

M-I

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Sheet Number	Total Sheets
1	32

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

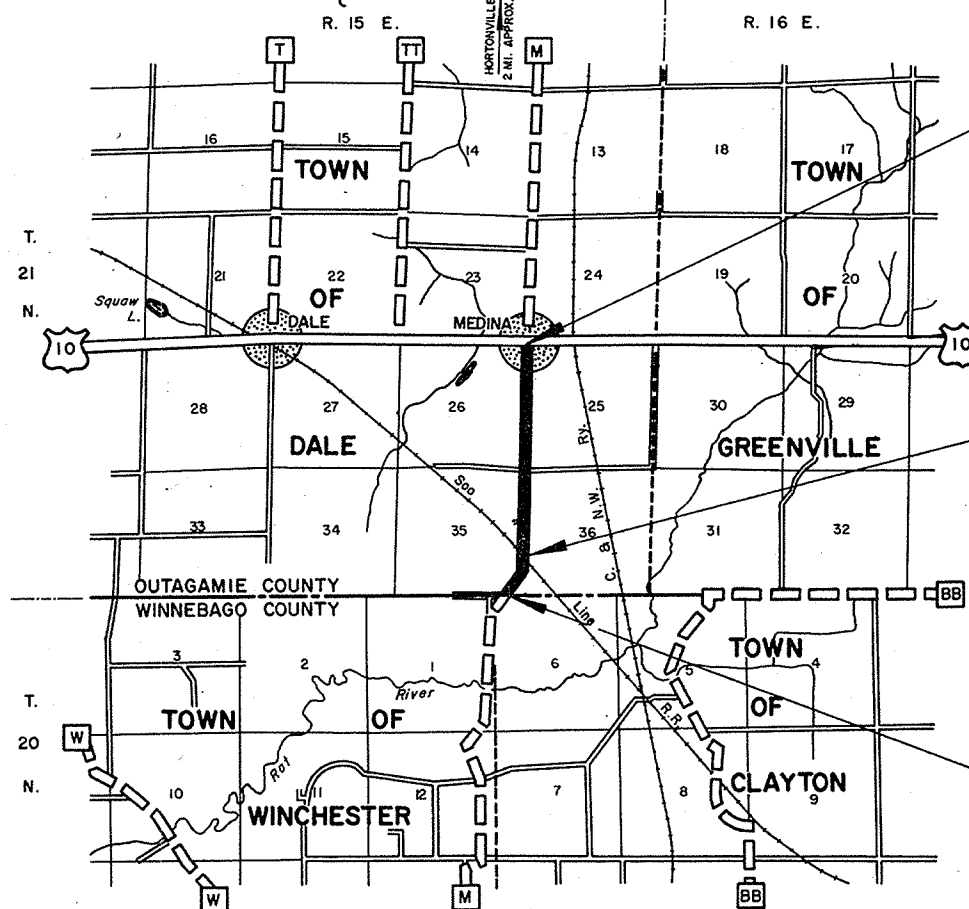
PLAN AND PROFILE OF PROPOSED
SOUTH COUNTY LINE — HORTONVILLE ROAD

SOUTH COUNTY LINE — U.S.H. 10 SECTION

C.T.H. "M"
OUTAGAMIE COUNTY

PROJECT IDENTIFICATION NUMBER	FEDERAL PROJECT DESIGNATION
6019-2-71,72	S 0395 (3)

Scales
Plan 1 in. = 100 ft. & 20 ft.
Profile Hor. 1 in. = 100 ft. & 20 ft. Vert. 1 in. = 10 ft. & 2 ft.
Cross Sections Hor. 1 in. = 5 ft. Vert. 1 in. = 5 ft.



END OF PROJECT S 0395 (3) / 6019-2-71,72
STA. 134+12
11.1' S. 1°-38' W. OF THE INTERSECTION OF U.S.H. 10

STA. 46+56.25 — STA. 46+76.41
EXCEPTION TO NET & LENGTH

BEGINNING OF PROJECT S 0395 (3) / 6019-2-71,72
STA. 25+00
853.5' WEST OF THE SOUTH-WEST
CORNER OF SECTION 36, T. 21 N. R. 15 E.

Layout
Scale ONE MILE
Total Net Length of Centerline = 2.063 Mi. Rural

RECEIVED

MAR 21 1972



OUTAGAMIE COUNTY
HIGHWAY COMMISSION

Design Designation

A.D.T. 1972	370
A.D.T. 1992	730
D.H.V.	95
D.	50% - 50%
T.	9%
V.	50 M.P.H.

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 Woven	— — — — —	Reference Stake for Hubs Only	— — — — —
Wire Fence Barbed	— — — — —	Marsh	— — — — —
Lot Line	— — — — —	Hedge	— — — — —
Corporate or City Limits	— — — — —	Trees	— — — — —
Property Line	— — — — —	Ground Elevation	Datum Line 72.9
Traveled Way or P.E.	— — — — —	Grade Elevation	Datum Line 70.8
Railroads	— — — — —	Corrugated Metal Culvert Pipe	CM.CP
Base or Survey Line	— — — — —	Field Entrance	F.E.
Reinforced Concrete Pipe, Storm Sewer R.C.P., S.S.	— — — — —	Private Entrance	P.E.
Culvert Pipe	— — — — —		

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	
Surveyor: D.G.N.	Note Book: 907,908
District Computer: M.M. J.E.F.	M.O. Checker: L.L.J.
District Checker: R.G.P. R.M.N.	Correct
Correct:	
Date: 1-25-72	H.Z. Fiedler
Recommended for Approval: District Engineer	
Date: 1-28-72	J.C. Hennrich
Approved: Chief Design Engineer	
Date: 1/31/72	S.E. Hicks
State Highway Engineer	
U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION BUREAU OF PUBLIC ROADS	
REGION 4 WISCONSIN DIVISION	
Approved:	
Date:	Division Engineer

ESTIMATE OF QUANTITIES

THIS PROJECT IS TO BE EXECUTED UNDER THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OF THE WISCONSIN DIVISION OF HIGHWAY - EDITION OF 1969, APPROVED MARCH 3, 1969, FEDERAL AID REQUIRED CONTRACT PROVISIONS APPROVED NOVEMBER 15, 1968 AND SPECIAL PROVISIONS AS ATTACHED TO PROPOSALS.

CONTRACT NO. 1 (6019-2-71)

GRADE, SUBBASE

6019 - 2 - 71, 72

CONTRACT NO. 2 (6019-2-72)

BASE

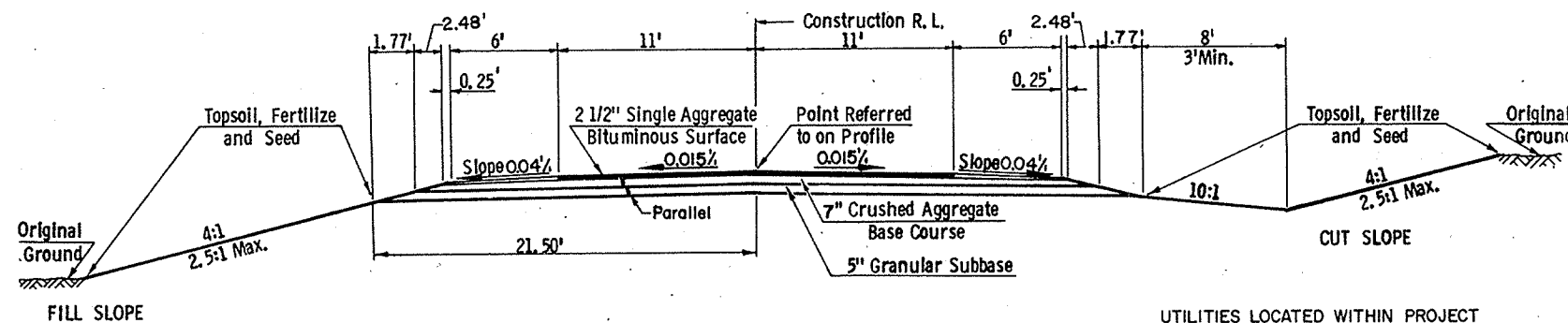
S 0395 (3)

2

32

CONTRACT	STATION TO STATION	NET LENGTH OF CENTER LINE	Clearing		Grubbing		Excavation		Granular Subbase Course 5 Inch	Finishing Roadway	Producing & Hauling Crushed Aggregate Base Course	Shaping & Compacting Crushed Aggregate Base Course	Culvert Pipe Class III			Apron Endwalls for Culvert Pipe			Concrete Curb & Gutter 30 Inch Type "D"	Reinforced Concrete Pipe Class III Storm Sewer 24 Inch	Inlet Type 3	Inlet Covers Type "H"	Marker Posts	Landmark Reference Monuments	Calcium Chloride Surface Treatment	Salvaged Topsoil	Erosion Mat	Fertilizer	Seeding	Field Office Type "A"
			Unclassified	Borrow	Unclassified	Borrow	C. Y.	C. Y.					18 Inch	24 Inch	48 Inch	18 Inch	24 Inch	48 Inch												
	ITEM NO.		20101	20102	20104	20105	20503	20801	21205	21301	90001	90001	52003	52005	52011	52061	52063	52069	60133	60829	61123	61167	61421	62101	62301	62505	62802	62901	63002	64201
	UNIT	LIN. FT.	Sta.	In. Dia.	Sta.	In. Dia.	C. Y.	C. Y.	S. Y.	L. S.	Ton	Ton	L. F.	L. F.	L. F.	Each	Each	Each	L. F.	L. F.	Each	Each	Each	Each	Ton	S. Y.	S. Y.	CWT.	LB.	L. S.
1	25 + 00 - 134 + 12	10,892.16	1	1,180	1	1,205	33,572	2,636	53,100	1		20,000	644	486	106	46	16	2					33	9	22	50,500	3,900	23	910	1
2	25 + 00 - 134 + 12										20,000																			
	TOTALS	10,892.16	1	1,180	1	1,205	33,572	2,636	53,100	1	20,000	20,000	644	486	106	46	16	2	1150	128	2	2	33	9	22	50,500	3,900	23	910	1

* Indicates no federal participation and not a part of these contracts.



TYPICAL FINISHED SECTION

Sta. 19 + 00 - 129 + 00 Lt.
Sta. 19 + 00 - 130 + 00 Rt.

UTILITIES LOCATED WITHIN PROJECT

Wisconsin - Michigan Power Company
Wisconsin Telephone Company
Michigan - Wisconsin Pipe Line Company
Soo Line Railroad Company
Village Of Medina

CRUSHED AGGREGATE BASE COURSE	
LOCATION	TONS
Mainline	18,450
Town Road @ 81 + 49.9	900
Private Entrance	650

GRANULAR SUBBASE COURSE			
STATION TO STATION	LOCATION	S. Y.	APPROX. C. Y.
19 + 00 - 134 + 12	Mainline	53,100	8,500

EXCAVATION			
STATION TO STATION	LOCATION	UNCLASS. C. Y.	BORROW C. Y.
19 + 00 - 134 + 00	Mainline	27,283	2,636
Town Road	81 + 49.9	6,289	-

CLEARING & GRUBBING.					
STATION TO STATION		CLEARING		GRUBBING	
		STA.	IN. DIA.	STA.	IN. DIA.
20+00	-	48+00	40		40
48+00	-	81+00	830		830
81+00	-	130+00	280		305
130+00	-	131+00	1	1	1
131+00	-	133+00	30		30

MARKER POSTS FOR SHOULDER DELINEATION			
STATION TO STATION	LOCATION	C. C.	EACH
123 + 00 - 126 + 00	Rt.	50'	7
122 + 40 - 125 + 90	Lt.	50'	8
Undistributed	-	-	18

LANDMARK REFERENCE MONUMENTS		
STATION	LOCATION	EACH
55 + 14.10	L	3
81 + 49.90	L	3
107 + 73.10	L	3

EROSION MAT		
STATION TO STATION	LOCATION	SQ. YD.
72 + 20 - 85 + 00	Lt. & Rt.	2,280
85 + 00 - 87 + 00	Lt.	180
92 + 00 - 94 + 70	Rt.	240
102 + 00 - 104 + 00	Lt.	180
122 + 00 - 124 + 40	Rt.	210
125 + 00 - 129 + 00	Lt. & Rt.	710
129 + 00 - 129 + 80	Rt.	100

SEEDING		
MIXTURE	LBS.	SQ. YDS.
Seed Mixture No. 2	910	50,500

INLETS, COVERS, AND STORM SEWER						
STATION	LOCATION	INLET TYPE	INLET COVER TYPE	STORM SEWER		
				DIAM.	LENGTH	TYPE
133 + 98	26' Rt.	3	"H"	24"	54'	R. C. P. CL. III
133 + 96	26' Lt.	3	"H"	24"	74'	R. C. P. CL. III

CULVERT PIPE				
STATION	LOCATION	DIAMETER INCHES	LENGTH FEET	TYPE
23 + 82	R. L.	24	52	C. P. CL III
25 + 12	"	24	48	"
37 + 35	"	24	70	"
46 + 85	"	24	72	"
72 + 20	"	24	54	"
84 + 36	"	24	68	"
94 + 70	"	24	76	"
110 + 12	"	24	46	"
124 + 40	"	48	106	"
23 P.E. @ 28'	P. E. & F. E.	18	644	"

GENERAL NOTES

The exact location and limits for driveways shall be determined by the Engineer in the field.
Private utility companies shall adjust or move all privately owned facilities to fit the new construction.
Curb and gutter radii shown are to front face of curb.

Bituminous surfacing is not a part of these contracts.
Curb and gutter, 24 inch R.C.P. (S.S.), inlets and inlet covers are not a part of these contracts.

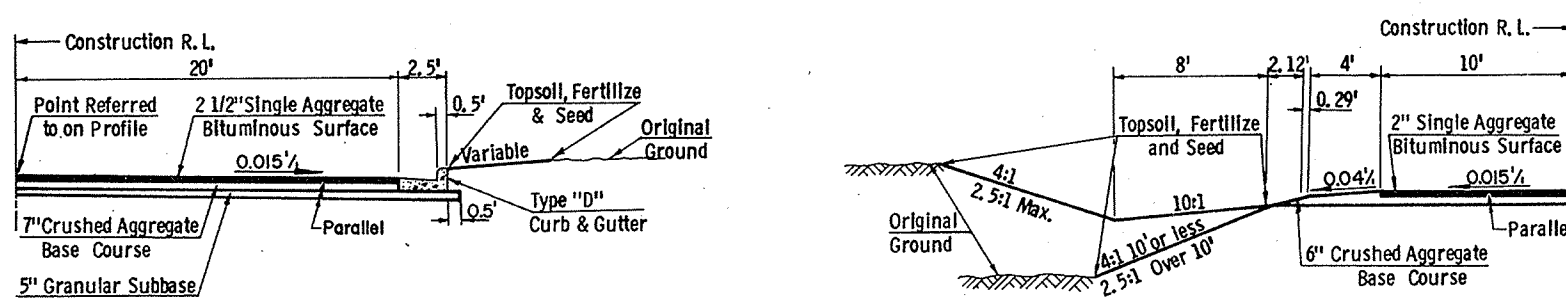
Salvaged topsoil shall be placed as required to an approximate depth of three inches at the time of placing.
The village of Medina shall adjust or move all municipally owned facilities to fit the new construction.

Cubic yards of fill as shown on the plan sheets pertains to embankments constructed from unclassified and borrow excavation and was computed with a shrinkage allowance of 30-45% for unclassified excavation and 25% for borrow excavation based on the volume of the fill.

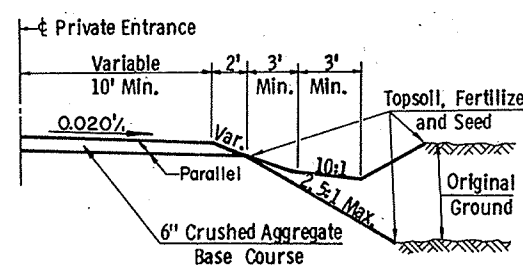
When the quantity of the item of crushed aggregate base course is measured for payment by the ton, the depth or thickness will depend on the distribution of the material as directed by the engineer.

STANDARD DETAIL DRAWINGS

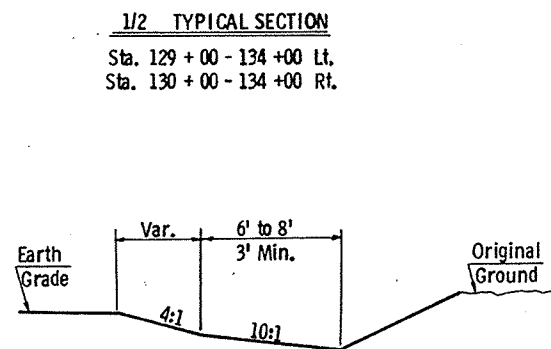
Apron Endwalls for Culvert Pipe 8F1-1
Marker Posts 15A1-1
Construction Barricade 15C1-1
Design & Layout Details for Side Road at Grade Intersection 9A1-1
Landmark Reference Monuments 16A1-1



1/2 TYPICAL SECTION FOR SIDE ROADS

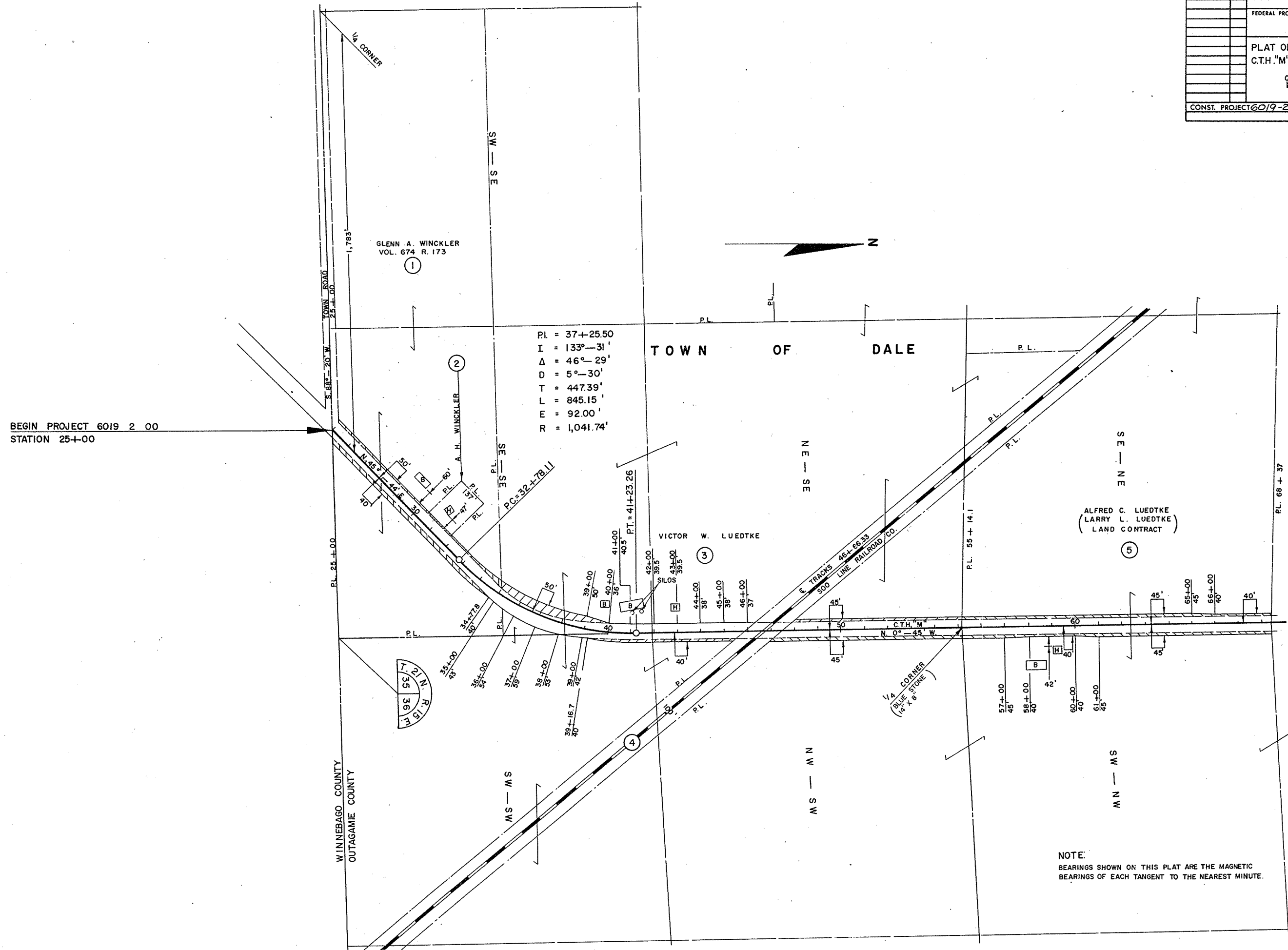


1/2 SECTION FOR PRIVATE ENTRANCES

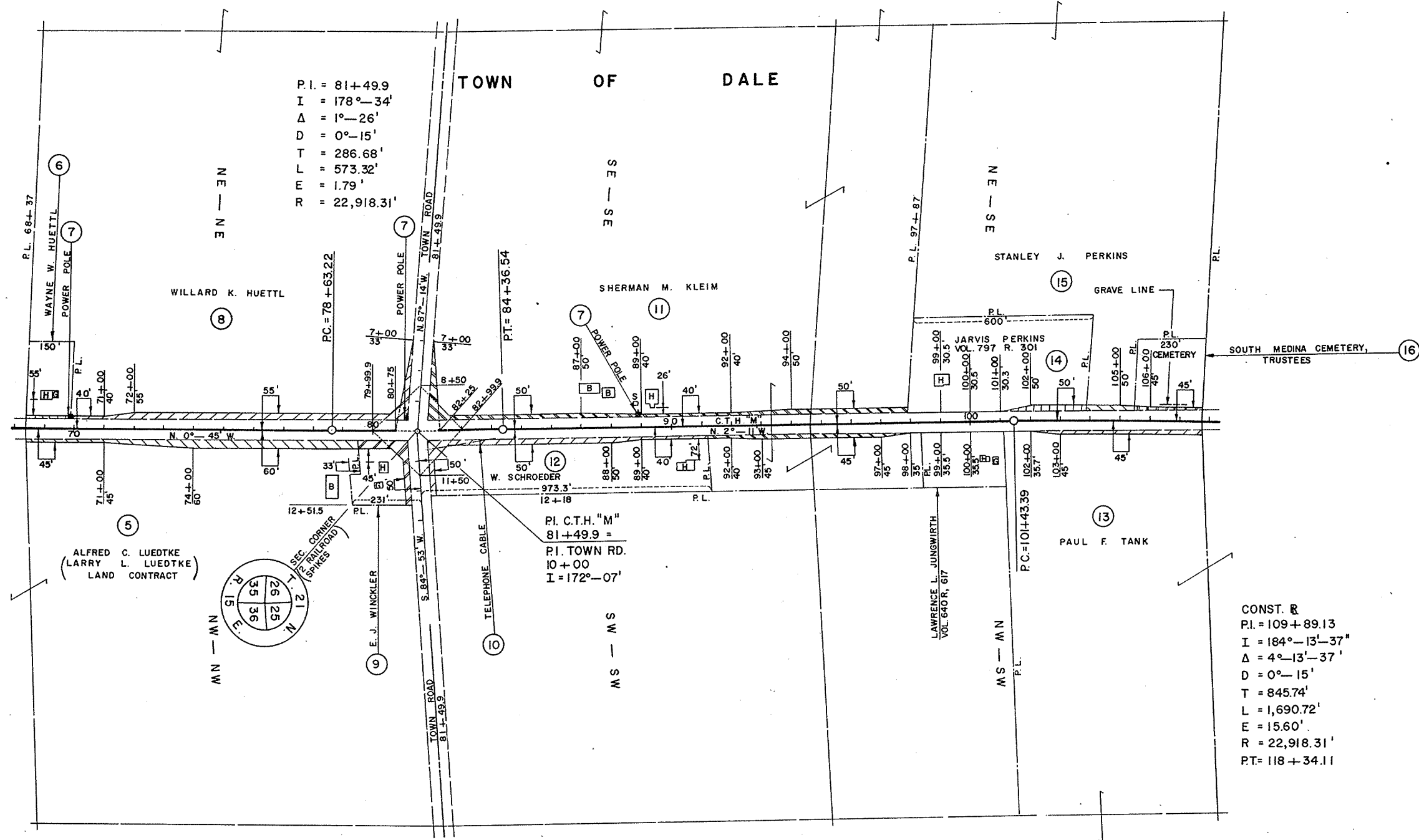


SPECIAL DITCH CROSS SECTION

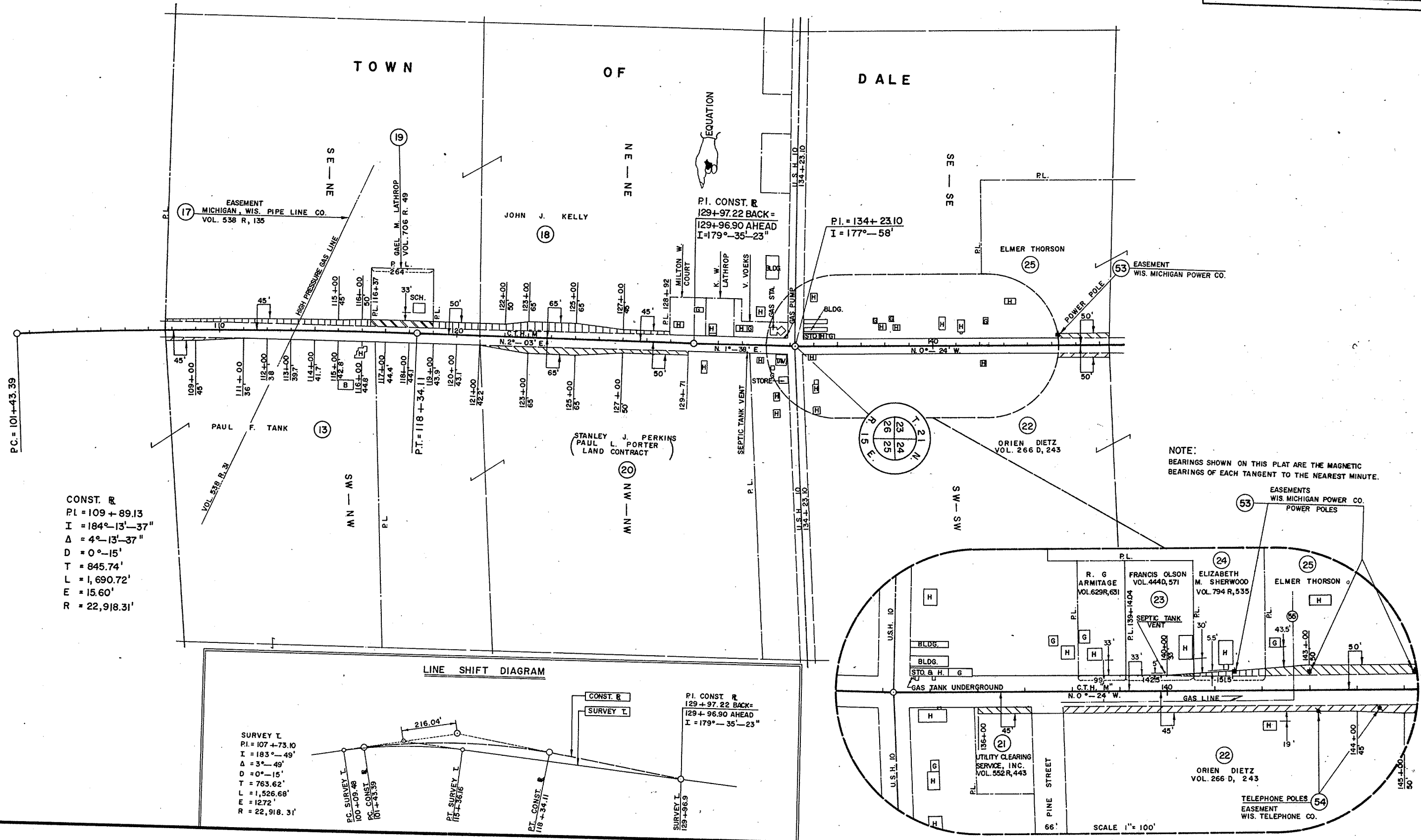
REVISION	DATE	PROJECT I.D.	SHEET NUMBER	TOTAL SHEETS
		6019 2 00	4.1	
FEDERAL PROJECT DESIGNATION				
PLAT OF RIGHT OF WAY REQUIRED				
C.T.H. "M" OUTAGAMIE COUNTY				
SCALE 0 400 Ft.				
DATE 6-23-70				
CONST. PROJECT 6019-2-71.72 50395(9) 3-32				



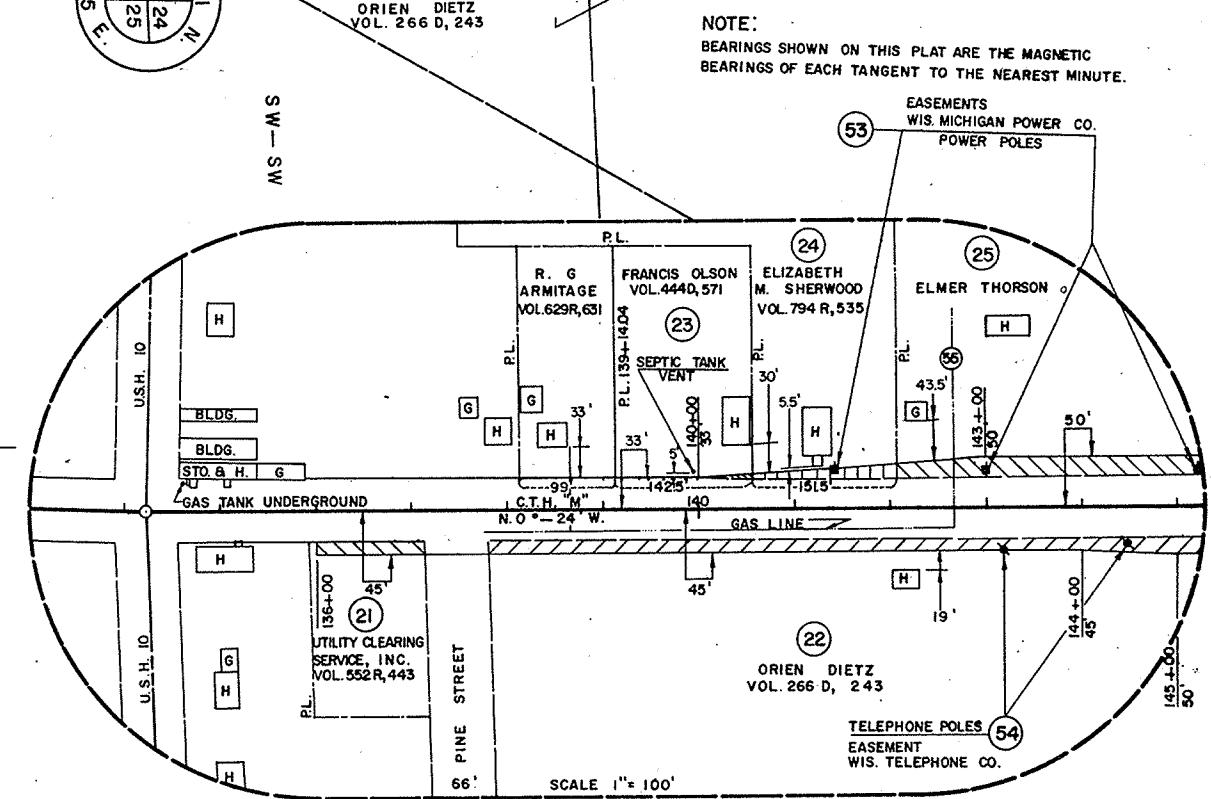
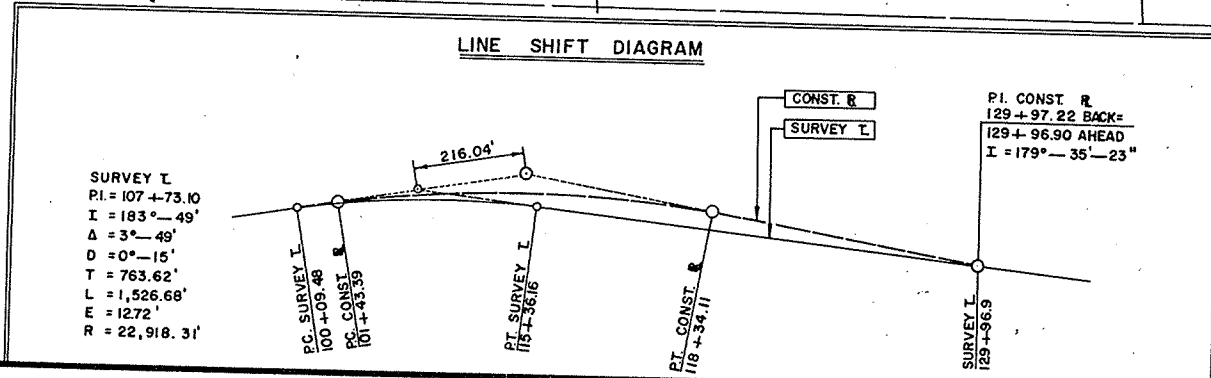
REVISION DATE	PROJECT I.D. 6019 2 00	SHEET NUMBER 4.2	TOTAL SHEETS
	FEDERAL PROJECT DESIGNATION		
PLAT OF RIGHT OF WAY REQUIRED C.T.H. "M" OUTAGAMIE COUNTY			
SCALE 0 400 Ft.			
DATE 6-23-70			
CONST. PROJECT 6019-2-71, 72, 50325(3) 31-32			



REVISION DATE	PROJECT I.D.	SHEET NUMBER	TOTAL SHEETS
	6019 2 00	4.3	
FEDERAL PROJECT DESIGNATION			
PLAT OF RIGHT OF WAY REQUIRED			
C.T.H."M"			
OUTAGAMIE COUNTY			
SCALE 0 400 Ft.			
DATE 6-23-70			
CONST. PROJECT 6019-2-11, 72 50395(3) 3.2-32			



CONST. R
 PI = 109 + 89.13
 I = 184°-13'-37"
 Δ = 4°-13'-37"
 D = 0°-15'
 T = 845.74'
 L = 1,690.72'
 E = 15.60'
 R = 22,918.31'



BENCH MARKS				
NO	STATION	DESCRIPTION	ELEV.	
10	31+10	SPIKE IN 26" B.E.	83' LT. 774.63	
11	34+68	SPIKE IN 24" HICKORY	63' LT. 774.80	

STA. 25+00 (TOWN ROAD LT.)
DESIGN TYPE "C" INTERSECTION REQ'D.
(SEE STANDARD DETAIL DRAWING)

CURVE NOTES
 P.I. = 37+25.50
 L = 133°-31'
 Δ = 46°-29'
 D = 5°-30'
 T = 447.39'
 L = 845.15'
 R = 1,041.74'
 S.E. = 0.074 FT./FT.
 R.O. = 175'

PROJECT NO.	6019-2-71,72	SHEET NUMBER	4	TOTAL SHEETS	32
FEDERAL PROJECT DESIGNATION	S 0395(3)				

(PROPOSED)
CONSTRUCTION LIMITS
STA. 19+00

BEGINNING OF PROJECT S0395(3) / 6019-2-71,72
STA. 25+00

NET LENGTH OF CENTERLINE		
STATION TO STATION	LIN. FT.	
25+00	40+00	1,500

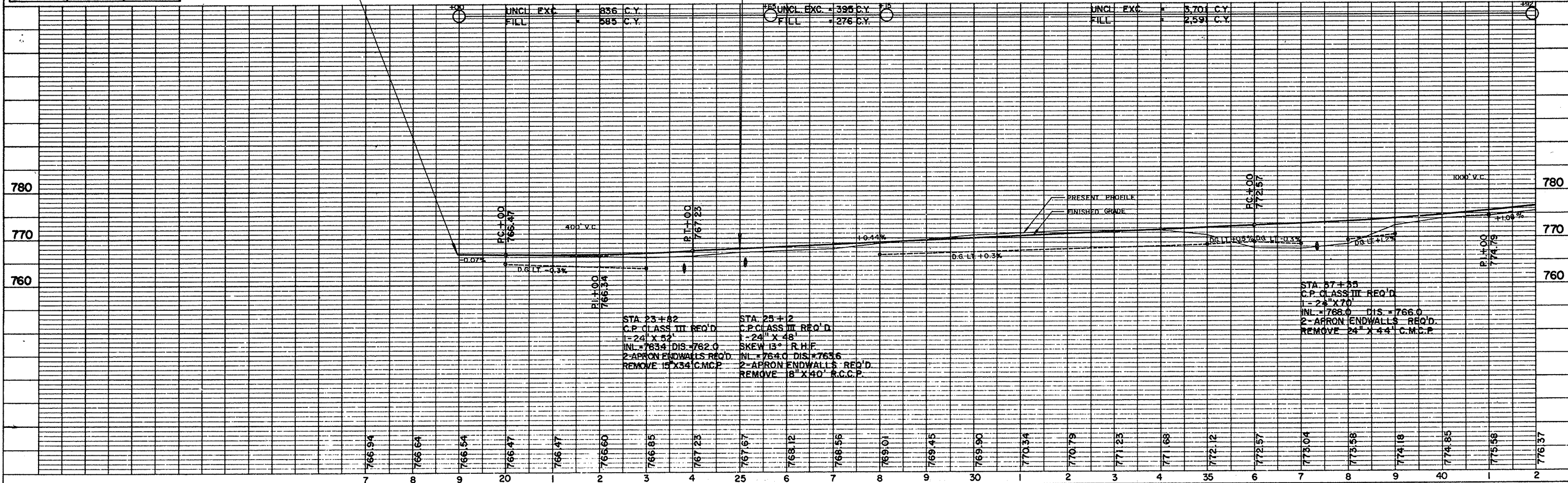
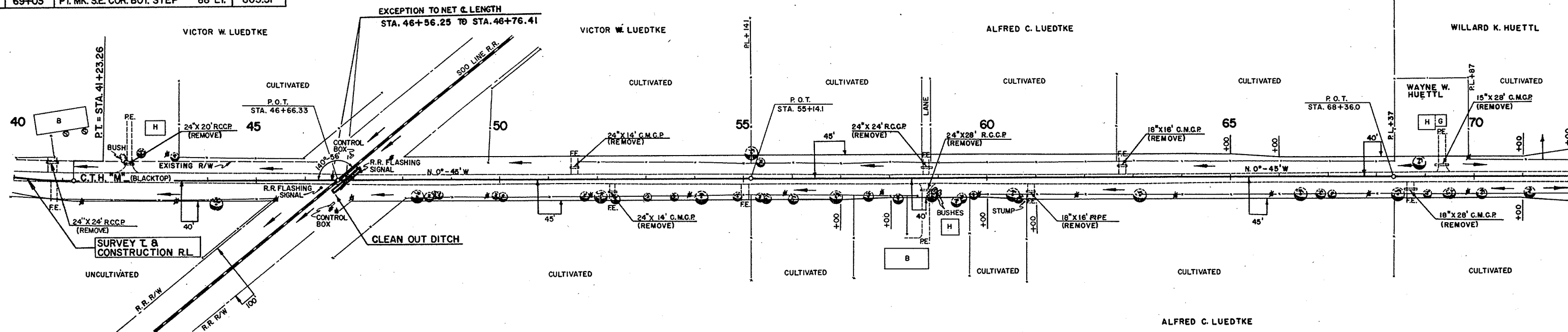


PLATE 1-PLAN PROFILE C.P.R. & R.E. STANDARD
100% R.A.D. - MADE AND PRINTED IN U.S.A.

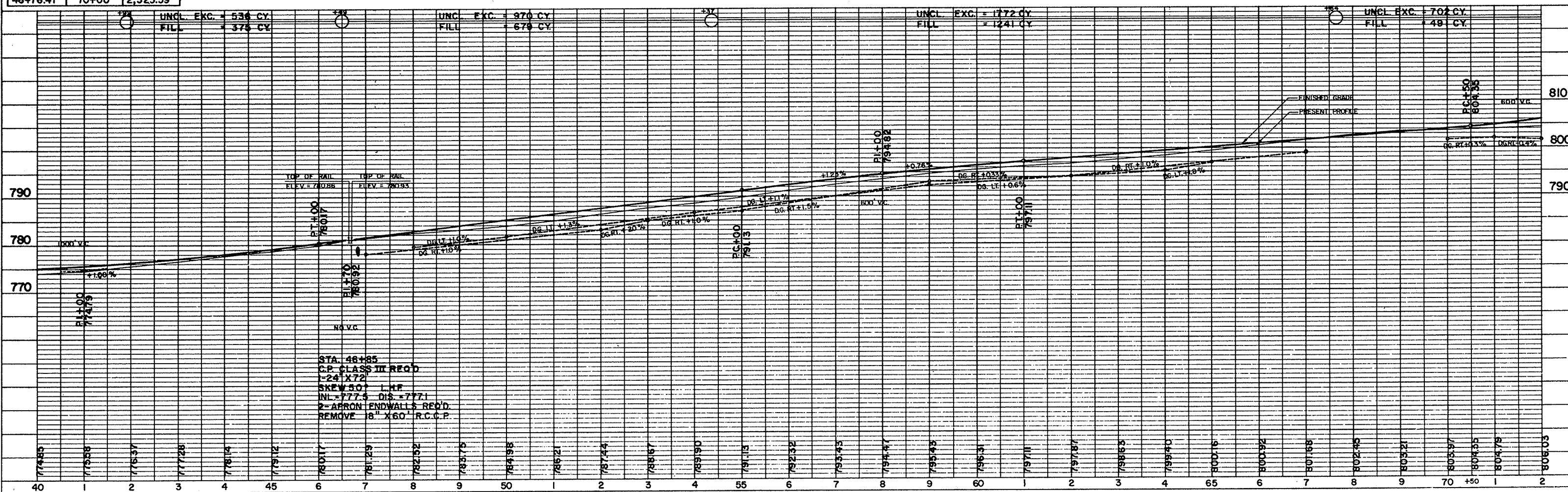
BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
12	46+65	PAINT MARK ON W. CORNER CONCRETE SLAB UNDER R.R. SIGNAL CONTROL BOX 39 RT.	780.91
13	55+15	SPIKE IN 20" HICKORY 45' LT.	791.04
14	60+86	SPIKE IN 28" HICKORY 82' RT.	795.38
15	69+03	PT. MK. S.E. COR. BOT. STEP 88' LT.	803.31

PROJECT ID 6019-2-71,72	SHEET NUMBER 5	TOTAL SHEETS 32
FEDERAL PROJECT DESIGNATION S 0395 (3)		



NET LENGTH OF CENTERLINE		
STATION TO STATION	LIN. FT.	
40+00	46+56.25	656.25
46+76.41	70+00	2,323.59

STA. 55+14.10
LANDMARK REFERENCE MONUMENTS REQUIRED

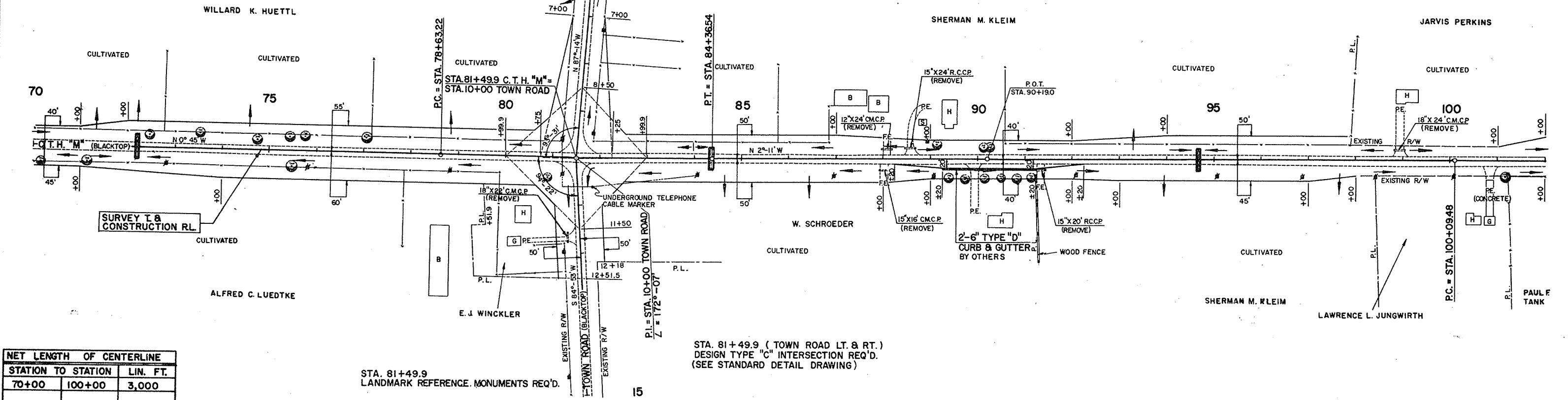


BENCH MARKS				
NO.	STATION	DESCRIPTION		ELEV.
16	75+55	SPIKE IN 20" HICKORY	27' RT.	808.63
17	80+55	SPIKE IN 16" HICKORY	80' RT.	841.13
18	90+50	PT. MK. SW. COR. BOT. STEP	100' RT.	847.19
19	100+58	PT. MK. SW. COR. CONC. PORCH SLAB 110' RT.		835.09

CURVE NOTES

5	P.I.	=	81+49.9
	L	=	178°-34'
	Δ	=	1°-26'
	D	=	0°-15'
	T	=	286.68'
	L	=	573.32'
	R	=	22,918.31'

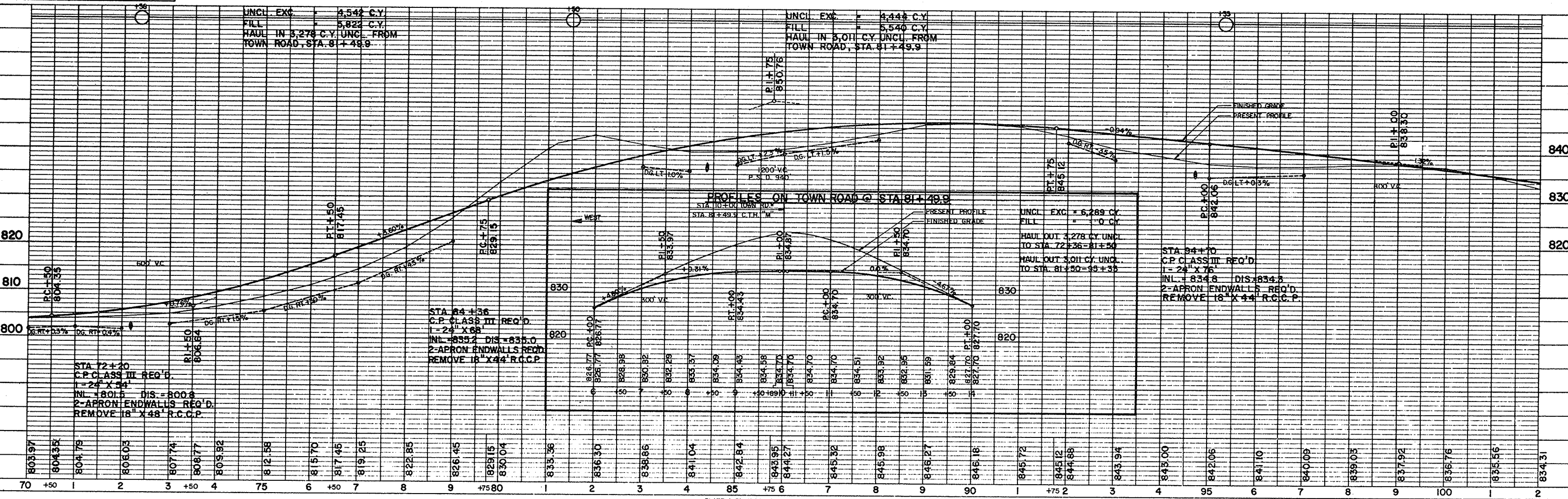
PROJECT I.D.	SHEET NUMBER	TOTAL SHEETS
6019-2-71,72	6	32
FEDERAL PROJECT DESIGNATION		
S 0395 (3)		



NET LENGTH OF CENTERLINE		
STATION TO STATION	LIN. FT.	
70+00	100+00	3,000

STA. 81+49.9
LANDMARK REFERENCE MONUMENTS REQ'D.

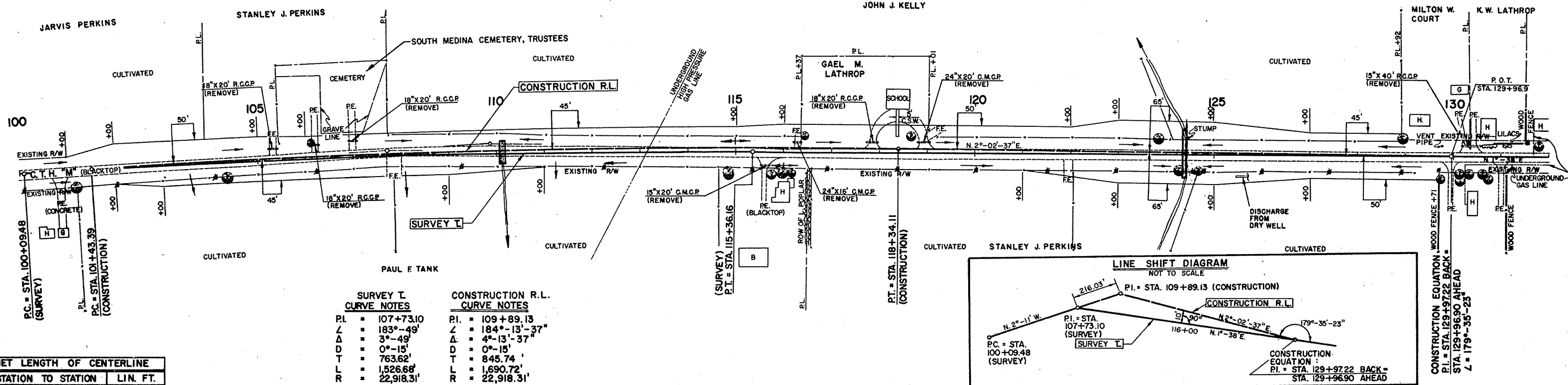
STA. 81+49.9 (TOWN ROAD LT. & RT.)
DESIGN TYPE "C" INTERSECTION REQ'D.
(SEE STANDARD DETAIL DRAWING)



BENCH MARKS		
NO.	STATION	DESCRIPTION
19	100+58	PT. MK. SW. COR. CONC. PORCH SLAB 110' RT
20	106+25	SPIKE IN 32" ELM 73' LT.
21	117+85	SPIKE IN 30" POPLAR 145' LT.
		ELEV.
		835.09
		831.86
		829.93

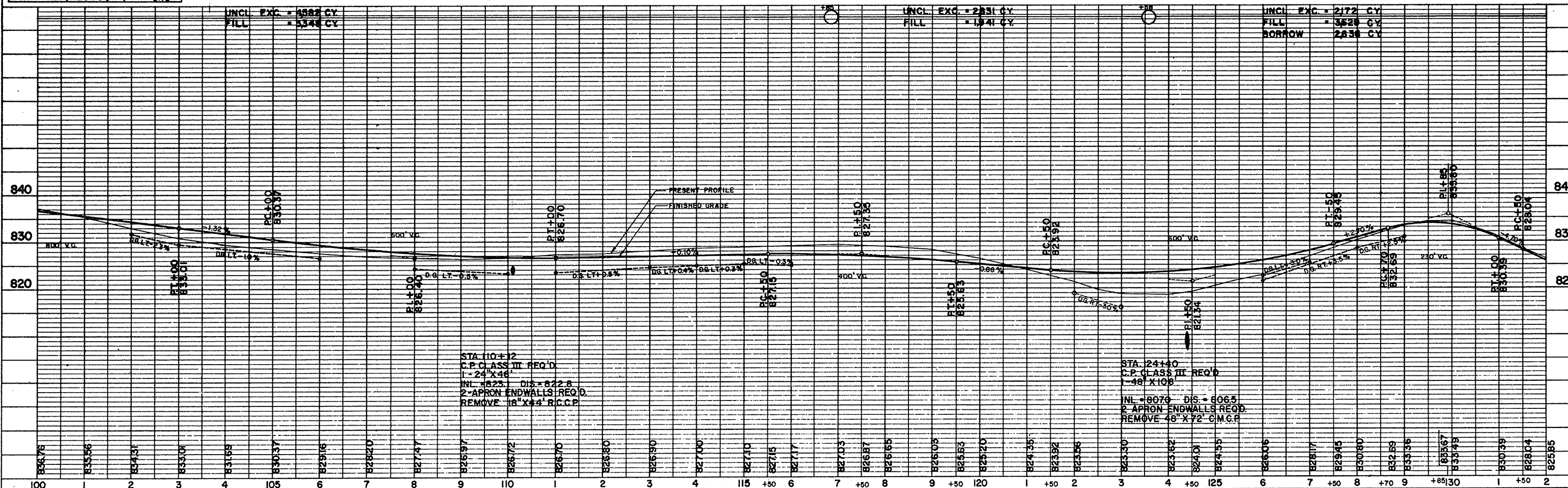
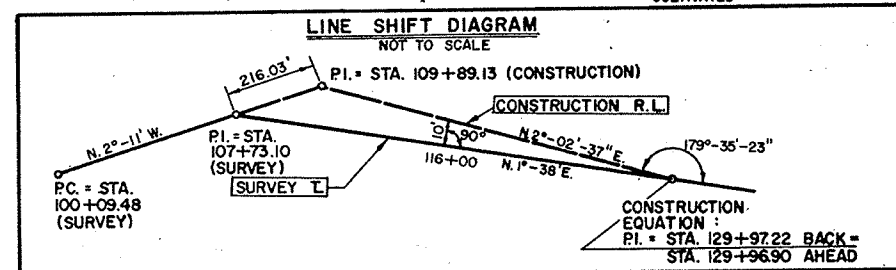
STA. 107+73.10
LANDMARK REFERENCE MONUMENTS REQ'D.

PROJECT NO.	6019-2-71,72	SHEET NUMBER	7	TOTAL SHEETS	32
FEDERAL PROJECT DESIGNATION	S 0395 (3)				



NET LENGTH OF CENTERLINE		
STATION TO STATION	LIN. FT.	
100+00	129+9722	2,997.22
129+9690	130+00	3.10

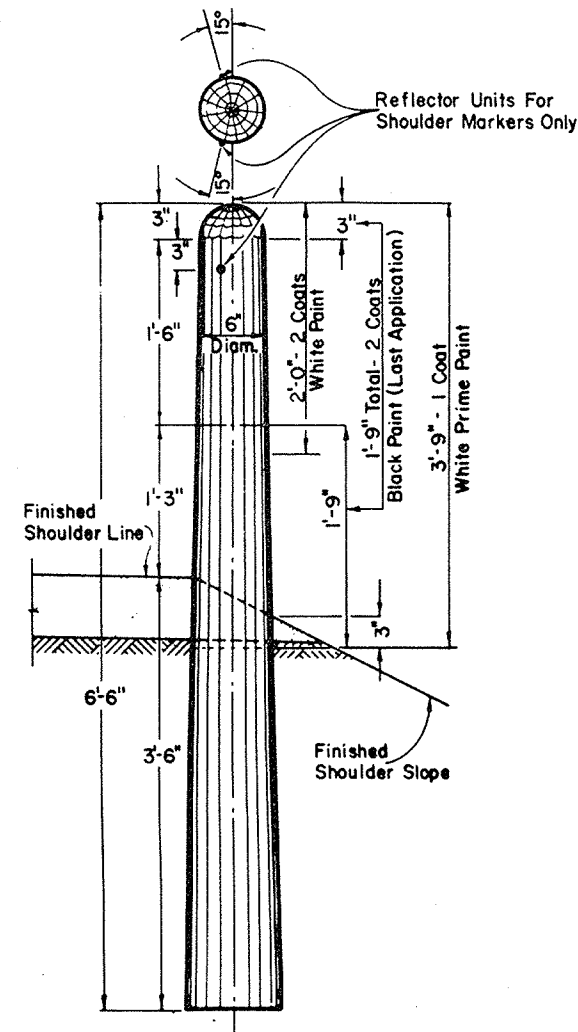
SURVEY L. CURVE NOTES		CONSTRUCTION R.L. CURVE NOTES	
PI.	107+73.10	PI.	109+89.13
L	183°-49'	L	184°-13'-37"
D	3°-49'	D	4°-13'-37"
T	0°-15'	T	0°-15'
L	763.62'	L	845.74'
R	1,526.66'	R	1,690.72'
	22,918.31'		22,918.31'



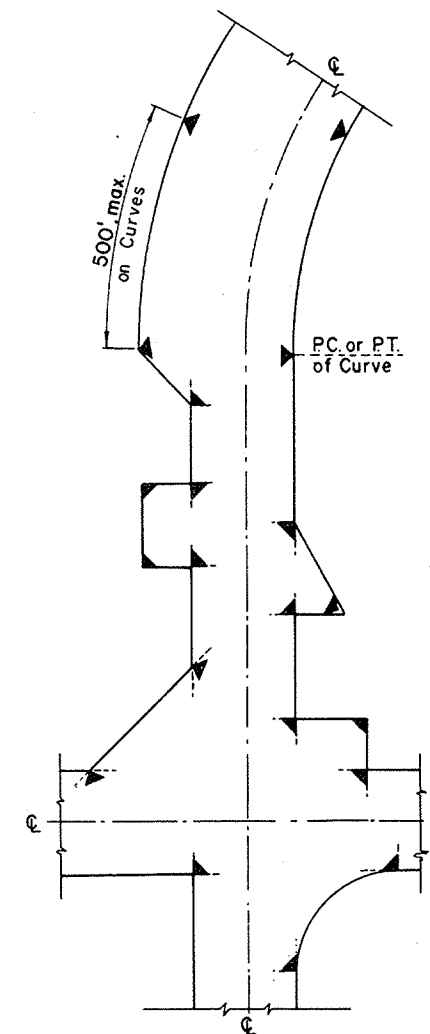
No. 207	ST. OF WAY CHANGED
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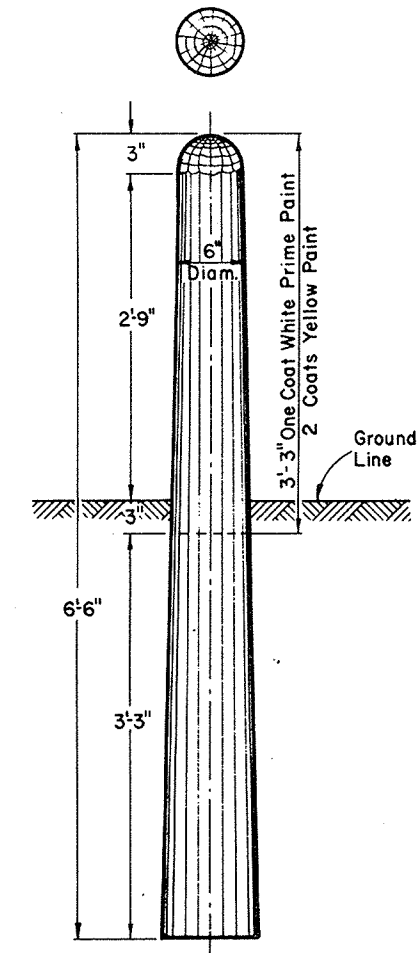
EQUATION:
STA 129+97.22 BACK



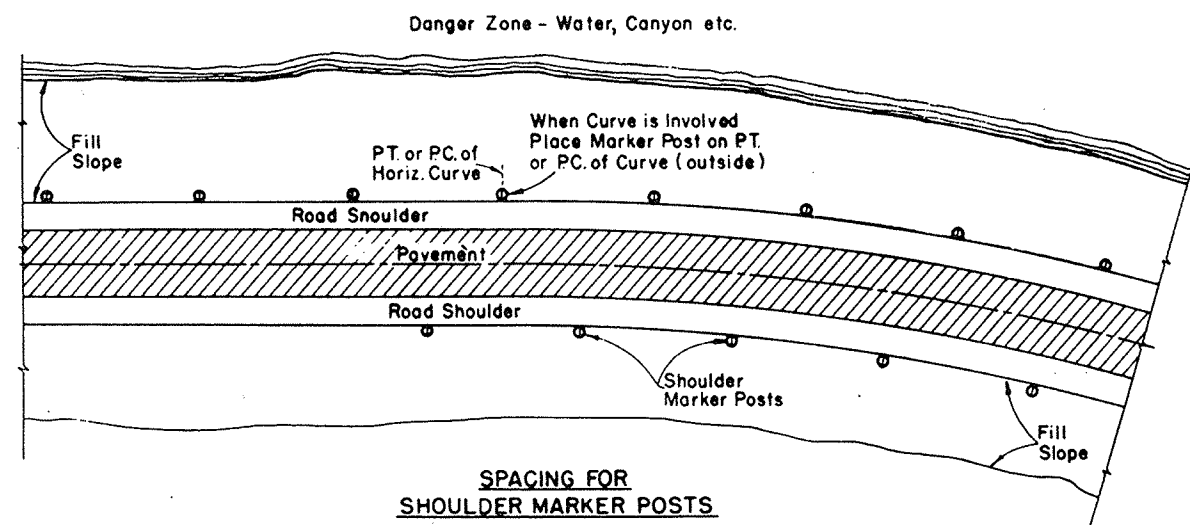
**MARKER POST FOR
ROAD SHOULDERS**



**LOCATION DIAGRAM
SHOWING TYPICAL LOCATIONS OF
MARKER POSTS FOR RIGHT OF WAY**



**MARKER
POST
FOR
RIGHT OF WAY**



**SPACING FOR
SHOULDER MARKER POSTS**
50' C:C for 100' to 500' Danger Zones
100' C:C for Over 500' Danger Zones

**LOCATION DIAGRAM
SHOWING RELATIVE LOCATIONS OF SHOULDER MARKER POSTS**

MARKER POSTS FOR ROAD SHOULDERS

MARKER POST FOR RIGHT OF WAY

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.

MARKER POSTS FOR RIGHT OF WAY

Right of Way Marker Posts shall be erected in advance of grading operations. Posts shall be placed at the outer limits of the highway Right of Way, but entirely within the Right of Way, and shall be so placed that the outer edge of the posts shall be tangent to the Right of Way line or lines extended. The exact location of all Right of Way posts will be staked in the field by the Engineer.

REFLECTOR UNITS

Reflector Units shall be installed in road shoulder marker posts only. Reflector Units shall have plastic crystal lens 7/8" in diameter. Unit assembly shall be a minimum of 7/8" in length. Reflector Units shall be furnished with flared expanding metal clips for wood mounting. Units shall be mounted in tightest fit possible and securely stayed in posts.

MARKER POSTS & MARKER POSTS FOR RIGHT OF WAY

State Highway Commission of Wisconsin

RECOMMENDED FOR APPROVAL

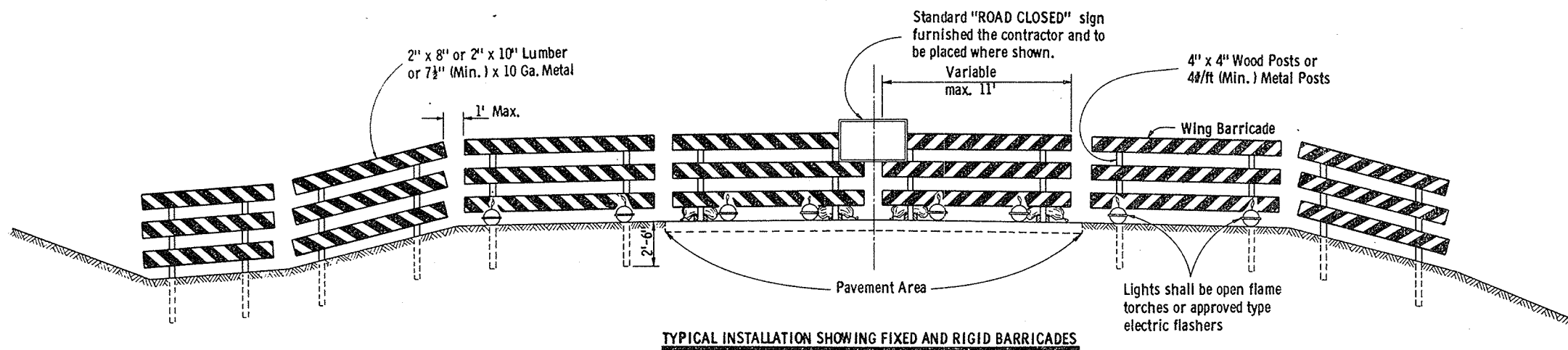
DATE 7/6/66

APPROVED

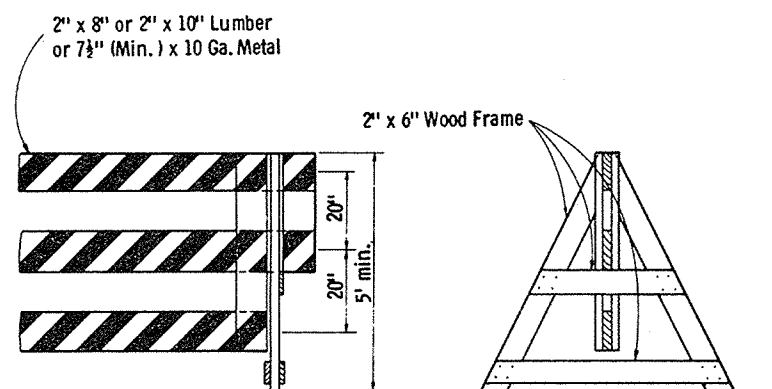
DATE 7/9/66

E. J. Byrkit
CHIEF DESIGN ENGINEER

H. J. Lammert
STATE HIGHWAY ENGINEER

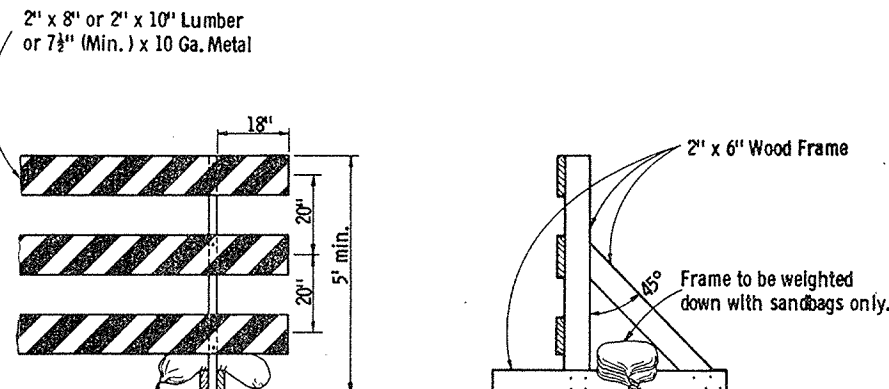


TYPICAL INSTALLATION SHOWING FIXED AND RIGID BARRICADES

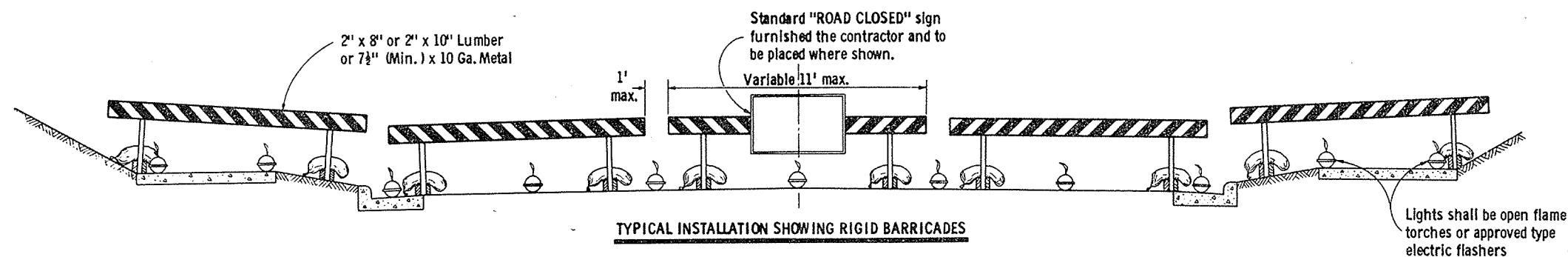


ALTERNATE TYPE INSTALLATION (DEMOUNTABLE)

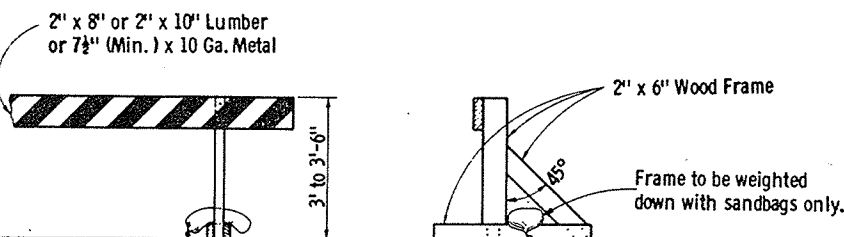
CLASS I BARRICADES



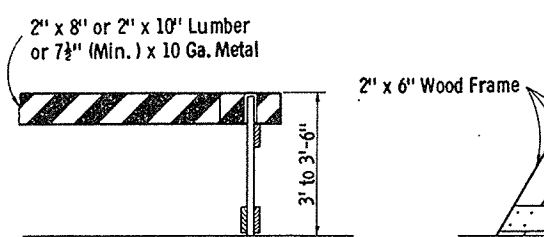
ALTERNATE TYPE INSTALLATION (RIGID)



TYPICAL INSTALLATION SHOWING RIGID BARRICADES

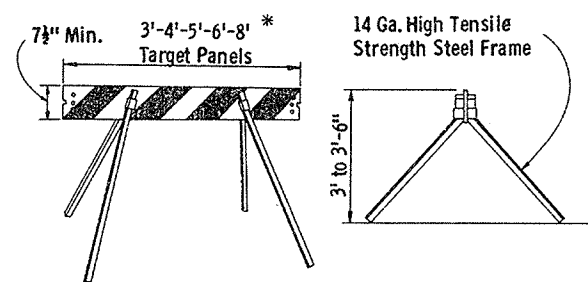


ALTERNATE TYPE INSTALLATION (RIGID)



ALTERNATE TYPE INSTALLATION (DEMOUNTABLE)

CLASS II BARRICADES



ALTERNATE TYPE INSTALLATION (DEMOUNTABLE)

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 II BARRICADE:

Class II 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.

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

4" or 6" but consistent for each barricade installation

45°

TYPICAL DIAGONAL STRIPES
Applies to all Classes & Types of Barricades

CONSTRUCTION BARRICADE

State Highway Commission of Wisconsin

RECOMMENDED FOR APPROVAL:

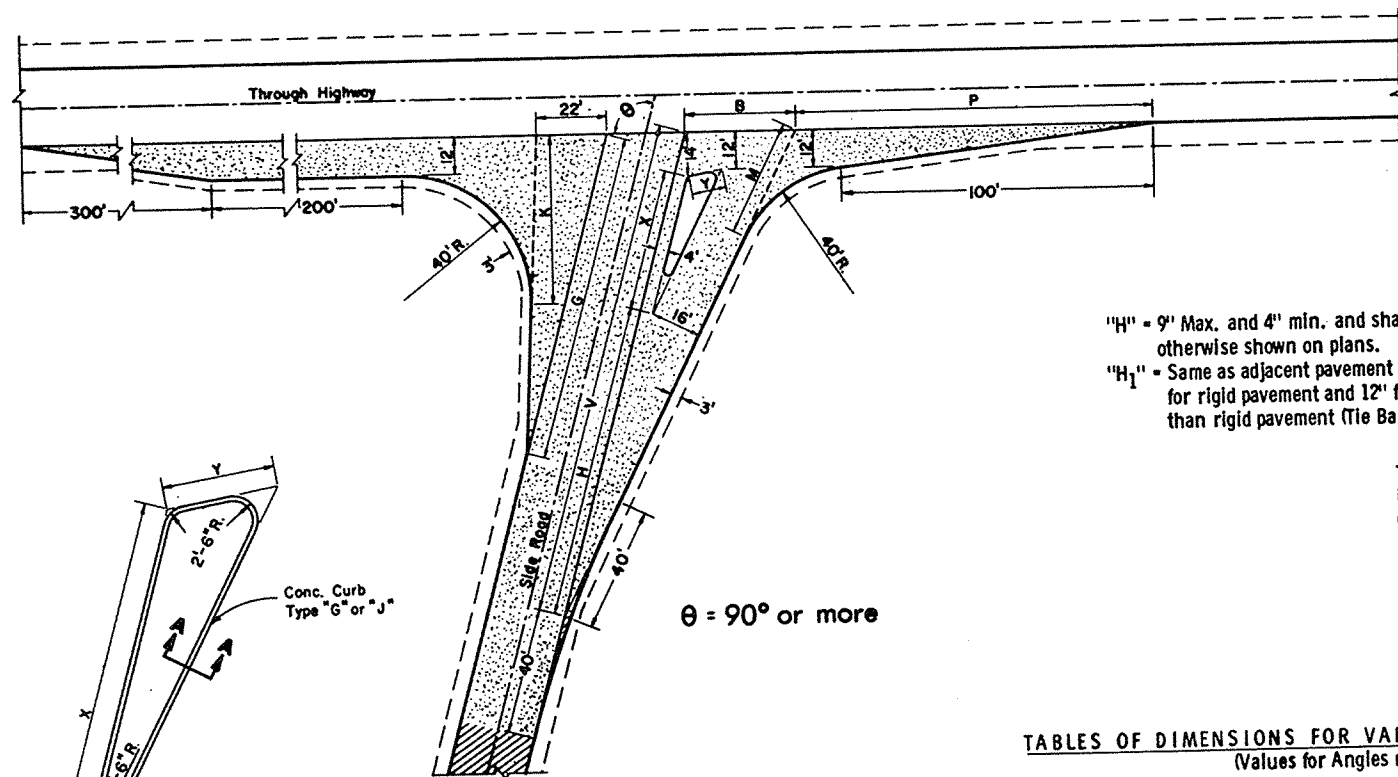
1/1/67
DATE

APPROVED:

1/13/67
DATE

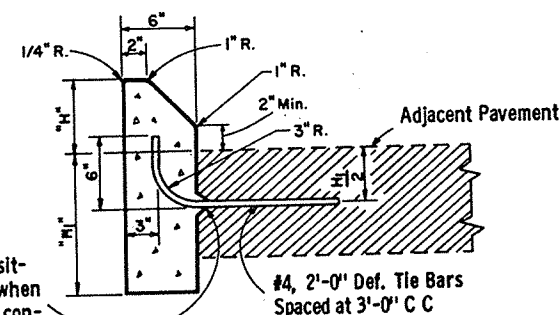
E. J. G. H. J.
CHIEF DESIGN ENGINEER

J. J. L. M. J.
STATE HIGHWAY ENGINEER



"H" = 9' Max. and 4' min. and shall be 6' unless otherwise shown on plans.
 "H₁" = Same as adjacent pavement thickness for rigid pavement and 12' for other than rigid pavement (Tie Bars Omitted).

Tie Bar recess positioned in reverse when Concrete Curb is constructed first



SECTION A-A

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

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

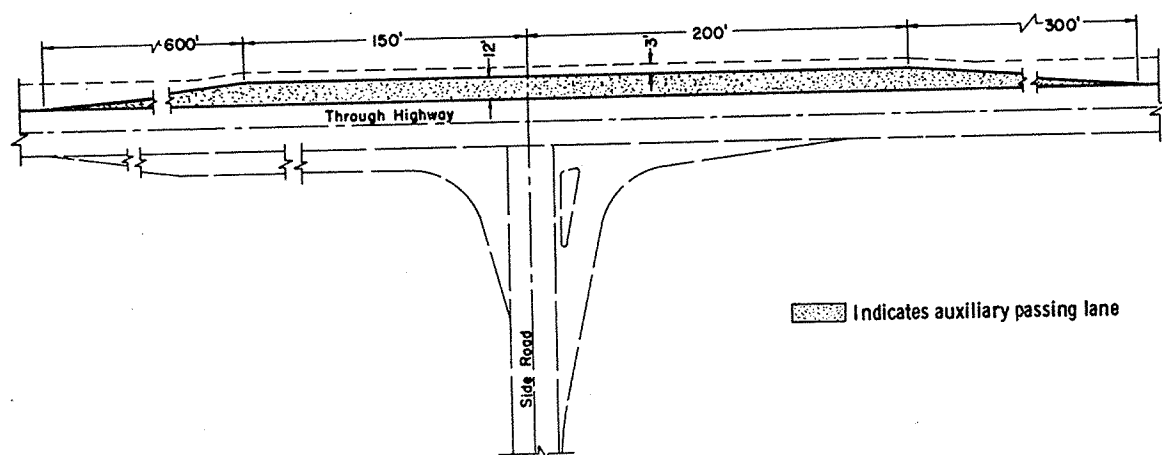
θ	G	K	B	V	H	X	Y	P	M
90	90	43.8	33.9	156.0	94	48.0	11.0	125.0	44.2
95	94	46.7	34.0	156.7	96	47.0	11.0	121.3	41.9
100	98	50.0	34.4	157.4	98	45.9	11.0	117.7	39.7
105	102	53.8	35.2	158.3	100	44.9	11.2	114.2	37.8
110	106	58.2	36.4	159.2	102	43.7	11.4	110.6	36.2
115	110	63.4	38.4	161.8	104	42.6	11.7	107.1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

*Maximum angle of intersection

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

*Desirable Minimum angle of intersection

TYPE "A" SIDE ROAD INTERSECTION DETAILS

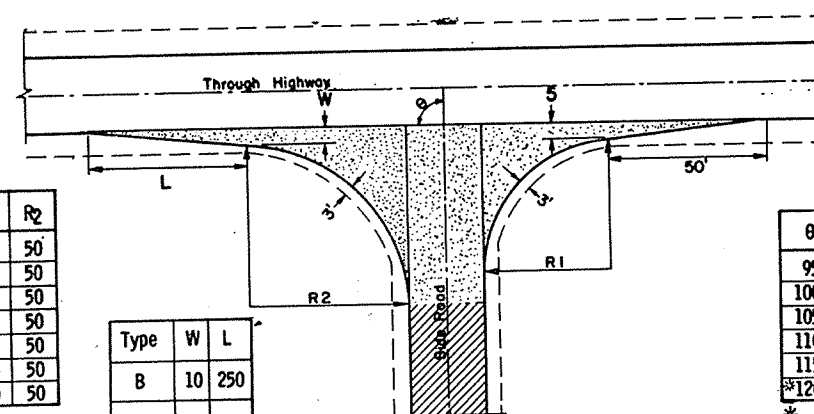


PASSING LANE DETAIL

Indicates auxiliary passing lane

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

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

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

θ = less than 90°

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.

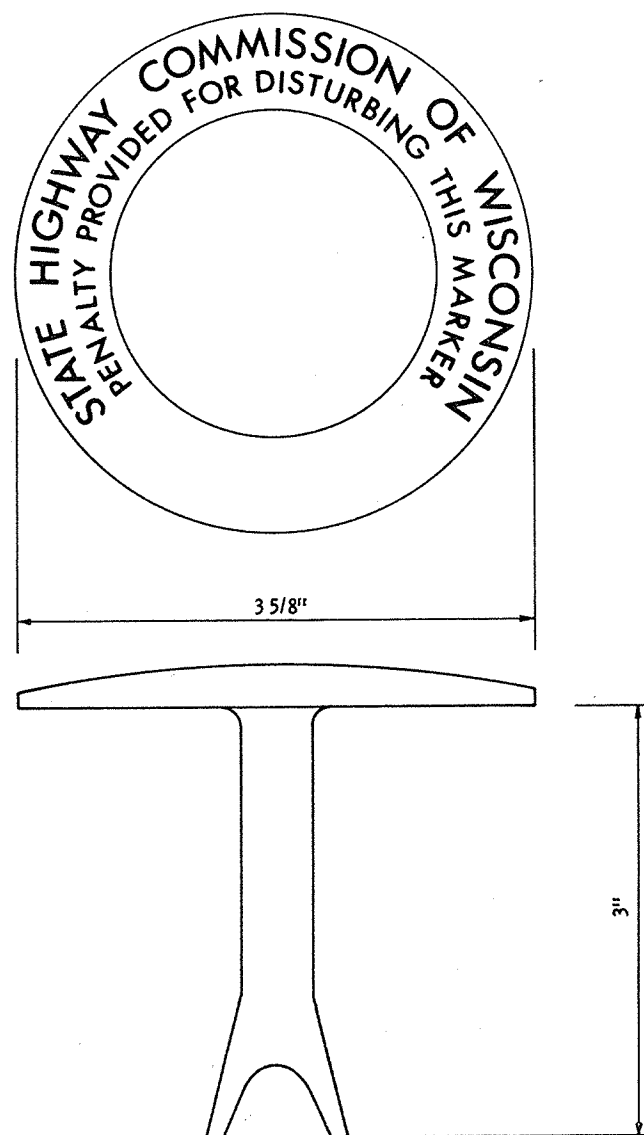
If the side road is presently paved, new pavement shall be placed to the limits of design as shown and beyond, if necessary, to meet existing pavement.

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

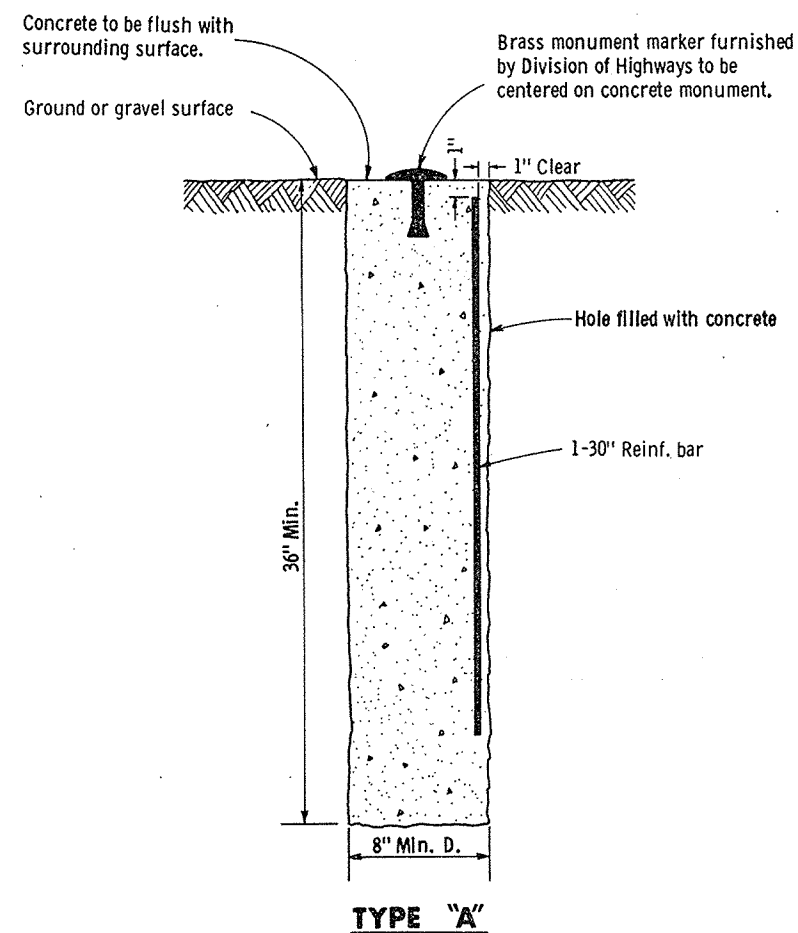
LAYOUT DETAILS FOR AT-GRADE SIDE ROAD INTERSECTIONS

State Highway Commission of Wisconsin

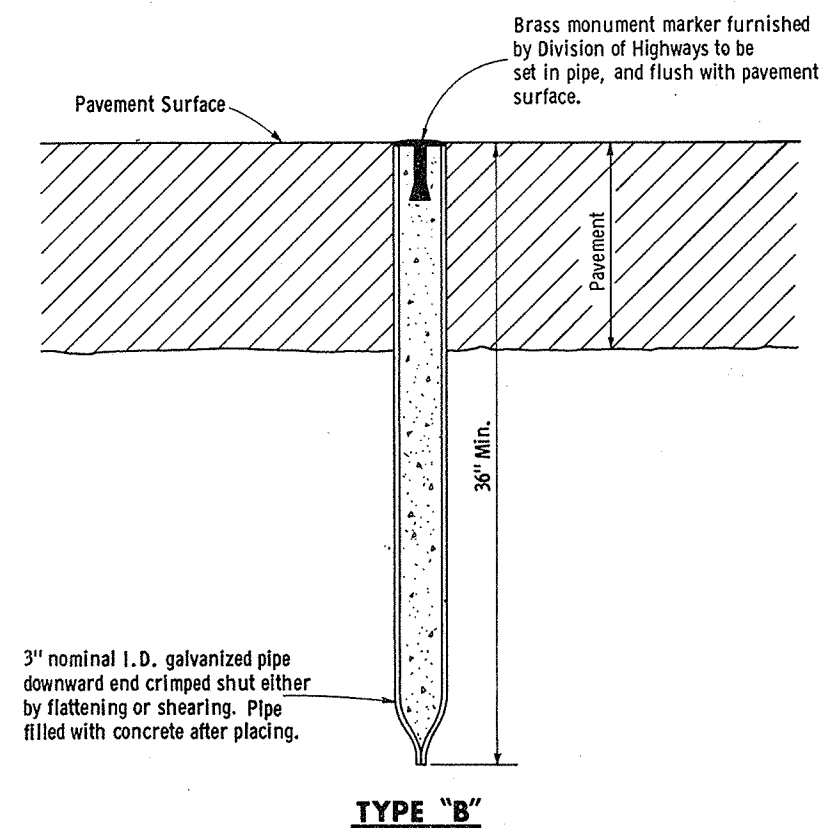
RECOMMENDED FOR APPROVAL: *E.J. Rydzek*
 DATE: 8/9/67
 APPROVED: *A.J. Rydzek*
 DATE: 8/9/67



**BRASS
MONUMENT MARKER**
To be furnished to contractor by
Division of Highways



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



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:

1/25/68
DATE

E. J. Rybit
CHIEF DESIGN ENGINEER

APPROVED:

2/8/68
DATE

H. J. Turner
STATE HIGHWAY ENGINEER

SURVEY
L

26+00
770

766.91

25+00
770

766.46

24+00
770

766.02

23+00
770

765.64

765.6

22+00
770

765.39

763.9

21+00
770

765.26

764.2

20+00
770

765.26

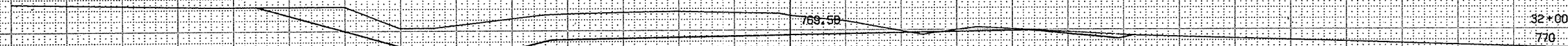
764.5

1" V
1" H
3 6019 20014

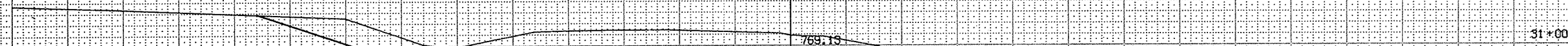
STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
		UNC	
19		89	19
20		181	43
21		172	65
22		139	100
23		91	146
24		87	130
25		119	126
26			
TOTAL		878	629

12/30

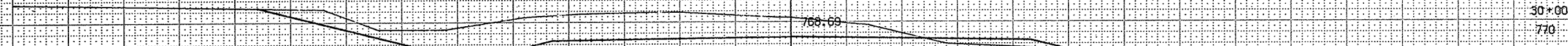
SURVEY



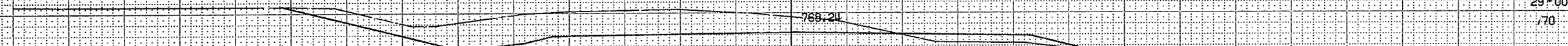
7676



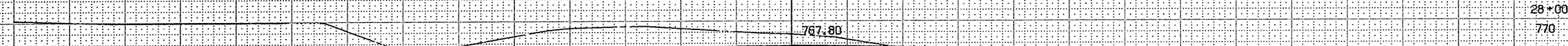
767.3



767.0



766.7



766.4



767.35

SBA REGION DIVISION		PROJECT		SHEET NUMBER	TOTAL SHEETS
4 WIS		S.0395 (3)		12	32
STATION	DISTANCE	YARDAGE			
		EXCAVATION			
		UNC			FILL
26		133			143
27		178			83
28		278			41
29		363			26
30		448			9
31		472			
32					
TOTAL		1872			302

1	1	\$ VER
1	1	\$ HOR
3		6019 20

SURVEY

772.97

770.7

39+00

770

772.38

769.5

38+00

770

771.83

768.7

37+00

770

771.35

769.0

36+00

770

770.91

768.5

35+00

770

770.47

768.2

34+00

775

770.02

767.9

33+00

775

BPA REGION	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS	S-0385.13	13	32
STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
32		387	43
33		335	115
34		322	187
35		263	291
36		200	407
37		206	409
38		185	333
39			
TOTAL		1,898	1,785

1" = 5' VERT
1" = 5' HOR
3 6019 20014

1/30

SURVEY

777.91

45+00

780

DPA REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 HIS	S-0395 (3)	14	32

STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
		UNC	
39			
40	109		280
41	93		256
42	89		217
43	93		130
44	117		81
45	113		72

TOTAL 614 1036

776.93

44+00

780

776.01

43+00

780

775.15

42+00

780

774.37

41+00

775

773.63

40+00

775

1" = 5' VERT
1" = 5' HOR
3-6019-20014

SURVEY

786.23

52+00

790

784.1

783.0

785.00

51+00

785

782.8

782.0

783.77

50+00

785

781.5

781.0

782.54

49+00

785

780.5

780.0

781.31

48+00

785

779.5

779.0

780.08

47+00

785

778.0

778.96

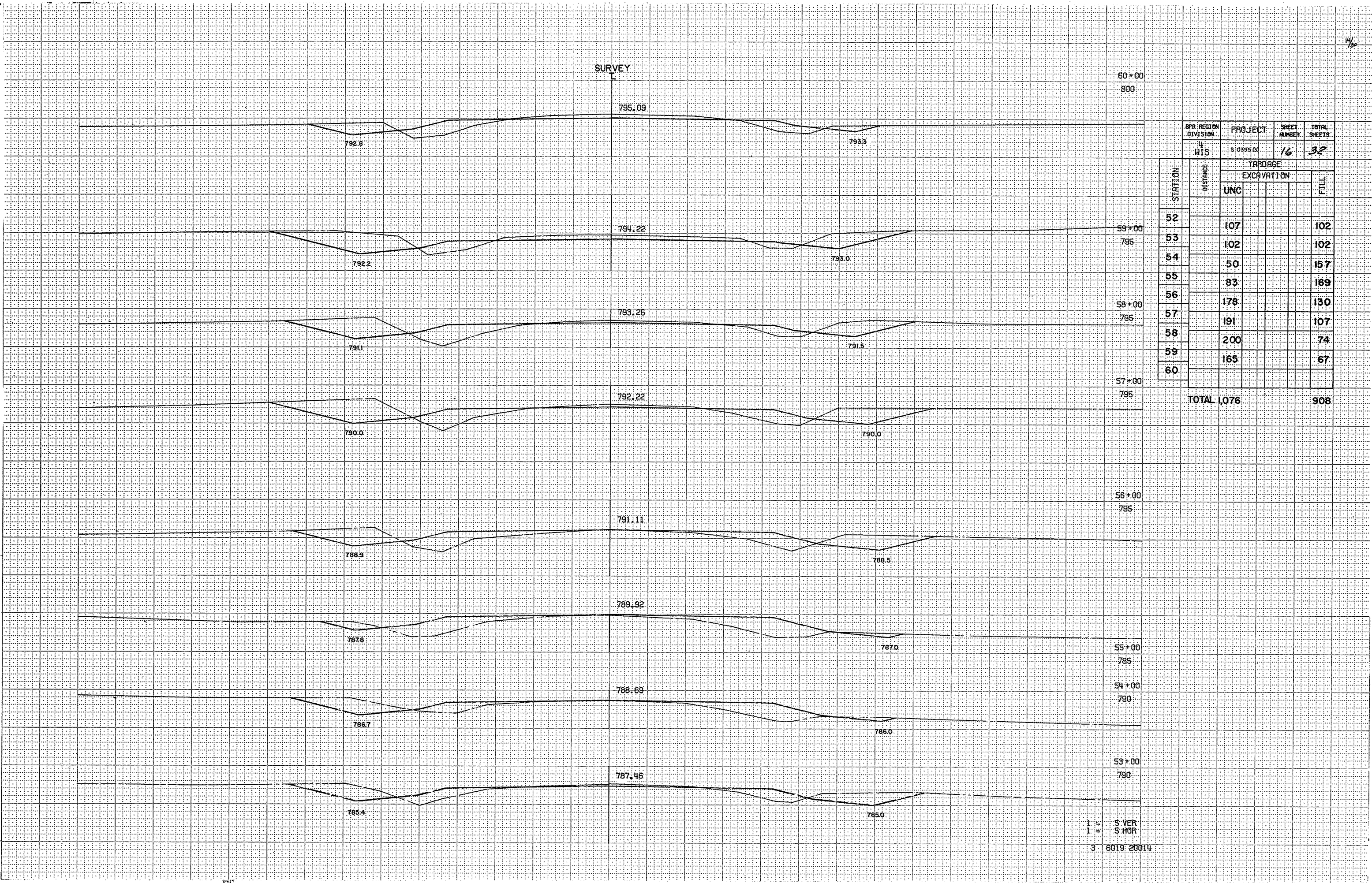
46+00

780

1 = S VER
1 = S HOR

3 6019 20014

BPA REGION		PROJECT	SHEET	TOTAL
DIVISION			NUMBER	SHEETS
II		S-0395 (D)	15	32
STATION	DISTANCE	YARDAGE		
		EXCAVATION	FILL	
		UNC		
45				
46		119		61
47		176		28
48		206		11
49		137		46
50		94		96
51		111		124
52		106		126
TOTAL		949		492



SURVEY

68+00
805

15%

BPA REGION DIVISION		PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS		S. 0395 D.	17	32
STATION	DISTANCE	YARDAGE		
		EXCAVATION		FILL
		UNC		
60		80		100
61		96		106
62		113		102
63		109		109
64		117		85
65		111		52
66		154		31
67		222		15
68				
TOTAL		1002		600

801.24

800.47

799.0

799.71

798.0

798.95

797.0

797.0

798.19

795.2

796.0

797.42

794.6

795.0

796.65

794.0

794.0

795.90

793.4

793.7

1" = S. VER
1" = S. HOR
3 6019 20014

SURVEY

811.35

75+00

810

805.7

806.71

74+00

805

804.2

806.53

73+00

805

802.7

804.82

72+00

800

801.6

803.58

71+00

805

802.0

802.75

70+00

805

801.7

802.00

69+00

805

1" VERT
1" HOR

3 6019 20014

BPA REGION DIVISION		PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS		S 0395 (3)	18	32
STATION	DISTANCE	YARDAGE		
		EXCAVATION		FILL
		UNC		
68				
69		246		7
70		207		13
71		106		59
72		48		228
73		43		491
74		26		746
75		31		909
TOTAL		707	2,453	

17/20

SURVEY

828.83

80-00	800
-------	-----

830

825.24

79-00

1. 79 7. 60

820.7

821.64

78.00

1.00

816.2

818.04

77*GU

...	...
...	...

811.7

814.50

76.00

...	...
...	...

808.7

[illegible]

1	1	S VER	
1	1	S HOR	
3		CO19: 20014	

SURVEY

841.63

85+00

840

837.1

BPA REGION	PROJECT	SHEET	TOTAL
DIVISION		NUMBER	SHEETS
4	S. 0395 (3)	20	32
WIS			

839.83

84+00

835

835.5

STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
		UNC	
80			
81		2,111	
		616	
+20		2,387	
82		1,652	
83		296	174
84		17	557
85			
TOTAL		7,079	731

837.65

83+00

840

835.5

835.08

82+00

840

832.76

81+20

835

832.14

81+00

835

1 = S VER
1 = S HOR
3 6019 20014

19/2

SURVEY
843.67

842.0

842.0

92+00

840

BPA REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 HIS	S 0395.03	21	32

844.50

91+00

845

STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
		UNC	
85		20	794
86		28	769
87		63	539
88		117	187
89		241	9
90		302	
91		174	54
92			

TOTAL 945 2349

89+00

850

845.05

844.77

842.4

88+00

840

840.5

844.10

840.9

87+00

840

843.05

86+00

840

839.4

1" =
1" =
S VERT
S HOR

3 5019 20014

SURVEY
T

DPA REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS	S 0395 IS	22	52

STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
		UNC	
92		59	381
93		15	819
94		7	970
95		19	880
96		24	670
97		13	337
98			

TOTAL 137 4057

837.81

98+00
835

838.87

97+00
835

835.5

839.89

96+00
835

835.2

840.85

95+00
840

834.9

841.79

94+00
840

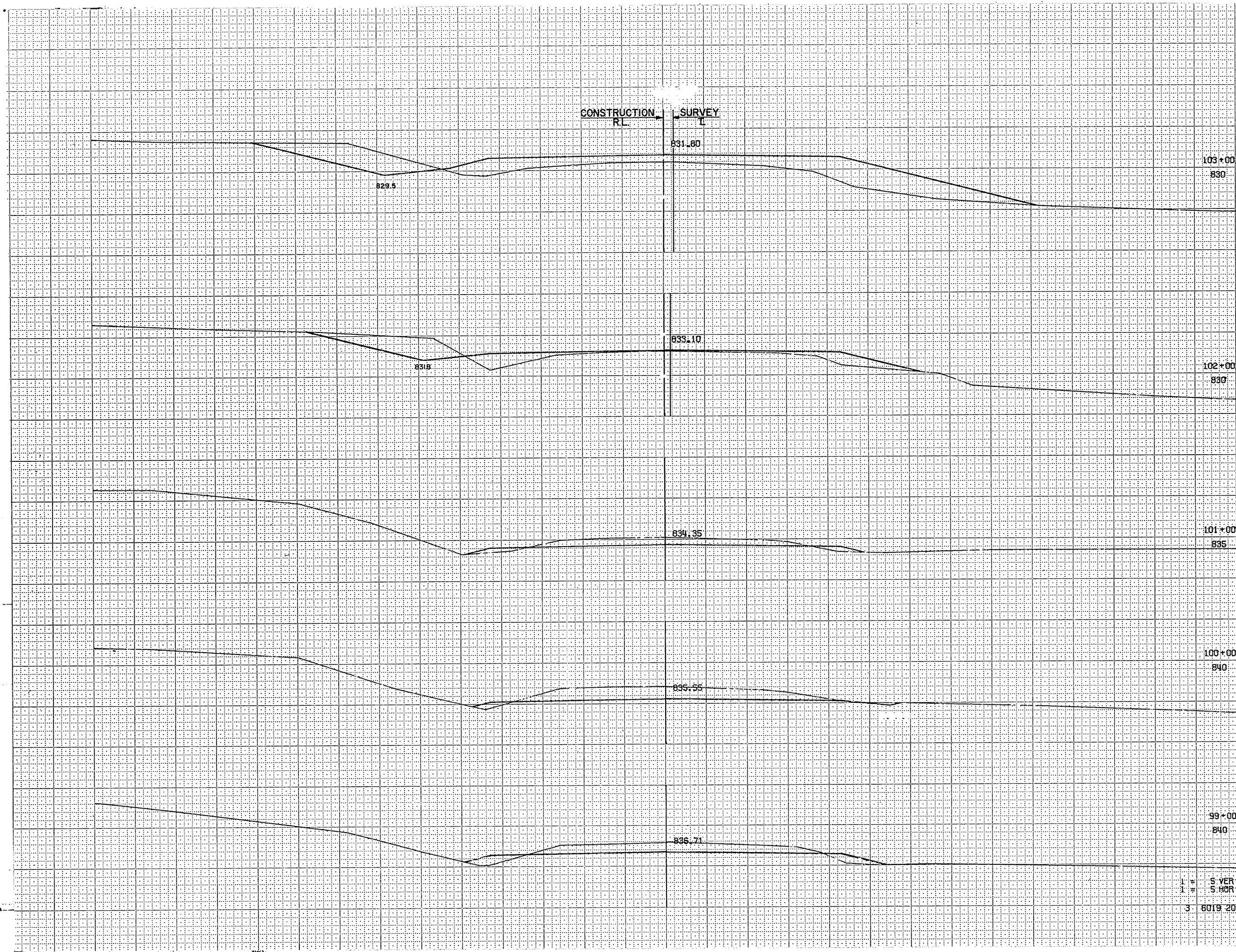
842.73

93+00
840

837.0

838.5

1" =
1" =
3 0019 20014
S VER
S HOR



BPA REGION DIVISION		PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS		S. 0395.13)	23	32
STATION	DISTANCE	YARDAGE		
		EXCAVATION		
		UNC		FILL
98		63		83
99		152		20
100		135		13
101		100		63
102		124		252
103				

CONSTRUCTION
RL

SURVEY
L

825.75

823.7

109+00

830

108+00

830

826.25

824.2

107+00

825

826.98

827.95

826.5

106+00

825

829.16

827.5

105+00

825

830.48

828.5

104+00

830

1" = 5' VERT
1" = 5' HOR
3 8019 20014

BPA REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS	S-0305 (S)	24	32

STATION	EXCAVATION UNC	YARDAGE	
		EXCAVATION	FILL
103	122		380
104	93		309
105	67		196
106	30		113
107	46		87
108	128		70
109			
TOTAL 486			1155

CONSTRUCTION
RL

SURVEY
L

116+00

830

824.9

825.91

115+00

830

825.2

825.82

114+00

830

824.3

825.73

113+00

830

824.5

825.64

112+00

830

824.0

825.55

111+00

830

823.5

825.45

110+00

830

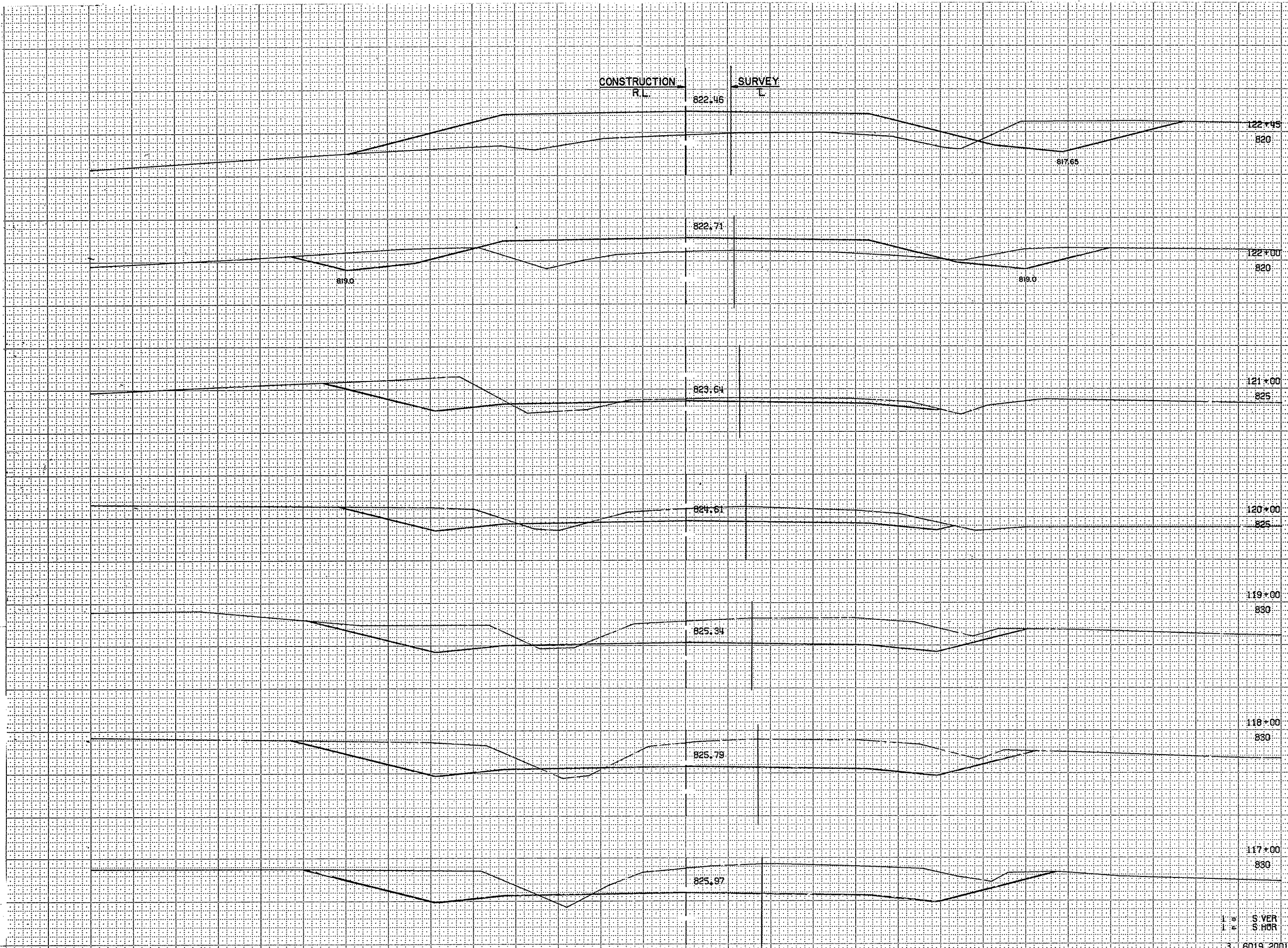
823.2

825.48

1
K
E
S
VER
S
HOR

3 6019 20014

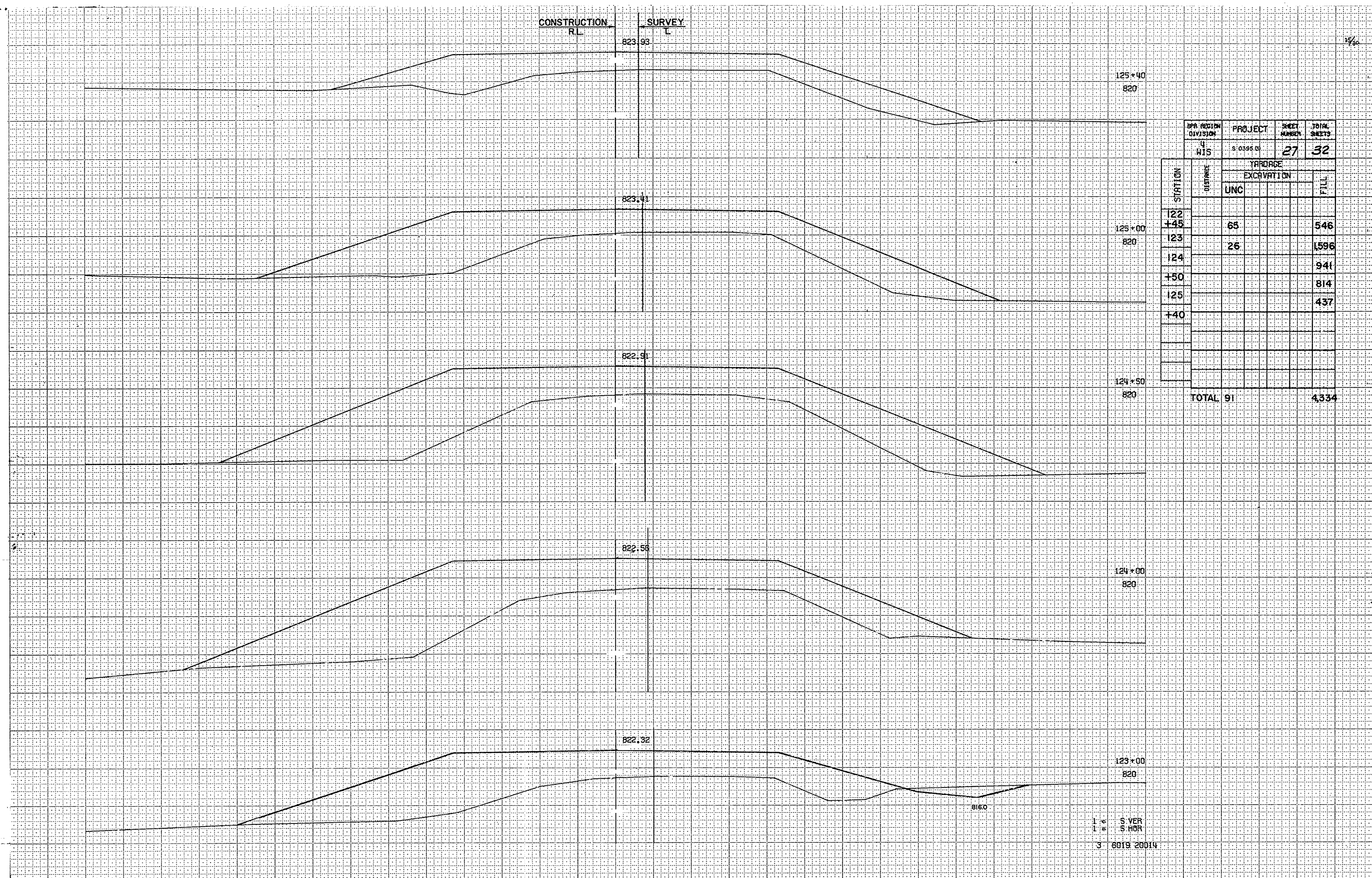
DPA REGION DIVISION		PROJECT		SHEET NUMBER	TOTAL SHEETS
4 WIS		S-0395 D		25	32
STATION	DISTANCE	YARDAGE			
		EXCAVATION			FILL
		UNC			
09		181			50
10		226			31
11		283			17
12		374			19
13		530			17
14		607			9
15		654			9
16					
TOTAL		2,855			152



BPA REGION DIVISION		PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS		S-039501	26	32
STATION	DISTANCE	YARDAGE		
		EXCAVATION		FILL
		UNC		
116		722		15
117		724		20
118		669		15
119		478		11
120		283		26
121		209		181
122		83		222
+45				
TOTAL		3,668		490

1" = 5' VERT
1" = 50' HOR

3-6019-20014



SURVEY
L

DPA REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS	S.0398.00	25	52

STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
		UNC	
125 +40		40	391
126		220	272
127		278	46
128		285	26
129		186	7
+50		178	2
130		135	2
+50			

TOTAL 1,322 746

CONSTRUCTION
RL SURVEY
L

129+00

835

128+00

830

127+00

825

126+00

825

1
1
3

S. VER
S. HOR

6019 20014

SURVEY

133+00
825

821.21

132+95
825

821.34

132+50
825

822.75

132+00
825

824.69

131+50
830

826.83

131+00
830

829.18

130+88
830

829.72

1" = S VERT
1" = S HOR
3 6019 20014

DPA REGION		PROJECT	SHEET	TOTAL
DIVISION			NUMBER	SHEETS
4		S 0395 D	29	32
STATION	DISTANCE	YARDAGE		
		EXCAVATION	FILL	
		UNC		
130				
+50		95		1
130				
+88		32		
131		135		
+50		126		
132		113		1
+50		99		2
+95		11		
133				
TOTAL		611		4

BPA REGION	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS	S 0395 (B)	30	32

STATION	DISTANCE	YARAGE	
		EXCAVATION	FILL
		UNC	
133		113	4
+50		92	4
+90		23	1
134			

TOTAL 228 9

SURVEY

819.10

133+90
820

819.98

133+50
820

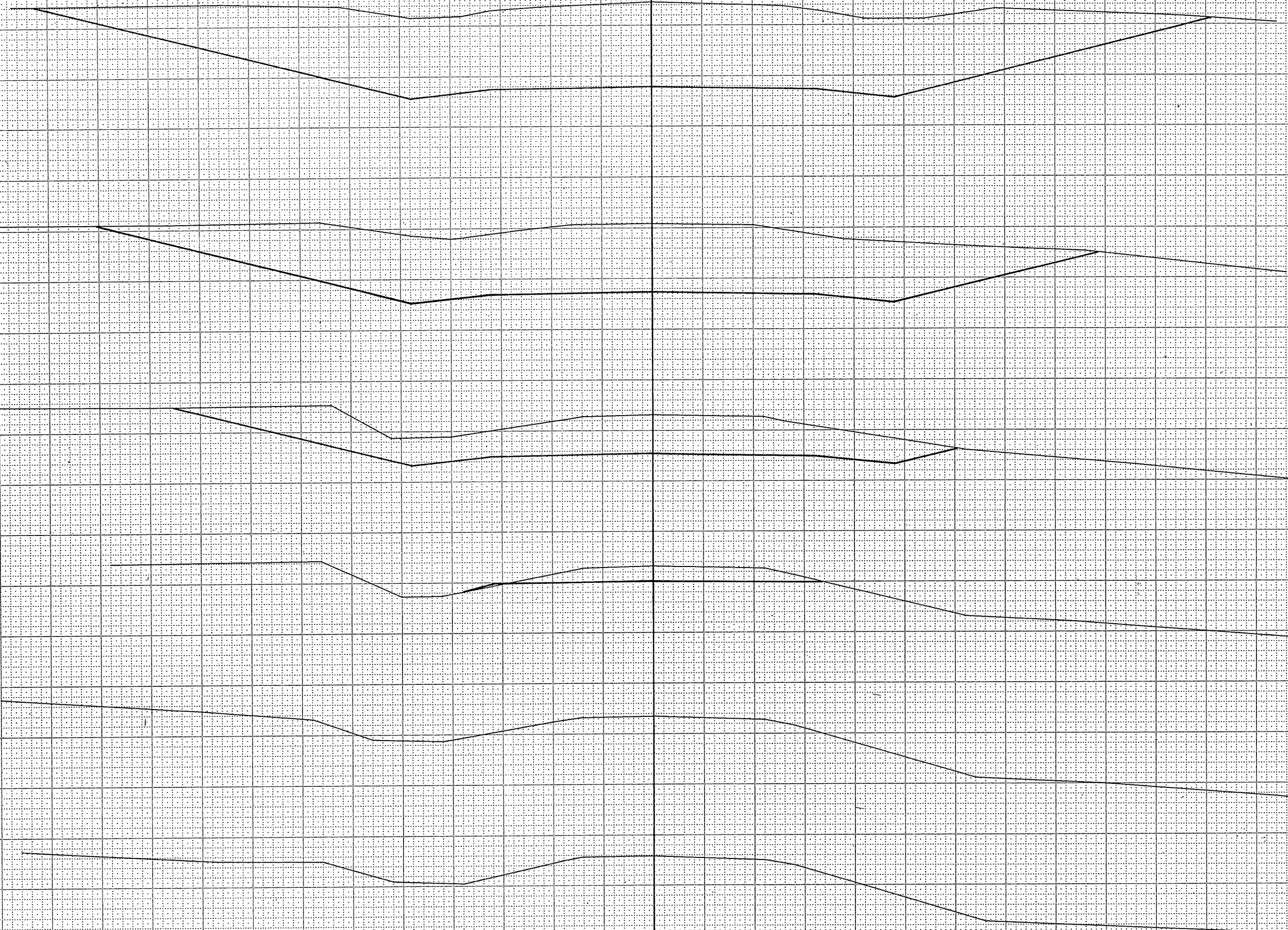
1" = 5' VER
1" = 5' HOR

3 6019 20014

SURVEY

TOWN ROAD 81+49.9

R.P.R. REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	S 0395 (B)	31	32



STATION	DISTANCE	YARDAGE				
		UNCL	EXCAVATION			FILL
+68 840						
6						
		70				
7						
		476				
8						
9 840		1,395				
9						
		1,263				
+55						
8 835						
7 830						
6 825						
5 820						
SHEET TOTAL		3,204				

SCALE 1" = 5'

SHEET TOTAL

3,204

FUNCTIONAL CROSS SECTION - OPEN DOTTED
CHAPLITE GRINDING COMPANY, INC.

SURVEY

TOWN ROAD 81+49.9

B.P.R. REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	S 0395 (3)	32	32

STATION	DISTANCE	YARDAGE			
		EXCAVATION			
		UNCL			FILL
15 820					
14 825	10				
	+45		1,320		
	11				
13 830	12		1,309		
	+35		208		
	13		174		
+35 835	14		74		
12 835					
11 840					
10+30 840					
SHEET TOTAL			3,085		

SCALE 1" = 5'

FUNCTIONAL CROSS SECTION - OPEN DOTTED

DATE
NO. 908
NOTE BOOK
MARK
NO. 908

DATE
NO. 908
NOTE BOOK
MARK
NO. 908