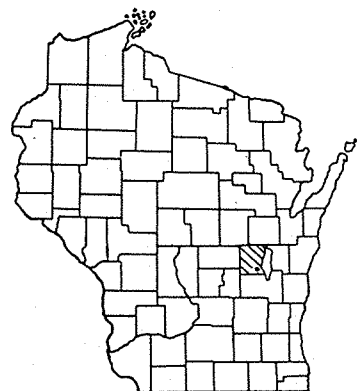


INDEX OF SHEETS

- SHEET NO. 1 TITLE
- SHEET NO. 2 TYPICAL CROSS SECTIONS
- SHEET NO. 3 ESTIMATE OF QUANTITIES
- SHEET NO. 2 MISCELLANEOUS QUANTITIES
- SHEET NO. 4-4.2 RIGHT OF WAY PLAT
- SHEET NO. 5-8 PLAN AND PROFILE STA. 162+85.7 TO STA. 268+54.75
- SHEET NO. 9-9.4 STANDARD DETAILS
- SHEET NO. 10-13 DRAINAGE STRUCTURES
- SHEET NO. 14-22 CROSS SECTIONS



STATE OF WISCONSIN
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

PLAN AND PROFILE OF PROPOSED
SO. COUNTY LINE - OSHKOSH ROAD
 (BLACK WOLF POINT ROAD - FISK AVE.) C.T.H.-N
C.T.H. "I"
WINNEBAGO COUNTY

70.6-1256.0-11.3

SHEET NUMBER	TOTAL SHEETS
1	22

PROJECT IDENTIFICATION NUMBER	FEDERAL PROJECT DESIGNATION
4636-2-70-71	S 1256 (3)

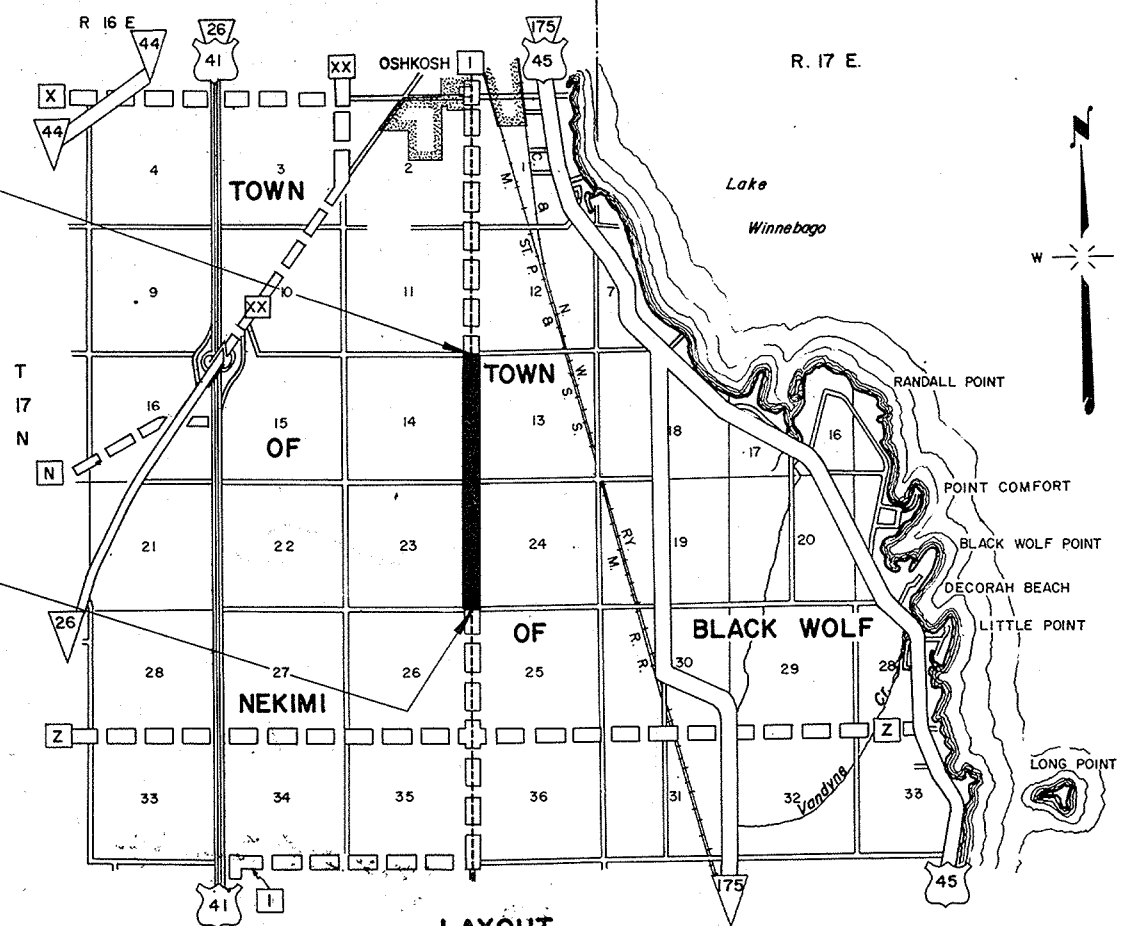
PLAN 1 IN. = 100 FT.
 PROFILE HOR. 1 IN. = 100 FT. VERT. 1 IN. = 10 FT.
 CROSS SECTIONS HOR. 1 IN. = 10 FT. VERT. 1 IN. = 10 FT.

DESIGN DESIGNATION

- A. D. T. (1969) = 350
- A. D. T. (1989) = 450
- D. H. V. = 80
- D. = 60%
- T. = 10%
- V. = 50 M.P.H.

STA. 268+54.75 END
 PROJECT S 1256 (3)/4636 2 70
 AT THE NORTHEAST CORNER OF SECTION 14,
 TOWNSHIP 17 NORTH, RANGE 16 EAST.

STA. 162+85.70 BEGIN
 PROJECT S 1256 (3)/4636 2 70 =
 EQUATION:
 STA. 162+85.64 BACK =
 STA. 162+85.70 AHEAD - END OF PROJECT S 1256 (2)
 AT THE SOUTHEAST CORNER OF SECTION 23,
 TOWNSHIP 17 NORTH, RANGE 16 EAST.



LAYOUT

SCALE 1" = ONE MILE

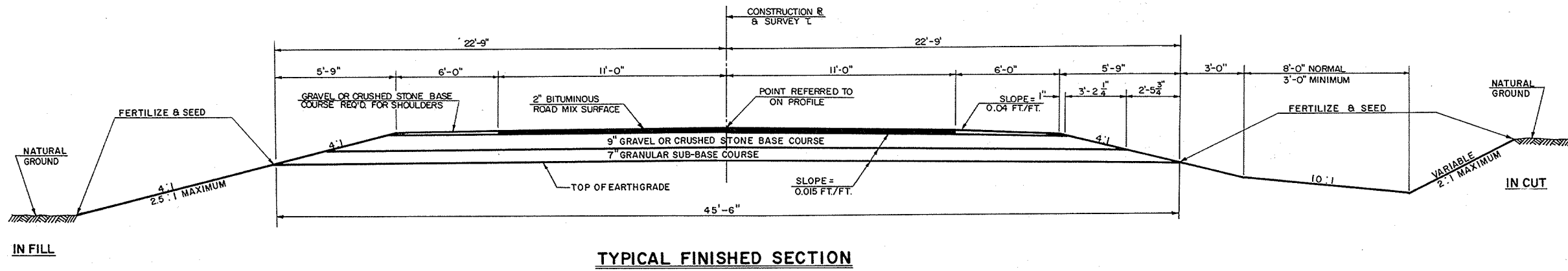
TOTAL NET LENGTH OF CENTERLINE = 2.002 MI.

CONVENTIONAL SIGNS

- | | |
|--|--|
| <ul style="list-style-type: none"> STATE LINE..... COUNTY LINE..... TOWNSHIP OR RANGE LINE..... SECTION LINE..... NEW RIGHT OF WAY LINE..... PRESENT RIGHT OF WAY LINE..... WIRE FENCE { WOVEN..... <li style="padding-left: 20px;">BARBED..... LOT LINE..... CORPORATE OR CITY LIMITS..... PROPERTY LINE..... TRAVELED WAY OR P.E..... RAILROADS..... BASE OR SURVEY LINE..... UNCLASSIFIED EXCAVATION..... UNCL. EXC. CORRUGATED METAL CULVERT PIPE..... C.M.C.P. DITCH GRADE..... D.G. | <ul style="list-style-type: none"> CULVERTS IN PLACE..... CULVERTS REQUIRED..... DROP INLET..... POWER POLE..... TELEPHONE OR TELEGRAPH POLE..... RIGHT OF WAY MARKERS..... REFERENCE STAKE FOR HUBS ONLY..... MARSH..... HEDGE..... TREES..... GROUND ELEVATION..... DATUM LINE 73.9 GRADE ELEVATION..... DATUM LINE 75.16 CULVERT PIPE..... C.P. RIGHT OF WAY..... R/W |
|--|--|

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS MADISON, WISCONSIN	
SURVEYOR..... S.W.	NOTE BOOK..... 775-776
DISTRICT COMPUTER..... R.D.A.	M. O. CHECKER..... W.H.B.
DISTRICT CHECKER..... HEG - WRK	
CORRECT:	
DATE..... 6-21-68 J.W. Emery	
RECOMMENDED FOR APPROVAL:	
DATE..... 7/9/68 E.J. Byrkit	
APPROVED:	
DATE..... 7-11-68 J.J. Burmeister	
DEPARTMENT OF COMMERCE BUREAU OF PUBLIC ROADS	
APPROVED:	
DATE	
DIVISION ENGINEER	

S 1256 (3)



TYPICAL FINISHED SECTION

STATION TO STATION	CLEARING & GRUBBING	
	CLEARING STA. IN DIA.	GRUBBING STA. IN DIA.
163+00 - 168+00	60	60
168+00 - 173+00	*	*
173+00 - 179+00	120	120
179+00 - 184+00	*	*
184+00 - 192+00	115	115
192+00 - 197+00	*	*
197+00 - 204+00	75	75
204+00 - 211+00	*	*
211+00 - 230+00	705	705
230+00 - 235+00	*	*
235+00 - 262+00	380	380
262+00 - 268+00	*	*
268+00 - 272+00	45	45

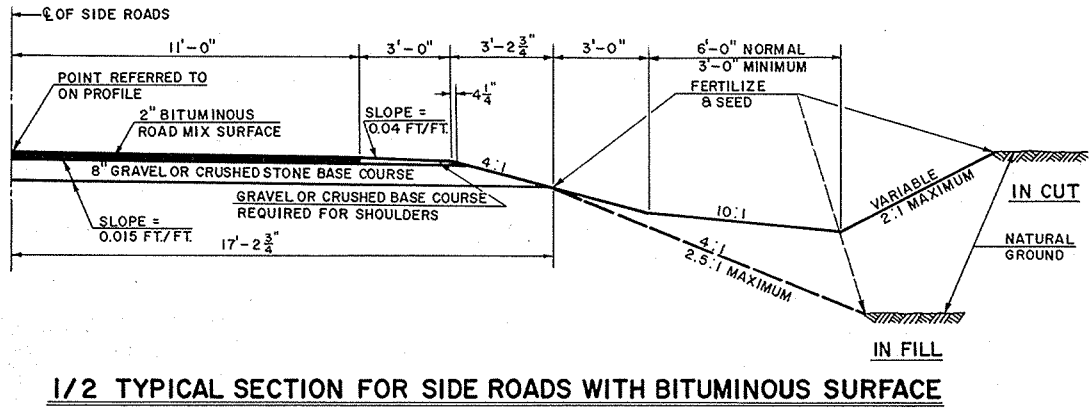
* INDICATES BASIS FOR PAYMENT

CROSS DRAIN & PRIVATE ENTRANCE PIPES				
STATION	DIAMETER	LENGTH	LOCATION	TYPE
182+42	24"	54'	R	C.P. CLASS III
199+80	42"	66'	R	"
210+55	24"	62'	R	"
245+53	24"	62'	R	"
246+30	36"	32'	P.E. RT.	"
247+20	36"	32'	P.E. RT.	"
248+40	36"	32'	P.E. RT.	"
250+40	30"	32'	P.E. LT.	"
254+90	36"	32'	P.E. RT.	"
255+75	36"	32'	P.E. RT.	"
257+25	36"	32'	P.E. RT.	"
260+65	30"	32'	P.E. LT.	"
263+10	30"	32'	P.E. LT.	"
267+50	36"	32'	P.E. RT.	"
268+25	72" X 44"	58'	R	C.M.P.A.
19 P.E.'S @ 32" X 18"		608'	LT. & RT.	C.P. CLASS III

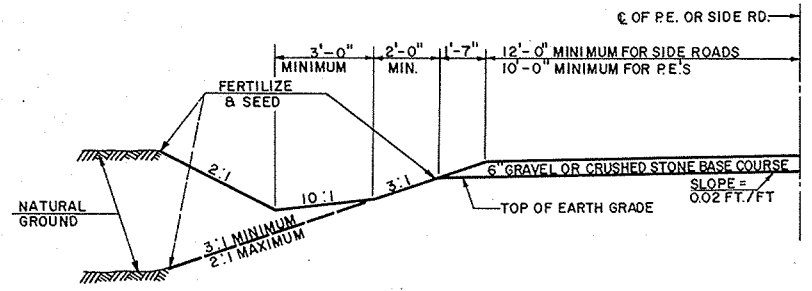
GRAVEL OR CRUSHED STONE BASE COURSE	
LOCATION	TONS
MAINLINE AND SIDE ROADS	23,100
SHOULDERS	1,300
P.E.'S	600

STEEL PLATE BEAM GUARD		
LOCATION	LIN. FT.	ANCHORAGES
STA. 225+36.5 - STA. 226+39.5 LT.	103	I
STA. 225+36.5 - STA. 226+39.5 RT.	103	I
STA. 226+81.0 - STA. 227+84.0 LT.	103	I
STA. 226+81.0 - STA. 227+84.0 RT.	103	I

LANDMARK REFERENCE MONUMENTS		
LOCATION		EACH
P.I. @ STA. 189+35.20	1/4 CORNER	3
P.I. @ STA. 215+77.45	SEC. CORNER	3
P.I. @ STA. 242+08.90	1/4 CORNER	3
P.I. @ STA. 268+54.75	SEC. CORNER	3



1/2 TYPICAL SECTION FOR SIDE ROADS WITH BITUMINOUS SURFACE



1/2 TYPICAL SECTION FOR GRAVEL SURFACE SIDE ROADS AND FOR PRIVATE ENTRANCES.

GENERAL NOTES

CUBIC YARDS OF EMBANKMENT SHOWN ON THE ESTIMATE SHEET PERTAINS TO THE SUMMARY OF THE FILL VOLUMES SHOWN BETWEEN BALANCE POINT ON THE PLAN SHEETS. BORROW SHOWN WAS COMPUTED BY USING AN AVERAGE SHRINKAGE OF 35% FOR THE UNCLASSIFIED EXCAVATION AND 20% FOR THE BORROW EXCAVATION, BASED ON THE FILL. THE EXACT LOCATION OF P.E.'S SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD. WHEN THE QUANTITY OF ITEMS OF SUBBASE, BASE OR SURFACE COURSE IS MEASURED FOR PAYMENT BY THE TON OR CUBIC YARDS, THE DEPTH OR THICKNESS OF THE COURSE SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THIS MATERIAL DIRECTED BY THE ENGINEER. UTILITY COMPANIES SHALL ADJUST OR MOVE ALL PRIVATELY OWNED FACILITIES WHICH INTERFERE WITH THE NEW CONSTRUCTION. INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES SHOWN ARE APPROXIMATE AND SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD. ITEMS SHOWN ON THE PLAN AND NOT INCLUDED IN THE ESTIMATE, ARE NOT PART OF THIS CONTRACT.

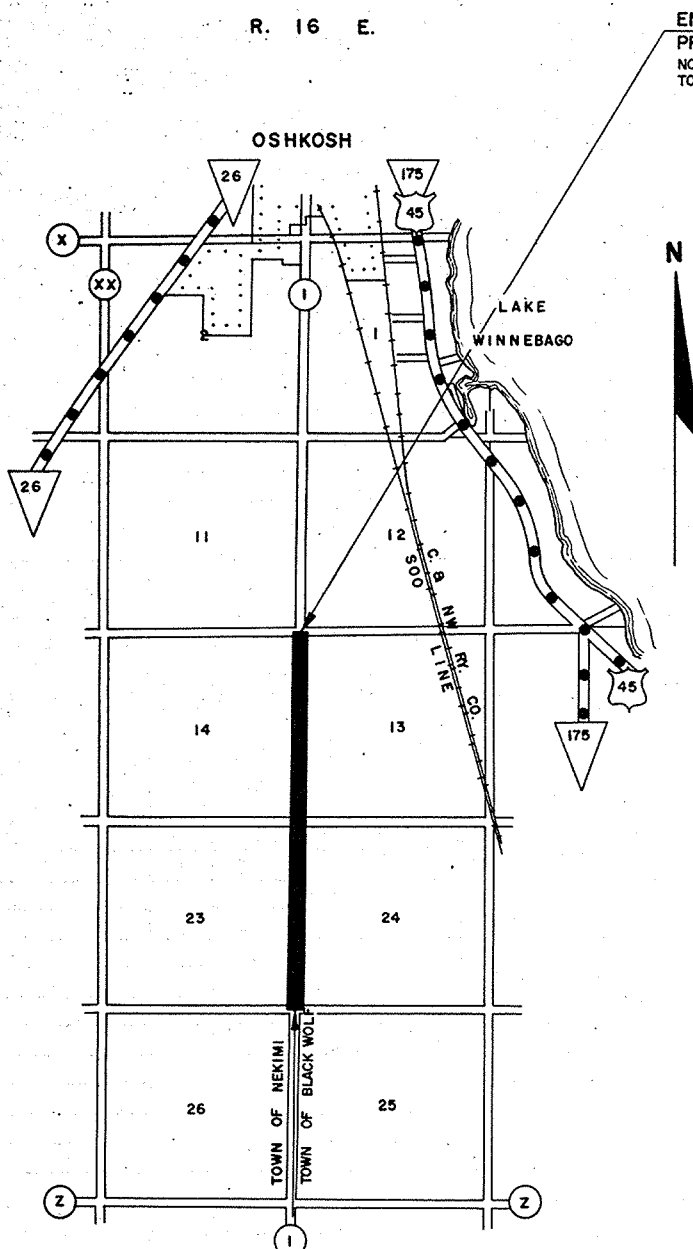
STANDARD DETAIL DRAWINGS

- CONSTRUCTION BARRICADE _____ 7-4.1.5
- SIDE ROAD LAYOUT DETAILS _____ 9-1.1.5
- LANDMARK REFERENCE MONUMENTS _____ 12-1.1.3
- STEEL PLATE BEAM GUARD _____ 7-2.4.13
- CORRUGATED METAL PIPE ARCH _____ 6-5.3.2

TYPICAL CROSS SECTION
FOR
22' BITUMINOUS ROAD MIX SURFACE
AND
MISCELLANEOUS CONSTRUCTION DETAILS

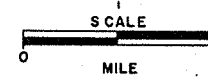
SCALE: VARIABLE

COUNTY AND HIGHWAY	ROUTE AND SECTION	CLASS AND AGREEMENT		B. P. R. REGION DIVISION	SHEET NUMBER	TOTAL SHEETS
		STATE	FEDERAL			
70.6	1256.0	—	11.3	4 Wis.	4	
CONST. PROJECT 51256(3) 4636-2-70					4	22



END RELOCATION ORDER
PROJECT S 1256(3) STA. 268+54.75
NORTHEAST CORNER OF SECTION 14,
TOWNSHIP 17 NORTH, RANGE 16 EAST.

SCHEDULE OF LANDS AND INTERESTS REQUIRED				
PARCEL NUMBER	SHEET NUMBER	OWNER	INTERESTS REQUIRED	ACRES
1	4.1	ARTHUR GALOW	HIGHWAY EASEMENT	0.24
2	4.1	DARWIN E. KIENERT	"	0.13
3	4.1	HARVEY HARTMAN	"	0.01
4	4.1	LAWRENCE C. BASLER	"	0.11
5	4.1 & 4.2	WIS. PUBLIC SERVICE CORP.	RELEASE OF RIGHTS	—
6	4.1	SUSAN BRENNARD	HIGHWAY EASEMENT	0.21
7	4.1 & 4.2	HAROLD F. VILLWOCK	"	0.64
8	4.1	ARTHUR GALOW	"	0.11
9	4.1	GILBERT H. POTRATZ	FEE	0.15
10	4.1	LEO LUEBKE	HIGHWAY EASEMENT	0.16
11	4.1 & 4.2	WIS. PUBLIC SERVICE CORP.	RELEASE OF RIGHTS	—
12	4.1	LILLIAN L. WILLIAMS	HIGHWAY EASEMENT & L.H.E.	0.18
13	4.1	IRENE VILLWOCK	HIGHWAY EASEMENT	0.23
14	4.1	KERMIT HENCKE	"	0.47
15	4.1 & 4.2	WIS. TELEPHONE CO.	RELEASE OF RIGHTS	—
16	4.1	BERNARD C. RUEDINGER	HIGHWAY EASEMENT	0.21
17	4.2	ARTHUR A. WRUCK	"	0.12
18	4.2	ROBERT R. RUH	"	0.05
19	4.2	ALBERT J. GLASENAPP	"	0.19
20	4.2	RICHARD D. DERBER	"	0.51
21	4.2	CLARENCE A. SCHNELL	"	0.18
22	4.2	WALTER G. GRAICHEN	"	0.05
23	4.2	CORA HENKE	"	0.56
24	4.2	HUGO E. WILLIAMS	"	0.02
25	4.2	MELVIN PERCEY	"	0.02
26	4.2	RUSSEL A. KENYON	"	0.02
27	4.2	STANLEY VILLWOCK	"	0.02
28	4.2	M. E. DEATON	"	0.02
29	4.2	HAROLD G. CLARK	"	0.18
30	4.2	JOHN M. HOBART JR.	"	0.19
31	4.2	ALBERT MELLENTHEN	"	0.18
32	4.1	DAVID L. SENNHOLZ	"	0.06
33	4.2	DONALD L. BAUER	"	0.04
34	4.2	CLIFFORD R. DREW	"	0.05
35	4.2	HARVEY SCHNELL	"	0.41



LOCATION SKETCH

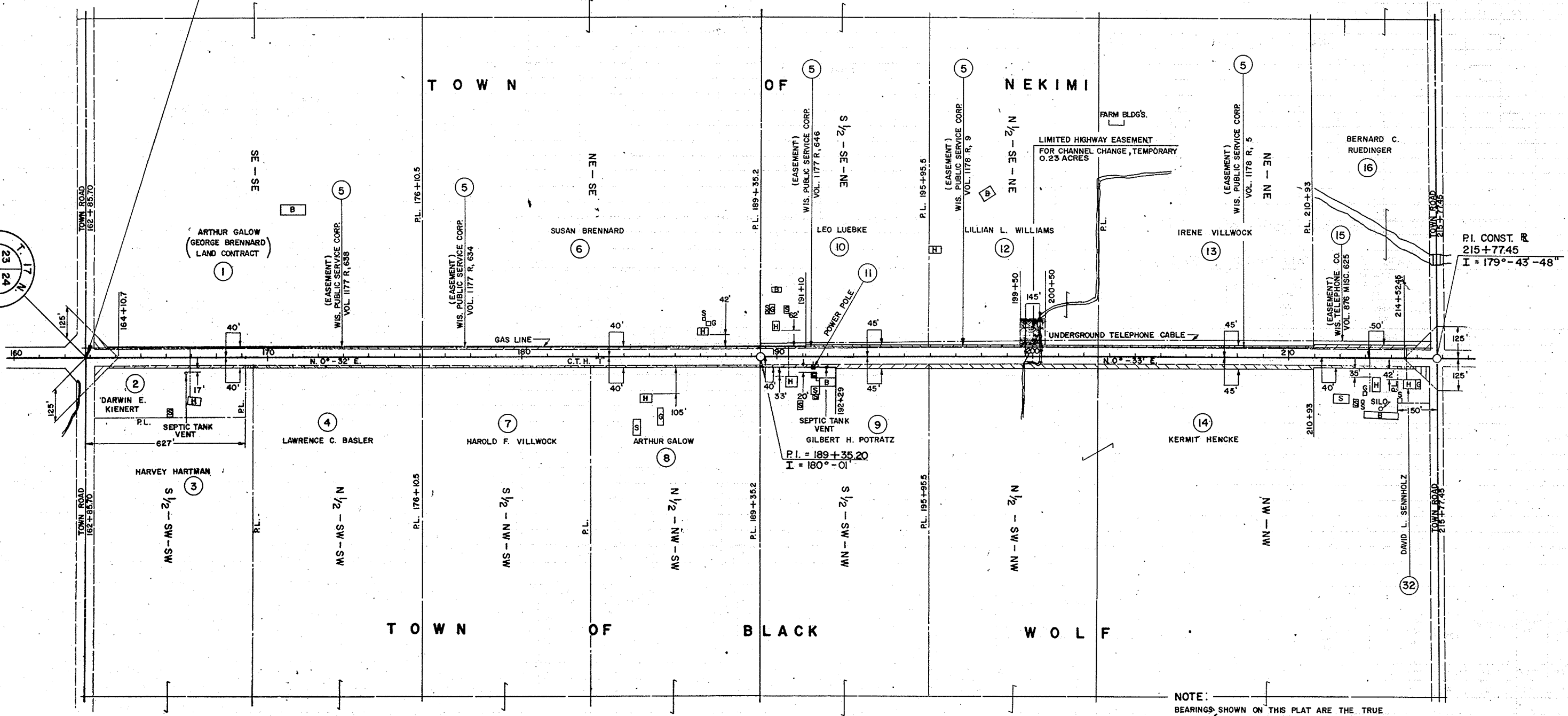
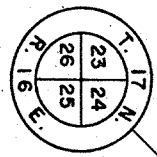
BEGIN RELOCATION ORDER
PROJECT S 1256(3) STA. 162+85.70
SOUTHEAST CORNER OF SECTION 23,
TOWNSHIP 17 NORTH, RANGE 16 EAST.

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

REVISION DATE	STATE HIGHWAY COMMISSION OF WISCONSIN
5-15-68	PLAT OF RIGHT OF WAY REQUIRED
	PROJECT S 1256 (3)
	SOUTH COUNTY LINE — OSHKOSH
	(BLACK WOLF POINT ROAD TO FISK AVENUE)
	C.T.H. "1" WINNEBAGO COUNTY
	SCALE
	0 200 400 FEET
	LENGTH 2.002 MILES DATED 4-10-68

COUNTY AND HIGHWAY	ROUTE AND SECTION	CLASS AND AGREEMENT		B. P. R. REGION DIVISION	SHEET NUMBER	TOTAL SHEETS
70.6	1256.0	—	11.3	4 Wis.	4.1	
CONST. PROJECT 51256(3) 4636-2-70					4.1	22

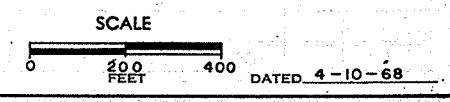
BEGIN RELOCATION ORDER
PROJECT S 1256 (3) STA. 162+85.70



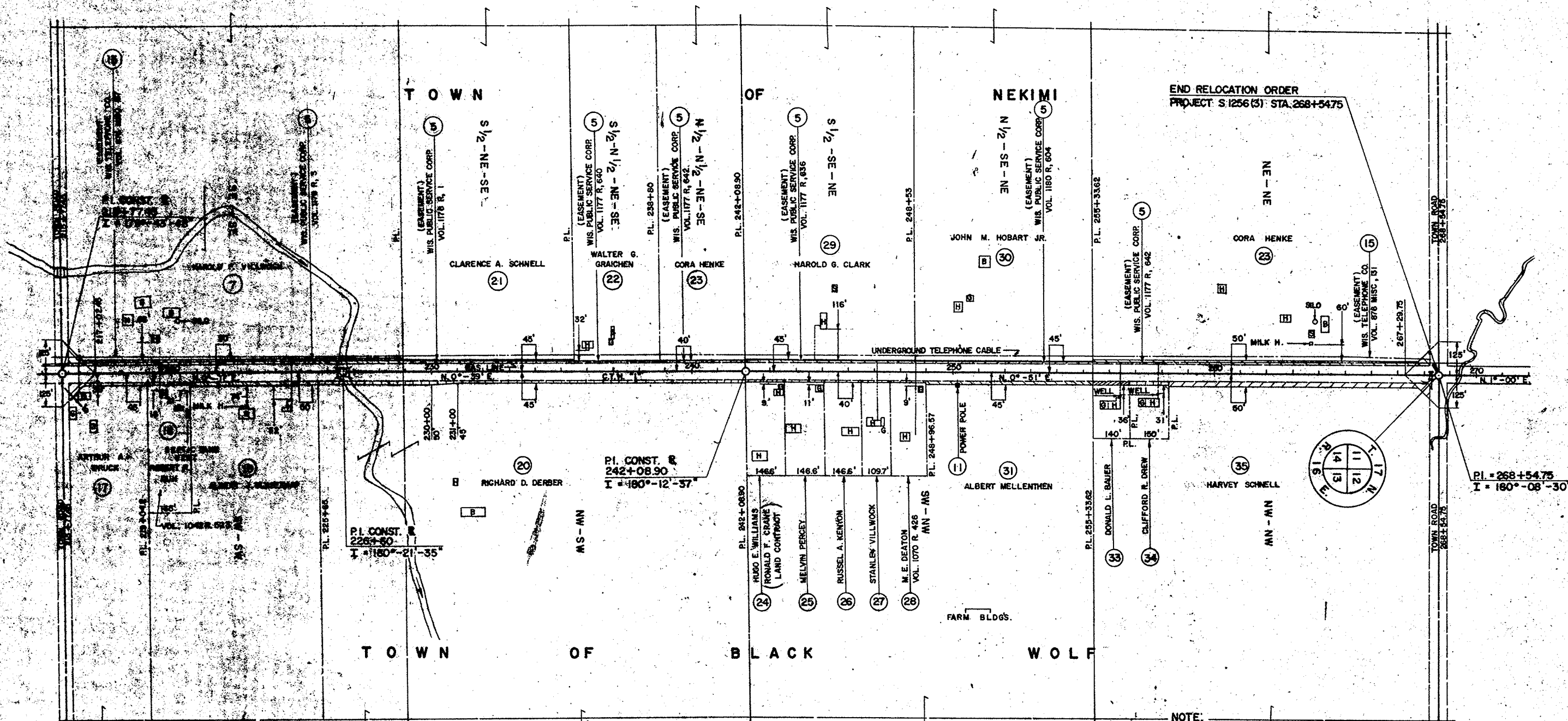
NOTE:
BEARINGS SHOWN ON THIS PLAT ARE THE TRUE
BEARINGS OF EACH TANGENT TO THE NEAREST MINUTE

REVISION	DATE
5-15-68	

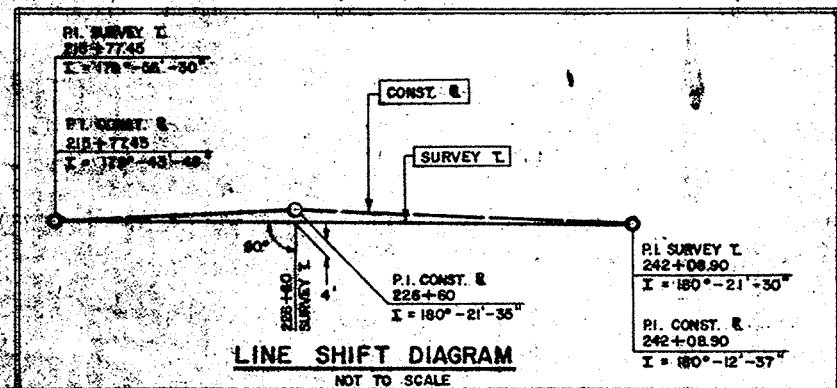
STATE HIGHWAY COMMISSION OF WISCONSIN
PLAT OF RIGHT OF WAY REQUIRED
PROJECT S 1256 (3)



COUNTY AND HIGHWAY	ROUTE AND SECTION	CLASS AND AGREEMENT		B. P. R. REGION DIVISION	SHEET NUMBER	TOTAL SHEETS
		STATE	FEDERAL			
70.6	1256.0	-	11.3	4 WIS.	4.2	
CONST. PROJECT S 1256(3) 4636-2-70-71					4.2	22

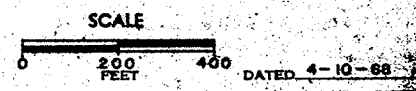


NOTE:
BEARINGS SHOWN ON THIS PLAT ARE THE TRUE BEARINGS OF EACH TANGENT TO THE NEAREST MINUTE.



REVISION DATE	
5-18-68	N.C.

STATE HIGHWAY COMMISSION OF WISCONSIN
PLAT OF RIGHT OF WAY REQUIRED
PROJECT S 1256 (3)



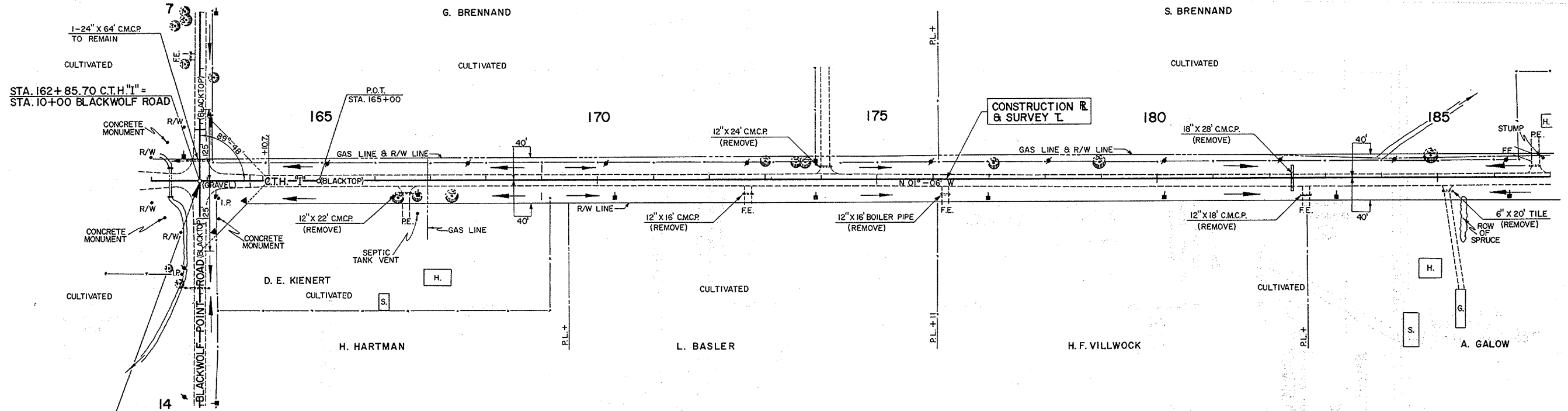
BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
19	163+12	SPIKE IN 30" ELM 185' LT.	814.36
20	166+67	SPIKE IN 26" OAK 85' RT.	813.99
21	173+75	SPIKE IN 26" OAK 30' LT.	811.78
21A	184+93	SPIKE IN 14" HICKORY 38' LT.	808.11

STA. 162+85.70 TOWN ROAD LT. & RT.
DESIGN TYPE "C" INTERSECTION REQ'D.
SEE STANDARD DRAWING NO. 9-1.1.5

PROJECT	SHEET NUMBER	TOTAL SHEETS
SI256 (3)	5	22

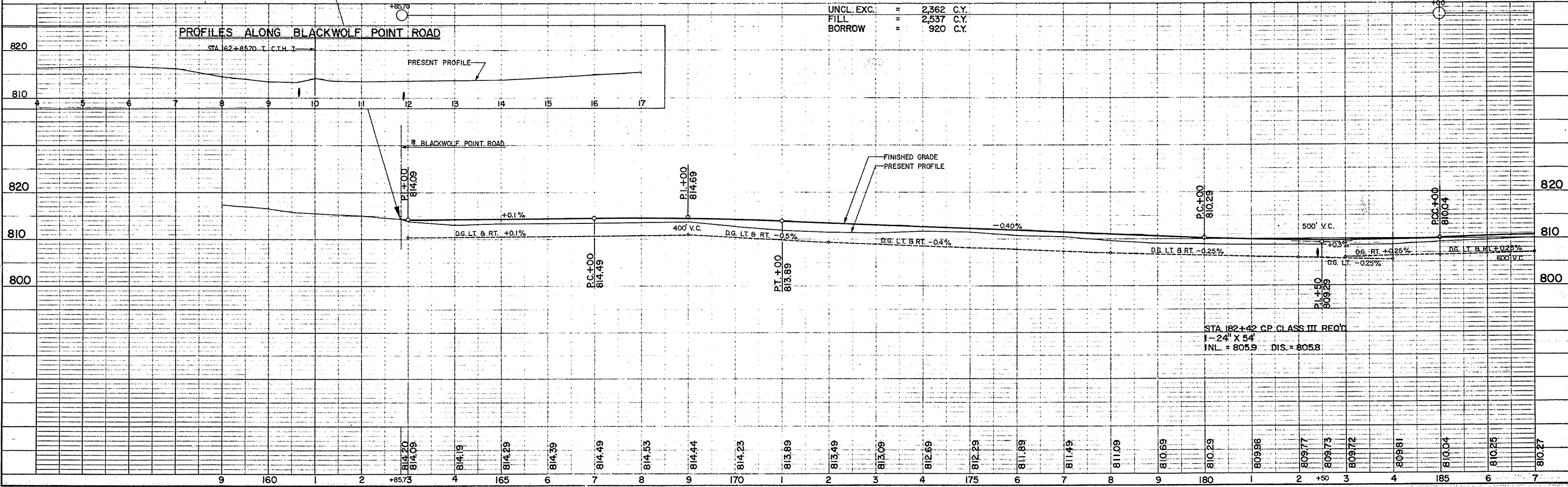
4636-2-70-71



NET LENGTH OF CENTERLINE

STATION TO STATION	LIN. FT.	
162+85.70	185+00	2,214.3

STA. 162+85.70 BEGIN PROJECT SI256 (3)

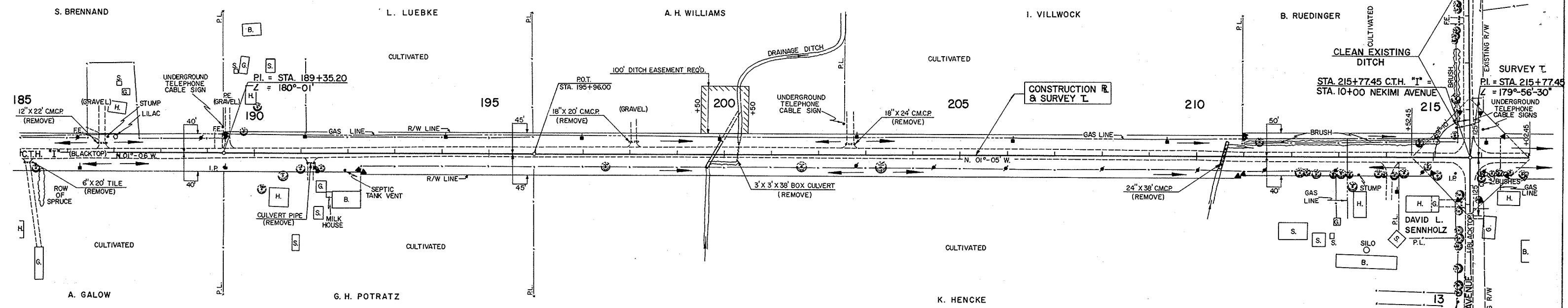


STA. 182+42 CP CLASS III REQ'D
1-24" X 54"
INL = 805.9 DIS. = 805.8

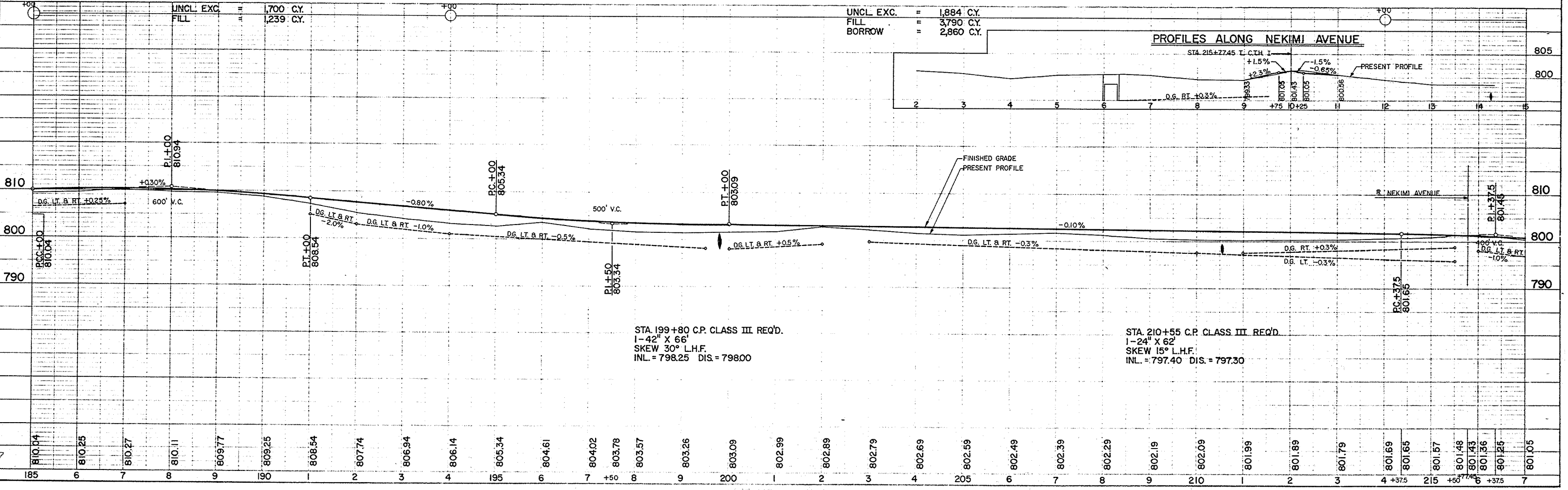
BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
22	190+81	SPIKE IN 18" ELM 129' LT.	808.59
22A	195+96	SPIKE IN 6" TWIN ASH 130' LT.	801.89
23	200+40	P.M. NW. COR. BOX CULVERT 28' LT.	802.59
24	213+42	P.M. NW. COR. CONC. PORCH 66' RT.	803.73

DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4636-2-70-71	SI256 (3)	6	22

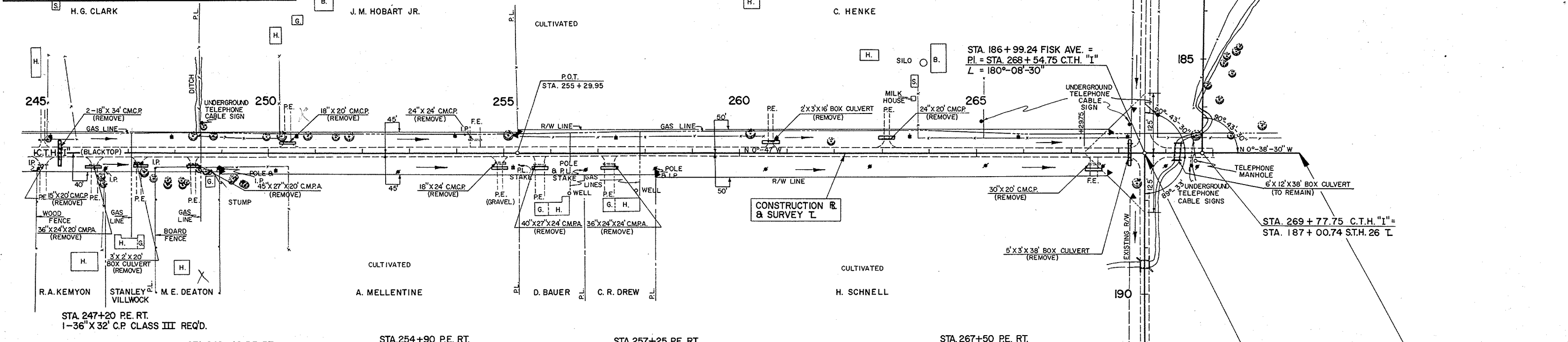


NET LENGTH OF CENTERLINE		
STATION TO STATION	LIN. FT.	
185+00	215+00	3,000.0



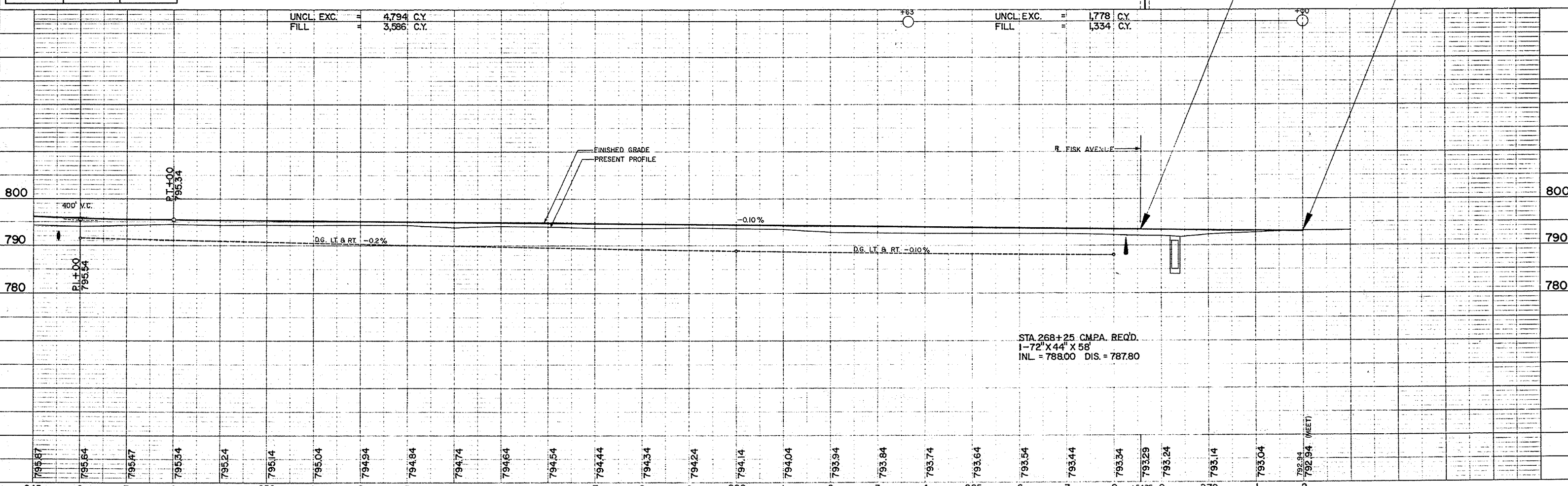
S. P. R. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
	S 1256 (3)	8	22
4636-2-70-71			

NO.	STATION	DESCRIPTION	ELEV.
28A	248+66	SPIKE IN 36" TWIN ELM 105' LT.	795.88
28B	257+60	SW. COR. PLANTER HOUSE 90' RT.	796.93
28C	262+90	SPIKE IN 18" BOX ELDER 120' LT.	793.39
28D	268+33	PM. NW. COR. BOX CULVERT 24' LT.	792.64
29	271+05	SPIKE IN 30" ELM 60' LT.	792.90



NET LENGTH OF CENTERLINE		
STATION TO STATION	LIN. FT.	
245+00	268+54.75	2,354.75

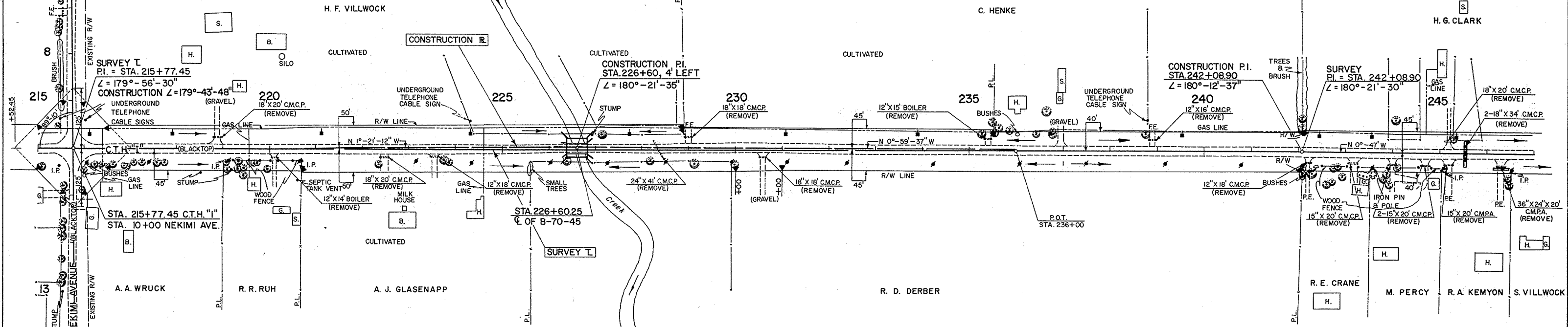
UNCL. EXC. = 4,794 C.Y.	UNCL. EXC. = 1,778 C.Y.
FILL = 3,586 C.Y.	FILL = 1,334 C.Y.



BENCH MARKS				
NO.	STATION	DESCRIPTION		ELEV.
25	219+03	SPIKE IN 28" ELM	75' RT.	797.73
26	225+63	SPIKE IN 24" ELM	70' RT.	795.78
26A	230+45	SPIKE IN 18" ASH	153' RT.	793.84
27	238+81	SPIKE IN 14" TRIPLE ELM	110' LT.	796.28
27A	243+82	SPIKE IN 12" OAK	57' RT.	793.45

D.P.R. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4	S1256(3)	7	22

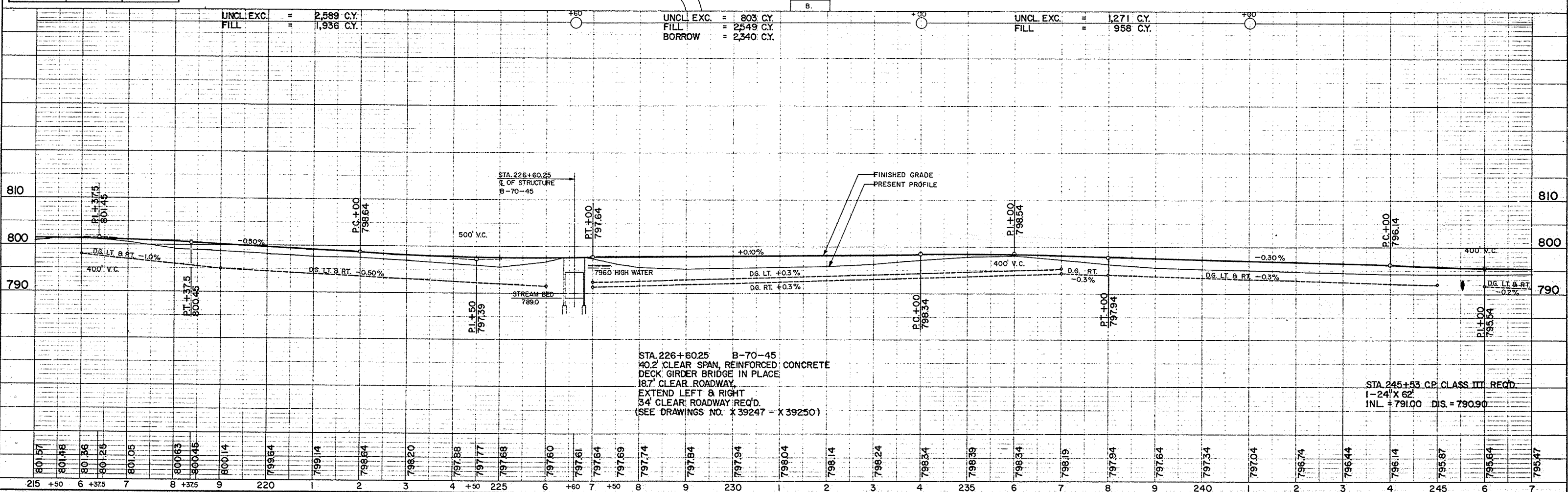
4636-2-70-71



NET LENGTH OF CENTERLINE		
STATION TO STATION	LIN. FT.	
215+00	245+00	3,000.0

STA. 215+77.45 TOWN ROAD LT. & RT.
 DESIGN TYPE "C" INTERSECTION REQ'D.
 SEE STANDARD DRAWING NO. 9-1.15

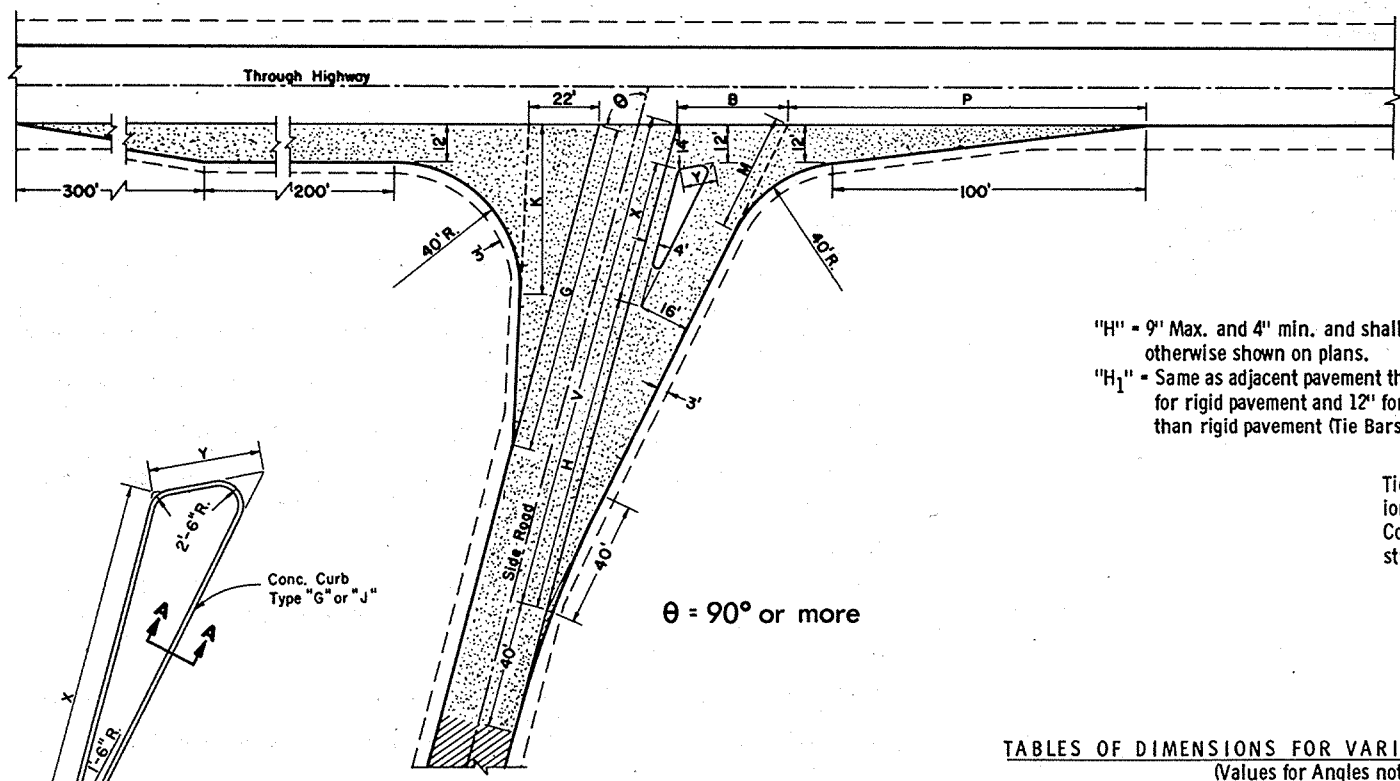
STA. 245+30 P.E. RT.
 1-36"X32' C.P. CLASS III REQ'D.



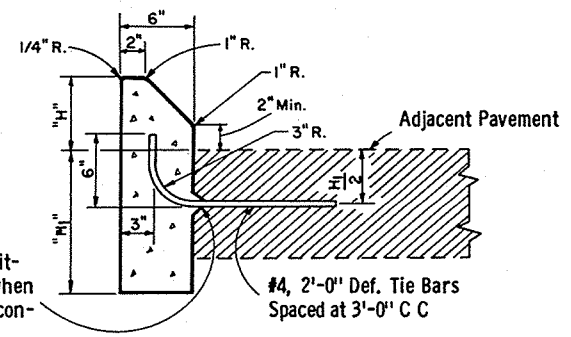
STA. 226+60.25 B-70-45
 40.2' CLEAR SPAN, REINFORCED CONCRETE
 DECK GIRDER BRIDGE IN PLACE
 18.7' CLEAR ROADWAY
 EXTEND LEFT & RIGHT
 34' CLEAR ROADWAY REQ'D.
 (SEE DRAWINGS NO. X39247 - X39250)

STA. 245+53 C.P. CLASS III REQ'D.
 1-24"X62"
 INL. = 791.00 DIS. = 790.90

9.#-22

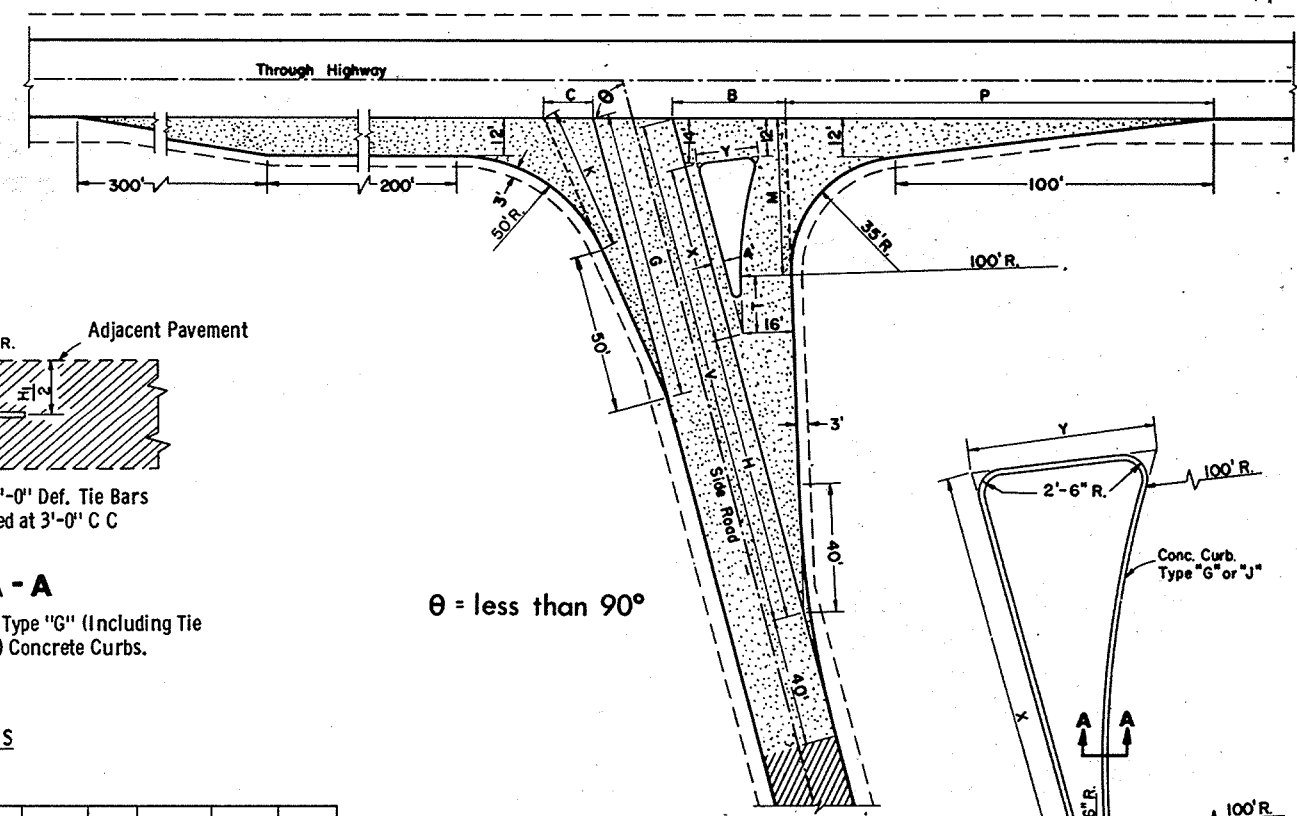


$\theta = 90^\circ$ or more



SECTION A-A

Note: To be measured and paid for as Type "G" (Including Tie Bars) or Type "J" (Excluding Tie Bars) Concrete Curbs.



$\theta = \text{less than } 90^\circ$

TABLES OF DIMENSIONS FOR VARIABLE SIDE ROAD INTERSECTION ANGLES
(Values for Angles not shown shall be interpolated)

θ	G	K	B	V	H	X	Y	P	M
90	90	43.8	33.9	156.0	94	48.0	11.0	125.0	44.2
95	94	46.7	34.0	156.7	96	47.0	11.0	121.3	41.9
100	98	50.0	34.4	157.4	98	45.9	11.0	117.7	39.7
105	102	53.8	35.2	158.3	100	44.9	11.2	114.2	37.8
110	106	58.2	36.4	159.2	102	43.7	11.4	110.6	36.2
115	110	63.4	38.4	161.8	104	42.6	11.7	107.1	34.8
*120	114	69.4	40.1	161.2	106	41.4	12.2	103.4	33.7

θ	C	G	K	B	V	X	Y	H	P	M	T
*60	19.7	76.3	38.6	41.5	169.9	67.4	29.3	84	144.5	58.8	21.6
65	17.8	82.6	40.6	39.4	166.9	63.6	25.0	86	141.2	54.9	20.7
70	15.8	87.2	43.1	37.4	164.1	59.7	21.9	88	136.8	51.4	19.2
75	15.7	90.9	45.6	35.7	161.4	55.9	19.3	90	132.7	48.2	17.4
80	15.9	94.9	48.3	34.4	158.9	51.9	17.0	92	128.8	45.3	14.9
85	16.2	99.3	51.4	33.4	156.4	48.0	15.0	94	125.2	42.7	10.4

*Maximum angle of intersection

*Desirable Minimum angle of intersection

TYPE "A" SIDE ROAD INTERSECTION DETAILS

GENERAL NOTES

Designs may be used interchangeably in combination or separately for any one complete intersection depending upon intersection angle and surfacing of each approach roadway.

Details on this drawing are for minimum design only, and not applicable to special conditions, as shown elsewhere on the plans.

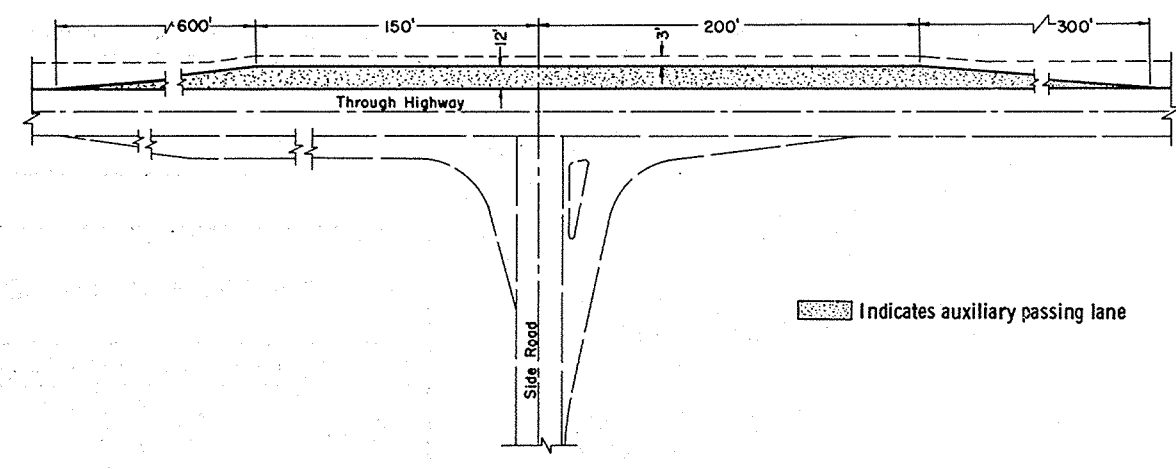
SIDE ROAD SURFACING NOTE

If the side road is not presently paved, pavement shall be placed to the limits shown. In the case where the construction limits are beyond the paving limits, gravel or crushed stone surfacing shall be placed between the paving limits and construction limits.

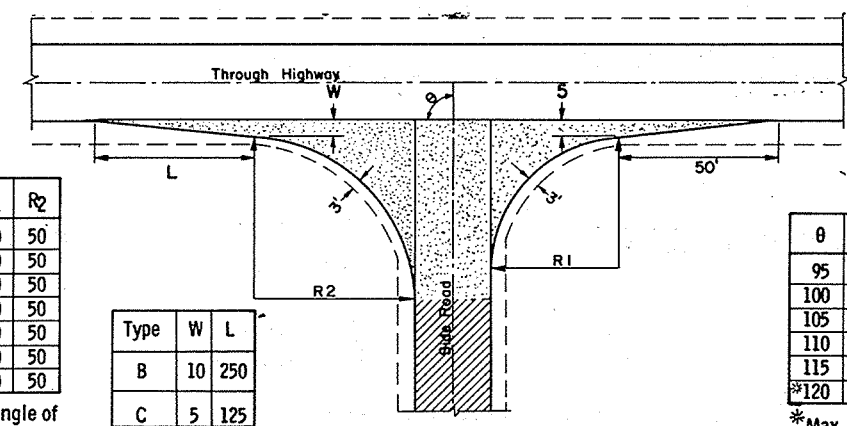
If the side road is presently paved, new pavement shall be placed to the limits of design as shown and beyond, if necessary, to meet existing pavement.

If side road is the construction project, the intersection surfacing shall be the same as for the project.

- New Pavement
- Existing Surface



PASSING LANE DETAIL



θ	R ₁	R ₂
*60	40	50
65	40	50
70	40	50
75	40	50
80	40	50
85	40	50
90	40	50

*Min. Angle of Intersection

Type	W	L
B	10	250
C	5	125

θ	R ₁	R ₂
95	45	49
100	50	48
105	55	47
110	60	46
115	65	45
*120	70	44

*Max. Angle of Intersection

TYPE "B" & "C" SIDE ROAD INTERSECTION DETAILS

LAYOUT DETAILS FOR AT-GRADE SIDE ROAD INTERSECTIONS

State Highway Commission of Wisconsin

RECOMMENDED FOR APPROVAL:

DATE: 8/9/67
DESIGN ENGINEER: E.J. Rydell

APPROVED: 8/9/67
STATE HIGHWAY ENGINEER: [Signature]

Plate No. 9-1.15

Plate No. 9-1.15

9-22

GENERAL NOTES

The contractor shall construct, place and maintain barricades as shown on the drawing and as required by the Standard Specifications or applicable Special Provisions.

CLASS 1 BARRICADE:

Class 1 Barricades shall be of variable length as indicated, and long barricades shall be assembled from these units. The Class 1 Barricade is the type normally required for major operations, where the barricade will remain in place for extended periods. Class 1 Barricades shall be used at points where the road is closed to traffic. Gates or movable sections of a barricade shall be provided when necessary, for access of equipment or other authorized vehicles.

Wing Barricades are Class 1 Barricades erected on the shoulder on one or both sides of the pavement to give Traffic the perceptive effect of a narrowing or restricted roadway. The ends closest to traffic of all three members of a wing barricade shall be in a vertical line. If used in a series, they should start at the outer edge of the shoulder and be brought progressively closer to the pavement. Wing Barricades may be used as a mounting for the advance warning or guide signs or for flashers. When used on two-way roadways, the back of the wing barricade shall be painted reflectorized white.

CLASS 11 BARRICADE:

Class 11 Barricades 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.

MATERIAL & 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. Metal shall be 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 woodworking and metalworking practices. All lumber or timber dimensions stated are nominal.

PAINTING:

All barricades shall be painted in alternate 4" or 6" black and white stripes at a 45° angle. The width of stripe shall be consistent for each complete barricade installation. Black stripes shall be painted with weather resistant and durable black paint. White stripes shall be primed, followed by two coats of white reflectorized paint or reflective wide angle sheeting.

DIRECTION OF DIAGONAL STRIPES:

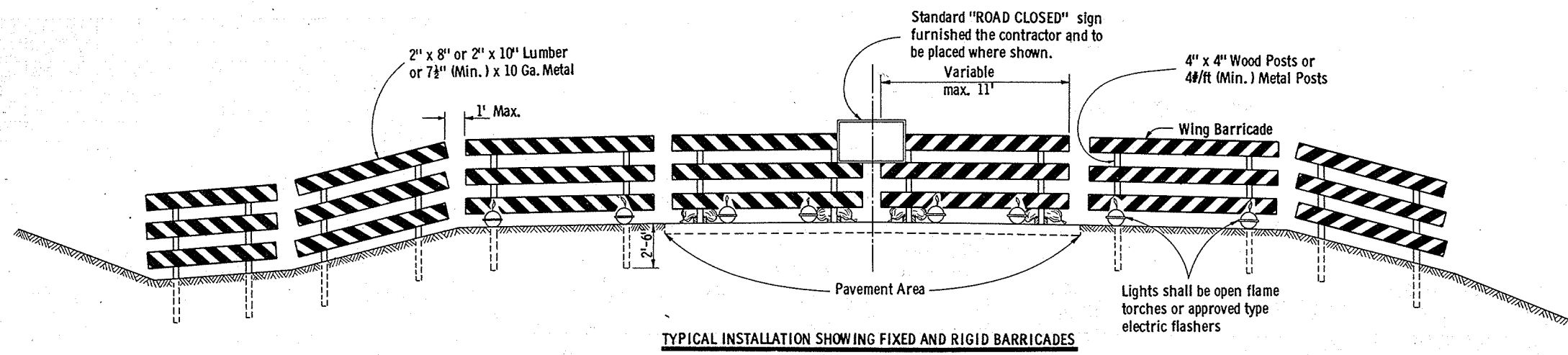
Where a barricade extends entirely across the roadway with no vehicle access provision, the stripes shall slope downward toward the highway centerline. Where vehicle access is permitted, the stripes shall slope downward in the direction toward which vehicles must turn in detouring. Where both right and left turns are provided for, the stripes shall slope downward in both directions from the center. The stripes on wing barricades shall point downward toward the roadway.

LIGHTING:

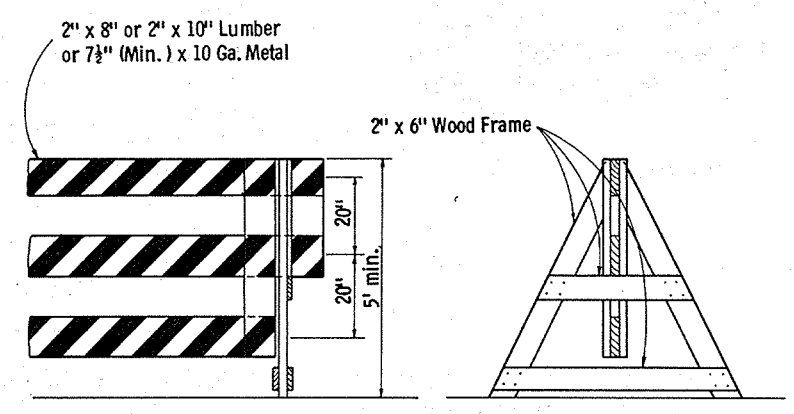
Lighting devices for barricades shall conform to the requirements of the Standard Specifications.

MEASUREMENT & PAYMENT:

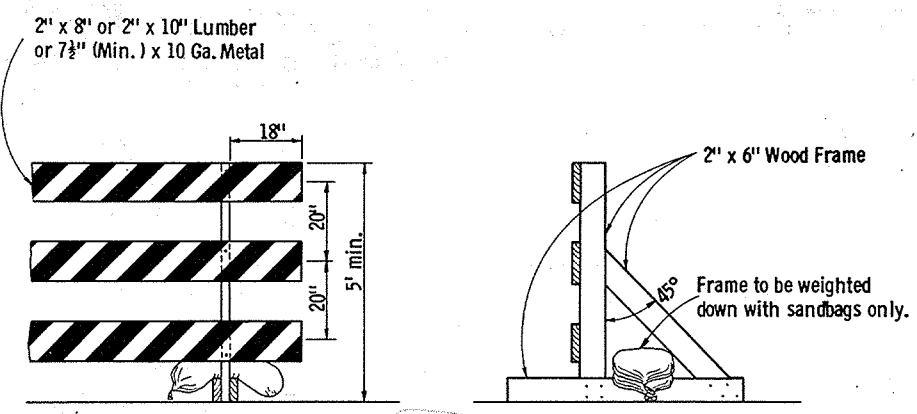
All barricades, unless otherwise provided for in the plans and/or special provisions shall be furnished, placed, and maintained as noted above, and no additional compensation will be allowed but shall be construed to be included in the price bid for other items.



TYPICAL INSTALLATION SHOWING FIXED AND RIGID BARRICADES

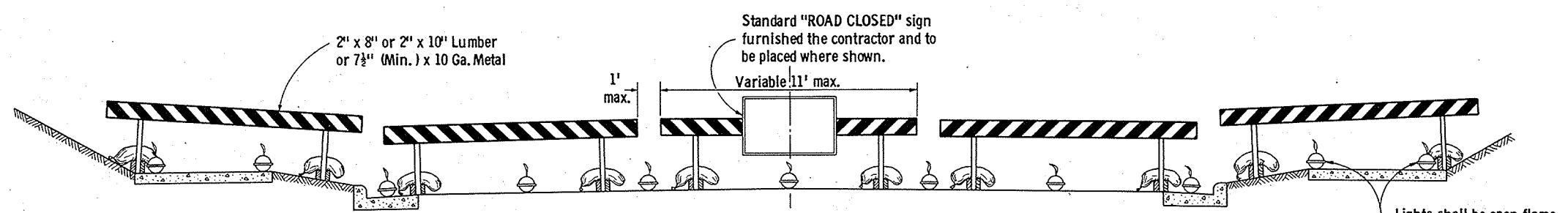


ALTERNATE TYPE INSTALLATION (DEMOUNTABLE)

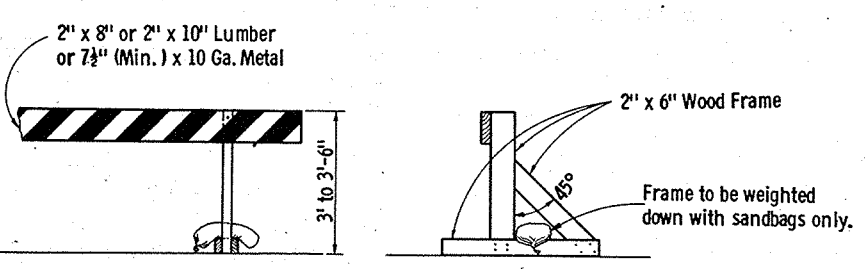


ALTERNATE TYPE INSTALLATION (RIGID)

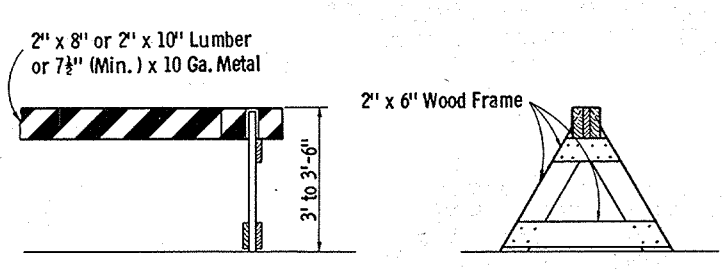
CLASS I BARRICADES



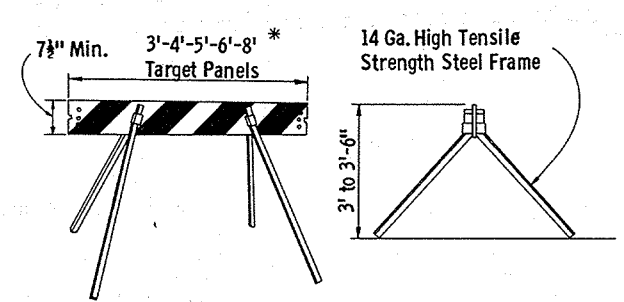
TYPICAL INSTALLATION SHOWING RIGID BARRICADES



ALTERNATE TYPE INSTALLATION (RIGID)



ALTERNATE TYPE INSTALLATION (DEMOUNTABLE)

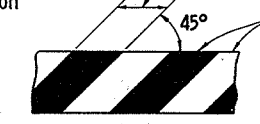


ALTERNATE TYPE INSTALLATION (DEMOUNTABLE)

CLASS II BARRICADES

Alternate black & white stripes. See General Notes for direction of stripes

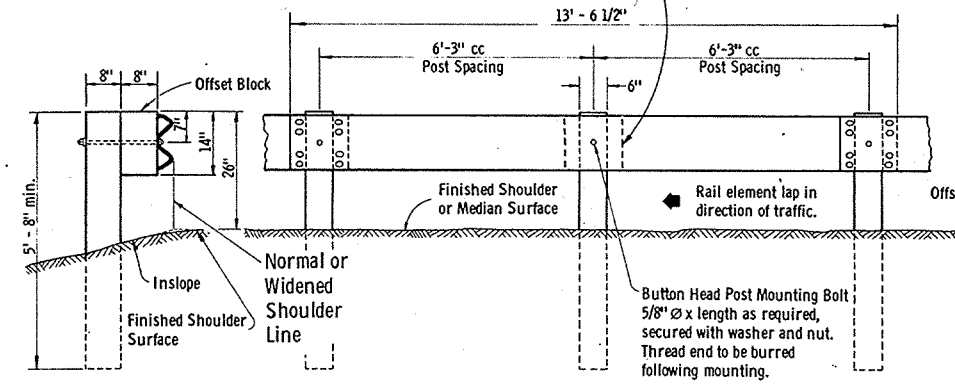
4" or 6" but consistent for each barricade installation



TYPICAL DIAGONAL STRIPES
Applies to all Classes & Types of Barricades

CONSTRUCTION BARRICADE	
State Highway Commission of Wisconsin	
RECOMMENDED FOR APPROVAL:	
DATE: 1/10/67	E. J. [Signature] CHIEF DESIGN ENGINEER
APPROVED:	
DATE: 1/13/67	J. P. [Signature] STATE HIGHWAY ENGINEER

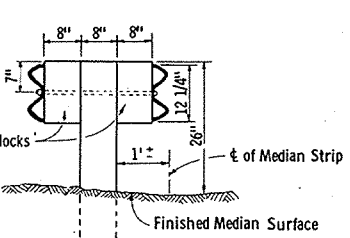
One foot long section of rail element, with a 3/4" slotted hole for mounting, shall be placed behind the continuous rail element at the intermediate posts.



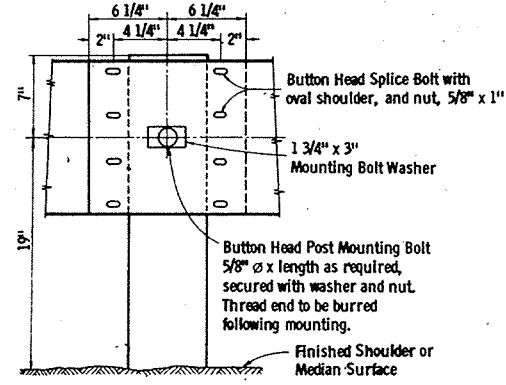
END ELEVATION
STEEL PLATE BEAM GUARD

FRONT ELEVATION

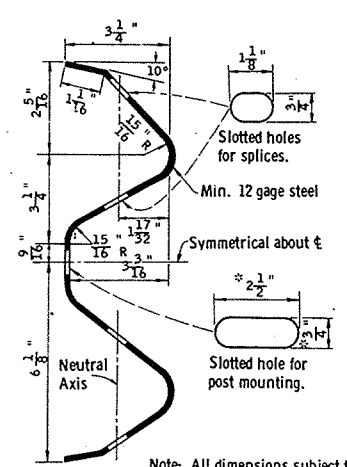
Sawed treated timber posts 6" x 8" x 6'-0" and sawed treated timber offset blocks 6" x 8" x 14" shall be furnished and placed in accordance with Standard Specifications.



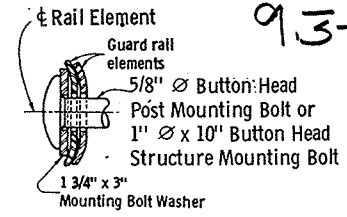
END ELEVATION
STEEL PLATE BEAM MEDIAN GUARD



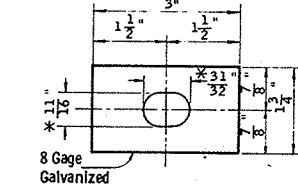
RAIL ELEMENT SPLICING
AND POST MOUNTING DETAILS



SECTION THRU RAIL ELEMENT
* Holes for Structure Mounting shall be 1 1/16" dia.



MOUNTING BOLT DETAIL



MOUNTING BOLT WASHER
* Hole in Structure Mounting Bolt Washer to be 1 1/16" dia.

93-22 GENERAL NOTES 176-17

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

The exact location of the beginning and end of each Guardrail installation shall be as shown on the plans or as directed by the engineer.

TERMINATION AT STRUCTURES NOT PROVIDED WITH A NOTCH
For those structures where a notch is not provided, the guardrail will be terminated as directed by the engineer.

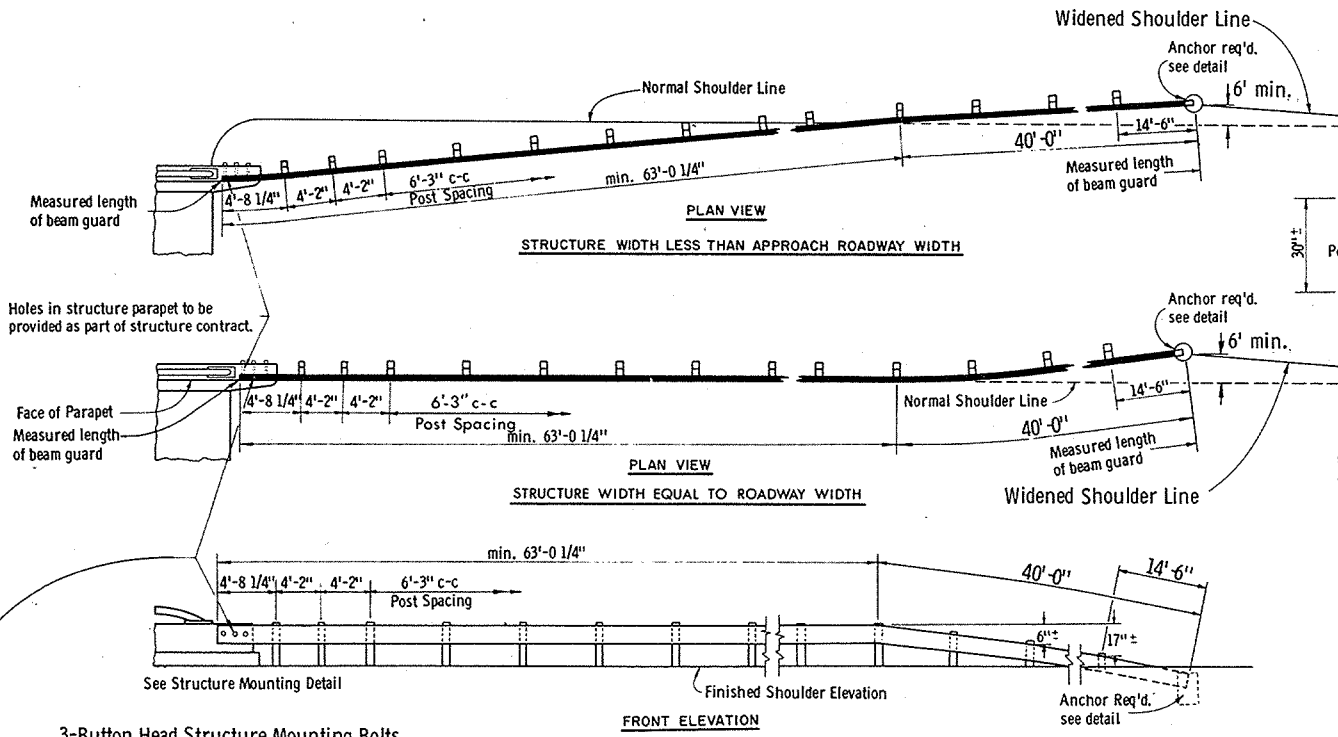
POST-FOOTING DETAIL AT PIERS
The Post-Footing Details shall be used when guardrail posts are over structure footings and less than 3'-6" of earth is provided over the top of the footing.

STEEL PLATE BEAM MEDIAN GUARD
Eliminate offset blocks for medians less than 8 foot in width.

ALTERNATE ANCHORS
Square anchors will be permitted. Square anchors shall be a minimum of 24 inches x 24 inches.

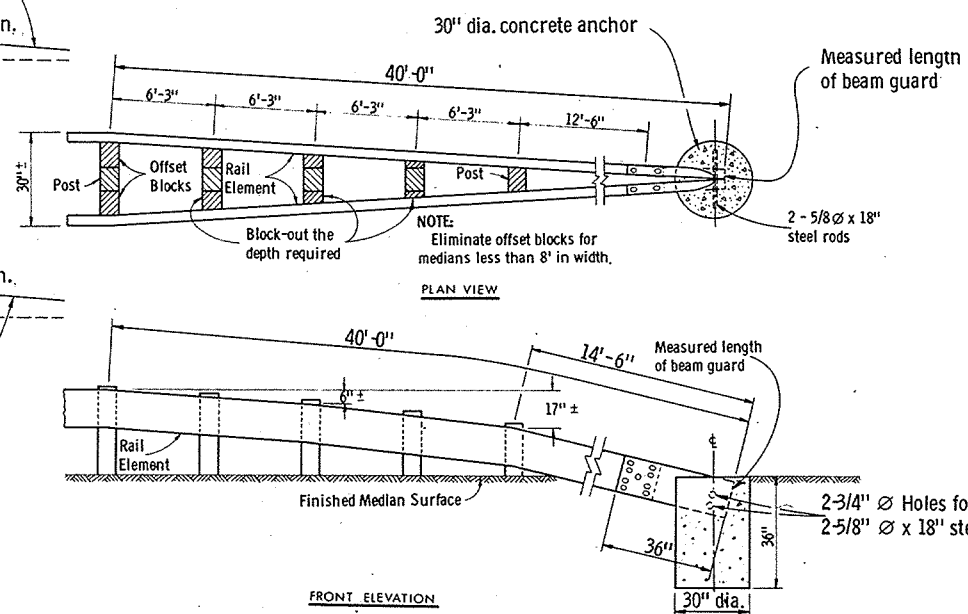
SHOULDER WIDENING
The shoulder widening to accommodate the anchored end of the Guardrail shall be accomplished at a rate of widening not to exceed 50 to 1.

STEEL PLATE BEAM GUARD OR STEEL PLATE BEAM MEDIAN GUARD

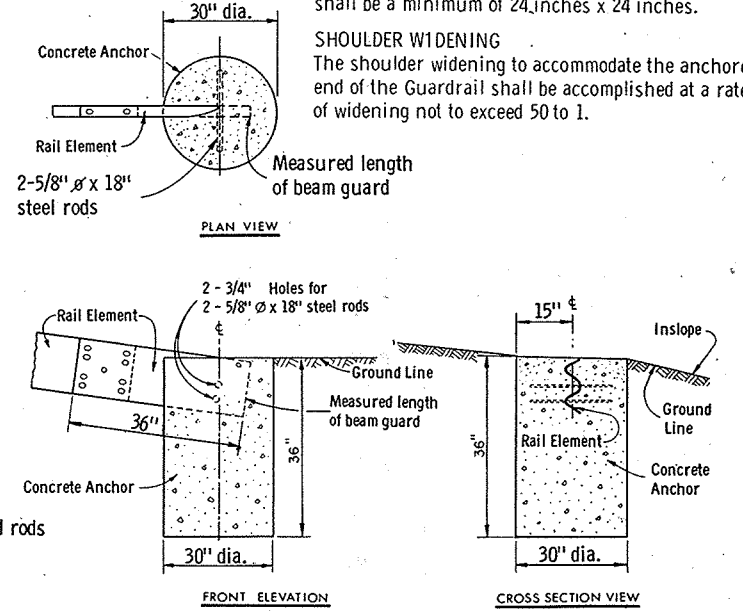


TYPICAL INSTALLATION AT STRUCTURES

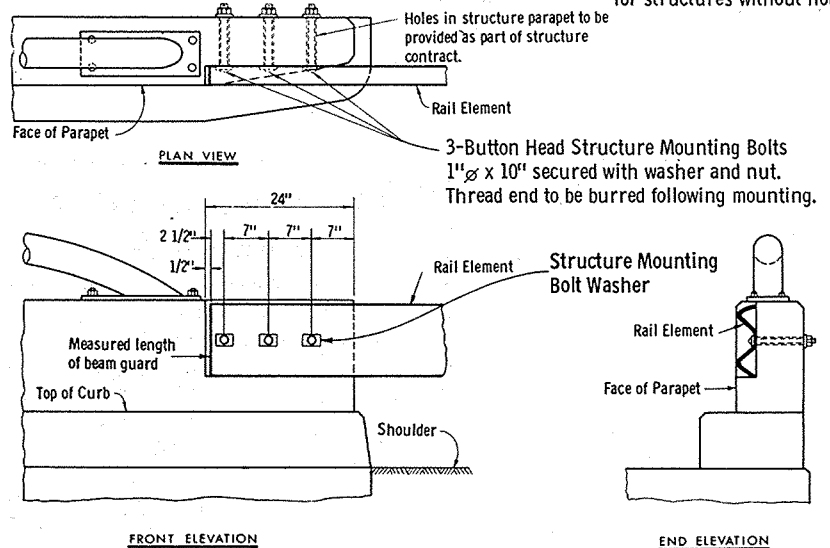
For structures constructed with notch to receive beam guard. See General Notes for structures without notch.



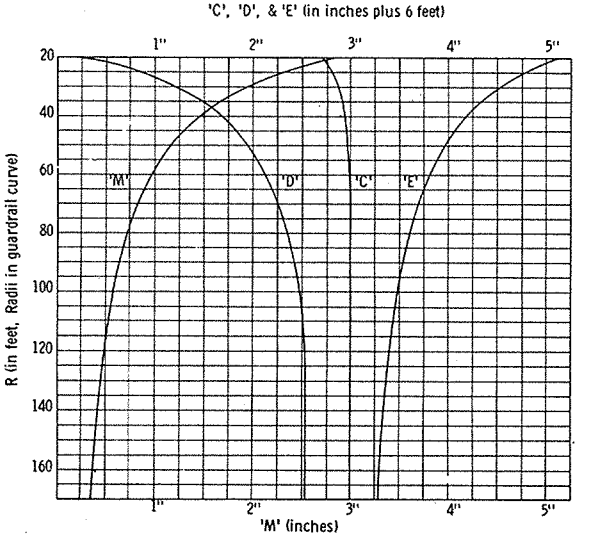
ANCHOR DETAIL
FOR DOUBLE RAIL ELEMENT INSTALLATION



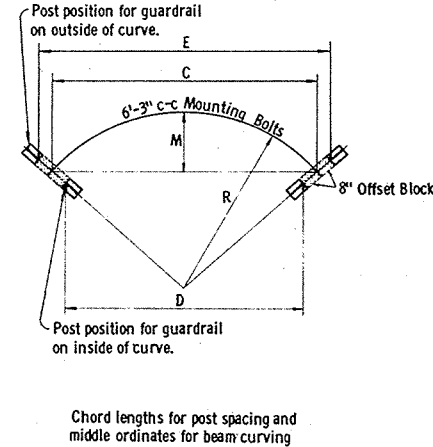
ANCHOR DETAIL
FOR SINGLE RAIL ELEMENT INSTALLATION



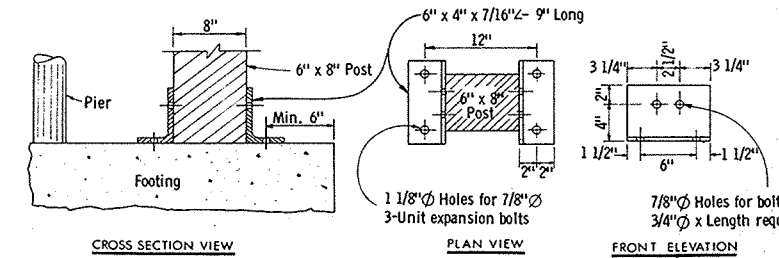
STRUCTURE MOUNTING DETAIL



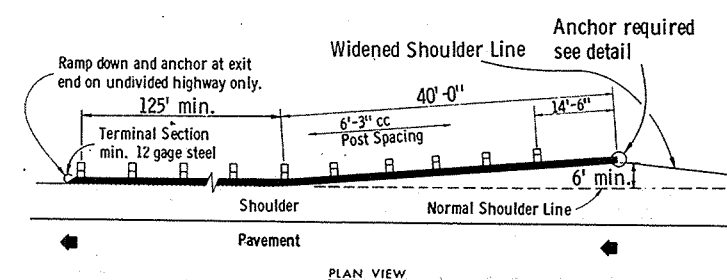
CURVE DATA FOR POST SPACING AND BEAM CURVING



Post position for guardrail on outside of curve.
Post position for guardrail on inside of curve.
Chord lengths for post spacing and middle ordinates for beam curving



POST-FOOTING DETAIL AT PIERS



TYPICAL INSTALLATION AT
LOCATIONS OTHER THAN STRUCTURES

STEEL PLATE BEAM GUARD & STEEL PLATE BEAM MEDIAN GUARD

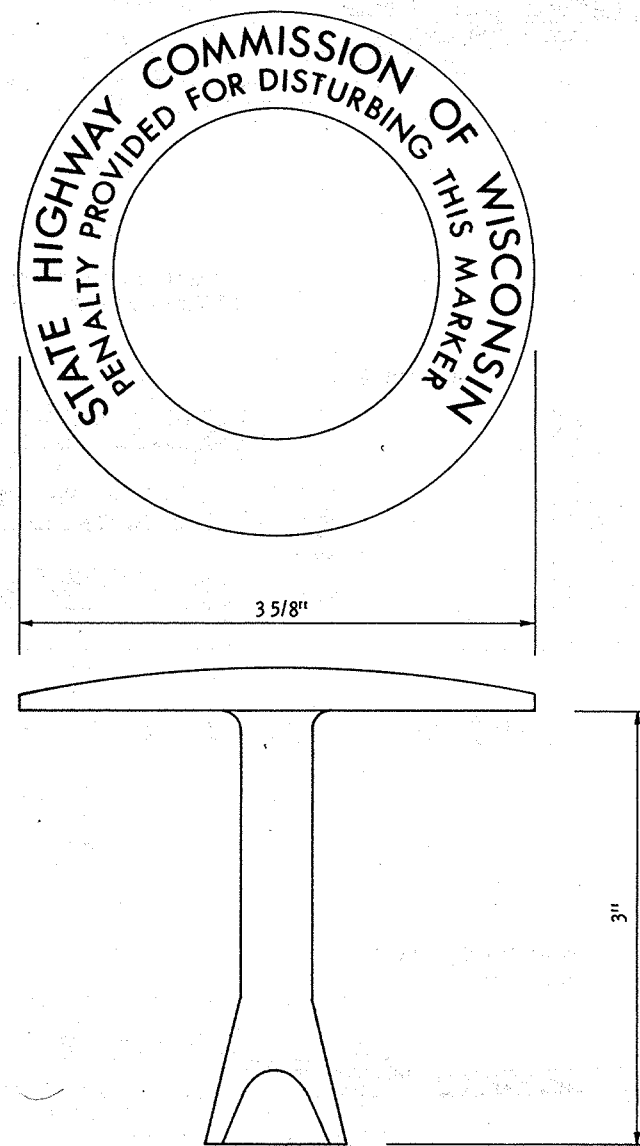
State of Wisconsin
Department of Transportation
Division of Highways

RECOMMENDED FOR APPROVAL:
DATE: 1/25/68
E. J. Buhit
CHIEF DESIGN ENGINEER

APPROVED:
DATE: 2/8/68
L. J. Lummert
STATE HIGHWAY ENGINEER

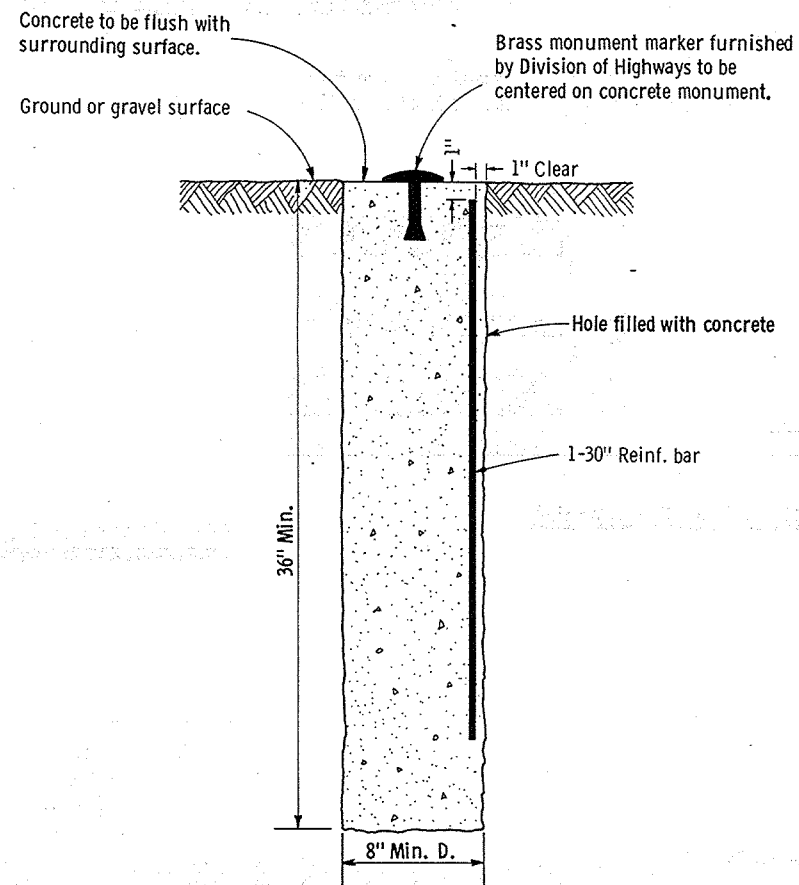
Plate No. 7-24.13

92-22



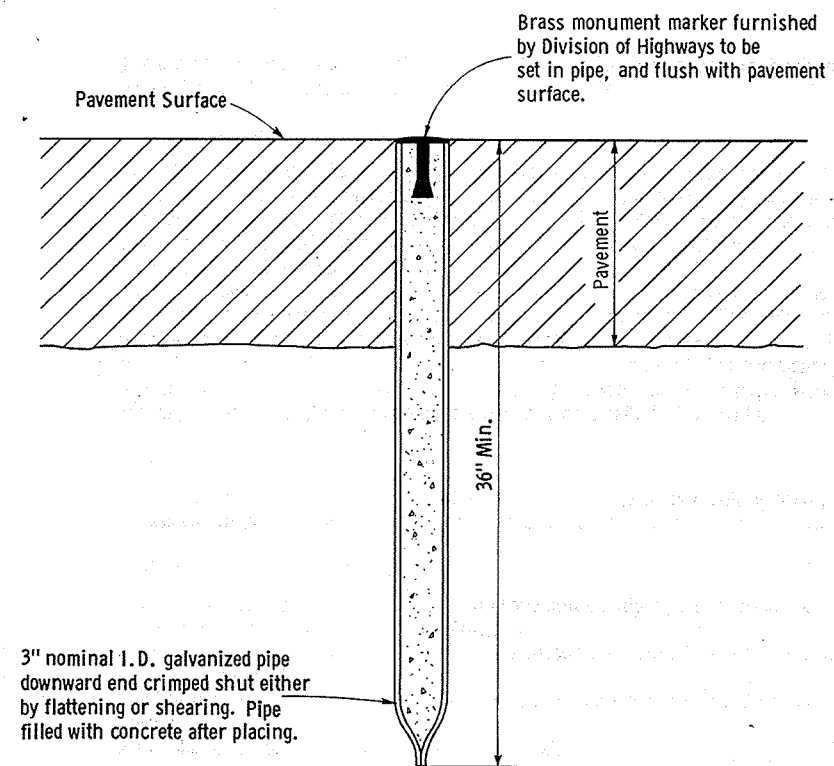
**BRASS
MONUMENT MARKER**

To be furnished to contractor by
Division of Highways



TYPE "A"

To be used only when monument is
required outside of pavement surface.



TYPE "B"

To be used only when monument
is required to be located within the
limits of a pavement surface.

GENERAL NOTES

Details of construction, materials and workmanship not
shown on this drawing shall conform to the Standard
Specifications and the applicable Special Provisions.

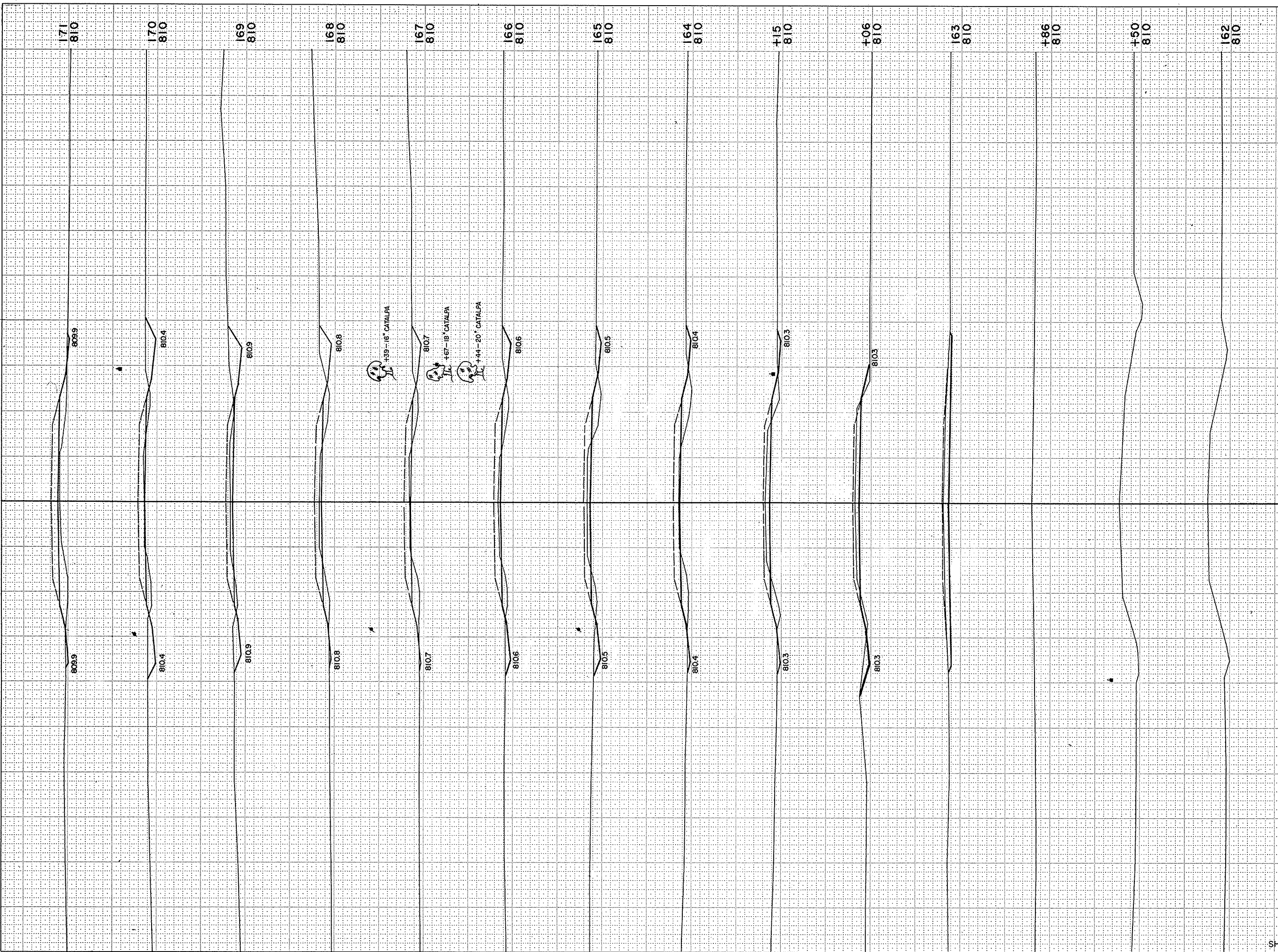
Monuments conforming to Type "A" or Type "B", as
shown hereon, shall be placed at the direction of the
engineer.

**LANDMARK REFERENCE
MONUMENTS**

State of Wisconsin
Department of Transportation
Division of Highways

RECOMMENDED FOR APPROVAL:
DATE: 1/25/68
APPROVED: 2/8/68
E. J. Byrkit
CHIEF DESIGN ENGINEER
H. J. Linnert
STATE HIGHWAY ENGINEER

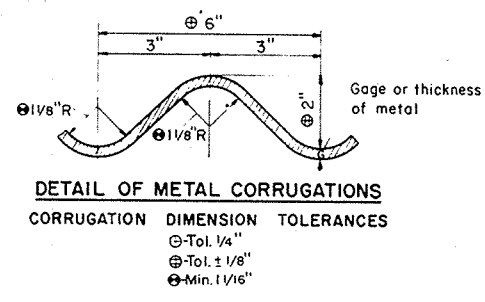
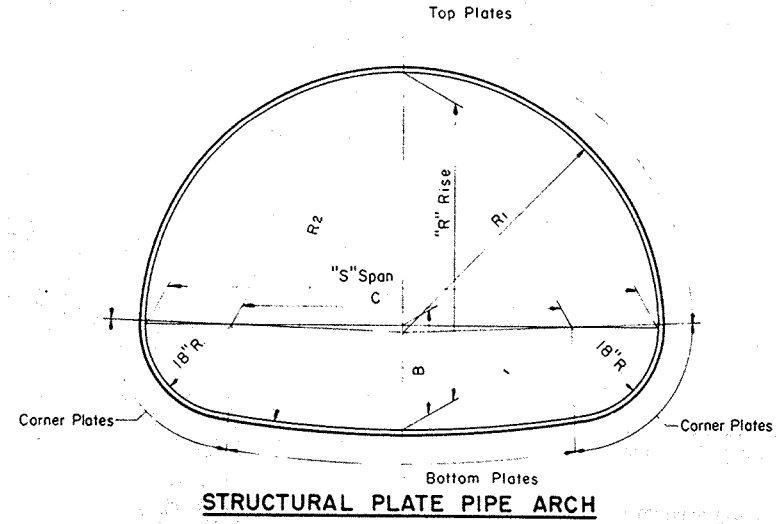
No. 776
 H. E. G.
 P. D. A.
 SURVEY
 No. 776
 H. E. G.
 P. D. A.
 SURVEY
 No. 776
 H. E. G.
 P. D. A.
 SURVEY



B.P.R. REGION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	S 1256 (3)	14	22

SCALE: 1" = 10'

STATION	DISTANCE	YARDAGE	
		UNCL.	FILL
161			
162			
+50			
+86			
163		20	0
+06		15	2
+15		15	6
164		81	96
165		94	120
166		130	87
167		104	100
168		96	104
169		180	52
170		209	39
171		102	135
SHEET TOTAL		1,046	741



GENERAL NOTES
 Details of construction not shown on this drawing shall conform to the pertinent requirements of the Standard Specifications, and the applicable Special Provisions.

TOLERANCES
 Pipe Arch size dimensions are subject to manufacturing tolerances and the ratio of rise (R) to span (S) shall not exceed a tolerance of 5% plus or minus.

Metal corrugation dimension tolerances shall not exceed pertinent dimensions shown elsewhere on this drawing.

EMBANKMENT—Minimum for \mathcal{C} Culverts
 For Flexible Type Pavement, the minimum depth of embankment or cover over top of Pipe Arch (finished construction) shall be "S"/10 or 1'-0" minimum.

For Rigid Type Pavement, the minimum depth of embankment over top of Pipe Arch shall be "S"/14 or a minimum of 6" cushion between pipe and pavement.

EMBANKMENT—Maximum for \mathcal{C} Culverts
 The maximum depth of embankment shall be 15 feet (finished construction).

Adequate cover protection for Pipe Arches shall be provided at all times during construction operations to preclude any damage to structures.

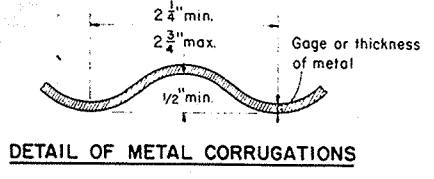
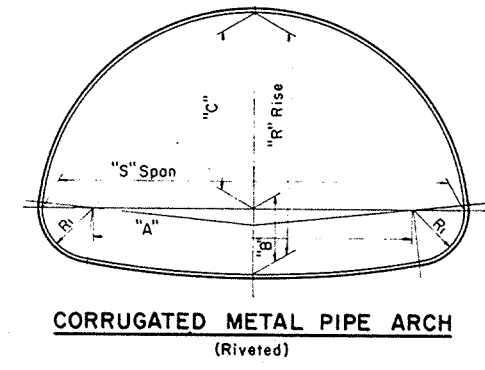
Strutting of Pipe Arches will not be required during construction unless specifically called for on the plans or the applicable Special Provisions.

TABLE OF PROPERTIES
STRUCTURAL PLATE PIPE ARCH

SPAN Nominal Size	Dimensions taken from inside crests of corrugations								Table of Metal Gages - Minimum Acceptable																			
	Fabricators Size Min. Acceptable "S" Span - "R" Rise	R/S Ratio	Area Sq.Ft.	B In.	C In.	R ₁ In.	R ₂ In.	H-20 LOADING																				
								Depth of Embankment in Feet																				
6 Feet	6'-1" x 4'-7"	.75	22	21.0	37.0	36.7	76.4	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
7 "	7'-0" x 5'-1"	.73	28	21.4	48.0	42.3	104.5	10	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
8 "	7'-11" x 5'-7"	.70	35	21.7	59.0	47.7	138.4	10	10	10	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
9 "	8'-10" x 6'-1"	.69	43	21.8	70.0	53.0	179.2	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	8	8
10 "	9'-9" x 6'-7"	.67	52	21.9	81.0	58.3	228.0	8	8	10	10	10	10	10	10	10	10	10	10	10	10	10	10	8	8	8	7	7
11 "	10'-11" x 7'-1"	.65	61	25.1	95.0	65.8	180.8	8	8	8	10	10	10	10	10	10	10	10	8	8	8	8	7	7	5	5	3	3
12 "	11'-10" x 7'-7"	.64	71	25.2	106.0	71.1	217.0	7	8	8	8	8	8	8	8	8	8	8	8	8	8	7	5	5	3	3	1	1
13 "	12'-10" x 8'-4"	.65	85	24.0	118.0	77.2	315.2	5	7	8	8	8	8	8	8	8	8	8	7	7	5	5	3	3	1	1	-	-
14 "	13'-11" x 8'-7"	.62	93	28.9	131.0	84.4	220.8	5	5	7	7	8	8	8	8	7	7	5	5	3	3	1	1	-	-	-	-	-
15 "	14'-10" x 9'-1"	.61	105	28.9	142.0	89.5	254.9	3	5	5	7	7	7	7	7	5	3	3	1	1	-	-	-	-	-	-	-	-
16 "	15'-10" x 9'-10"	.62	122	27.4	154.0	95.4	339.1	1	3	5	5	7	7	7	5	3	3	1	1	-	-	-	-	-	-	-	-	-
16.5 "	16'-7" x 10'-1"	.61	131	28.7	163.0	99.8	333.8	-	1	3	3	5	5	5	3	1	1	1	-	-	-	-	-	-	-	-	-	-

Note: For sizes of Structural Plate Pipe Arch between those shown in the table, the gage shall be interpolated (based on table data) where possible; otherwise the gage of the next larger size shown in the table shall be used.

STRUCTURAL PLATE PIPE ARCH



GENERAL NOTES
 Details of construction not shown on this drawing shall conform to the pertinent requirements of the Standard Specifications, and the applicable Special Provisions.

TOLERANCES
 Tolerance from the dimensions detailing size and shape will be permissible providing equivalent capacity and strength are attained.

EMBANKMENT—Minimum for \mathcal{C} Culverts
 For Flexible Type Pavement, the minimum depth of embankment or cover over top of Pipe Arch (finished construction) shall be "S"/10 or 9" minimum.

For Rigid Type Pavement, the minimum depth of embankment over top of Pipe Arch shall be "S"/14 or a minimum of 3" cushion between pipe and pavement.

EMBANKMENT—Maximum for \mathcal{C} Culverts
 The maximum depth of embankment shall be 10 feet (finished construction).

Adequate cover protection for Pipe Arches shall be provided at all times during construction operations to preclude any damage to structures.

TABLE OF DIMENSIONS
CORRUGATED METAL PIPE ARCH

CORRUGATED METAL PIPE ARCH									Round Pipe of Approx. Equal Periphery	
Gage (Min. Acceptable)	"S" Span Inches	"R" Rise Inches	"A" Inches	"B" Inches	"C" Inches	R ₁ Inches	R/S Ratio	Area Sq.Ft.	Area Sq.Ft.	Diag. Inches
16	18	11	10	4 1/2	6 1/2	3 1/2	.61	1.1	1.23	15
16	22	13	14	4 3/4	8 1/4	4	.59	1.6	1.77	18
16	25	16	17	5 1/4	10 3/4	4	.64	2.2	2.41	21
14	29	18	20	5 1/2	12 1/2	4 1/2	.62	2.8	3.14	24
14	36	22	26	6 1/4	15 3/4	5	.61	4.4	4.91	30
12	43	27	32	7	20	5 1/2	.63	6.4	7.07	36
12	50	31	38	8	23	6	.62	8.7	9.62	42
12	58	36	44	9 1/4	26 3/4	7	.62	11.4	12.57	48
12	65	40	49	10 1/2	29 1/2	8	.62	14.3	15.90	54
10	72	44	54	11 3/4	32 1/4	9	.61	17.6	19.64	60

NOTE: All Dimensions measured from inside crest of corrugations.

CORRUGATED METAL PIPE ARCH

**STRUCTURAL PLATE PIPE ARCH
CORRUGATED METAL PIPE ARCH**

STATE HIGHWAY COMMISSION OF WISCONSIN

RECOMMENDED FOR APPROVAL

DATE 2-5-63

APPROVED: *E. G. Ruttiger*
ENGINEER OF DESIGN

DATE 2/6/63

APPROVED: *E. G. Ruttiger*
STATE HIGHWAY ENGINEER

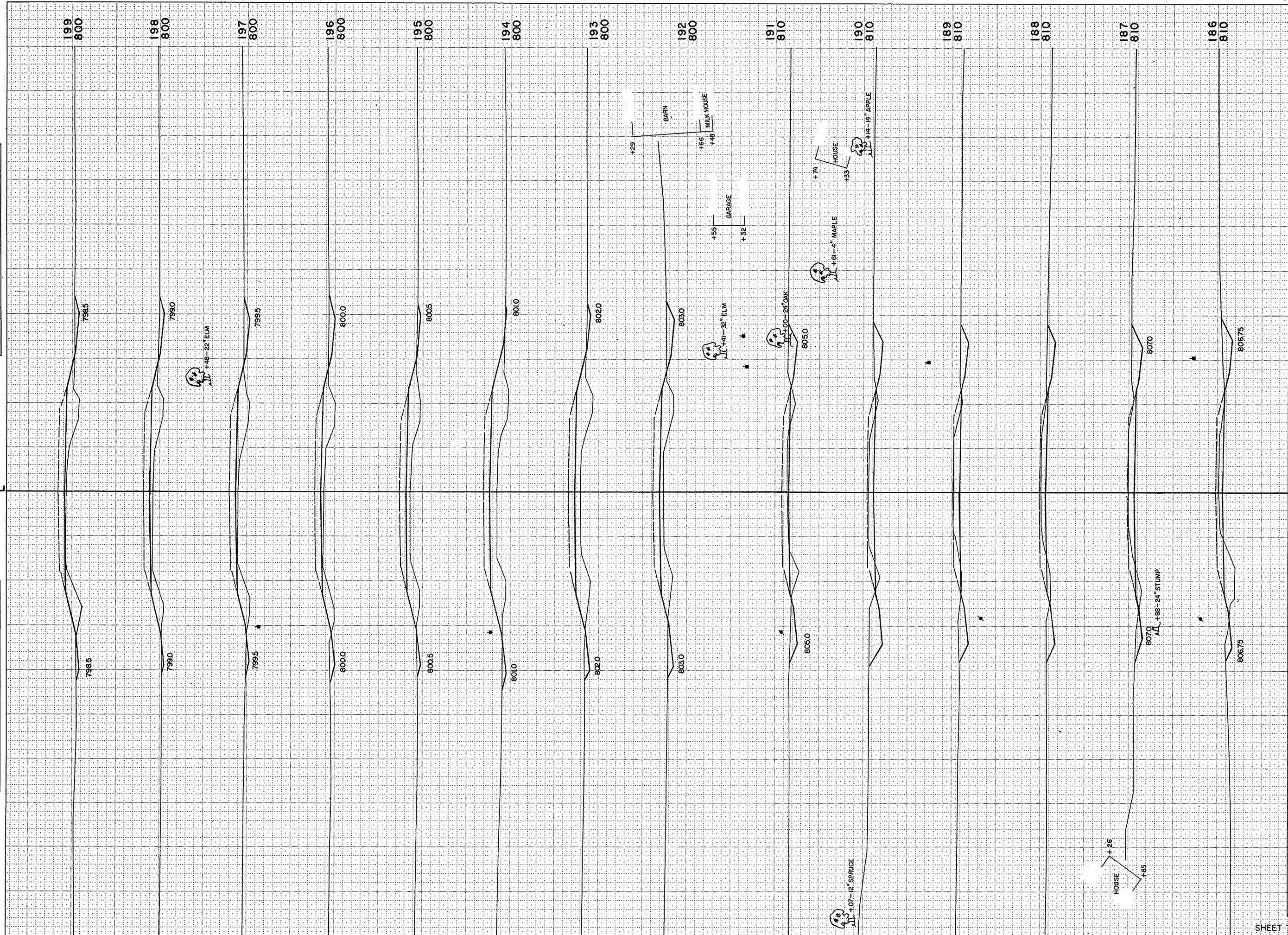
PLATE NO. 6-5.3.2

NO. 775. MEAS. AREAS CHECKED. MEAS. CHECKED.

SURVEY

H.E.B. R.D.A. 11-68 11-68

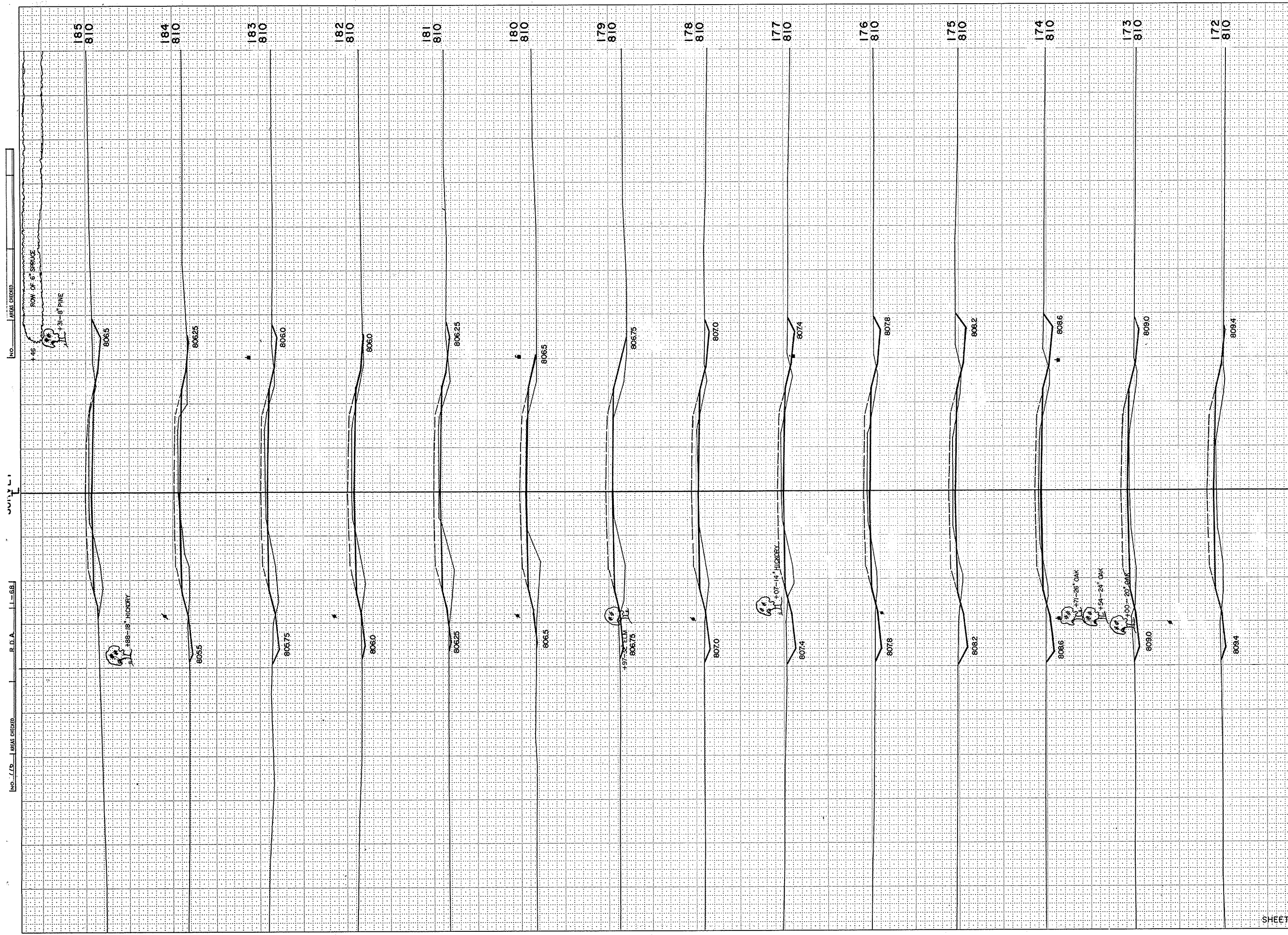
NO. 775. MEAS. AREAS CHECKED. MEAS. CHECKED.



R.P.R. REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	S-1256 (3)	16	22

STATION	DISTANCE	YARDAGE	
		UNCL.	FILL
185		219	89
186		254	65
187		252	20
188		246	9
189		280	19
190		209	57
191		124	191
192		85	356
193		31	433
194		24	374
195		54	274
196		52	233
197		35	204
198		31	200
199			
SHEET TOTAL		1,896	2,524

B.P.W. REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	S 1256 (3)	15	22



STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
	UNCL		
171			
172	32		209
173	46		183
174	130		107
175	198		57
176	156		68
177	140		93
178	113		107
179	39		159
180	15		196
181	37		183
182	72		144
183	109		94
184	107		96
185	122		100
SHEET TOTAL		1,316	1,796

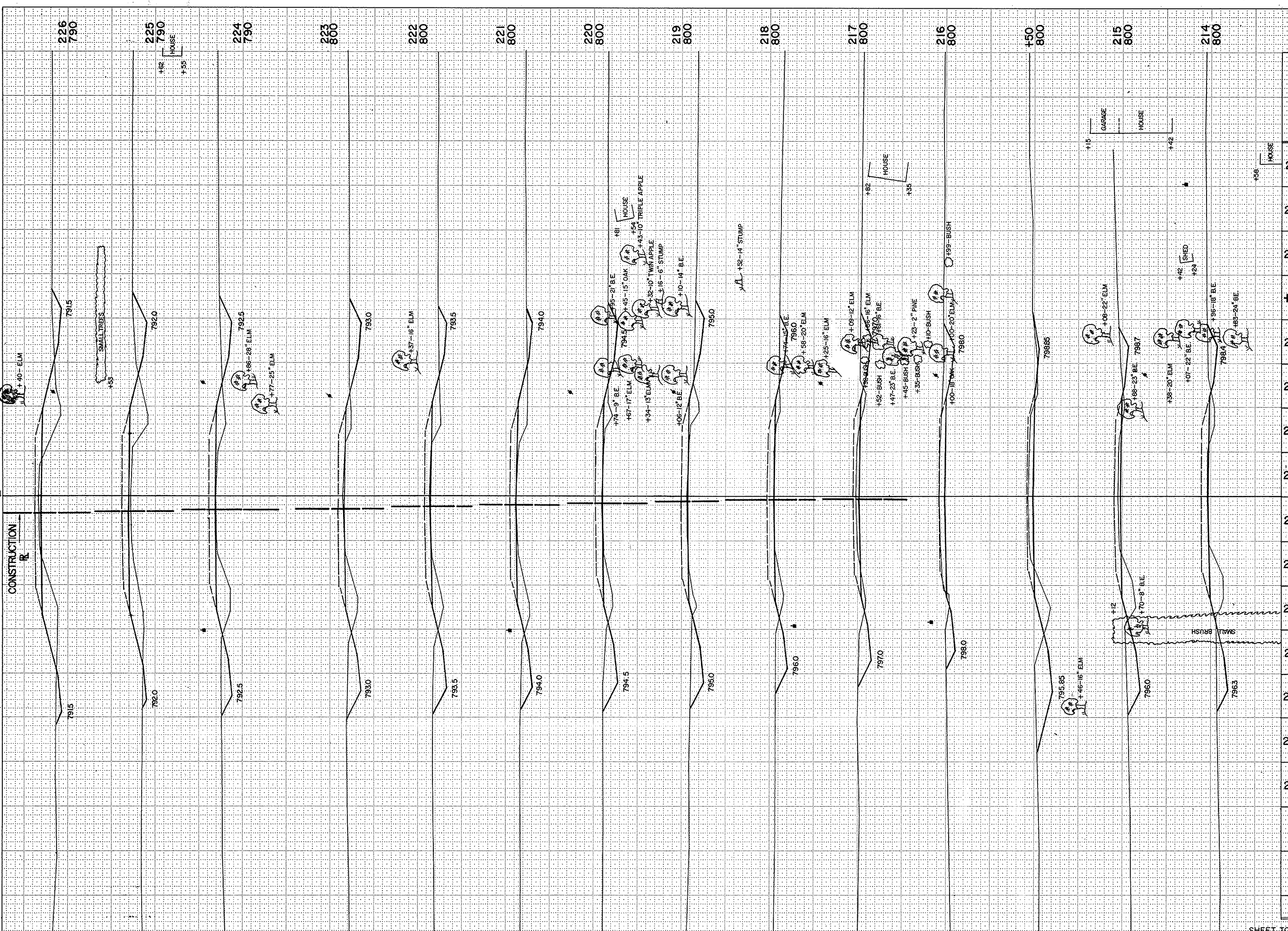
No. 175 | LMS CHECKED | R.D.A. | I-58 | JULY 1 | LMS CHECKED | No. 146

9

NOTE BOOK SERIAL NO. 776
 REVISIONS: 1-2-58, 2-2-58, 3-2-58
 DATE: 1-2-58
 DRAWN BY: R.D.A.
 CHECKED BY: M.C. (M.C. RECORDED)

SURVEY

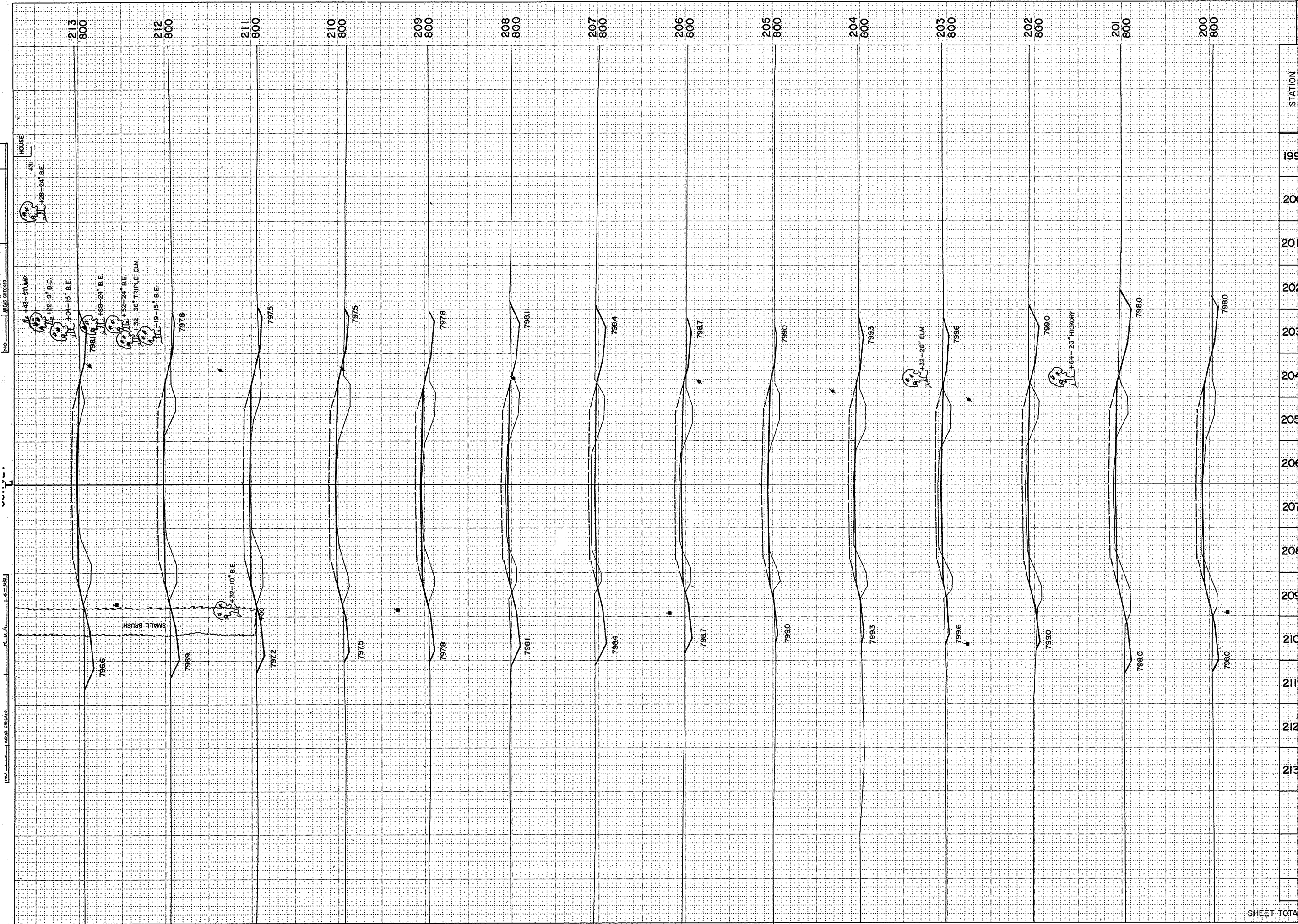
CONSTRUCTION



B.P.R. REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	\$ 1256 (3)	18	22

STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
213	144		137
214	200		141
215	143		52
150	170		26
216	330		20
217	241		72
218	182		93
219	209		85
220	176		152
221	152		191
222	222		154
223	235		176
224	157		274
225	107		352
226			
SHEET TOTAL	2,668		1,925

B.P.R. REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	S 1256 (3)	17	22



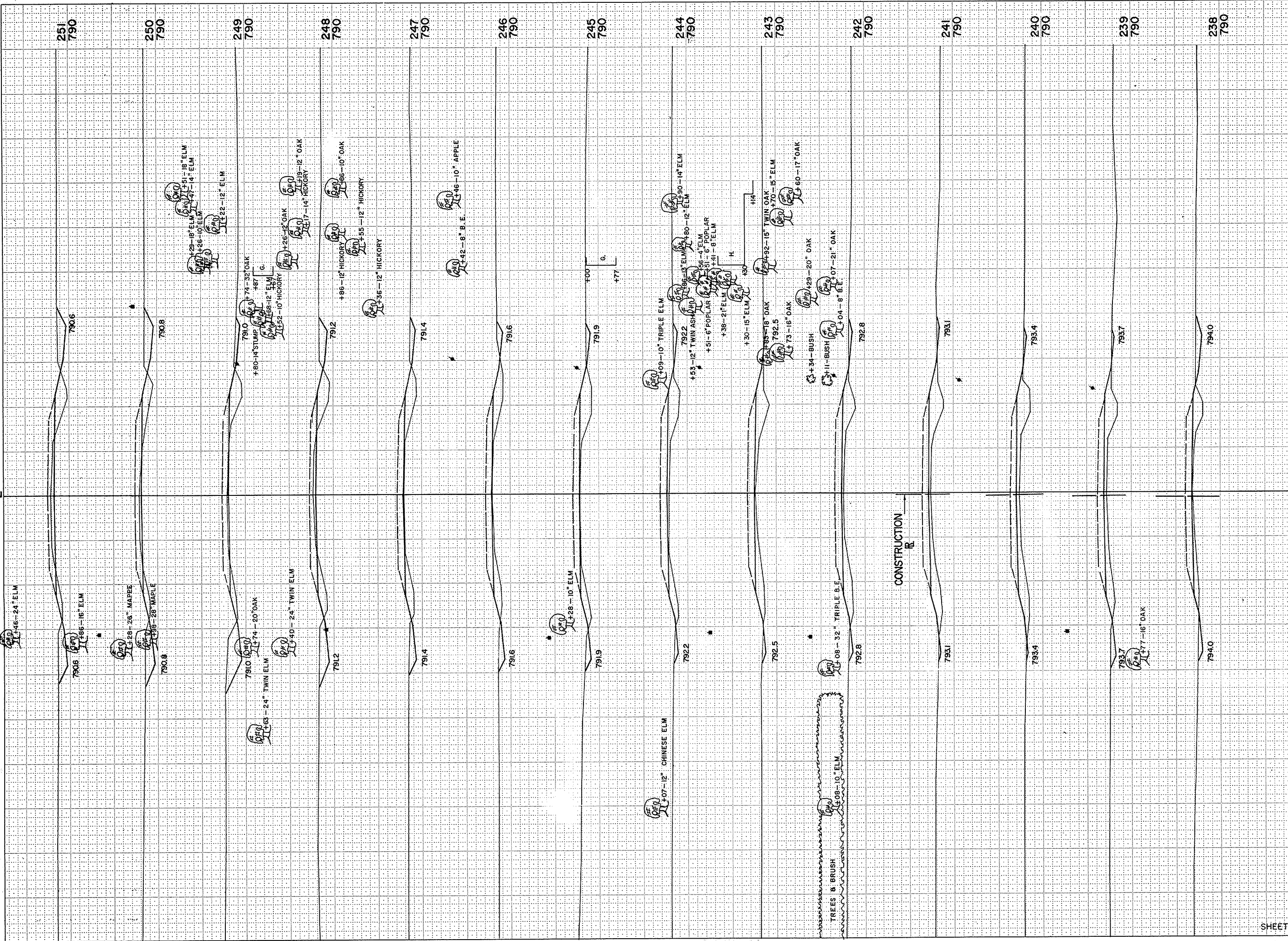
STATION	DISTANCE	YARDAGE	
		EXCAVATION	
		UNCL	FILL
199			
200	41		228
201	109		220
202	152		159
203	139		122
204	98		137
205	56		152
206	67		130
207	191		93
208	248		85
209	130		154
210	54		230
211	65		254
212	85		241
213	109		163
SHEET TOTAL	1,544		2,368

B.P.W. REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	S 1256 (3)	20	22

NOTE BOOK INITIALS
DATE
NO.

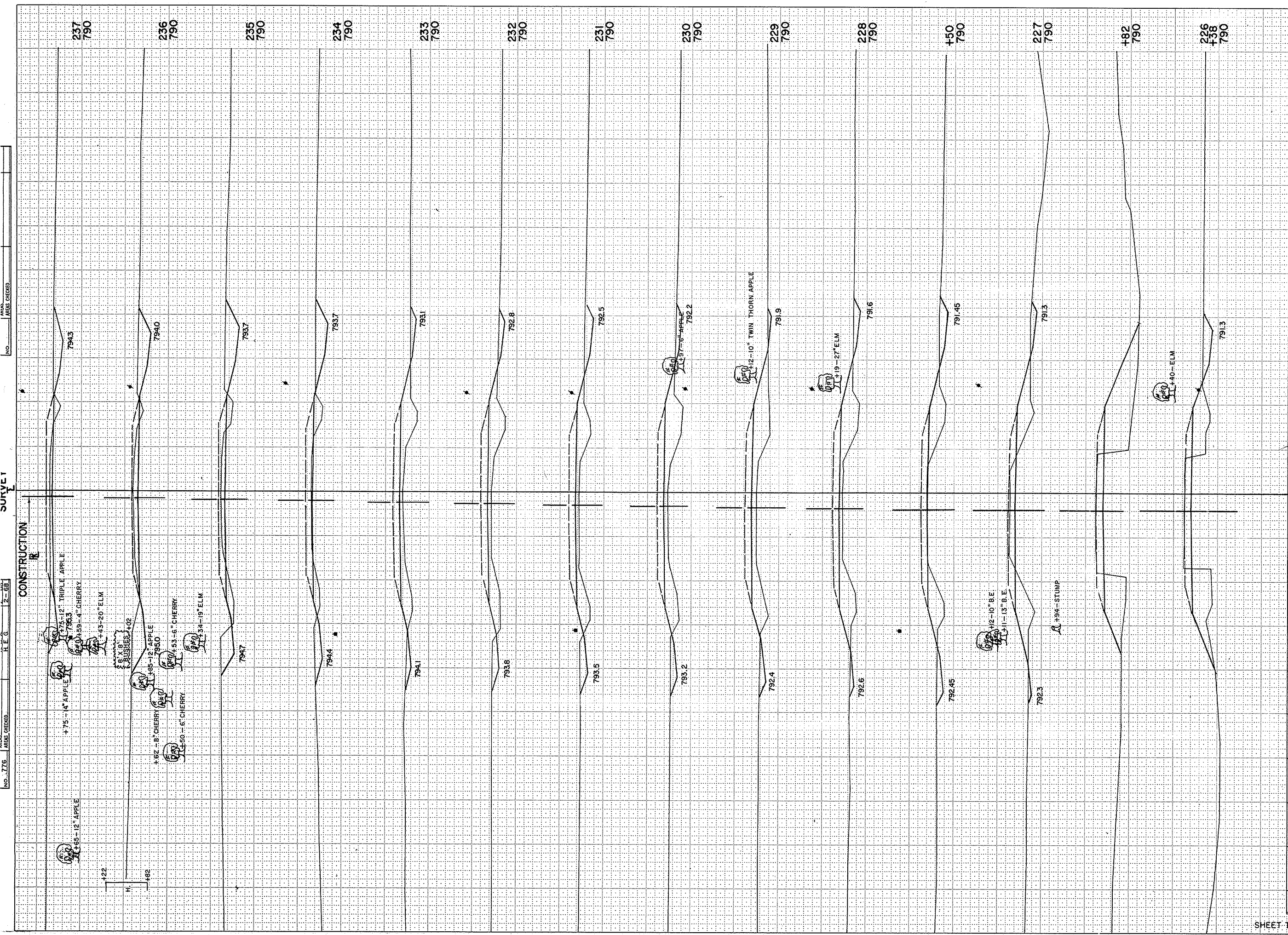
SURVEY

NO. 776
R.D.A.
H.E.G.
2-68
2-68



STATION	YARDAGE		
	DISTANCE	EXCAVATION	
		UNCL.	FILL
237			
238	178		83
239	57		196
240	29		257
241	18		265
242	26		256
243	28		259
244	31		246
245	46		215
246	57		194
247	72		169
248	146		152
249	196		135
250	185		115
251	209		115
SHEET TOTAL	1,278		2,657

B.P.R. REGION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	S 1256 (3)	10	22



STATION	DISTANCE	YARDAGE	
		UNCL	FIL
226		65	148
+38		0	0
+82		32	89
227		74	157
+50		52	182
228		70	435
229		83	443
230		120	365
231		120	322
232		91	337
233		161	219
234		304	96
235		365	48
236		320	13
237			
SHEET TOTAL		1,857	2,854

NO. 775 AREAS CHECKED H.E.G. 2-58 SURVEY L NO. 776 AREAS CHECKED

270
790

441
790

+32
790

+13
790

269
790

268
790

267
790

266
790

265
790

264
790

263
790

262
790

R.R. REGION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	S (256 13)	22	22

STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
261			
262	389		118
263	341		146
264	287		180
265	276		187
266	294		185
267	307		182
268	293		194
269	198		184
+13	15		38
+32	0		0
+41	24		28
270	117		144
272	148		153

39'-30" TRIPLE ELM

44'-2" E.E.

35'-0" CHINESE ELM

788.0

788.0

788.1

788.1

788.2

788.2

788.3

788.3

788.4

788.4

788.5

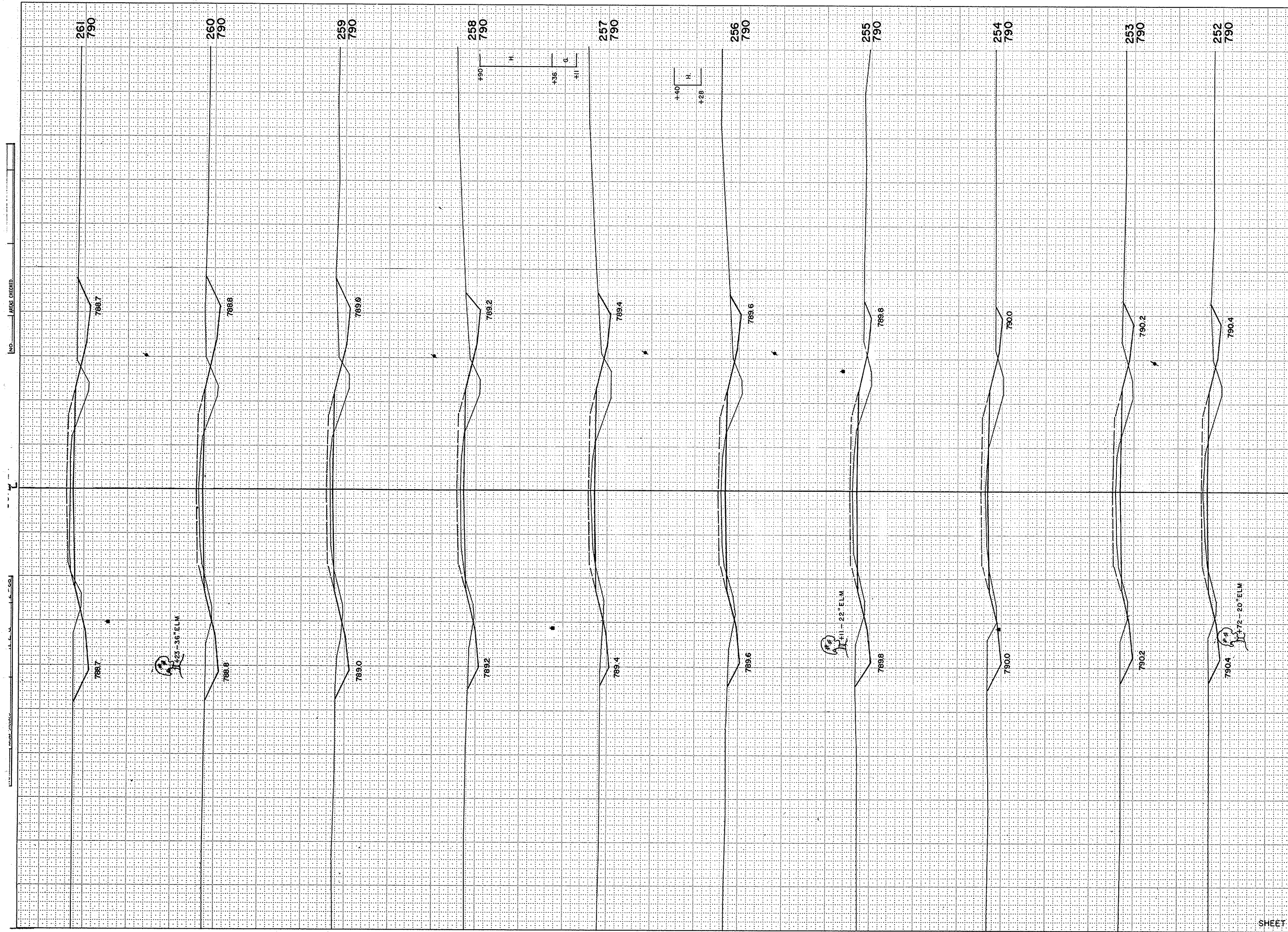
788.5

788.6

788.6

SHEET TOTAL 2,689 171

R.P.R. REGION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4	S 1256 (3)	21	22
WIS			



STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
		UNCL.	
251			
	239		124
252			
	263		120
253			
	246		133
254			
	248		137
255			
	276		131
256			
	254		165
257			
	272		161
258			
	315		141
259			
	363		130
260			
	411		111
261			
SHEET TOTAL		2,887	1,353