

INDEX OF SHEETS

- SHEET NO. 1 TITLE
- SHEET NO. 2,0-2,10 TYPICAL CROSS SECTIONS
- SHEET NO. 3 ESTIMATE OF QUANTITIES
- SHEET NO. 3A MISCELLANEOUS QUANTITIES
- SHEET NO. 4,0-4,7 RIGHT OF WAY PLAT
- SHEET NO. 5-24 PLAN AND PROFILE STA. 216+04 TO STA. 342+73
- SHEET NO. 25-25,0 STANDARD DETAILS
- SHEET NO. 26-60 DRAINAGE STRUCTURES
- SHEET NO. 61-136 CROSS SECTIONS

COUNTY AND HIGHWAY	ROUTE AND SECTION	CLASS AND AGREEMENT		S.P.R. REGION DIVISION	SHEET NUMBER	TOTAL SHEETS
		STATE	FEDERAL			
32.3	90.1		13.21	4 WIS.	1	136
32.2	614.0	23.3				

STATE OF WISCONSIN
STATE HIGHWAY COMMISSION OF WISCONSIN

PLAN AND PROFILE OF PROPOSED

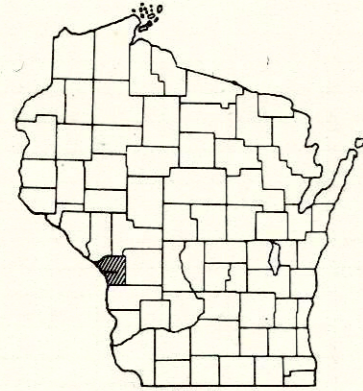
LA CROSSE - TOMAH ROAD
(BURLINGTON OVERPASS - U.S.H. 16 SECTION)
I.H. 90

U.S.H. 16 - ONALASKA ROAD
S.T.H. 157

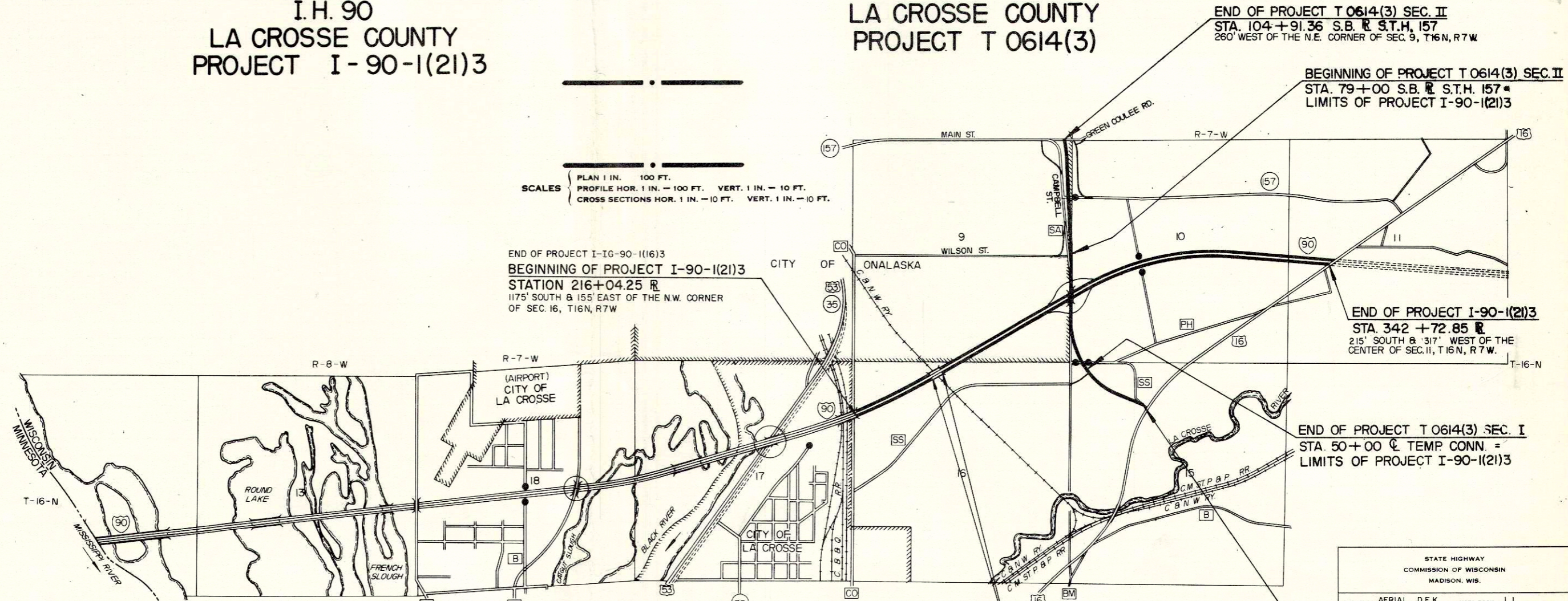
LA CROSSE COUNTY
PROJECT I-90-1(21)3

LA CROSSE COUNTY
PROJECT T 0614(3)

CONTROL OF ACCESS
WITHIN THE LIMITS OF THE PROJECT WHERE CONTROL OF ACCESS LINE IS SHOWN THUS NO ACCESS IS PERMITTED TO THE INTERSTATE TRAFFIC LANES, EXCEPT BY RAMPS AT INTERCHANGE.



PLAN 1 IN. = 100 FT.
PROFILE HOR. 1 IN. = 100 FT. VERT. 1 IN. = 10 FT.
CROSS SECTIONS HOR. 1 IN. = 10 FT. VERT. 1 IN. = 10 FT.



CONVENTIONAL SIGNS

- | | | | |
|---------------------------|---------|-------------------------------|---------|
| STATE LINE | --- --- | CULVERTS IN PLACE | --- --- |
| COUNTY LINE | --- --- | CULVERTS REQUIRED | --- --- |
| TOWNSHIP OR RANGE LINE | --- --- | DROP INLET | --- --- |
| SECTION LINE | --- --- | POWER POLE | --- --- |
| NEW RIGHT OF WAY LINE | --- --- | TELEPHONE OR TELEGRAPH POLE | --- --- |
| PRESENT RIGHT OF WAY LINE | --- --- | RIGHT OF WAY MARKERS | --- --- |
| WIRE FENCE UNWOVEN | --- --- | REFERENCE STAKE FOR HUBS ONLY | --- --- |
| WIRE FENCE BARBED | --- --- | MARSH | --- --- |
| LOT LINE | --- --- | HEDGE | --- --- |
| CORPORATE OR CITY LIMITS | --- --- | TREES | --- --- |
| PROPERTY LINE | --- --- | | |
| TRAVELED WAY OR P.E. | --- --- | | |
| RAILROADS | --- --- | | |
| BASE OR SURVEY LINE | --- --- | | |

LAYOUT
SCALE 1" = 1 MILE

TOTAL NET LENGTH OF CENTERLINE = 2.364 MI. 1.762 MI. RURAL } PROJECT I-90-1(21)3
0.602 MI. MCPL }

TOTAL NET LENGTH OF CENTERLINE = 0.870 MI. 0.379 MI. RURAL } PROJECT T 0614(3)
0.491 MI. MCPL }

STATE HIGHWAY COMMISSION OF WISCONSIN
MADISON, WIS.

SURVEYOR AERIAL D.E.K. NOTE BOOK L.L.
DIVISION COMPUTER G.O.B. M.O. CHECKER W.H.B.
DISTRICT CHECKER A.E.J. CORRECT

CORRECT:
DATE 12-13-65 *R.H. Judd* DISTRICT ENGINEER

RECOMMENDED FOR APPROVAL
DATE 12/21/65 *G.J. R. Judd* CHIEF DESIGN ENGINEER

APPROVED
DATE 12/22/65 *J. H. ...* STATE HIGHWAY ENGINEER

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

APPROVED

COUNTY AND HIGHWAY	ROUTE AND SECTION	CLASS AND AGREEMENT	B. P. R. REGION DIVISION	SHEET NUMBER	TOTAL SHEETS
32.3	90.1	13.2	4 WIS.	4.8	

CONST. PROJECT I-90-1(2)3 T0614(3) 4.3 136

CURVE #7
 PI = 269+22.71
 I = 240°-14'
 Δ = 60°-14'
 D = 13°-00'
 T = 255.65'
 L = 463.33'
 R = 440.73'
 E = 68.79'

CURVE #8
 PI = 276+01.40
 I = 142°-26'
 Δ = 37°-34'
 D = 9°-00'
 T = 216.57'
 L = 417.50'
 R = 636.62'
 E = 35.81'

CURVE #9
 PI = 283+99.85
 I = 223°-51'
 Δ = 43°-51'
 D = 7°-30'
 T = 307.52'
 L = 584.72'
 R = 763.94'
 E = 59.57'

CURVE #15
 PI = 262+33.18
 I = 228°-45'
 Δ = 48°-45'
 D = 7°-30'
 T = 346.14'
 L = 650.0'
 R = 763.94'
 E = 74.77'

CURVE #16
 PI = 271+73.46
 I = 231°-17'
 Δ = 51°-17'
 D = 13°-00'
 T = 211.58'
 L = 394.45'
 R = 440.73'
 E = 48.15'

S.B. 157 R/W R CURVE
 PI = 49+67.43
 I = 248°-33'
 Δ = 68°-33'
 D = 3°-00'
 T = 1301.73'
 L = 2285.0'
 R = 1909.9'
 E = 40.14'

CURVE #23
 PI = 264+75.26
 I = 133°-52'
 Δ = 46°-08'
 D = 7°-30'
 T = 325.26'
 L = 615.0'
 R = 763.94'
 E = 66.39'

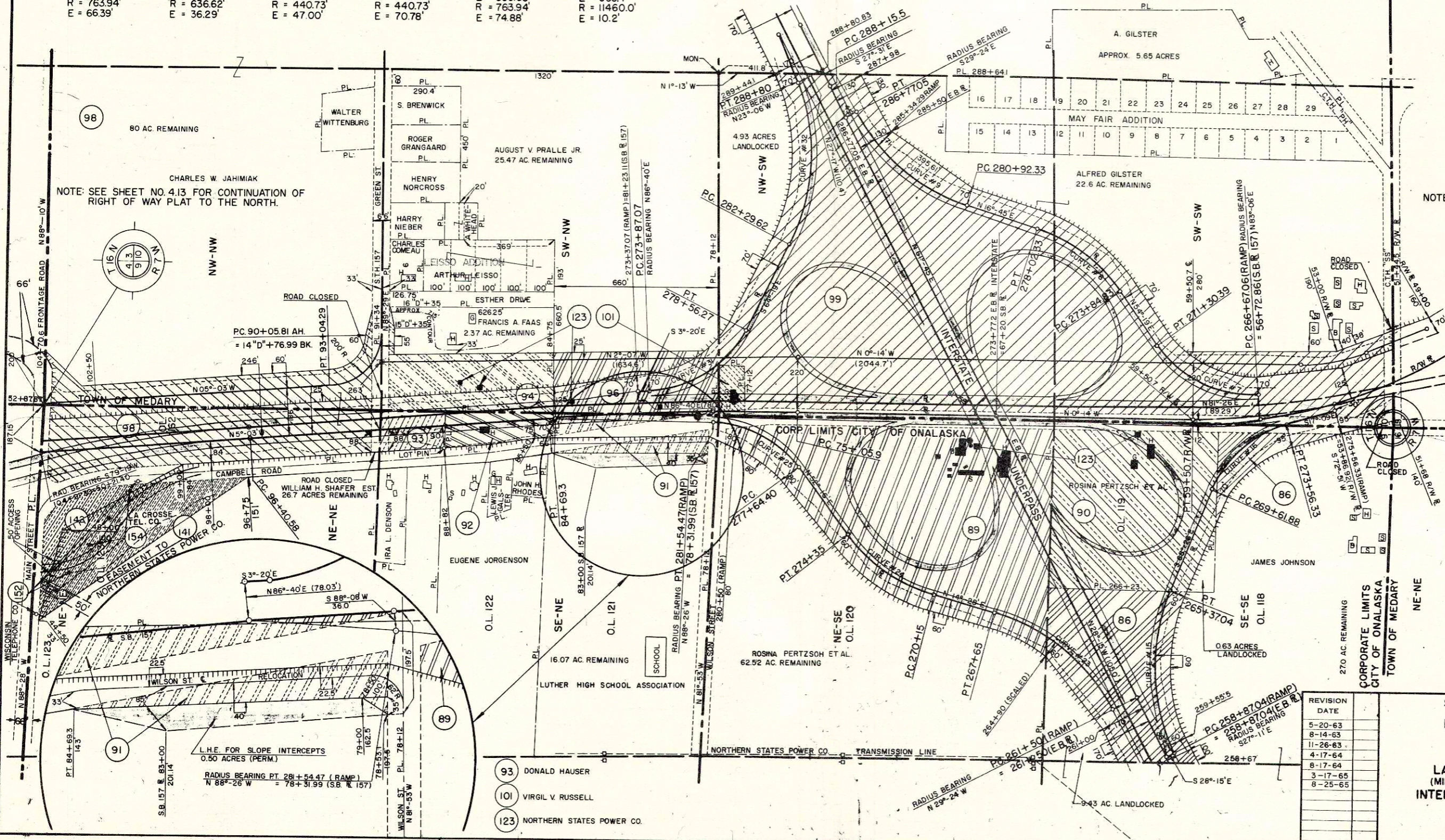
CURVE #24
 PI = 272+32.96
 I = 217°-48'
 Δ = 37°-48'
 D = 13°-00'
 T = 217.96'
 L = 390.07'
 R = 636.62'
 E = 36.29'

CURVE #25
 PI = 279+73.25
 I = 129°-17'
 Δ = 50°-43'
 D = 13°-00'
 T = 208.85'
 L = 390.07'
 R = 440.73'
 E = 47.00'

CURVE #31
 PI = 276+46.66
 I = 119°-00'
 Δ = 61°-00'
 D = 13°-00'
 T = 259.59'
 L = 469.20'
 R = 440.73'
 E = 70.78'

CURVE #32
 PI = 285+75.98
 I = 228°-47'
 Δ = 48°-47'
 D = 7°-30'
 T = 346.36'
 L = 650.38'
 R = 763.94'
 E = 74.88'

S.B. 157 C CURVE
 PI = 79+87.89
 I = 175°-11'
 Δ = 4°-49'
 D = 0°-30'
 T = 482.0'
 L = 963.4'
 R = 1146.0'
 E = 10.2'



NOTE: SEE SHEET NO. 4.13 FOR CONTINUATION OF RIGHT OF WAY PLAT TO THE NORTH.

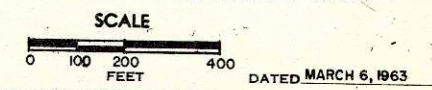
NOTE: SEE SHEET NO. 4.13 FOR CONTINUATION OF RIGHT OF WAY PLAT TO THE SOUTH.

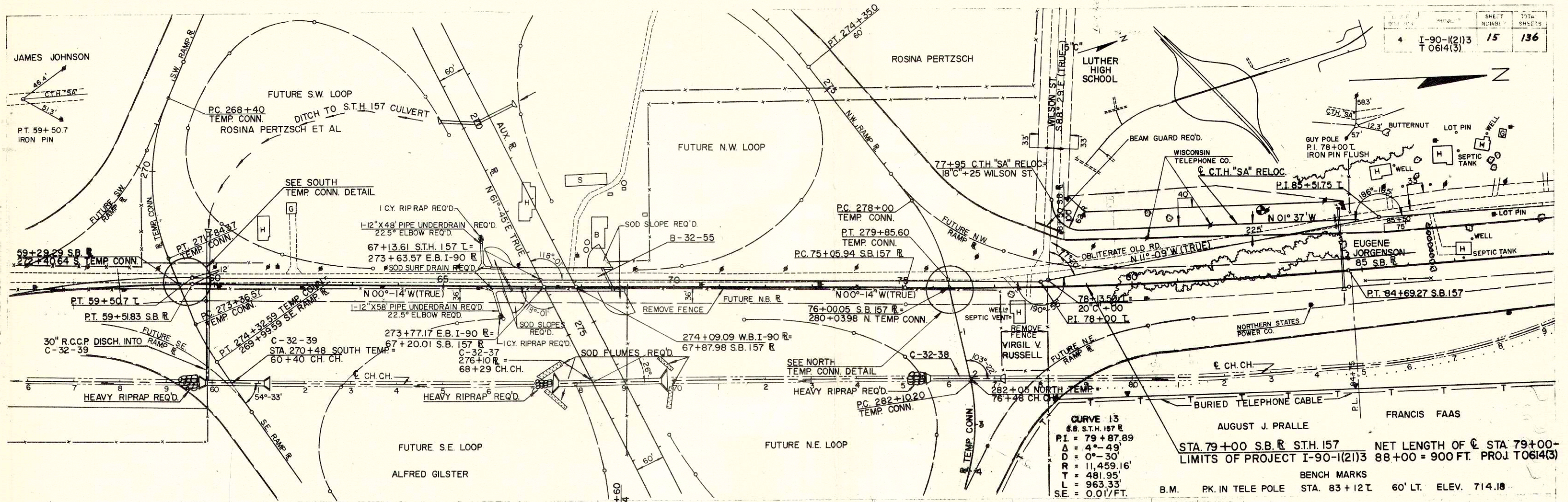
NOTE: BEARINGS SHOWN ON THIS PLAT ARE THE TRUE BEARINGS OF EACH TANGENT TO THE NEAREST MINUTE.

LEGEND
 DENOTES NO ACCESS

REVISION DATE
5-20-63
8-14-63
11-26-63
4-17-64
8-17-64
3-17-65
8-25-65

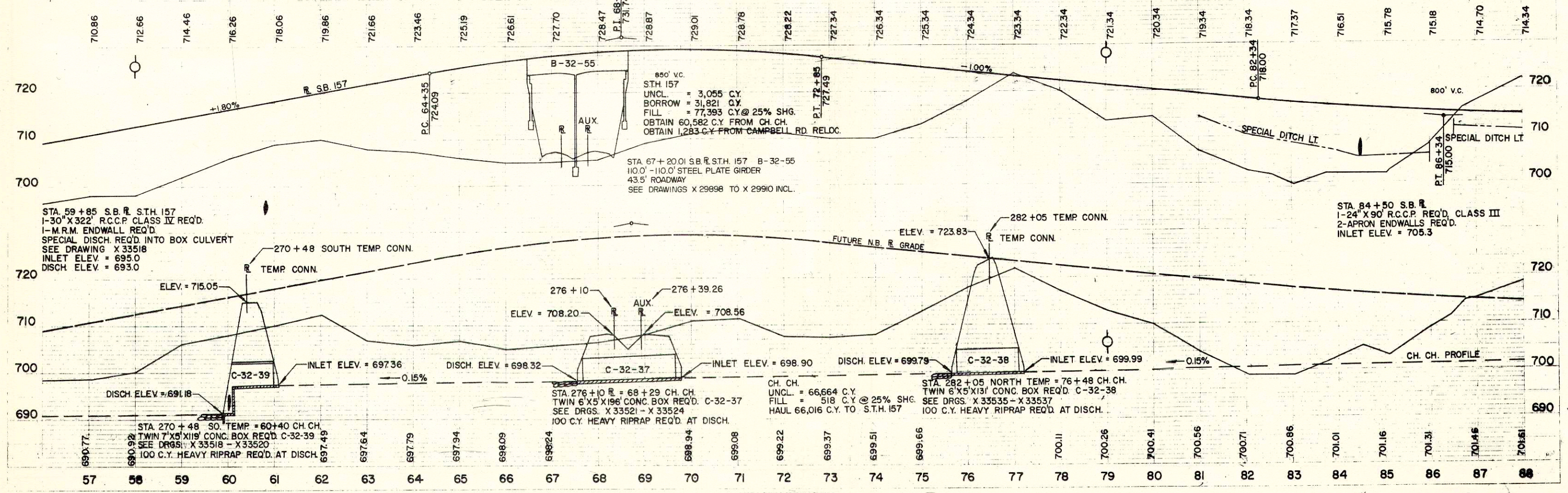
STATE HIGHWAY COMMISSION OF WISCONSIN
 PLAT OF RIGHT OF WAY REQUIRED
 PROJECT I 90-1(2)0
 LA CROSSE-TOMAH ROAD
 (MINNESOTA-WISCONSIN STATE LINE - U.S.H. 16)
 INTERSTATE HIGHWAY 90 LA CROSSE COUNTY





CURVE 13
 S.B. S.T.H. 157 R
 P.I. = 79+87.89
 Δ = 4°-49'
 D = 0°-30'
 R = 11,459.16'
 T = 481.95'
 L = 963.33'
 S.E. = 0.01/FT.

STATIONING: STA. 79+00 S.B. R. S.T.H. 157
 LIMITS OF PROJECT I-90-(2)13 88+00 = 900 FT. PROJ. T0614(3)



850' V.C.
 S.T.H. 157
 UNCL. = 3,055 C.Y.
 BORROW = 31,821 C.Y.
 FILL = 77,393 C.Y. @ 25% SHG.
 OBTAIN 60,582 C.Y. FROM CH. CH.
 OBTAIN 1,283 C.Y. FROM CAMPBELL RD. RELOC.

STA. 67+20.01 S.B. R. S.T.H. 157 B-32-55
 110.0' - 110.0' STEEL PLATE GIRDER
 43.5' ROADWAY
 SEE DRAWINGS X 29898 TO X 29910 INCL.

STA. 59+85 S.B. R. S.T.H. 157
 1-30" X 322" R.C.C.P. CLASS IV REQ'D.
 1-M.R.M. ENDWALL REQ'D.
 SPECIAL DISCH. REQ'D. INTO BOX CULVERT
 SEE DRAWING X 33518
 INLET ELEV. = 695.0
 DISCH. ELEV. = 693.0

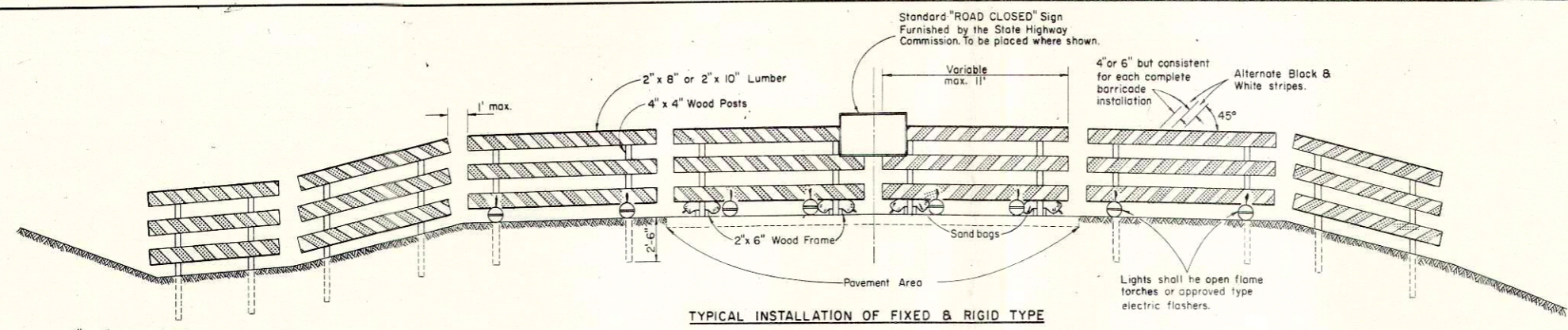
STA. 84+50 S.B. R.
 1-24" X 90" R.C.C.P. REQ'D. CLASS III
 2-APRON ENDWALLS REQ'D.
 INLET ELEV. = 705.3

STA. 276+10 R. = 68+29 CH. CH.
 TWIN 6' X 5' X 196" CONC. BOX REQ'D. C-32-37
 SEE DRGS. X 33521 - X 33524
 100 C.Y. HEAVY RIPRAP REQ'D. AT DISCH.

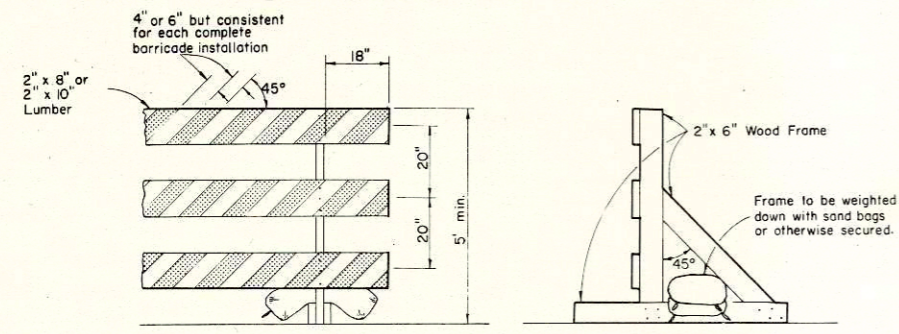
CH. CH.
 UNCL. = 66,664 C.Y.
 FILL = 518 C.Y. @ 25% SHG.
 HAUL 66,016 C.Y. TO S.T.H. 157

STA. 282+05 NORTH TEMP = 76+48 CH. CH.
 TWIN 6' X 5' X 131" CONC. BOX REQ'D. C-32-38
 SEE DRGS. X 33535 - X 33537
 100 C.Y. HEAVY RIPRAP REQ'D. AT DISCH.

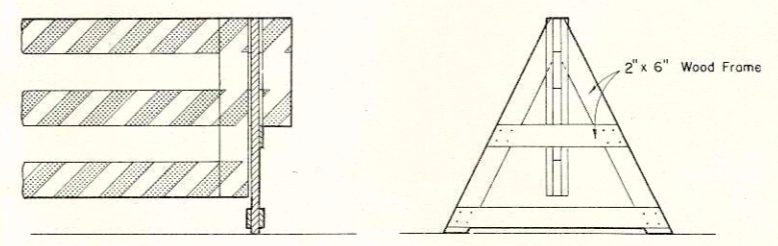
25.6-136
10-17



TYPICAL INSTALLATION OF FIXED & RIGID TYPE

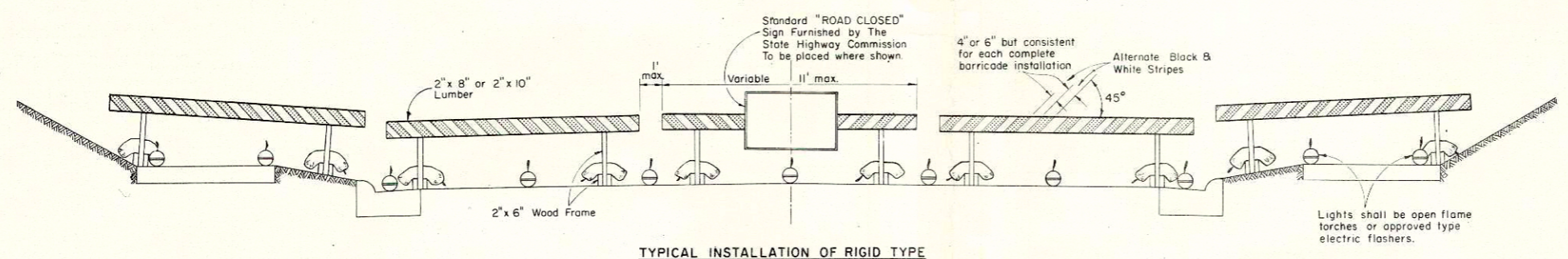


ALTERNATE TYPE INSTALLATION (RIGID)

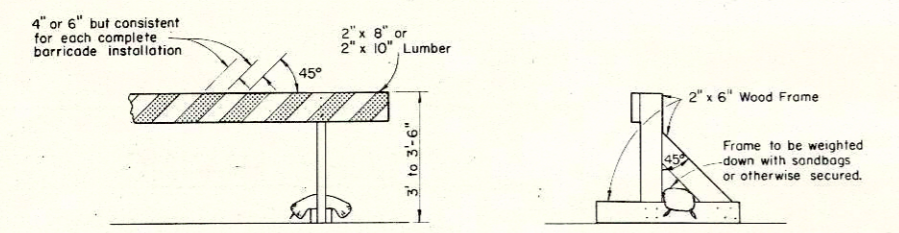


ALTERNATE TYPE INSTALLATION (DEMOUNTABLE)

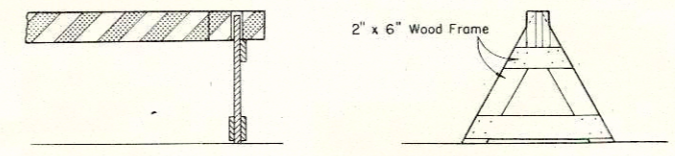
CLASS I BARRICADE



TYPICAL INSTALLATION OF RIGID TYPE



ALTERNATE TYPE INSTALLATION (RIGID)



ALTERNATE TYPE INSTALLATION (DEMOUNTABLE)

CLASS II BARRICADE

GENERAL NOTES:

The Contractor shall construct, place and maintain barricades as shown on this drawing and as required by the Standard Specifications for the duration of the project at all points of highway closure. Barricades shall be painted as shown hereon and structurally maintained for maximum visibility at all times, for the duration of the respective project.

CLASS I BARRICADE

Shall be used at points of closure where road is closed to traffic. Gates or movable sections of barricade shall be provided when necessary, for access of equipment or other authorized vehicles only.

CLASS II BARRICADE

May be used only where the hazard to traffic is relatively small, and for the more or less continuous delimiting of a restricted roadway, or for temporary daytime use.

LUMBER & FABRICATION

Lumber shall be of a grade structurally sound and sufficiently rigid to satisfactorily support and maintain the purpose and intent of a barricade facility. The fabrication of the barricade shall be in accord with good pertinent wood-working practices.

PAINTING

Barricades shall be painted as shown hereon in alternate black and white stripes. Black stripes shall be painted with weather resistant and durable black paint. White stripes shall be painted a prime coat of good grade wood primer, followed by two coats of white "Codic Reflective Liquid" (Minnesota Mining Co.) or equivalent, or reflective sheeting wide angle, flat top "Scotchlite" brand material (Minnesota Mining Co.) or equivalent.

DIRECTION OF DIAGONAL STRIPES

Where a barricade extends entirely across the roadway and no vehicle access provision, the stripes shall slope downward toward the highway centerline.

Where vehicle access is permitted, the stripes shall slope downward in the direction toward which vehicles must turn in detouring.

Where both right and left turns are provided for, the stripes shall slope downward in both directions from the center.

MEASUREMENT & PAYMENT

All barricades, unless otherwise provided for in the plans and/or special provisions shall be furnished, placed, and maintained as noted above, and no additional compensation will be allowed but shall be construed to be included in the price bid for other items.

NOTE:

Lighting devices for barricades shall conform to the requirements of the Standard Specifications.

NOTE:

All lumber or timber dimensions shown hereon are nominal.

CONSTRUCTION BARRICADE

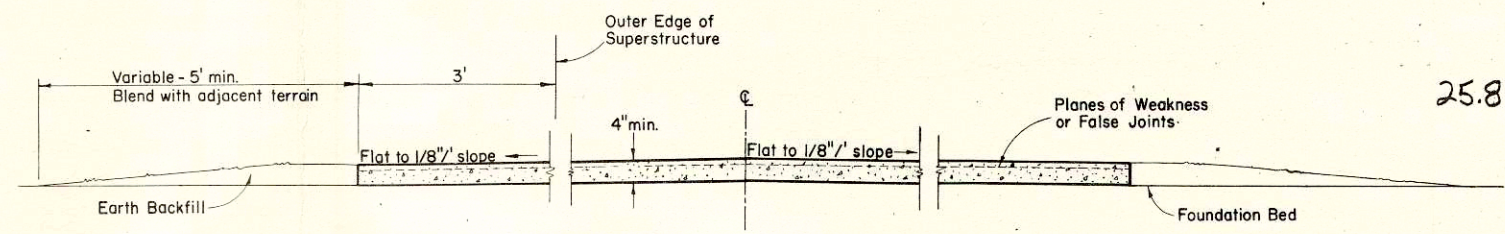
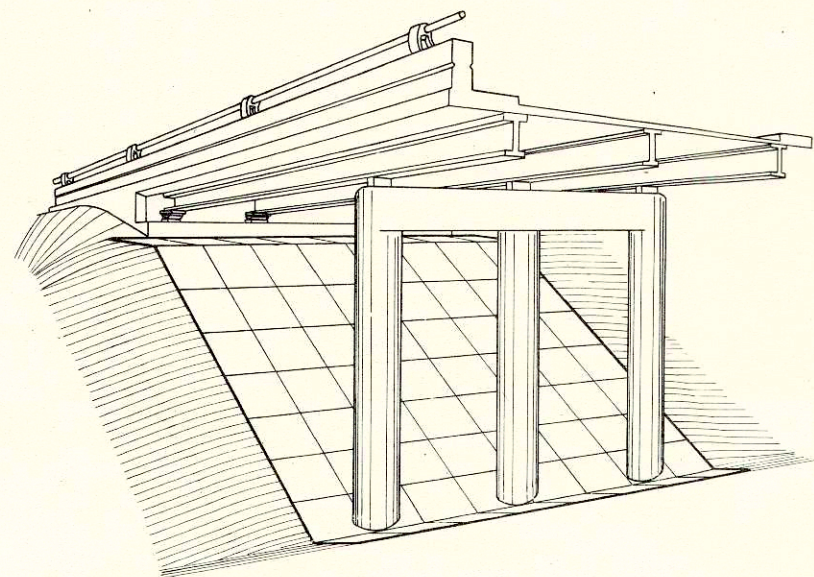
STATE HIGHWAY COMMISSION OF WISCONSIN

RECOMMENDED FOR APPROVAL:

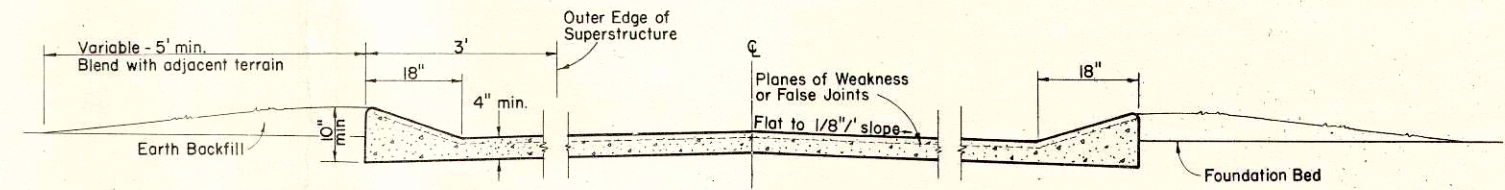
DATE 2-5-63 J. S. Pelt ENGINEER OF DESIGN

APPROVED: DATE 2/6/63 STATE HIGHWAY ENGINEER

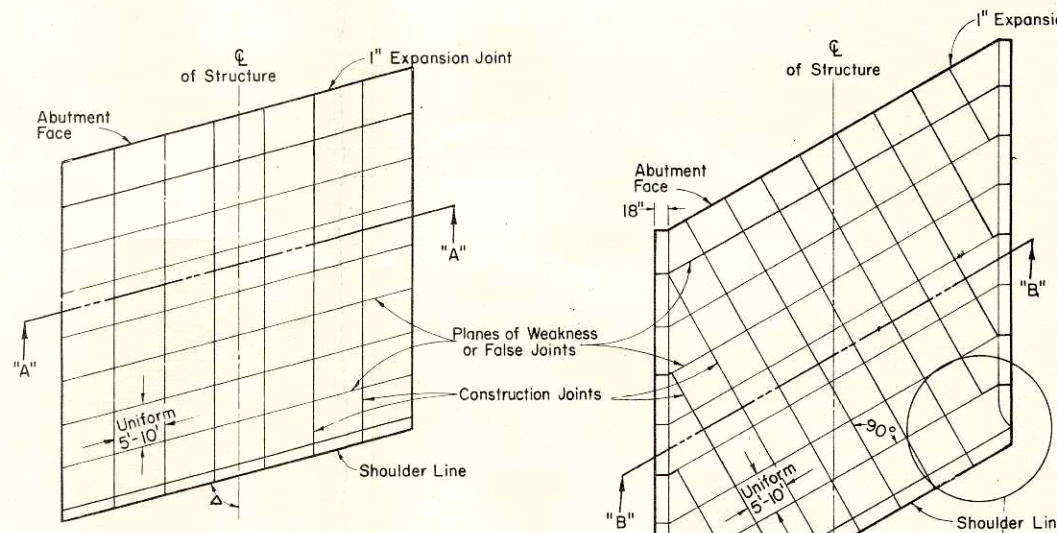
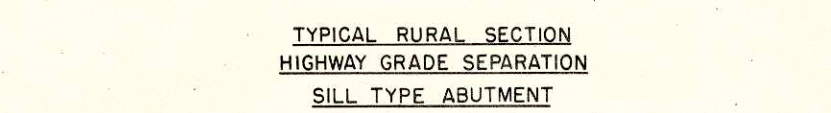
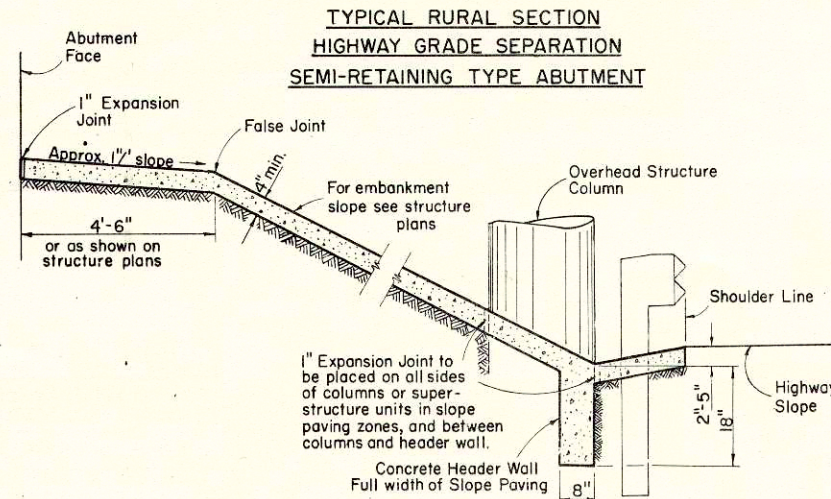
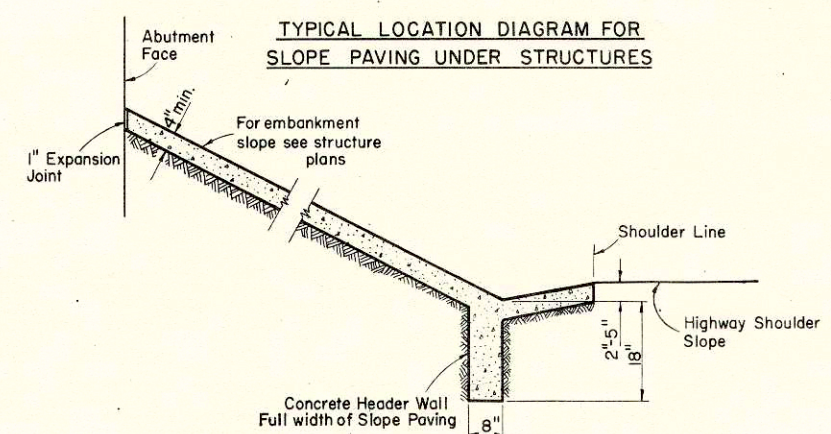
PLATE NO. 7-4.1.4



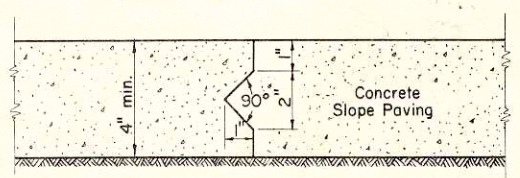
SECTION "A-A"
To be used when $\Delta = 75^\circ$ to 90°



SECTION "B-B"
To be used when $\Delta = 75^\circ$ or less



Sketches Showing Planes of Weakness
Construction Joint Designs for
SKewed Type Installations



CONSTRUCTION JOINT

GENERAL NOTES

Details of construction not shown herein shall conform to the pertinent requirements of the Standard Specifications and the applicable Special Provisions.

CONCRETE MASONRY

All concrete masonry shall conform to the Standard Specifications requirements for Grade AA.

EXPANSION JOINTS

Expansion joint filler, where required as shown herein shall conform to the Standard Specifications.

METHOD OF MEASUREMENT & PAYMENT

This work shall be measured and paid for by the square yard, which yardage shall be the summation of the total area measured on the plane of the surface thereof, which area includes the header wall and thickened edges, but exclusive of the areas occupied by the structure piers or columns, and as provided for in the Standard Specifications.

SLOPE PAVING
(CONCRETE CAST-IN-PLACE)

STATE HIGHWAY COMMISSION OF WISCONSIN

RECOMMENDED FOR APPROVAL:

DATE: 11/5/64

APPROVED: [Signature]

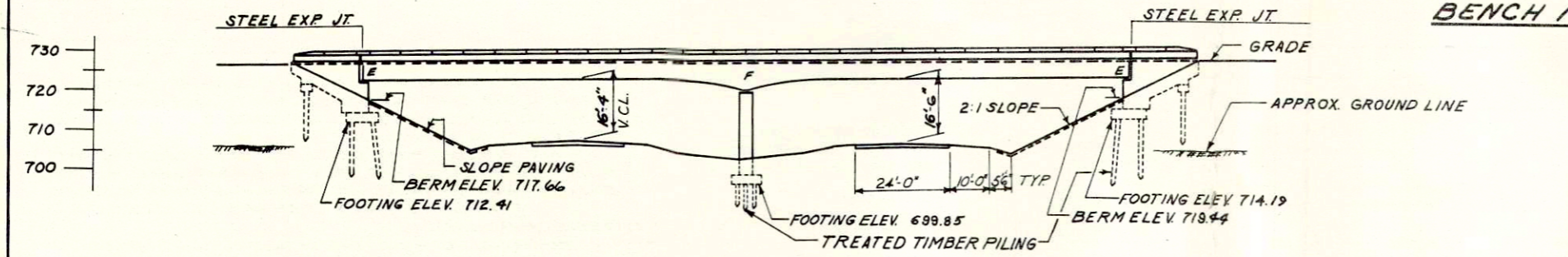
DATE: 11/5/64

APPROVED: [Signature]

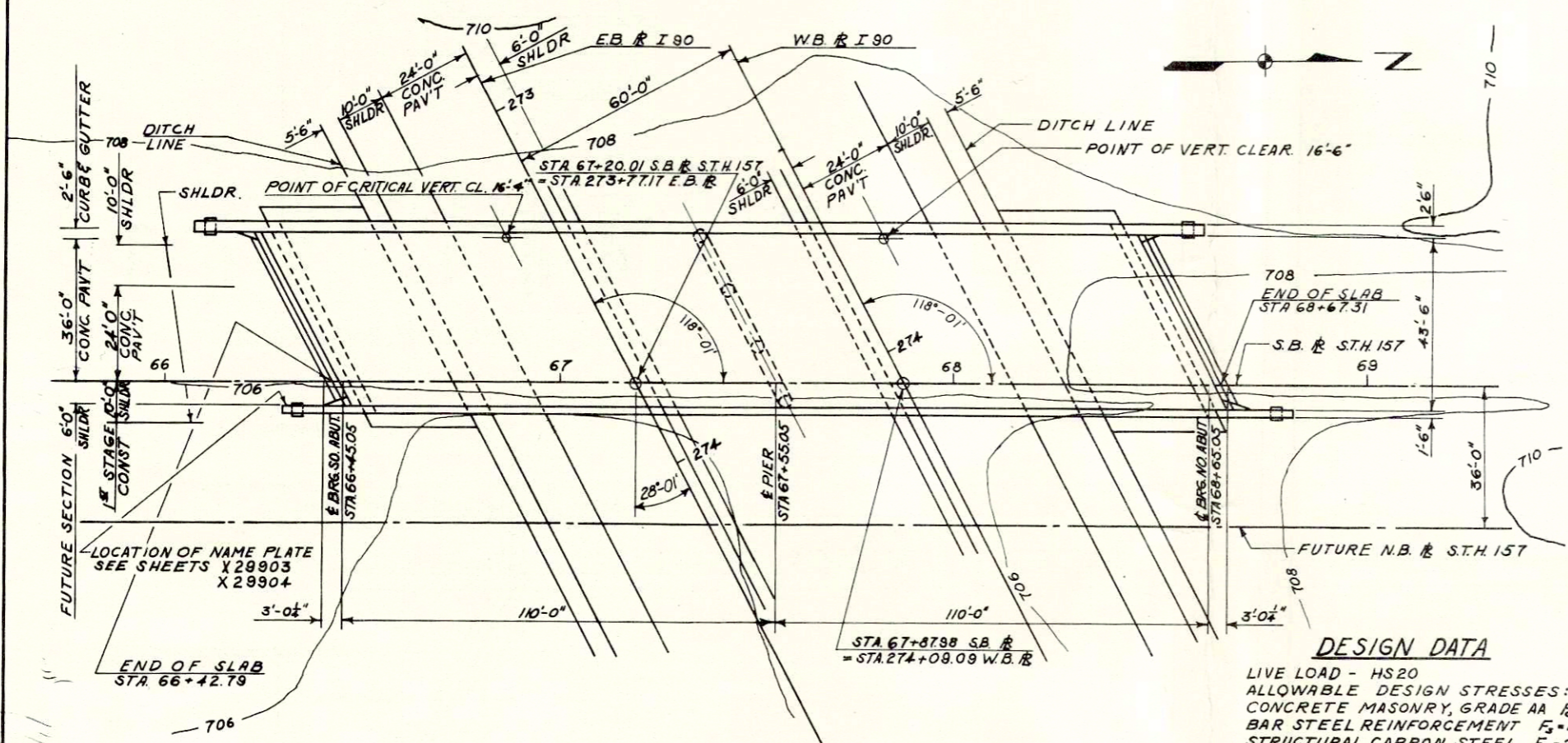
PLATE NO. 8-3.3.7

STA.	DESCRIPTION	ELEV.
83+12	RK. IN TELE. POLE 60' LT.	714.34

COUNTY & HIGHWAY	ROUTE & SECTION	CLASS & AGREEMENT	FEDERAL	S. P. R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
72.3	90.1	13.1	4	1-90-1(2)3	26	136	



ELEVATION
NORMAL TO I.H. 90



PLAN

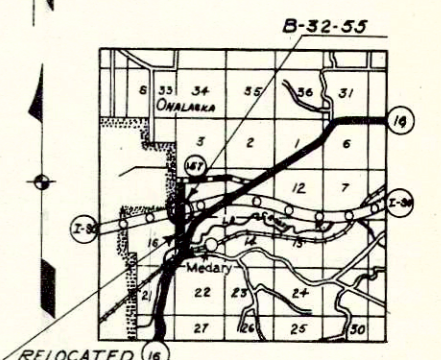
DESIGN DATA

LIVE LOAD - HS20
 ALLOWABLE DESIGN STRESSES:
 CONCRETE MASONRY, GRADE AA $f_c = 1400$ P.S.I.
 BAR STEEL REINFORCEMENT $F_s = 20,000$ P.S.I.
 STRUCTURAL CARBON STEEL $F_s = 20,000$ P.S.I.
 TREATED TIMBER PILING - MIN BEARING VALUE = 24 TONS PER PILE

BENCH MARK

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
 ALL CONCRETE MASONRY SHALL BE GRADE "AA", & EQUAL TO 1400 P.S.I.
 BEVEL ALL EXPOSED EDGES OF CONCRETE 1" UNLESS OTHERWISE SHOWN OR NOTED.
 BAR STEEL REINFORCEMENT SHALL BE IMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.
 THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH SLOPE PAVING TO THE EXTENT SHOWN ON THIS SHEET AND ON SHEETS X29905 AND X29907.
 ALL FIELD CONNECTIONS SHALL BE MADE WITH 3/4" & HIGH TENSILE STRENGTH BOLTS (FRICTION TYPE) UNLESS OTHERWISE SHOWN OR NOTED.
 UPPER LIMITS FOR "EXCAVATION FOR STRUCTURES" AT THE ABUTMENTS SHALL BE AS SHOWN ON X29908 AND AT THE PIER, SHALL BE THE FINISHED GRADED SECTION.
 GRANULAR BACKFILL SHALL BE PLACED AT BOTH ABUTMENTS TO THE LIMITS SHOWN ON X29908
 PILING AT ALL SUB-STRUCTURE UNITS SHALL BE TREATED TIMBER PILING, ESTIMATED LENGTH OF ABUT. PILES - 30'-0"; ESTIMATED LENGTH OF PIER PILES - 25'-0".



LOCATION MAP

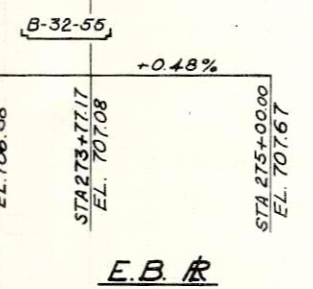
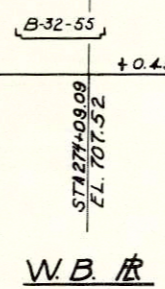
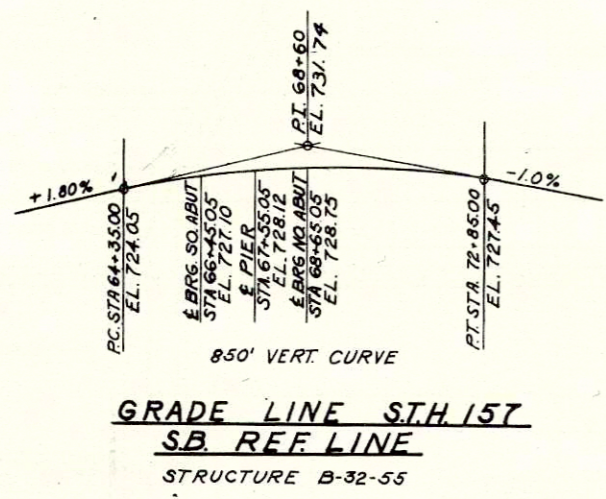
TOTAL ESTIMATED QUANTITIES

BID ITEMS	UNIT	SUPER.	S. ABUT.	PIER	N. ABUT.	TOTAL
EXCAVATION FOR STRUCTURES	C.Y.	---	150	120	140	410
GRANULAR BACKFILL	C.Y.	---	230	---	200	430
CONCRETE MASONRY	C.Y.	284	116.5	72	116.5	589
BAR STEEL REINFORCEMENT	LB.	96,360	5,160	9,930	5,150	116,600
STRUCTURAL CARBON STEEL	LB.	317,270	---	---	---	317,270
STRUCTURAL LOW ALLOY STEEL	LB.	3,920	---	---	---	3,920
LUBRICATED BRONZE PLATES	LB.	149	---	---	---	149
BEARING PADS	S.F.	29	---	---	---	29
* TREATED TIMBER TEST PILING	L.S.	---	---	---	---	1
TREATED TIMBER PILING - DEL.	L.F.	---	720	1,025	720	2,465
TREATED TIMBER PILING - DRY.	L.F.	---	720	1,025	720	2,465
TUBULAR RAILING TYPE-G	L.F.	510	---	---	---	510
SLOPE PAVING (CONCRETE)	S.Y.	---	190	---	200	390
NON-BID ITEMS						
ALUMINUM OR ZINC PLATES	S.F.	28	---	---	---	28

* DRIVE ONE 40'-0" TEST PILE AT EACH SUB-STRUCTURE UNIT.

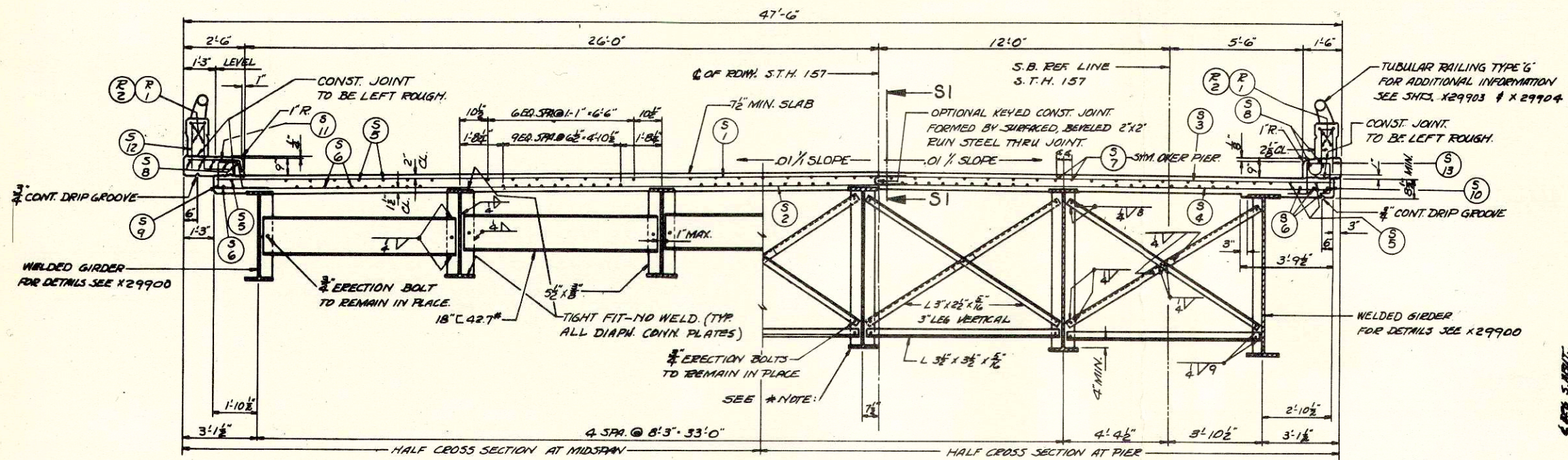
LIST OF DRAWINGS

- GENERAL PLAN X29898
- SUPERSTRUCTURE X29899
- SUPERSTRUCTURE X29900
- EXPANSION JOINT X29901
- BEARING DETAILS X29902
- TUBULAR ALUMINUM RAILING, TYPE "G" X29903
- TUBULAR STEEL RAILING, TYPE "G" X29904
- SOUTH ABUTMENT X29905
- PIER X29906
- NORTH ABUTMENT X29907
- ABUTMENT DETAILS X29908
- BILL OF BARS X29909
- SUBSURFACE EXPLORATION X29910

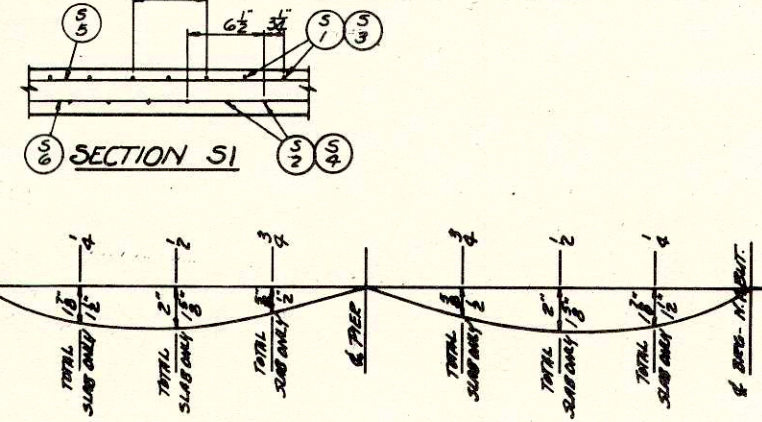


REVISED	STATE HIGHWAY COMMISSION OF WISCONSIN
GENERAL PLAN	
CO. LA CROSSE MEDARY STA. 67+55.05	
SECTION 10	TOWN 16 N RANGE 7 W
DESIGN SPEC. AASHO 61	LOADING HS 20
DATE: 11-25-64	DESIGN G.N. DRAWN JAS. CKD. B.
RECOMMENDED	<i>T. B. Schuff</i> ENGINEER
APPROVED	<i>H. J. ...</i> STATE HIGHWAY ENGINEER
STRUCTURE B-32-55 SHEET 1 OF 13	

R.P.R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	I-90-1(2)S	27	136



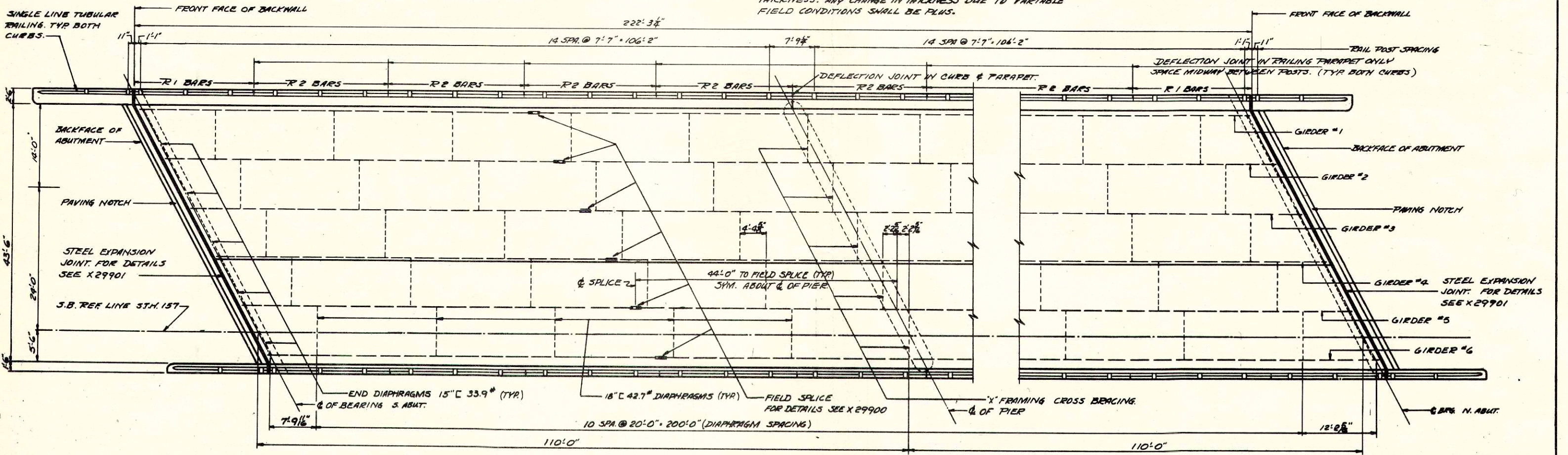
NOTE:
 TOP & BOTTOM TRANSVERSE BARS IN SLAB SHALL BE SUPPORTED BY CONTINUOUS BAR CHAIRS OR ADJACENT TO EACH GIRDER AND BY INDIVIDUAL BAR CHAIRS AT 3'-0" CENTERS AT APPROXIMATELY THE 3 POINTS BETWEEN GIRDERS.
 WHERE EMBEDMENT OF GIRDER FLANGES EXCEEDS 1/2" THE BOTTOM TRANSVERSE SLAB REINFORCEMENT SHALL BE TIED DOWN TO HOLD 1/2" CLEAR AT MIDSPAN BETWEEN GIRDERS. THE 9" HEIGHT OF CURB TO BE MAINTAINED AT ALL POINTS OF BEARING.
 TRANSVERSE REINFORCEMENT IN SLAB SHALL BE PLACED PARALLEL TO Q OF SUBSTRUCTURE UNITS.



CROSS SECTION THRU RDWY

NOTE:
 AT RIGHT 1/4 TO REF LINE, LOOKING NORTH.
 IF THE OPTIONAL CONSTRUCTION JOINT IS USED THIS GIRDER WILL TAKE 50% OF ITS ANTICIPATED SLAB DEAD LOAD DEFLECTION WHEN THE FIRST FLOOR POUR IS COMPLETED.

NOTE:
 SLAB THICKNESS 7/8" CONSTANT FOR GIRDERS #1 THRU #5
 SLAB THICKNESS 8/8" CONSTANT FOR GIRDERS #6
 CAMBER IN GIRDERS PROVIDE THE ABOVE THEORETICAL SLAB THICKNESS. ANY CHANGE IN THICKNESS DUE TO VARIABLE FIELD CONDITIONS SHALL BE PLUS.



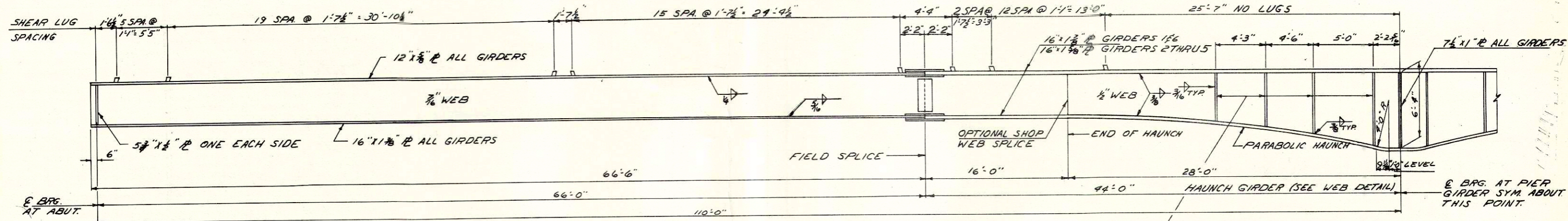
PLAN

DIRECTION OF POUR MAY BE MADE IN EITHER DIRECTION. SEE SHEET 5 FOR LOCATION OF TEMPORARY HOLD DOWN DEVICE.

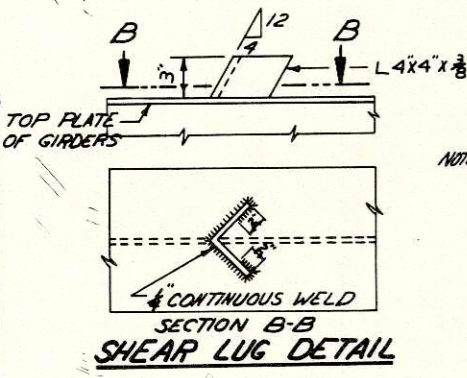
REVISED	STATE HIGHWAY COMMISSION OF WISCONSIN
	SUPERSTRUCTURE
	DESIGN SPEC. AASHTO 6A LOADING HS20 SPEC. 1963
	DATE/AS-6P DESIGN G.N. DRAWN I.L. BY B.J.
STRUCTURE B-32-55	SHEET 2 OF 13
X29899	

NOTE: FIELD WELDING ON TOP FLANGE FOR CONSTRUCTION PURPOSES IS PROHIBITED IN AREA OVER PIER BETWEEN SHEAR LUGS.

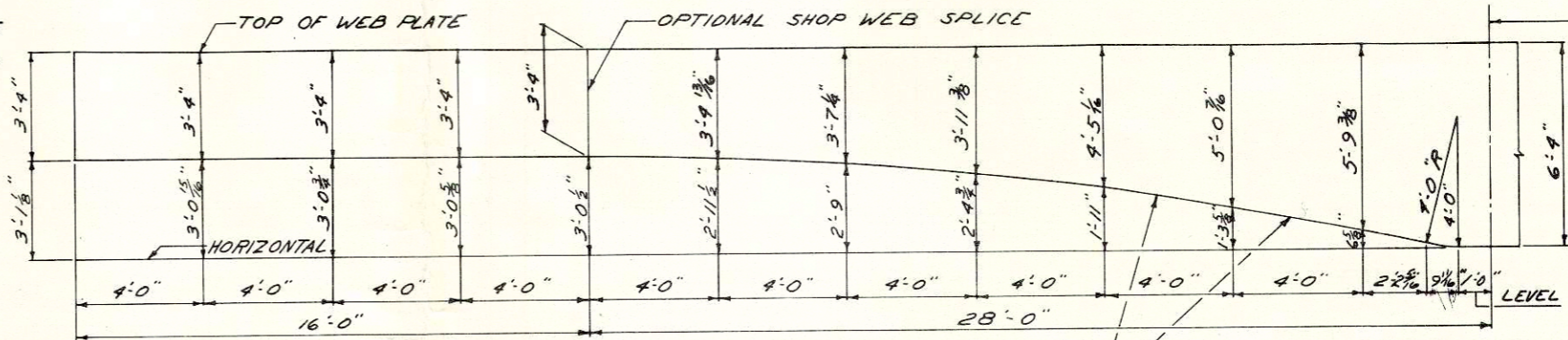
B. P. R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	I-90-1(2)3	28	136



HALF LONGITUDINAL GIRDER SECTION

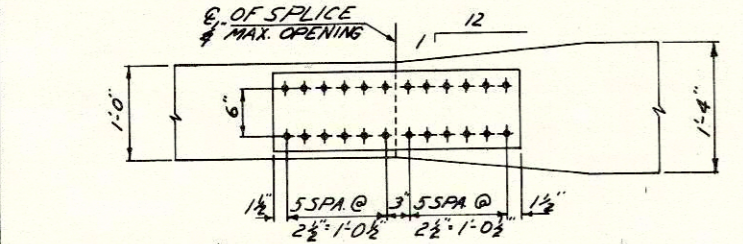


SHEAR LUG DETAIL



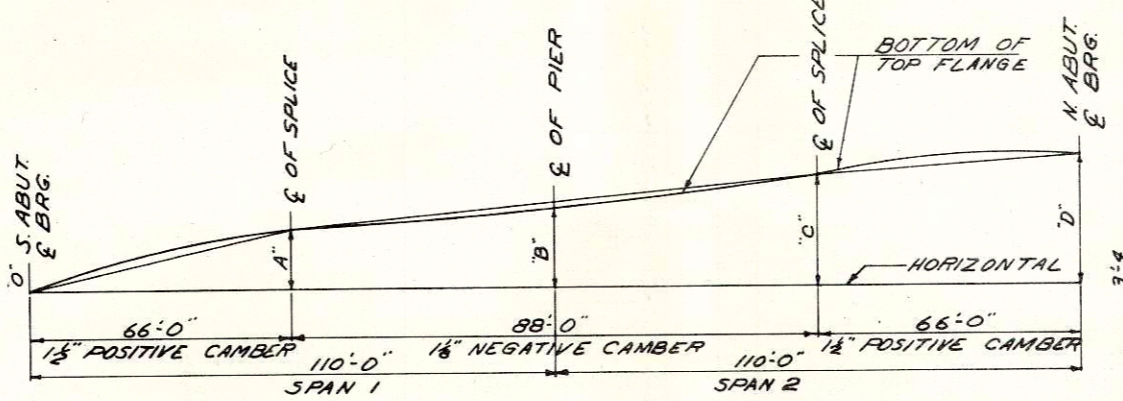
WEB DETAIL

WHEN CUTTING WEB PLATES, PLATE EDGE SHALL APPROXIMATE A PARABOLIC CURVE.



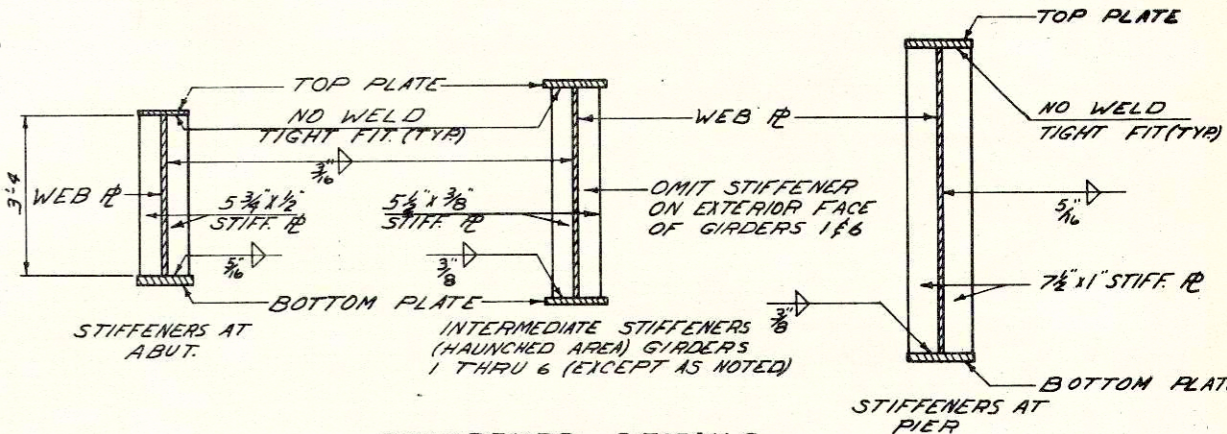
SPLICE DETAIL

NOTE: 3/4" HIGH STRENGTH BOLTS (FRICTION TYPE) SHALL BE USED AT SPLICES. TACK WELD FILL MATERIAL TO GIRDER FLANGES.



BLOCKING DIAGRAM

LOCATION	A	B	C	D
GIRDER #1	9 1/2"	1'-1 1/8"	1'-6 1/2"	1'-9 3/8"
GIRDER #2	9 3/8"	1'-0 3/8"	1'-6 1/4"	1'-9 1/8"
GIRDER #3	9 1/4"	1'-0 1/4"	1'-6"	1'-8 3/8"
GIRDER #4	9 1/8"	1'-0 1/8"	1'-5 1/2"	1'-8 1/4"
GIRDER #5	9 1/4"	1'-0 3/8"	1'-5 3/8"	1'-7 3/8"
GIRDER #6	9 3/8"	1'-0 1/8"	1'-5 3/8"	1'-7 1/2"



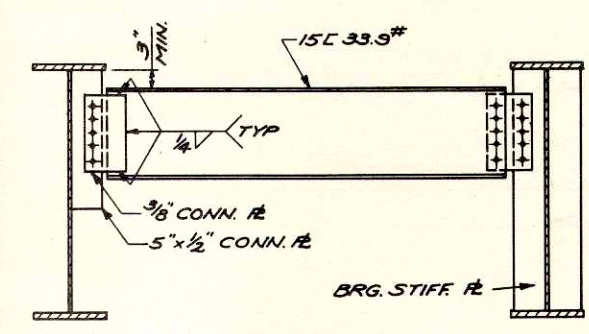
STIFFENER DETAILS

REVISED	STATE HIGHWAY COMMISSION OF WISCONSIN		
	SUPERSTRUCTURE		
DESIGN BRD.	AASHO '61	LOADING	HS 20
DATE	11-25-61	DESIGN	GN
CONTR. SPEC.	1963	DRAWN	AWW
STRUCTURE	B-32-55	SHEET	3 OF 13

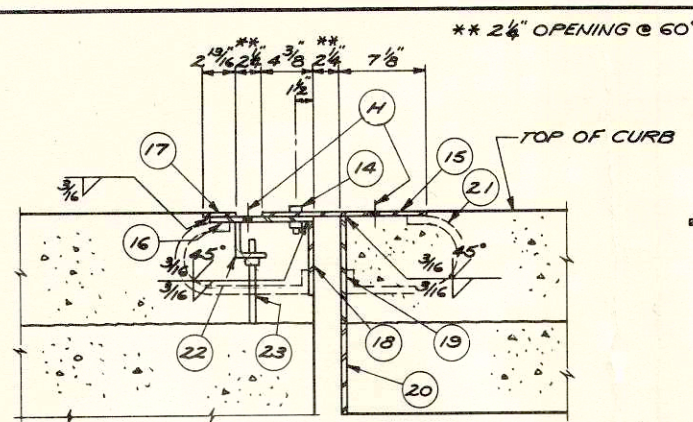
B. P. R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	I-90-1(21)3	29	136

LEGEND

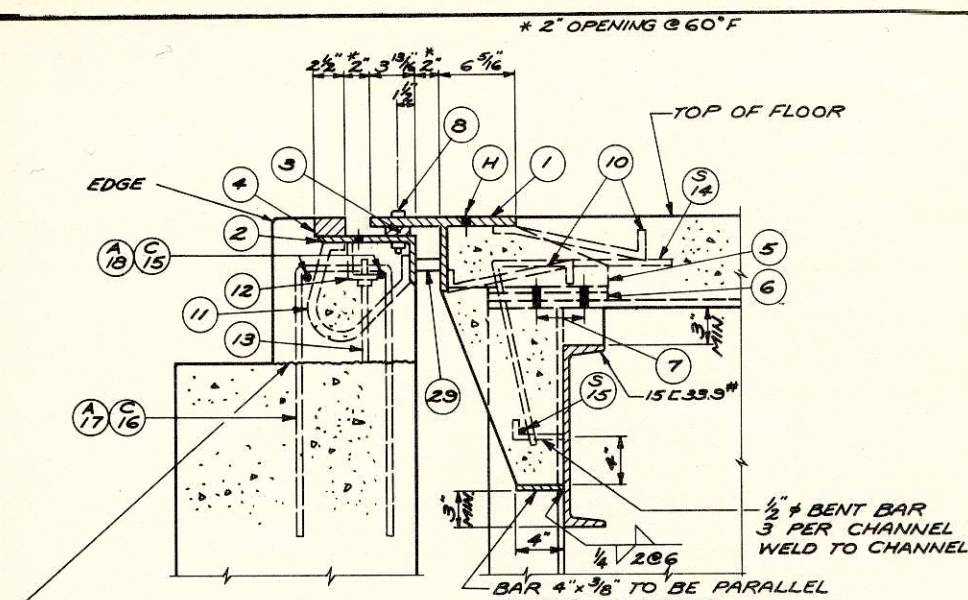
1. ST. CWF 33.5" x ROADWAY WIDTH.
2. L 8" x 4" x 7/16" x ROADWAY WIDTH.
3. BAR 2" x 3/4" x ROADWAY WIDTH. WELD TO L#2 WITH 2 LINES OF 1/4" FILLET WELD. 2 @ G.
4. BAR 2 1/2" x 1/2" x ROADWAY WIDTH. WELD TO L#2 WITH 2 LINES OF 1/4" FILLET WELD. 2 @ G.
5. FABRICATE FROM 3/8" WELDED R. WELD TO STEM & FLANGE OF ST.#1 WITH 1/4" FILLET WELD NEAR SIDE & FAR SIDE.
6. 3/8" MIN. LAMINATED & SLOTTED SHIM.
7. DRILL HOLES IN GIRDER FLANGE IN FIELD FOR 4-3/8" ERECTION BOLTS.
8. 3/4" # BOLTS WITH SQ. NUTS @ 2'-0" CTRS. TACK WELD NUT TO L#2. GREASE FOR EASY REMOVAL. 1 3/16" x 1 3/4" SLOTTED HOLE IN ST.#1. LONGITUDINAL DIMENSION OF SLOTTED HOLE TO BE PARALLEL TO E OF ROADWAY. 3/16" HOLE IN BAR #5 & L#2.
9. VENT HOLES 1" x 3/8" #, PLACED AT 2'-0" CTRS. ON L#2 & ST.#1 AND AT 9" CTRS. ON R#S 15 & 16.
10. 3/8" BENT BAR @ 0'-9" ALTERNATE CTRS. BETWEEN GIRDERS 1'-3" LONG. WELD TO ST.#1.
11. 5/8" BENT BAR @ 1'-0" CENTERS. 2'-0" LONG. WELD TO L#2.
12. L 3" x 2 1/2" x 3/8" x 0'-3" @ 3'-0" CTRS. WELD TO L#2. PROVIDE 3/8" HOLE IN 2 1/2" LEG FOR BOLT #13.
13. 1/2" # BOLT x 9" LONG & NUT. TACK WELD NUT TO L#12.
14. 3/4" # BOLT. SAME AS BOLT #8 EXCEPT FOR LENGTH.
15. R 1 3/4" x 3/8" - BEND DOWN FLUSH WITH FACE OF CURB AS SHOWN. WELD TO R#19 AS SHOWN. FIELD WELD TO ST.#1.
16. R 9" x 3/8" - BEND DOWN FLUSH WITH FACE OF CURB AS SHOWN. WELD TO R#18 AS SHOWN.
17. R 2 3/16" x 3/8" - BEND DOWN FLUSH WITH FACE OF CURB AS SHOWN. WELD TO R#16 WITH ONE LINE OF 3/16" FILLET WELD. FIELD WELD TO BAR #4.
18. 6" x 3/8" R. CUT TO CURB LIMITS AS SHOWN.
19. 3/8" R. CUT TO CURB LIMITS AS SHOWN. FIELD WELD TO R#20.
20. 3/8" R. CUT TO CURB LIMITS AS SHOWN. SHOP WELD TO ST.#1.
21. 3/8" BAR. 1'-6" LONG. WELD TO R#S #16 & 18 AND R#S #15 & #19 WITH 3/16" FILLET WELDS ALL AROUND.
22. L 3" x 2 1/2" x 3/8" x 0'-3". WELD TO R#16. PROVIDE 3/8" HOLE IN 2 1/2" LEG FOR BOLT #23.
23. 1/2" # BOLT x 0'-7" LONG & NUT. TACK WELD NUT TO L#22.
24. ANCHOR BAR - 2 1/2" x 3/8" x 1'-0" L. WELD TO R#S #15 & #16.
25. R 1 3/4" x 3/8" - CUT TO CURB LIMITS AS SHOWN. FIELD WELD TO ST.#1.
26. R 9" x 3/8" - CUT TO CURB LIMITS AS SHOWN.
27. R 2 3/16" x 3/8" - CUT TO CURB LIMITS AS SHOWN. WELD TO R#26 WITH ONE LINE OF 3/16" FILLET WELD. FIELD WELD TO BAR #4.
28. 3/8" BAR. 1'-9" LONG. WELD TO R#S #25 & #26 WITH 3/16" FILLET WELDS ALL AROUND.
29. BLOCK AND BOLT FOR SHIPMENT WITH PIPE SLEEVE AND 1/2" # BOLT. PROVIDE 3/16" # HOLES AT 3'-0" CTRS. IN ST.#1 AND L#2 FOR 1/2" # BOLT.



DIAPHRAGM CONN. DETAIL
AT END DIAPHRAGM

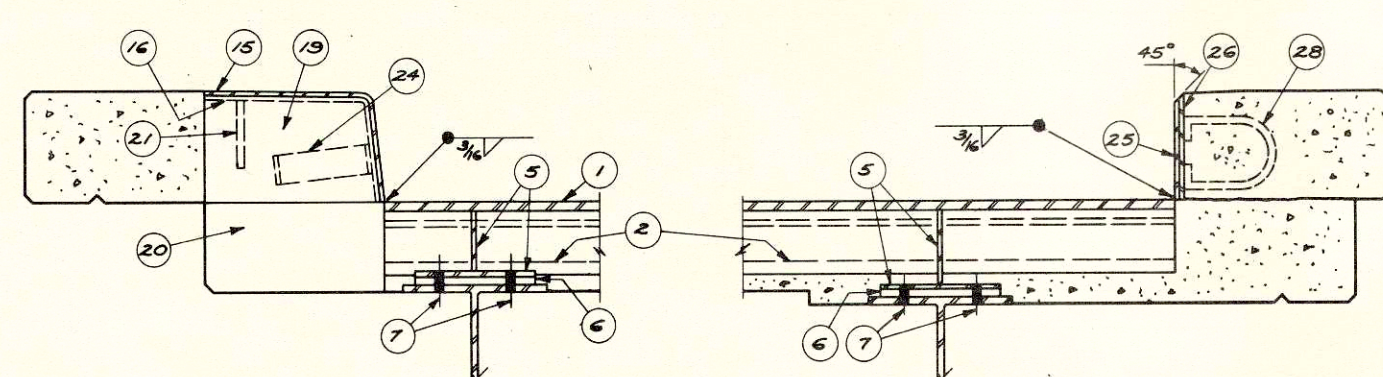


SECTION E 2



SECTION E 1

CONST. JOINT - POUR CONC. ABOVE THIS LINE AFTER SUPERSTRUCTURE CONC. IS IN PLACE. LEAVE JOINT ROUGH.



SECTION THRU JOINT AT CURB

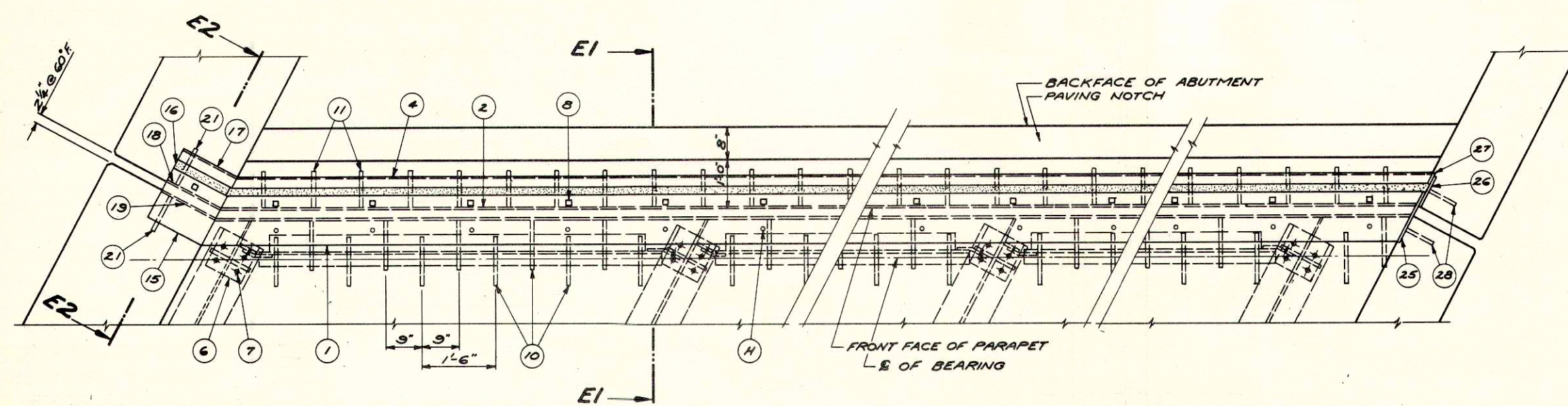
SECTION THRU JOINT AT BRUSH BACK TYPE CURB

NOTES

EXPANSION JOINT SHALL BE BUILT TO CONFORM TO ROADWAY CROWN AND GRADE. ONE FIELD SPLICE WILL BE PERMITTED.

AFTER CONCRETE HAS SET REMOVE BOLTS #8 & #14 AND FILL HOLES WITH HOT POURED ELASTIC TYPE JOINT SEALER WHICH CONFORMS TO ASTM DESIGNATION, D1190.

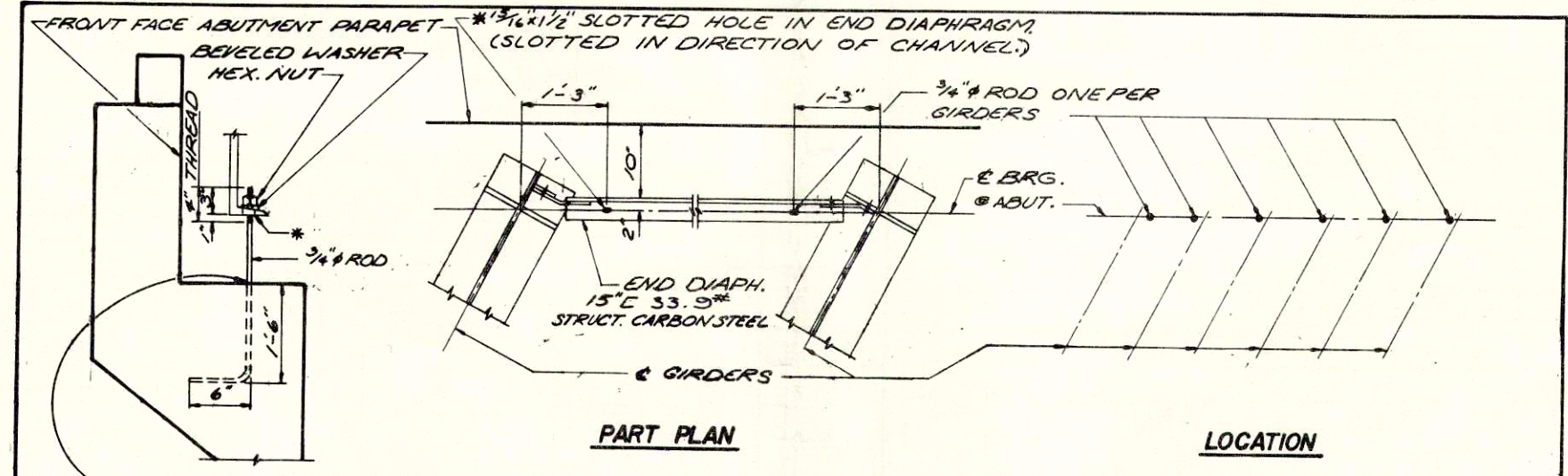
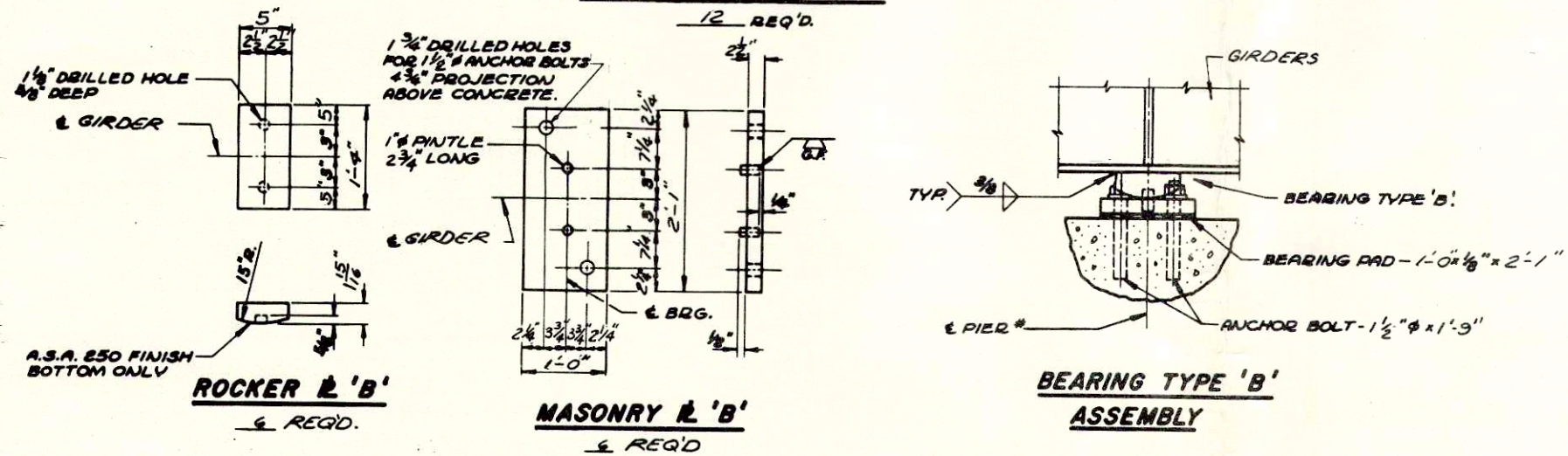
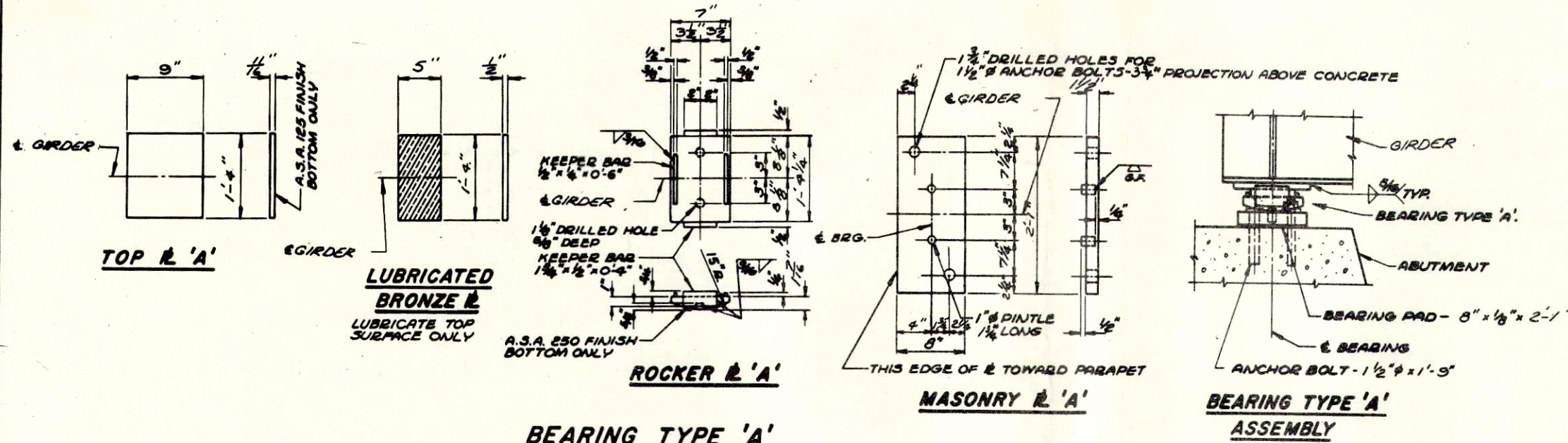
AFTER CONCRETE HAS SET THE JOINT OPENING SHALL BE THOROUGHLY CLEANED. APPLY 1/16\"/>



PART PLAN
SHOWING NORTH ABUTMENT
SOUTH ABUTMENT SIMILAR

REVISION	STATE HIGHWAY COMMISSION OF WISCONSIN		
	EXPANSION JOINTS		
	DESIGN SPEC. A.A.S.H.O. 67	LOADING MS20	CONC. SPEC. 1963
	DATE 11-25-64	DESIGN STD.	DRAWN BW
STRUCTURE	B-32-55	SHEET	4 OF 13

E. P. R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	I-90-1(2)3	30	136



TEMPORARY HOLD DOWN DEVICE
& REQ'D PLACE TEMPORARY HOLD DOWN DEVICES AT ABUTMENT WHERE FLOOR POUR TERMINATES.

AFTER SUPERSTRUCTURE CONCRETE IS POURED BURN OFF BAR FLUSH WITH CONCRETE SURFACE.

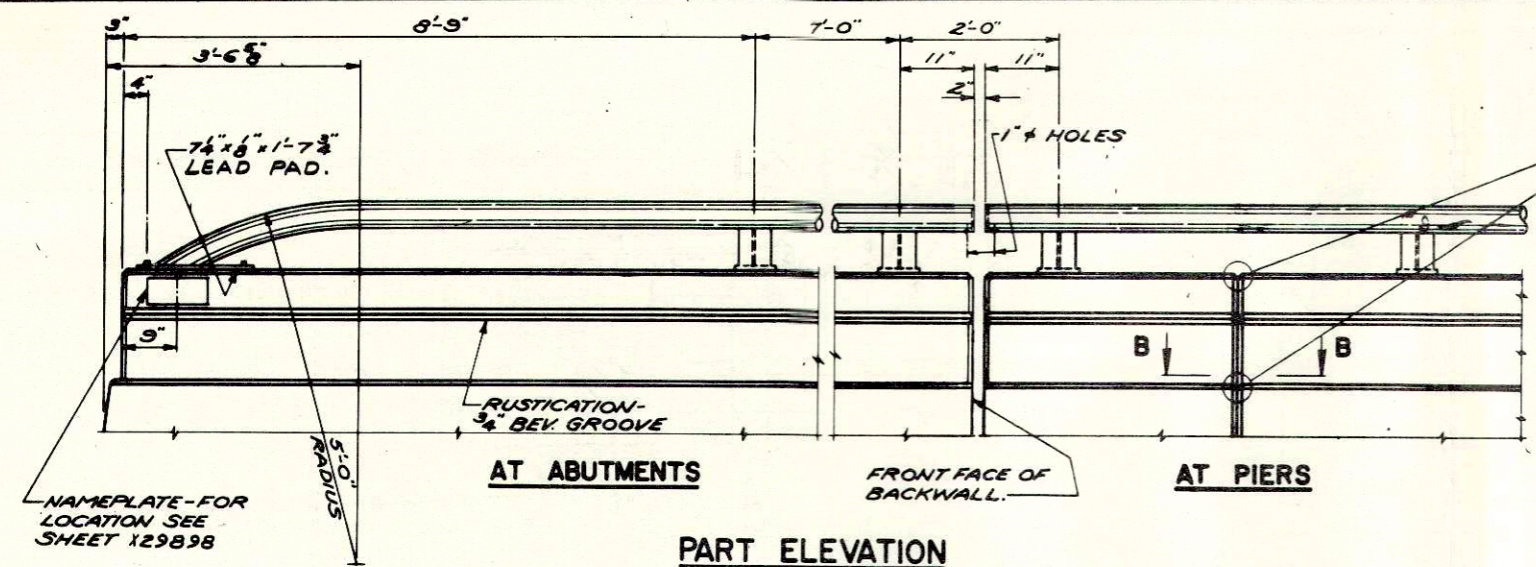
NOTE: TOP PLATE OF EXPANSION BEARING TO BE FINISHED IN DIRECTION OF MOVEMENT.

BEARING NOTES

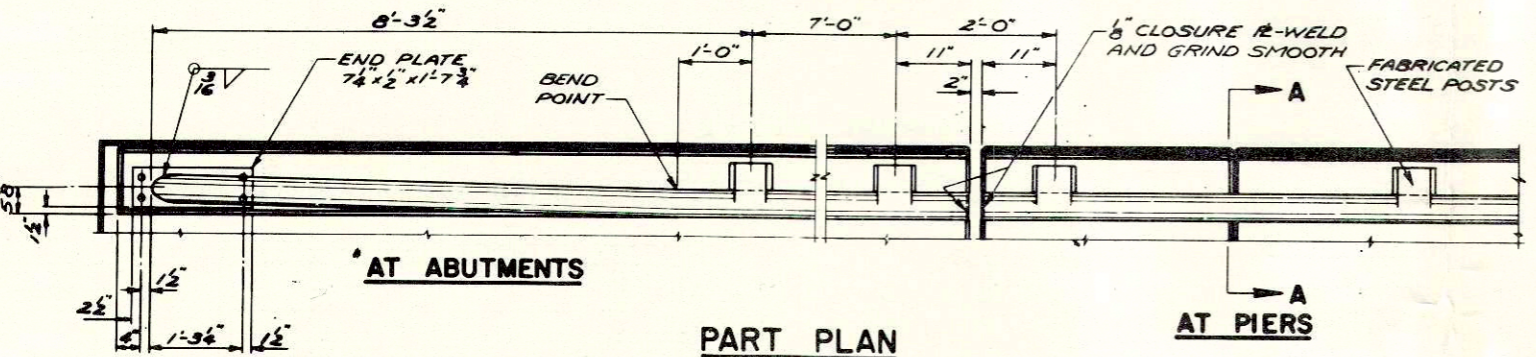
- ALL STRUCTURAL STEEL BEARING PLATES SHALL BE FLAT ROLLED STEEL PLATES WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL.
- ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.
- ALL SURFACE MARKED "S" SHALL BE MACHINE FINISHED.
- ANCHOR BOLTS SHALL BE THREADED 3". PROVIDE ONE STANDARD WROUGHT WASHER AND ONE HEX. NUT PER BOLT.
- ALL MATERIAL INCLUDING SHIMS BUT EXCLUDING ANCHOR BOLTS, NUTS AND WASHERS SHALL BE MADE OF A 242 STEEL WITH A CORROSION RESISTANCE OF 4 OR MORE TIMES THAT OF A36 STEEL.
- THE TOP 4-1/2" OF ANCHOR BOLTS, WASHERS AND NUTS SHALL BE GALVANIZED.
- ALL MATERIAL IN BEARINGS, EXCLUDING BRONZE PLATES AND BEARING PADS SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "STRUCTURAL LOW ALLOY STEEL."
- CHAMFER TOP OF PINTLES 1/8". DRILL HOLES FOR PINTLES IN ALL MASONRY PLATES FOR DRIVING FIT.

REVISED	STATE HIGHWAY COMMISSION OF WISCONSIN		
	BEARING DETAILS		
	DESIGN SPEC. A.A.S.N.O. 61	LOADING HS 20	CONTR. SPEC. 1963
	DATE 1/25/64	DESIGN G.B.N.	DRAWN G.P.R. CON. 03
STRUCTURE	B-32-55	SHEET	5 OF 13

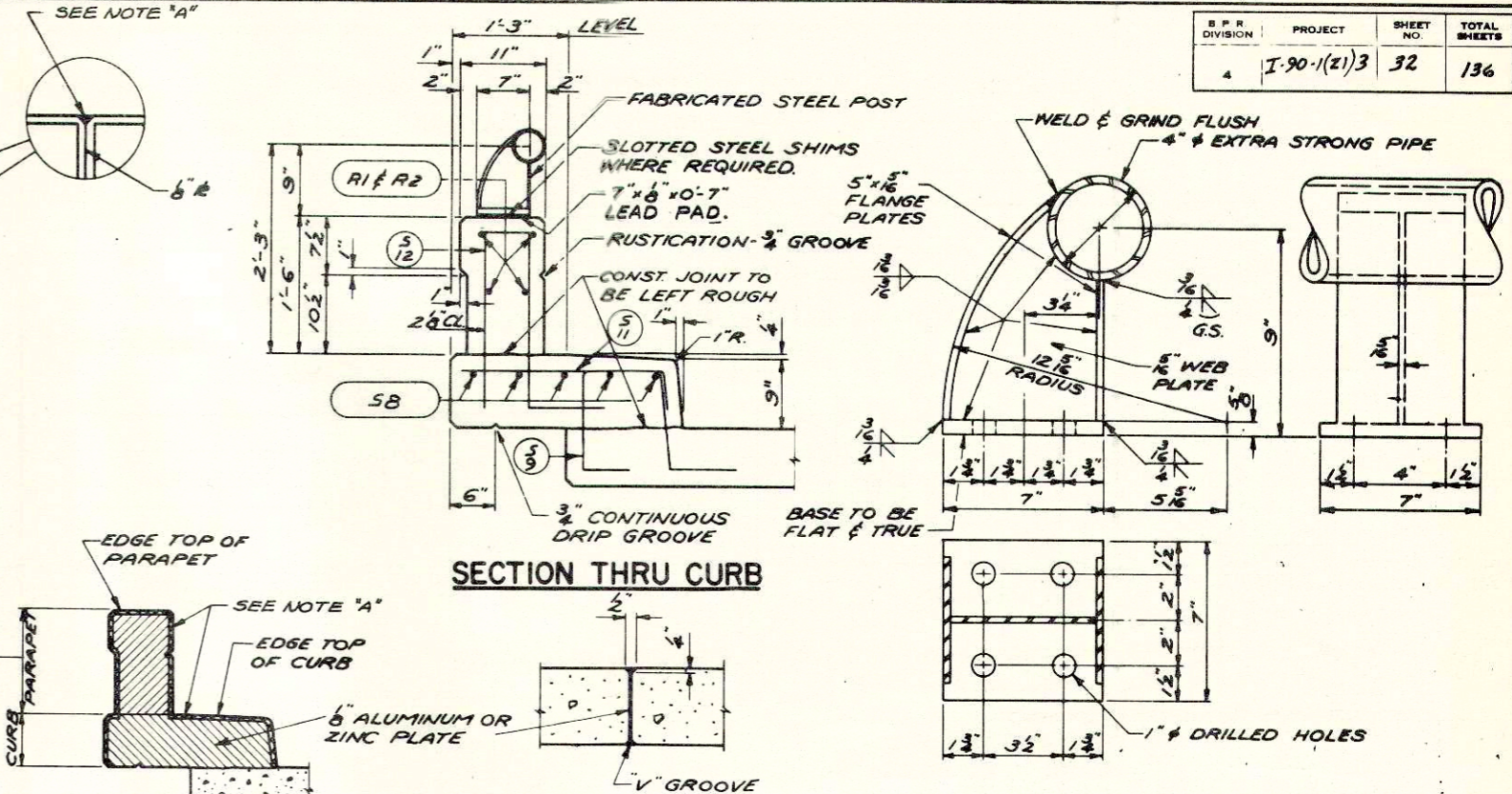
B.P.R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	I-90-1(2)3	32	136



PART ELEVATION



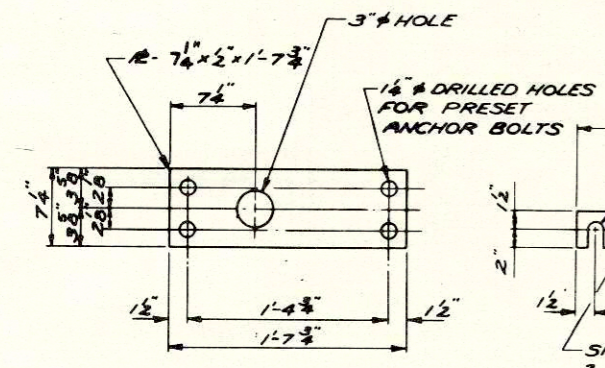
PART PLAN



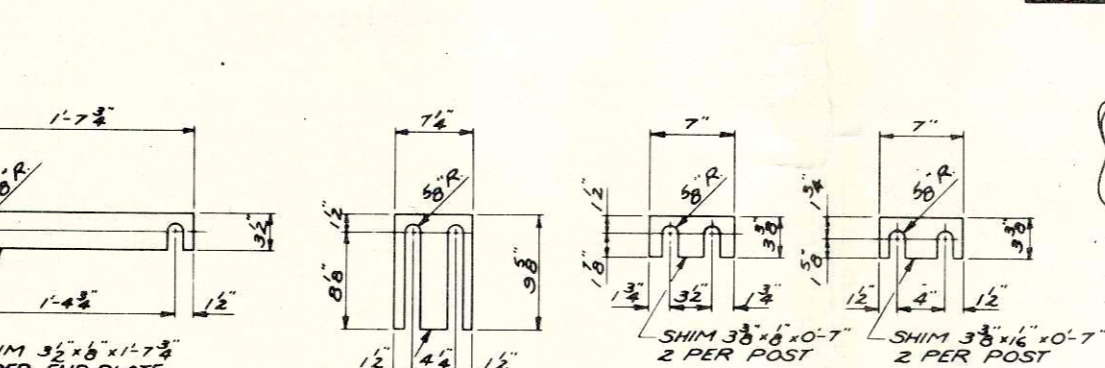
SECTION THRU CURB

SECTION B

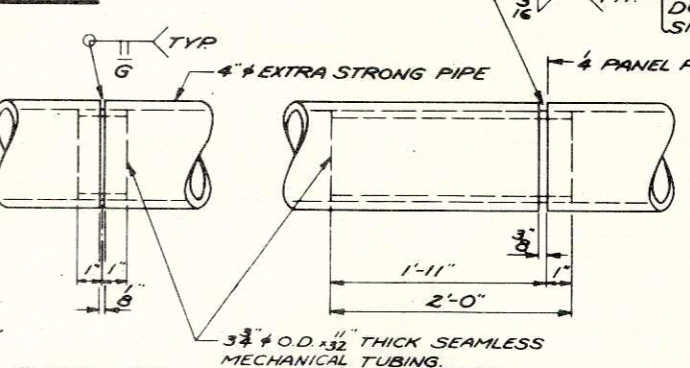
POST DETAILS



END PLATE

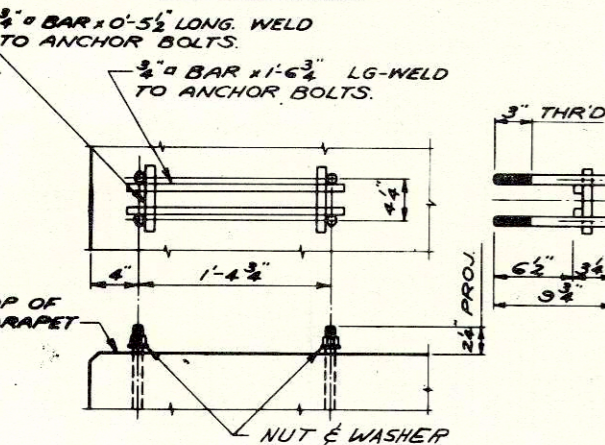


POST SHIM DETAILS

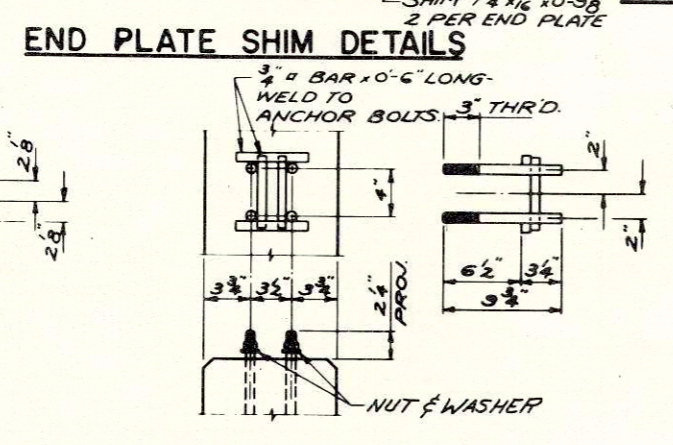


SHOP RAIL SPLICE DETAIL

FIELD ERECTION JOINT DETAIL



AT END PLATE



AT POSTS

ANCHOR BOLT SETTING DETAILS

THE SHANK AND ROOT OF THREAD DIAMETER FOR ANCHOR BOLTS SHALL BE A MINIMUM OF 0.62 INCHES.

SLEEVE SHALL BE WELDED TO DOWNGRADE SIDE OF JOINT.

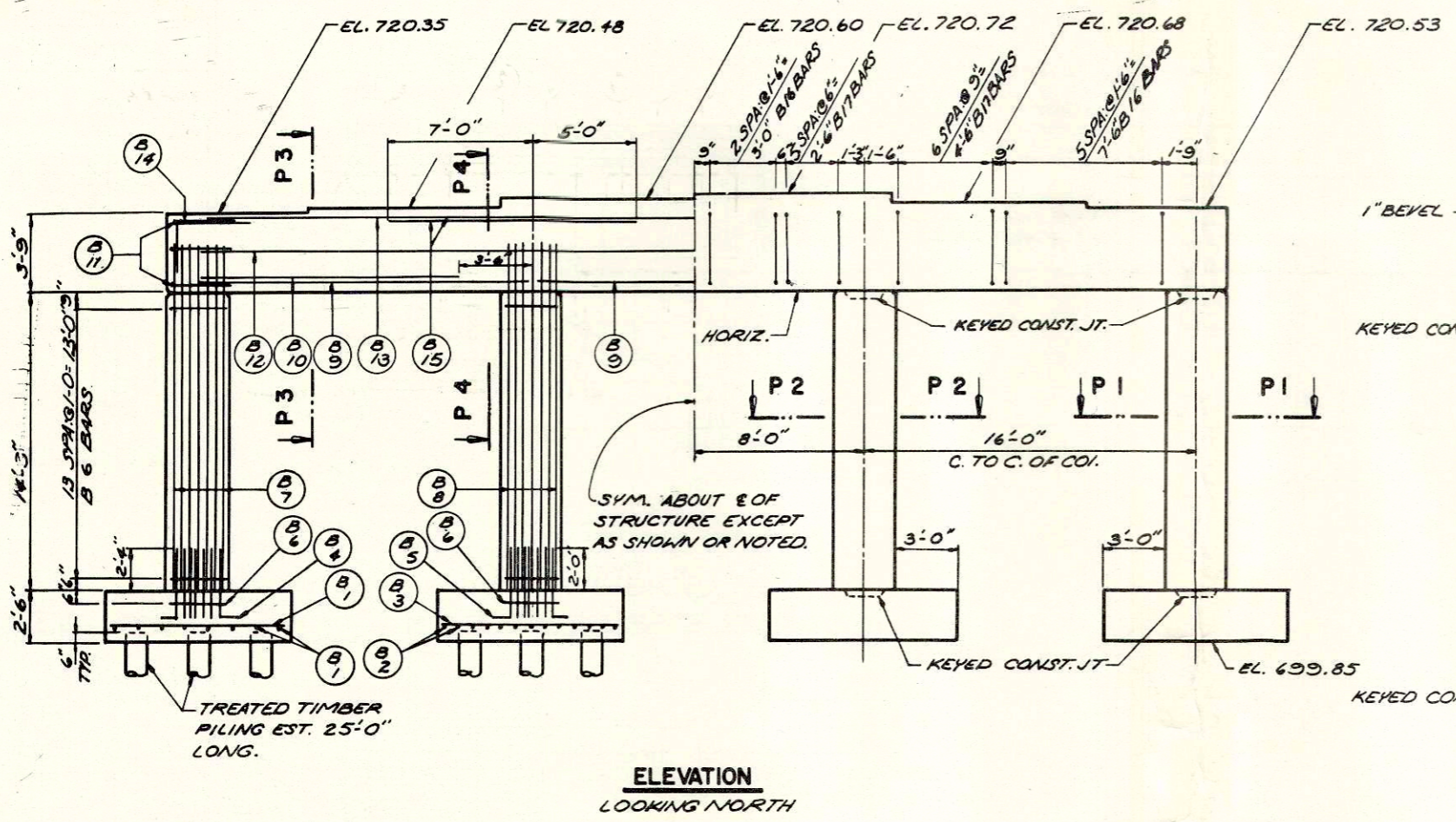
NOTES

1. STEEL RAIL POSTS SHALL BE SET NORMAL TO GRADE.
2. RAILING SHALL BE FABRICATED IN 2 & 3 PANEL LENGTHS.
3. STEEL SHIMS SHALL BE USED UNDER POSTS AND UNDER END PLATES WHERE REQUIRED FOR ALIGNMENT.
4. WHEN PARAPETS AND CURBS ARE POURED CONTINUOUSLY FROM END TO END THEY SHALL BE SEPARATED AT THE DEFLECTION JOINTS BY A PIECE OF 6 ZINC OR ALUMINUM PLATE CUT AS SHOWN IN SECTION 'A' BY SHADED AREA. IF CONSTRUCTION JOINTS IN PARAPETS AND CURBS ARE USED AT THE DEFLECTION JOINTS ONE SIDE OF JOINT SHALL BE COATED WITH BITUMINOUS PAINT AND PLATE SEPARATORS MAY BE OMITTED.
5. THE FOLLOWING MATERIALS SHALL BE USED:
 RAILING SHALL BE 4" EXTRA STRONG PIPE CONFORMING TO ASTM DESIGNATION A53, GRADE B.
 SLEEVES SHALL BE 3 1/2" O.D. X 1/2" THICK SEAMLESS MECHANICAL TUBING MADE OF STEEL WITH A MINIMUM ULTIMATE TENSILE STRENGTH OF 60,000 P.S.I. AND A MINIMUM ELONGATION OF 10%.
 POSTS SHALL BE FABRICATED FROM MATERIAL CONFORMING TO ASTM DESIGNATION A36.
 ANCHOR BOLTS TO BE MADE FROM MATERIAL CONFORMING TO ASTM A307.
 6. CAULK EXPOSED OPENINGS BETWEEN SHIMS WITH LEAD WOOL.
 7. GALVANIZE ENTIRE RAILING AFTER FABRICATION INCLUDING NUTS, WASHERS, SHIMS AND TOP 3/2" OF ANCHOR BOLTS.

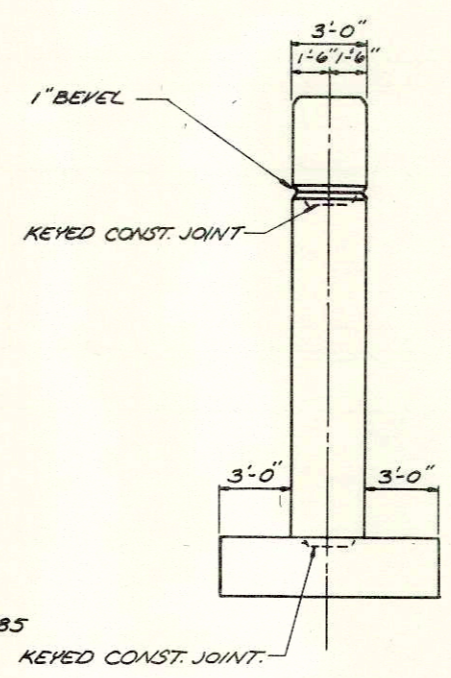
NOTE 'A': FILL WITH NON-STAINING GRAY TWO COMPONENT POLYSULFIDE LIQUID POLYMER (GAL) GRADE WITH SURFACE PRIMER, MEETING APPROVAL OF THE ENGINEER.

DESIGNED	STATE HIGHWAY COMMISSION OF WISCONSIN
TUBULAR STEEL RAILING	
TYPE 'G'	
DESIGN SPEC. A.A.S.H.O. 5/	LOADING
DATE 11-25-64	DESIGN G.N.
DRAWN B.R.D.	CHK. E.J.
STRUCTURE B-32-55	SHEET 7 OF 13

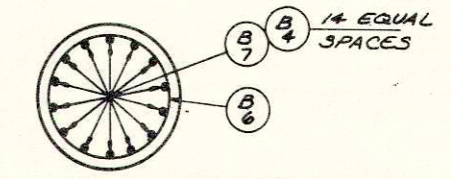
B.P.R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	I-90-1(2)3	34	136



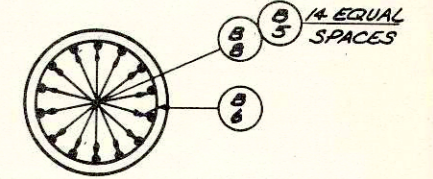
ELEVATION
LOOKING NORTH



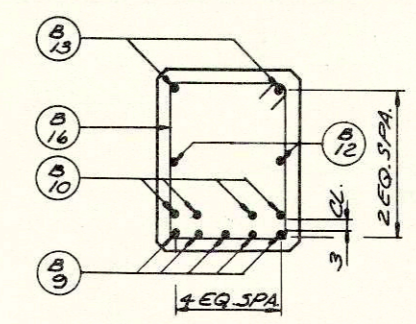
END VIEW



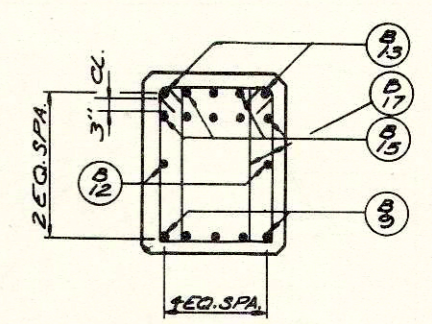
SECTION P1



SECTION P2

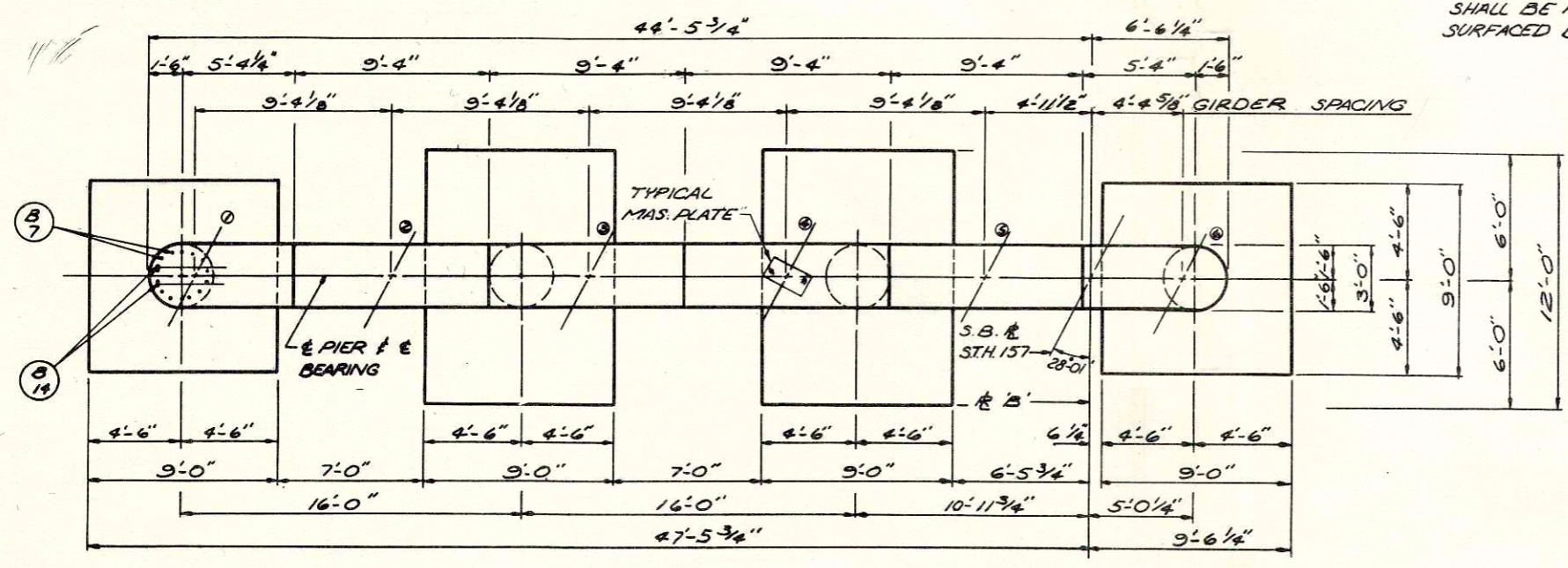


SECTION P3

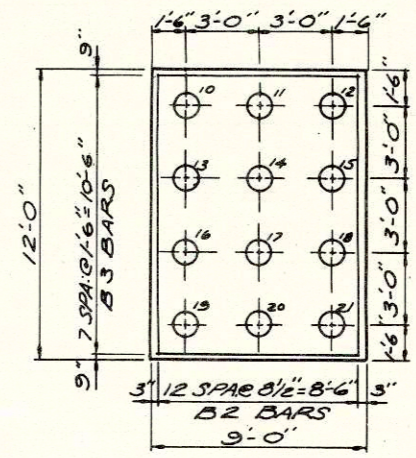


SECTION P4

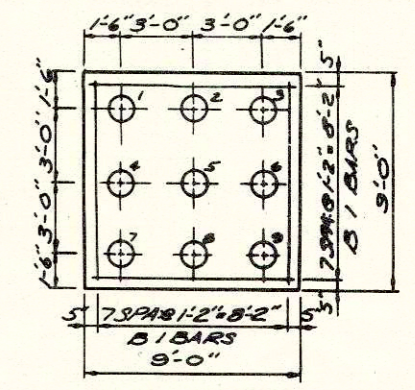
NOTE:
ALL KEYED CONST. JOINTS
SHALL BE FORMED BY A
SURFACED BEVELED 1'-6\"/>



PLAN



TYPICAL INT. FOOTING



TYPICAL EXT. FOOTING

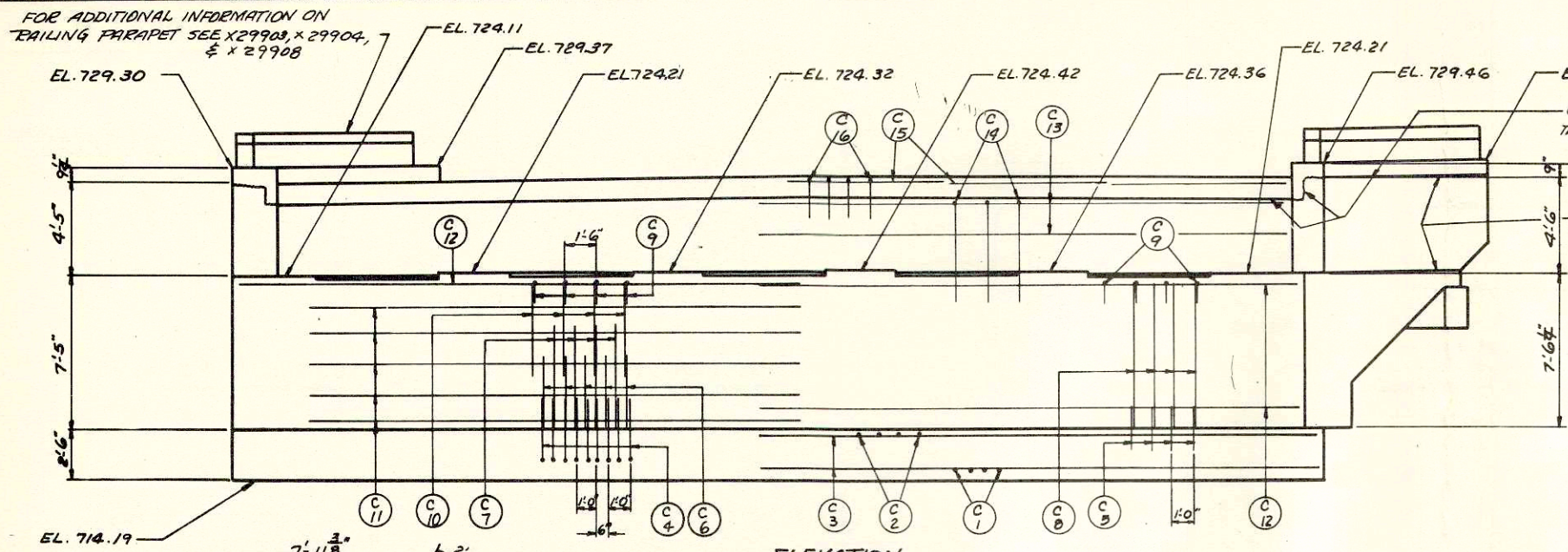
CONCRETE MASONRY

FOOTINGS	35.0 C.Y.
COLUMNS	15.0 C.Y.
CAP	22.0 C.Y.
TOTAL	72.0 C.Y.

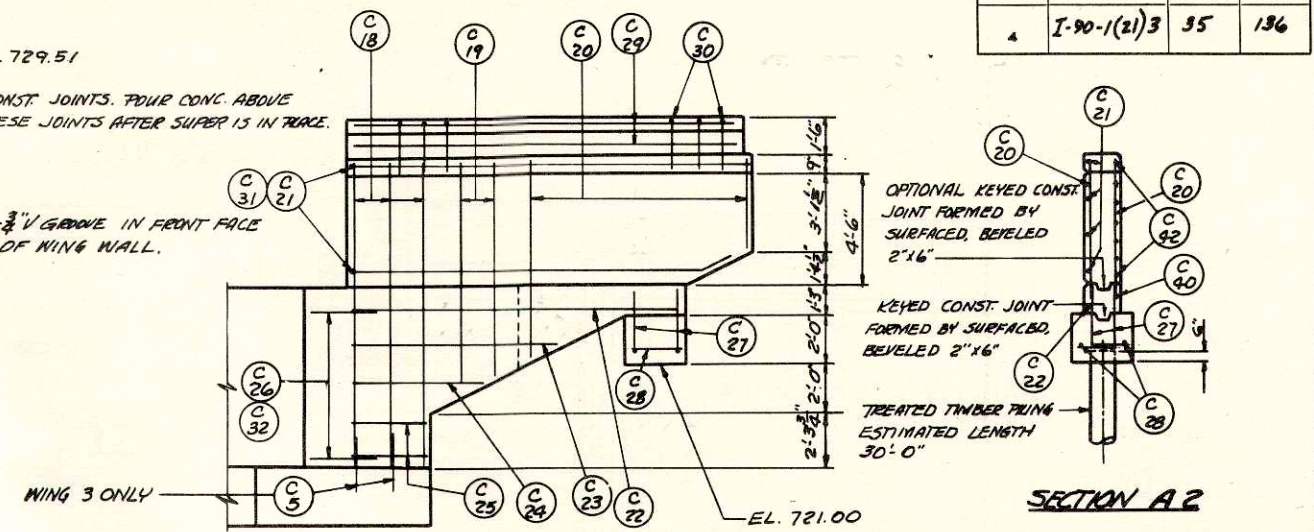
PART FOOTING PLAN

REVISED	STATE HIGHWAY COMMISSION OF WISCONSIN		
	PIER		
	DESIGN SPEC. A.A.S.H.O. '61	LOADING HS20	CONST. SPEC. 1963
	DATE 11/25/64	DESIGN G.B.N.	DRAWN G.T.R. CKD. BY
STRUCTURE B - 32-55		SHEET 9 OF 13	

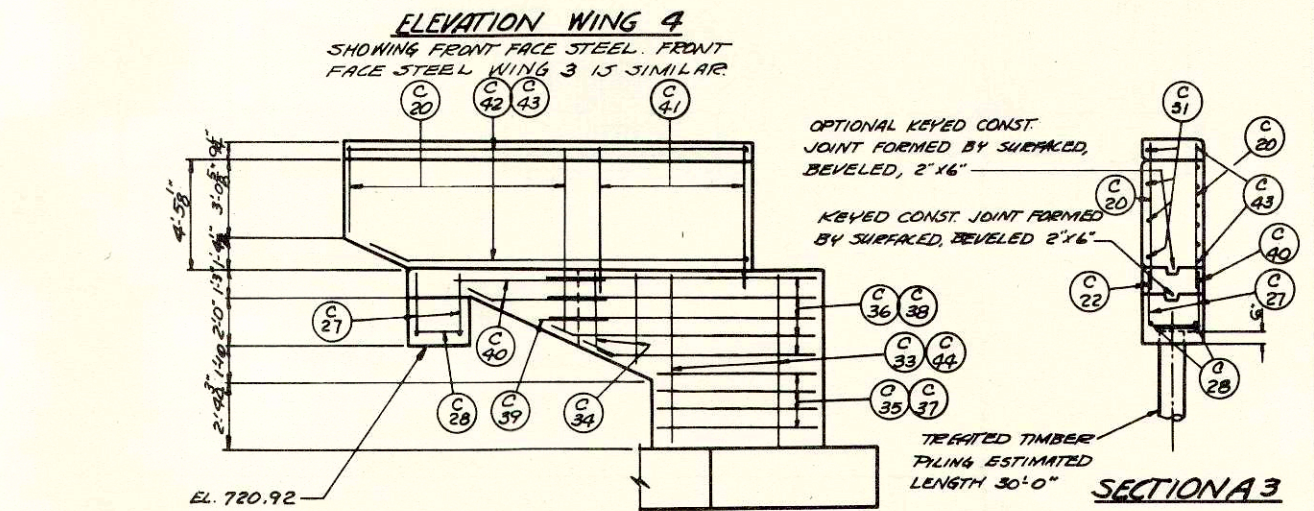
R. P. R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	I-90-1(21)3	35	136



ELEVATION

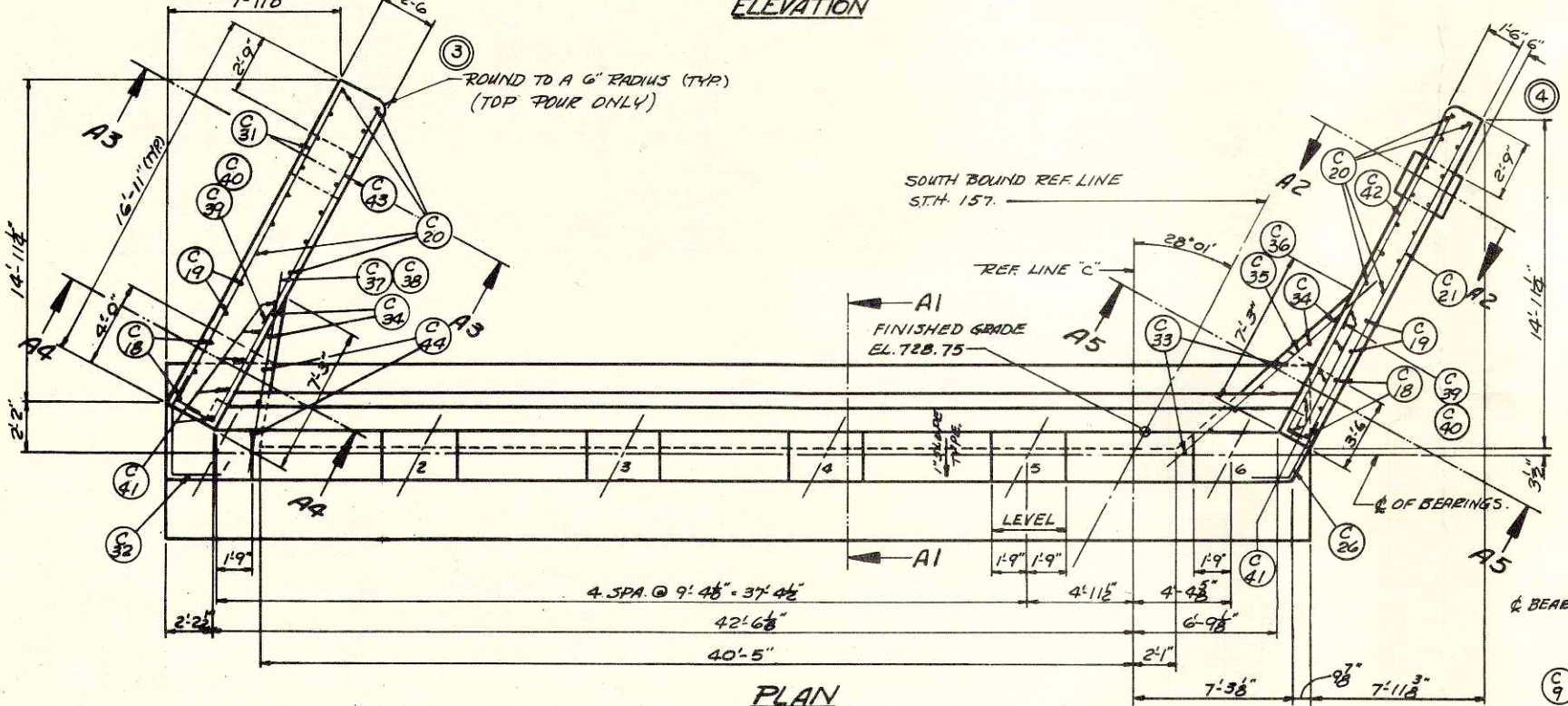


SECTION A2

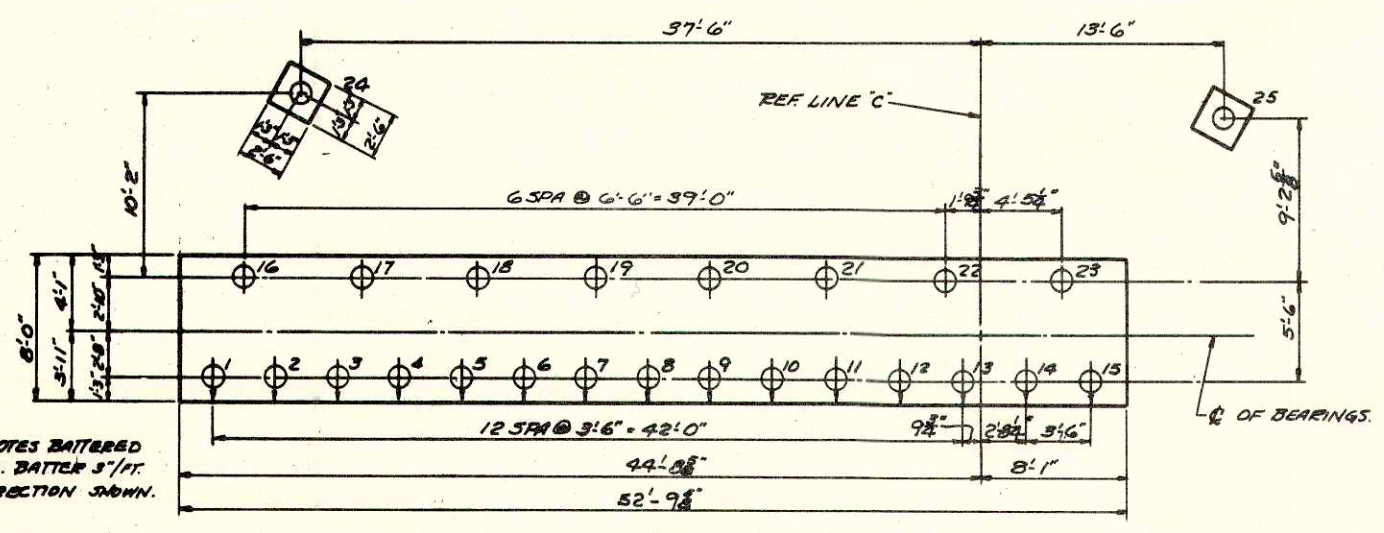


ELEVATION WING 3

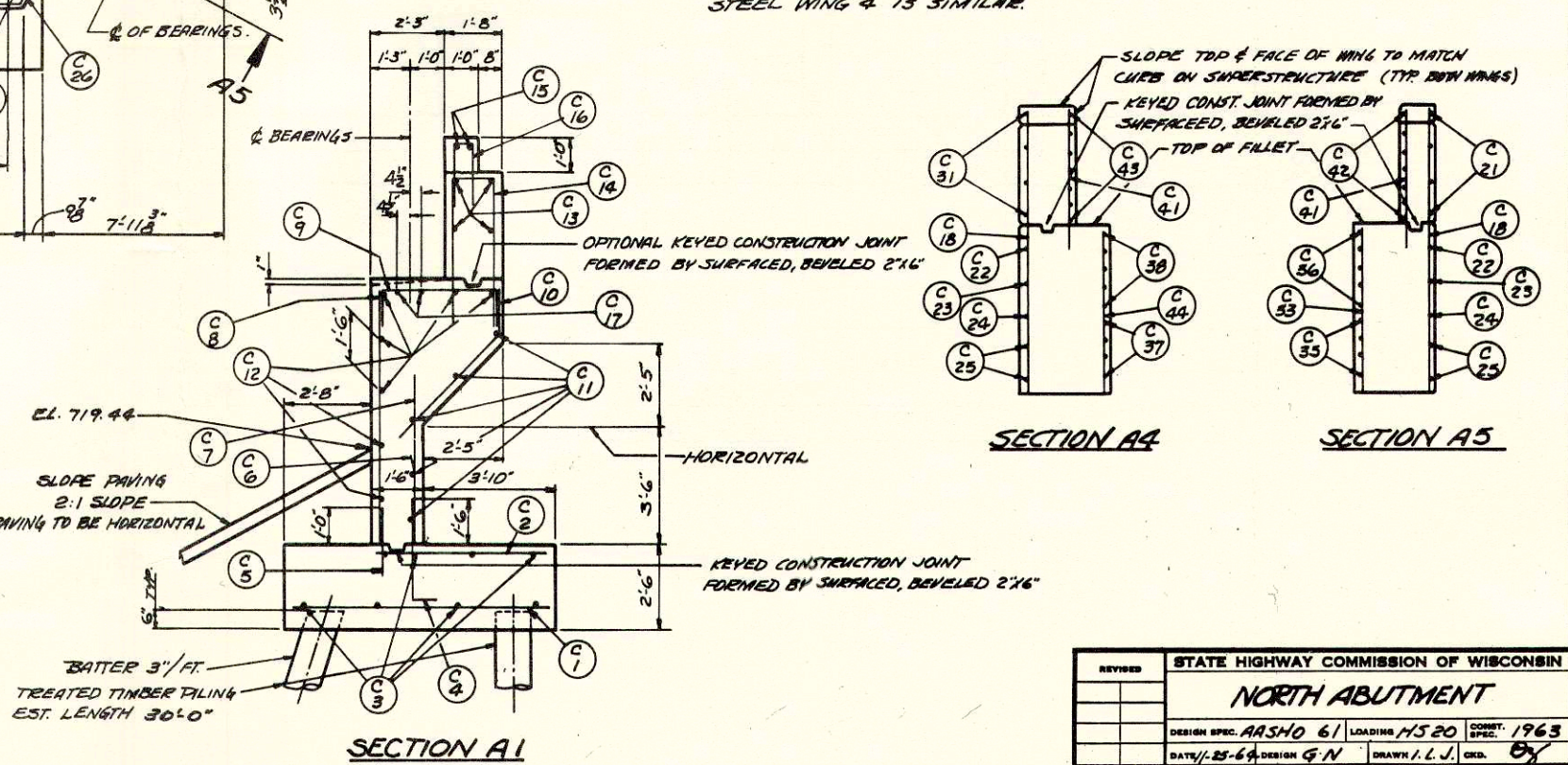
SECTION A3



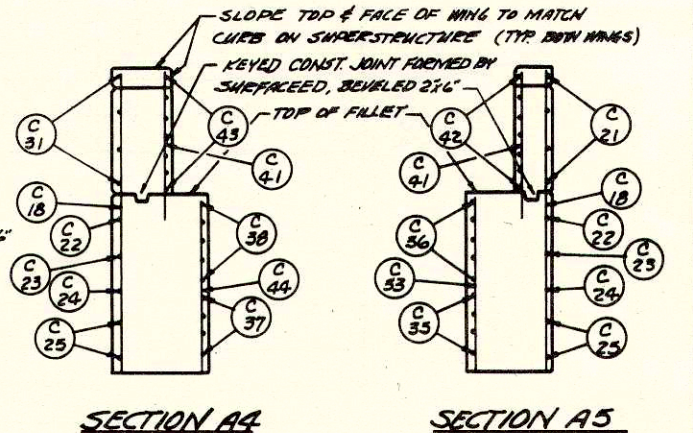
PLAN



FOOTING PLAN



SECTION A1



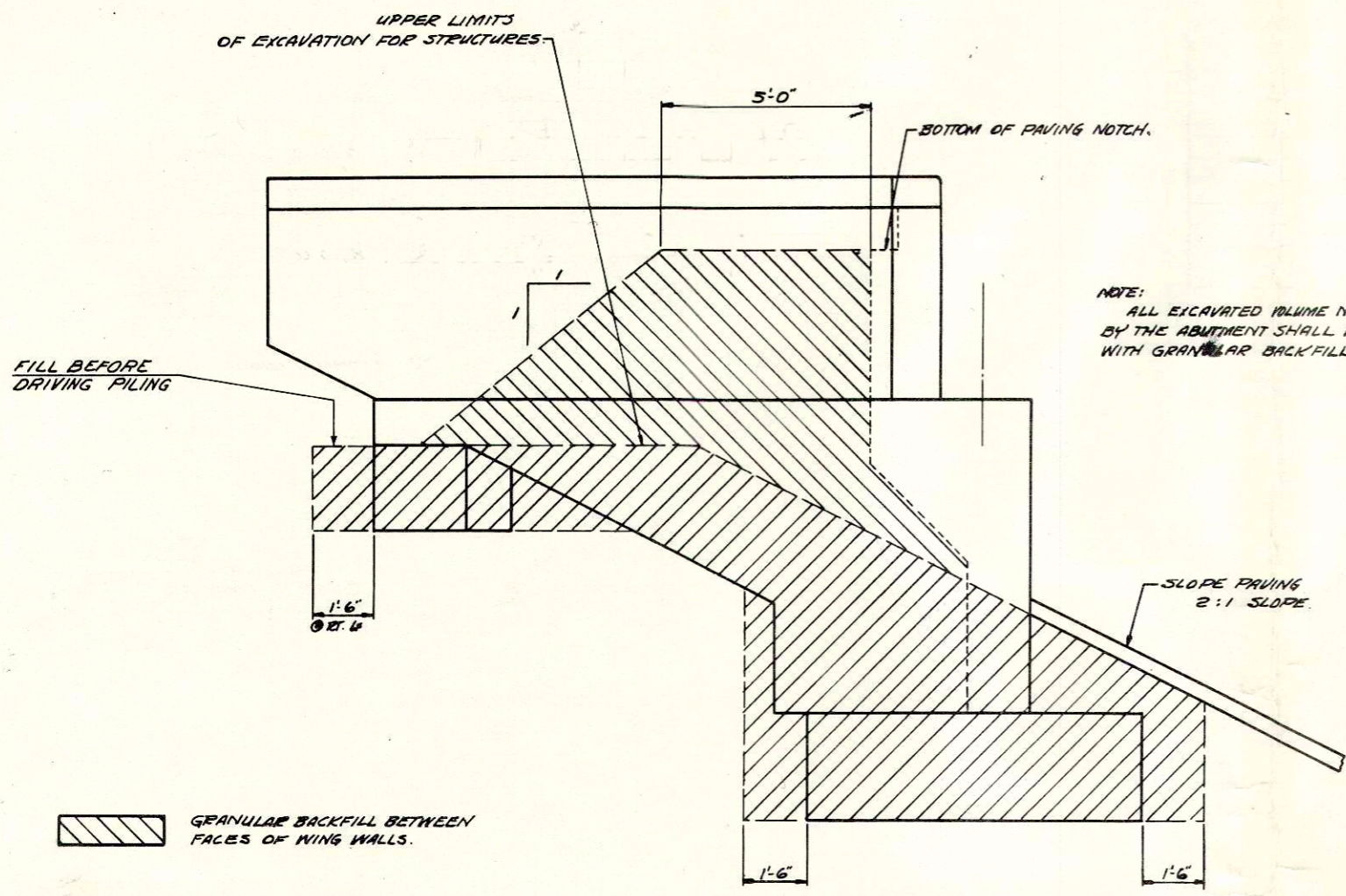
SECTION A4

SECTION A5

⊕ DENOTES BATTERED PILES. BATTER 3\"/>

REVISED	STATE HIGHWAY COMMISSION OF WISCONSIN		
	NORTH ABUTMENT		
	DESIGN SPEC. AASHO 61	LOADING H520	CONC. SPEC. 1963
	DATE: 12-64	DESIGN: G.N.	DRAWN: I.L.J. CRD. BY
STRUCTURE B-32-55		SHEET 10 OF 13	

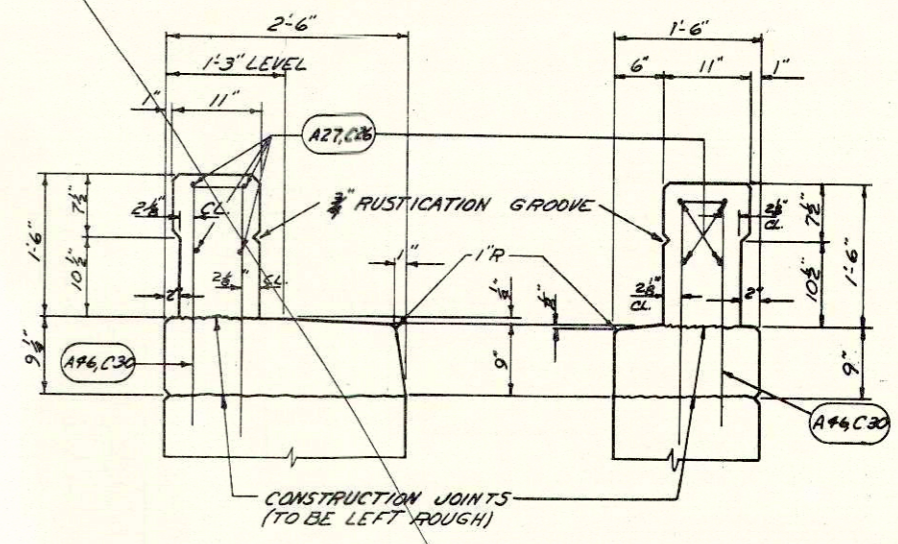
S. P. R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	I-90-(21)3	36	136



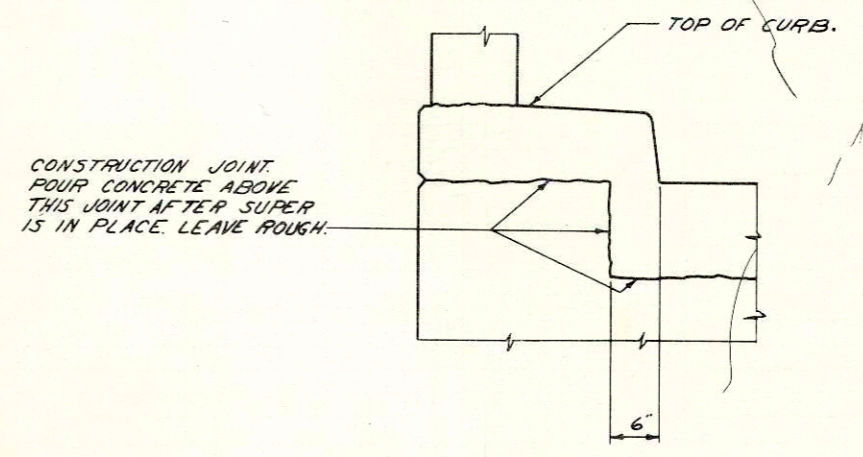
NOTE: ALL EXCAVATED VOLUME NOT OCCUPIED BY THE ABUTMENT SHALL BE BACKFILLED WITH GRANULAR BACKFILL.

- GRANULAR BACKFILL BETWEEN FACES OF WING WALLS.
- EXCAVATION FOR STRUCTURES & GRANULAR BACKFILL.

PAY LIMITS FOR EXCAVATION FOR STRUCTURES & GRANULAR BACKFILL.



SECTION THRU RAILING PARAPET



CURB DETAIL

REVISED	STATE HIGHWAY COMMISSION OF WISCONSIN		
	ABUTMENT DETAILS		
	DESIGN SPEC. AASHO 61	LOADING HS 20	CONSTR. 1963
	DATE 1-25-68	DESIGN STD.	DRAWN ARB CD. B
STRUCTURE B-32-55		SHEET 11 OF 13	

X29908

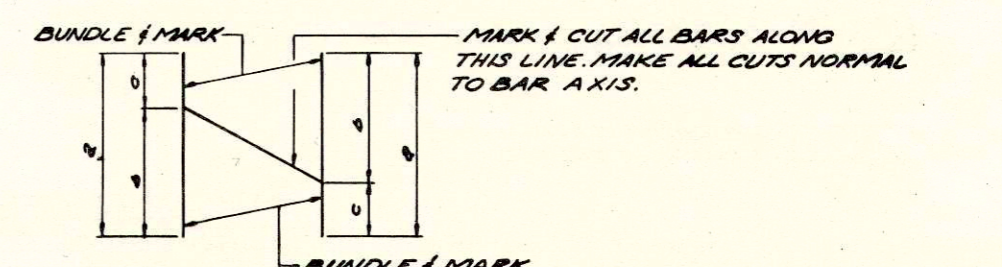
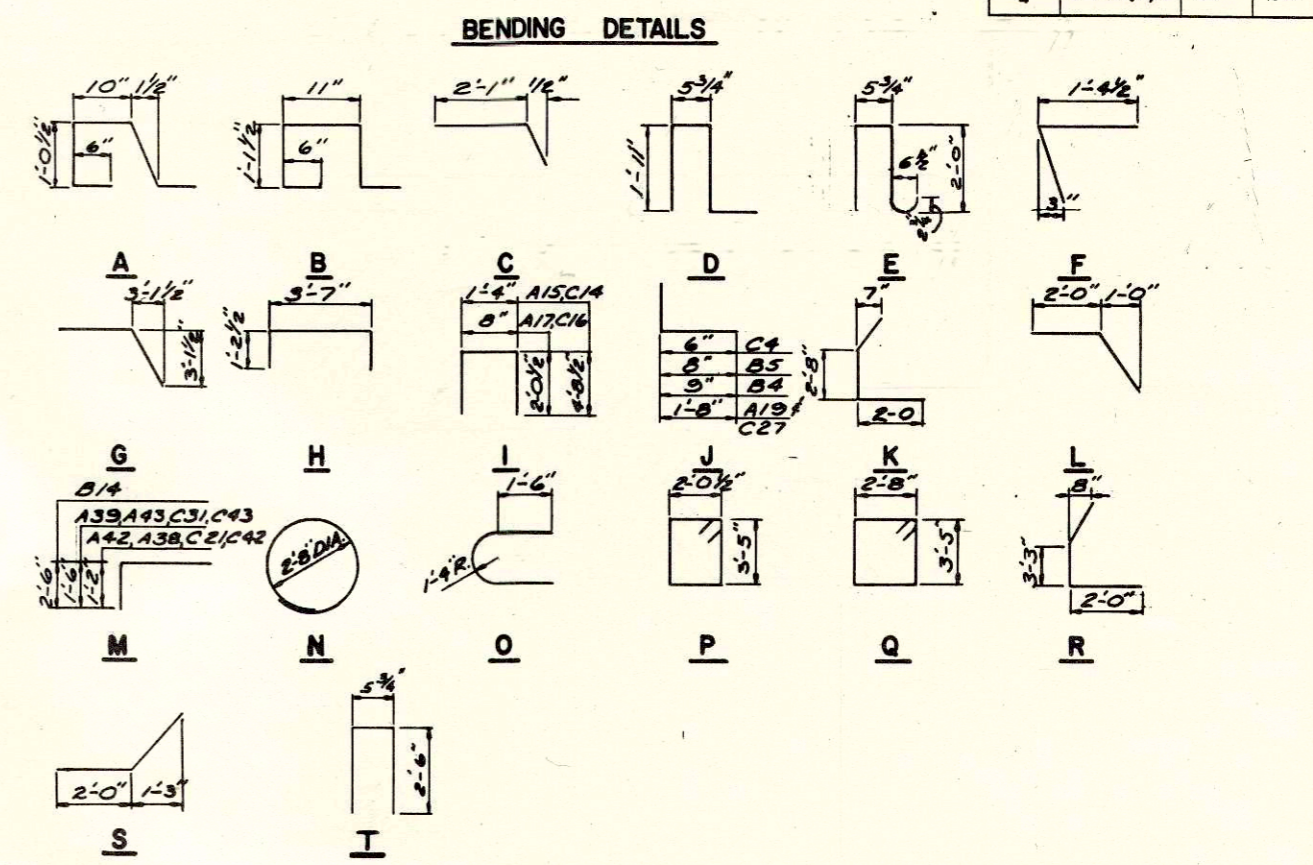
BILL OF BARS

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT.

S.P.R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	I-90-1(2)3	37	136

MARK	NO.	SIZE	LENGTH	SPACING	LOCATION	DET.
S 1	408	6	32-3	0-6 1/2	SLAB TOP	
S 2	407	6	32-3	0-6 1/2	" BOTTOM	
S 3	408	6	21-0	0-6 1/2	" TOP	
S 4	407	6	21-0	0-6 1/2	" BOTTOM	
S 5	228	5	38-0	SHOWN	" TOP	
S 6	324	5	38-0	"	" BOTTOM	
S 7	12	5	15-0	"	" SYM. ABOUT PIER	
S 8	42	5	37-9	± 6	CURB	
S 9	224	5	4-9	1-0	" 1/2 SLAB	A
S 10	224	5	4-9	1-0	" " "	B
S 11	224	6	2-6	1-0	" " "	C
S 12	224	5	5-0	1-0	" RAILING PARAPET	D
S 13	224	5	5-0	1-0	" " "	E
S 14	60	5	2-9	1-6	END OF FLOOR	F
S 15	70	4	9-0	SHOWN	" DIAPHRAGM	
R 1	16	5	19-6	1-0	RAILING PARAPET	
A 2	64	5	22-6	1-0	" " "	
A 1	63	6	7-6	0-10	FOOTING	
A 2	16	4	26-9	SHOWN	" " "	
A 3	53	4	4-9	1-0	" " "	
A 4	52	4	2-0	1-0	" 1 BODY	
A 5	85	6	3-0	0-6	" " "	
A 6	2	4	2-0	1-6	" " WING 1	
A 7	52	4	7-3	1-0	BODY	
A 8	14	4	27-0	± 1-6	" " "	
A 9	12	4	4-0	0-9	GIRD-SYM. ABOUT & GIRDER	
A 10	43	6	5-0	1-0	BODY	
A 11	42	6	3-9	1-0	" " "	
A 12	28	5	5-9	1-6	" " "	
A 13	10	4	22-9	± 1-6	" " "	G
A 14	35	5	6-0	1-6	" " "	H
A 15	83	5	10-9	1-6	" PARAPET	I
A 16	8	4	26-0	SHOWN	" " "	
A 17	49	5	4-9	1-0	PAVING BLOCK	J
A 18	14	4	7-0	SHOWN	" " "	
A 19	8	4	4-3	"	WING FOOTINGS	J
A 20	4	4	2-3	"	" " "	
A 21	5	4	5-9	1-6	" 1 CORNER	K
A 22	5	4	4-0	1-6	" 2 "	L
A 23	4	4	3-3	1-6	" 1 1/2 F.F.	
A 24	2	4	7-0	1-6	" " "	
A 25	2	4	10-0	1-6	" " "	
A 26	2	4	13-6	1-6	" " "	
A 27	4	4	6-0	0-9	" 2 B.F.	
A 28	4	4	4-6	0-9	" 1 "	
A 29	5	4	11-6	0-9	" 2 "	
A 30	6	4	9-0	0-9	" 1 "	
A 31	3	4	7-3	1-6	" 1 "	
A 32	4	4	7-0	1-6	" 2 "	
A 33	4	4	4-0	1-6	" 1 1/2 "	
A 34	2	4	5-3	0-9	" " "	
A 35	4	4	9-0	0-9	" " "	
A 36	14	4	11-6	1-6	" " " 1/2 F.F.	*
A 37	10	4	6-0	1-6	" " "	
A 38	7	4	17-9	0-9	" 1 "	M
A 39	7	4	18-0	0-9	" 2 "	M
A 40	3	4	12-3	1-6	" 2 F.F.	
A 41	3	4	12-6	1-6	" 1 "	
A 42	4	4	17-9	1-6	" 1 "	M
A 43	4	4	18-0	1-6	" 2 "	M
A 44	4	4	9-0	1-6	" 1 1/2 "	
A 45	8	5	16-3	SHOWN	RAILING PARAPET	
A 46	36	5	5-6	1-0	" " "	T

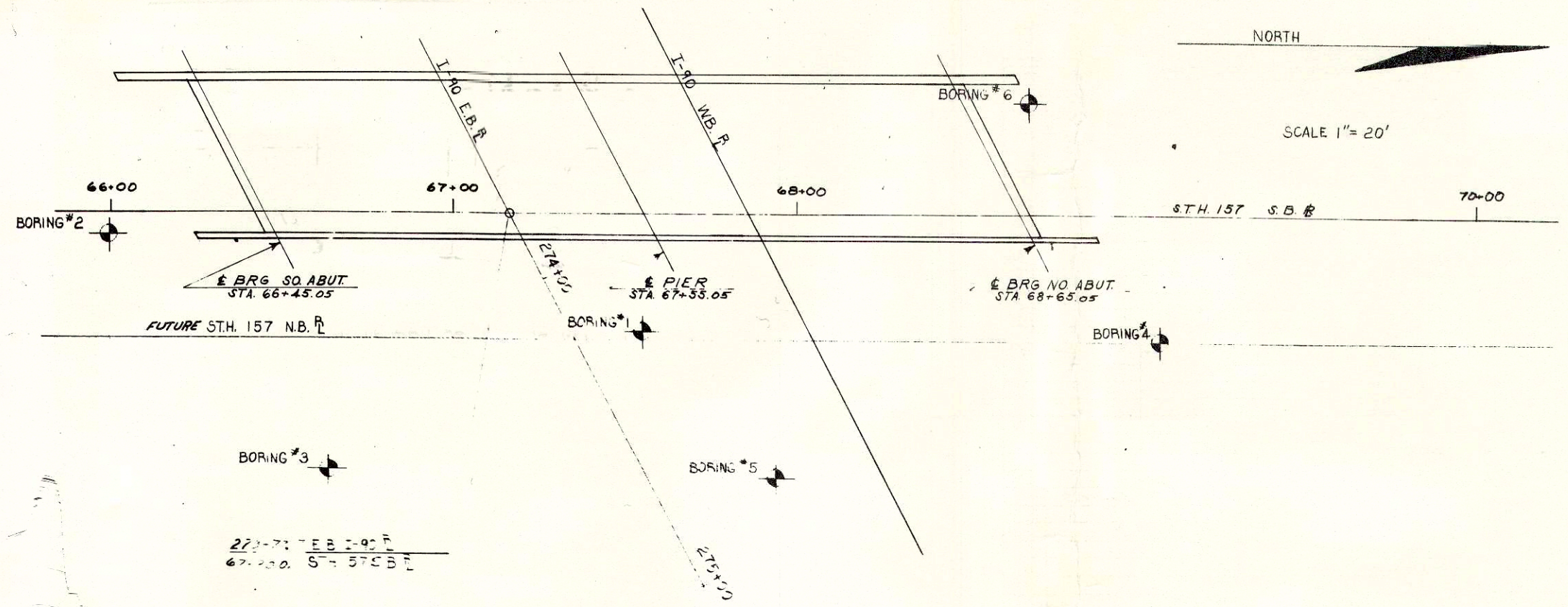
MARK	NO.	SIZE	LENGTH	SPACING	LOCATION	DET.
B 1	32	8	8-6	SHOWN	FOOTING EXT.	
B 2	26	9	11-6	"	" INT.	
B 3	16	9	8-6	"	" " "	
B 4	28	9	4-9	"	" 1/2 COLUMNS	J
B 5	28	8	4-6	"	" " "	J
B 6	60	4	9-6	"	" " "	N
B 7	28	9	16-6	"	COLUMNS	
B 8	28	8	16-6	"	" " "	
B 9	15	9	16-0	"	CAP	
B 10	8	9	12-6	"	" " "	
B 11	6	4	7-3	"	" " "	O
B 12	4	6	25-0	"	" " "	
B 13	4	9	25-0	"	" " "	
B 14	4	9	6-3	"	" " "	M
B 15	16	9	12-0	"	" " "	
B 16	18	4	13-3	"	" SINGLE STIRRUPS	Q
B 17	52	5	12-6	"	" DOUBLE "	P
C 1	63	6	7-6	0-10	FOOTING	
C 2	52	4	4-9	1-0	" " "	
C 3	16	4	26-9	SHOWN	" " "	
C 4	86	6	3-0	0-6	" 1/2 BODY	J
C 5	54	4	2-0	1-0	" " 1/2 WINGS	
C 6	43	6	3-6	1-0	BODY	
C 7	43	6	5-0	1-0	" " "	
C 8	52	4	7-3	1-0	" " "	
C 9	35	5	6-0	1-6	" " "	H
C 10	29	5	5-9	1-6	" " "	G
C 11	10	4	22-6	± 1-6	" " "	
C 12	14	4	26-3	SHOWN	" " "	
C 13	8	4	26-0	"	" PARAPET	
C 14	33	5	10-9	1-6	" " "	I
C 15	10	4	9-9	SHOWN	PARAPET	
C 16	49	5	4-9	1-0	" " "	I
C 17	12	4	4-0	SHOWN	GRID-SYM. ABOUT & GIRDER	
C 18	6	4	12-6	1-6	WING 3 1/4 F.F.	
C 19	4	4	8-6	1-6	" " "	
C 20	14	4	11-0	1-6	" " 1/2 B.F.	*
C 21	4	4	17-9	± 1-6	" 4 "	M
C 22	2	4	13-6	1-6	" 3 1/4 "	
C 23	2	4	8-9	1-6	" " "	
C 24	2	4	6-0	1-6	" " "	
C 25	4	4	3-0	1-6	" " "	
C 26	5	4	4-9	± 1-6	" 4 CORNER	S
C 27	8	4	4-3	SHOWN	" FOOTING	J
C 28	4	4	2-3	"	" " "	
C 29	8	5	16-3	"	RAILING PARAPET	
C 30	34	5	5-6	1-0	" " "	T
C 31	4	4	18-0	± 1-6	WING 3 F.F.	M
C 32	5	4	6-8	1-6	" " CORNER	R
C 33	5	4	7-3	1-6	" 4 "	
C 34	4	4	4-6	1-6	" 3 1/4 B.F.	
C 35	4	4	7-3	0-9	" 4 "	
C 36	5	4	13-0	0-9	" " "	
C 37	4	4	5-0	0-9	" 3 "	
C 38	5	4	10-0	0-9	" " "	
C 39	2	4	5-0	0-9	" 3 1/4 "	
C 40	4	4	7-0	0-9	" " "	
C 41	10	4	6-0	1-6	" " "	
C 42	7	4	17-9	0-9	" 4 "	M
C 43	7	4	18-0	0-9	" 3 "	M
C 44	3	4	7-0	0-9	" 3 "	



BAR NO.	NO. OF BARS REQ'D	E	D	C
A 36	14 BARS	11-6	8-0	3-6
C 20	14 BARS	11-0	7-9	3-3

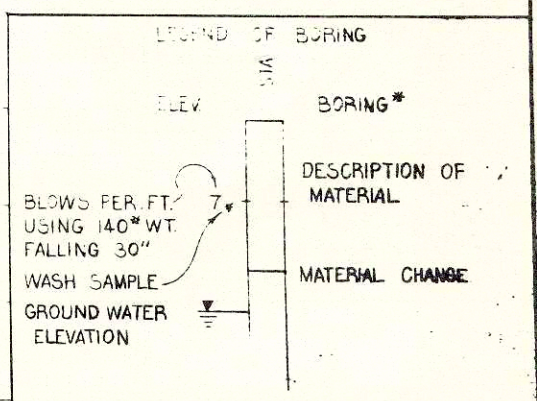
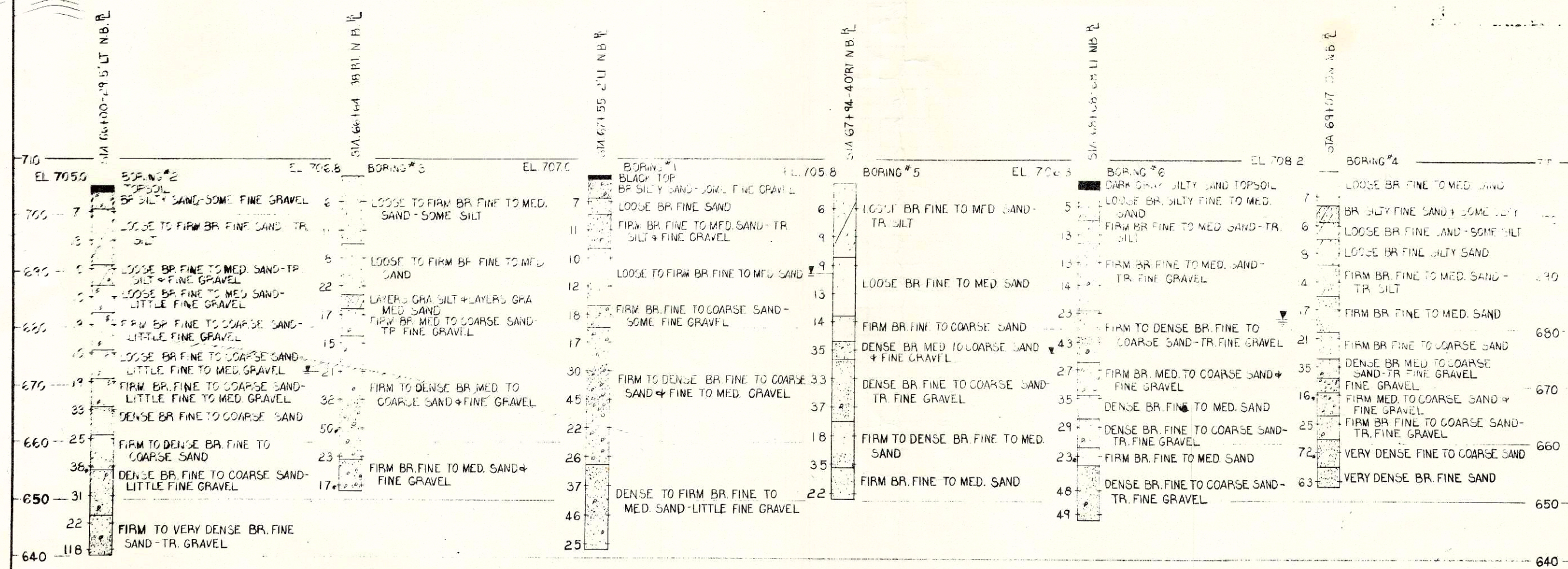
* = DENOTES CUTTING DIAGRAM.

REVISED	STATE HIGHWAY COMMISSION OF WISCONSIN		
	BILL OF BARS		
DESIGN SPEC. A.A.S.H.O. 6/1	LOADING HS 20	CONSTR. SPEC. 1963	
DATE 1/25/64	DESIGN G.R.	DRAWN J.R.	CHK. D.Y.
STRUCTURE B-32-55	SHEET 12 OF 13		



SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN

FOR THE DESIGN OF THE STRUCTURE FOUNDATION, TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UNDER WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING WITH THE LOG OF SUCH EXPLORATION DATA AS INTERPRETED FOR SUCH DESIGN PURPOSE AS SHOWN. THE EXPLORATIONS WERE MADE BY ORDINARY AND CONVENTIONAL METHODS AND CARE DEEMED ADEQUATE FOR SUCH PURPOSE. HOWEVER, SINCE IT IS A MATTER OF COMMON KNOWLEDGE THAT THE EXACT CHARACTER OF ANY MATERIAL AND ITS BEHAVIOR IS DIFFICULT TO DETERMINE FROM SUCH SUBSURFACE EXPLORATION AND THAT THE KIND AND CHARACTER OF MATERIAL AT THE SITE WHERE THE FOUNDATIONS ARE BUILT MAY VARY SUBSTANTIALLY FROM THAT INDICATED BY THE LOG THEY ARE MADE AVAILABLE TO THE BIDDERS SIMPLY FOR WHAT THEY ARE WORTH, WITHOUT ANY WARRANTY, EXPRESSED OR IMPLIED THAT THE MATERIAL TO BE ENCOUNTERED IN BUILDING THE FOUNDATION WILL CONFORM THERWITH. IF THE LOG IS USED BY THE CONTRACTOR OR IN MAKING HIS BID, IT IS HEREBY EXPRESSLY STIPULATED THAT THE COMMISSION ACCEPTS NO RESPONSIBILITY FOR SAID USE. UNLESS OTHERWISE SPECIFIED THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" OD X 1.4" ID SPOLET SPOON SAMPLER WITH A 140 LB. HAMMER HAVING A FREE FALL OF 30 INCHES. THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SOIL FRICTION ON THE DRIVE PIPE.



DESIGNED BY	STATE HIGHWAY COMMISSION OF WISCONSIN		
TITLE	SUBSURFACE EXPLORATION		
DESIGN NO.	AASHO 61	LOADING	HS20
DATE	11-25-69	DESIGNER	JAS
STRUCTURE	B-32-55	SHEET	13 OF 13