4.7		
	FROM 9+00	LINE "S-4"	24			80		94	20	110	17.5	220	34.9	440	69.9	440	69.9		
	TO 9+80																		
	FROM 10+20	LINE "S-4"	24			276.96		253	35	110	53.8	220	107.5	440	215.0	440	215.0		
	TO 12+96.96																		
RT.	22+04 "A"	SPCL. CL. III DR.	21	10-10		12		2	0									6	29.3
	FROM 11+00	LINE "S-3"	21					11	0	110	19.9								
	TO 12+59																		
	PRINCE ST.	SPCL. CL. III DR.	16	10-20		105		31	0	110	10.5					550	52.3		
		INCIDENTAL								82.5	34.4								
		SHOULDERS	2													1210	157.9		
		TOTALS						4592	1694		395.2		650.0		2521.1		1690.3		59.2

NOTES:
Weight of Spirals includes weight of 1½ extra turns top and bottom.
Spacers and 1½ turns at laps included in cost of Spiral.
*** The weight of structural steel is approximate only, and it shall be the Contractor's responsibility to determine the weight on which he bases his bid.
For Test Bar Samples See Bridge Standard C1.

SUMMARIZED _____ C'K'D _____
TRACED _____ C'K'D _____

WATER AND SANITARY SEWER STRUCTURES

STRUCTURE NO.	LOCATION	C 900 PIPE 10" LFT.	C 900 PIPE 6" LFT.	TEES 10"x8" NO.	TEES 10"x6" NO.	TEES 10"x4" NO.	TEES 8"x6" NO.	VALVES AND BOXES 10" NO.	VALVES AND BOXES 8" NO.	VALVES AND BOXES 6" NO.	VALVES AND BOXES 4" NO.	VALVES AND BOXES 1¼" NO.	FIRE HYDRANT W/6" AUX. VALVE NO.	TYPE "C" MANHOLE NO.	8" SCHEDULE 40 PIPE LFT.	"B" BORROW FOR STR. BACKFILL CU. YDS.
27	10+70 "A" LT.	1,090			2					2						152.9
28	11+00 "A" LT.				1						1					
29	11+47 "A" LT.					1				1						
30	15+90 "A" LT.			1				1								
31	16+17 "A" LT.													1	329	48.5
32	16+40 "A" LT.				1								1			
33	19+45 "A" LT.	(TAP INTO PROPOSED 10" WATER LINE)										1				
34	19+45 "A" LT.													1	185	27.3
35	21+28 "A" RT.	10		1		1		1								1.4
36	21+20 "A" LT.	(EXISTING MANHOLE TO BE TAPPED WITH 8" SEWER)														
37	21+65 "A" RT.	(10" TO 6" REDUCER REQUIRED)														
38	9+50 "S-4" RT.		10				1						1			1.5
	TOTALS	1,100	10	2	4	2	1	1	1	2	1	1	3	2	514	231.6

REVISIONS

DATE	ITEM

Rev. 1/7/91 Total Epoxy coated changed to 68,224.2 lbs.

BRIDGE SUMMARY
INDIANA DEPARTMENT OF HIGHWAYS
GIBSON COUNTY
DATE 2-1-90

JAMES S. RICE REGISTERED NO. 19391 STATE OF INDIANA PROFESSIONAL ENGINEER

SHEET 35 OF 80

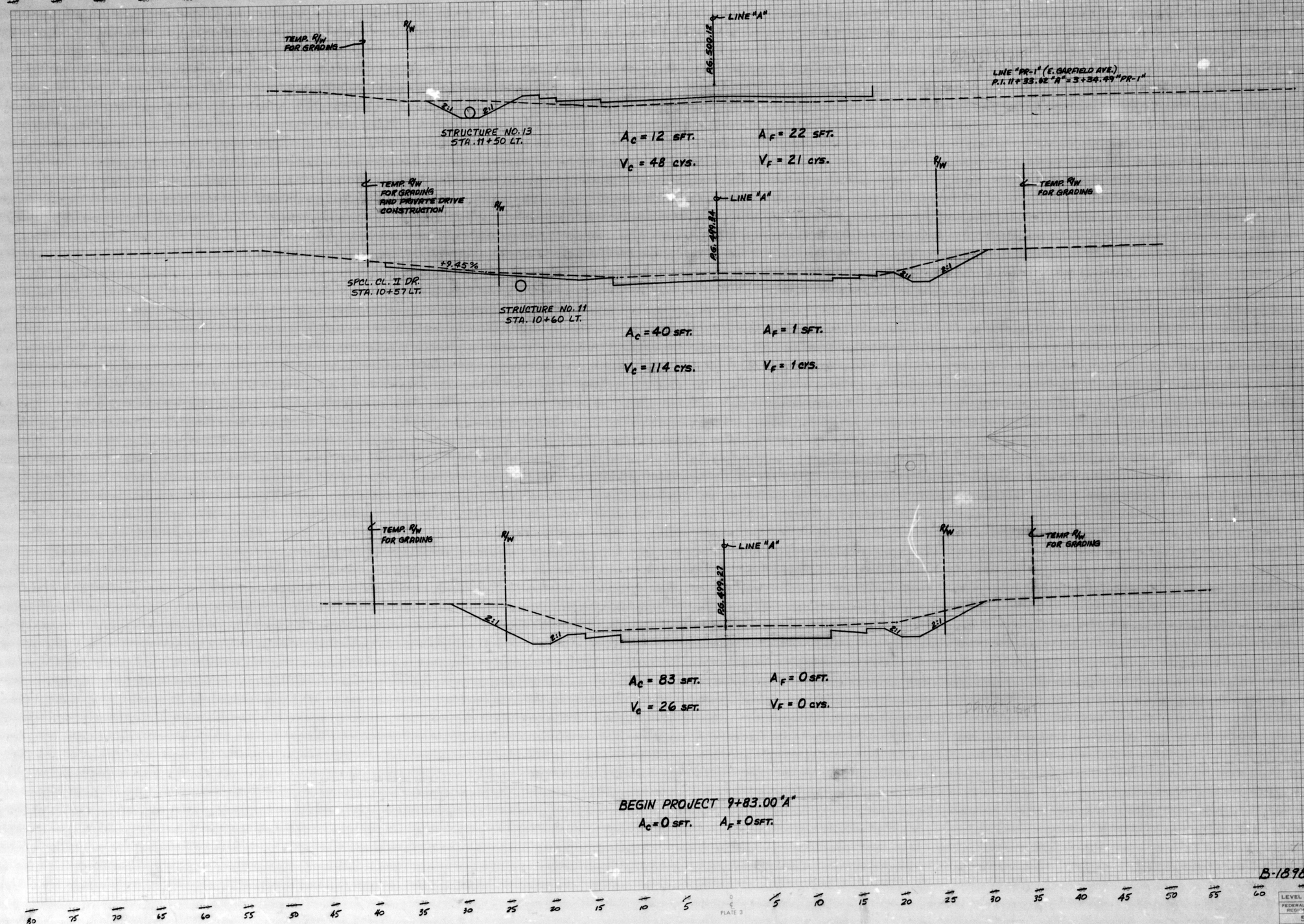
PROJECT: MAMG-W940 (2)
CONTRACT NO: B-18986
BRIDGE FILE: GIBSON 10288

TP103

CROSS SECTIONS

Scale 1 inch = 5 feet

CUT FILL



BEGIN PROJECT 9+83.00 "A"

A_C = 0 SFT. A_F = 0 SFT.

JAMES S. RICE
REGISTERED
NO. 18388
STATE OF
INDIANA
PROFESSIONAL ENGINEER

B-18986

LEVEL BOOK NO.					FILE GIBSON 10288
FEDERAL ROAD SECTION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	HAMS-4940(2)	1987	36	80
LINE "A"					

PLATE 3

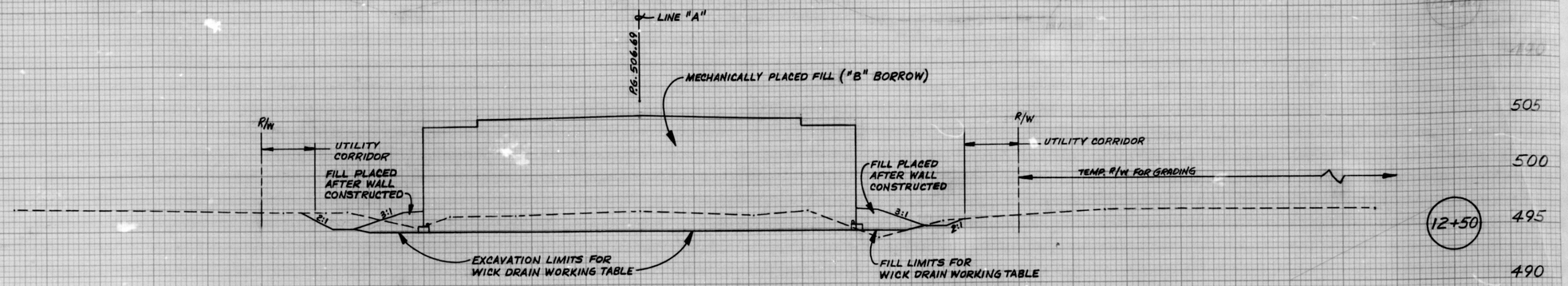
September, 1973

TP122

CROSS SECTIONS

Scale 1 inch = 5 feet

CUT — FILL



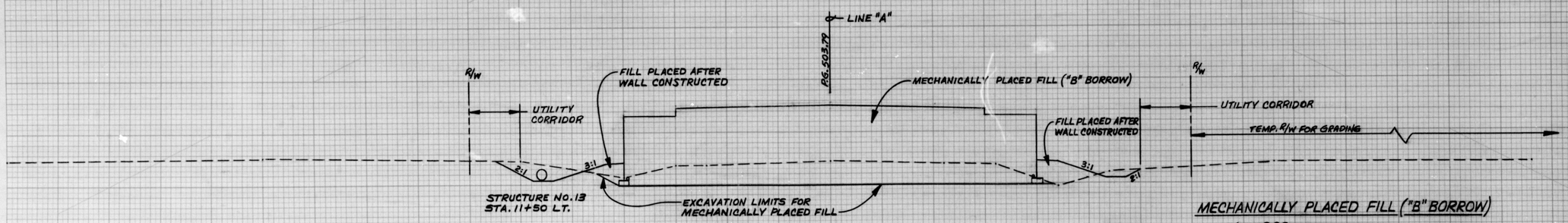
A_c = 70 SFT. A_F = 15 SFT.

V_c = 142 CYS. V_F = 25 CYS.

MECHANICALLY PLACED FILL ("B" BORROW)

A_F = 405 SFT.

V_F = 644 CYS.



A_c = 83 SFT. A_F = 12 SFT.

V_c = 85 CYS. V_F = 150 CYS.

MECHANICALLY PLACED FILL ("B" BORROW)

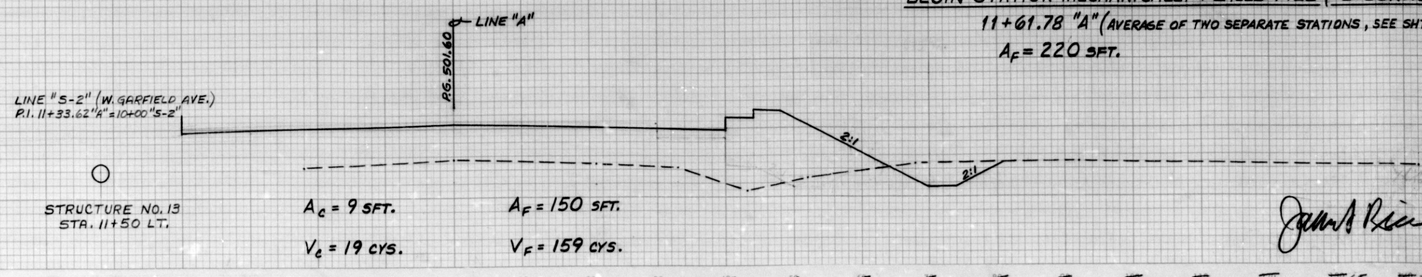
A_F = 290 SFT.

V_F = 361 CYS.

BEGIN STATION MECHANICALLY PLACED FILL ("B" BORROW)

11+61.78 "A" (AVERAGE OF TWO SEPARATE STATIONS, SEE SHT. 27)

A_F = 220 SFT.



A_c = 9 SFT. A_F = 150 SFT.

V_c = 19 CYS. V_F = 159 CYS.

JAMES S. HYDE
REGISTERED
NO. 19309
STATE OF
INDIANA
PROFESSIONAL ENGINEER

PLATE 3

September, 1973

B-18786

LEVEL BOOK NO.					FILE GB504/10238	
FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	HSIG-WYAN-()	1987	37	80

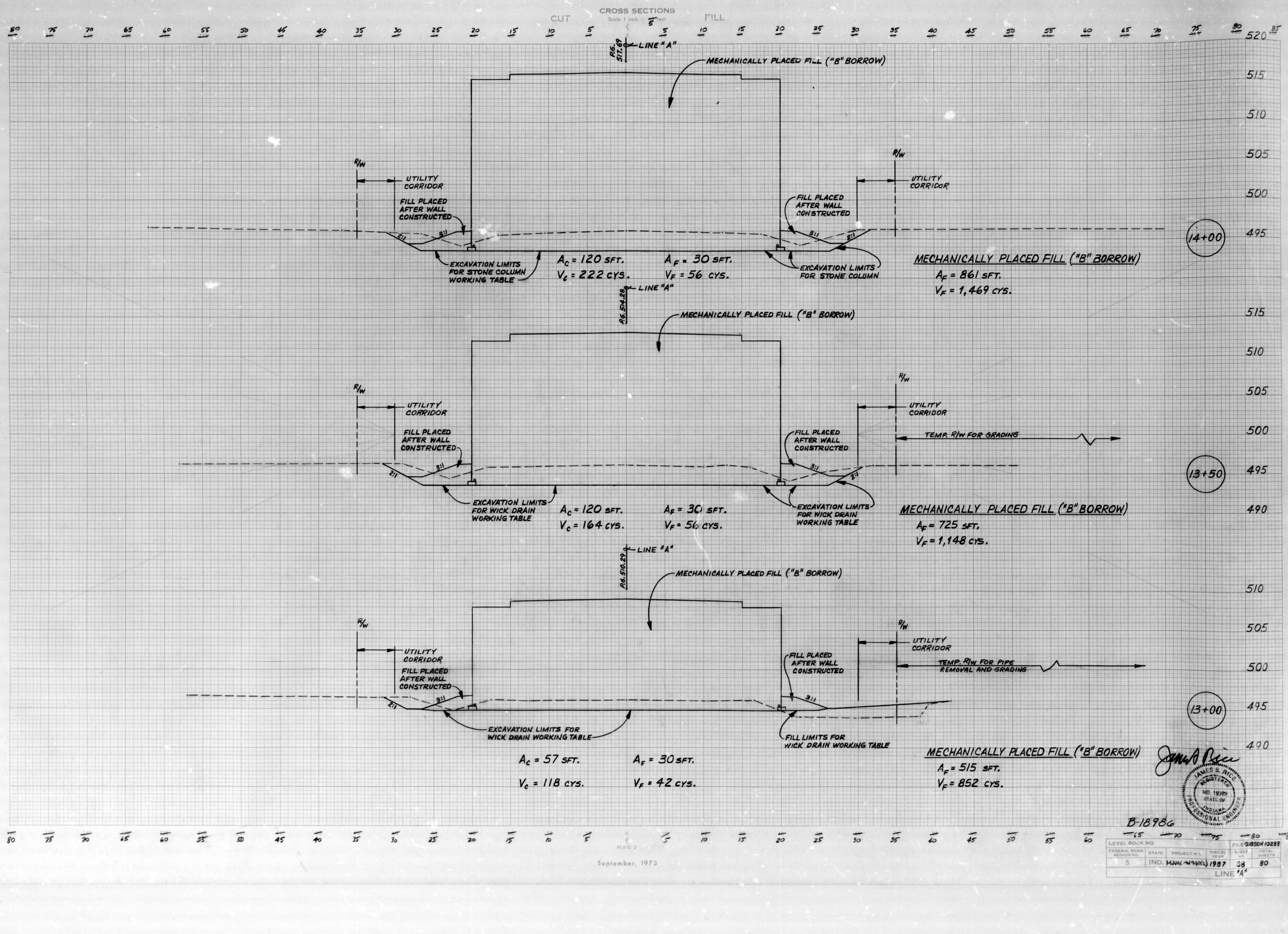
LINE "A"

TP192

CROSS SECTIONS

Scale 1 inch = 5 feet

CUT FILL



JAMES S. RICE
REGISTERED
NO. 19389
STATE OF
INDIANA
PROFESSIONAL ENGINEER

B-18986

LEVEL BOOK NO.					FILE: GIBSON 10283
FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	[illegible]	1987	38	80

LINE "A"

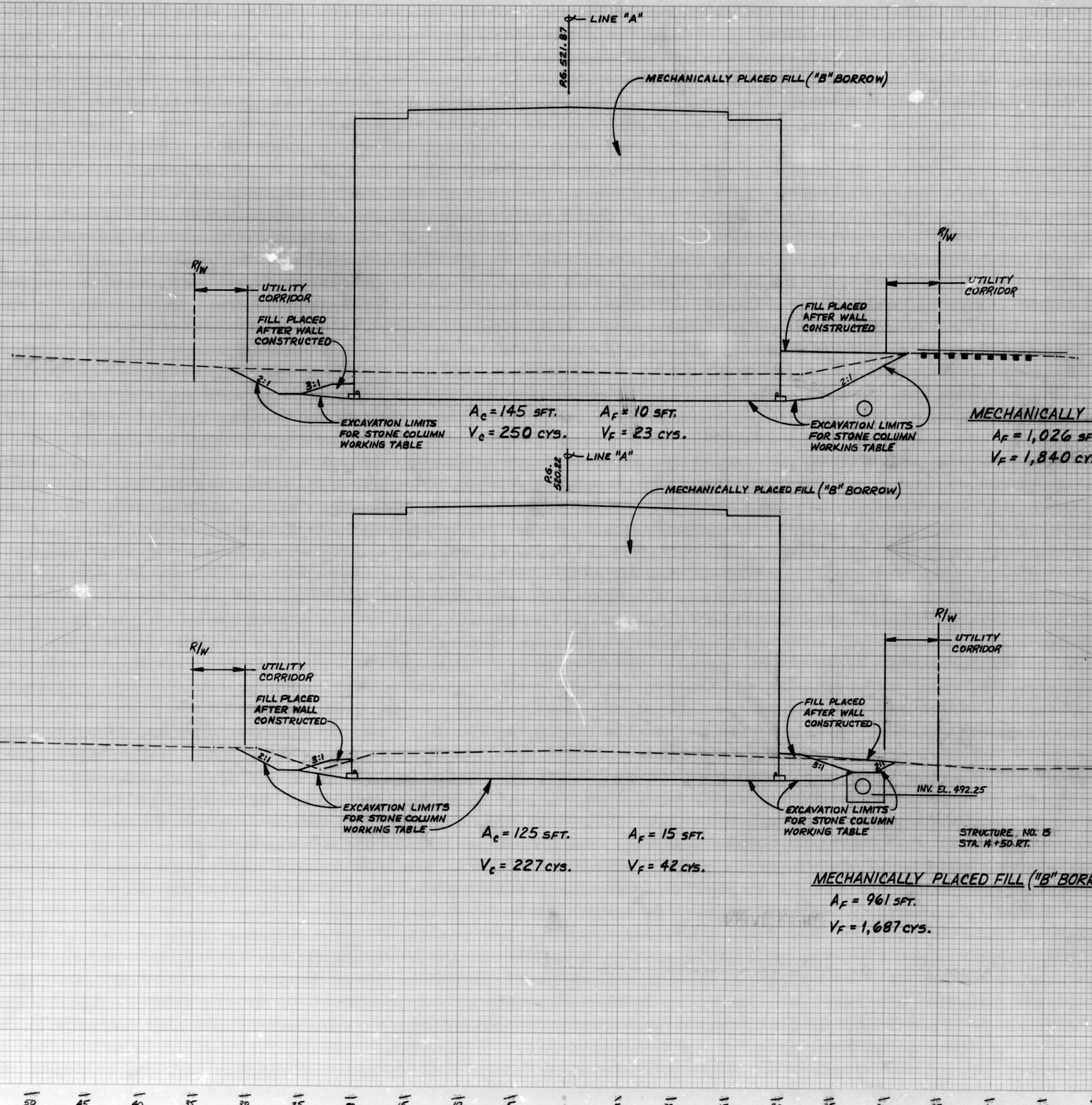
PLATE 3

September, 1973

TP122

CROSS SECTIONS

CUT — Scale 1 inch = 5 feet — FILL



520 515 510 505 500 495 490

JAMES S. RICE REGISTERED NO. 15388 STATE OF INDIANA PROFESSIONAL ENGINEER

B-18986

PLATE 3

September, 1972

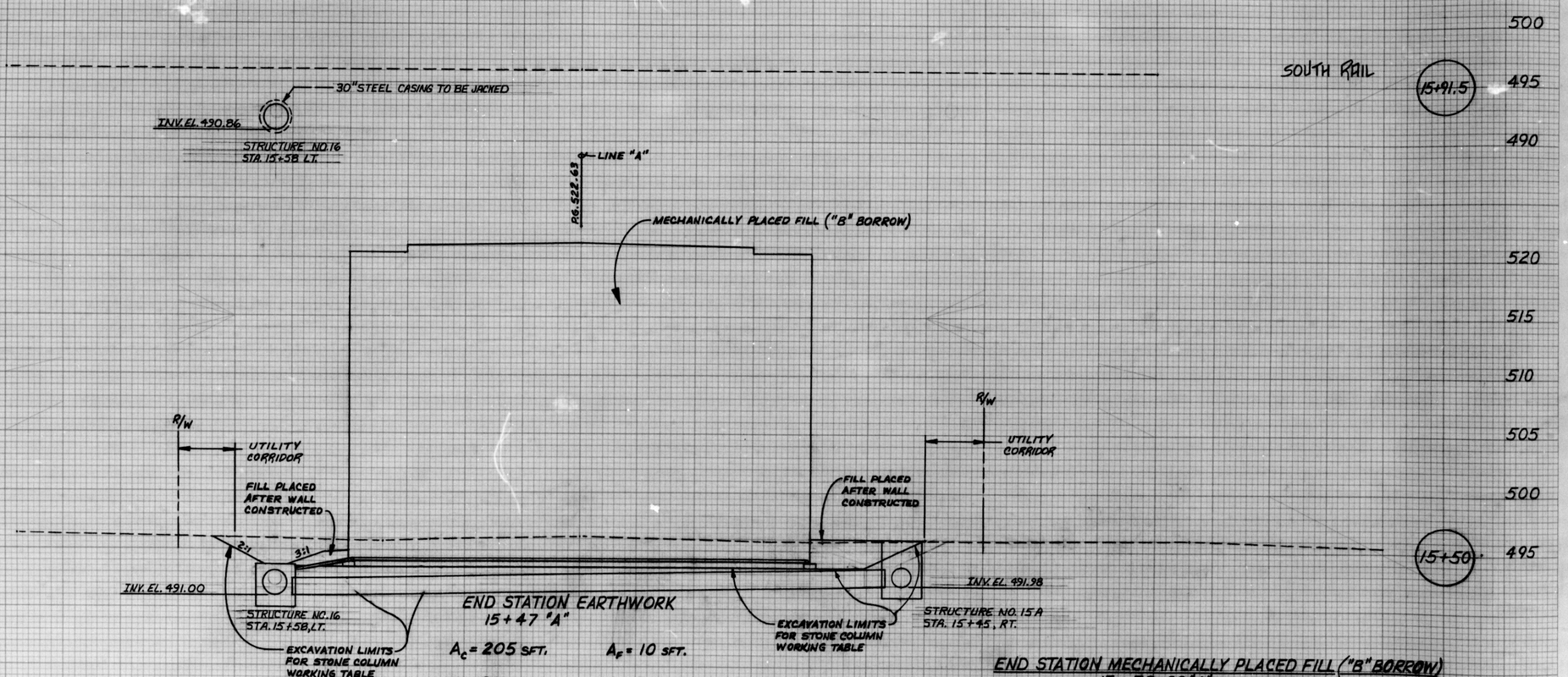
LEVEL BOOK NO.				FILE GIBSON 10299	
FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	MANG-W949(2)	1987	39	80

LINE "A"

CROSS SECTIONS

Scale 1 inch = 5 feet

CUT — FILL



END STATION EARTHWORK
15+47 "A"

A_c = 205 SFT. A_F = 10 SFT.

V_c = 305 CYS. V_F = 18 CYS.

END STATION MECHANICALLY PLACED FILL ("B" BORROW)
15+50.00 "A"

A_F = 1,077 SFT.

V_F = 1,947 CYS.

JAMES S. RICE
REGISTERED
NO. 15381
STATE OF
INDIANA
PROFESSIONAL ENGINEER

B-18986

LEVEL BOOK NO.				FILE GIBSON 10200	
FEDERAL ROAD SECTION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	[illegible]	1987	40	90
LINE "A"					

PLATE 3

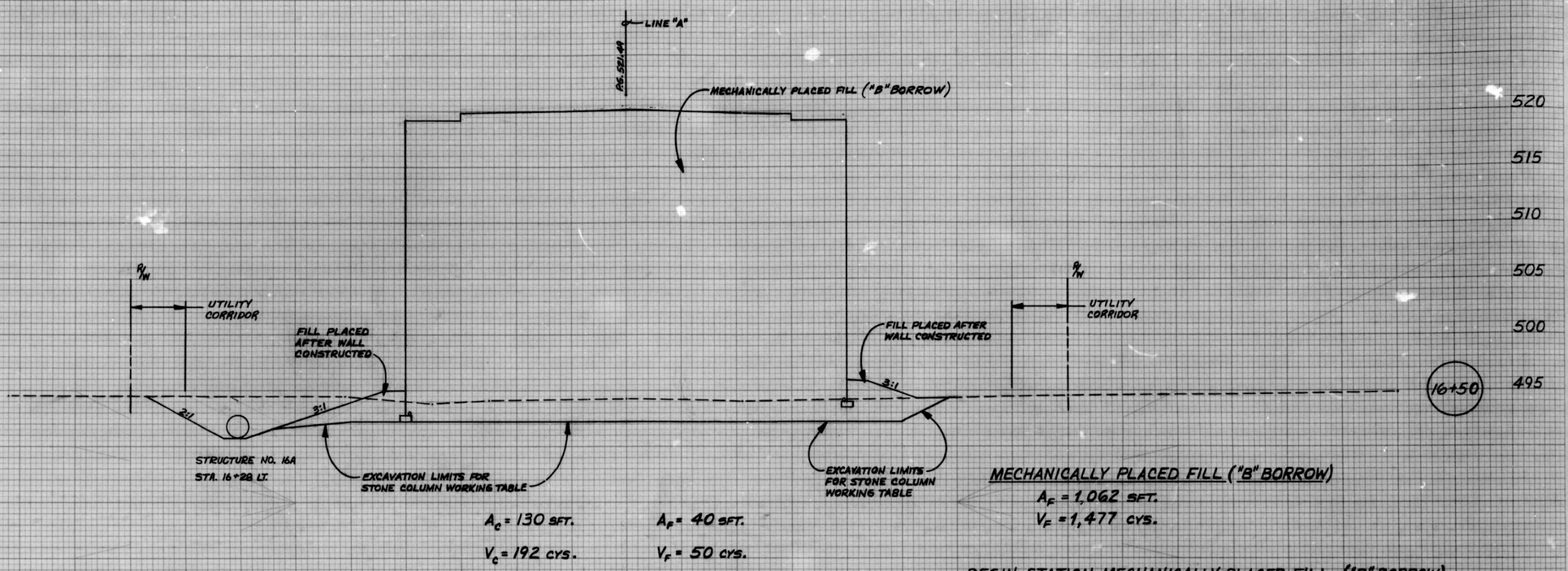
September, 1973

TP122

CROSS SECTIONS

Scale 1 inch = 5 feet

CUT 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 ℄ 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 FILL



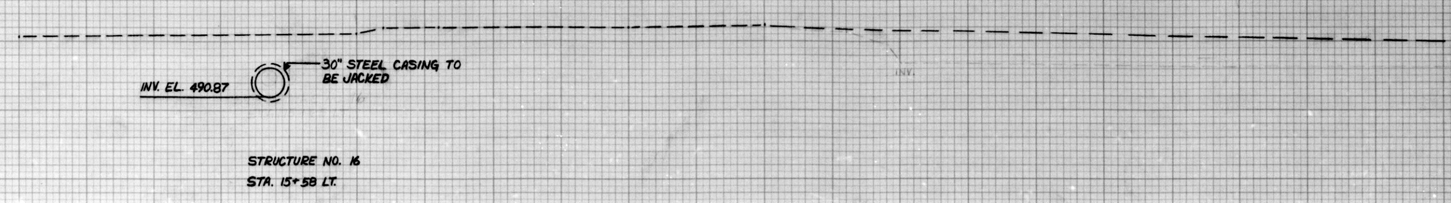
A_C = 130 SFT. A_F = 40 SFT.

V_C = 192 CYS. V_F = 50 CYS.

BEGIN STATION EARTHWORK
16+15 "A"
A_C = 100 SFT. A_F = 20 SFT.

MECHANICALLY PLACED FILL ("B" BORROW)
A_F = 1,062 SFT.
V_F = 1,477 CYS.

BEGIN STATION MECHANICALLY PLACED FILL ("B" BORROW)
16+13.00 "A"
A_F = 1,094 SFT.



STRUCTURE NO. 16
STA. 15+58 LT.

JAMES S. RICE
REGISTERED
NO. 16388
STATE OF
INDIANA
PROFESSIONAL ENGINEER

B-18986

80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 ℄ 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85

PLATE 3

September, 1973

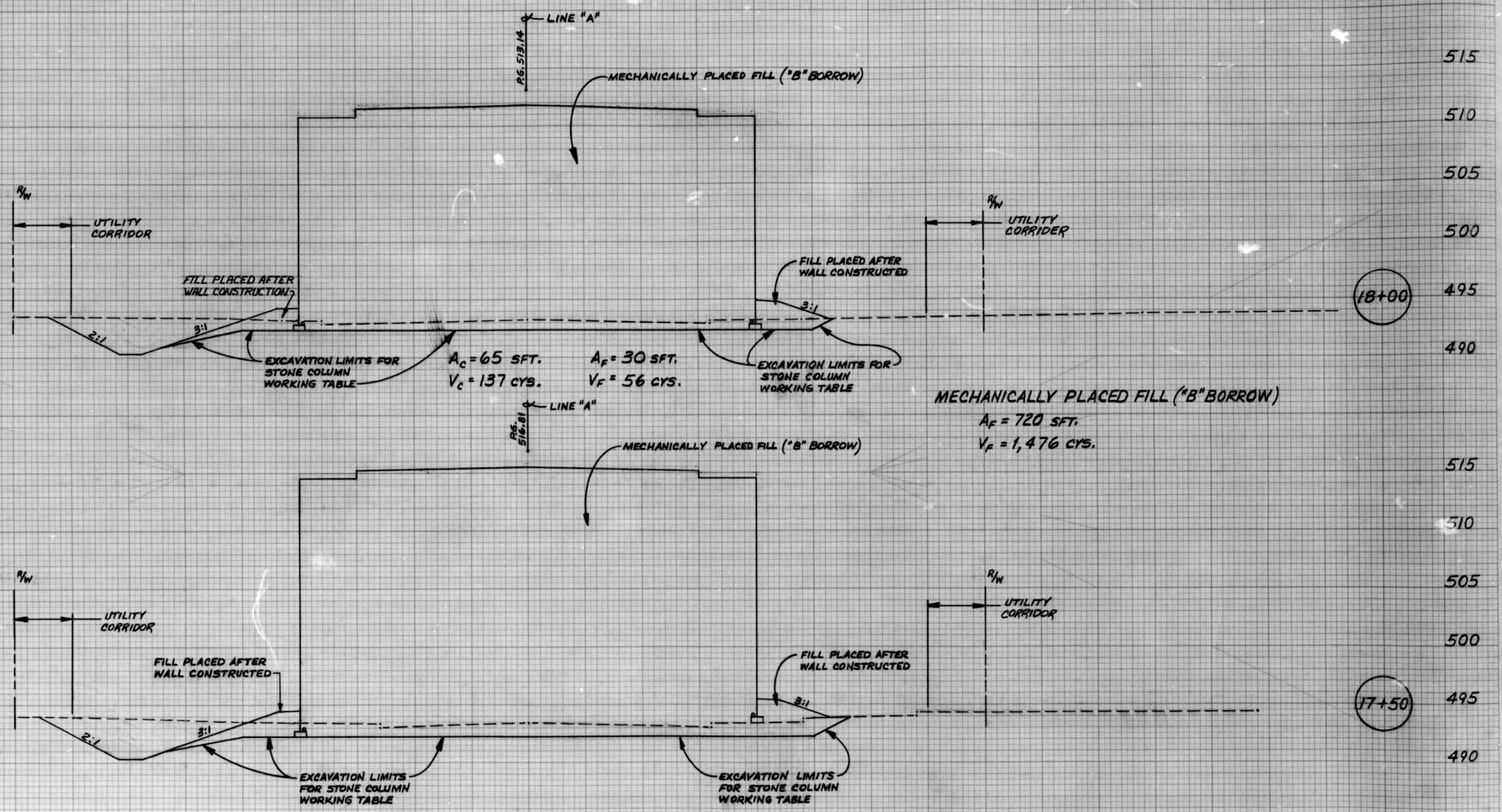
LEVEL BOOK NO.				FILE GIBSON 10228	
FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	[illegible]	1987	41	80

LINE "A"

TP122

CROSS SECTIONS
Scale 1 inch = 5 feet

CUT FILL



JAMES R. RICE
REGISTERED
NO. 10388
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B-18986

PLATE 3

September, 1973

LEVEL BOOK NO.					FILE GIES01/10789
FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	MAMC-M930(2)	1987	42	90

LINE "A"

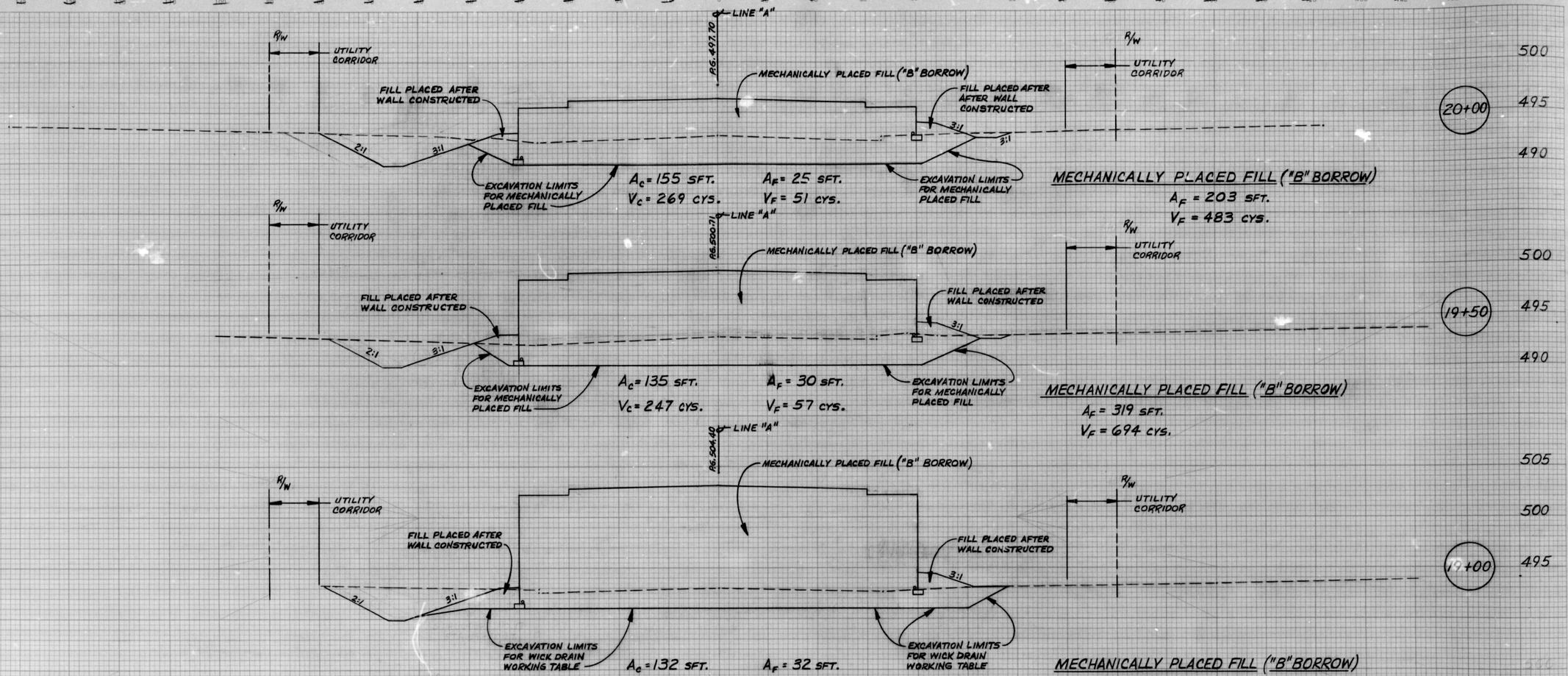
TP122

CROSS SECTIONS

Scale 1 inch = 5 feet

CUT ℄ FILL

80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85



James S. Rice

JAMES S. RICE REGISTERED NO. 19381 STATE OF INDIANA PROFESSIONAL ENGINEER

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PLATE 3

September, 1973

TP122

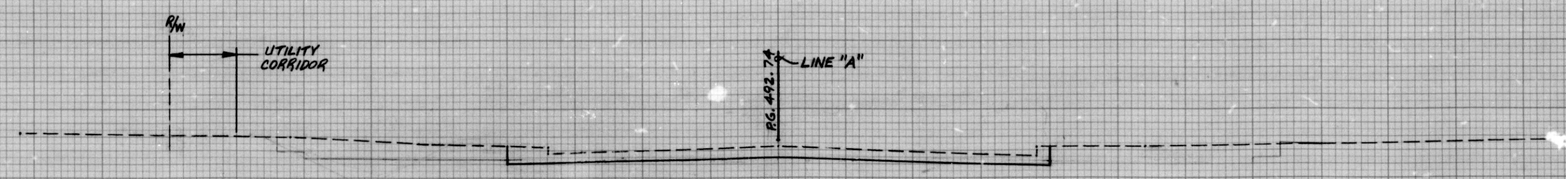
LEVEL BOOK NO.				FILE	5182-24(3269)
FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	HAM-HPP-80(42)	1987	43	80
LINE "A"					

CROSS SECTIONS

Scale 1 inch = 5 Feet

CUT ℄ FILL

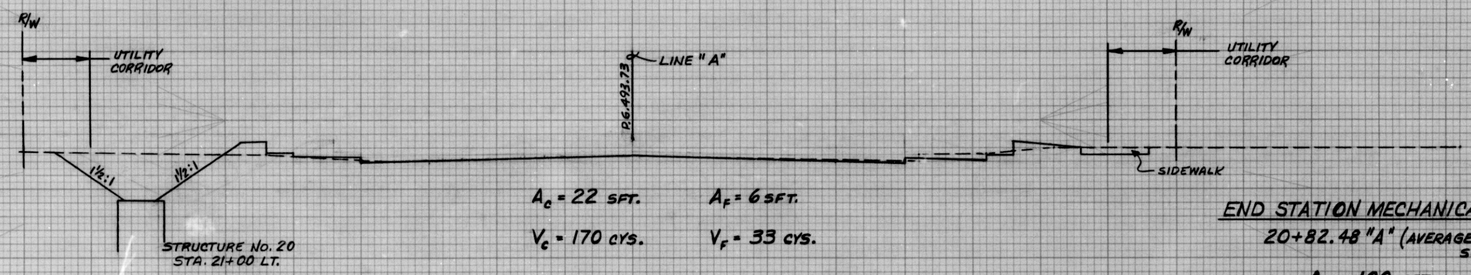
80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85



500
21+50
495
490

A_c = 32 SFT. A_F = 0 SFT.

V_c = 50 CYS. V_F = 6 CYS.



500
21+00
495
490

A_c = 22 SFT. A_F = 6 SFT.

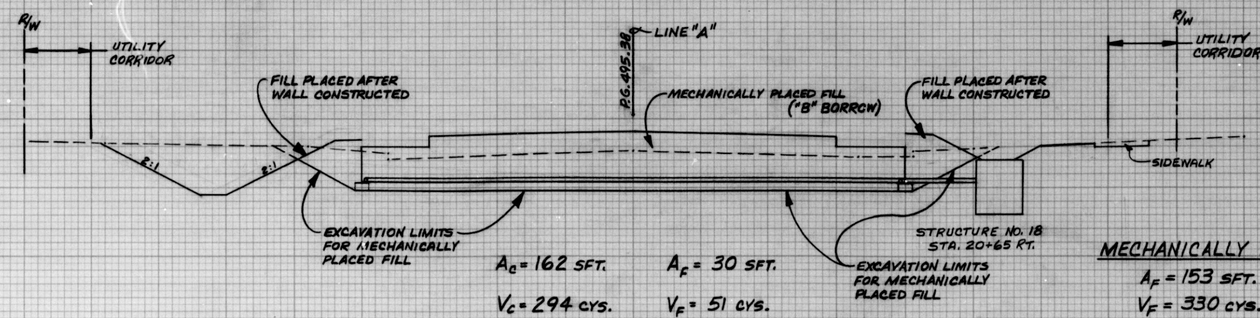
V_c = 170 CYS. V_F = 33 CYS.

END STATION MECHANICALLY PLACED FILL ("B" BORROW)

20+82.48 "A" (AVERAGE OF TWO SEPARATE STATIONS, SEE SHT. 27)

A_F = 100 SFT.

V_F = 152 CYS.



500
20+50
495
490

A_c = 162 SFT. A_F = 30 SFT.

V_c = 294 CYS. V_F = 51 CYS.

MECHANICALLY PLACED FILL ("B" BORROW)

A_F = 153 SFT.

V_F = 330 CYS.

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80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 ℄ 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85

PLATE 3

September, 1973

LEVEL BOOK NO.				FILE 51990/10239	
FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	HAMA-M-9900(0)	1987	44	90

LINE "A"

JP122

CROSS SECTIONS

Scale 1 inch = 5 feet

CUT FILL

80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85

500
495
490

23+00

500
495
490

DRIVE RIGHT

22+75

500
495
490

R/W UTILITY CORRIDOR

R/W

22+50

500
495
490

R/W UTILITY CORRIDOR

R/W UTILITY CORRIDOR

22+00

500
495
490

LINE "A"

TOTAL CUT = 3,878 CYS.
TOTAL FILL = 1,142 CYS.
FILL +20% = 1,370 CYS.

TOTAL "B" BORROW = 20,275 CYS.

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END EARTHWORK STA. 21+82.50 "A"

A_c = 32 SFT. A_c = 0. SFT.
V_c = 39 CYS. V_c = 0 CYS.

80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85

PLATE 3

September, 1973

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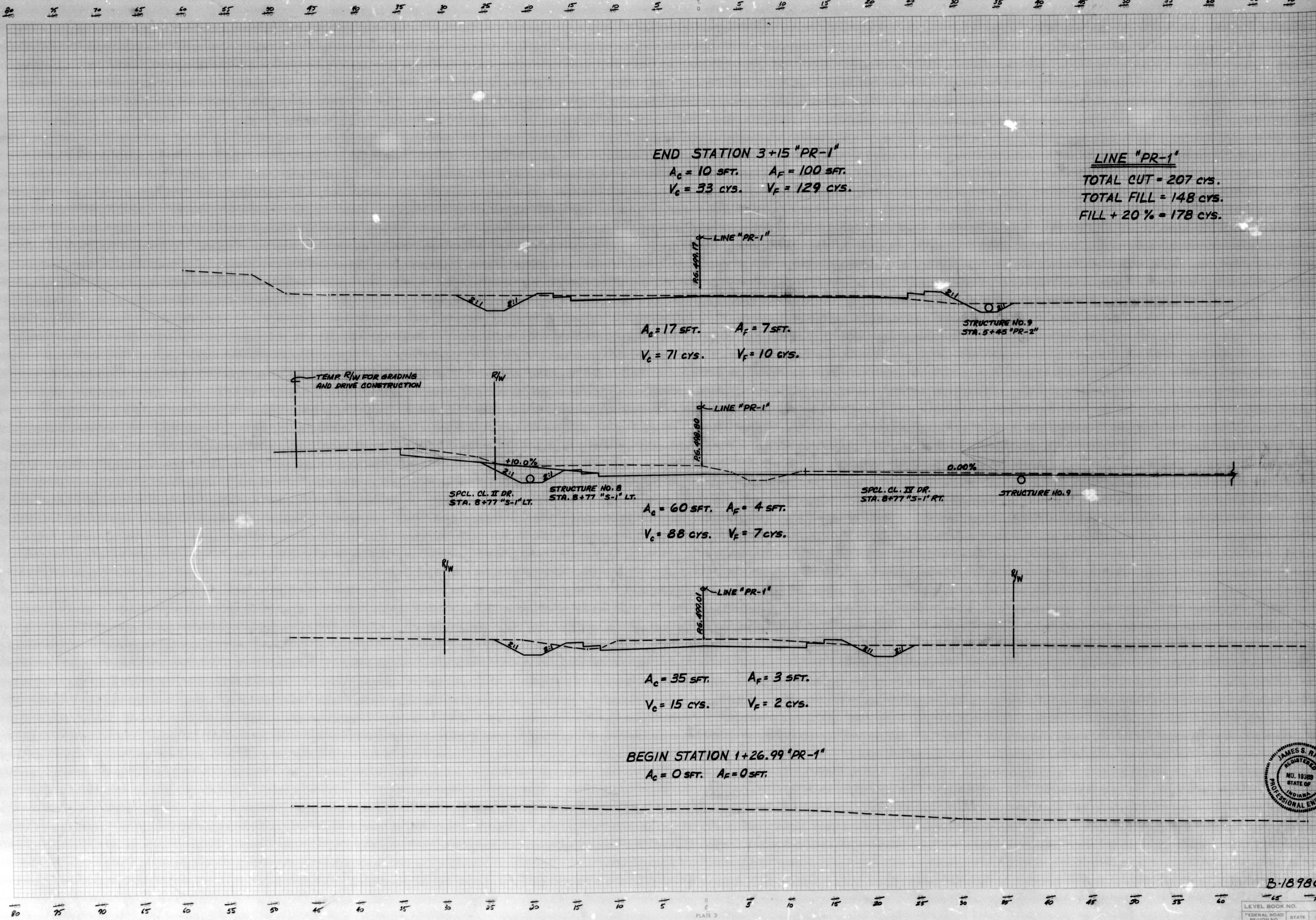
LEVEL BOOK NO.					FILE GIBSON 10088	
FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	[illegible]	1987	45	80

LINE "A"

IP122

CROSS SECTIONS
Scale 1 inch = 5 feet

CUT | FILL



JAMES S. RICE
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PLATE 3

September, 197_

TP122

LEVEL BOOK NO.				FILE	
FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	M-MG-MA(6)	1987	46	80

LINE "PR-1"

CROSS SECTIONS

Scale 1 inch = 5 feet

CUT — FILL

END STATION 290' RT.

A_c = 1 SFT. A_f = 1 SFT.

V_c = 3 CYS. V_f = 5 CYS.

+77 SPCL. CL. IX DR.

TOTAL CUT = 4 CYS.

TOTAL FILL = 7 CYS.

FILL + 20% = 8 CYS.

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SPECIAL CLASS IX DRIVE

STA. 8+77 LINE "S-1" RT.

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PLATE 3

September, 1973

TP122

LEVEL BOOK NO.				FILE GIBSON 10289	
FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	[illegible]	1987	47	80
LINE					

CROSS SECTIONS
Scale 1 inch = 5 feet

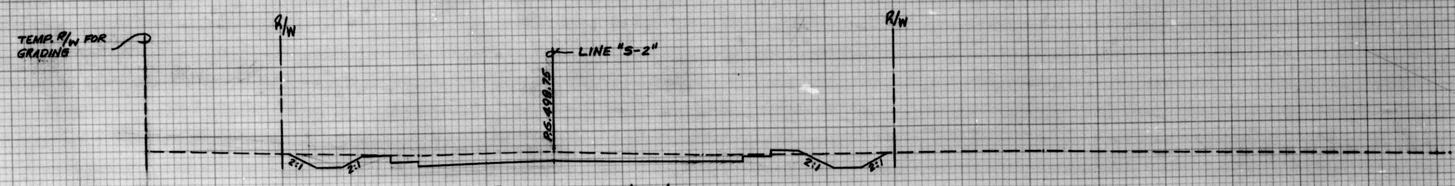
CUT FILL

11+92 500
495
500
11+75
495
505
11+50 500
495
505
11+07 500
495
505
11+00 500
495
505
10+50 500
495

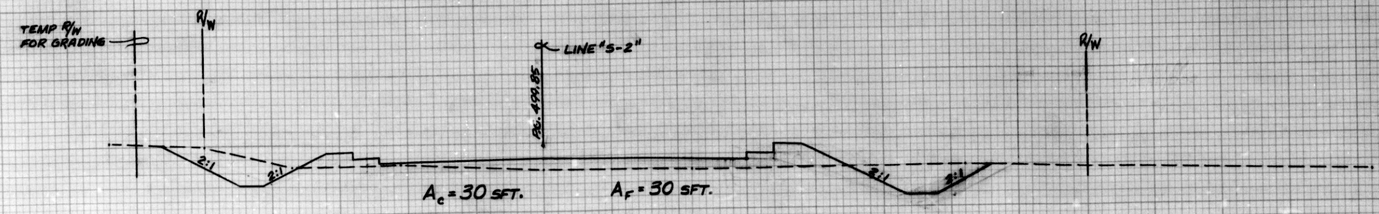
END STATION 11+50 "S-2"
A_c = 0 SFT. A_F = 0 SFT.
V_c = 23 CYS. V_F = 1 CYS.

LINE "S-2"
TOTAL CUT = 91 CYS.
TOTAL FILL = 69 CYS.
FILL + 20% = 83 CYS.

SPCL CL. II DR.
STA. 11+07 LT.



A_c = 25 SFT. A_F = 1 SFT.
V_c = 51 CYS. V_F = 29 CYS.



A_c = 30 SFT. A_F = 30 SFT.
V_c = 17 CYS. V_F = 39 CYS.

BEGIN STATION 10+20 "S-2"
A_c = 0 SFT. A_F = 40 SFT.

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LEVEL BOOK NO.					FILE: GIBSON 13288	
FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.		1987	48	80

LINE "S-2"

PLATE 3

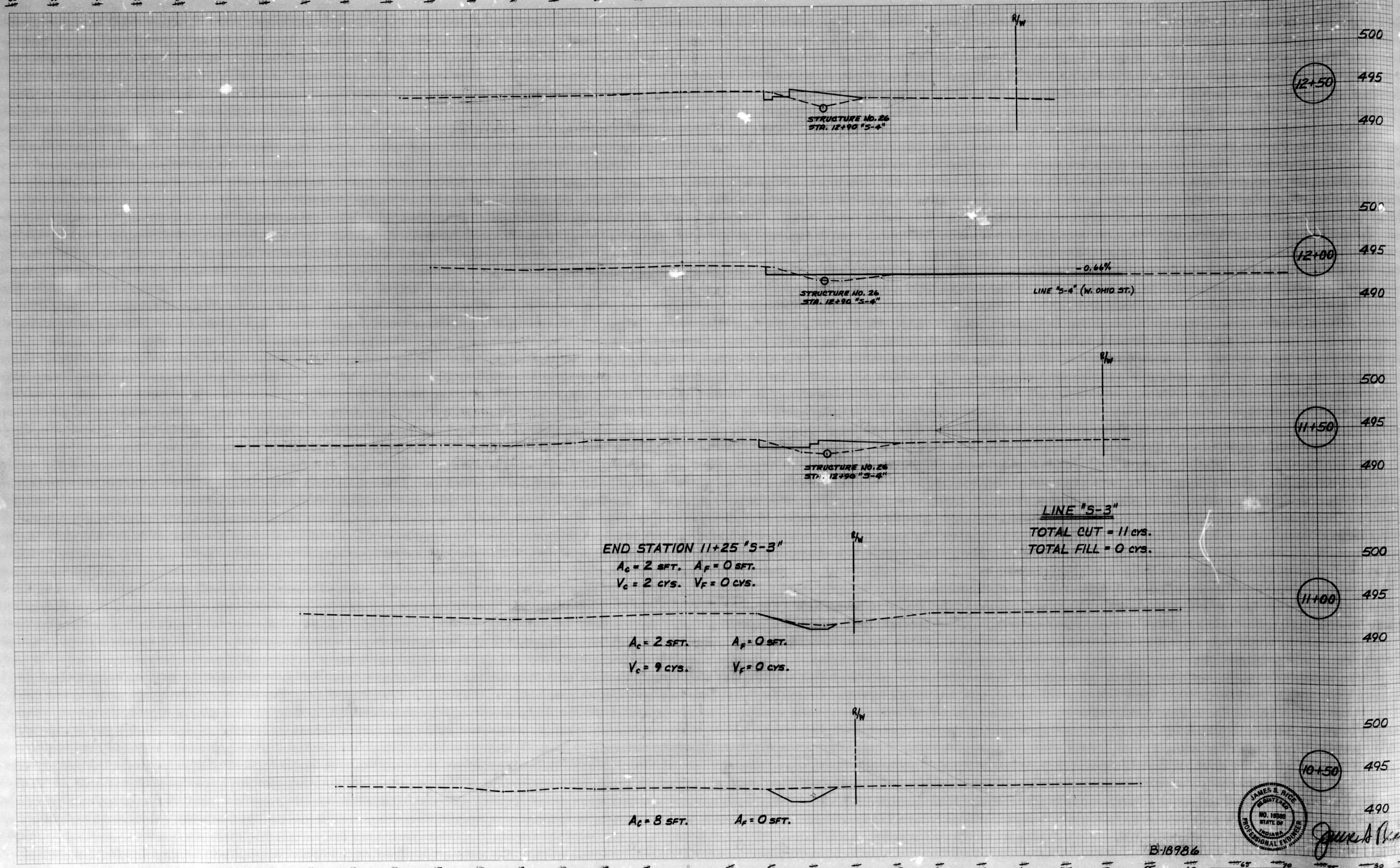
September, 1973

TP122

CROSS SECTIONS

Scale 1 inch = 5 feet

CUT — ℄ — FILL



B-18986

JAMES S. RICE REGISTERED NO. 10988 STATE OF INDIANA PROFESSIONAL ENGINEER

LEVEL BOOK NO.					FILE GIBSON 10/80	
FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
5	IND.	[illegible]	1987	49	80	
LINE "S-3"						

PLATE 3

September, 1973

TP122

CROSS SECTIONS

Scale 1 inch = 5 feet

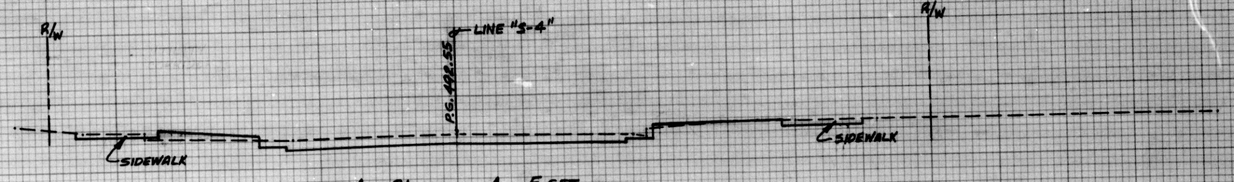
CUT

FILL

END STA. 9+80 "S-4"

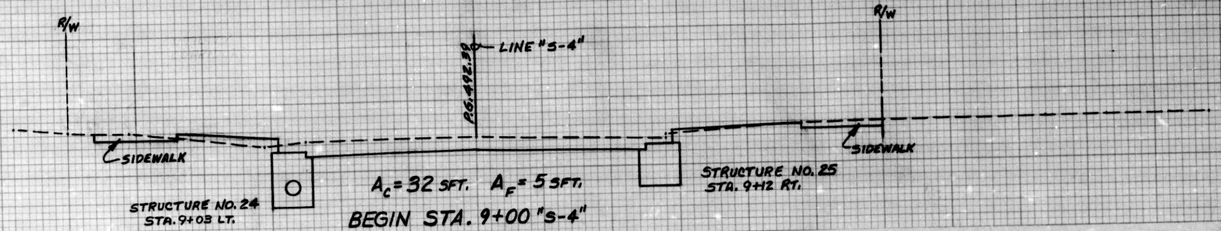
A_c = 60 SFT. A_F = 10 SFT.

V_c = 45 CYS. V_F = 8 CYS.



A_c = 21 SFT. A_F = 5 SFT.

V_c = 49 CYS. V_F = 9 CYS.



A_c = 32 SFT. A_F = 5 SFT.

BEGIN STA. 9+00 "S-4"

500
9+50
495
490
500
9+00
495
490

B-18986

JAMES B. RICE
REGISTERED
NO. 10300
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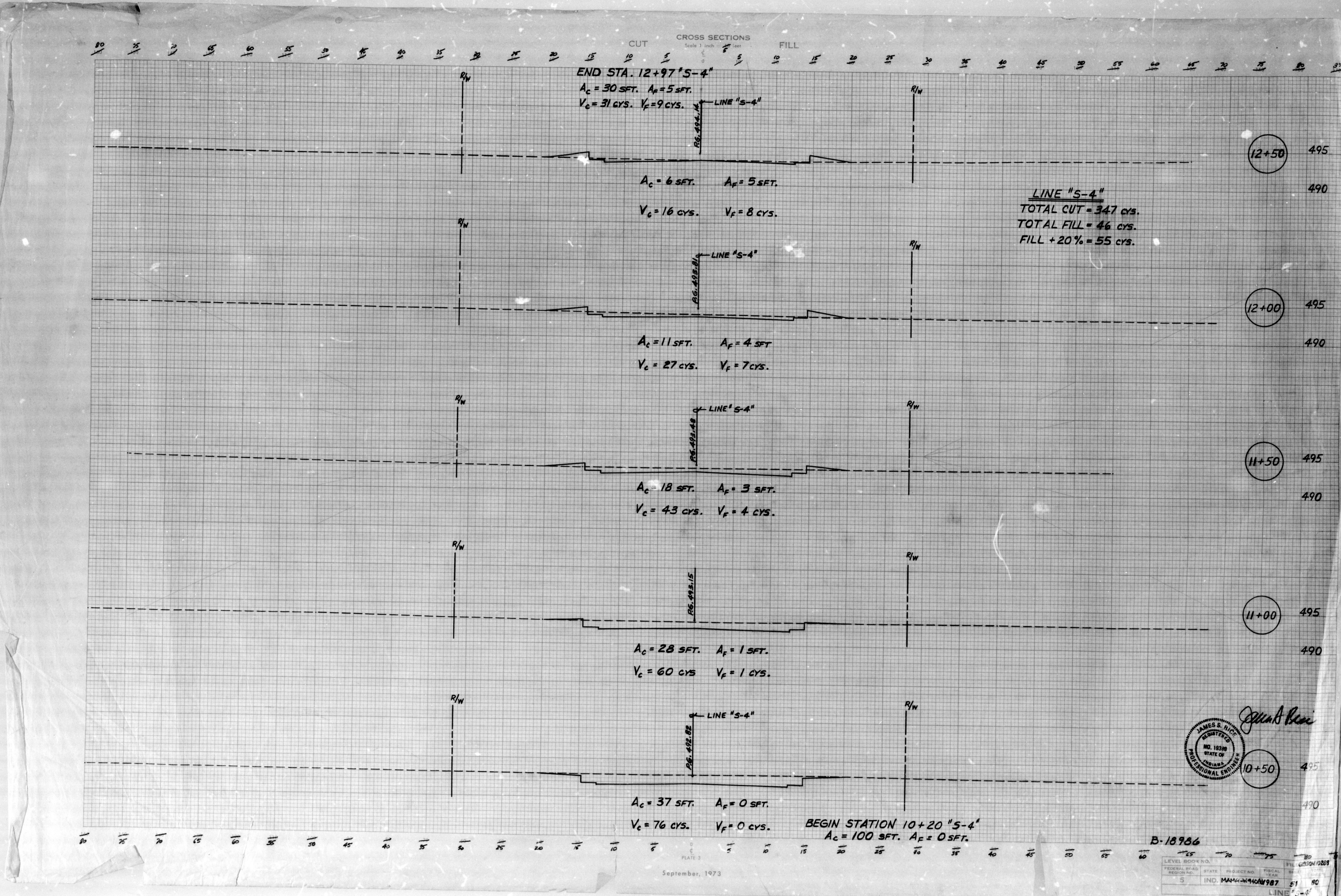
LEVEL BOOK NO.					FILE 9B30M10300
FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.		1987	30	80

LINE "S-4"

PLATE 3

September, 1973


CROSS SECTIONS
CUT
FILL
Scale 1 inch = 5 feet
END STA. 12+97 "S-4"
Ac = 30 SFT. AF = 5 SFT.
Vc = 31 CYS. VF = 9 CYS.
LINE "S-4"
P.G. 494.14
R/W
12+50
495
490
Ac = 6 SFT. AF = 5 SFT.
Vc = 16 CYS. VF = 8 CYS.
LINE "S-4"
TOTAL CUT = 347 CYS.
TOTAL FILL = 46 CYS.
FILL + 20% = 55 CYS.
P.G. 493.81
12+00
Ac = 11 SFT. AF = 4 SFT
Vc = 27 CYS. VF = 7 CYS.
P.G. 493.48
11+50
Ac = 18 SFT. AF = 3 SFT.
Vc = 43 CYS. VF = 4 CYS.
P.G. 493.15
11+00
Ac = 28 SFT. AF = 1 SFT.
Vc = 60 CYS VF = 1 CYS.
P.G. 492.82
10+50
Ac = 37 SFT. AF = 0 SFT.
Vc = 76 CYS. VF = 0 CYS.
BEGIN STATION 10+20 "S-4"
Ac = 100 SFT. AF = 0 SFT.
JAMES S. RICE REGISTERED NO. 10399 STATE OF INDIANA PROFESSIONAL ENGINEER
B-18986
PLATE 3
September, 1973
LEVEL BOOK NO.
FILE GIBSON 10288
FEDERAL ROAD REGION NO. 5
STATE IND.
PROJECT NO. MAM4-W940(…)987
SHEET NO. 51
TOTAL SHEETS 80
LINE "S-4"