

INDEX					
PROJECT	STRUCTURE	TYPE	SPAN	OVER	STATION
BRM - X255(3)	50-36-6788	CONTINUOUS REINFORCED CONC. SLAB	THREE SPAN 26'-3", 31'-6", 26'-3"	VON FANGE DITCH	STA. 486+20.50 LINE "R"
SHEET NO.	SHEET DESIGNATION	SUBJECT			F.H.W.A. APPROVAL
1	ONE SHEET	TITLE SHEET			
2	ROAD SHEET	TYPICAL CROSS SECTION			
3	ONE SHEET	SOIL BORINGS			
4	ONE SHEET	EROSION CONTROL			
5-7	DETAIL SHEETS	RETAINING WALL DETAILS			
8	C1 STR. 50-36-6788	LAYOUT			
9	C2 STR. 50-36-6788	GENERAL PLAN			
10	C3 - - -	SUPERSTRUCTURE DETAILS			
11	C4 - - -	SUPERSTRUCTURE DETAILS			
12	C5 - - -	SUPERSTRUCTURE DETAILS & BILL OF MATERIALS			
13	C6 - - -	TRAFFIC SIGN DETAILS			
14	C7 - - -	SUMMARY			
15	C8 - - -	ESTIMATE OF QUANTITIES			
16-22	C9 - - -	CROSS SECTIONS			

STATE OF INDIANA
INDIANA DEPARTMENT OF HIGHWAYS

BRIDGE PLANS

FOR SPANS OVER 20 FEET

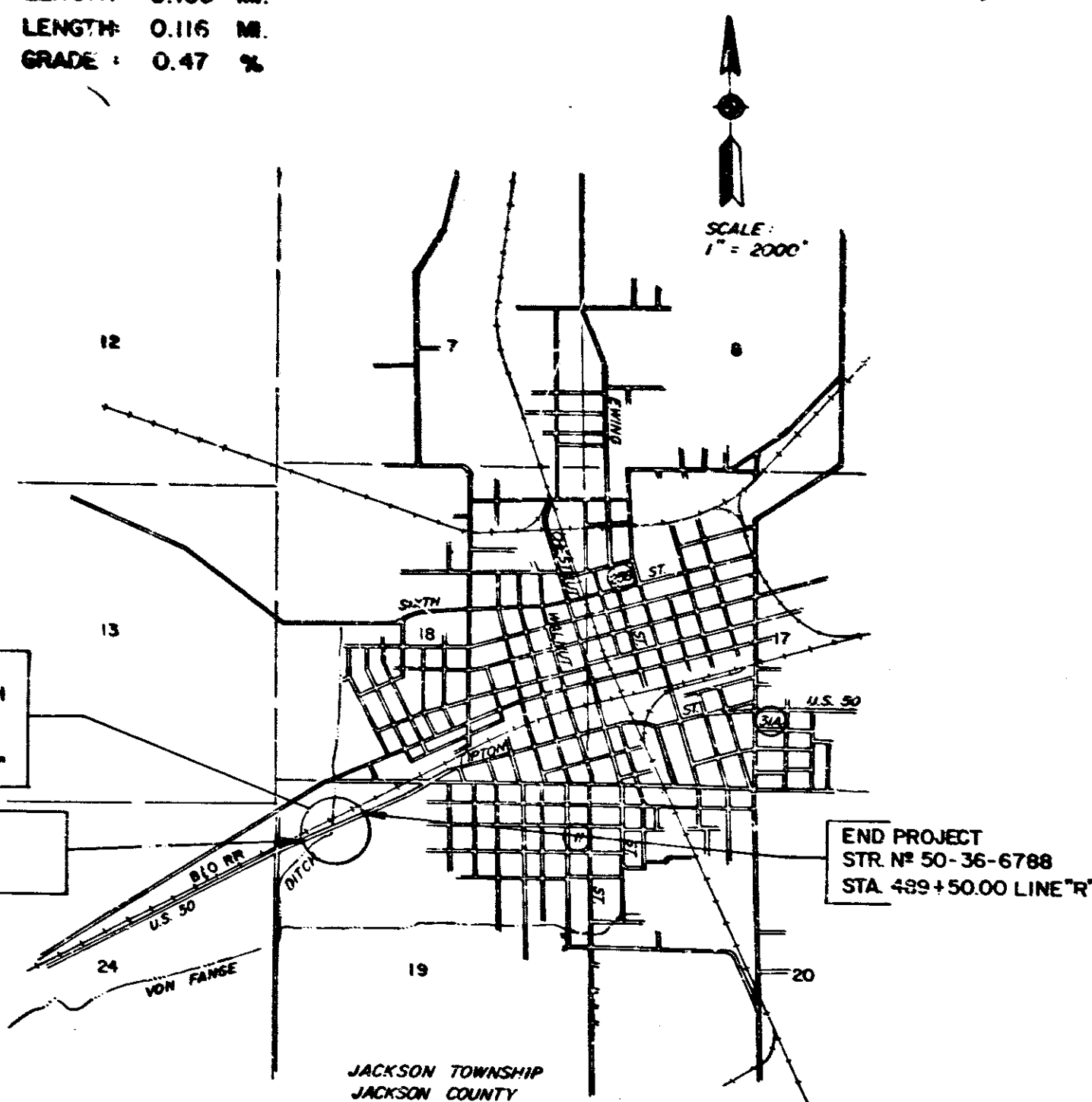
ON

STATE ROAD NO. US 50

PROJECT NO. ST - X255 (A) PE
ST - X255 (A) R/W
BRM - X255 (3) CONSTR

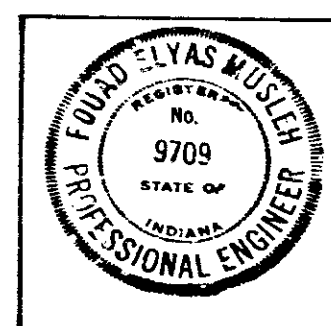
BEGINNING AT A POINT BEING THE SOUTHWEST CORNER OF THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 19, T-6-N, R-6-W, THENCE NORTHERLY ALONG THE NORTH-SOUTH SECTION LINE 257.63 FEET TO A POINT BEING THE CENTER LINE OF US 50, THENCE NORTHEASTERLY ALONG SAID CENTER LINE 975.06 FEET TO CENTER LINE OF STRUCTURE OVER VON FANGE DITCH. ALL POINTS BEING IN JACKSON TOWNSHIP, JACKSON COUNTY, INDIANA.

BRIDGE LENGTH: 0.016 MI.
ROADWAY LENGTH: 0.100 MI.
TOTAL LENGTH: 0.116 MI.
MAX. GRADE: 0.47 %



TRAFFIC DATA		
A.D.T. (1982)		7045 V.P.D.
A.D.T. (2002 PROJECTED)		9715 V.P.D.
D.M.V. (2002 PROJECTED)		972 V.P.D.
TRUCKS		D.M.V. 11 % A.D.T. 12 %
DESIGN SPEED		60 M.P.H.
ACCESS CONTROL		NONE

NOTE:--
WHENEVER M-X255 () APPEARS IN THESE PLANS OR CONTRACT DOCUMENTS IT SHALL BE INTERPRETED AS BRM-X255 (3)



THESE PLANS PREPARED BY
CLYDE E. WILLIAMS & ASSOCIATES INC.
PROFESSIONAL ENGINEERS
SOUTH BEND, INDIANAPOLIS
CERTIFIED DATE 7-15-83

DATE	REVISIONS SHEET NO.

DATE	REVISIONS SHEET NO.
2-13-84	8
3-13-84	8
3-22-84	1, 2, 17, 18, 22
11-19-84	1, 3, 5, 7, 8, 9, 11, 12, 14, 15
12-18-84	12

INDIANA DEPARTMENT OF HIGHWAYS
STANDARD SPECIFICATIONS DATED 1978
TO BE USED WITH THESE PLANS.

BRIDGES OVER 20' SPAN					
FEDERAL SECTION NO.	STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	BRM-X255(3)	1983	1	47

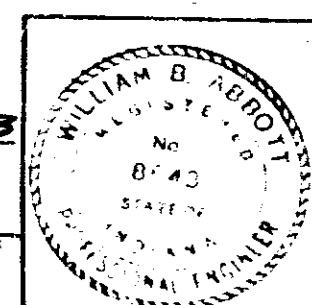
INDEX CONTINUED			
SHEET NO.	SHEET DESIGNATION	SUBJECT	F.H.W.A. APPROVAL
23	BRIDGE STD. BR1	ALUMINUM BRIDGE RAILING	
24	BRIDGE STD. BR2	ALUMINUM BRIDGE RAILING DETAILS	R-10-23-84
25	BRIDGE STD. BR3	STEEL BRIDGE RAILING	R-10-23-84
26	BRIDGE STD. BR4	STEEL BRIDGE RAILING DETAILS	12-16-80 R-11-2-80
	BRIDGE STD. BR5	RAILING CONNECTION DETAILS	5-10-79 R-12-1-78
	BRIDGE STD. BR6	RAILING CONNECTION DETAILS	
27	BRIDGE STD. C1	MISCELLANEOUS DETAILS	12-21-81 R-12-7-81
	BRIDGE STD. C2	MISCELLANEOUS DETAILS	
28	BRIDGE STD. C3	MISCELLANEOUS DETAILS	12-21-81 R-12-7-81
	BRIDGE STD. C4	MISCELLANEOUS DETAILS	
	BRIDGE STD. D	CASTING DETAILS ROADWAY DRAINS	12-4-74 R-10-25-74
	BRIDGE STD.		
	BRIDGE STD.		
	BRIDGE STD. PB	PRESTRESSED CONCRETE TYPE I-BEAMS	
	BRIDGE STD. PB	PRESTRESSED CONCRETE TYPE I-BEAMS	
	BRIDGE STD. PB	PRESTRESSED COMPOSITE BOX BEAMS WIDE	
	BRIDGE STD. PB	PRESTRESSED COMPOSITE BOX BEAMS WIDE	
	BRIDGE STD. PBIC	TOLERANCES FOR FABRICATION OF PRESTRESSED BEAMS	
	BRIDGE STD. PBLI	ELASTOMERIC BEARING PAD DETAILS	
	BRIDGE STD.		
	BRIDGE STD.		
	BRIDGE STD. R2A	BRIDGE LIGHTING DETAILS	
	BRIDGE STD. R2B		
30	BRIDGE STD. S1	MISCELLANEOUS DETAILS	1-17-72 R-8-2-71
	BRIDGE STD. S1	STEEL SHOE DETAILS	
30A	BRIDGE STD. T SHEET A	STANDARD TEMPORARY BRIDGE	R-9-19-84
30B	BRIDGE STD. T SHEET B	STANDARD TEMPORARY BRIDGE	1-12-60 R-11-15-59
	BRIDGE STD.		
	BRIDGE STD.		
	BRIDGE STD.		
31A	ROAD STD. SHEET A	STANDARD PAYMENT JOINTS	R-9-4-84
	ROAD STD. SHEET B	STANDARD PAYMENT JOINTS	
31	ROAD STD. SHEET MA	MISCELLANEOUS STANDARDS	R-9-4-84
	ROAD STD. SHEET MB	MISCELLANEOUS STANDARDS	
32	ROAD STD. SHEET MB2	MISCELLANEOUS STANDARDS	R-9-4-84
	ROAD STD. SHEET MC	MISCELLANEOUS STANDARDS	
	ROAD STD. SHEET MD	MISCELLANEOUS STANDARDS	
	ROAD STD. SHEET ME	MISCELLANEOUS STANDARDS	
	ROAD STD. SHEET ME2	MISCELLANEOUS STANDARDS	R-9-4-84
33	ROAD STD. SHEET MH1	MISCELLANEOUS STANDARDS	
	ROAD STD. SHEET MH2	MISCELLANEOUS STANDARDS	A-30-84 R-6-1-84
	ROAD STD. SHEET MI	MISCELLANEOUS STANDARDS	B-30-84 R-6-1-84
	ROAD STD. SHEET MI2	MISCELLANEOUS STANDARDS	
	ROAD STD. SHEET MJ	MISCELLANEOUS STANDARDS	
	ROAD STD. SHEET MJ2	MISCELLANEOUS STANDARDS	
	ROAD STD. SHEET MK	MISCELLANEOUS STANDARDS	
	ROAD STD. SHEET ML	MISCELLANEOUS STANDARDS	
	ROAD STD. SHEET MN	MISCELLANEOUS STANDARDS	
	ROAD STD. SHEET MO	MISCELLANEOUS STANDARDS	
	ROAD STD. SHEET MP	MISCELLANEOUS STANDARDS	7-19-83 R-5-2-83
	ROAD STD. SHEET MQ	MISCELLANEOUS STANDARDS	
	ROAD STD. SHEET MR	MISCELLANEOUS STANDARDS	
37	ROAD STD. SHEET RA1 & 2	MISCELLANEOUS STANDARDS-TRAFFIC SIGN DETAILS	8-30-82 A JULY 82
	ROAD STD.	STANDARD BEINF. CONCRETE BOX CULVERTS	
	ROAD STD.	STANDARD BEINF. CONCRETE CULVERTS	
	ROAD STD. SHEET GR	GUARD RAIL CLASS	
	ROAD STD. SHEET GR	GUARD RAIL CLASS	
38	ROAD STD. SHEET GR4	GUARD RAIL CLASS	R-4-2-84
39	ROAD STD. SHEET GR5	GUARD RAIL CLASS	R-4-1-82
40	ROAD STD. SHEET GR6	GUARD RAIL CLASS	R-4-1-82
	ROAD STD. SHEET GR	STEEL TUBE GUARD RAIL DETAILS	
41	ROAD STD. SHEET BRIC	GUARD RAIL BUILT UP	5-21-82 R-4-1-82
42	ROAD STD. SHEET CB2	TEMPORARY CONCRETE BARRIERS	R-6-1-82
	ROAD STD.		
	ROAD STD. SHEET T DETOURS	STANDARD DETOUR SIGNS	
	ROAD STD. SHEET T DETOURS	STANDARD DETOUR SIGNS	
	ROAD STD. SHEET T DETOURS	STANDARD DETOUR SIGNS	
43	ROAD STD. SHEET 2 DETOURS	STANDARD DETOUR SIGNS	4-10-84 R-2-1-84
44	ROAD STD. SHEET 2A DETOURS	STANDARD DETOUR SIGNS	4-10-84 R-2-1-84
45	ROAD STD. SHEET 3 DETOURS	STANDARD DETOUR SIGNS	4-10-84 R-2-1-84
	ROAD STD. SHEET 3A DETOURS	STANDARD DETOUR SIGNS	
46	ROAD STD. SHEET 5 DETOURS	STANDARD DETOUR SIGNS	12-8-83 R-10-3-83
47	ROAD STD. SHEET 5A DETOURS	STANDARD DETOUR SIGNS	4-10-84 R-2-1-84

* FHWA APPROVAL PENDING

APPROVED 9-1-83

CHIEF HIGHWAY ENGINEER - INDIANA DEPARTMENT OF HIGHWAYS

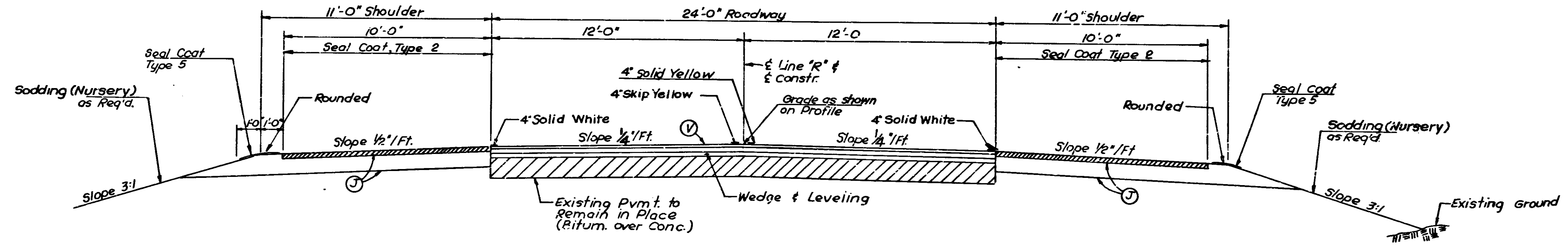
RECOMMENDED FOR APPROVAL 8-23-83



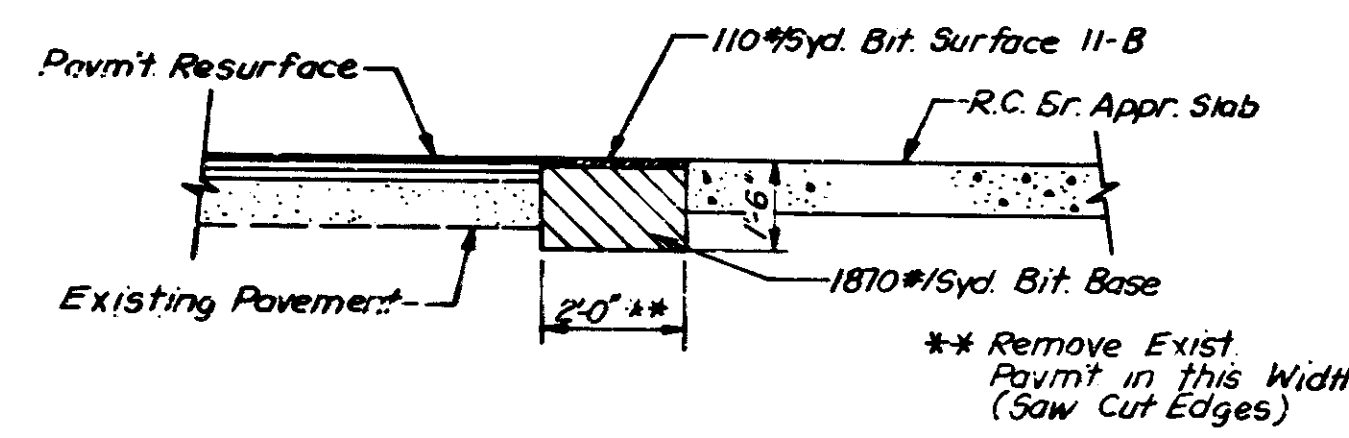
FEDERAL HIGHWAY ADMINISTRATION
DEPARTMENT OF TRANSPORTATION
APPROVED: _____
DIVISION ADMINISTRATOR DATE

BRIDGE FILE: 50-36-6788

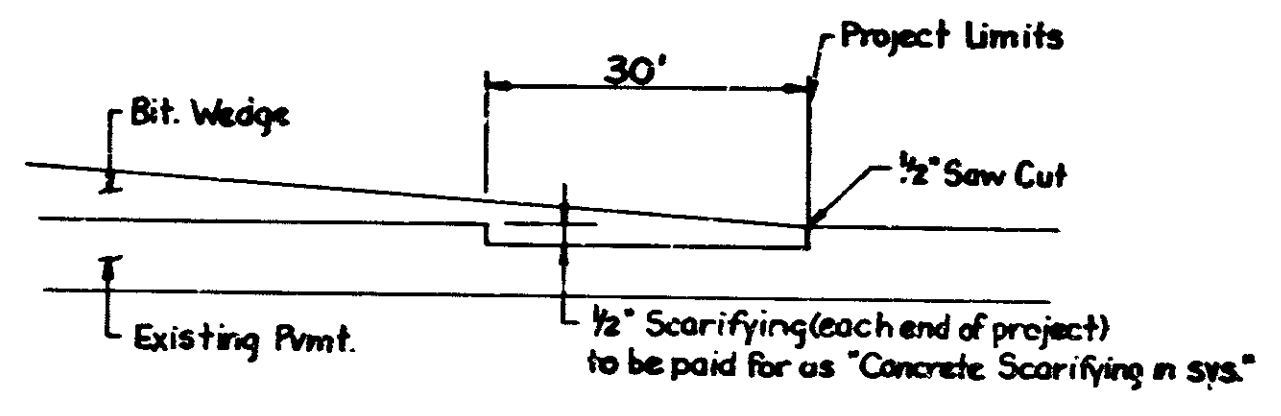
FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	IND.	M-X255(B)	1983	2	47



TYPICAL SECTION
 FROM STA. 483+40 TO STA. 485+77.44
 FROM STA. 486+63.56 TO STA. 489+50



PAVEMENT RELIEF JOINT DETAIL
 Scale: 3/8" = 1'-0"

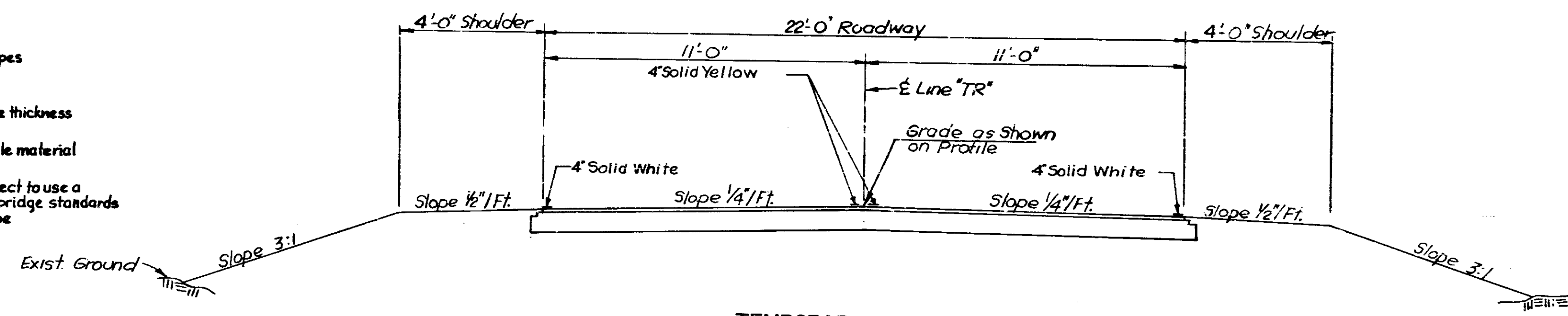


SCARIFICATION DETAIL

* NOTE: Unless otherwise specified the Contractor shall have the option of using either Hot Asphalt Concrete (HAC) or Hot Asphalt Emulsion (H.A.E.) on all Bituminous items except surface

TEMPORARY PIPE STRUCTURE REQUIRED
 Centerline Station 486+63+
 Pipes to be 60' min length
 Total opening below EL. 567 to be 25 sft.
 Opening to be provided by one or more pipes
 Minimum pipe size to be 36"
 Pipes to be Group 'D' or better
 See Special Provisions for minimum pipe thickness
 Minimum pipe cover to be 2ft.
 Fill in stream to be clean, non-erodable material

As an alternate, the contractor may elect to use a temporary bridge in accordance with bridge standards TA and TB in lieu of the temporary pipe



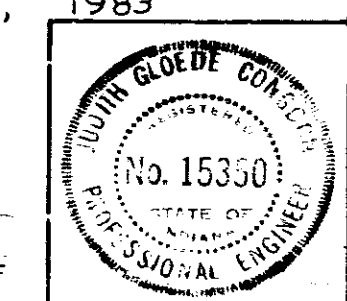
TEMPORARY RUNAROUND
 FROM STA. 9+66.75 "TR" TO STA. 15+93.41 "TR"

** 110#/syd. Hot A.C. Surface Type 11-B over 390#/syd. Bituminous Base Type 5D

** The 110#/syd. Bituminous Surface Type 11-B to be placed if Temporary Run-Around is to be in place over winter

- ① BITUMINOUS RESURFACE
 * 110#/syd. Bitum. Surface H.A.C. Type 11-B
 220#/syd. Binder No. 8 or No. 9
 330#/syd. Bitum. Base Avg. for Wedge and Leveling as required.
- ② 330#/syd. Bitum. Base (Size No. 5-D) on 9" Type 'O', Compacted Aggregate Base #53

TYPICAL CROSS SECTIONS
 JULY 15, 1983
 SCALE: 3/8" = 1'-0"

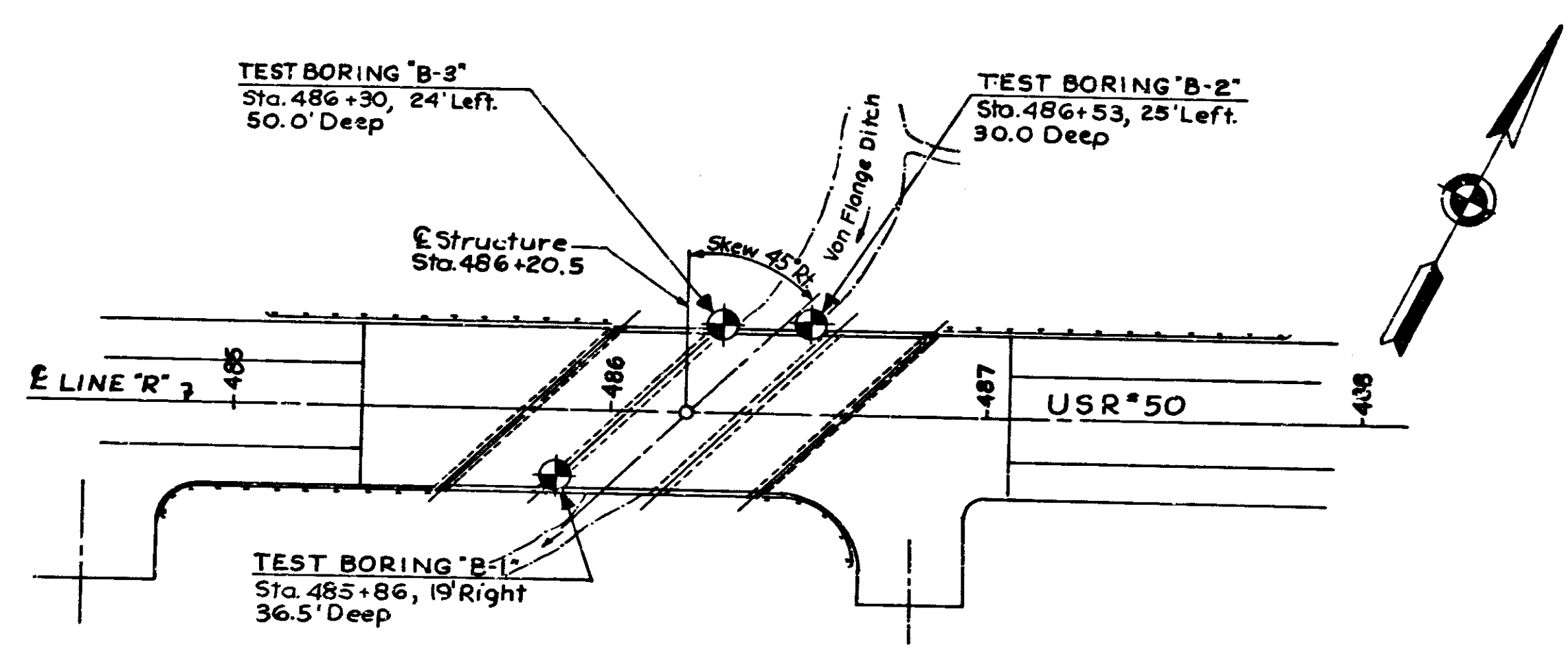


Rev. 11-9-84 Scarification Detail, Temporary Pipe Structure note added

Rev. 3-22-84 TEMPORARY RUNAROUND ADDED

Contr. B-15132

PROJECT NO.	LINE	SHEET	TOTAL SHEETS	FILE
M-X255(B)	R-TR	2	47	



PLAN
Scale: 1" = 30'-0"

BORING NO.	"B-1"				"B-2"				"B-3"			
	STATION 485+86 19' Right GROUND ELEV. 569.7				STATION 486+53 25' Left GROUND ELEV. 561.6				STATION 486+30 24' Left GROUND ELEV. 565.5			
	Sample No	Elev.	N	Description	Sample No	Elev.	N	Description	Sample No	Elev.	N	Description
	1	568.2	2-3-3	GROUND LEVEL				GROUND LEVEL				GROUND LEVEL
565	2	565.7	2-3-4	Brown moist loose to medium dense SANDY GRAVEL with rock fragments and some clay layers (fill) A-1-a					1	564.0	2-2-3	Black, very moist, soft CLAY LOAM with some organic matter A-4
560	3	563.2	5-7-6						2	561.5	2-3-4	Brown and gray very moist, medium stiff CLAY A-4
	4	560.7	5-6-7		1	560.9	1-1	Black, very moist, very soft CLAY LOAM with fine sand layers and little organic matter A-4	3	559.0	2-3-3	Brown and gray wet, loose to medium dense SAND A-4-b
	5	558.2	4-6-8	Brown moist to very moist medium dense SANDY LOAM with trace rock fragments (possible fill) A-4	2	560.1	2-2	Dark gray very moist, very loose SANDY LOAM with trace organic matter A-2-4	4	558.0	3-3-3	
555	6	555.7	10-12-8		3	557.6	2-3-4	Gray wet loose SAND A-3	5	555.5	5-1-10	
	7	553.2	8-10-12	Gray wet medium SAND A-1-b	4	555.1	4-5-5		6	554.0	4-6-8	
550	8	550.7	7-11-14		5	552.6	5-6-5	Gray wet medium dense SAND A-1-b	7	551.5	5-7-9	
	9	548.2	10-12-16		6	550.1	5-7-9	Dark brown wet medium dense SAND A-1-b	8	549.0	6-8-10	
545					7	547.6	6-8-11		9	546.5	5-7-8	
540	10	543.2	9-10-14	Brown wet medium dense SAND A-1-b	8	545.1	8-10-13		10	544.0	6-9-9	Gray wet medium dense SAND A-1-b
	11	538.2	10-13-16		9	542.6	7-10-11	Brown and gray wet medium dense SAND A-1-b	11	539.0	7-9-11	
535					10	540.1	9-12-16		12	534.0	6-9-9	
530	12	533.2	9-11-14		11	535.1	8-14-15		13	530.5		
				END OF BORING Depth of Boring - 36.5'	12	531.6	8-10-12		14	529.0	6-9-10	Gray wet medium dense SAND A-3
525								END OF BORING Depth of Boring - 30.0'	15	524.0	10-12-16	
520									14	520.5		
515									15	519.0	12-20-24	Gray wet dense to very dense SAND A-3
										515.5	14-26-32	
												END OF BORING Depth of Boring - 50.0'

▼ Denotes Ground Water Table
N-Indicates the Number of Blows required to drive a 1 7/8" I.D., 2" O.D. Split Spoon Sampler 6" by means of a 140# weight falling 30".

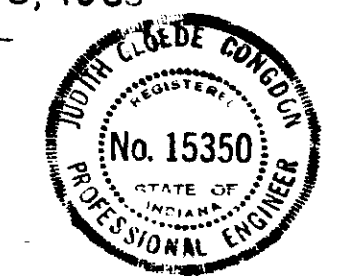
SOIL BORINGS
INDIANA DEPARTMENT OF HIGHWAYS
JACKSON COUNTY

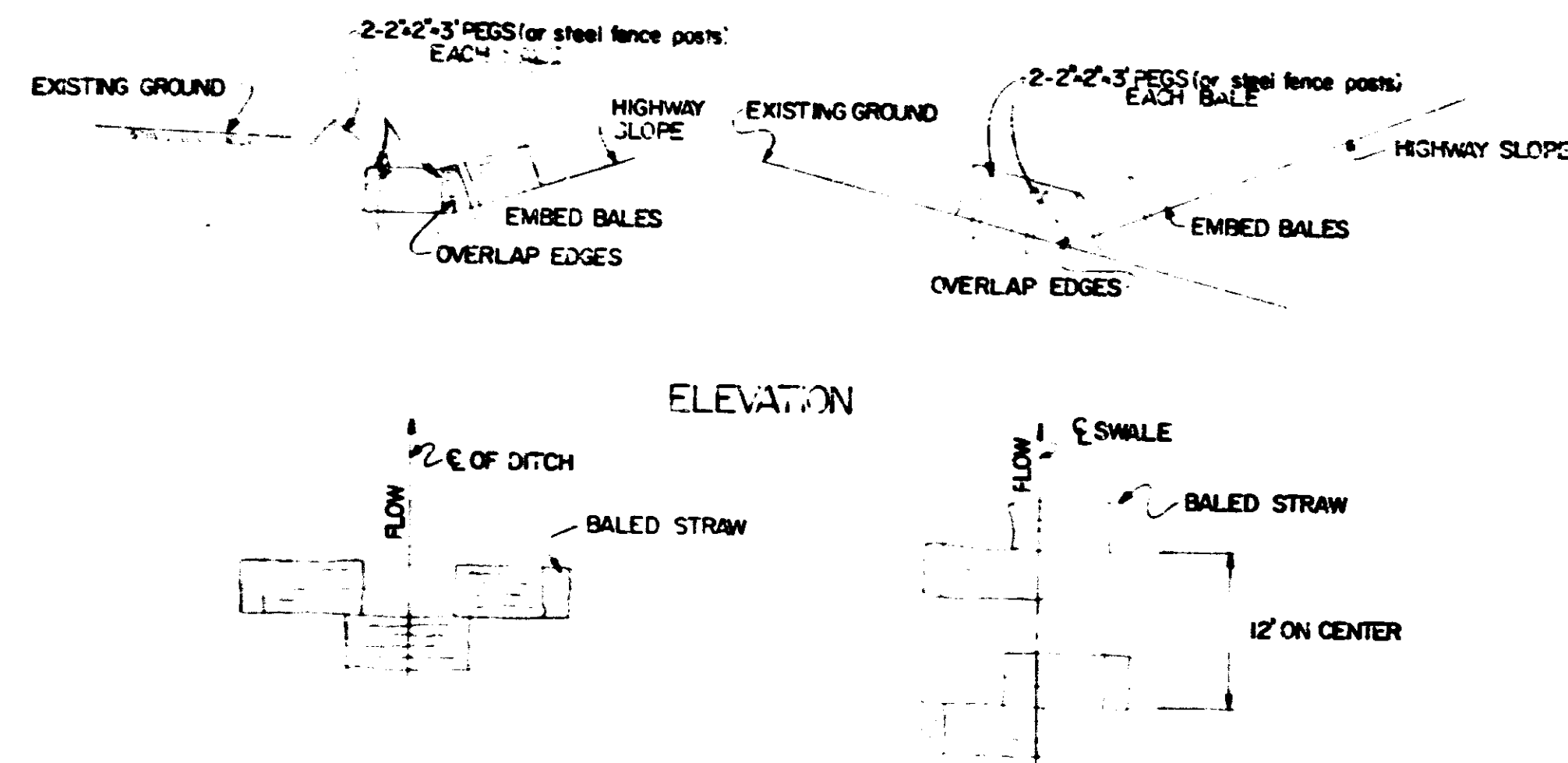
SCALE: HORIZ: 1" = 30'-0"
VERT: 1" = 5'-0"

JULY 15, 1983

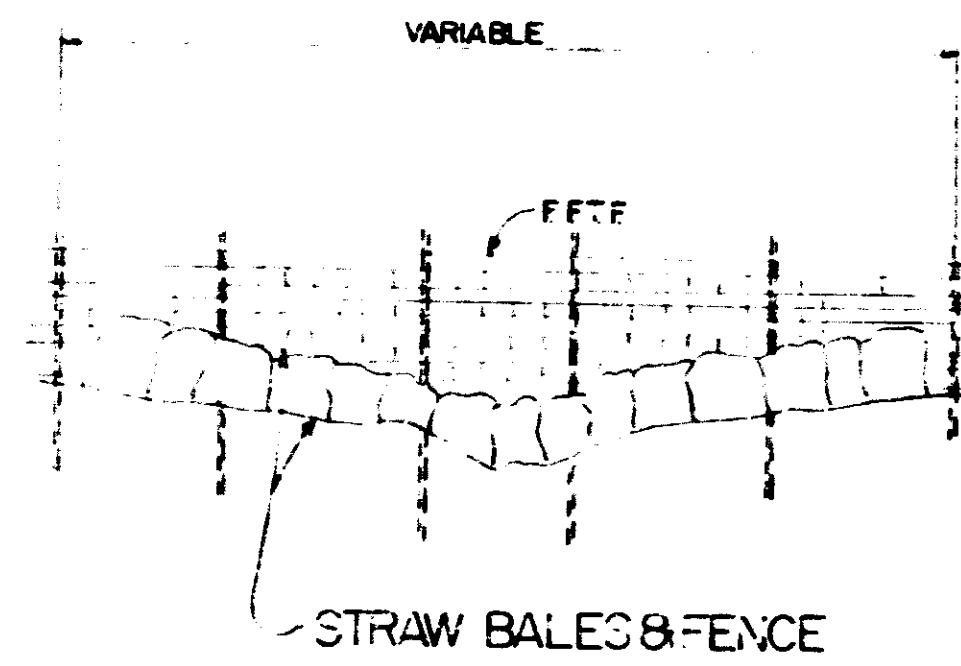
SHEET 3 OF 47

PROJECT: M-X255 ()
BRIDGE CONTRACT NO.: 3-15132
BRIDGE FILE: 50-36-6788

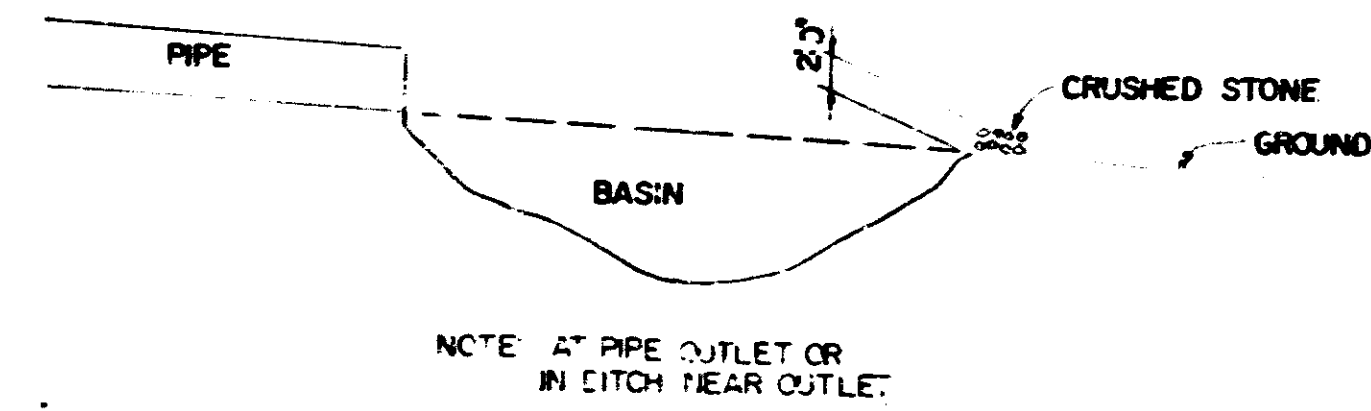




PLAN
METHOD A

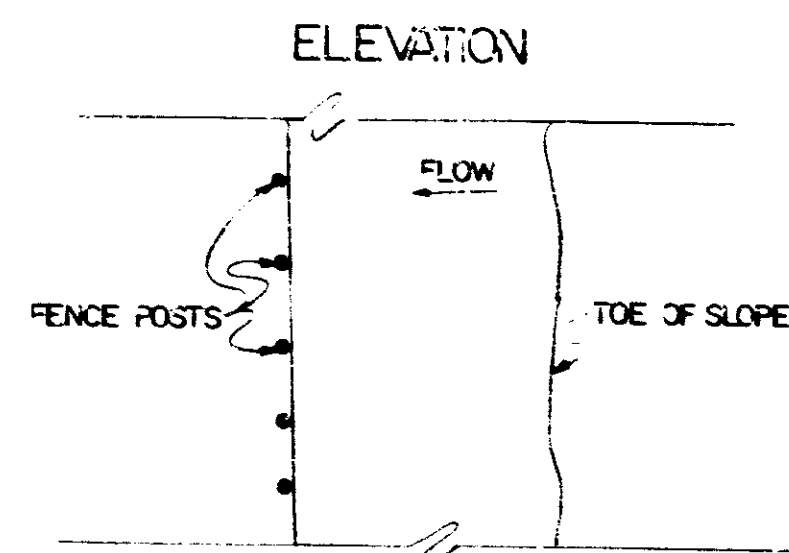
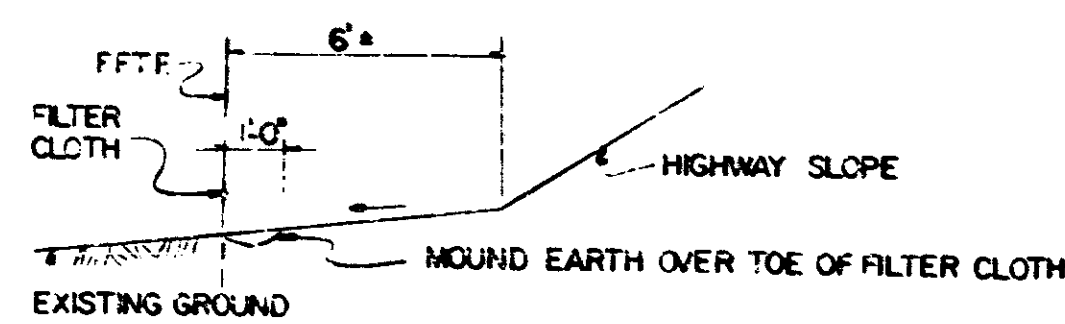


METHOD B

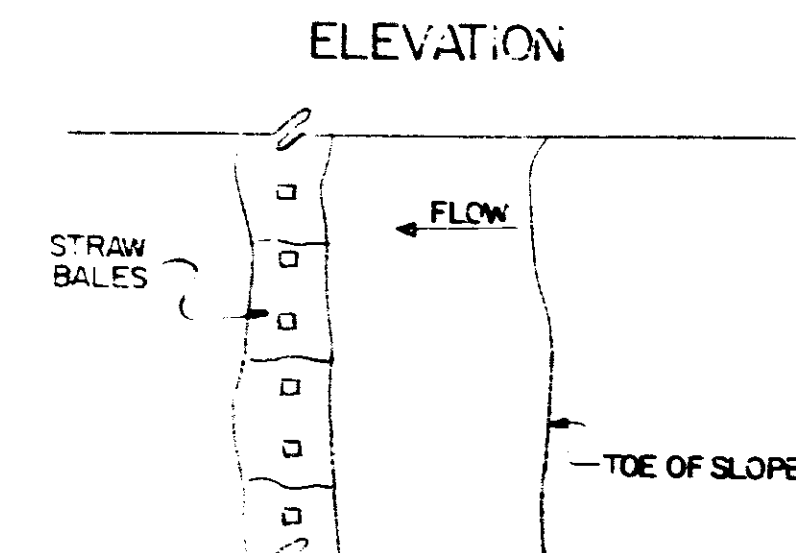
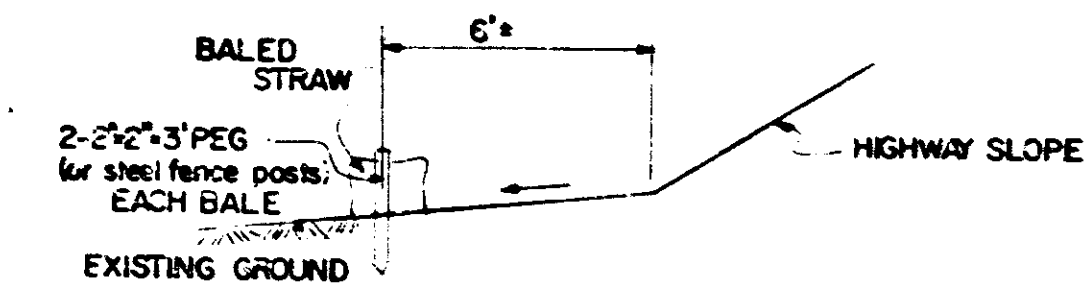


METHOD D

TABLE OF QUANTITIES						
LOCATIONS	LEFT OR RIGHT	METHOD				
		A	B	C	D	E
STATION TO STATION	FEET	BALES	LFT	LFT	EACH	BALES
485+63	41' LT	6				
487+00	34' RT	4				
487+65	43' LT	6				
488+12	86' LT	4				
488+40	34' RT	4				
	TOTAL	24				



PLAN
METHOD C



PLAN
METHOD E

PAY ITEMS
 METHOD A "STRAW BALES IN PLACE" 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 IN PLACE" EACH

DESIGNED: C.K.D.
 DRAWN: J.B. 5-79 C.K.D.
 TRACED: C.K.D.

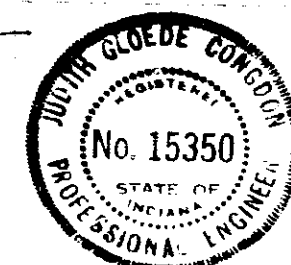
Rev 6-6-79 Method D and E

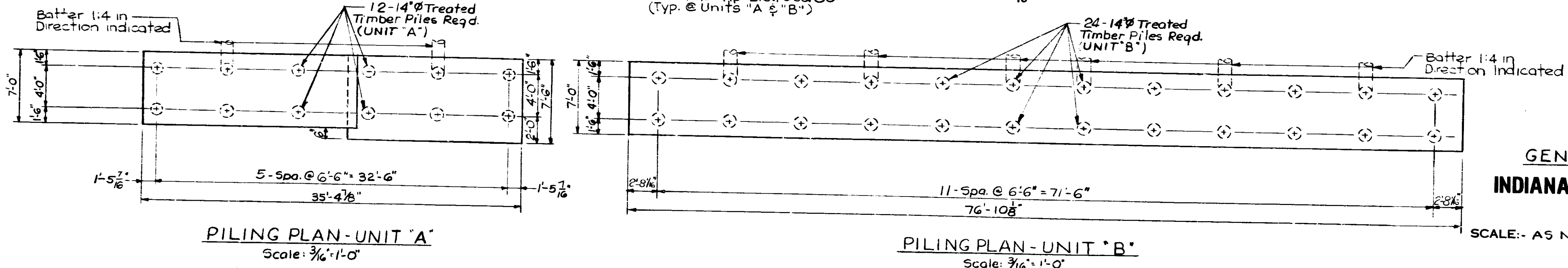
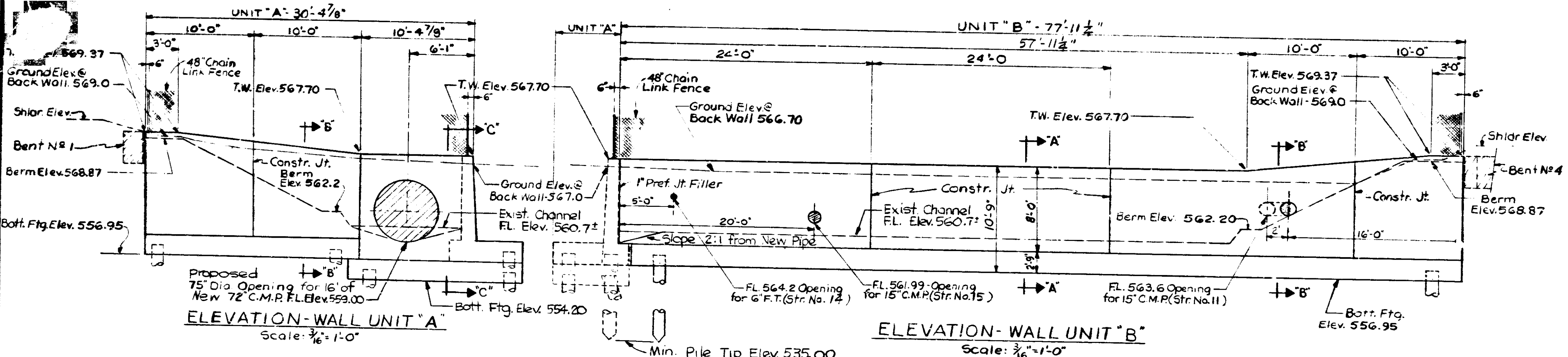
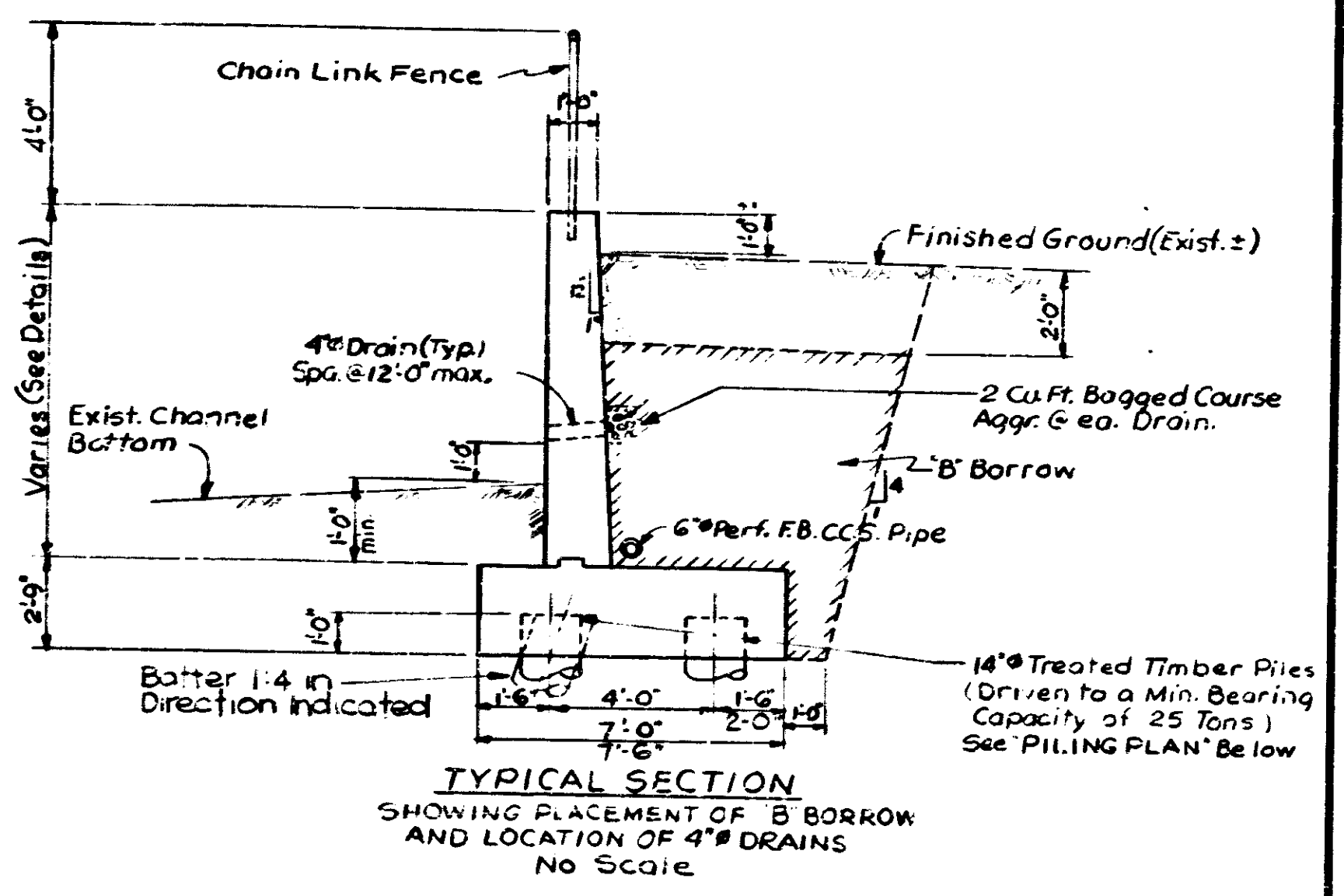
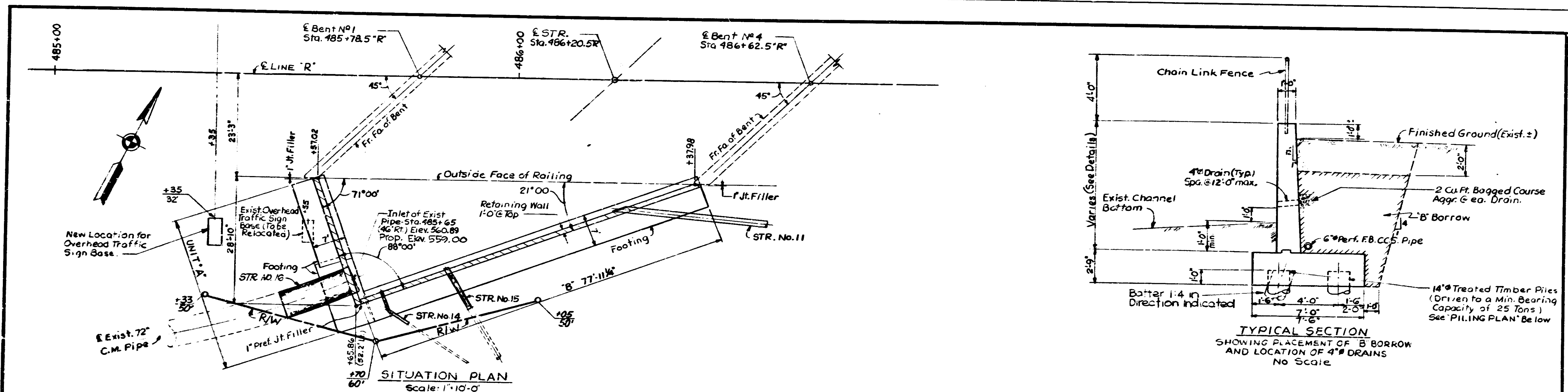
EROSION CONTROL
 INDIANA STATE HIGHWAY COMMISSION

SCALE

DATE JULY 15, 1983

PROJECT M-X255(3)
 CONTRACT NO. B-15132
 BRIDGE FILE 50-36-6788





NOTES

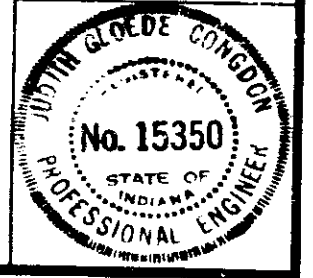
- Depth of Footing to be extended if found necessary. See Art. 204.11c of the specifications.
- Reinforcing steel covering shall be 3 inches in footing except bottom steel which shall be 4 inches and 2 inches in all other parts unless noted.
- All concrete to be Class 'A'.
- Continuous concrete pours shall be required between construction joints as shown on detail plans.
- For Reinforcing Bar Notes and bar bending details, see Br. Std. C1.
- Chamfer exposed edges 1/4 inch unless noted.
- Waterproof back of wall in accordance with Art. 702.2 of the specifications.
- 4" Drains to be placed as shown on plans. Cost of drains to be included in cost of concrete. Drains will not project beyond the face of wall.

For Pay items covering these structures, see Sheet No. 1 & 15.

**RETAINING WALL
GENERAL ARRANGEMENT PLAN
INDIANA DEPARTMENT OF HIGHWAYS**

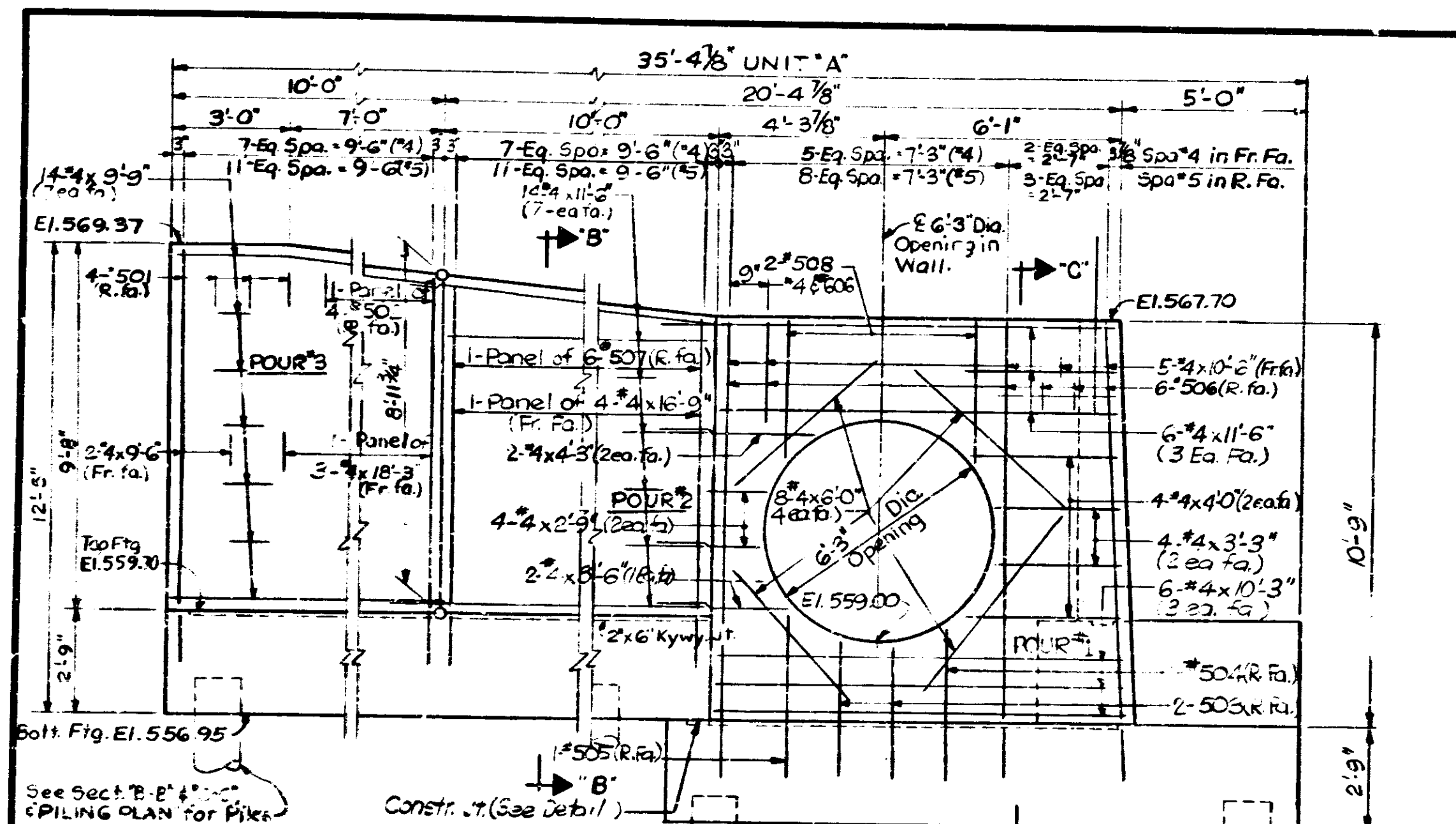
SCALE: AS NOTED DATE: JULY 15, 1988

DRAWING: OF SHEET: 5 OF 47
PROJECT: M-X-255(3)
CONTRACT NO. B-15132
BRIDGE FILE: 50-36-6788

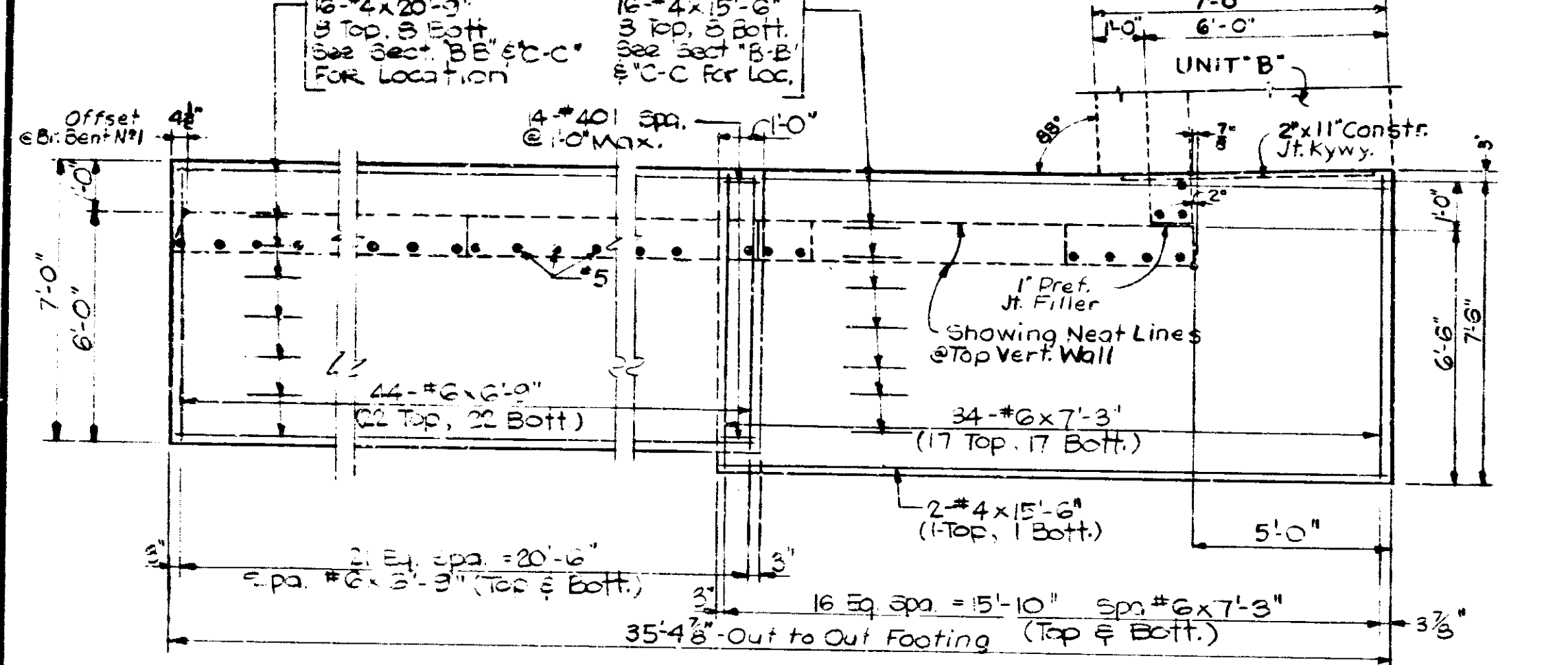


DESIGNED: H.Y.P. CWD: J.G.C.
DRAWN: D.E.B. CWD: H.Y.P.
TRACED: CWD:

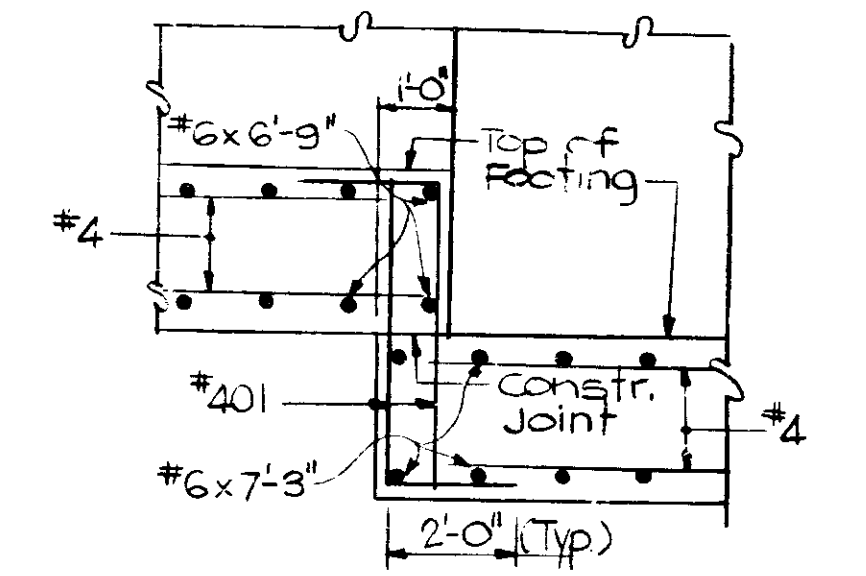
REV. 11-7-84 RIW Plotted on Situation Plan



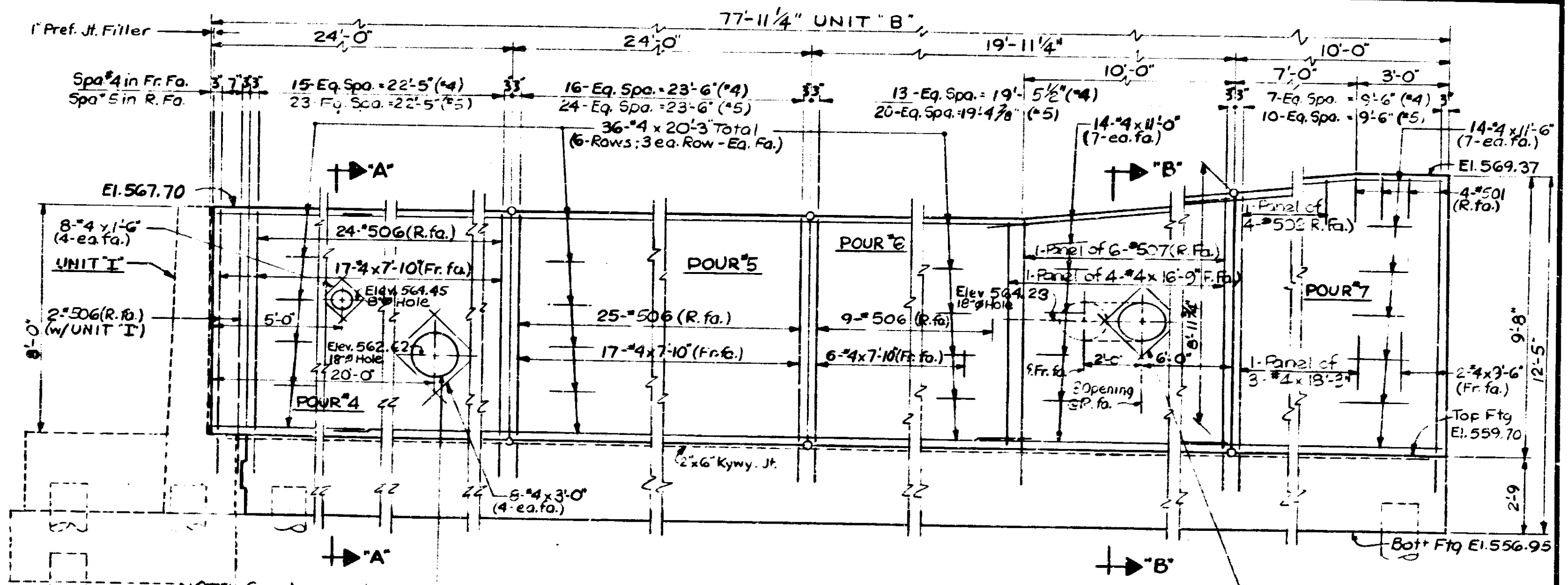
SOUTH ELEVATION-UNIT A
SHOWING CONCRETE DIMENSIONS & REINFORCING STEEL IN WALL
Scale: 3/8" = 1'-0"



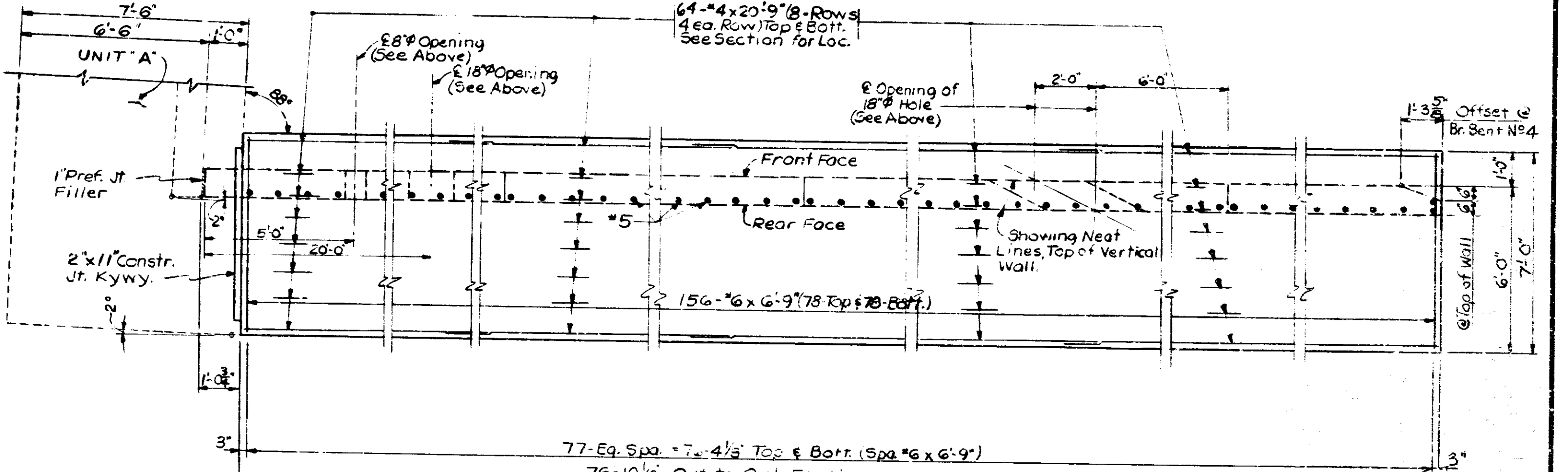
FOOTING PLAN-UNIT A
SHOWING CONCRETE DIMENSIONS & REINFORCING STEEL
Scale: 3/8" = 1'-0"



CHANGE IN FOOTING DETAIL
No scale



SOUTH ELEVATION-UNIT B
SHOWING CONCRETE DIMENSIONS & REINFORCING STEEL IN WALL
Scale: 3/8" = 1'-0"



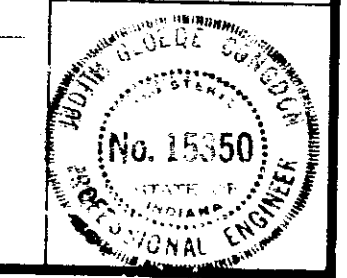
FOOTING PLAN-UNIT B
SHOWING CONCRETE DIMENSIONS & REINFORCING STEEL
Scale: 3/8" = 1'-0"

NOTES:
See Br. Std. C1, for Reinforcing Bar Notes
See Drwg. No. 5 for General Arrangement of Retaining Wall & PILING PLAN
See Drwg. No. 7 for Sections, Additional Details & Bill of Materials
See Br. Std. C3, for Constr. & Expansion Joint Details

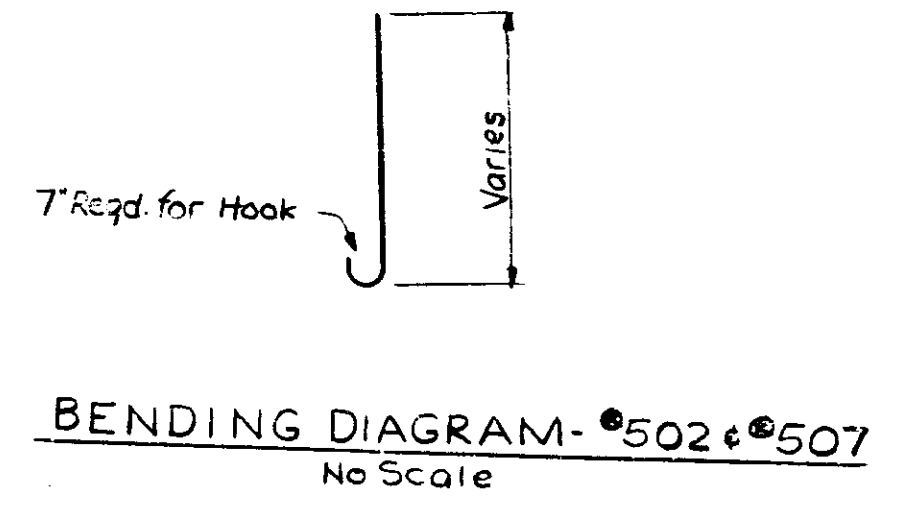
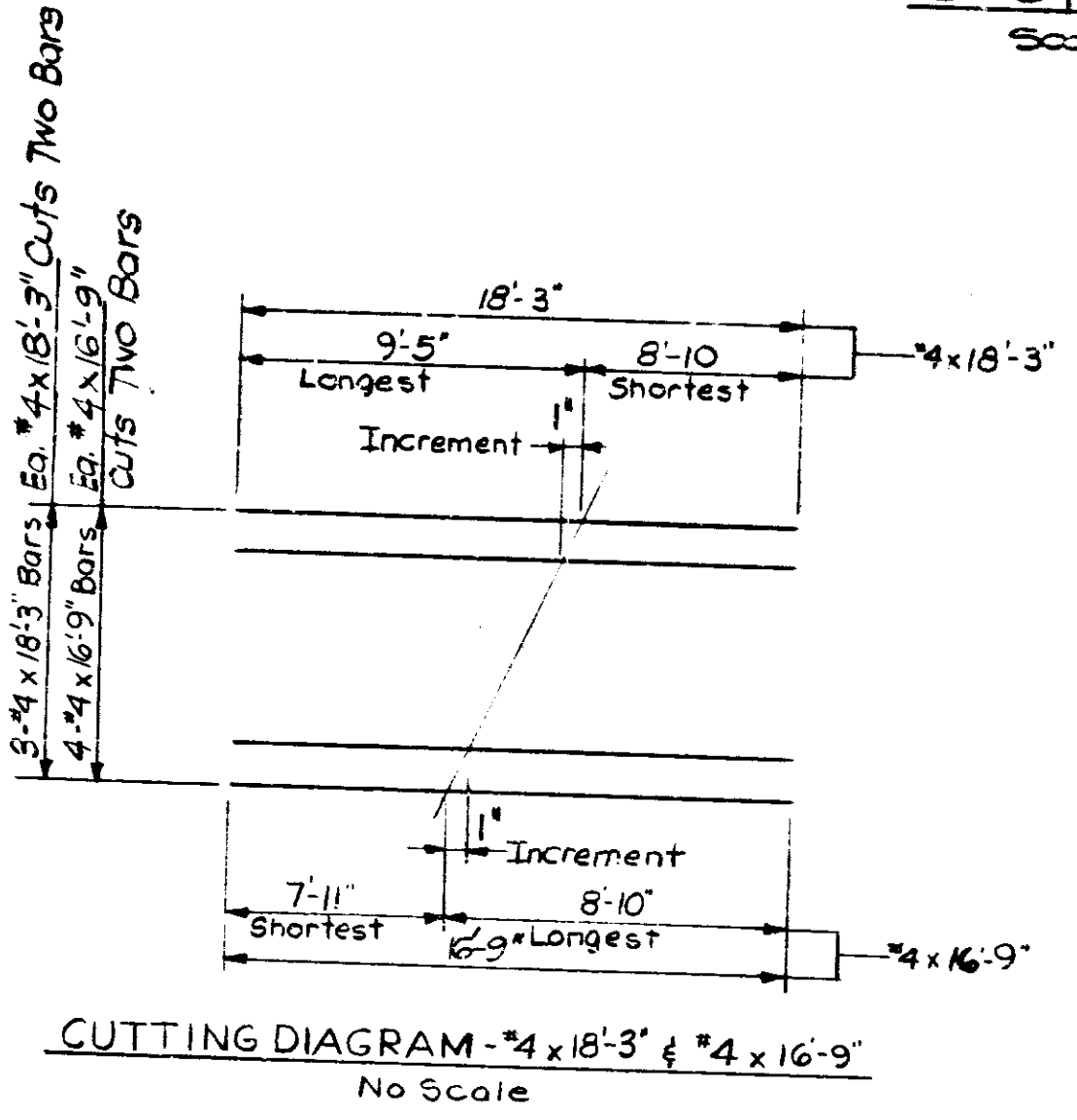
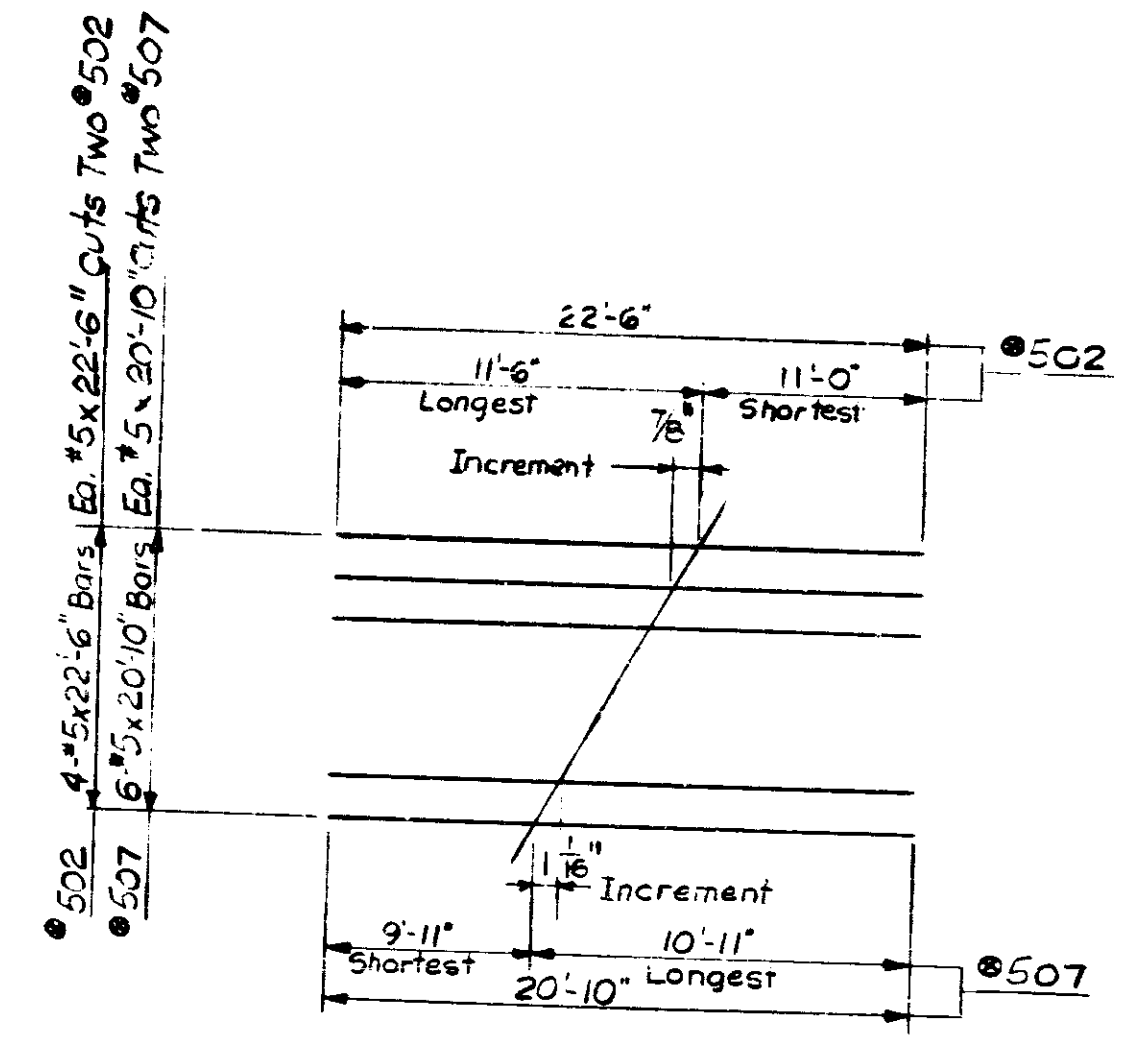
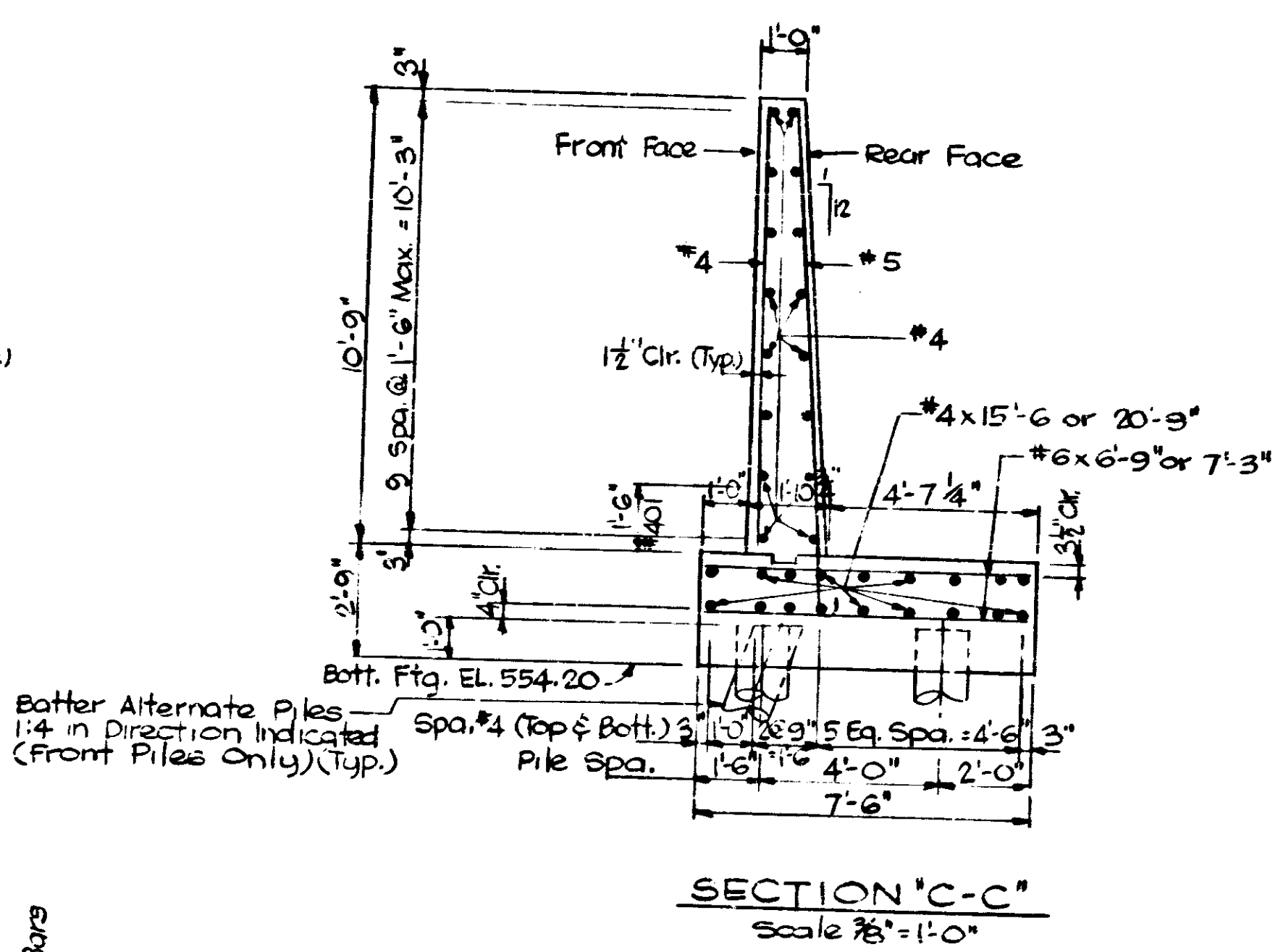
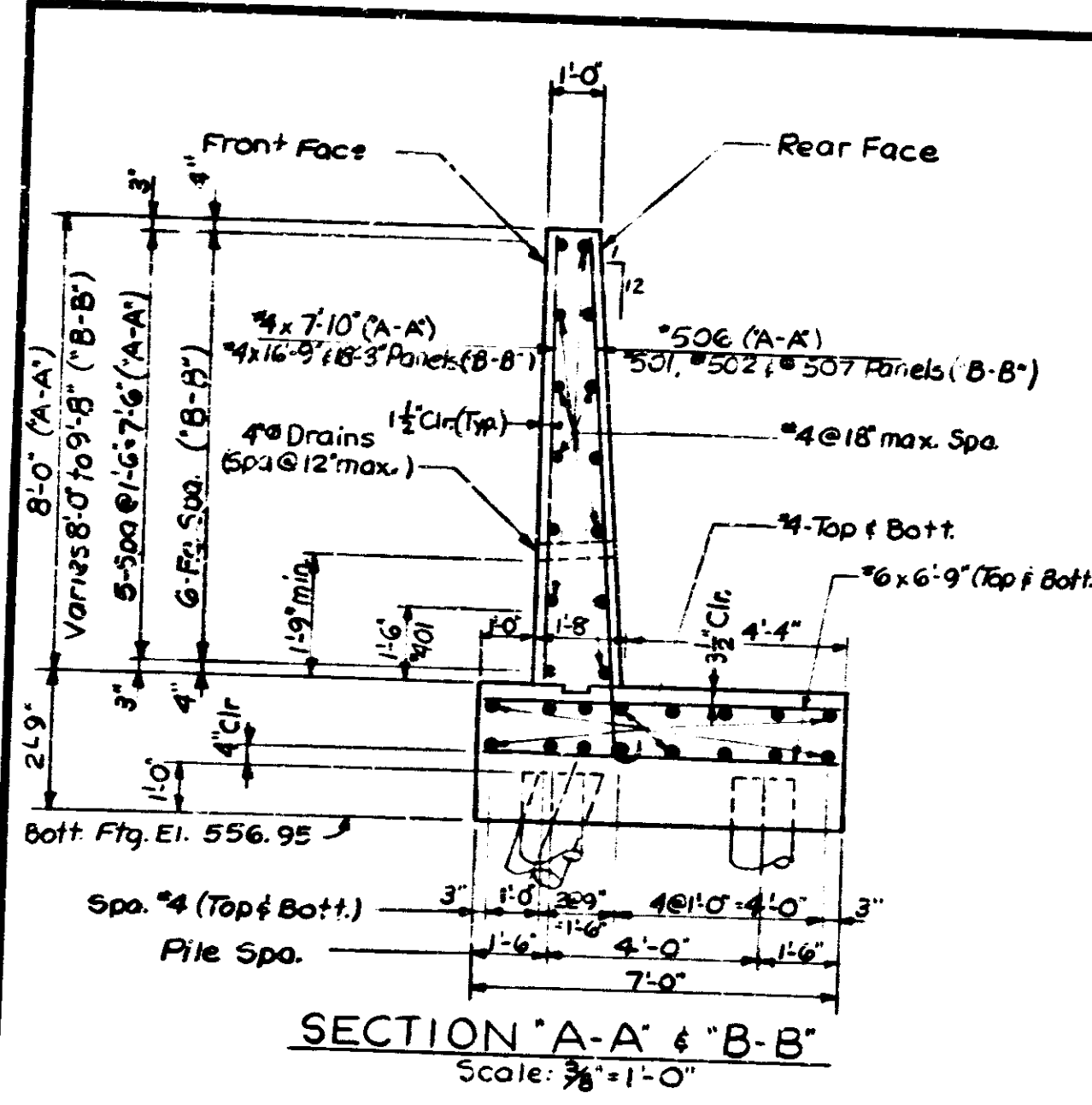
UNITS A & B
RETAINING WALL DETAILS
INDIANA DEPARTMENT OF HIGHWAYS

SCALE: AS NOTED DATE: JULY 15, 1933

DRAWING: OF SHEET: 6 OF 47
PROJECT: M-X-255(3)
CONTRACT NO. B-15132
BRIDGE FILE: 50-36-6788



DESIGNED BY: J.P. CKD, J.G.C.
DRAWN BY: B. CKD, H.Y.P.
TRACED BY: CKD



Mark & Size	"A"	Length
#501	11'-0"	11'-7"
#503	3'-6"	4'-7"
#504	4'-0"	4'-7"
#505	4'-2"	4'-10"
#506	11'-0"	11'-7"

NOTES
See Br. Std. C1, for Reinforcing Bar Notes
See Br. Std. C3, for Construction & Expansion Joint Details
See Drwg. N-5 for General Arrangement of Retaining Wall & "PILING PLAN"
See Drwg. N-6 for Addition Information & Details

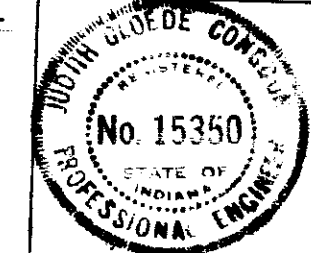
UNITS "A" & "B"
BILL OF MATERIALS

REINFORCING STEEL			
Mark & Size	No. of Bars	Length	Weight (Lbs)
#6	34	7'-3"	
#6	200	6'-9"	
TOTAL #6			2898
#501	1	11'-7"	
#502	1	22'-5"	
#503	1	4'-7"	
#504	1	4'-7"	
#505	1	4'-10"	
#506	66	11'-7"	
#507	12	20'-9"	
#508	2	7'-9"	
TOTAL #5			1367
#401	14	7'-3"	
#402	14	7'-3"	
#403	14	7'-3"	
#404	14	7'-3"	
#405	14	7'-3"	
#406	14	7'-3"	
#407	14	7'-3"	
#408	14	7'-3"	
#409	14	7'-3"	
#410	14	7'-3"	
#411	14	7'-3"	
#412	14	7'-3"	
#413	14	7'-3"	
#414	14	7'-3"	
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#423	14	7'-3"	
#424	14	7'-3"	
#425	14	7'-3"	
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#491	14	7'-3"	
#492	14	7'-3"	
#493	14	7'-3"	
#494	14	7'-3"	
#495	14	7'-3"	
#496	14	7'-3"	
#497	14	7'-3"	
#498	14	7'-3"	
#499	14	7'-3"	
#500	14	7'-3"	
Total Reinforcing Steel			2898
CONCRETE			6653
Class "A" Concrete above Footing			
Pour #1			4.7 Cys.
Pour #2			4.7 Cys.
Pour #3			4.9 Cys.
Pour #4			9.9 Cys.
Pour #5			6.2 Cys.
Pour #6			6.2 Cys.
Total Class "A" Concrete above Footing			48.9 Cys.
Class "A" Concrete in Footing			
Unit "A"			26.7 Cys.
Unit "B"			54.8 Cys.
Total Class "A" Concrete			125.4 Cys.
MISCELLANEOUS			
"B" Borrow			176 Cys.
Chain Link Fence			107 Bl.F.
14" Treated Timber			
Piles 3/4" x 4 1/2" x 22' Long			1512 LF

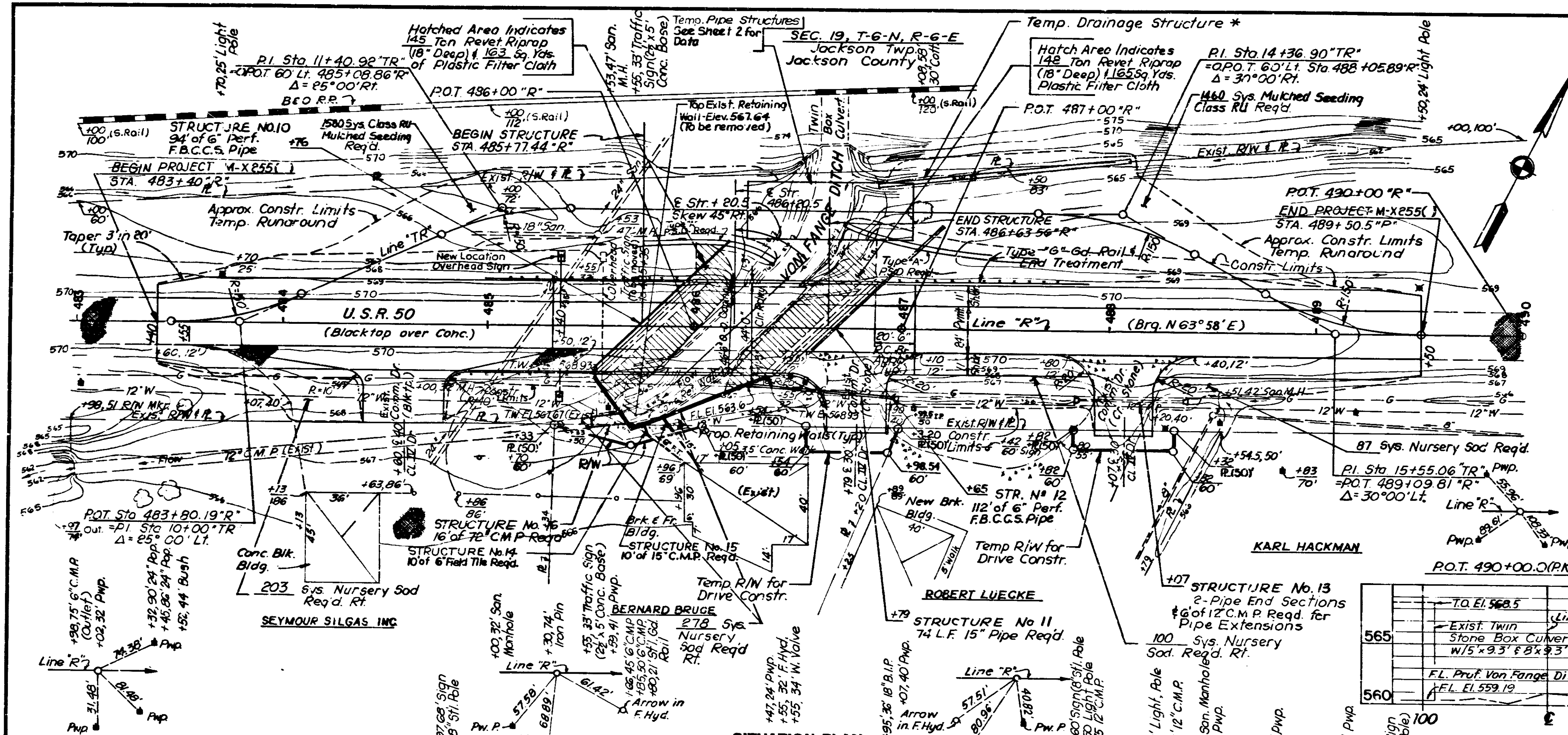
UNITS "A" & "B"
RETAINING WALL DETAILS
& BILL OF MATERIALS
INDIANA DEPARTMENT OF HIGHWAYS

SCALE: AS NOTED DATE: JULY 15, 1983

DRAWING: OF SHEET: 7 OF 47
PROJECT: M-X-255(3)
CONTRACT NO. B-15132
BRIDGE FILE: 50-36-6788



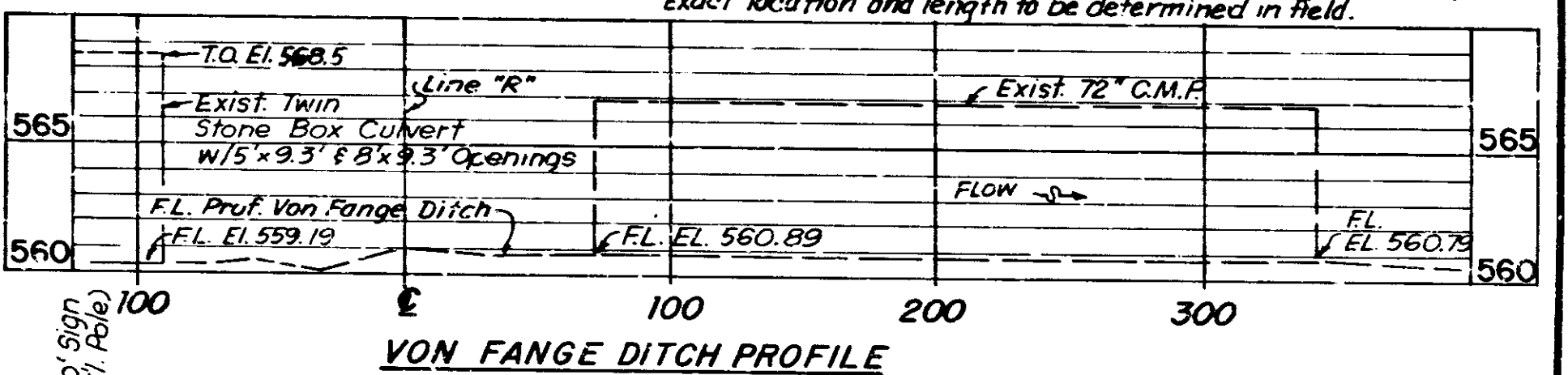
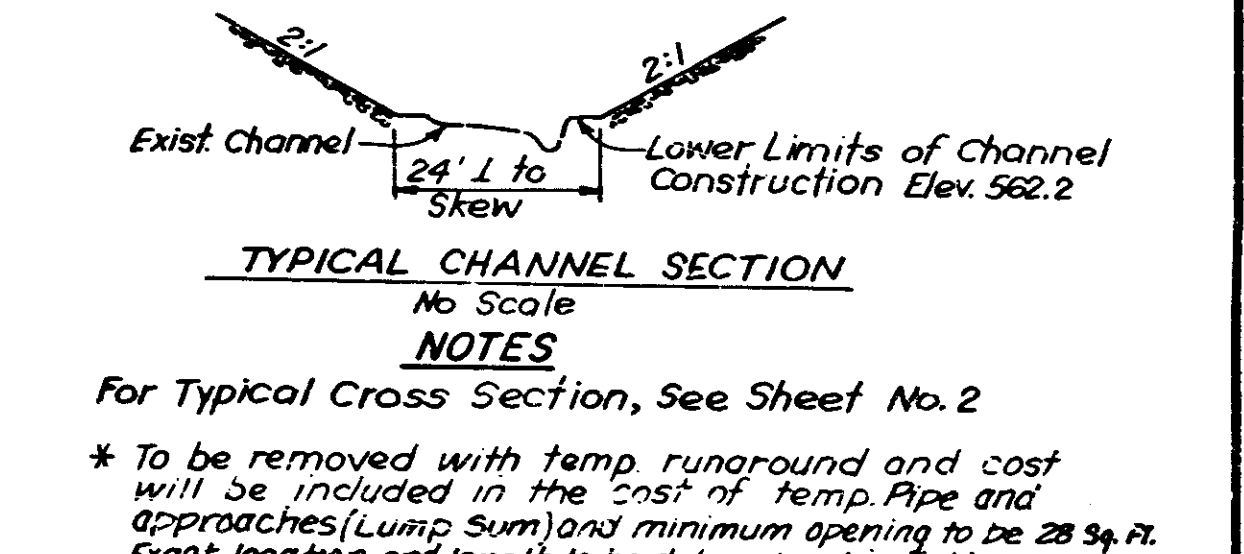
Rev. 11-9-84 Piles in Bill of Matls



PRESENT STRUCTURE
 R.C. Girder 1 @ 28 Sk. 45° R with 24' 0" C.I.
 Rwy. width widened to 39' 8" with P.C. Bs.

UTILITY OWNERS
 Public Service Indiana
 1000 East Main
 Plainfield, Indiana 46168
 Continental Telephone System
 309 North Chestnut Street
 Seymour, Indiana 47274
 Indiana Gas Company
 1630 W. Meridian Street
 Indianapolis, Indiana 46202
 Seymour Water Co.
 114 S. Chestnut St. Seymour, Ind.
 Sanitary Sewer Department
 City Hall, 220 N. Chestnut
 Seymour, Indiana 47274

PAVED TEMPORARY RUNAROUND REQUIRED
 See Sheet No. 2 for Typ. Sect.
 See sheet No. 8 for Profile Grade
 See Rd. Std. M1, for additional details
 Clear Rwy. width to be 28 ft. if
 Temp. Structure is used.



DESIGN FLOOD DATA

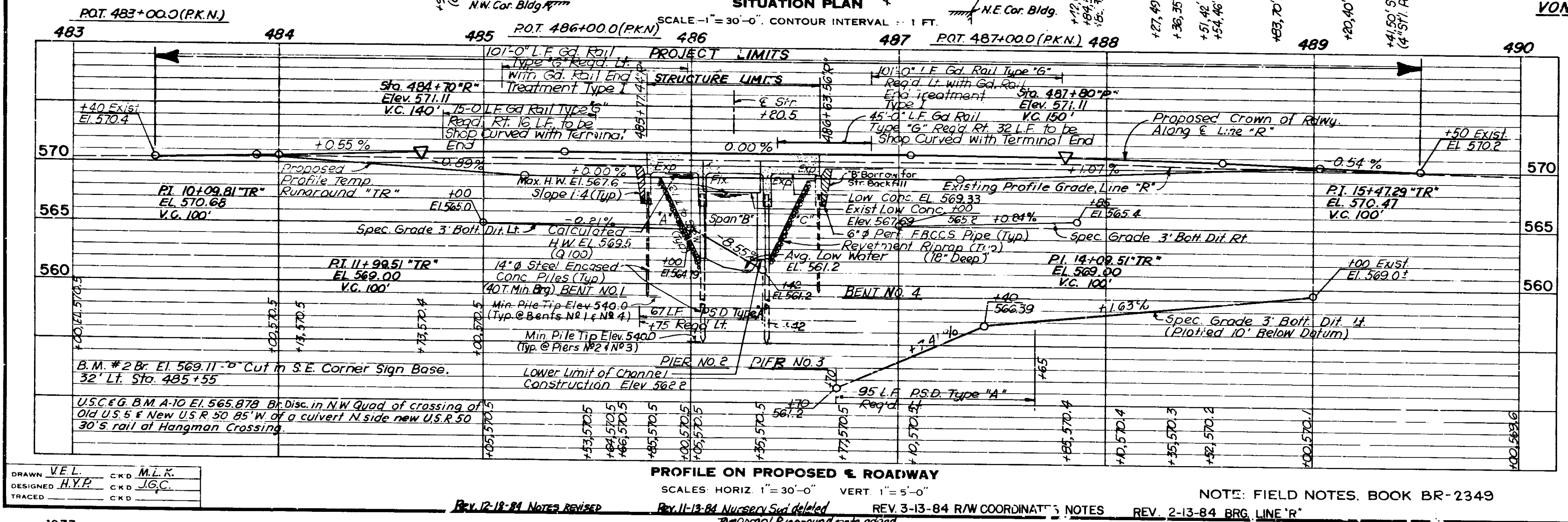
DRAINAGE AREA	2.3 Sq. Mi.
MAGNITUDE	1700 CFS
VELOCITY	6.0 Ft./Sec
FREQUENCY	100 Yr. Storm
AREA REQ'D. BELOW EL. 569.5	280 SQ. FT.
AREA PROVIDED	312 SQ. FT.
FREE BOARD	0 FT.

LAYOUT
CONTINUOUS REINFORCED CONCRETE SLAB BRIDGE
 3-SPAN 26'-3", 31'-6", 26'-3" SKEW 45° 00' RT
 ONE 44'-0" ROADWAY, 1'-3" COPINGS 46'-6" O-O COPINGS
 OVER VON FANGE DITCH ON U.S. 50

INDIANA DEPARTMENT OF HIGHWAYS
 JACKSON COUNTY

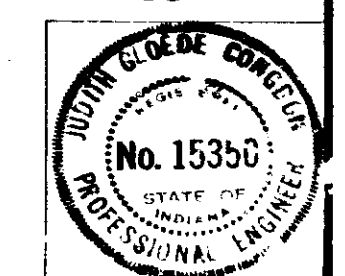
SCALE: AS NOTED DATE: JULY 15, 1983

DRAWING: C1 OF C5 SHEET: 3 OF 47
 PROJECT: M X 255(3) STATION: 486+20.5
 BRIDGE CONTRACT NO. 1
 BRIDGE FILE: 50-5-6788



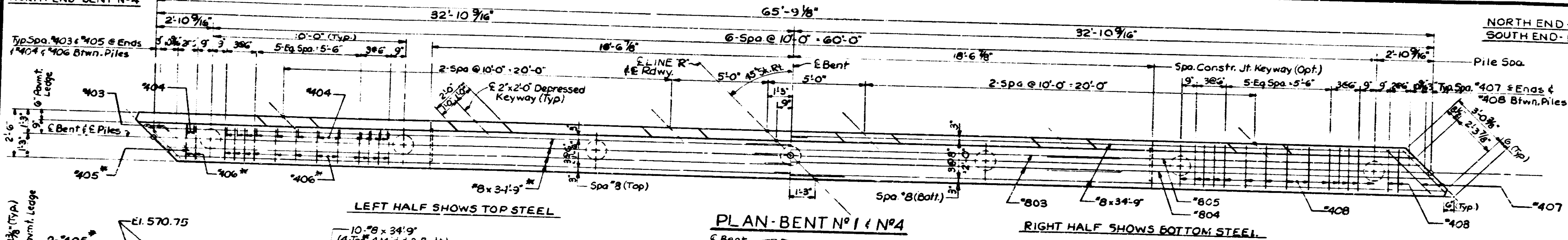
DRAWN: V.E.L. C.K.D. M.L.R.
 DESIGNED: H.Y.H. C.K.D. J.G.C.
 TRACED: C.K.D.

REV. 12-18-84 NOTES REVISED
 REV. 11-13-84 Nursery Sod deleted
 REV. 3-13-84 R/W COORDINAT'S NOTES
 REV. 2-13-84 BRG. LINE "R"

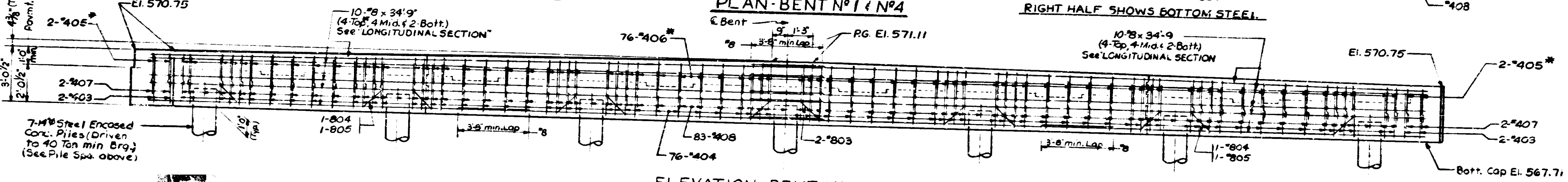


SOUTH END - BENT N^o 1
NORTH END - BENT N^o 4

NORTH END - BENT N^o 1
SOUTH END - BENT N^o 4



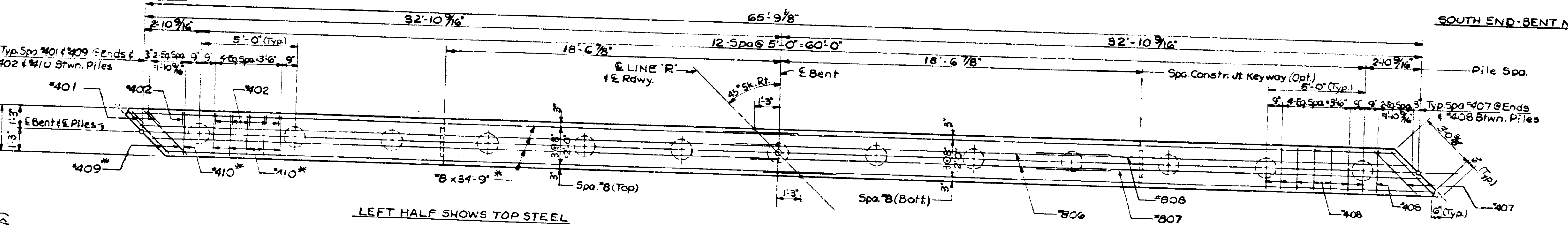
PLAN - BENT N^o 1 & N^o 4



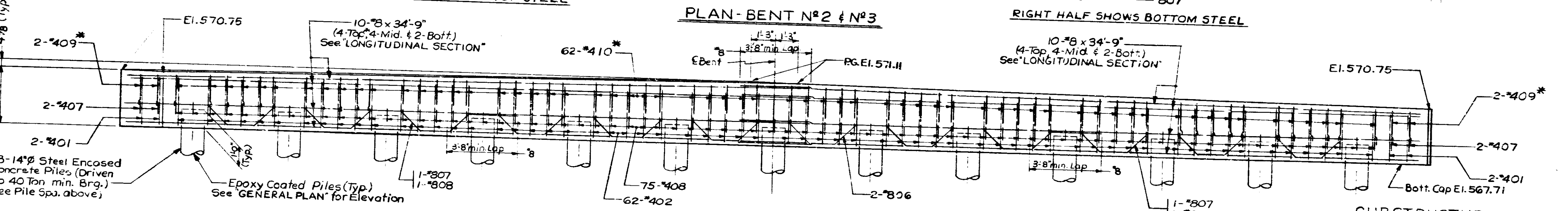
ELEVATION - BENT N^o 1 & N^o 4
SHOWING REINFORCING STEEL

NORTH END - BENT N^o 2

SOUTH END - BENT N^o 2 & N^o 3



PLAN - BENT N^o 2 & N^o 3



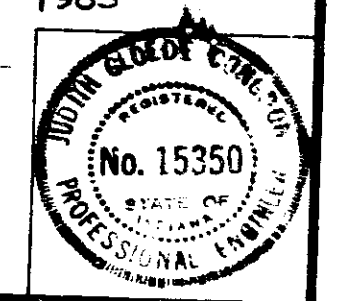
ELEVATION - BENT N^o 2 & N^o 3
SHOWING REINFORCING STEEL

SUBSTRUCTURE DETAILS
INDIANA DEPARTMENT OF HIGHWAYS

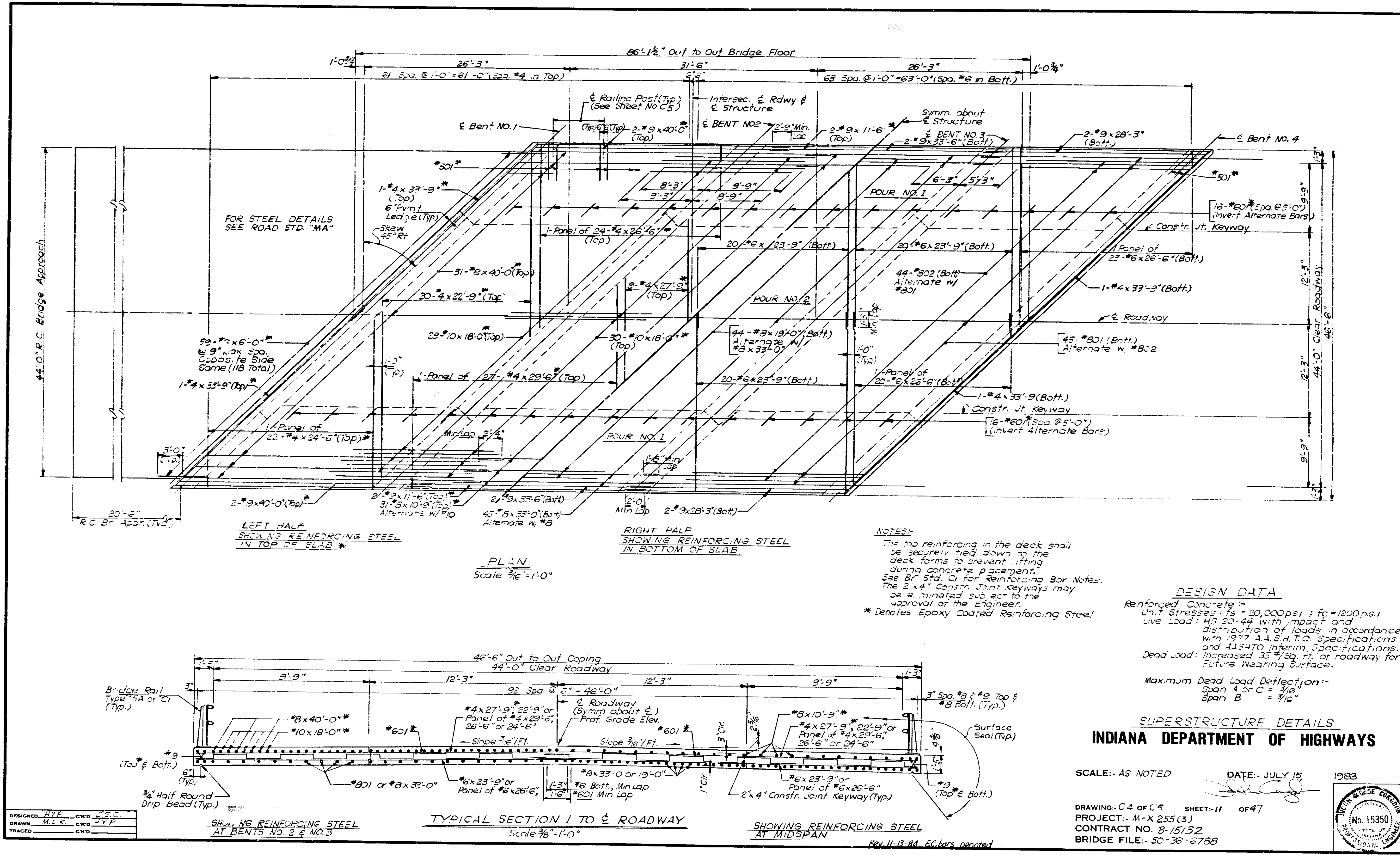
NOTES:
For Reinforcing Bar Notes, see Br. Std. C1
For Section of Bents, see Drwg. C5
For Bill of Materials & Details, see Drwg. C5
* Notes Epoxy Coated Reinf. Steel

SCALE: 3/8" = 1'-0" DATE: JULY 15, 1983

DRAWING: C3 OF C5 SHEET: 10 OF 47
PROJECT: M-X 255(3)
CONTRACT NO. B-15132
BRIDGE FILE: 50-36-6788



DESIGNED: H.Y.P. C.K.D. J.G.C.
DRAWN: D.E.D. C.K.D. H.Y.P.
TRACED: C.K.D.



FOR STEEL DETAILS
SEE ROAD STD. "MA"

LEFT HALF
SHOWING REINFORCING STEEL
IN TOP OF SLAB

RIGHT HALF
SHOWING REINFORCING STEEL
IN BOTTOM OF SLAB

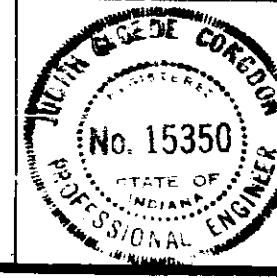
PLAN
Scale 3/16" = 1'-0"

NOTES:
The top reinforcing in the deck shall be securely tied down to the deck forms to prevent lifting during concrete placement. See Br. Std. C1 for Reinforcing Bar Notes. The 2"x4" Constr. Joint Keyways may be a minuted subject to the approval of the Engineer.
* Denotes Epoxy Coated Reinforcing Steel

DESIGN DATA
Reinforced Concrete:-
Unit Stresses: $f_s = 20,000 \text{ psi}$; $f_c = 1200 \text{ psi}$.
Live Load: HS 20-44 with impact and distribution of loads in accordance with 1977 I.A.S.H.T.O. Specifications and 411 S.H.T.O. Interim Specifications.
Dead Load: Increased 35% for roadway for future wearing surface.
Maximum Dead Load Deflection:-
Span A or C = 3/16"
Span B = 3/16"

SUPERSTRUCTURE DETAILS
INDIANA DEPARTMENT OF HIGHWAYS

SCALE:- AS NOTED
DATE:- JULY 15, 1988
DRAWING:- C4 OF C5 SHEET:- 11 OF 47
PROJECT:- M-X 255(3)
CONTRACT NO. B-15132
BRIDGE FILE:- 50-36-6788



DESIGNED: HYP CKD J.G.C.
DRAWN: M.L.K. CKD H.Y.F.
TRACED: CKD

SHOWING REINFORCING STEEL
AT BENTS NO. 2 & NO. 3

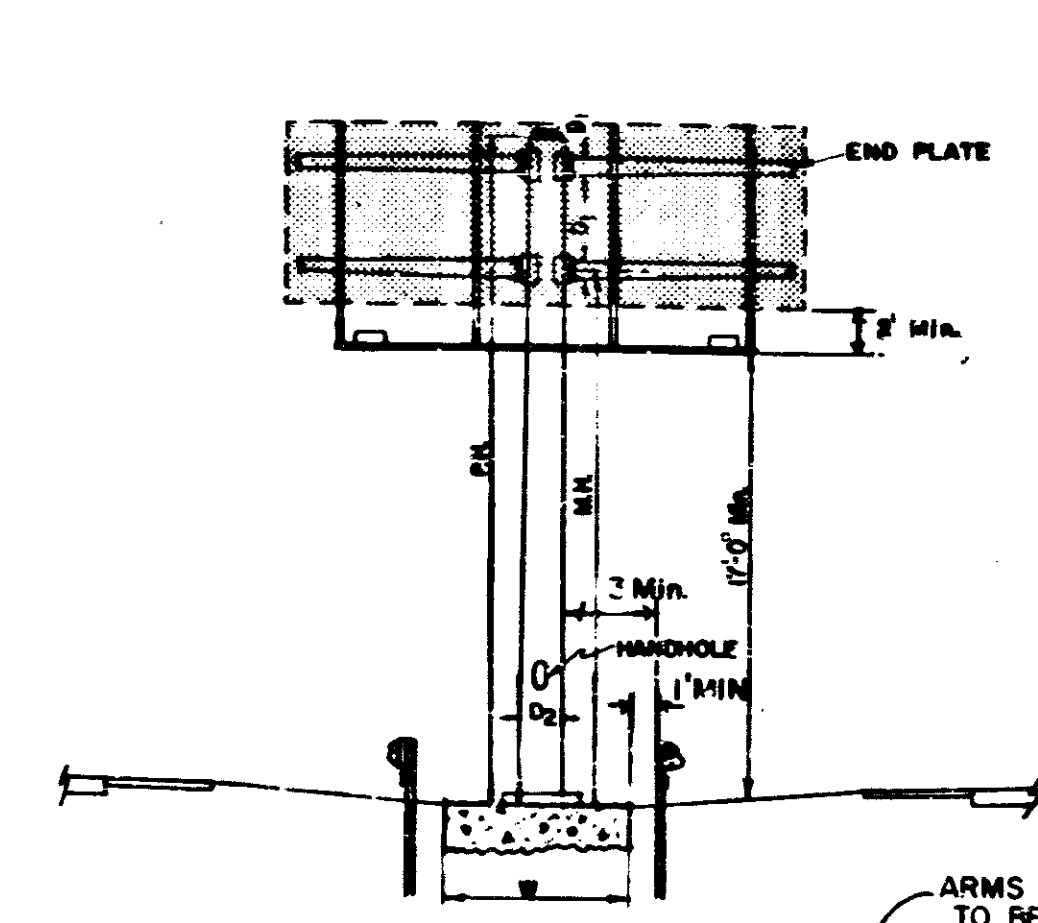
TYPICAL SECTION I TO ROADWAY
Scale 3/8" = 1'-0"

SHOWING REINFORCING STEEL
AT MIDSPAN

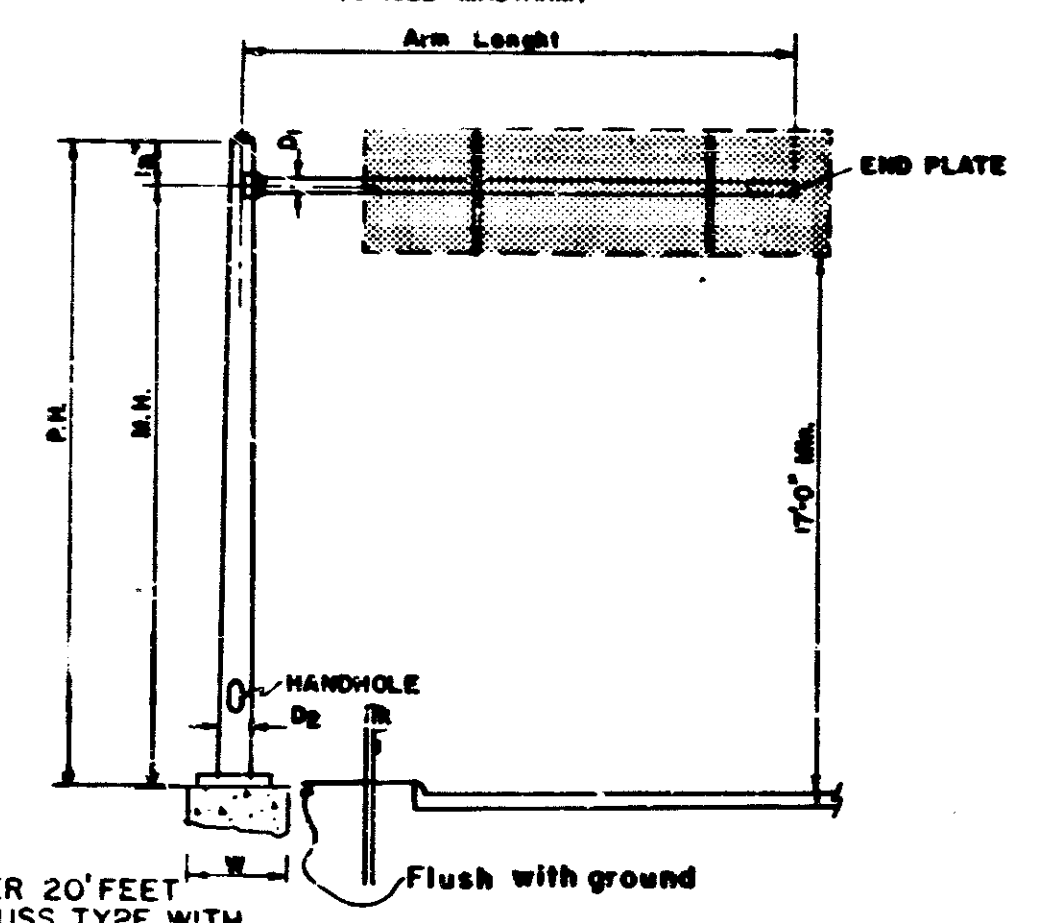
REV. 11-13-84 EG:bars deleted

FED. ROAD REG. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	M-X 2550	1983	13	47

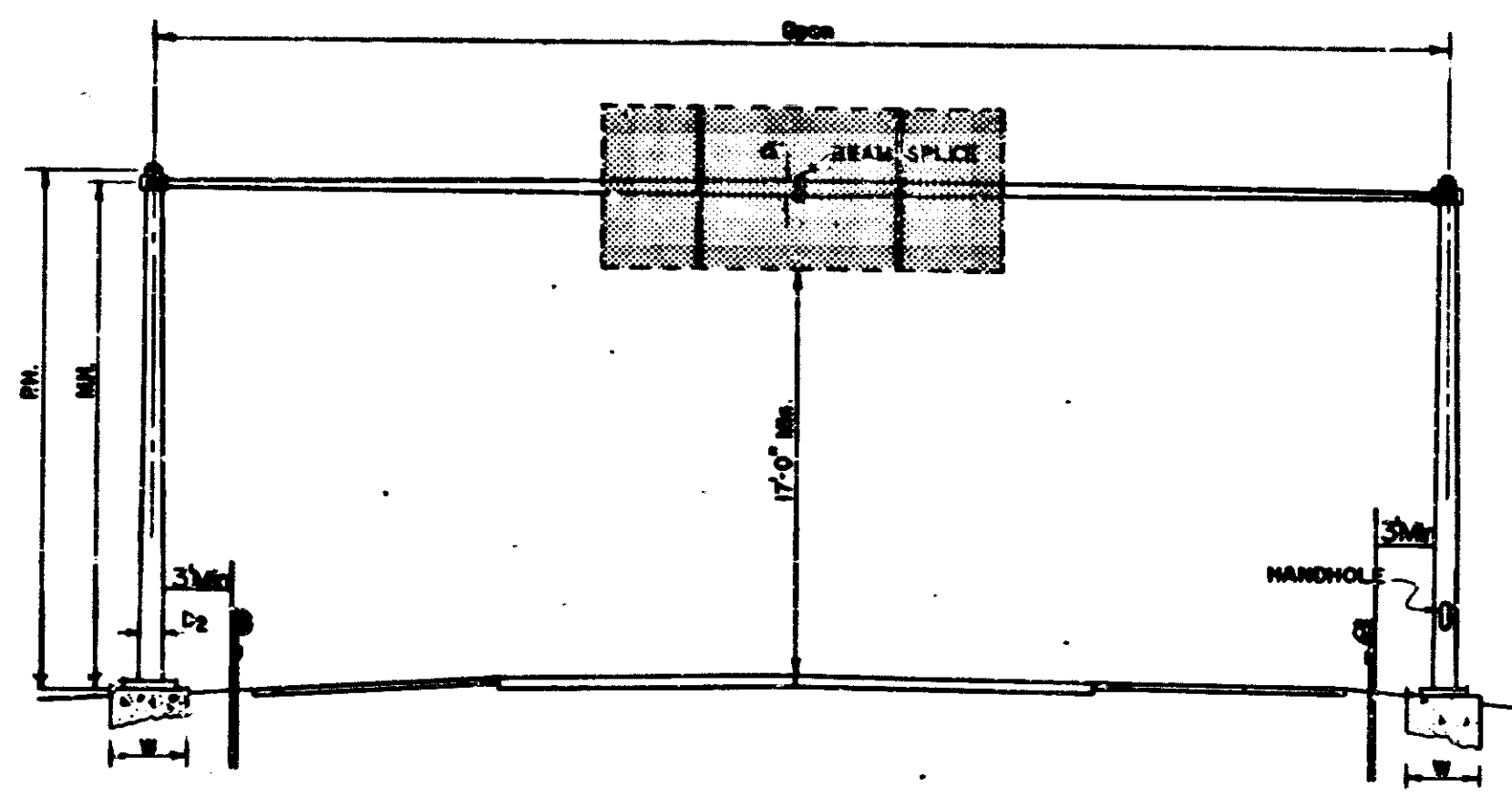
SINGLE POST-TWIN CANTILEVER
(DOUBLE MASTARM)



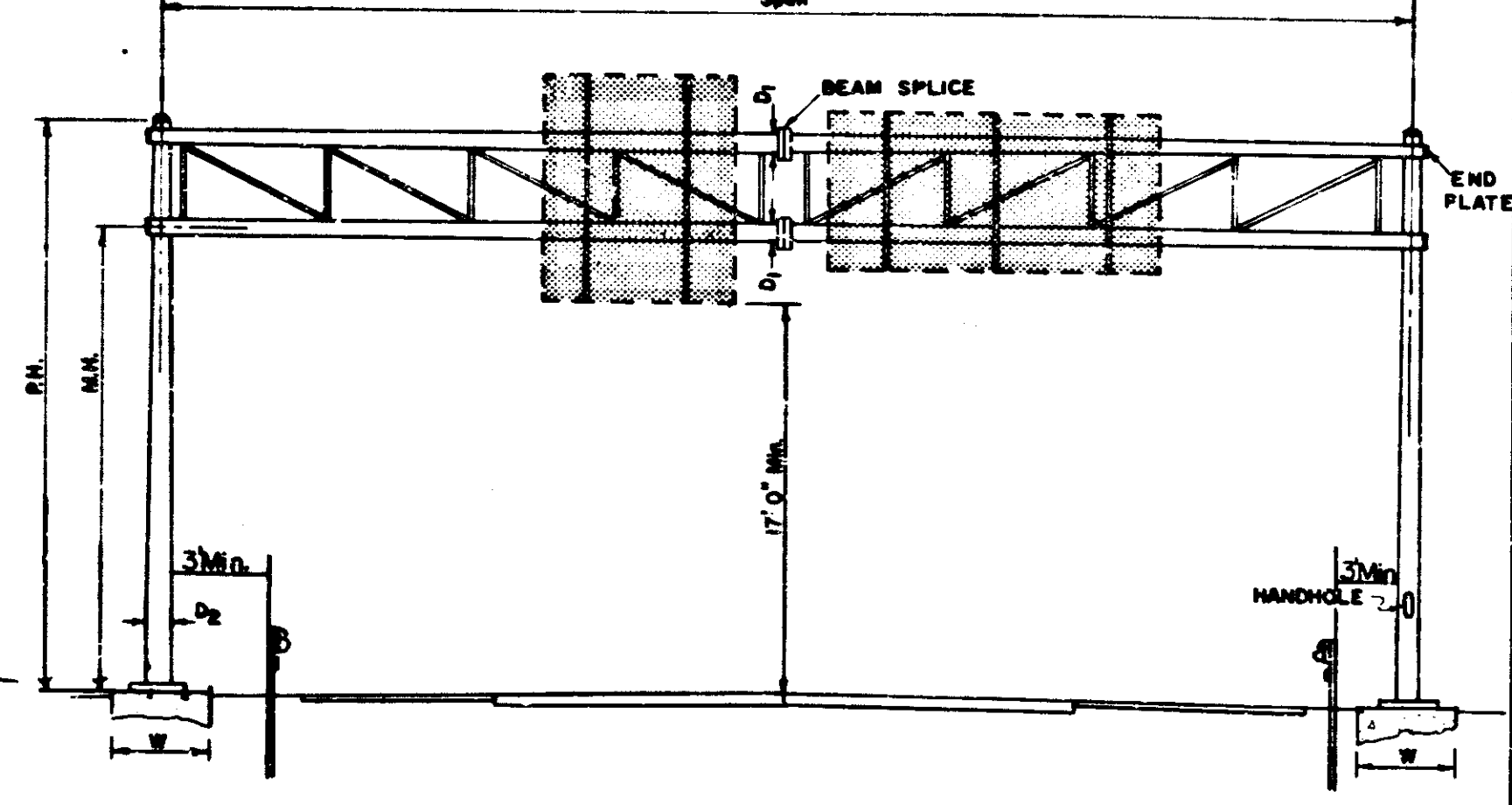
SINGLE POST CANTILEVER
(SINGLE MASTARM)



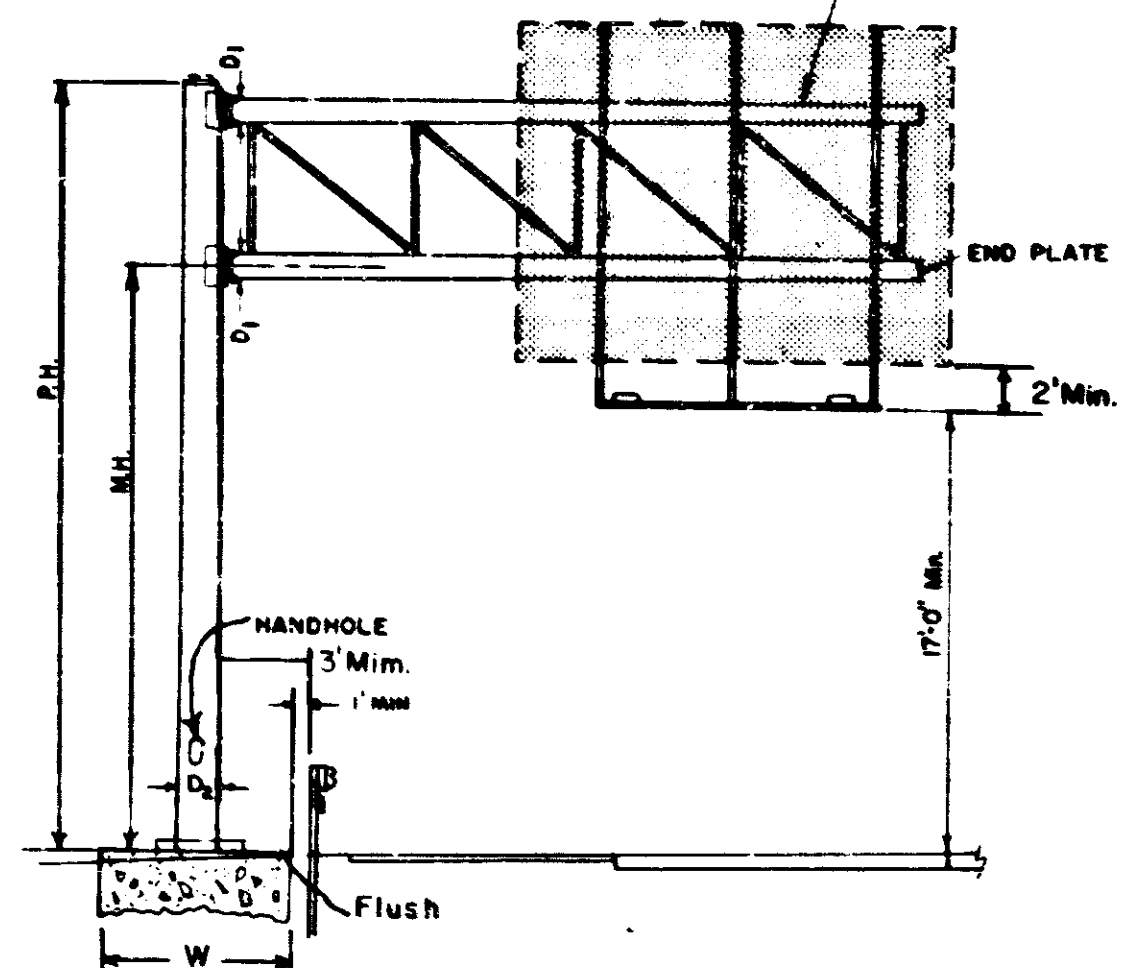
DOUBLE POSTS-SPAN TYPE
(SINGLE BEAM)



DOUBLE POSTS-SPAN TYPE
(DOUBLE BEAM)

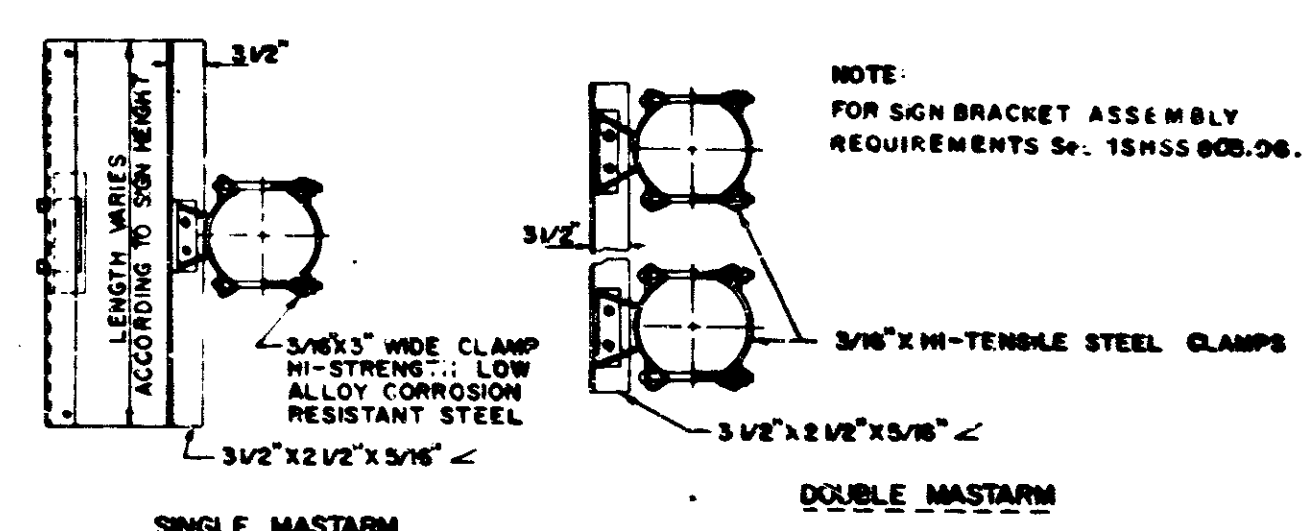


SINGLE POST - CANTILEVER
(DOUBLE MASTARM)



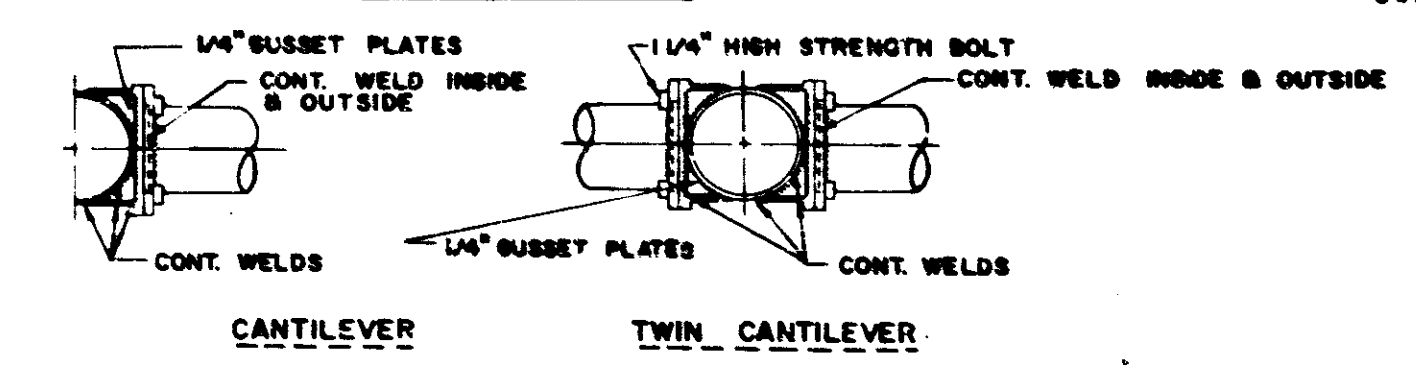
ARMS OVER 20 FEET TO BE TRUSS TYPE WITH 3"x3"x3/8" CENTER ANGLES.

SIGN BRACKET ASSEMBLY

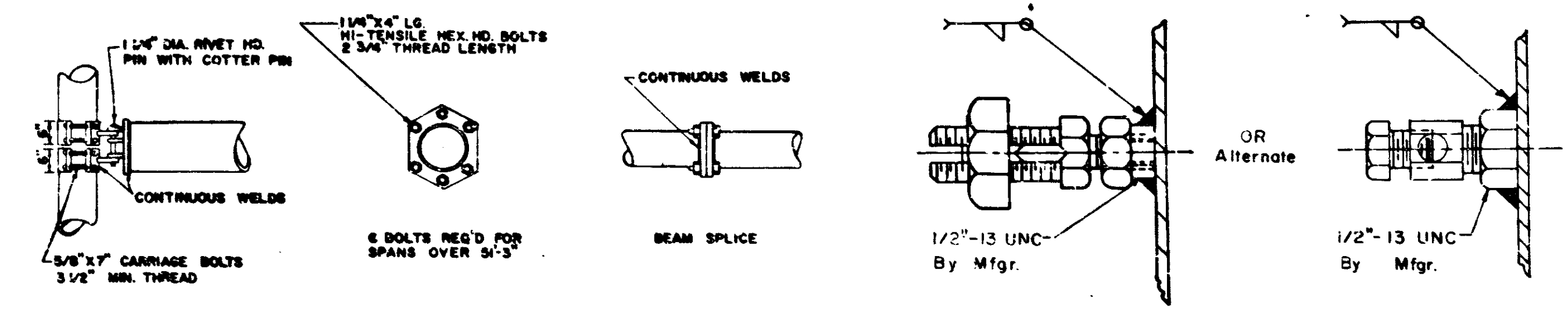


NOTE: FOR SIGN BRACKET ASSEMBLY REQUIREMENTS SEE: ISHS 908.08.

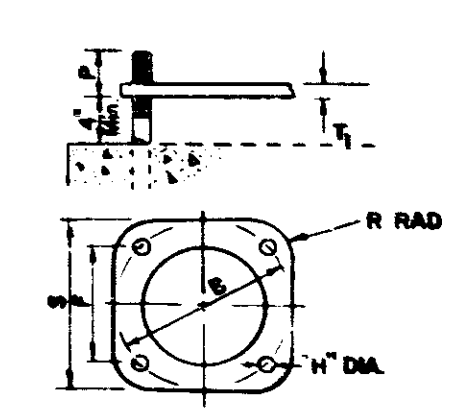
ARM ATTACHMENT



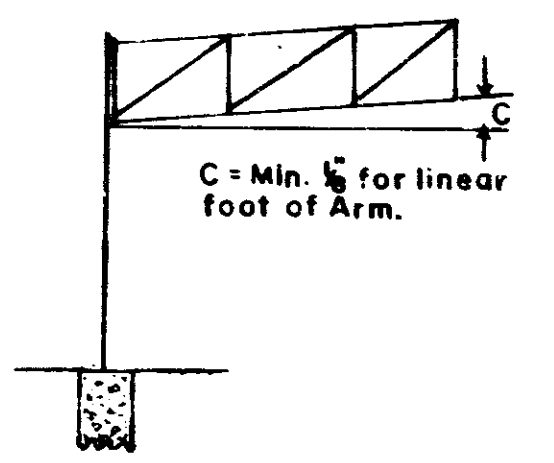
DOUBLE POSTS-SPAN ATTACHMENT



BASE PLATE



CAMBER FOR CANTILEVER



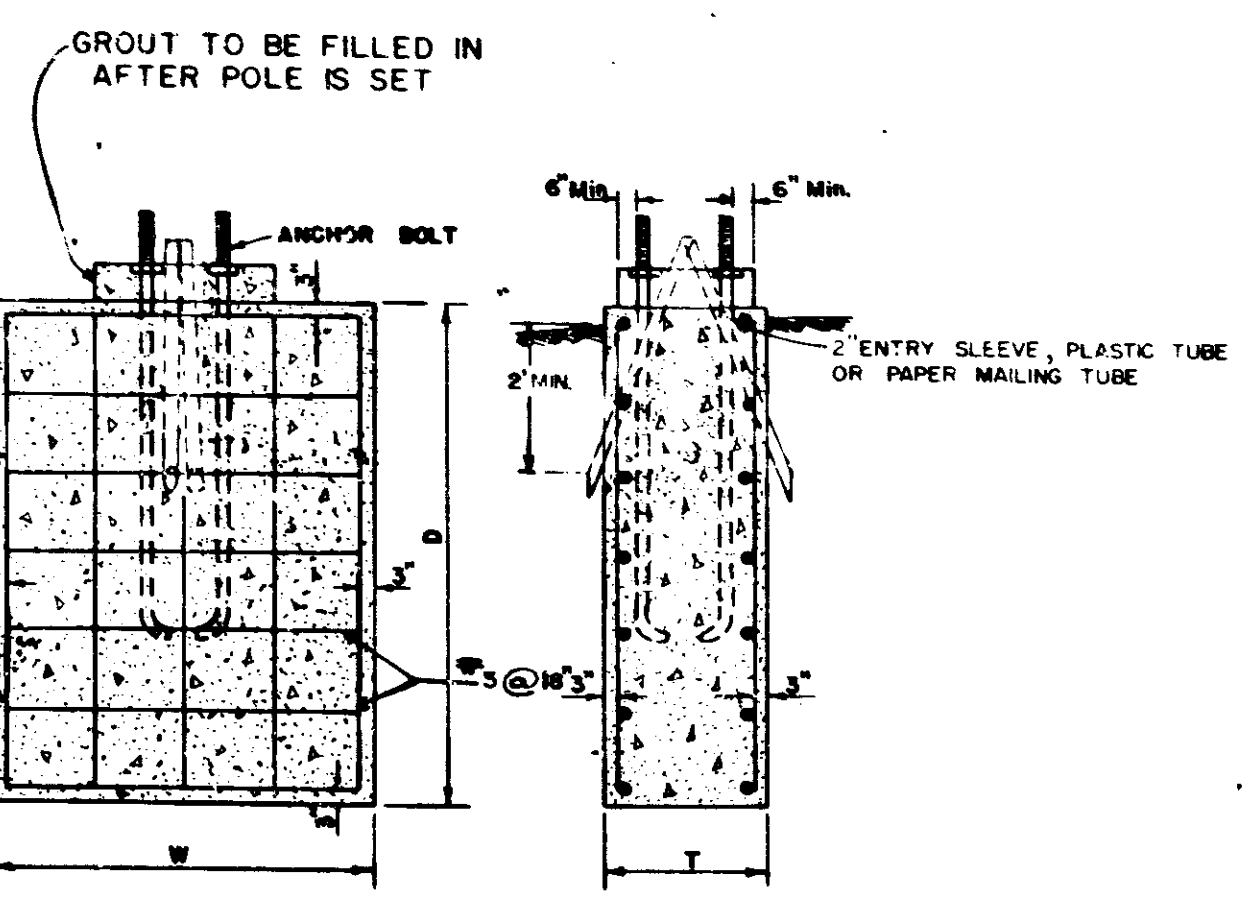
DETAIL OF GROUNDING CONNECTION

THE GROUNDING CONNECTION SHALL BE LOCATED 12" FROM THE BOTTOM OF THE SUPPORT EASILY ACCESSIBLE FROM THE STRUCTURE MANHOLE.

OXIDATION INHIBITOR SHALL BE LIBERALLY APPLIED TO ALL SURFACES THAT MATE WITH A DISSIMILAR MATERIAL.

Material furnished for Overhead Sign Structures shall be according with Indiana State Highway Standard Specification 1978 - 909.19

STRUCTURE NUMBER	SIGN AREA	ARM OR BEAM		UPRIGHT			BASE DIMENSION							ANCHOR BOLT DIA.	SPAN OR ARM LENGTH	FOOTING DATA					GUARD RAIL	
		D ₁	THICKNESS	D ₂	THICKNESS	M.H.	P.H.	B	F	H	P	R	S			T ₁	T	W	D	Concrete Cu. Yds.		Steel Lbs.
	EXISTING							20'	4 1/2'	2 1/2'	3 1/2'	4 1/2'	20'	2'	1 1/2" x 90'	EXIST.	3'	5'	9'	10'	274	As Per Bridge Plan Sheet No. 8



TRAFFIC SIGN DETAILS

Frank E. Donaldis
ENGINEER OF TRAFFIC DESIGN AND CONSTRUCTION



REVISIONS
0.5-77
2-1-77
3-11-77
8-26-77
8-28-77

SHEET
2

Contr. B-15132

DATED: 12-19-77

ITEM	CONCRETE					STRUCTURE					QUANTITIES																	
	CLASS C SUPERSTR.	CLASS A SUBSTR.	CLASS B ABOVE FTG.	CLASS B IN FTG.	CLASS A IN STRUCTURE	CONCRETE RAILING CLASS C	REINF. STEEL TOTAL	STRUCT. STEEL ***	EPoxy COATED REINF. STEEL	ANCHOR PLATES	UNTREATED TIMBER	TREATED TIMBER	FRY'ED ENCASED COB.	FRY'ED ENCASED COB.	FRY'ED ENCASED COB.	FRY'ED ENCASED COB.	FRY'ED ENCASED COB.	FRY'ED ENCASED COB.	FRY'ED ENCASED COB.	FRY'ED ENCASED COB.	FRY'ED ENCASED COB.	FRY'ED ENCASED COB.	FRY'ED ENCASED COB.	FRY'ED ENCASED COB.	FRY'ED ENCASED COB.	FRY'ED ENCASED COB.	FRY'ED ENCASED COB.	
SUPERSTRUCTURE	254.8						34349	27547																				
RETAINING WALLS UNIT A & B						15.4	6853							36	1512													
TOTALS	254.8				25.4		46222	27547						36	1512	40	1396	26	364					170.3				4208

STRUCT. NO.	LOCATION	SIZE	KIND	DESCRIPTION	LENGTH LIN. FT.	CONCR. CL. A IN STRG.		REINF. STEEL LBS.	END SEC.	REMARKS
						CU. YDS.	CU. YDS.			
10	Sta 485+76 (65° Skew)	6"	EP Cor. G.S. Pipe		94					Drains 6" Borrow @ End Bent #1
11	Sta 485+72 (31° R)	15"	Group A Pipe		74				1	Drains thru Retaining Wall
12	Sta 485+65 (60° Skew)	6"	EP Cor. G.S. Pipe		112					Drains 6" Borrow @ End Bent #2
13	Sta 485+07 (35° R)	15"	Pipe Extensions		6				2	* Ends of Exist 12" Pipe
14	Sta 485+75 (49 R)	6"	Field Tile		10					Drains thru Retaining Wall
15	Sta 485+85 (44 R)	15"	Group A Pipe		10					Drains thru Retaining Wall
16	Sta 485+65 (46 R)	72"	C.M. Pipe (6.109)		16					Connect to Existing 72" Pipe
TOTALS										Total of Reinforcing Steel Carried to "Structure Quantities"

LT. OR RT.	STATION TO STATION	TYPE	PAVED SIDE DITCH					SODDING SUMMARY					TOTAL SQ. YD.	
			PAY LENGTH	NO. OF LUGS	PAY LENGTH	CUT OFF WALLS	PAY LENGTH	TOTAL PAY LENGTH	FOR PSD	FOR DITCHES	SHOULDERS	OTHER		
	486+70 - 487+65	A	95	1	8	2	16	112	30					30
	486+75 - 486+42	A	67	1	8	2	16	91	20					20

LT/RT	STATION	DESCRIPTION	WIDTH FT.	RADI FT.	GRADE %	LENGTH FT.	DIST. FROM CUT	EXCAVATION (CY)		BITUM. SURFACE* #/SQ. YD.	TONS	BITUM. BINDER* #/SQ. YD.	TONS	BITUM. BASE #/SQ. YD.	TONS	COMP. AGG. BASE Depth (in) TONS
								CUT	FILL							
Rt	484+80	Class IV	40	200	-10	27	-	48	110	13.9	22	27.7			6	33.8
Rt	486+79	Class IV	30	200	-10	41	3	44	110	8.6	220	3.2			6	51.9
Rt	488+07	Class IV	30	200	-10	41	3	29	110	7.6	220	1.2			6	45.3
								30.1			55.1					131.6

* Bitum. Mixture for Approaches
85.2 Tons

DATE	ITEM
11-13-84	Reinf. Steel, Epoxy Coated Reinf. Steel, 14" Piles Req. & Epoxy Coated revised

NOVEMBER 1978
SUMMARIZED: MLK ckw HYP
TRACED: DEC ckw HYP

NOTES:
Weight of Spirals includes weight of 1/2 extra turns top and bottom.
Spacers and 1 1/2 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.

BRIDGE SUMMARY

INDIANA DEPARTMENT OF HIGHWAY

DATE: JULY 15, 1983

SHEET 14 OF 47

PROJECT: M - X 255 (3)
CONTRACT NO: B - 5 - 2
BRIDGE FILE: 50-36-6788

