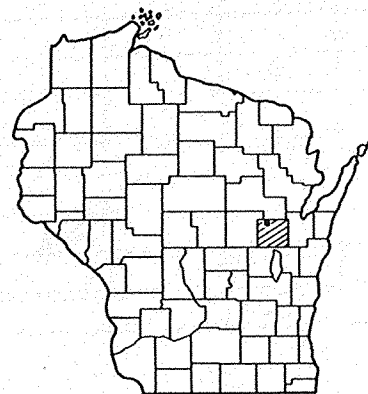


Index of Sheets		
Sheet No.	1	Title
Sheet No.	2	Typical Cross Sections
Sheet No.	2	Estimate of Quantities
Sheet No.	2A	Miscellaneous Quantities
Sheet No.	—	Right of Way Plat
Sheet No.	3-12	Plan and Profile Sta. 181+61.65 to Sta. 555+00
Sheet No.	13-13.5	Standard Details 279+55.95 " " 355+00
Sheet No.	—	Drainage Structures
Sheet No.	14-34	Cross Sections



Design Designation

A.D.T. (1970)	• 350
A.D.T. (1990)	• 550
D.H.V.	• 70%
D.	• 50%
T.	• 10%
V.	• 50 M.P.H.

END OF PROJECT S 0873(3) / 6015-1-71, 72
 STA. 355+00
 93.77 FEET SOUTH AND 2,000.79 FEET WEST
 OF THE NORTHEAST CORNER OF SECTION 6,
 TOWNSHIP 24 NORTH, RANGE 16 EAST.

BEGINNING OF PROJECT S0300(2)/6005-1-71,72
 STA. 181+61.65
 12.67 FEET SOUTH AND 476.03 FEET WEST OF THE
 EAST 1/4 CORNER OF SECTION 12, TOWNSHIP 24 NORTH,
 RANGE 15 EAST.

Conventional Signs

State Line	-----
County Line	-----
Township or Range Line	-----
Section Line	-----
New Right of Way Line	-----
Present Right of Way Line	-----
Wire Fence	-----
Lot Line	-----
Corporate or City Limits	-----
Property Line	-----
Traveled Way or P.E.	-----
Railroads	-----
Base or Survey Line	-----
Corrugated Metal Culvert Pipe	----- C.M.C.P.
Field Entrance	----- F.E.
Private Entrance	----- P.E.

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 72.1
Grade Elevation	Datum Line 70.3
Culvert Pipe Class III	C.P. CL. III
Excavation Below Subgrade	E.B.S.

STATE OF WISCONSIN
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

PLAN AND PROFILE OF PROPOSED

C.T.H. "XX"-LEEMAN ROAD AND NORTH COUNTY LINE-C.T.H. "F" ROAD

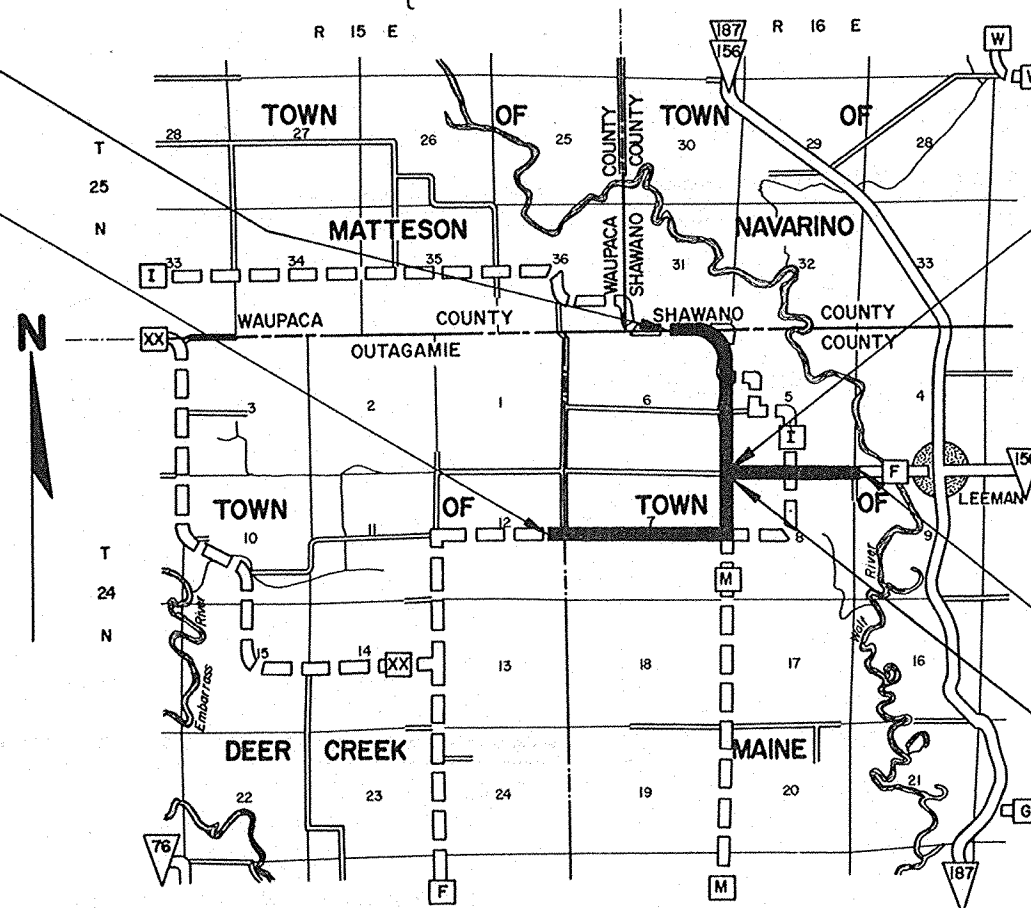
C.T.H. "F"

C.T.H. "I"

OUTAGAMIE COUNTY

PROJECT IDENTIFICATION NUMBER	FEDERAL PROJECT DESIGNATION
6005-1-71,72 / 6015-1-71,72	S 0300(2) / S0873(3)

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



BEGINNING OF PROJECT S 0873(3) / 6015-1-71,72
 STA. 279+55.95
 0.47 FEET SOUTH AND 13.12 FEET WEST OF THE
 SOUTHEAST CORNER OF SECTION 6, TOWNSHIP 24 NORTH,
 RANGE 16 EAST.

END OF PROJECT S 0300(2) / 6005-1-71,72
 STA. 555+00
 9 FEET NORTH AND 206 FEET EAST OF THE
 SOUTHWEST CORNER OF SECTION 4, TOWNSHIP 24 NORTH,
 RANGE 16 EAST
 EQUATION:
 STA. 279+55.95 BACK =
 STA. 500+00 AHEAD



Project S 0300(2)	Net Length of Centerline = 2.897 Mi. Rural
Project S 0873(3)	" " " " 1.429 Mi. Rural
Total	" " " " 4.326 Mi.

RECEIVED

OCT 5 - 1971

OUTAGAMIE COUNTY
HIGHWAY COMMISSION

Sheet Number	Total Sheets
1	34

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	
Surveyor: D.G.N.	Note Book: 870, 871
District Computer: R.G.P.	M.O. Checker: 1.6.2
District Checker: R.A.B.	Correct
Correct:	
Date: 1-13-71	<i>W.H. Jindler</i> District Engineer
Recommended for Approval:	
Date: 8-11-71	<i>J.C. Herman</i> Chief Design Engineer
Approved: <i>W.J. Burmeister</i>	State Highway Engineer
U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION BUREAU OF PUBLIC ROADS	
REGION 4 WISCONSIN DIVISION	
Approved:	
Date:	Division Engineer

S0300(2) S0873(3)

I-2

I-2

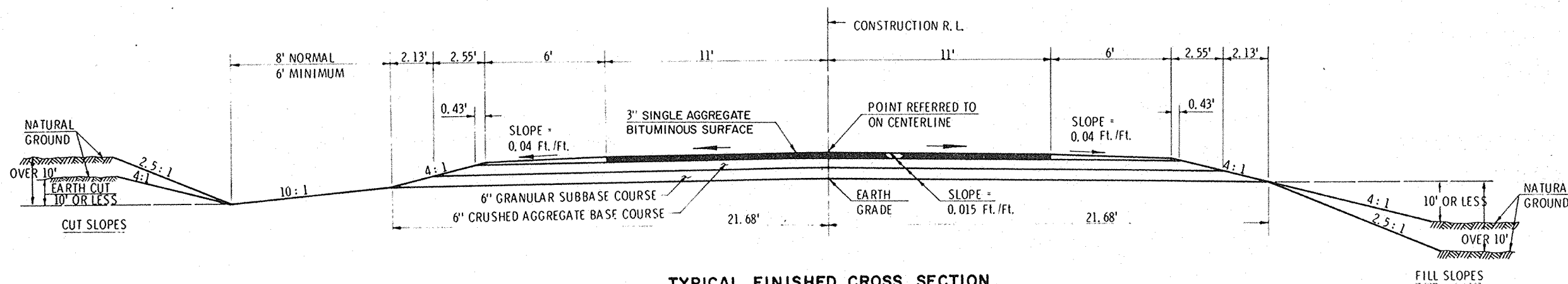
CONTRACT NO.1 (6005-1-71,72)
GRADE, BASE COURSE
CONTRACT NO.2
PRODUCING & HAULING BASE COURSE

F 1969, APPROVED

CONTRACT NO.1 (6015-1-71,72)
GRADE, BASE COURSE
CONTRACT NO.2
PRODUCING & HAULING BASE COURSE

PROJECT I.D. 6005-1-71,72 6015-1-71,72	SHEET NUMBER	TOTAL SHEETS
FEDERAL PROJECT DESIGNATION S 0300(2) S 0873(3)	2	34

CONTRACT NO.	STATION TO STATION		NET LENGTH OF CENTER LINE	CLEARING		GRUBBING		EXCAVATION		GRANULAR SUBBASE COURSE 6 - INCH	FINISHING ROADWAY S 0300(2)	OBLITER- ATING OLD ROAD	PRODUCING & HAULING CRUSHED AGGREGATE BASE COURSE	SHAPING & COMPACTING CRUSHED AGGREGATE BASE COURSE	CONCRETE SURFACE DRAINS	CULVERT PIPE CLASS III				APRON ENDWALLS FOR CULVERT PIPE				CONCRETE CURB & GUTTER, 30 - INCH TYPE "D"	MARKER POSTS	LANDMARK REFERENCE MONUMENTS	CALCIUM CHLORIDE SURFACE TREATMENT	SALVAGED TOPSOIL	EROSION MAT	FERTILIZER	SEEDING	FIELD OFFICE TYPE "A"	FINISHING ROADWAY S 0873(3)
								UNCLASSI- FIED	BORROW							18"	24"	30"	36"	18"	24"	30"	36"										
		ITEM NO. UNIT	LIN. FT.	2010I STA.	2010I I.D.	2010I STA.	2010I I.D.	20503 C.Y.	2080I C.Y.	21206 S.Y.	21302 L.S.	2140I STA.	9000I TON	9000I TON	40934 C.Y.	52003 L.F.	52006 L.F.	52007 L.F.	52009 L.F.	5206I EACH	52063 EACH	52065 EACH	52067 EACH	60133 L.F.	6142I EACH	6210I EACH	6230I TON	62505 S.Y.	62802 S.Y.	6290I CWT.	63002 LB.	6420I L.S.	21303 L.S.
	PROJECT S 0300(2)																																
1	181 + 61.65 - 555+00		15,294.30	23	1,013	23	1,144	25,089	9,185	70,200	I		22,700	2	672	548	138	74	48	24	4	2	220	30	3	29	57,500	1,000	26	780	I		
2	181 + 61.65 - 555+00											22,700																		I			
	TOTAL		15,294.30	23	1,013	23	1,144	25,089	9,185	70,200	I		22,700	2	672	548	138	74	48	24	4	2	220	30	3	29	57,500	1,000	26	780			
	PROJECT S 0873(3)																																
1	279 + 55.95 - 355+00		7,544.05	5	199	5	223	18,566	3,600	34,700		8	12,200		252	296	58		18	10	2		27	3	14	29,000	600	13	390		I		
2	279 + 55.95 - 355+00												12,200																				
	TOTAL		7,544.05	5	199	5	223	18,566.	3,600	34,700		8	12,200		252	296	58		18	10	2		27	3	14	29,000	600	13	390		I		



TYPICAL FINISHED CROSS SECTION

Wisconsin-Michigan Power Company
Urban Telephone Company
GENERAL NOTES

WHEN THE QUANTITY OF THE ITEMS OF SUBBASE, BASE, & SURFACE COURSE IS MEASURED FOR PAYMENT BY THE TON OR CUBIC YARD, THE DEPTH OR THICKNESS OF THE COURSE SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

Private utility companies shall adjust or move all privately owned facilities to fit the new construction.

The exact location of culvert pipe, private entrances and field entrances shall be determined by the engineer in the field.

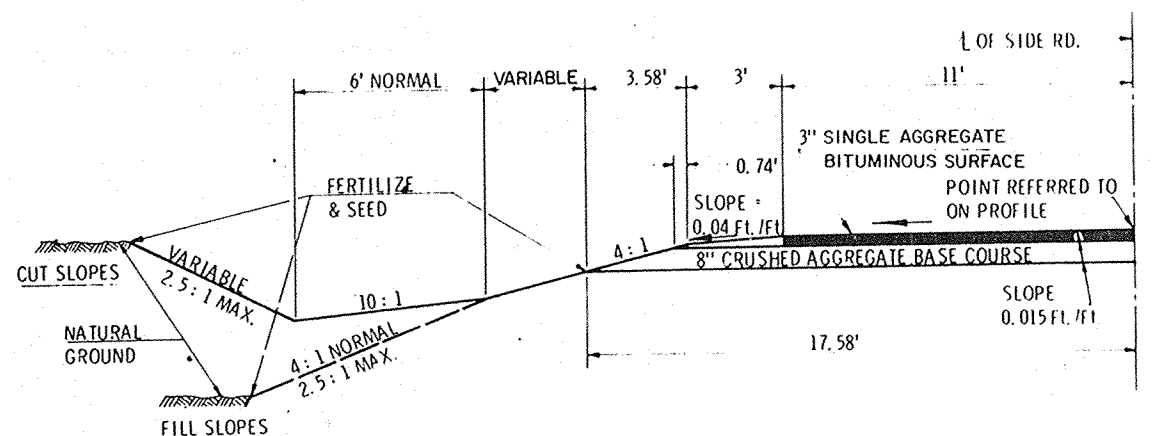
Cubic yards of fill as shown on the plan sheets pertains to embankment constructed from unclassified excavation computed with a shrinkage of 20% to 30% and borrow excavation with a shrinkage of 15%.

Excavation below subgrade between Sta. 328+00 and Sta. 332+00 shall be considered unclassified excavation and placed on fill slopes.

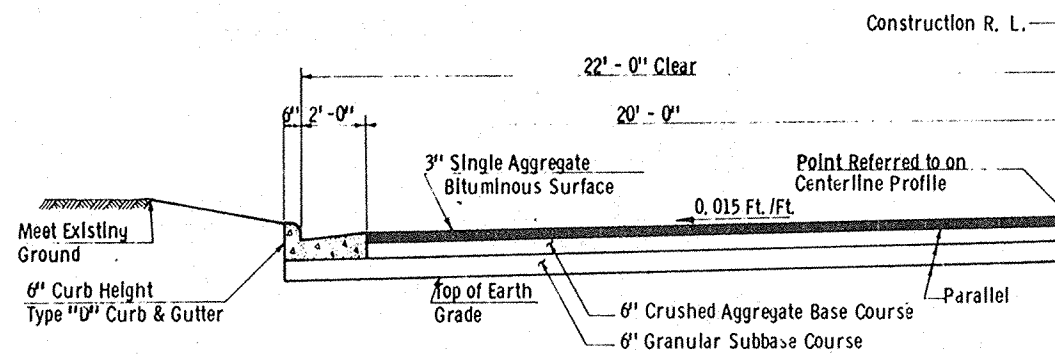
Bituminous surfacing not a part of this contract.
SALVAGED TOPSOIL SHALL BE PLACED TO AN APPROXIMATE DEPTH
OF 3" UNLESS OTHERWISE SHOWN ON THE PLANS.

STANDARD DETAIL DRAWINGS

Concrete Curb & Gutter, Surface Drain.....	3-1.1.7
Apron Endwalls For Culvert Pipe.....	6-2.6.9
Marker Posts.....	7-1.3.5
Construction Barricade.....	7-4.1.5
Design Details For At Grade Intersections.....	9-1.1.5
Landmark Reference Monuments.....	12-1.1.3



1/2 TYPICAL FINISHED SECTION FOR SIDE ROADS WITH BITUMINOUS SURFACE

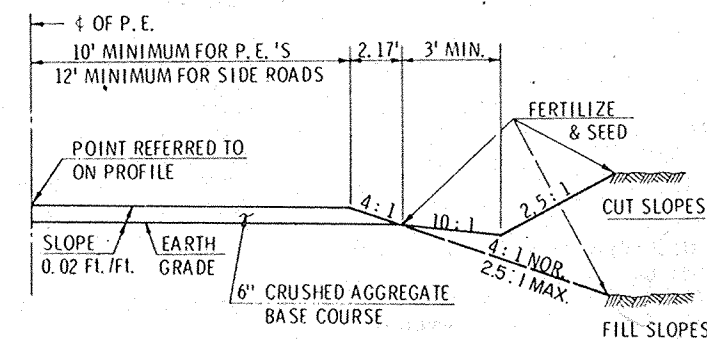


1/2 TYPICAL FINISHED SECTION

STA. 187 + 30 to STA. 189 + 50 LT.



SPECIAL DITCH CROSS SECTION



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

PROJECT I.D. 6005-1-71, 72
6015-1-71, 72
FEDERAL PROJECT DESIGNATION
S 0300(2)
S 0873(3)

Location	Tons
PROJECT S 0300(2)	
MAINLINE	
SIDE ROADS	21,000
PRIVATE ENTRANCES	1,200
PROJECT S 0873(3)	
MAINLINE	500
SIDE ROADS	10,400
PRIVATE ENTRANCES	1,600
	200

Location	Sq. Yd.	Approximate Cu. Yd.
PROJ. S 0300(2)	70,200	13,500
PROJ. S 0873(3)	34,700	6,600

Station to Station	Location	Spacing	Each
PROJ. S 0300(2)	UNDISTRIBUTED		30
PROJ. S 0873(3)			
330 +50-338+50	RT.	100'	9
340+00-345+00	RT.	100'	6
UNDISTRIBUTED			12

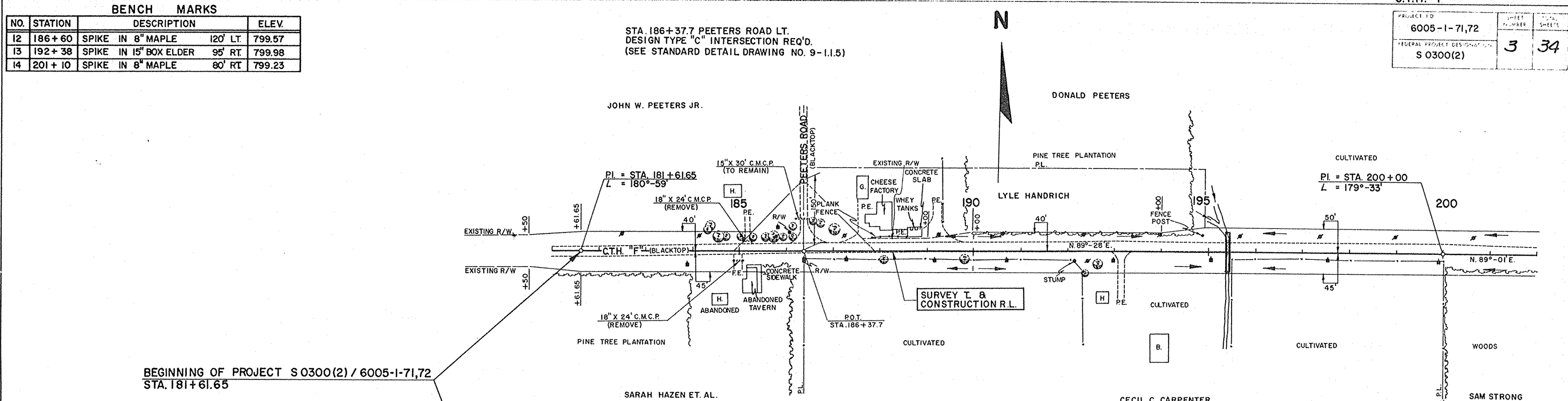
CROSS DRAIN & PRIVATE ENTRANCE PIPES					
PROJ. S 0300(2) Station	Location	Diameter	Length	Type	Apron Endwalls
195+41	R. L.	30"	84'	C. P. CI. III	2
218+00	R. L.	36"	74'	"	2
227+33	R. L.	24"	44'	"	2
232+60	R. L.	24"	58'	"	2
247+72	R. L.	24"	44'	"	2
253+41	R. L.	24"	48'	"	2
253+90.25	TN. RD. RT.	24"	36'	"	2
259+55	R. L.	30"	54'	C. P. CI. III	2
271+45	R. L.	24"	60'	"	2
279+10	R. L.	24"	36'	"	2
499+29	R. L.	24"	46'	"	2
515+00	R. L.	24"	48'	"	2
522+10	R. L.	24"	54'	"	2
532+12	R. L.	24"	58'	"	2
550+38	R. L.	24"	672'	"	2
24 PRIVATE ENTRANCES @ 18" x 28"					
279+95	R. L.	24"	60'	C. P. CI. III	48
288+90	R. L.	24"	50'	"	2
292+89	R. L.	24"	50'	"	2
309+00	R. L.	30"	58'	"	2
321+05	R. L.	24"	58'	"	2
342+00	R. L.	24"	78'	"	2
9 PRIVATE ENTRANCES @ 18" x 28"					
			252'	"	2
				"	2
				"	2

Station to Station		Clearing		Grubbing	
Sta.	In. Dia.	Sta.	In. Dia.	Sta.	In. Dia.
PROJ. S 0300(2)					
181+61.65 - 185+00					
185+00 - 187+00					
187+00 - 200+00					
200+00 - 206+00					
206+00 - 207+00					
207+00 - 214+00					
214+00 - 545+00					
545+00 - 553+00					
553+00 - 555+00					
PROJ. S 0873(3)					
279+55.95 - 281+00					
281+00 - 286+00					
286+00 - 355+00					
* DENOTES BASIS OF PAYMENT					

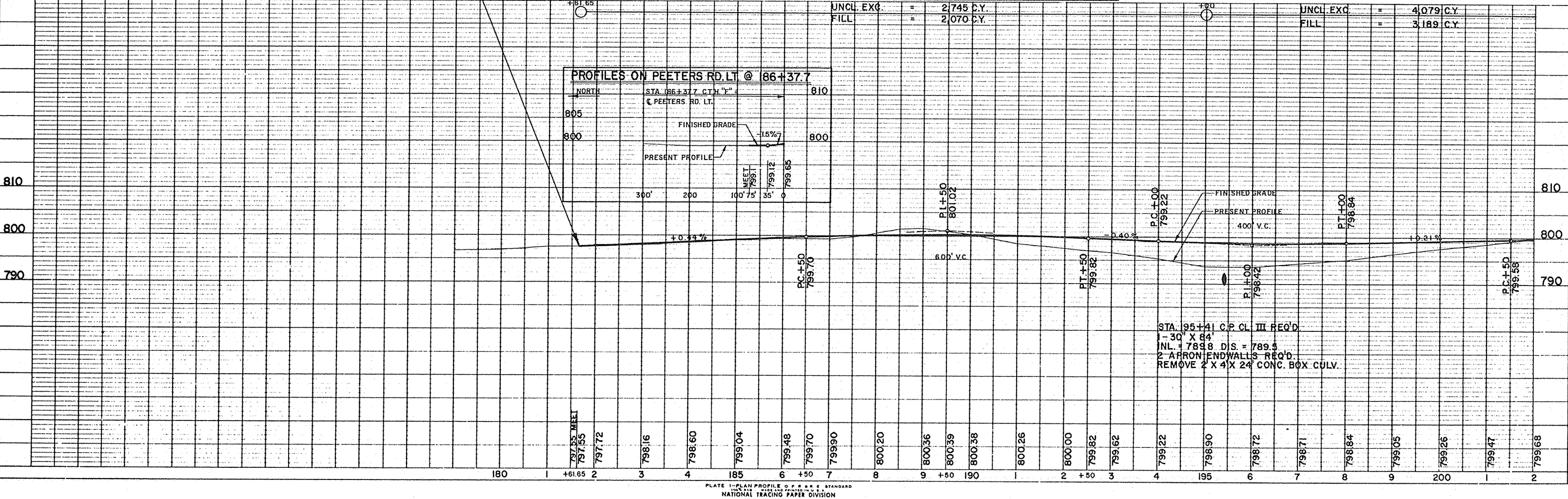
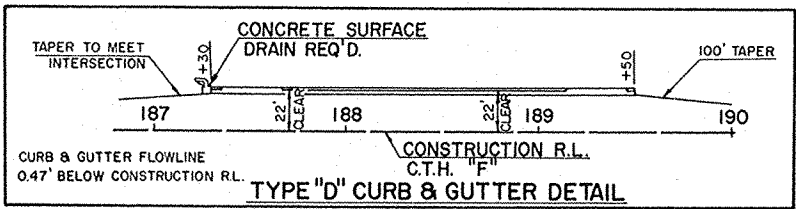
Location	Pounds	Sq. Yd.
PROJ. S 0300(2) MIXTURE NO. 1	780	57,500
PROJ. S 0873(3) MIXTURE NO. 1	390	29,000

BENCH MARKS				
NO.	STATION	DESCRIPTION		ELEV.
12	186+60	SPIKE IN 8" MAPLE	120' LT.	799.57
13	192+38	SPIKE IN 15" BOX ELDER	95' RT.	799.98
14	201+10	SPIKE IN 8" MAPLE	80' RT.	799.23

C.T.H. "F"		
PROJECT NO.	6005-1-71,72	SHEET NUMBER
FEDERAL PROJECT DESIGNATION	S 0300(2)	3
		34



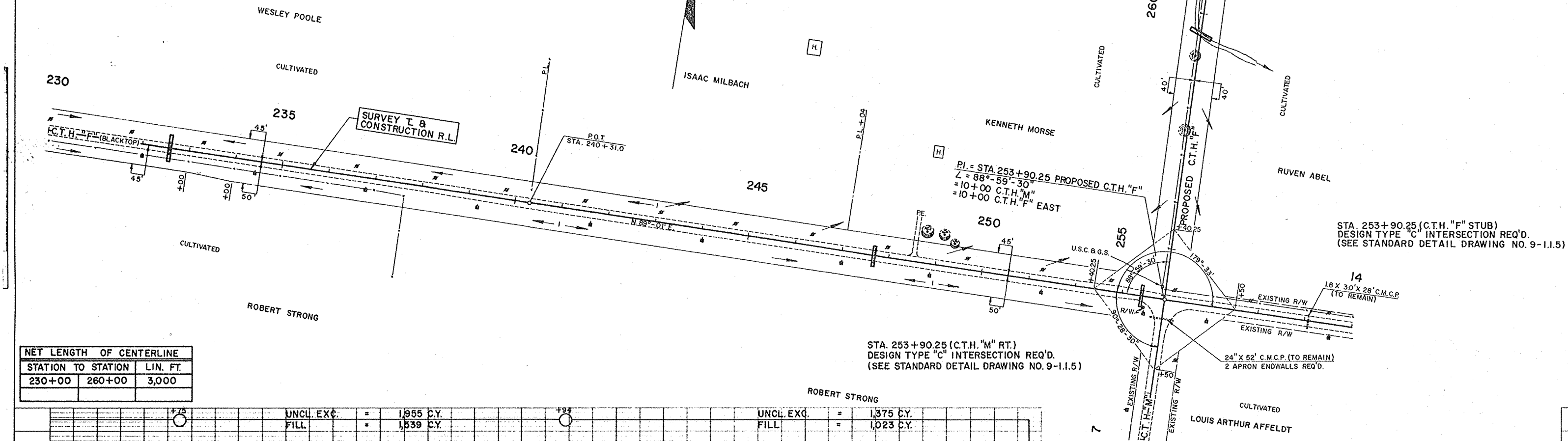
NET LENGTH OF CENTERLINE		
STATION TO STATION	LIN. FT.	
181+61.65	200+00	1,838.35



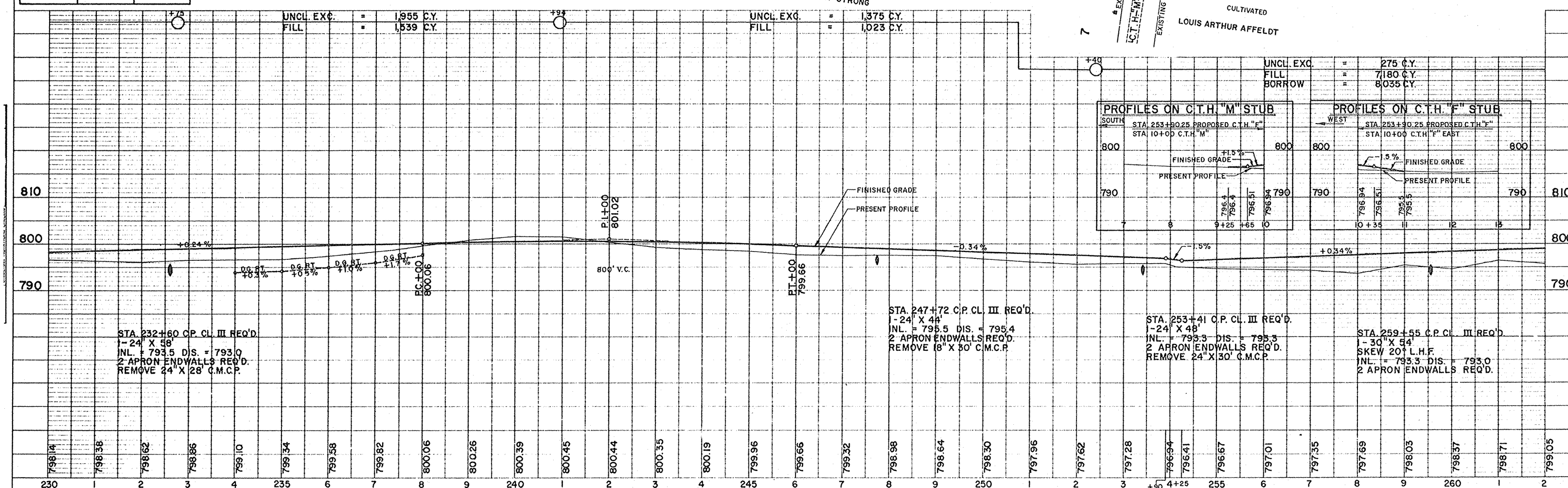
C.T.H. "F"

PROJECT NO.	SHEET NUMBER	TOTAL SHEETS
6005-1-71,72	5	34
FEDERAL PROJECT DESIGNATION S 0300(2)		

BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
18	249+37	SPIKE IN 10' APPLE	50' LT. 801.00
19	254+12	U.S.C. & G.S. NO. 234	6' LT. 794.95
20	257+50	SPIKE IN 24' ELM	5' LT. 795.07



NET LENGTH OF CENTERLINE		
STATION TO STATION	LIN. FT.	
230+00	260+00	3,000

PLATE 1 PLAN PROFILE (SHEET 5 OF 5)
NATIONAL TRACING PAPER DIVISION

BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
21	266+50	SPIKE IN 18" ELM 75' RT.	799.44
22	279+40	SPIKE IN 20" ELM 150' LT.	802.55
23	502+90	SPIKE IN 18" TWIN ELM 125' LT.	801.48

CURVE NOTES

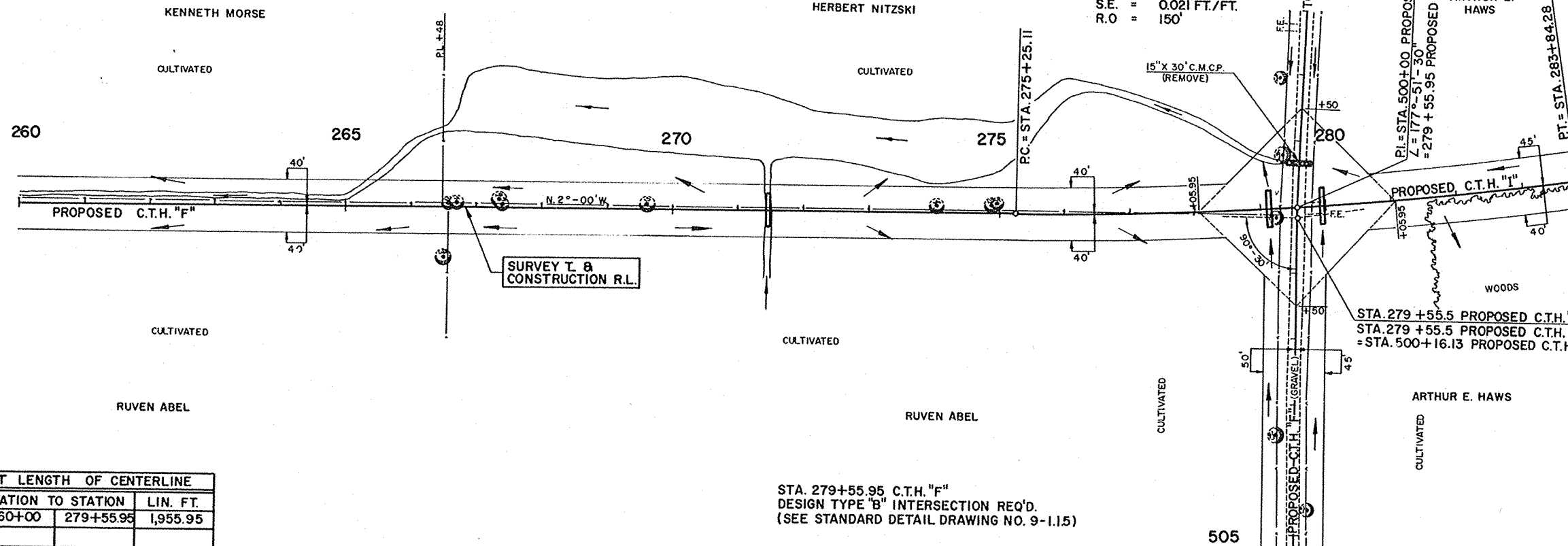
P.I. = 279+55.5
 L = 171'-24"-30"
 Δ = 8°-35'-30"
 D = 1°-00'
 T = 430.39'
 L = 859.17'
 R = 5729.58'
 S.E. = 0.021 FT./FT.
 R.O. = 150'

STA. 279+55.95 TOWN RD. LT.
 DESIGN TYPE "B" INTERSECTION REQ'D.
 (SEE STANDARD DETAIL DRAWING NO. 9-1.1.5)

C.T.H. "F"

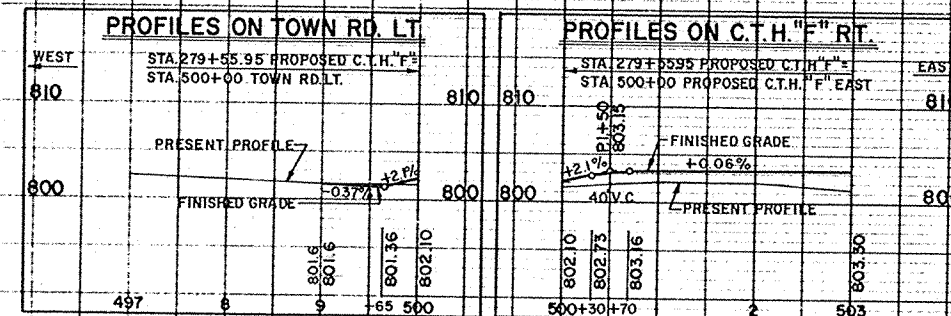
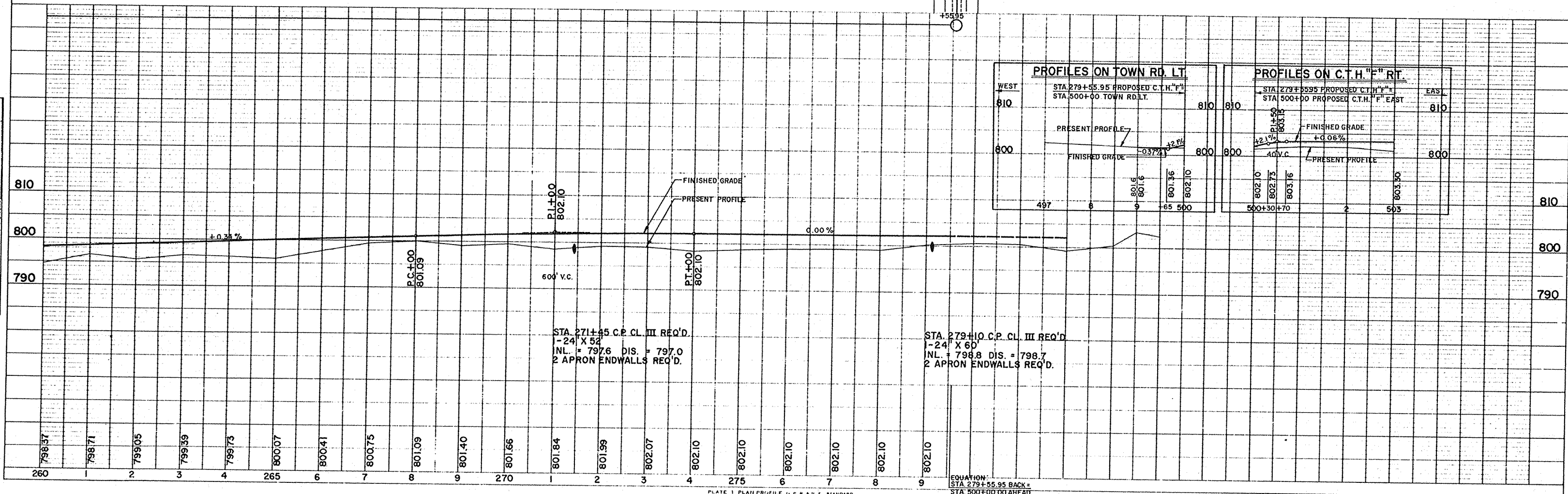
PROJECT NO.	SHEET NUMBER	TOTAL SHEETS
6005-1-71,72	6	34
FEDERAL PROJECT DESIGNATION S 0300(2)		

STA. 499+29 TOWN ROAD C.P. CL. III REQ'D.
 1-24" X 36"
 INL. = 798.7 DIS. = 798.7
 2 APRON ENDWALLS REQ'D.



NET LENGTH OF CENTERLINE		
STATION TO STATION	LIN. FT.	
260+00	279+55.95	1,955.95

STA. 279+55.95 C.T.H. "F"
 DESIGN TYPE "B" INTERSECTION REQ'D.
 (SEE STANDARD DETAIL DRAWING NO. 9-1.1.5)



STA. 271+45 C.P. CL. III REQ'D.
 1-24" X 52"
 INL. = 797.6 DIS. = 797.0
 2 APRON ENDWALLS REQ'D.

STA. 279+10 C.P. CL. III REQ'D.
 1-24" X 60"
 INL. = 798.8 DIS. = 798.7
 2 APRON ENDWALLS REQ'D.

EQUATION:
 STA 279+55.95 BACK =
 STA 500+00.00 AHEAD

C.T.H. "F"

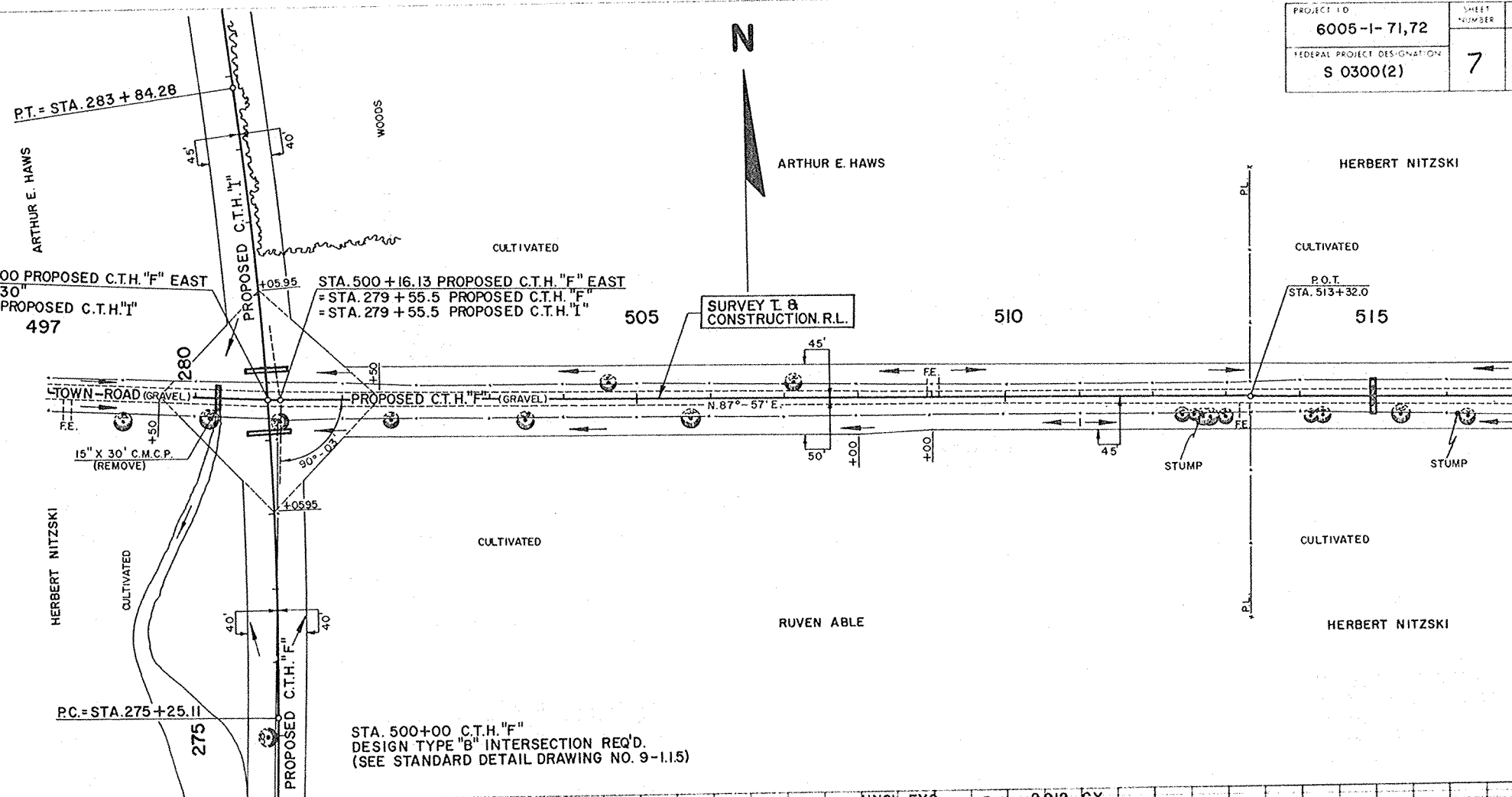
PROJECT NO.	6005-1-71,72	SHEET NUMBER	7	TOTAL SHEETS	34
FEDERAL PROJECT DESIGNATION	S 0300(2)				

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
22	279+40	SPIKE IN 20" ELM 150' LT	802.55
23	502+90	SPIKE IN 18" TWIN ELM 125' LT	801.48

CURVE NOTES

P.I. = 279+55.5
 L = 171°-24'-30"
 Δ = 8°-35'-30"
 D = 1°-00'
 T = 430.39'
 L = 859.17'
 R = 5,729.58'
 S.E. = 0.021 FT./FT.
 R.O. = 150'



NET LENGTH OF CENTERLINE

STATION TO STATION	LIN. FT.
500+00	515+00
	1,500

UNCL. EXC. = 2,912 C.Y.
 FILL = 3,080 C.Y.
 BORROW = 1,150 C.Y.

810

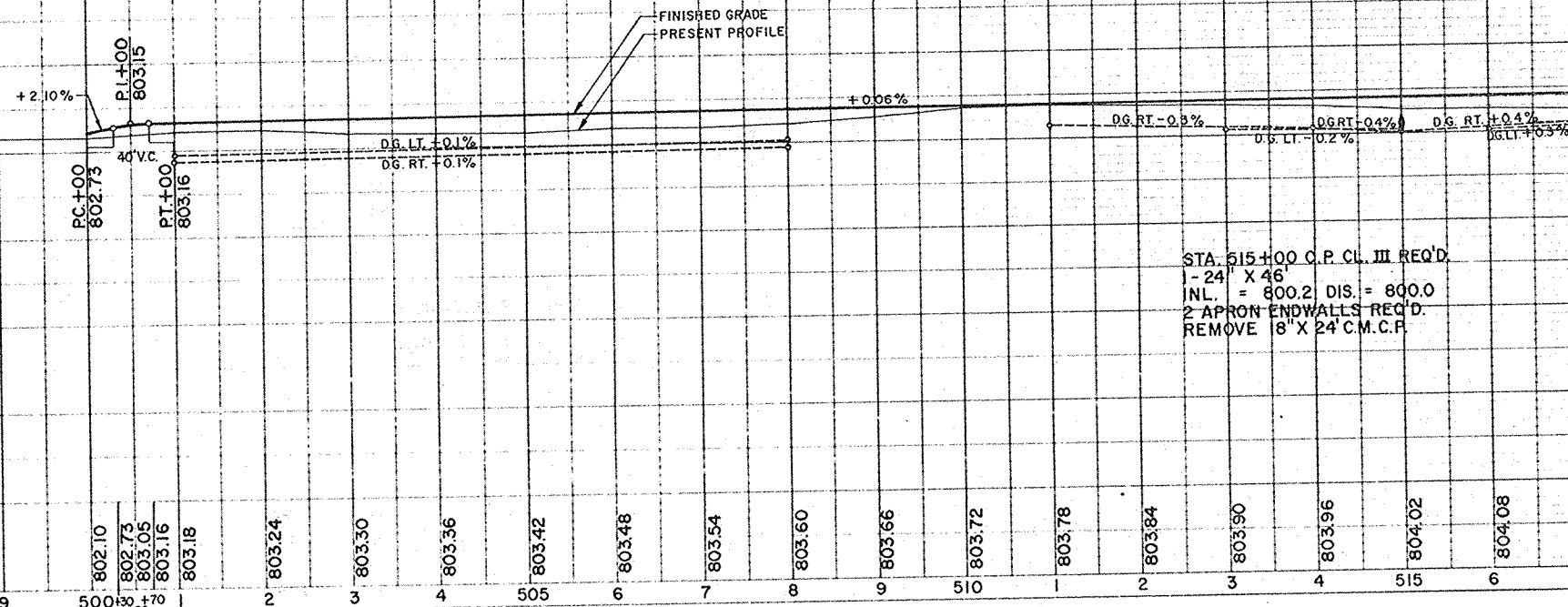
800

790

810

800

790

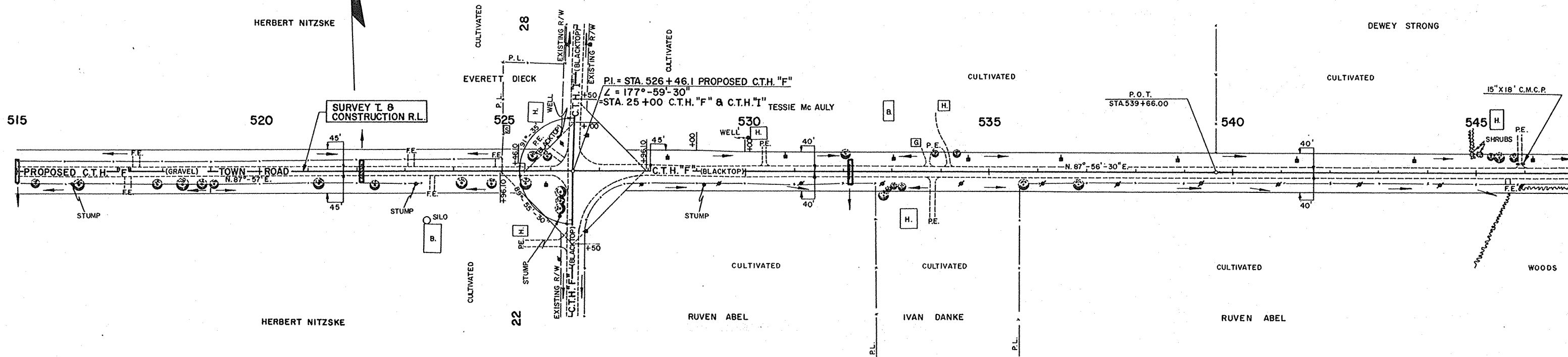


BENCH MARKS				
NO.	STATION	DESCRIPTION		ELEV.
24	518+75	SPIKE IN 12" TWIN ELM	25' RT.	805.73
25	24+22	36" MAPLE S.W. COR. INTER.	23' LT.	806.44
26-F	532+80	P.K. IN 24" MAPLE	48' RT.	798.96
27-F	544+40	P.K. IN 8" CHERRY	120' LT.	792.15

STA. 526+46.1 (C.T.H. "I" LT.)
 DESIGN TYPE "C" INTERSECTION REQ'D.
 (SEE STANDARD DETAIL DRAWING NO. 9-1.15)

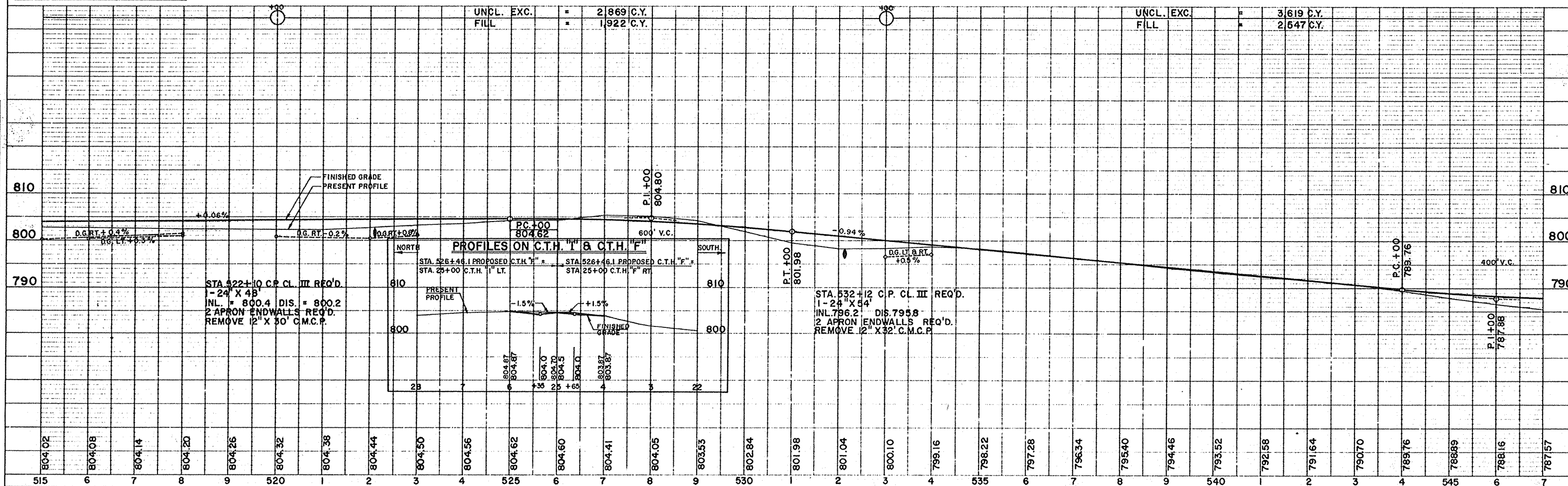
C.T.H. "F"

PROJECT NO.	SHEET NUMBER	TOTAL SHEETS
6005-1-71,72	8	34
FEDERAL PROJECT DESIGNATION		
S 0300(2)		



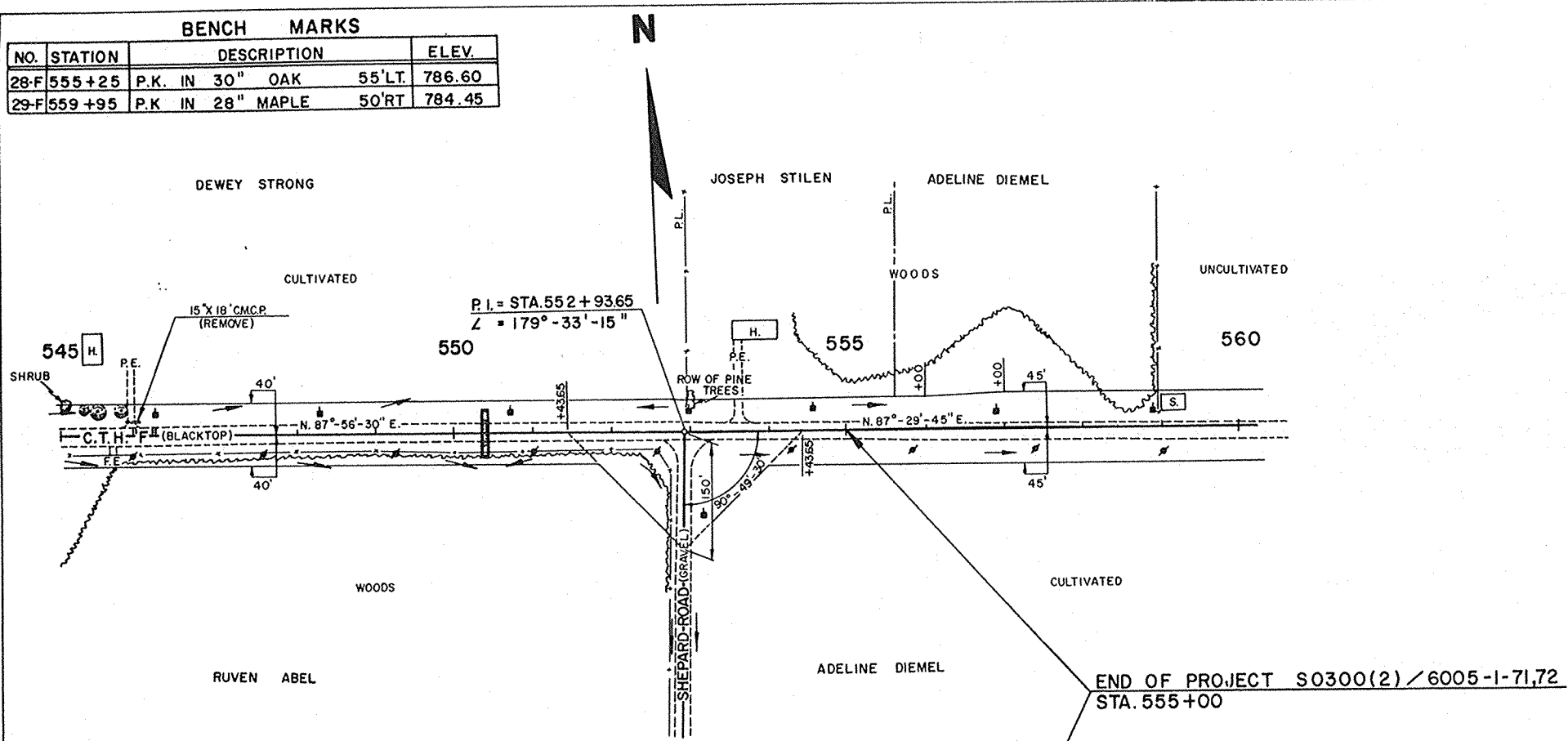
NET LENGTH OF CENTERLINE		
STATION TO STATION	LIN. FT.	
515+00	545+00	3,000.00

STA. 526+46.1 (C.T.H. "F" RT.)
 DESIGN TYPE "C" INTERSECTION REQ'D.
 (SEE STANDARD DETAIL DRAWING NO. 9-1.15)



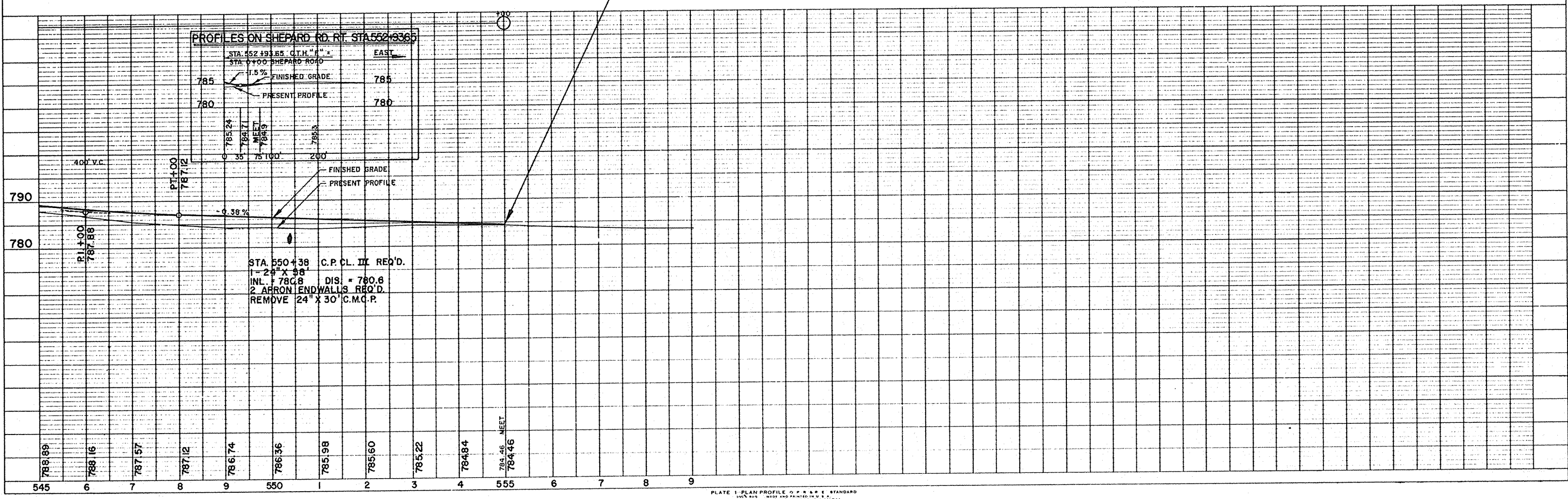
BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
28-F	555+25	P.K. IN 30" OAK	55'LT. 786.60
29-F	559+95	P.K. IN 28" MAPLE	50'RT. 784.45

PROJECT ID	SHEET NUMBER	TOTAL SHEETS
6005-1-71,72	9	34
FEDERAL PROJECT DESIGNATION S 0300(2)		



STA. 552+93.65 (SHEPARD ROAD RT.)
DESIGN TYPE "C" INTERSECTION REQ'D.
(SEE STANDARD DETAIL DRAWING NO.9-1.1.5)

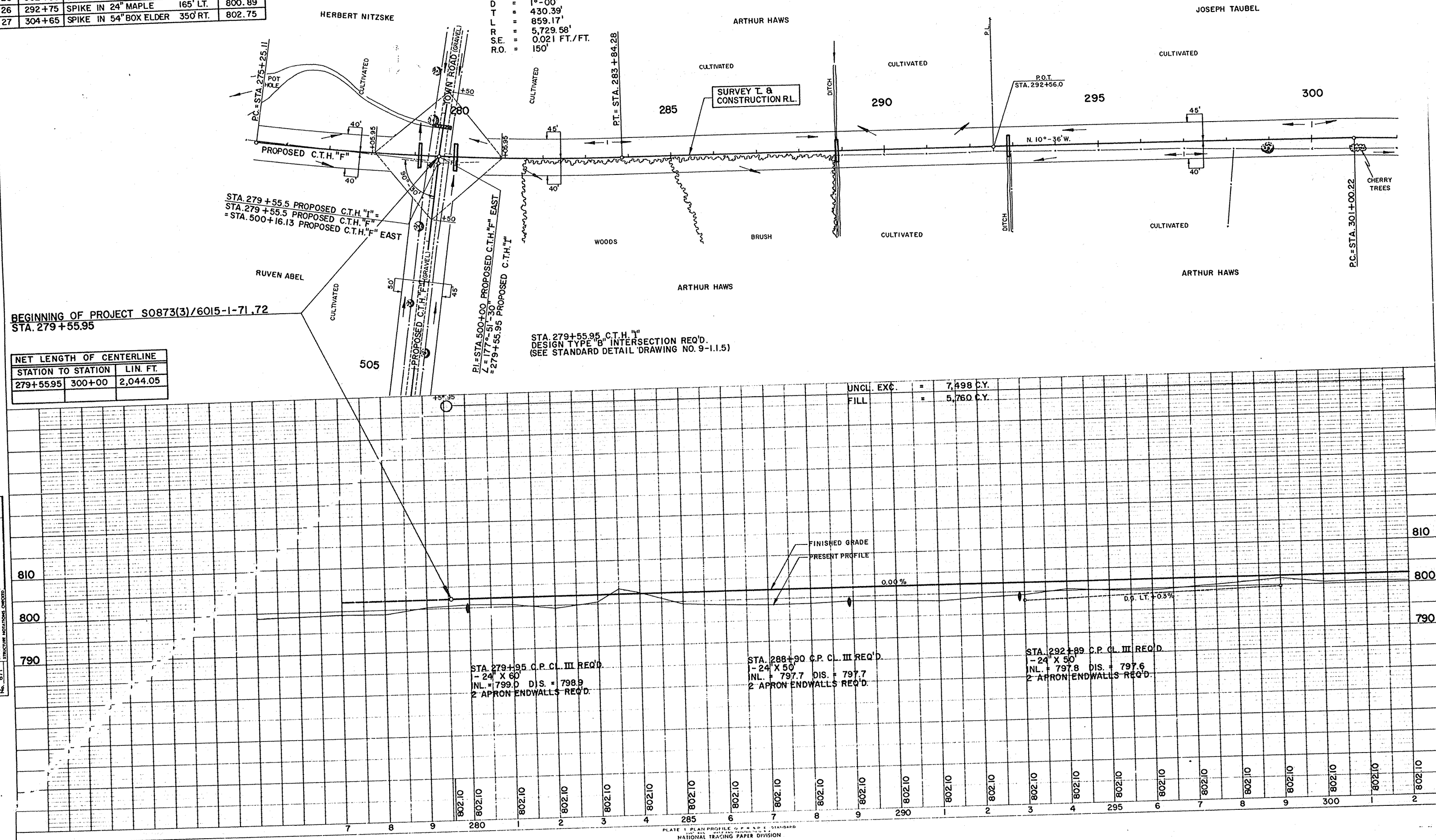
END OF PROJECT S0300(2) / 6005-1-71,72
STA. 555+00



BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
22	279+40	SPIKE IN 20" ELM 150' LT.	802.55
23	502+90	SPIKE IN 18" TWIN ELM 125' LT.	801.48
26	292+75	SPIKE IN 24" MAPLE 165' LT.	800.89
27	304+65	SPIKE IN 54" BOX ELDER 350' RT.	802.75

CURVE NOTES

P.I. = 279+55.5
 $\angle$ = $171^{\circ}-24'-30''$
 Δ = $8^{\circ}-35'-30''$
D = $1^{\circ}-00'$
T = 430.39'
L = 859.17'
R = 5,729.58'
S.E. = 0.021 FT./FT.
R.O. = $150'$



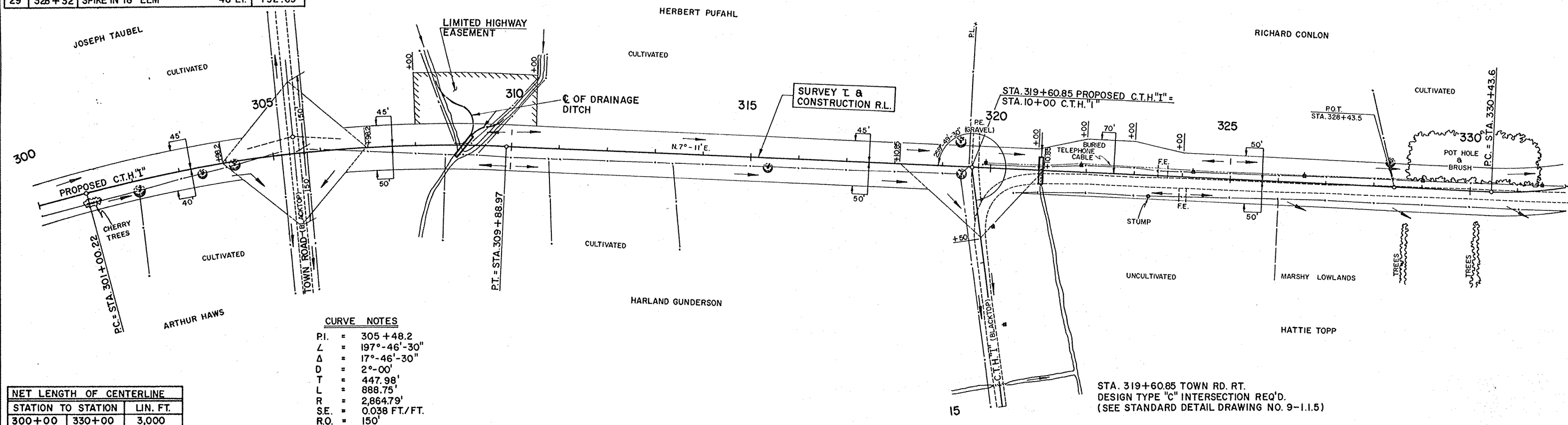
C.T.H. "I"

PROJECT NO.	SHEET NUMBER	TOTAL SHEETS
6015-1-71,72	11	34
FEDERAL PROJECT DESIGNATION		
S 087(3)		

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
27	304+65	SPIKE IN 54" BOX ELDER	350' RT. 802.75
28	319+37	SPIKE IN 23" ELM	50' LT. 792.99
29	328+32	SPIKE IN 18" ELM	48' LT. 792.69

STA. 305±48 TOWN ROAD LT. & RT.
DESIGN TYPE "C" INTERSECTION REQ'D.
(SEE STANDARD DETAIL DRAWING NO. 9-1.1.5)

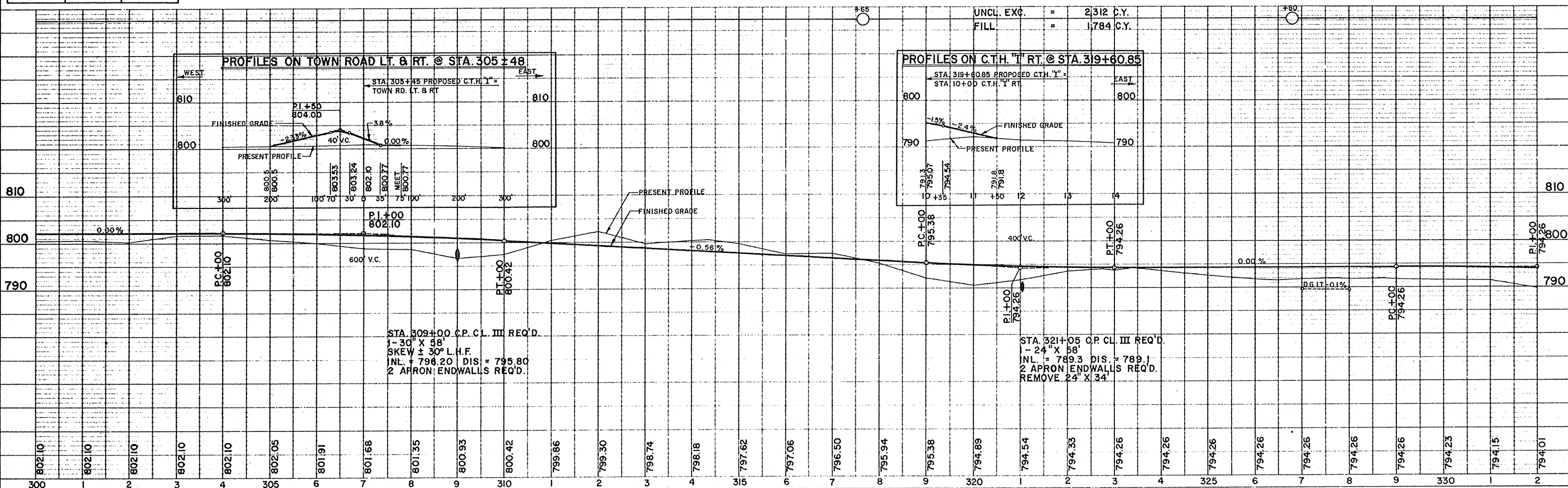


CURVE NOTES

P.I. = 305+48.2
 L = 197°-46'-30"
 Δ = 17°-46'-30"
 D = 2°-00'
 T = 447.98'
 L = 888.75'
 R = 2,864.79'
 S.E. = 0.038 FT./FT.
 R.O. = 150'

NET LENGTH OF CENTERLINE		
STATION TO STATION	LIN. FT.	
300+00	330+00	3,000

UNCL. EXC. = 2,312 C.Y.
 FILL = 1,784 C.Y.



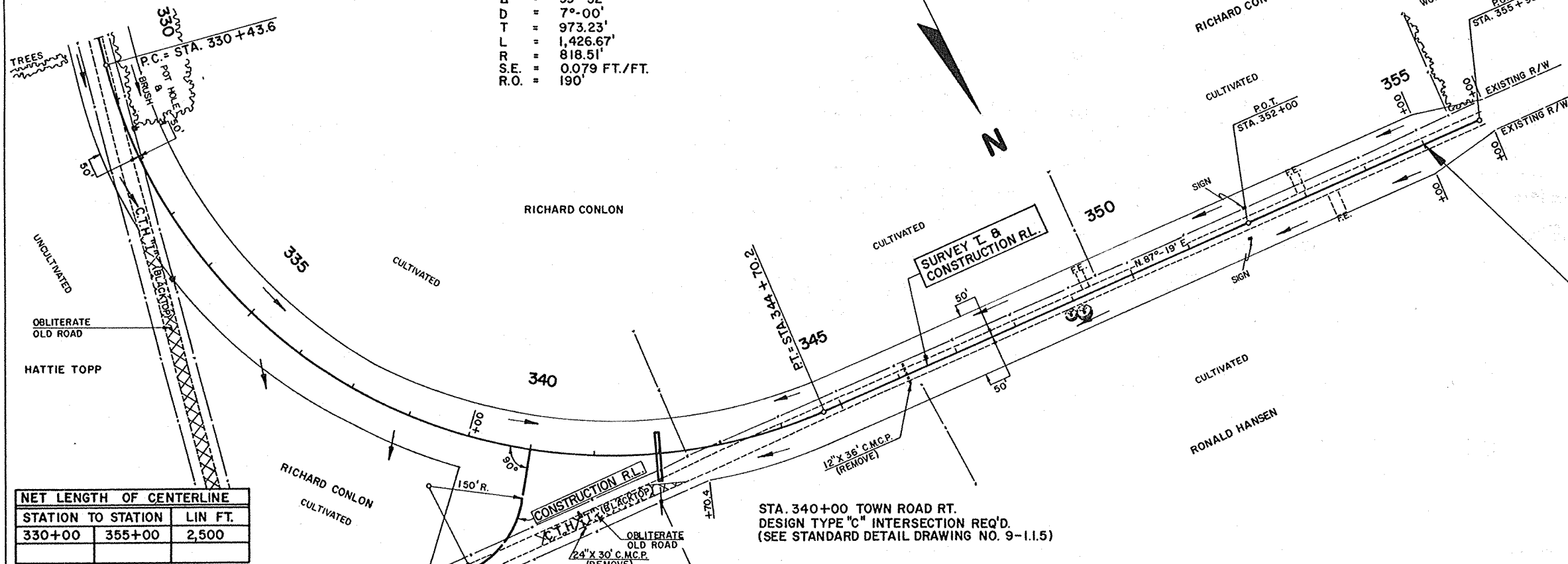
PROJECT NO. 6015-1-71,72	SHEET NUMBER 12	TOTAL SHEETS 34
FEDERAL PROJECT DESIGNATION S 0873(3)		

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
30	AT P.I.	SPIKE IN 10" APPLE, WEST OF P.E. AT FARM	788.73
31	348+89	SPIKE IN 24" MAPLE 17' RT.	795.06
32	355+64	SPIKE IN 16" TWIN MAPLE 32' LT.	796.99

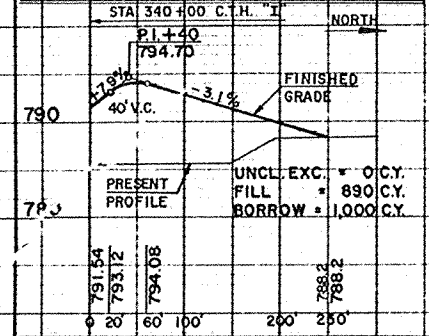
CURVE NOTES

P.I. = 340+16.8
 Δ = 80°-08'
 D = 99°-52'
 T = 7°-00'
 L = 973.23'
 E = 1,426.67'
 R = 818.51'
 S.E. = 0.079 FT./FT.
 R.O. = 190'

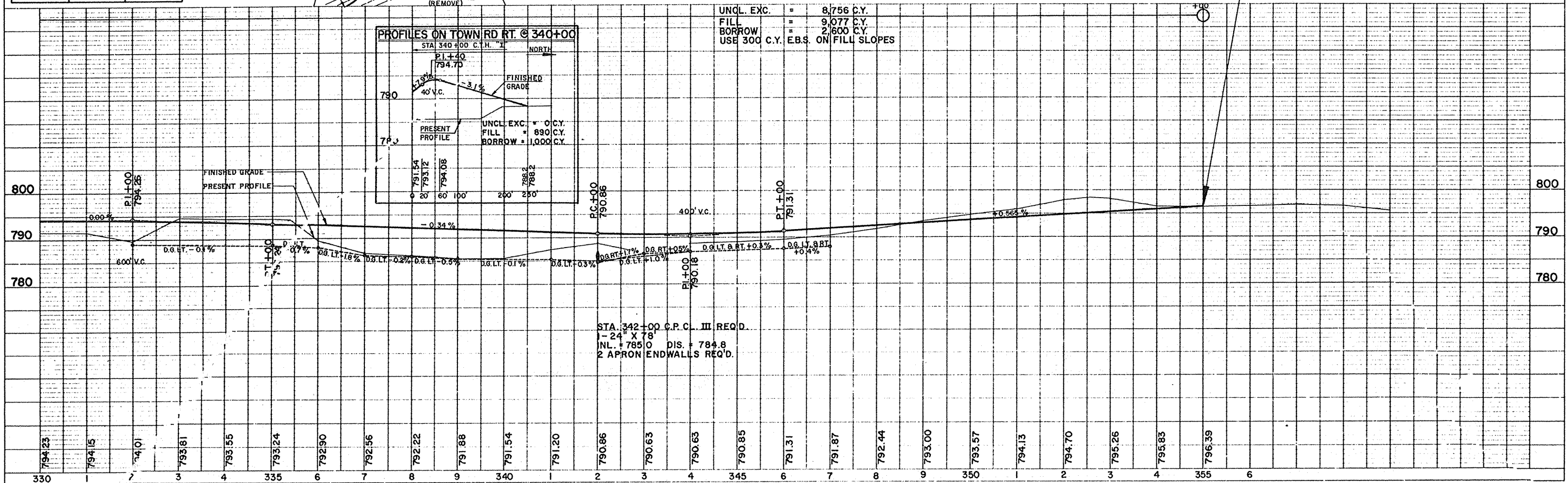


NET LENGTH OF CENTERLINE		
STATION TO STATION	LINE	FT.
330+00	355+00	2,500

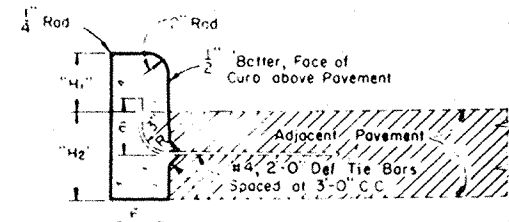
PROFILES ON TOWN RD RT. @ 340+00



UNCL. EXC. = 8,756 C.Y.
 FILL = 9,077 C.Y.
 BORROW = 2,600 C.Y.
 USE 300 C.Y. E.B.S. ON FILL SLOPES



STA. 342+00 C.P.C. III REQ'D.
 1-24" X 78"
 INL. = 785.0 DIS. = 784.8
 2 APRON ENDWALLS REQ'D.



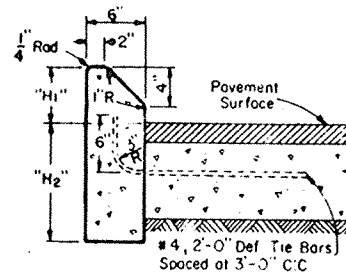
Tie Bar recess positioned in reverse when Concrete Curb is constructed first.

"H": 9" max and 3 1/2" min, and shall be 6" unless otherwise shown on the plans.

"H2": Same as adjacent pavement thickness for rigid pavement and 12" for other than rigid pavement (Tie Bars Omitted).

TYPE "A" (Including Tie Bars) TYPE "D" (Excluding Tie Bars)

CONCRETE CURB

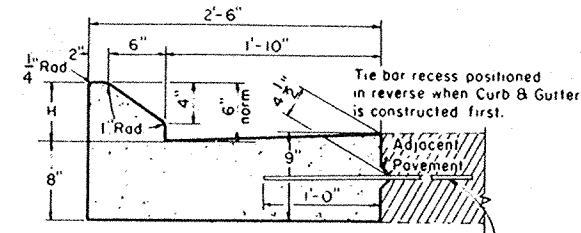


"H": 9" Max and 4" min and shall be 6" unless otherwise shown on plans.

"H2": Same as adjacent pavement thickness for rigid pavement and 12" for other than rigid pavement (Tie Bars Omitted).

TYPE "G" (Including Tie Bars) TYPE "J" (Excluding Tie Bars)

CONCRETE CURB (Mountable Type)

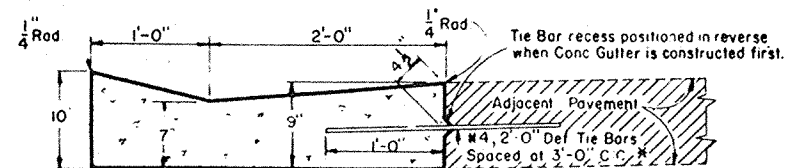


"H": 9" max and 4" min & shall be 6" unless otherwise shown on the plans.

#4, 2'-0" Def Tie Bars or alternate Bolt Type instal. may be used, spaced at 3'-0" C.C.

TYPE "G" (Including Tie Bars) TYPE "J" (Excluding Tie Bars)

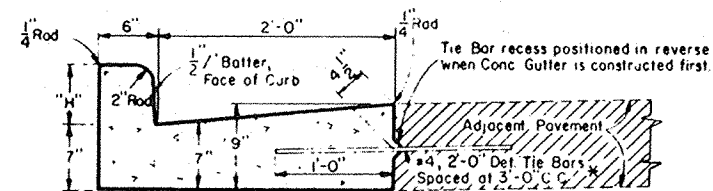
CONCRETE CURB AND GUTTER (Mountable Type)



* Alternate Tie Bars or Bolt Type installations may be used as shown for Longitudinal Joints.

TYPE "A" (Including Tie Bars) TYPE "D" (Excluding Tie Bars)

CONCRETE GUTTER

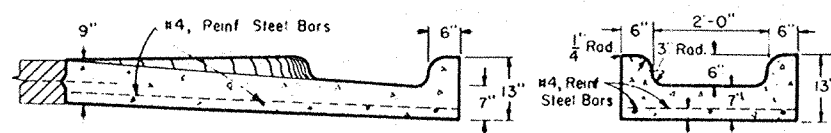
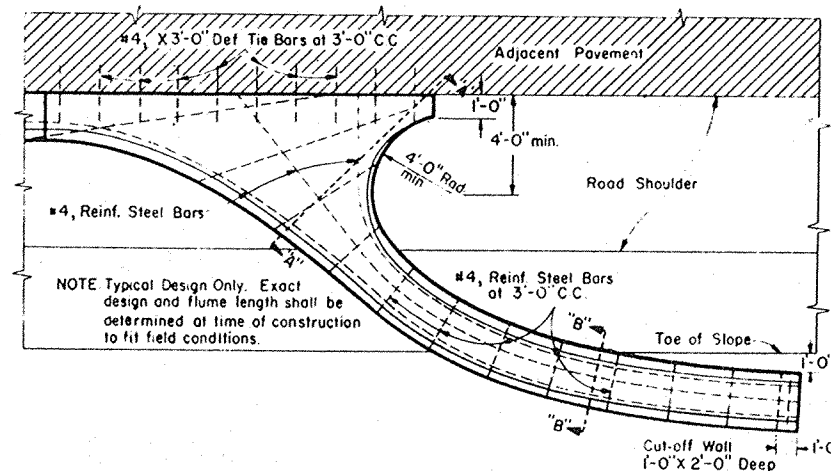


"H": 9" Max, 3 1/2" Min, and shall be 6" unless otherwise shown on the plans.

* Alternate Tie Bars or Bolt Type installations may be used as shown for Longitudinal Joints.

TYPE "A" (Including Tie Bars) TYPE "D" (Excluding Tie Bars)

CONCRETE CURB AND GUTTER (Barrier Type)



SECTION "A-A"

SECTION "B-B"

CONCRETE INLET OR DISCHARGE FOR CURB AND GUTTER SURFACE DRAIN

GENERAL NOTES

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

JOINTS -

Joints shall not be sealed in concrete curb, concrete gutter, concrete curb and gutter, or concrete surface drains.

CONCRETE CURB, CONCRETE GUTTER CONCRETE CURB AND GUTTER AND CONCRETE SURFACE DRAINS

STATE HIGHWAY COMMISSION OF WISCONSIN

RECOMMENDED FOR APPROVAL

DATE 2-5-63

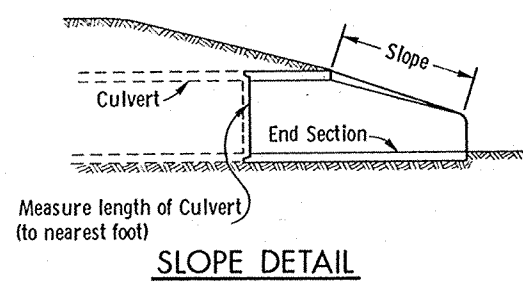
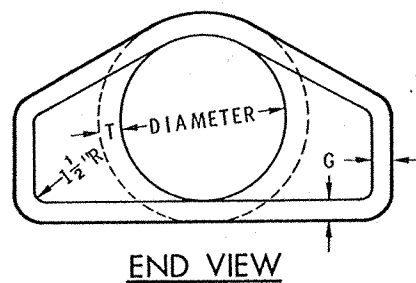
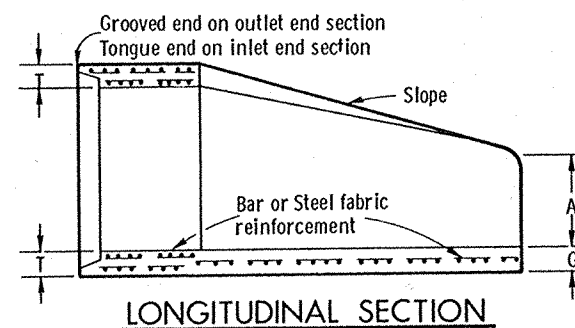
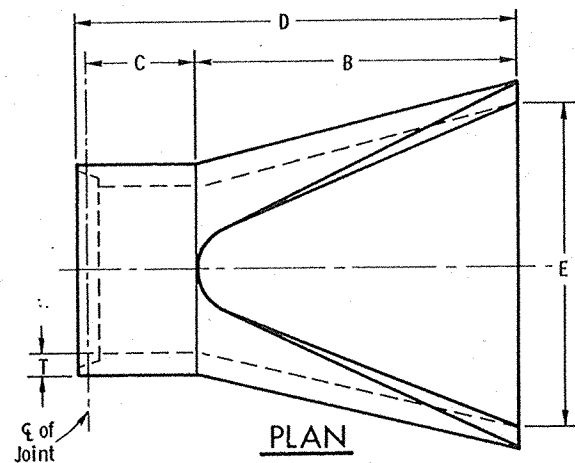
APPROVED:

DATE 2/6/63

J. S. Pelt ENGINEER OF DESIGN

E. C. Rutledge STATE HIGHWAY ENGINEER

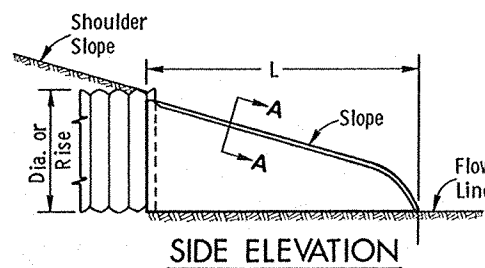
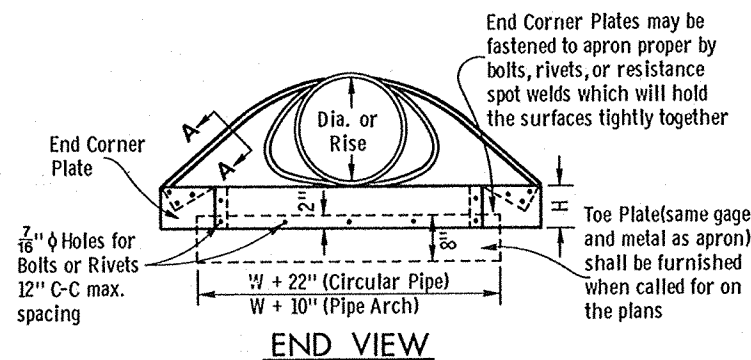
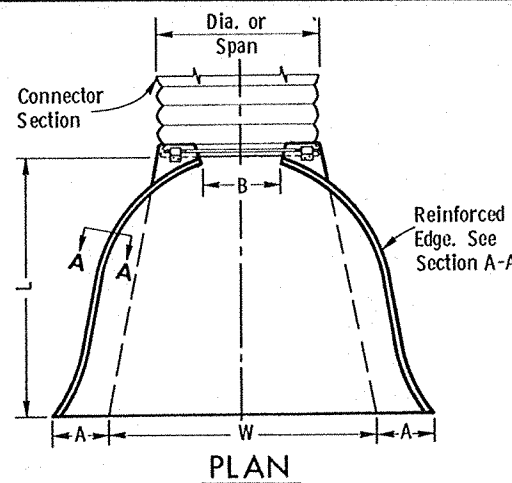
PLATE NO. 3-1.1.7



DIA.	APPROX. WEIGHT/SECTION	APPROX. SLOPE	T	A	B	C	D	E	G
12"	530	3 to 1	2"	4"	24"	48 7/8"	72 7/8"	24"	2"
15"	740	3 to 1	2 1/4"	6"	27"	46"	73"	30"	2 1/4"
18"	990	3 to 1	2 1/2"	9"	27"	46"	73"	36"	2 1/2"
21"	1,280	3 to 1	2 3/4"	9"	36"	37 1/2"	73 1/2"	42"	2 3/4"
24"	1,520	3 to 1	3"	9 1/2"	43 1/2"	30"	73 1/2"	48"	3"
27"	1,930	3 to 1	3 1/4"	10 1/2"	49 1/2"	24"	73 1/2"	54"	3 1/4"
30"	2,190	3 to 1	3 1/2"	12"	54"	19 3/4"	73 3/4"	60"	3 1/2"
36"	4,100	3 to 1	4"	15"	63"	34 3/4"	97 3/4"	72"	4"
42"	5,380	3 to 1	4 1/2"	21"	63"	35"	98"	78"	4 1/2"
48"	6,550	3 to 1	5"	24"	72"	26"	98"	84"	5"
54"	8,040	2 1/2 to 1	5 1/2"	27"	65"	33 1/4" - 35"	98 1/4" - 100"	90"	5"
60"	8,730	2 to 1	6"	30"	60"	39"	99"	96"	5"
66"	10,630	2 to 1	6 1/2"	34"	66"	41"	102"	102"	5 1/2"
72"	12,520	2 to 1	7"	36"	72"	41"	108"	108"	6"
78"	14,430	2 to 1	7 1/2"	38"	78"	41"	114"	114"	6 1/2"
84"	18,160	1 1/2 to 1	8"	36"	90 1/2"	21"	111 1/2"	120"	6 1/2"

** Minimum
* Maximum

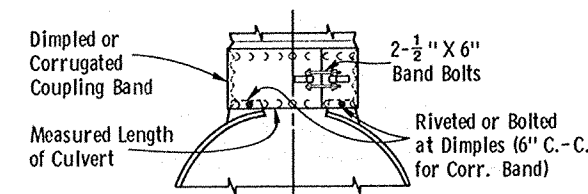
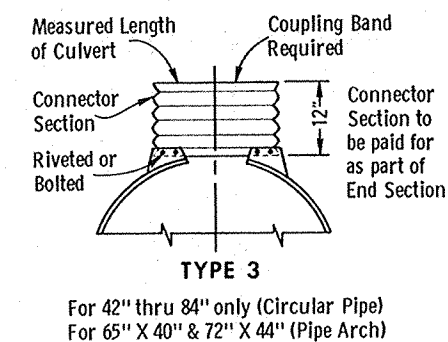
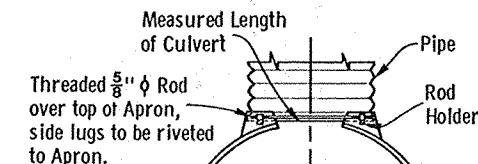
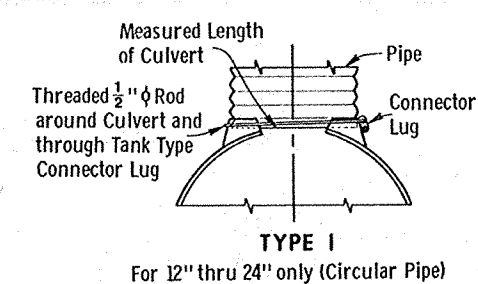
REINFORCED CONCRETE APRON ENDWALLS



D PIPE DIAM.	MIN. METAL GAGE	MIN. ALUM. GAGE	DIMENSIONS					APPROX. SLOPE
			A ± 1"	B MAX.	H ± 1"	L ± 1 1/2"	W ± 2"	
12"	16	16	6"	6"	6"	21"	24"	2 1/2 to 1
15"	16	16	7"	8"	6"	26"	30"	"
18"	16	16	8"	10"	6"	31"	36"	"
21"	16	16	9"	12"	6"	36"	42"	"
24"	16	14	10"	13"	6"	41"	48"	"
30"	14	14	12"	16"	8"	51"	60"	"
36"	14	12	14"	19"	9"	60"	72"	"
42"	12	12	16"	22"	11"	69"	84"	"
48"	12	12	18"	27"	12"	78"	90"	2 1/4 to 1
54"	12	12	18"	30"	12"	84"	102"	2 to 1
60"	10	8	18"	33"	12"	87"	114"	1 3/4 to 1
66"	10	8	18"	36"	12"	87"	120"	1 1/2 to 1
72"	10	8	18"	39"	12"	87"	126"	1 1/3 to 1
78"	8	NA	18"	42"	12"	87"	132"	1 1/4 to 1
84"	8	NA	18"	45"	12"	87"	138"	1 1/6 to 1

NOTE: All splices to be lap riveted or bolted

METAL OR ALUMINUM APRON ENDWALLS FOR CIRCULAR PIPES



NOTE: Dimpled Band fits over Outside of Endwall, and Corr. Band fits Inside Endwall. Dimpled Band may be used with Helically Corrugated Pipe

CONNECTION DETAILS

CIRCULAR PIPE

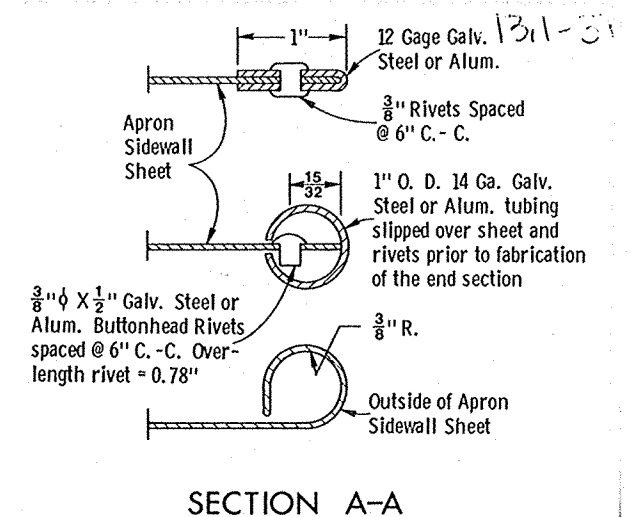
For Circumferentially Corrugated Pipe use Endwall Connection Details 1, 2, 3, or 5 as applicable.

For Helically Corrugated Pipe use Endwall Connection Details 1, 2 or 5.

For Helically Corrugated Pipes with two Circumferential Corrugations at each end use Endwall Connection Details 1, 2, or 3

PIPE ARCH

Use Endwall Connection Details 2, 3, or 5 as applicable.



GENERAL NOTES

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

Variations of the dimensions and designs shown hereon will be permitted providing equivalent capacity and structural integrity are attained, and prior approval of the Engineer is obtained.

Concrete culvert endwalls may not be used with metal or aluminum culvert pipe, nor may metal or aluminum culvert endwalls be used with concrete culvert pipe.

When two or more pipes or pipe arches with apron endwalls are to be laid adjacent to each other, they shall be separated by the following amount:

Pipes: Total width of apron endwall less the diameter of pipe plus 6 inches.

Pipe Arches: Total width of apron endwall less the span dimension of the pipe arch plus 6 inches.

APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

State of Wisconsin
Department of Transportation
Division of Highways

RECOMMENDED FOR APPROVAL:

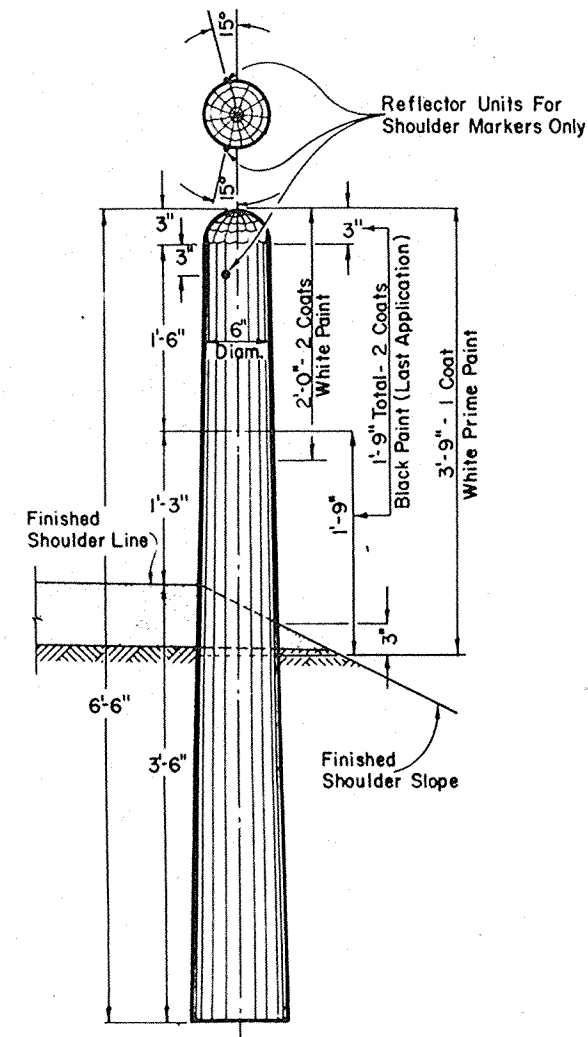
5/13/71
DATE

APPROVED:

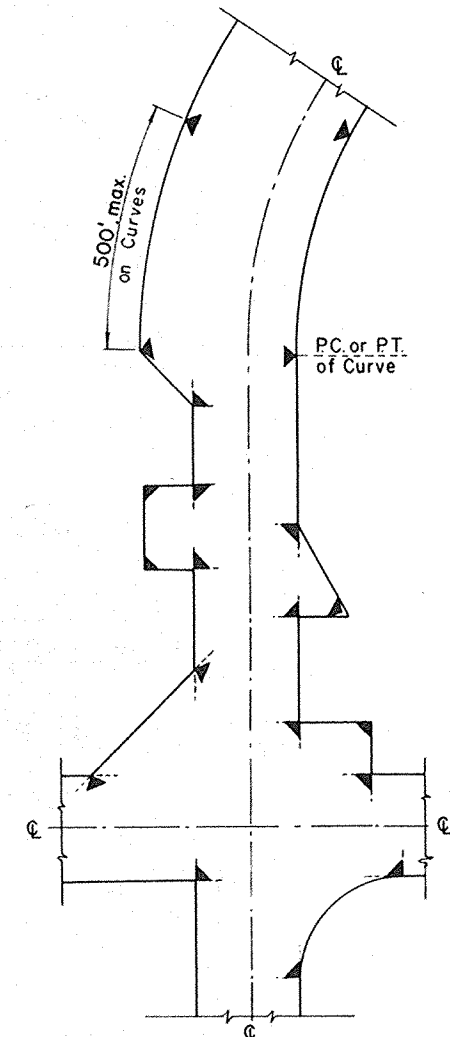
5/13/71
DATE

L. C. Skerried
ACTING CHIEF DESIGN ENGINEER

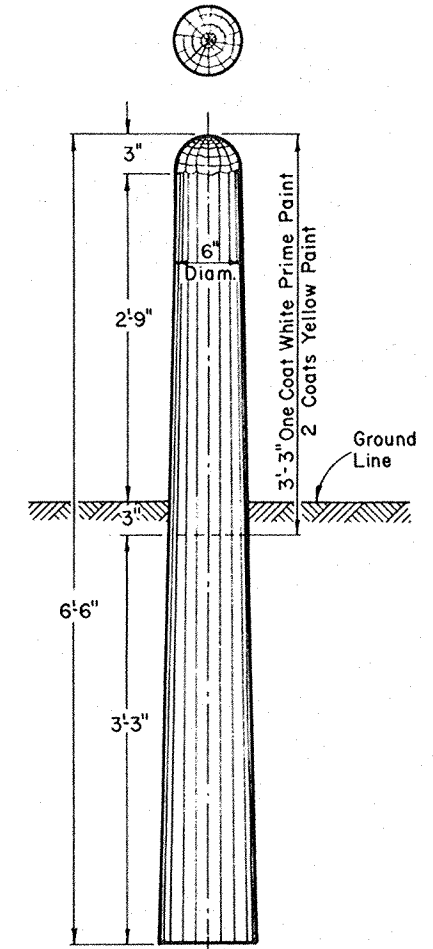
H. J. Summister
STATE HIGHWAY ENGINEER



MARKER POST FOR
ROAD SHOULDERS

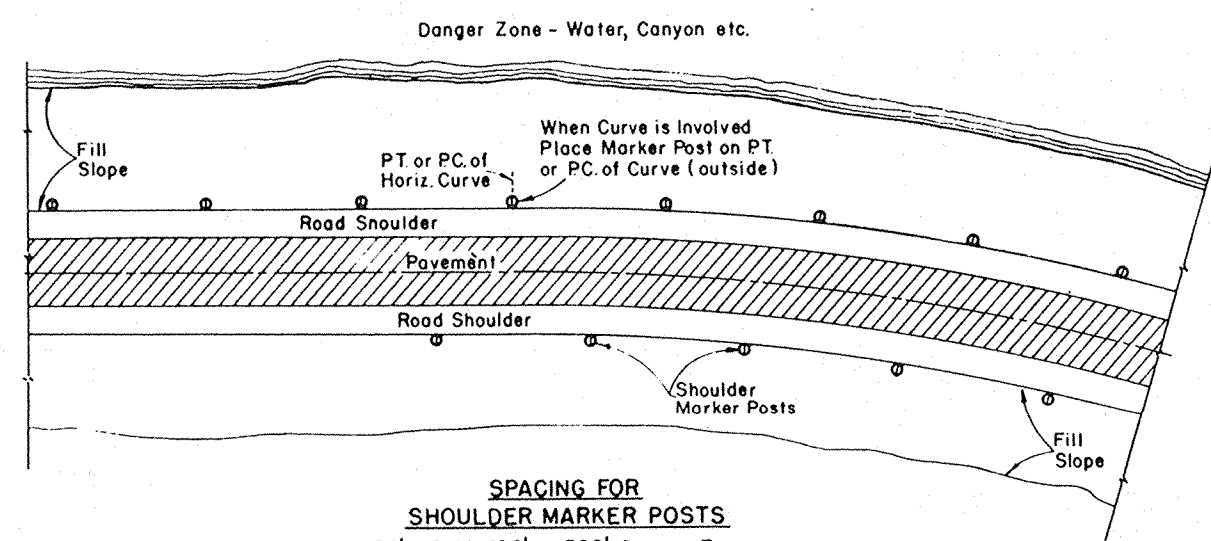


LOCATION DIAGRAM
SHOWING TYPICAL LOCATIONS OF
MARKER POSTS FOR RIGHT OF WAY



MARKER
POST
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

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.

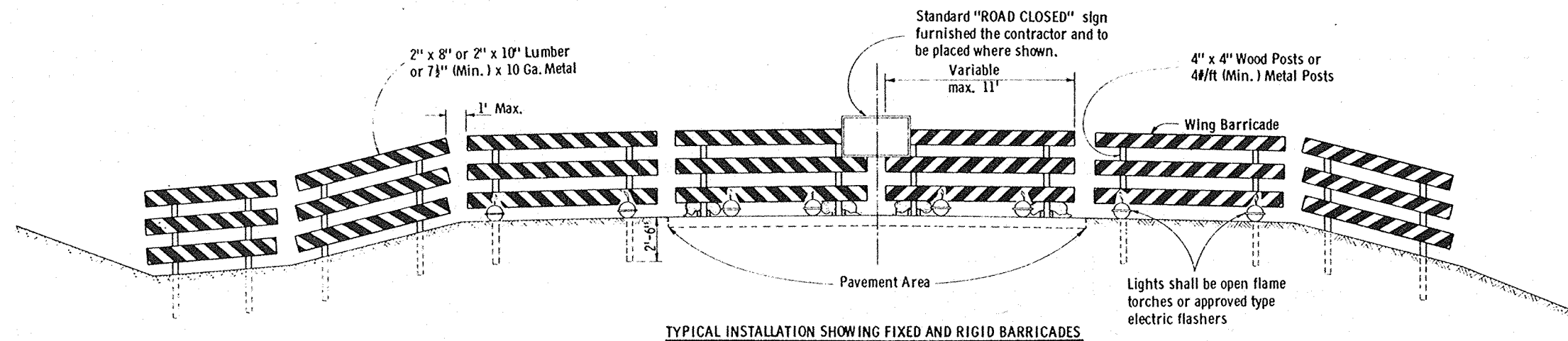
MARKER POSTS FOR RIGHT OF WAY

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.

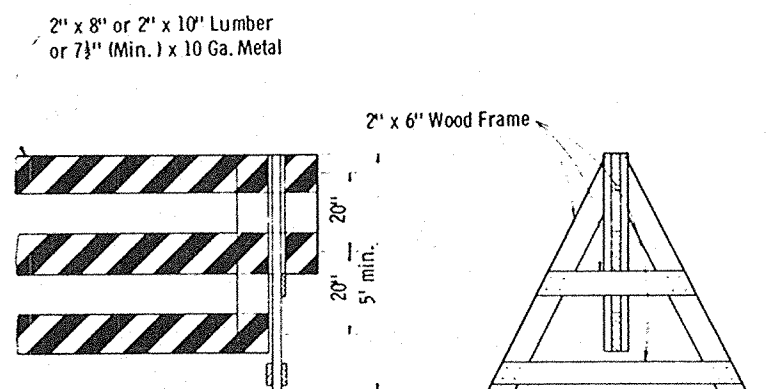
REFLECTOR UNITS

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	DESIGN ENGINEER E. J. Byrkit
APPROVED DATE 7/9/66	STATE HIGHWAY ENGINEER H. J. Lomax
Plate No. 7-1.3.5	

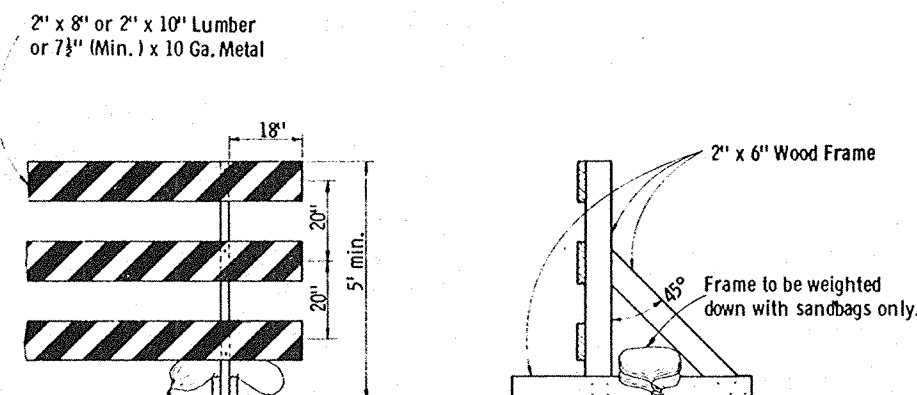


TYPICAL INSTALLATION SHOWING FIXED AND RIGID BARRICADES

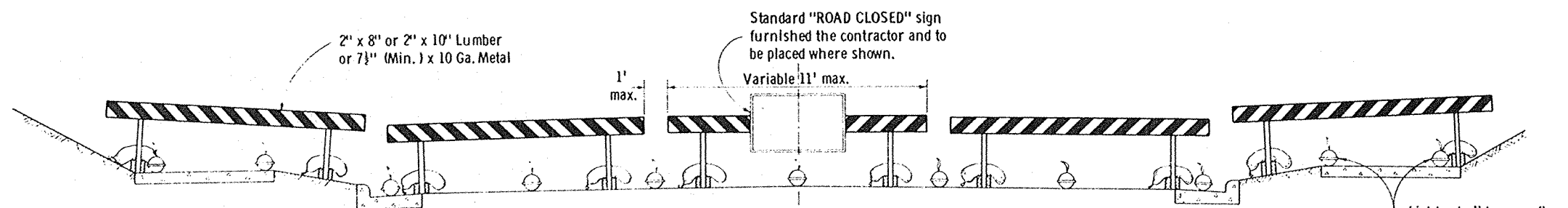


ALTERNATE TYPE INSTALLATION (DEMOUNTABLE)

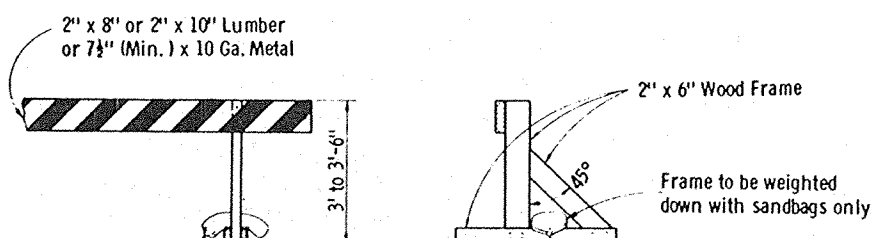
CLASS I BARRICADES



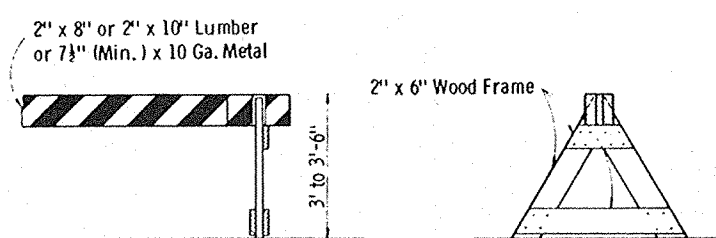
ALTERNATE TYPE INSTALLATION (RIGID)



TYPICAL INSTALLATION SHOWING RIGID BARRICADES

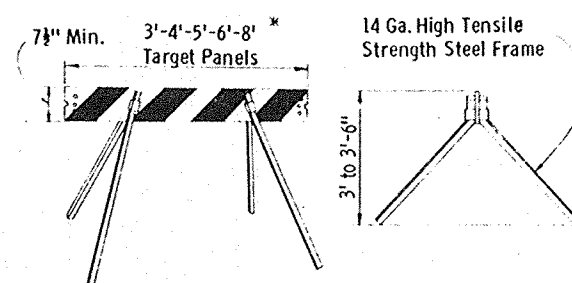


ALTERNATE TYPE INSTALLATION (RIGID)



ALTERNATE TYPE INSTALLATION (DEMOUNTABLE)

CLASS II BARRICADES



* Maximum length of combination panels 16'

ALTERNATE TYPE INSTALLATION (DEMOUNTABLE)

GENERAL NOTES

13.3.39

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.

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 1/1/67

APPROVED

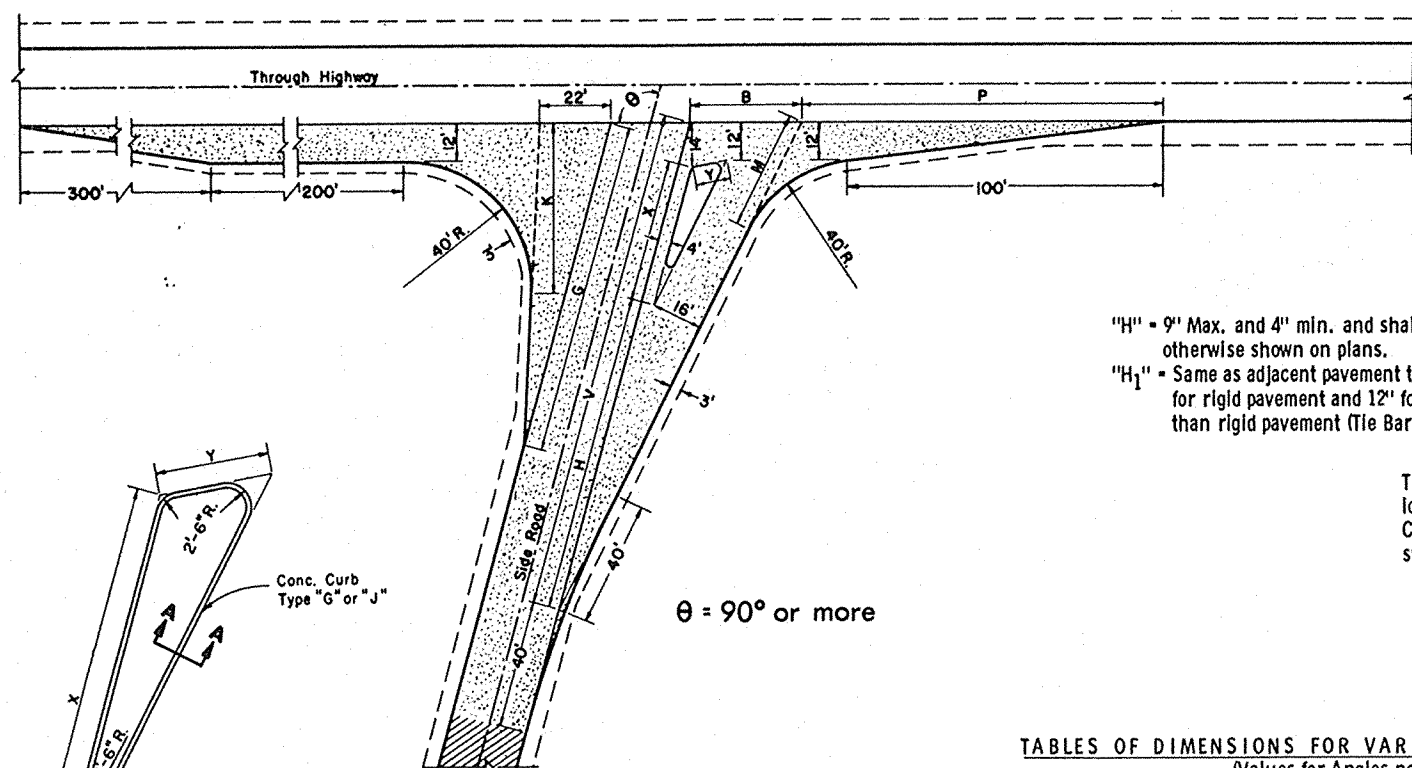
DATE 1/13/67

DATE

Chief Design Engineer

State Highway Engineer

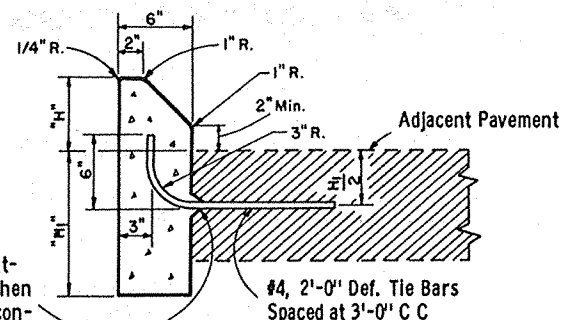
Plate No. 7-4.1.5



$\theta = 90^\circ$ or more

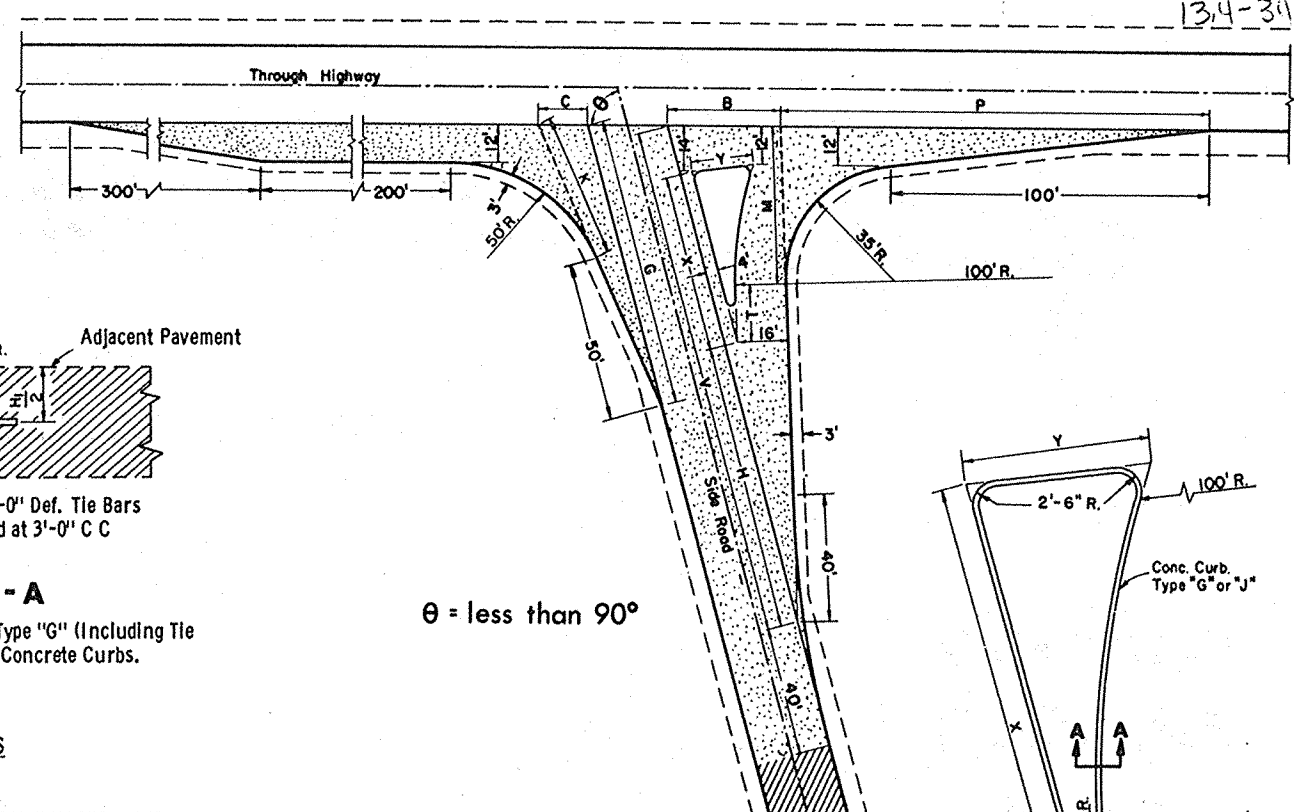
"H" = 9" Max. and 4" min. and shall be 6" unless otherwise shown on plans.
 "H₁" = Same as adjacent pavement thickness for rigid pavement and 12" for other than rigid pavement (Tie Bars Omitted).

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.



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

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

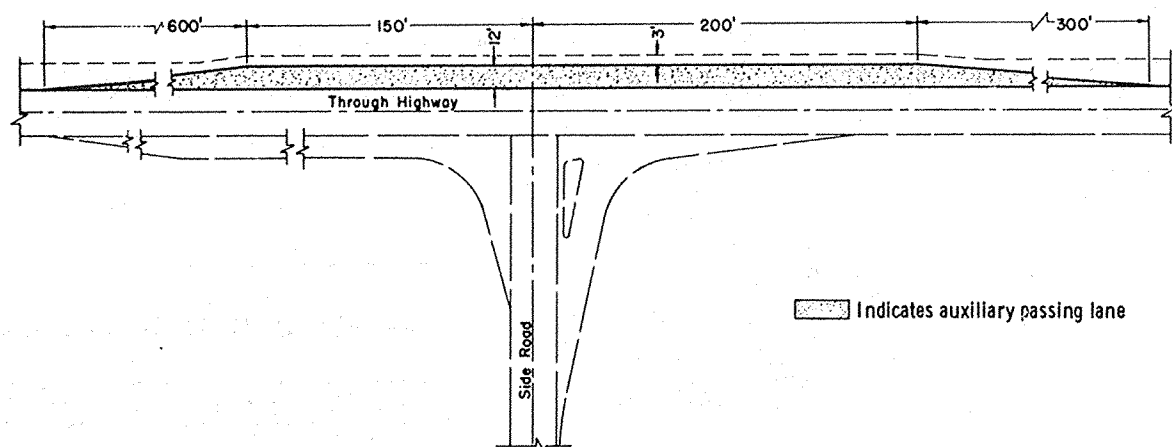
θ	G	K	B	V	H	X	Y	P	M
90	90	43.8	33.9	156.0	94	48.0	11.0	125.0	44.2
95	94	46.7	34.0	156.7	96	47.0	11.0	121.3	41.9
100	98	50.0	34.4	157.4	98	45.9	11.0	117.7	39.7
105	102	53.8	35.2	158.3	100	44.9	11.2	114.2	37.8
110	106	58.2	36.4	159.2	102	43.7	11.4	110.6	36.2
115	110	63.4	38.4	161.8	104	42.6	11.7	107.1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

*Maximum angle of intersection

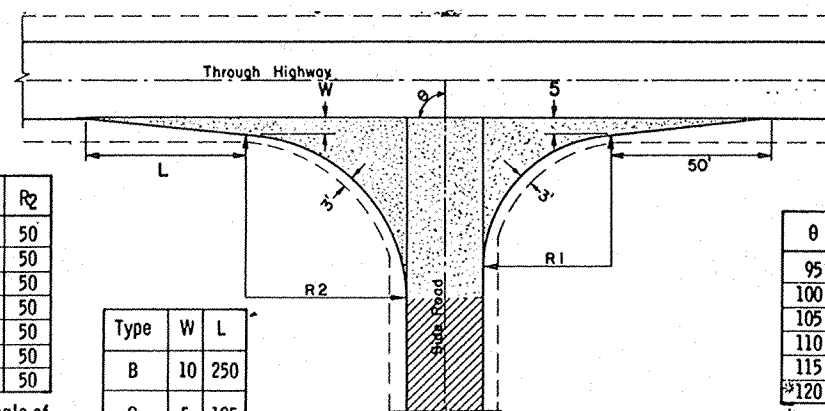
θ	C	G	K	B	V	X	Y	H	P	M	T
*60	19.7	76.3	38.6	41.5	169.9	67.4	29.3	84	144.5	58.8	21.6
65	17.8	82.6	40.6	39.4	166.9	63.6	25.0	86	141.2	54.9	20.7
70	15.8	87.2	43.1	37.4	164.1	59.7	21.9	88	136.8	51.4	19.2
75	15.7	90.9	45.6	35.7	161.4	55.9	19.3	90	132.7	48.2	17.4
80	15.9	94.9	48.3	34.4	158.9	51.9	17.0	92	128.8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



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

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.

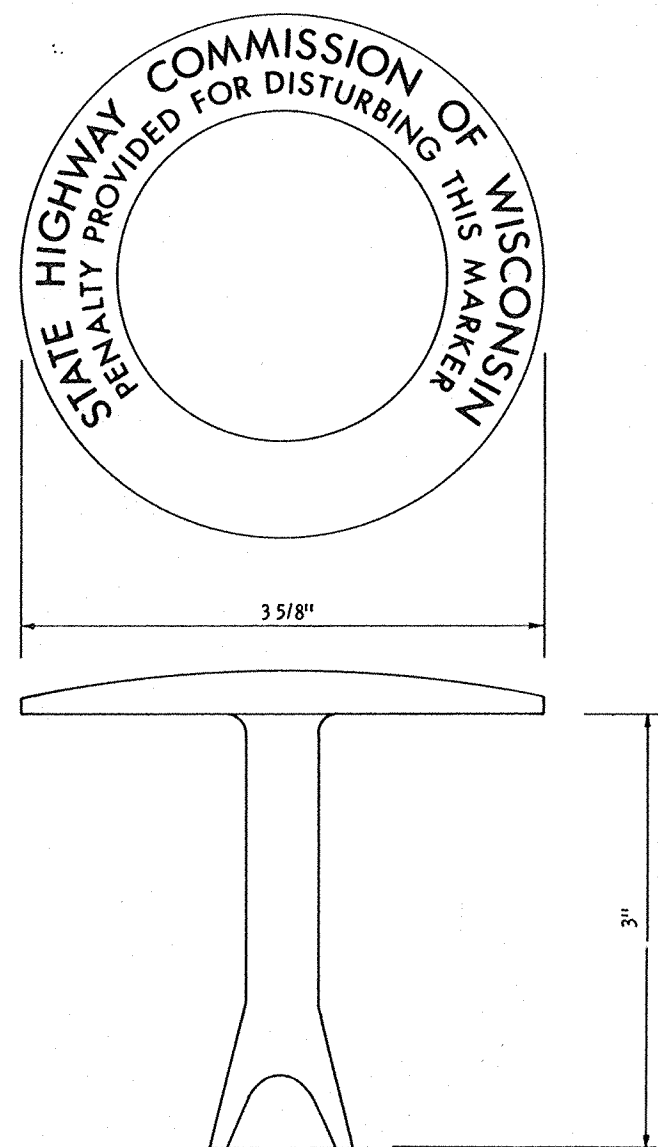
If side road is the construction project, the intersection surfacing shall be the same as for the project.

■ New Pavement
 ■ Existing Surface

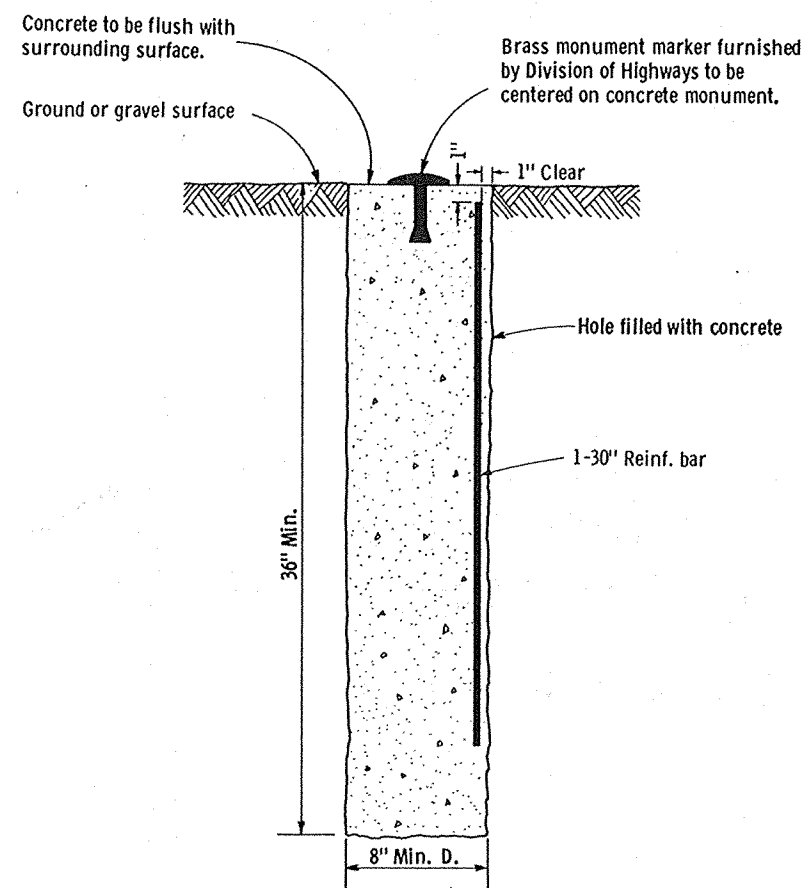
LAYOUT DETAILS FOR AT-GRADE SIDE ROAD INTERSECTIONS

State Highway Commission of Wisconsin

RECOMMENDED FOR APPROVAL:
 DATE 8/9/67
 E. J. Rydzek
 CHIEF DESIGN ENGINEER
 APPROVED:
 DATE 8/9/67
 STATE HIGHWAY ENGINEER

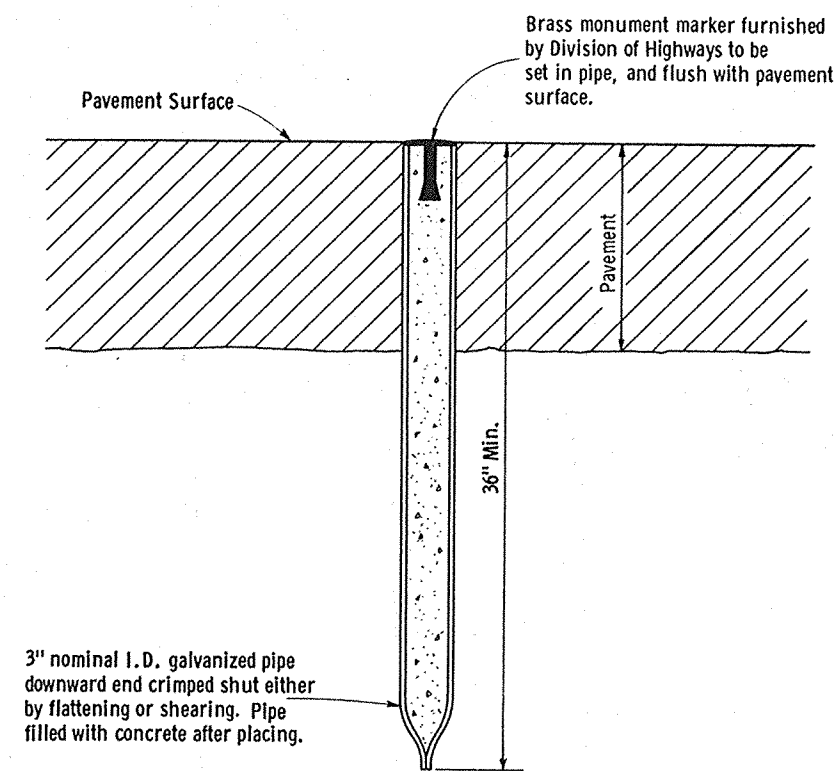


**BRASS
MONUMENT MARKER**
To be furnished to contractor by
Division of Highways



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

E.J. Byrkit
CHIEF DESIGN ENGINEER

APPROVED:

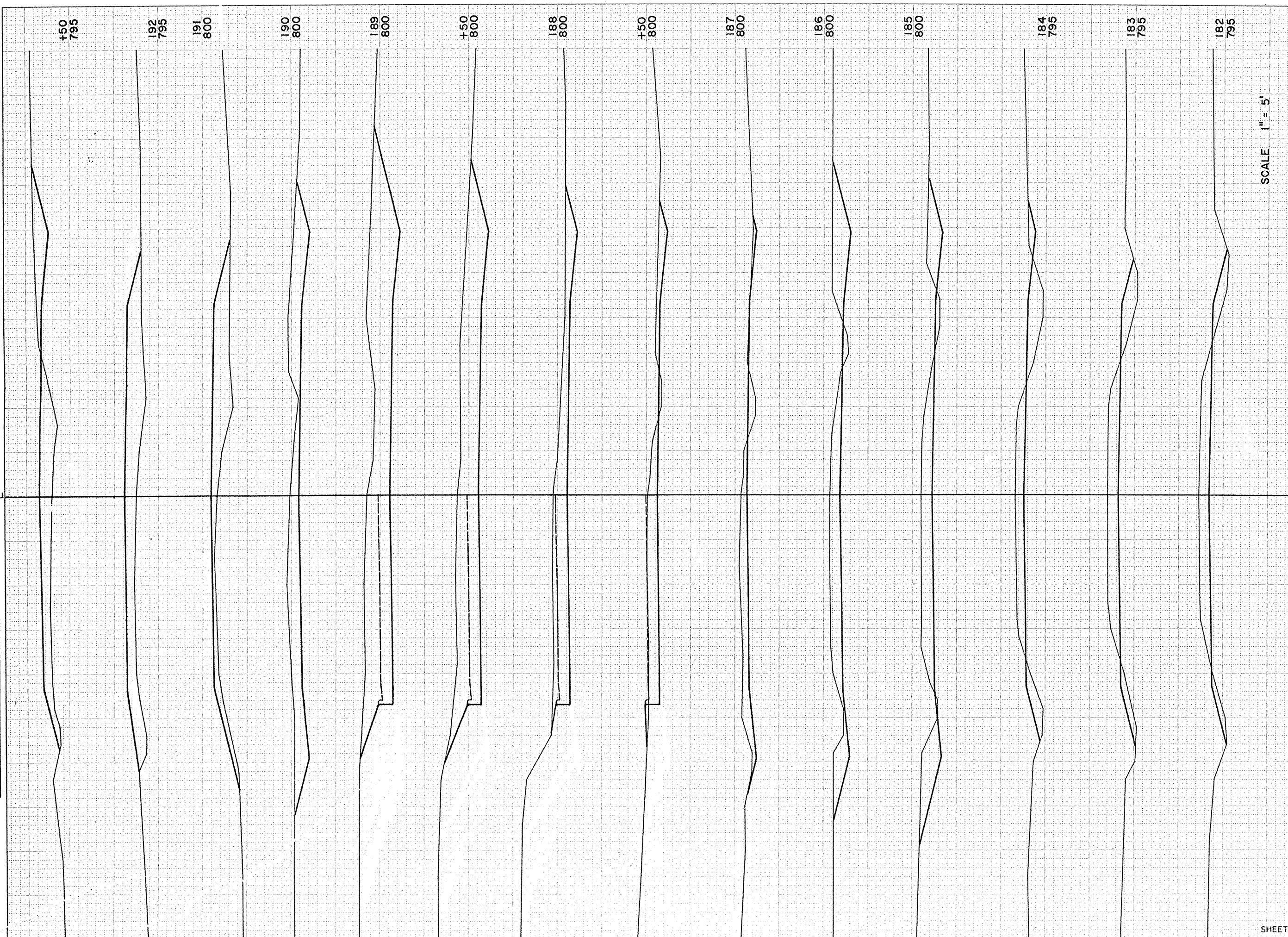
DATE 2/8/68

H. J. Lumsden
STATE HIGHWAY ENGINEER

[illegible]

SURVEY

NO. 871	AREAS	R. G. P.	12-69
	AREAS CHECKED	G. R. R.	1-70



SCALE 1" = 5'

STATION	DISTANCE	YARDAGE				
		UNCL.	EXCAVATION			FILL
181						
+61.65		35			13	
182		148			59	
183		133			80	
184		165			50	
185		246			9	
186		193			13	
187		98			6	
+50		204			2	
188		330				
+50		407				
189		578				
190		154			100	
191					244	
192		17			119	
+50						
NET TOTAL		2,708			695	

STATION	DISTANCE	YARDAGE				
		UNCL.	EXCAVATION			FILL
192						
+50		24			98	
193		13			398	
194					879	
195					1,030	
196					824	
197					643	
198		43			354	
199		43			211	
200		11			106	
+65		63			17	
201		506			4	
202		630				
203		696				
204						
TOTAL		2,029			4,564	

SHEET TOTAL

2,029

4,564

FUNCTIONAL CROSS SECTION - OPEN DOTTED
CHARLES BRUNING COMPANY, INC.

SURVEY		PLOTTED	
NOTE BOOK		TEMPLATE	
		AREAS	
NO.	AREAS CHECKED		

SURVEY

JUN 61	PLOTTED	L.D.W.	6-69
NOTE BOOK	TEMPLATE	R.G.P.	12-69
	AREAS	R.G.P.	12-69
NO. 871	AREAS CHECKED	G.R.R.	1-70

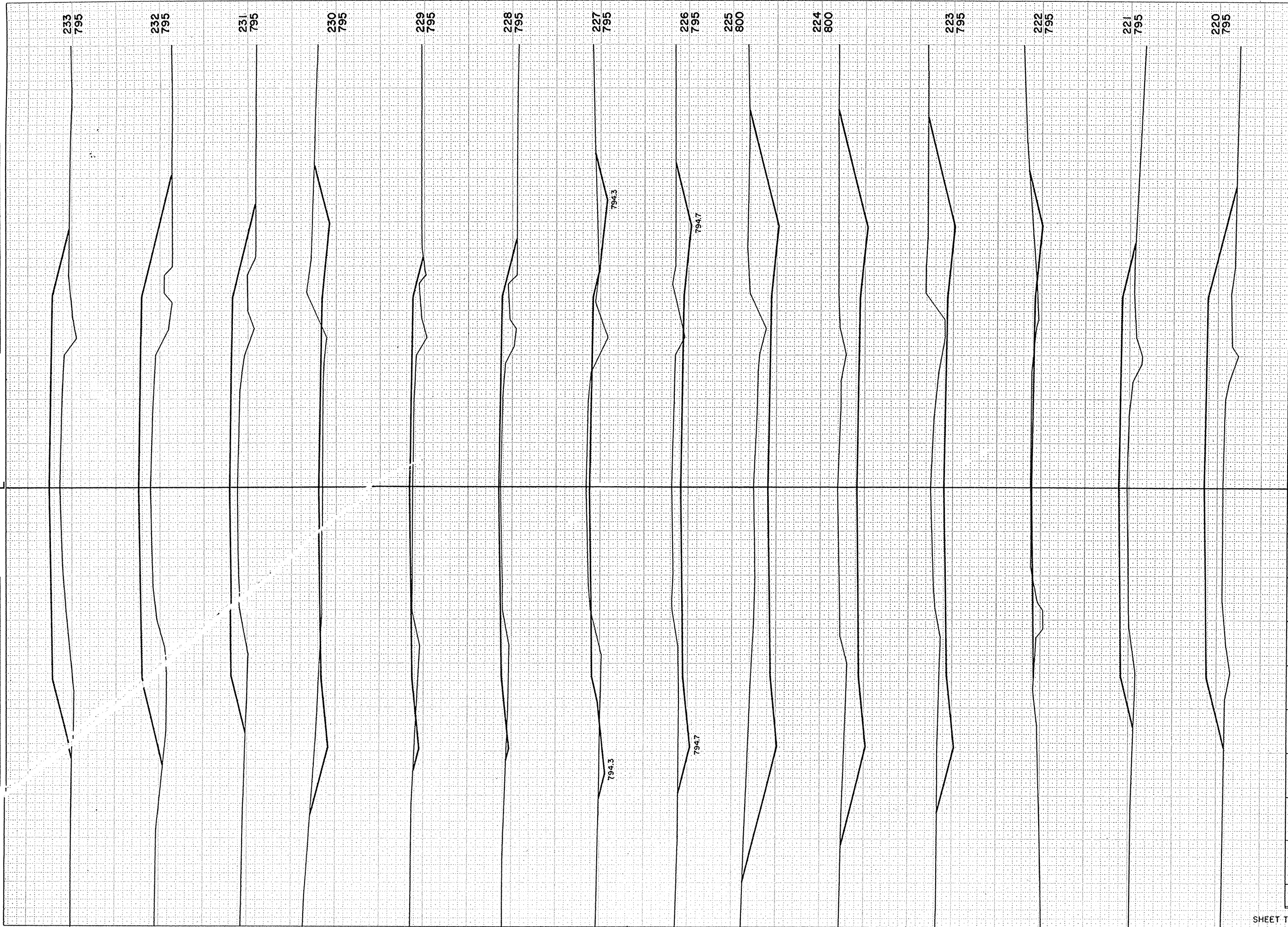
STATION	DISTANCE	YARDAGE				FILL
		EXCAVATION				
		UNCL.				
204						
		857				
205						
		948				
206						
		857				
207						
		676				
208						
		680				
209						
		546				
210						
		274				7
211						
		141				17
212						
		111				17
213						
		87				20
214						
		30				59
215						
						163
216						
						359
217						
						602
218						
						695
219						
SHEET TOTAL		5,207				1,939

B.P.R. REGION	PROJECT	SHEET NUMBER	TOTAL SHEETS
DIVISION			
4	S 0300 (2)	17	34
WIS.			

NOTE BOOK	TEMPERATURE	PLOTTED
NO. 871	AREA CHECKED	

SURVEY

NOTE BOOK	TEMPERATURE	PLOTTED
NO. 871	AREA CHECKED	



STATION	DISTANCE	YARDAGE			
		EXCAVATION			FILL
		UNCL.			
219					567
220					350
221		22			135
222		230			17
223		504			
224		594			
225		424			
226		169			33
227		44			80
228		7			87
229		76			63
230		70			148
231					341
232					381
233					
SHEET TOTAL		2,140			2,202

STATION	DISTANCE	YARDAGE				
		UNCL.	EXCAVATION			FILL
244 +40						
245		115			28	
246		69			109	
247		11			182	
248		7			144	
249		87			61	
250		94			61	
251		13			144	
252		4			185	
253		7			128	
+90		43			43	
254 +12		11			9	
255		7			78	
256					176	
257					267	
258					394	
TOTAL		468			2,00	

SHEET TOTAL

FUNCTIONAL CROSS SECTION - OPEN DOTTED
CHARLES BRUNING COMPANY, INC.

SURVEY NOTE BOOK	PLOTTED	
	TEMPLATE	
	AREAS	
	AREAS CHECKED	

SURVEY

NOTE BOOK	PLOTTED	L.W.W.	1-70
871	TEMPLATE	R.G.P.	12-69
	AREAS	R.G.P.	12-69
	AREAS, OUTLINES	G.B.B.	1-70

STATION	DISTANCE	YARDAGE		
		EXCAVATION		FILL
		UNCL.		
258				
				393
259				
				376
260				
		22		320
261				
		22		278
262				
				333
263				
				330
264				
				420
265				
				348
266				
		24		119
267				
		83		7
268				
		59		57
269				
				107
270				
				224
271				
				298
272				
TOTAL		210		3,610

STATION	DISTANCE	YARDAGE			
		EXCAVATION			FILL
		UNCL.			
272					
					267
273					
					391
274					
					422
275					
					343
276					
					354
277					
					396
278					
					294
279					
					59
+55					
TOTAL					2,526

SHEET TOTAL						2,526
-------------	--	--	--	--	--	-------

FUNCTIONAL CROSS SECTION - OPEN DOTTED
CHARLES BRUNING COMPANY, INC.

UNFILED	PLOTTED
NOTE BOOK	TEMPLATE
	AREAS
NO.	AREAS CHECKED

SURVEY

[illegible]

STATION	DISTANCE	YARDAGE				
		UNCL.	EXCAVATION			FILL
500						
		211			122	
501						
		191			115	
502						
		137			137	
503						
		109			196	
504						
		82			252	
505						
		124			228	
506						
		146			178	
507						
		78			193	
508						
		132			113	
509						
		224			9	
510						
</						

SHEET TOTAL

1,434

1,543

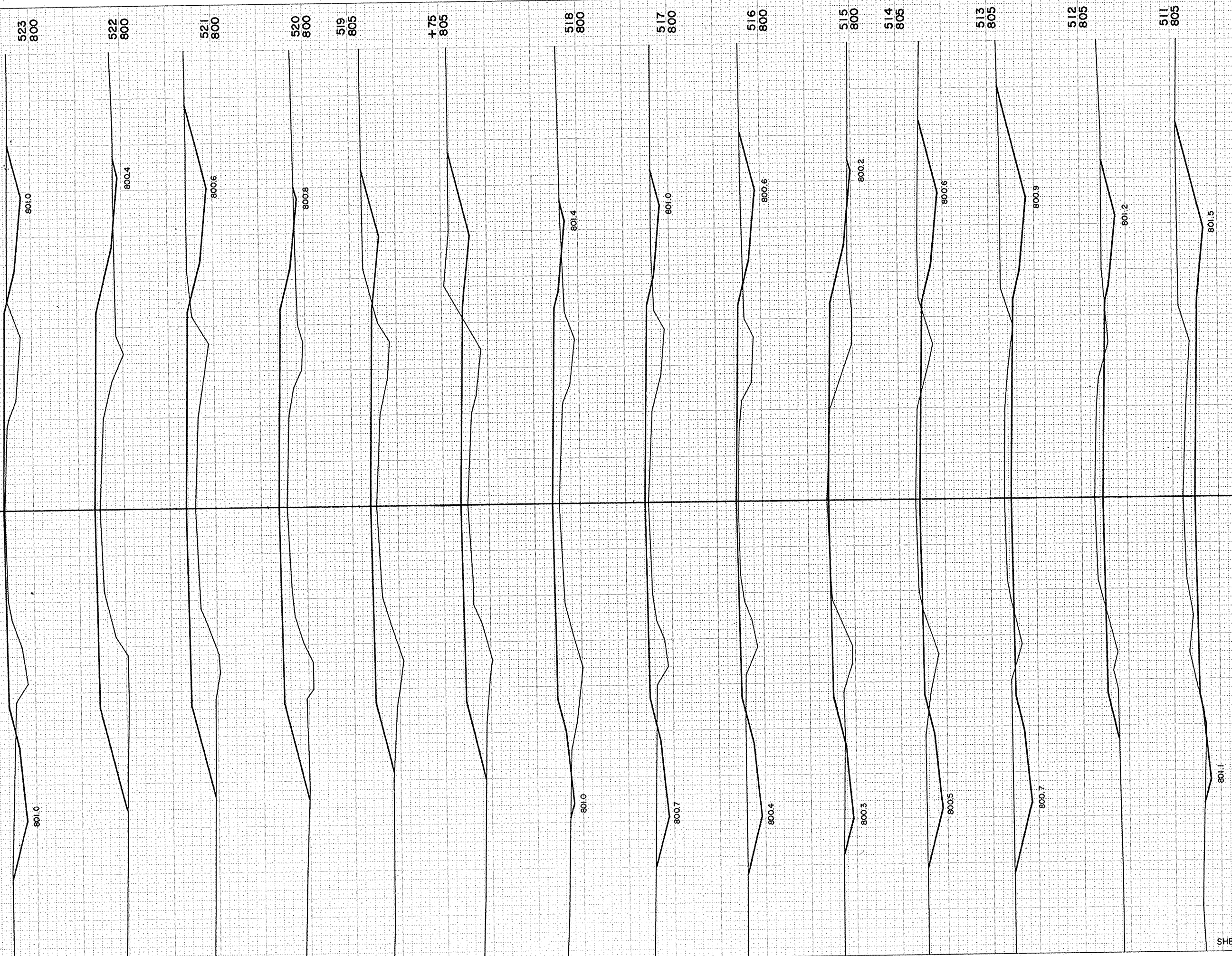
FUNCTIONAL CROSS SECTION - OPEN DOTTED
CHARLES BRUNING COMPANY, INC.

SURVEY

AREAS	B.G.P.	12-69
AREAS CHECKED	B.G.P.	1-70

B.P.R. REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	S 0300 (2)	23	34

STATION	DISTANCE	YARDAGE		
		EXCAVATION		FILL
		UNCL.		
570		278		
511		220		20
512		235		26
513		272		32
514		109		120
515		63		154
516		91		144
517		41		215
518		59		259
+75		80		263
519		30		304
520		57		324
521		59		328
522		57		241
523				
SHEET TOTAL		1,651		2,430



PLUTED
NOTE BOOK
NO. 871
AREAS CHECKED

SURVEY

PLUTED
NOTE BOOK
NO. 871
AREAS CHECKED

STATION	DISTANCE	YARDAGE				
		UNCL.	EXCAVATION			FILL
523						
		87			104	
524						
		89			54	
525						
		178			17	
526						
		433			0	
527						
		644			0	
528						
		635			0	
529						
		441			9	
530						
		57			13	
+28						
		6			6	
+34						
		4			15	
+46						
		2			7	
+52						
		7			91	
531						
		</				

316

NOTE BOOK	TEMPLATE	R. G. P.	2-71
NO. 871	AREAS	R. G. P.	2-71
	AREAS CHECKED	R. G. P.	2-71

NO.	PLUTED
NOTE BOOK	TEMPLATE
	AREAS
NO.	AREAS CHECKED



C.T.H. "F"

BPR REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEET
4 WIS.	S 0300 (2)	25	34

STATION	DISTANCE	YARDAGE				
		UNCL.	EXCAVATION			FILL
531						
		57			394	
532						
		56			319	
533						
		150			54	
+85						
		52			0	
534						
		317			0	
535						
		294			0	
536						
		313			0	
537						
		283			4	
538						
		194			11	
539						
		219			11	
540						
		194			22	
541						
		185			22	
542						

FUNCTIONAL CROSS SECTION - OPEN DOTTED
CHARLES BRUNING COMPANY, INC.

34

34

34

34

34

NOTE BOOK	TEMPLATE	K.G.P.	2-71
NO. 871	AREAS	R.G.P.	2-71
	AREAS CHECKED	R.B.R.	2-71

SURVEY



C.T.H. "F"

BPR REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	S 0300 (2)	27	34

[illegible]

FUNCTIONAL CROSS SECTION - OPEN DOTTED
CHARLES BRUNING COMPANY, INC.

STATION	DISTANCE	YARDAGE				
		UNCL.	EXCAVATION			FILL
7955						
80		6			24	
81		11			39	
82					130	
83		72			154	
50		176			28	
84		215				
85		150			102	
86					243	
87					315	
88					343	
89					317	
90					313	
91					344	
92					343	
AL		630			2,695	

SHEET TOTAL

STATION	DISTANCE	YARDAGE				
		UNCL.	EXCAVATION			FILL
292						
		28			285	
293						
		74			167	
294						
		74			113	
295						
		37			146	
296						
		26			135	
297						
		44			126	
298						
		144			69	
299						
		132			19	
300						
		50			48	
301						
		50			91	
302						
		137			65	
303						
		226			6	
304						
		120			28	
305						
		20			113	
306						
TOTAL		1,162			1,411	

SHEET TOTAL

FUNCTIONAL CROSS SECTION - OPEN DOTTED
CHARLES BRUNING COMPANY, INC.

SURVEY	PLOTTED
NOTE BOOK	TEMPLATE
	AREAS
	AREAS CHECKED
NO.	

NOTE BOOK	PLUM	R.G.P.	12-69
AREAS	AREAS	R.G.P.	12-69
NO. 871	AREAS CHECKED	G.R.R.	1-70

SURVEY

$\frac{31}{34}$

STATION	DISTANCE	YARDAGE				
		UNCL	EXCAVATION			FILL
36						
		4			269	
307					331	
308					443	
309					452	
310						
		280			159	
311		909				
312		1017				
313						
		930				
314		411				
+35		693				
315		667				
316		519				
317		424				
318		124			178	
319					446	
320						
TOTAL		5,978			2,278	

5,978	
-------	--

2,278	
-------	--

FUNCTIONAL CROSS SECTION - OPEN DOTTED
CHARLES BRUNING COMPANY, INC.

STATION	DISTANCE	YARDAGE					
		UNCL.	EXCAVATION				FILL
320							
321						487	
+45		9				122	
		263				30	
322		598					
+45		348					
+75		100					
323		196					
+38		357					
324		169				35	
325						163	
326							

SHEET TOTAL

2,040

837

FUNCTIONAL CROSS SECTION - OPEN DOTTED
CHARLES BRUNING COMPANY, INC.

NOTE BOOK	UNITED	
NO.	TEMPLATE	
	AREAS	
	AREAS CHECKED	

SURVEY

NOTE BOOK	TEMPLATE	R. G. P.	12-69
	AREAS	R. G. P.	12-69
NO. 071	AREAS CHECKED	G. R. R.	1-70

NO. 871	AREAS CHECKED	G. R. R.	1-70
---------	---------------	----------	------

NO. _____
 AREAS CHECKED _____
 DATE _____

FUNCTIONAL CROSS SECTION - OPEN DOTTED
CHARLES BRUNING COMPANY, INC.

BPR REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	S 0873 (3)	33	34

STATION	DISTANCE	YARDAGE				
		JNCL.	EXCAVATION			FILL
335						
+40		317			6	
336		208			139	
337		17			789	
+50		6			504	
338		11			480	
339		20			1,083	
340		13			1,104	
341		35			839	
342		215			426	
343		283			263	
344		159			276	
345		135			219	
346		83			198	
TOTAL		1,502			6,326	

SHEET TOTAL

1,502		6,326
-------	--	-------

FUNCTIONAL CROSS SECTION - OPEN DOTTED
CHARLES BRUNING COMPANY, INC.

NO.	DATE	BY	REVIEWED	APPROVED
AREAS CHECKED				
AREAS				
TEMPLATE				
NOTED				
PLOTTED				
SURVEY				

NOTE BOOK	PLOTTED.....	L. V. P.	D-69
	TEMPLATE.....	R. G. P.	12-69
	AREAS.....	R. G. P.	12-69
NO. 871	AREAS CHECKED.....	G. R. R.	1-70

SURVEY

