STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

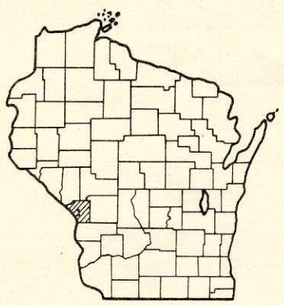
STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
7078-1-71	HHS 08-3(50)	1
7085-1-71	HHS 08-3(51)	1

R 1 - 6/17/75

PLAN AND PROFILE OF PROPOSED

Index of Sheets

TOTAL SHEETS = 14



BRICE PRAIRIE - U.S.H. 53

(JCT. C.T.H. "Z" & U.S.H. 53)

U.S.H. 53

LA CROSSE CO.

STATE PROJECT NUMBER
7078-1-71

MIDWAY - HOLMEN

(JCT. C.T.H. "OT" & U.S.H. 53)

U.S.H. 53

LA CROSSE CO.

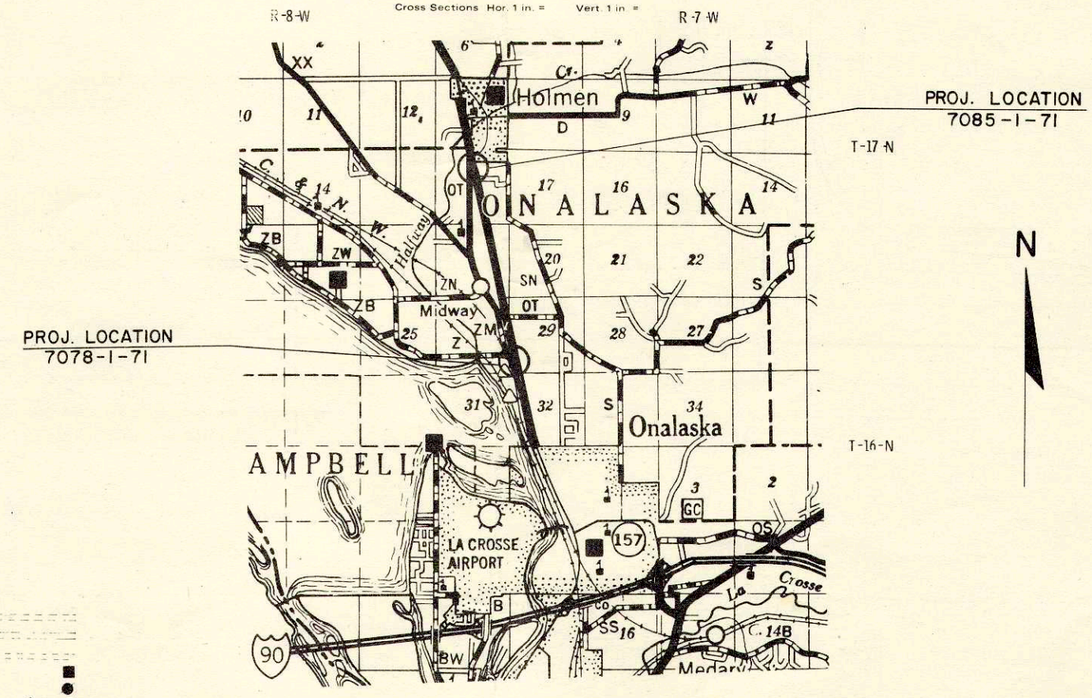
STATE PROJECT NUMBER
7085-1-71

Scales

Plan 1 in. = 100 ft.

Profile Hor. 1 in. = 100 ft. Vert. 1 in. = 10 ft.

Cross Sections Hor. 1 in. = Vert. 1 in. =



Layout

Scale 0 1 mi.

Total Net Length of Centerline = Mi.

Design Designation

		C.T.H. "Z"	C.T.H. "OT"	U.S.H. 53
A.D.T. 1975	=	1800	750	8020
A.D.T. 1990	=	2490	2640	14365
D.H.V.	=	220	240	1290
D.	=	60-40%	60-40%	60-40%
T.	=	5%	1%	10%
V.	=	—	—	50 M.P.H.

Conventional Signs

County Line

Township or Range Line

Section Line

New Right of Way Line

Present Right of Way Line

Wire Fence (type)

Corporate or City Limits

Property Line P.L.

Traveled Way or P.E.

Railroads

Base or Survey Line

Caution Symbol (combustible fluids under pressure) CAUTION

Culverts in Place

Culverts Required

Drop Inlet

Power Pole

Telephone or Telegraph Pole

Right of Way Markers

Reference Stake for Hubs Only +61.7 25.9

Marsh

Hedge

Trees

Ground Elevation Datum Line

Grade Elevation Datum Line

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

Surveyed: B.S.B. District Checker: J.B.G.
Designed: D.B.D. C.O. Checker: R.A.H.

Correct:
Date 4/14/75 L.G. Schmeiser
District Engineer

Recommended for Approval:
DATE 4/29/75 Wayne M. Weller
CHIEF TRAFFIC ENGINEER
Date 4/29/75 L.C. Hanrahan
Chief of Facilities Development

Approved:
Date 4/30/75 A.L. Fiedler
State Highway Engineer

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
REGION 5 WISCONSIN DIVISION

Approved:
Date
Division Engineer

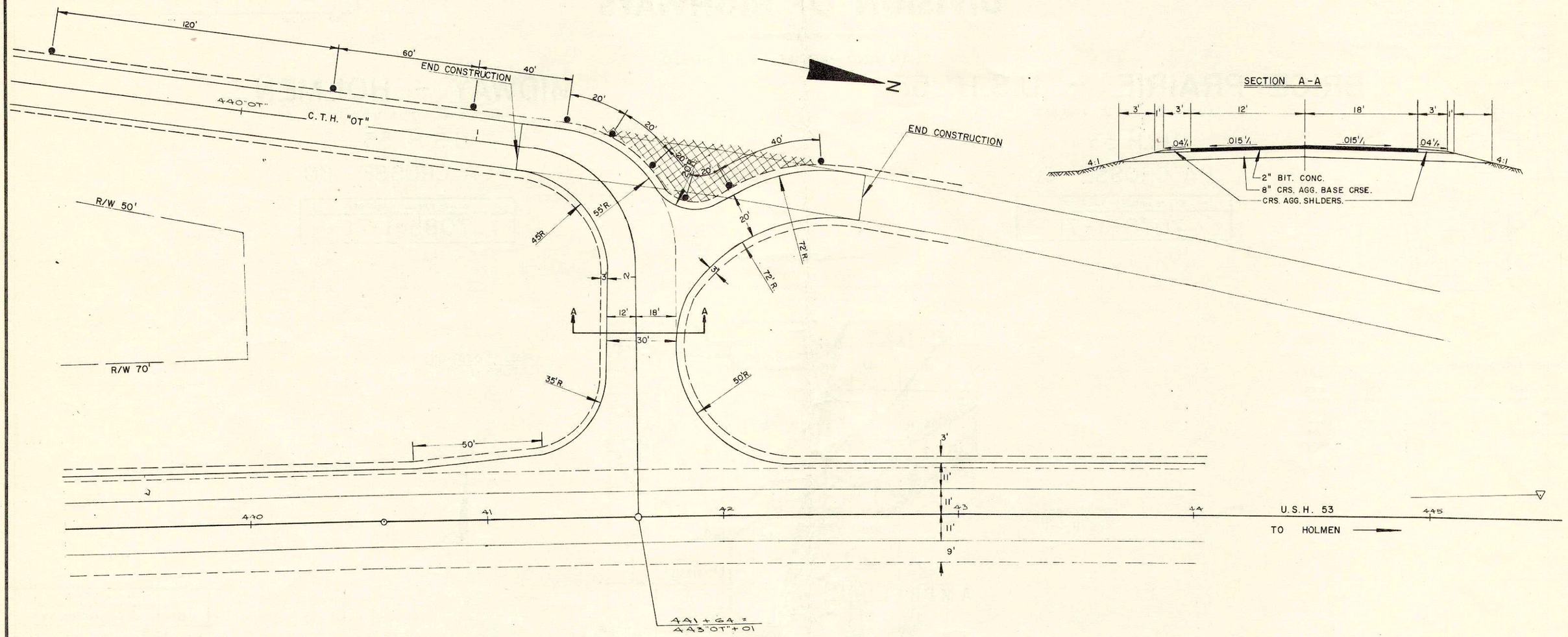
7078-1-71 7085-1-71

PROJECT DESIGNATION	SHEET NO.
7085 - 1 - 71	2

DETAIL DRAWING FOR C.T.H. "OT"

R 1 - 6/17/75

● DENOTES DELINEATOR POSTS AND DELINEATORS



SECTION A-A

UTILITY CO.

TREMP. ELEC. CO.
ARCADIA , WISC.
REP: GAY HESS
PH: 323-3381

LA CROSSE TELE. CO.
205 5th. AVE. S.
LA CROSSE , WISC.
REP: G. GRAHAM
PH: 782 - 9951

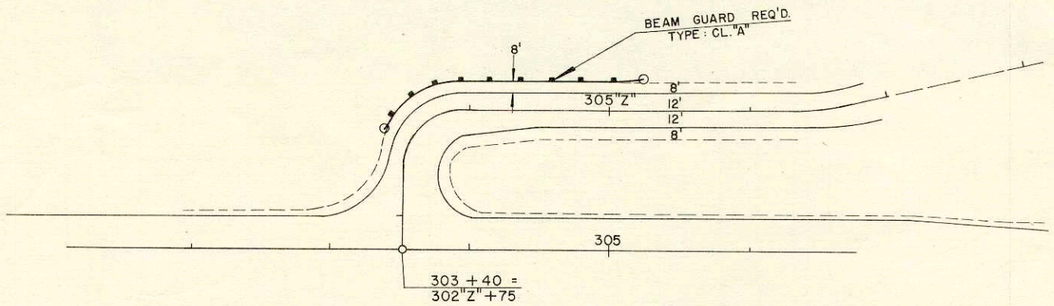
ESTIMATE OF QUANTITIES

CONTRACT NO. 1
GRADING, BASE & BIT. CONC.

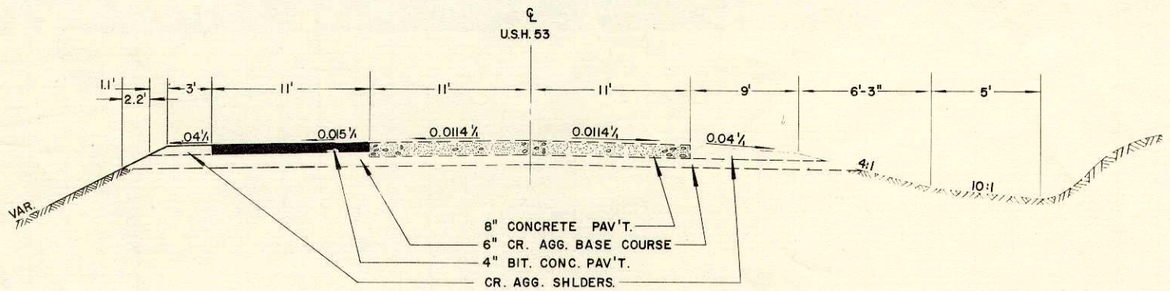
PROJECT DESIGNATION	SHEET NO
7078-1-71 & 7085-1-71	3

R 1 - 6/17/75

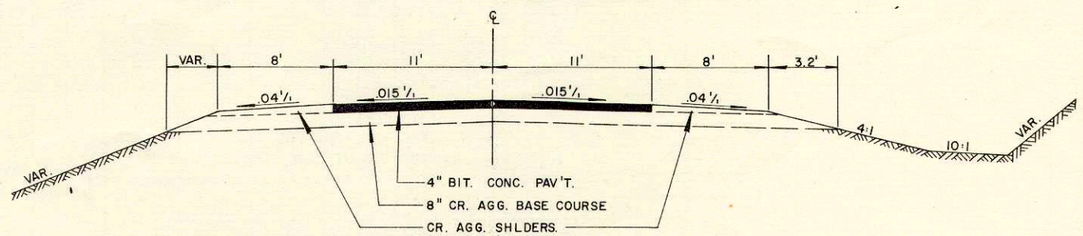
STATION TO STATION	NET LENGTH OF CENTER LINE	CLEARING	GRUBBING	UNCLASSIFIED EXCAVATION	BORROW EXCAVATION			OBLITERATING OLD ROAD	CRUSHED AGGREGATE BASE COURSE	BITUMINOUS CONCRETE PAVEMENT	BITUMINOUS MATERIAL FOR SURFACE COURSE	DELINEATOR POSTS	DELINEATORS	ANCHORAGES FOR STEEL PLATE BEAM GUARD	STEEL PLATE BEAM GUARD CLASS "A"	SALVAGED TOPSOIL	MULCHING	FERTILIZER	SEEDING	SODDING	HEAVY RIPRAP	FIELD OFFICE TYPE "A"	
ITEM NO		20101	20104	20503	20801			21401	30403	40701	40702	63301	63305	61406	61408	62505	62702	62901	63002	63101	60602	64201	
UNIT	LIN FT	STA	STA	C.Y.	C.Y.			STA	C.Y.	TON	TON	EACH	EACH	EACH	L.F.	SQ.YD.	SQ.YD.	CWT.	LB.	SQ.YD.	C.Y.	L.S.	
PROJECT I.D.																							
32-5 "Z" 7078-1-71		2	2	1710	6010				1240	580	35	9	18	2	150	5000	6500	23	120	250	350	1	
32-6 "OT" 7085-1-71				2750				7	280	810	50					2100		3	80				
		2	2	4460	6010			7	1520	1390	85	9	18	2	150	7100	6500	26	200	250	350	1	



BEAM GUARD DETAIL
C.T.H. "Z"



TYPICAL SECTION
(U.S.H. 53)



TYPICAL SECTION
(C.T.H. "Z")

STANDARD DETAIL DRAWINGS

14B2 -3a & 3b	Steel Plate Beam Guard, Class A
15C1 -3	Construction Barricade
15A2 -1	Delineator Posts and Delineators

GENERAL NOTES

No trees are to be removed without the approval of the engineer.

When the quantity of the items of base course is measured for payment by the ton or cubic yard, the depth or thickness of the course shown on the plan is approximate and the actual thickness of the course depend on the distribution of the materials as directed by the engineer.

Salvaged topsoil shall be placed to an approximate depth of 3 inches at the time of placing on all slopes 2:1 or flatter.

All slopes 4:1 and steeper shall be covered with mulch unless otherwise directed by the engineer.

All areas of the right of way exclusive of the roadbed, riprap and areas already covered with suitable grasses shall be fertilized and seeded as directed by the engineer.

4-inch bituminous concrete pavement shall be constructed with a 1 1/4-inch surface course and 2 binder courses.

Exact location of access points shall be determined by the engineer in the field.

STATE PROJECT NUMBER	SHEET NO.
7078-1-71	5
U.S.H. 53 & C.T.H. "Z" INTERSECTION	
ALT. "B"	

SCALE: 1" = 96'

H. RIPRAP

8'
305"Z"
12'
12'
8'
8'
6'
3'
300'
200' TAPER
3'
300'
TO ONALASKA
300
305
310
200' TAPER
303+40 = 302"Z"+75
SUBDIVISION
TO HOLMEN

UTILITY CO.
LA CROSSE TELE. CO.
205 5th. AVE. S.
LA CROSSE, WISC.
REP. G. GRAHAM
PH. 782-9951

℄ U.S.H. 53

PROPOSED PROFILE C.T.H. "Z"

710.0
707.0
700.5
+75
303"Z"
4
305"Z
6
307"Z"
8

-0.7%
EXISTING U.S.H. 53
+0.4%
4.4%
EXISTING C.T.H. "Z"
691.6
684.1
675.8

STA. 298 – 309 +00
UNCL. = 1710 C.Y.
FILL = 9830 C.Y. (7560 C.Y @ 30% SHR.)
2110 C.Y. TO BE OBTAINED FROM PROJ. I.D. 7085-1-71
BORROW = 6010 C.Y.

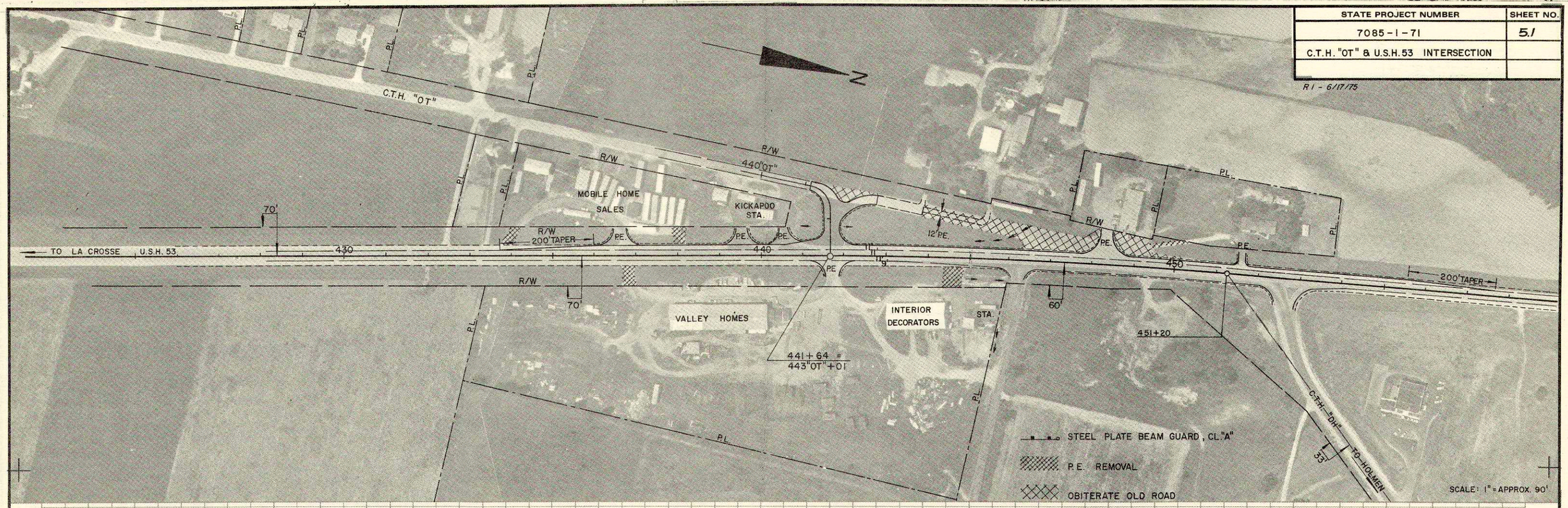
712.50 712.11 711.84 711.70 711.72 711.86 712.11 712.56 712.92 713.36 713.78 714.20 714.64 715.05 715.41 715.87 716.29

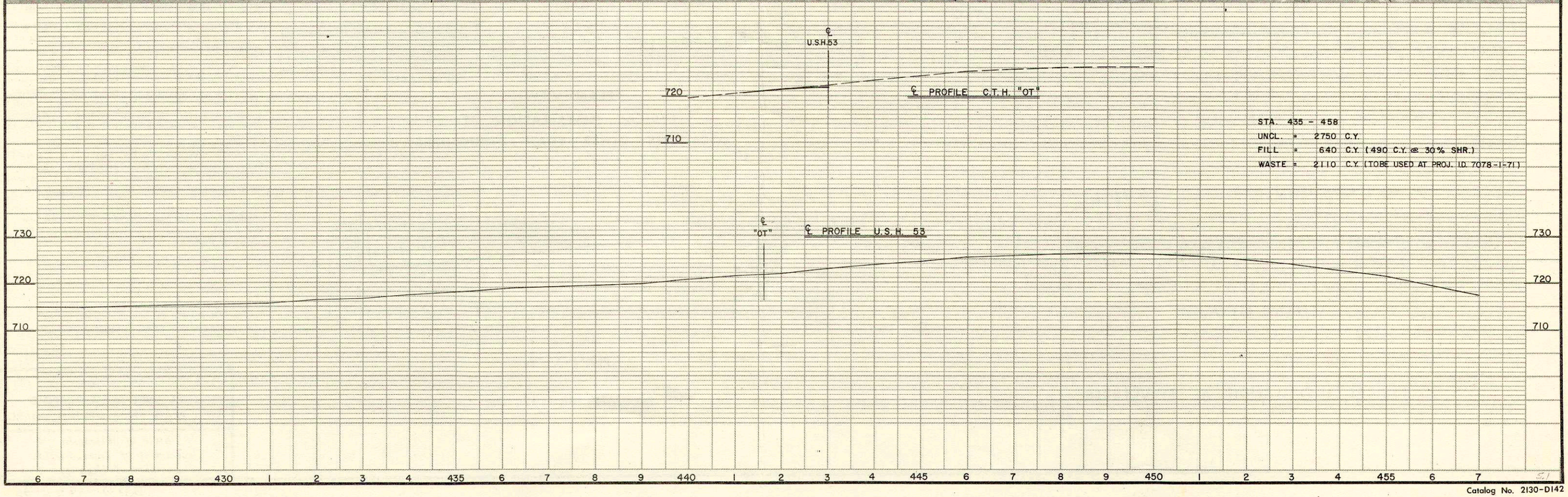
720 710 700 690 680 670

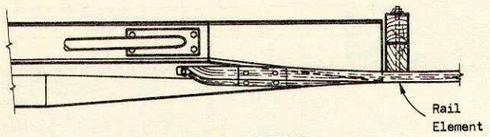
7 8 9 300 1 2 3 4 305 6 7 8 9 310 11 12 13

STATE PROJECT NUMBER	SHEET NO.
7085-1-71	5.1
C.T.H. "OT" & U.S.H. 53 INTERSECTION	

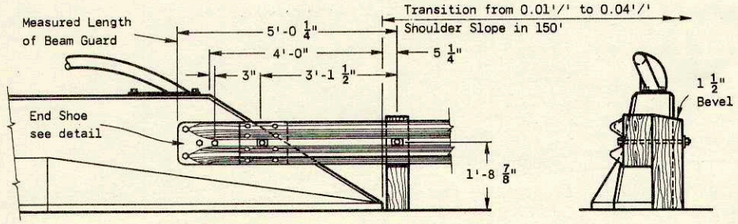
R1 - 6/17/75







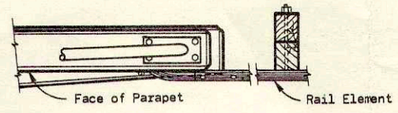
PLAN VIEW



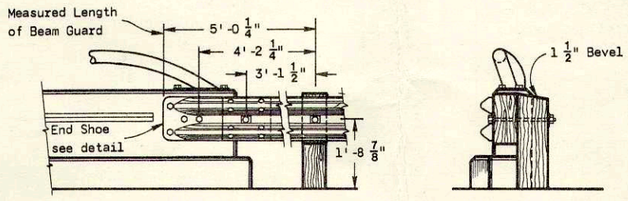
FRONT ELEVATION END ELEVATION

STRUCTURE MOUNTING DETAIL

SLOPING TYPE PARAPET WALL



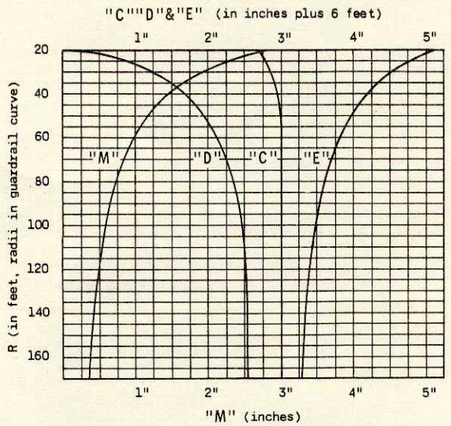
PLAN VIEW

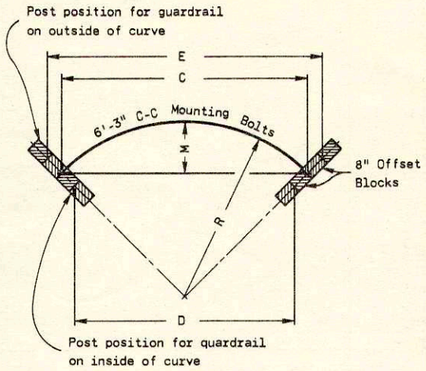


FRONT ELEVATION END ELEVATION

STRUCTURE MOUNTING DETAIL

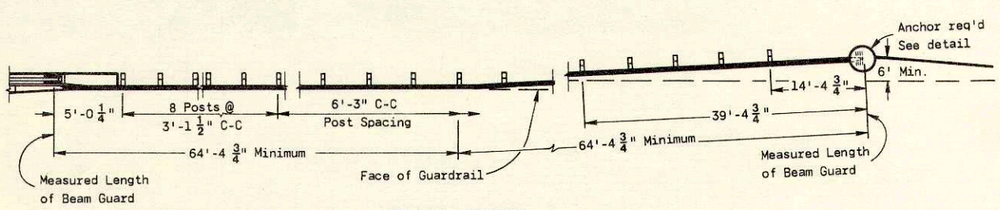
VERTICAL TYPE PAPAPET WALL



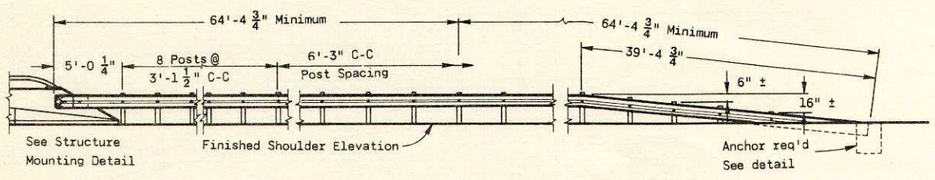


CHORD LENGTHS FOR POST SPACING AND MIDDLE ORDINATES FOR BEAM CURVING

CURVE DATA FOR POST SPACING AND BEAM CURVING

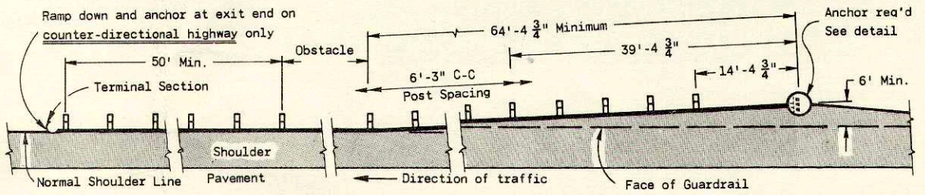


PLAN VIEW



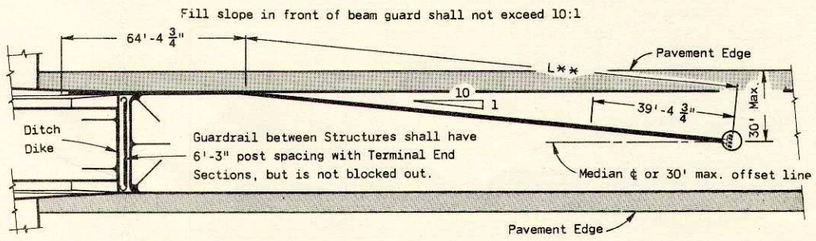
FRONT ELEVATION

TYPICAL INSTALLATION AT STRUCTURES



PLAN VIEW

TYPICAL INSTALLATION AT LOCATIONS OTHER THAN STRUCTURES



** Variable based on Median width or 30' max. offset

PLAN VIEW

MEDIAN PROTECTION

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.

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.

Square anchor alternates will be permitted. Square anchors shall be a minimum of 24 inches x 24 inches.

The shoulder widening to accommodate the anchored end of the guardrail shall be accomplished at the rate of widening not to exceed 15 to 1.

Upon approval of the Engineer, the 6 foot anchor offset may be reduced to nothing for replacement installations where existing conditions will not permit the desirable offset. However, when no offset greater than or equal to 3 feet can be provided, the minimum length of guardrail in advance of an obstacle (obstacle to anchor) shall be 150 feet.

The minimum clearance from the front face of guardrail to obstacle shall be 3 feet unless otherwise shown on contract plans. When clearance is less than 3 feet post spacing shall be reduced to 3 feet - 1 1/2 inches C.C.

The "Post Footing Details At Piers" shall be used when guardrail posts are over structure footings and less than 3 feet - 6 inches of earth is provided over the top of the footing.

NOTE:
THIS STANDARD DETAIL DRAWING CONSISTS OF TWO PLATES. AND BOTH PLATES ARE REQUIRED WHEN THIS STANDARD IS CALLED FOR IN THE PLANS.

CLASS "A"
STEEL PLATE BEAM GUARD &
STEEL PLATE BEAM MEDIAN GUARD

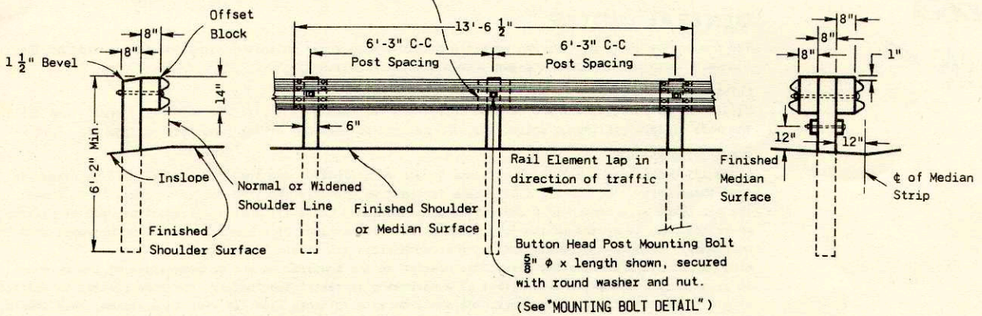
State of Wisconsin
Department of Transportation
Division of Highways

S.D.D. 14 B 2-3a

S.D.D. 14 B 2-3a

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

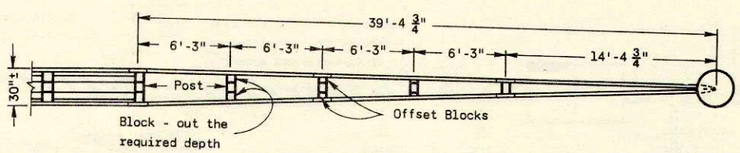
Sawed and treated timber posts and offset blocks shall be furnished and placed in accordance with Standard Specifacations. Posts shall be 6" x 8" x 6'-6" and have 6" x 8" x 14" offset blocks.



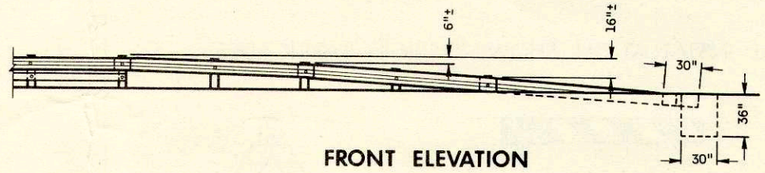
END ELEVATION — FRONT ELEVATION — END ELEVATION

STEEL PLATE BEAM GUARD — **STEEL PLATE BEAM MEDIAN GUARD**

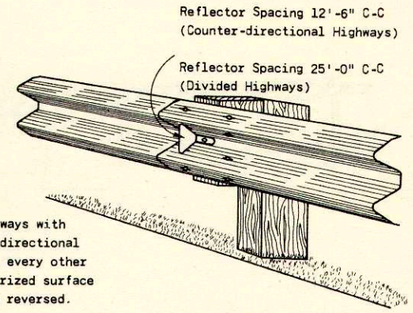
STEEL PLATE BEAM GUARD OR STEEL PLATE BEAM MEDIAN GUARD



PLAN VIEW



FRONT ELEVATION

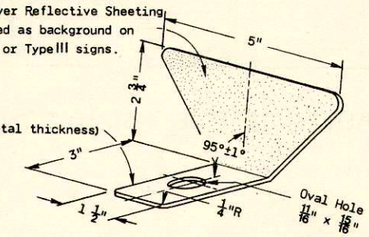


NOTE:
For highways with counter-directional traffic, every other reflectorized surface shall be reversed.

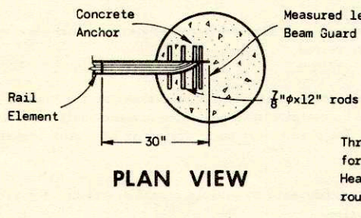
TYPICAL INSTALLATION

ANCHOR DETAIL FOR DOUBLE RAIL ELEMENT INSTALLATION

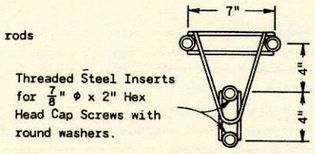
The reflectorized surface shall consist of Silver Reflective Sheeting of the type used as background on TypeI, TypeII, or TypeIII signs.



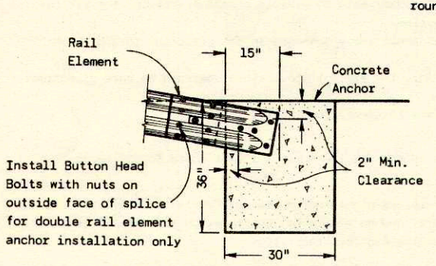
REFLECTOR DETAIL



PLAN VIEW



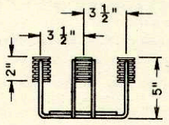
PLAN VIEW



SECTION VIEW

ANCHOR DETAIL

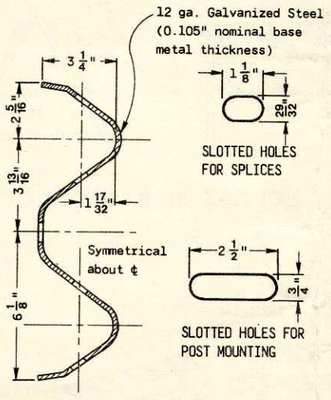
SINGLE RAIL ELEMENT INSTALLATION



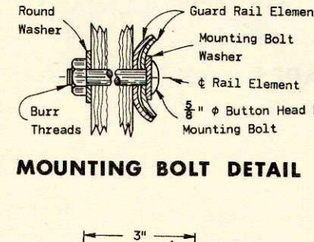
ELEVATION

4 BOLT INSERT ASSEMBLY

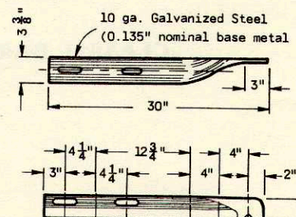
NOTE: Installation of 4 Bolt Insert Assembly (with Cap Screws inserted) to be part of Bridge Contract.



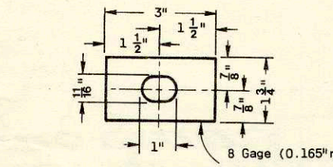
SECTION THRU RAIL ELEMENT



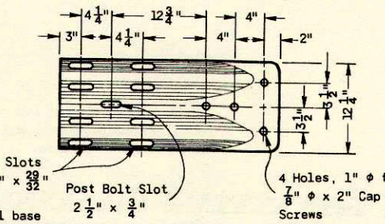
MOUNTING BOLT DETAIL



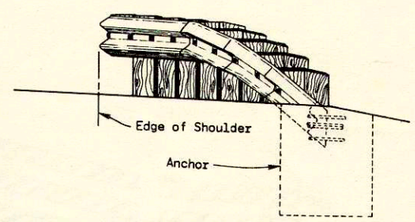
Galvanized Steel (0.089" nominal base metal thickness)



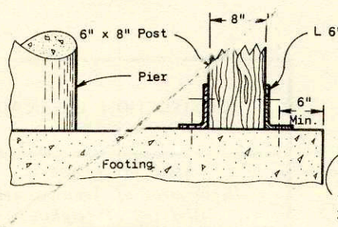
MOUNTING BOLT WASHER



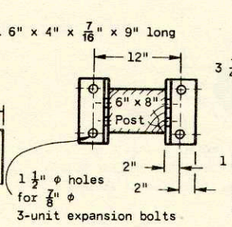
END SHOE DETAIL



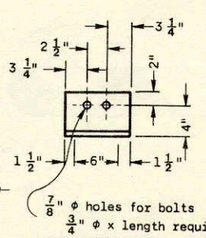
TYPICAL TERMINAL END ELEVATION



SECTION VIEW

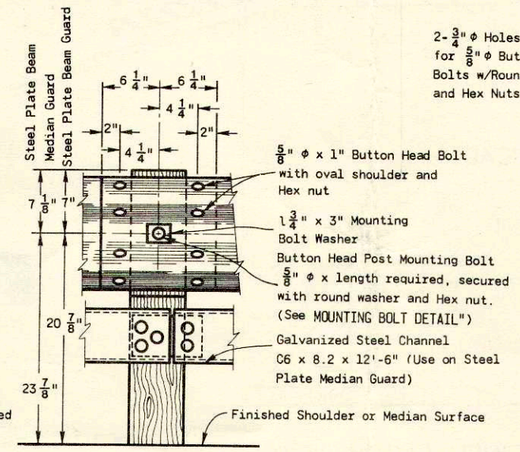


PLAN VIEW

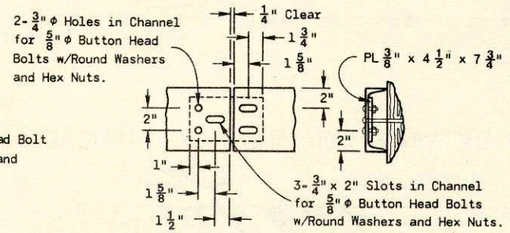


ELEVATION

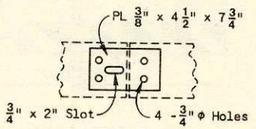
POST FOOTING DETAIL AT PIERS



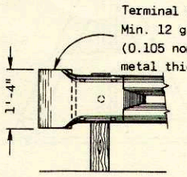
RAIL ELEMENT SPLICING AND POST MOUNTING DETAIL



RUB RAIL SPLICE DETAIL

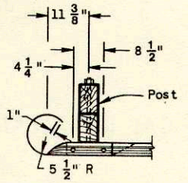


SPLICE PLATE



FRONT ELEVATION

TERMINAL SECTION DETAILS



PLAN VIEW

NOTE:
THIS STANDARD DETAIL DRAWING CONSISTS OF TWO PLATES, AND BOTH PLATES ARE REQUIRED WHEN THIS STANDARD IS CALLED FOR IN THE PLANS.

CLASS "A"
STEEL PLATE BEAM GUARD & STEEL PLATE BEAM MEDIAN GUARD

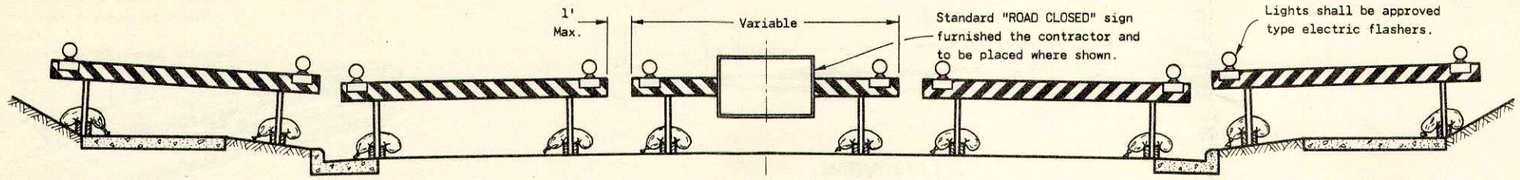
State of Wisconsin
Department of Transportation
Division of Highways

RECOMMENDED FOR APPROVAL:
10-29-73 DATE — CHIEF of FACILITIES DEVELOPMENT

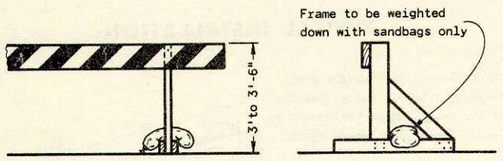
APPROVED
10-29-73 DATE — STATE HIGHWAY ENGINEER

S.D.D. 14 B 2-3b

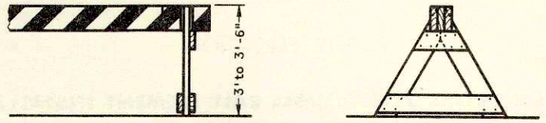
S.D.D. 14 B 2-3



TYPICAL INSTALLATION SHOWING RIGID BARRICADES

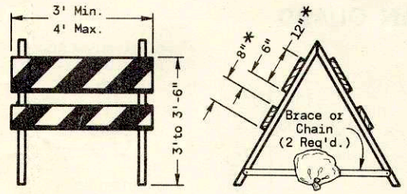


ALTERNATE TYPE INSTALLATION (RIGID)

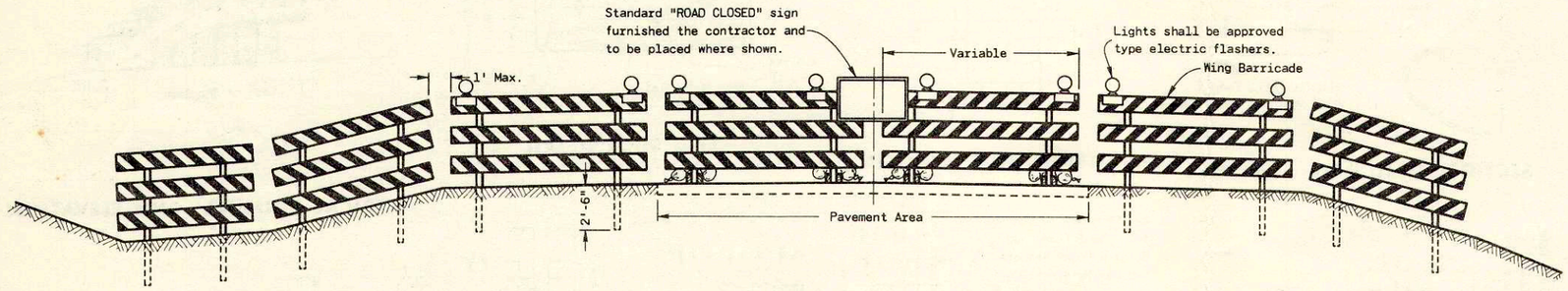


ALTERNATE TYPE INSTALLATION (DEMOUNTABLE)

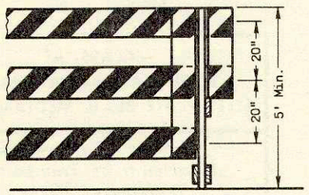
CLASS I BARRICADES

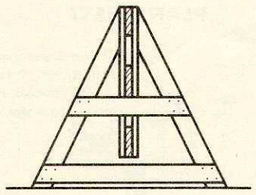


CLASS II BARRICADE

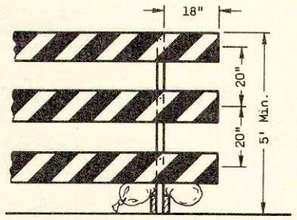


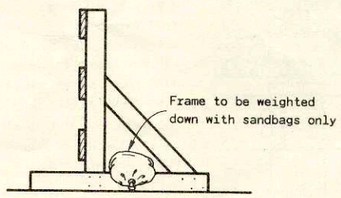
TYPICAL INSTALLATION SHOWING FIXED AND RIGID BARRICADES





ALTERNATE TYPE INSTALLATION (DEMOUNTABLE)





ALTERNATE TYPE INSTALLATION (RIGID)

CLASS III BARRICADES

GENERAL NOTES

The contractor shall provide and maintain Barricades as shown on this drawing and as required by the Standard Specifications and the applicable Special Provisions.

CLASS I OR CLASS II BARRICADES:
Class I or II Barricades shall 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.

CLASS III BARRICADE:
Class III Barricades shall be of variable length as indicated, and long barricades shall be assembled from these units. The Class III Barricade is the type normally required for major operations, where the barricade will remain in place for extended periods. Class III 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 III 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 white.

MATERIAL AND FABRICATION:
Barricades may be constructed of wood, metal or other suitable material.
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 or other suitable material 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. Fixed Barricades shall be break-away design.

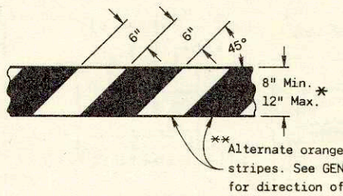
STRIPES:
All Barricade Rails shall have alternate 6 inch orange and 6 inch white stripes at a 45° angle. If the Barricade is to be used at night, the entire area of orange and white stripes shall be reflectorized, to meet Wisconsin MUTCD requirements. The predominant color for other Barricade Components shall be white.

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 slope downward toward the roadway.

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

MEASUREMENT AND 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.

* Nominal dimensions when barricade is constructed of lumber.



TYPICAL RAIL
Applies to all Classes &
Alternate Types of Barricades

** Alternate black & white stripes may be used until May 1, 1975 but black & white and orange & white Barricades may not be mixed on the same project.

CONSTRUCTION BARRICADE

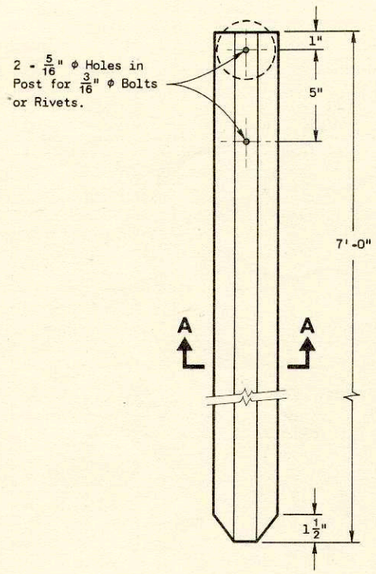
State of Wisconsin
Department of Transportation
Division of Highways

RECOMMENDED FOR APPROVAL:
8-1-74 DATE — CHIEF of FACILITIES DEVELOPMENT

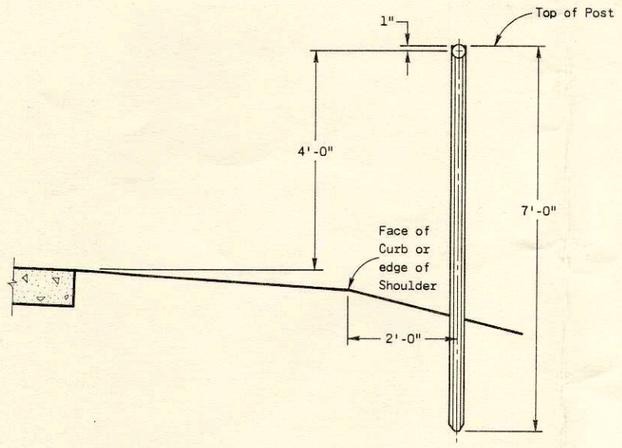
APPROVED
8-1-74 DATE — STATE HIGHWAY ENGINEER

S.D.D. 15C 1-3

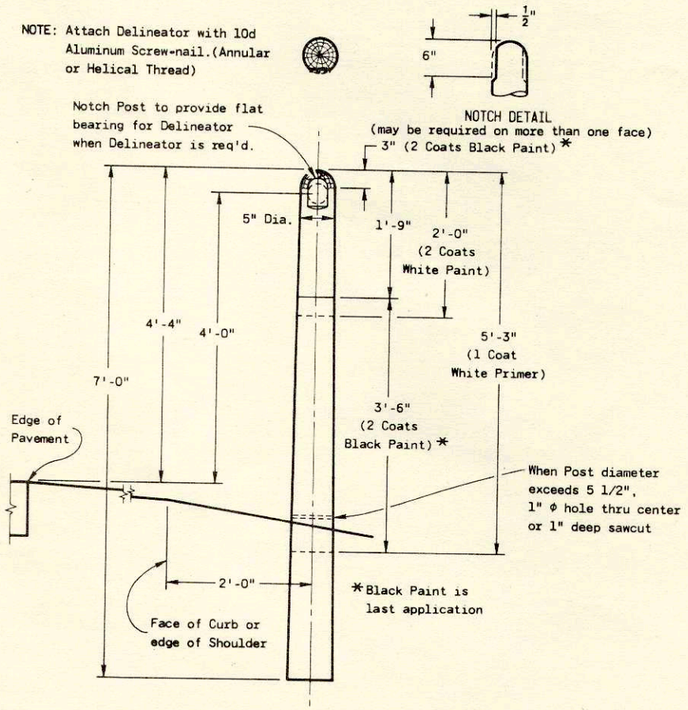
S. D. D. 15C1-3



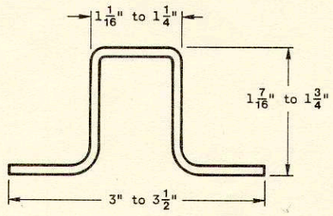
DELINEATOR POST

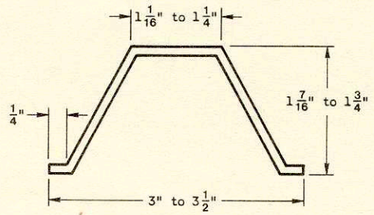


TYPICAL INSTALLATION OF DELINEATOR POSTS

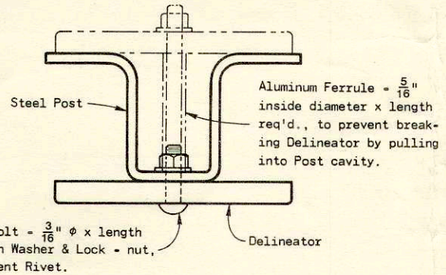


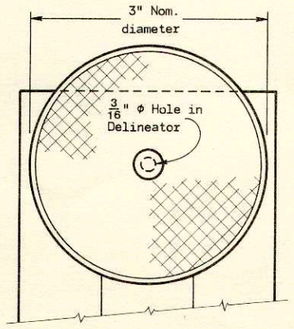
MARKER POST





SECTION A-A
(Minimum weight 2.0 lbs. per ft.)





DELINEATOR MOUNTING DETAIL ON DELINEATOR POST

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.

Detailed requirements for Delineators,not shown on this drawing shall conform to Section 633 of the Standard Specifications and the WISCONSIN MANUAL OF TRAFFIC CONTROL DEVICES. The reflectors in the Delineators shall be clear.

When the cross sectional area of the Marker Post measured at the ground line exceeds 24 square inches ($5\frac{1}{2}$ inch diameter) the post shall be weakened near the ground line by either drilling a 1 inch diameter hole transversely through the center of the post or by making a transverse saw cut to a depth of approximately 1 inch on the side of the post facing traffic.

DELINEATOR POSTS
MARKER POSTS AND DELINEATORS

State of Wisconsin
Department of Transportation
Division of Highways

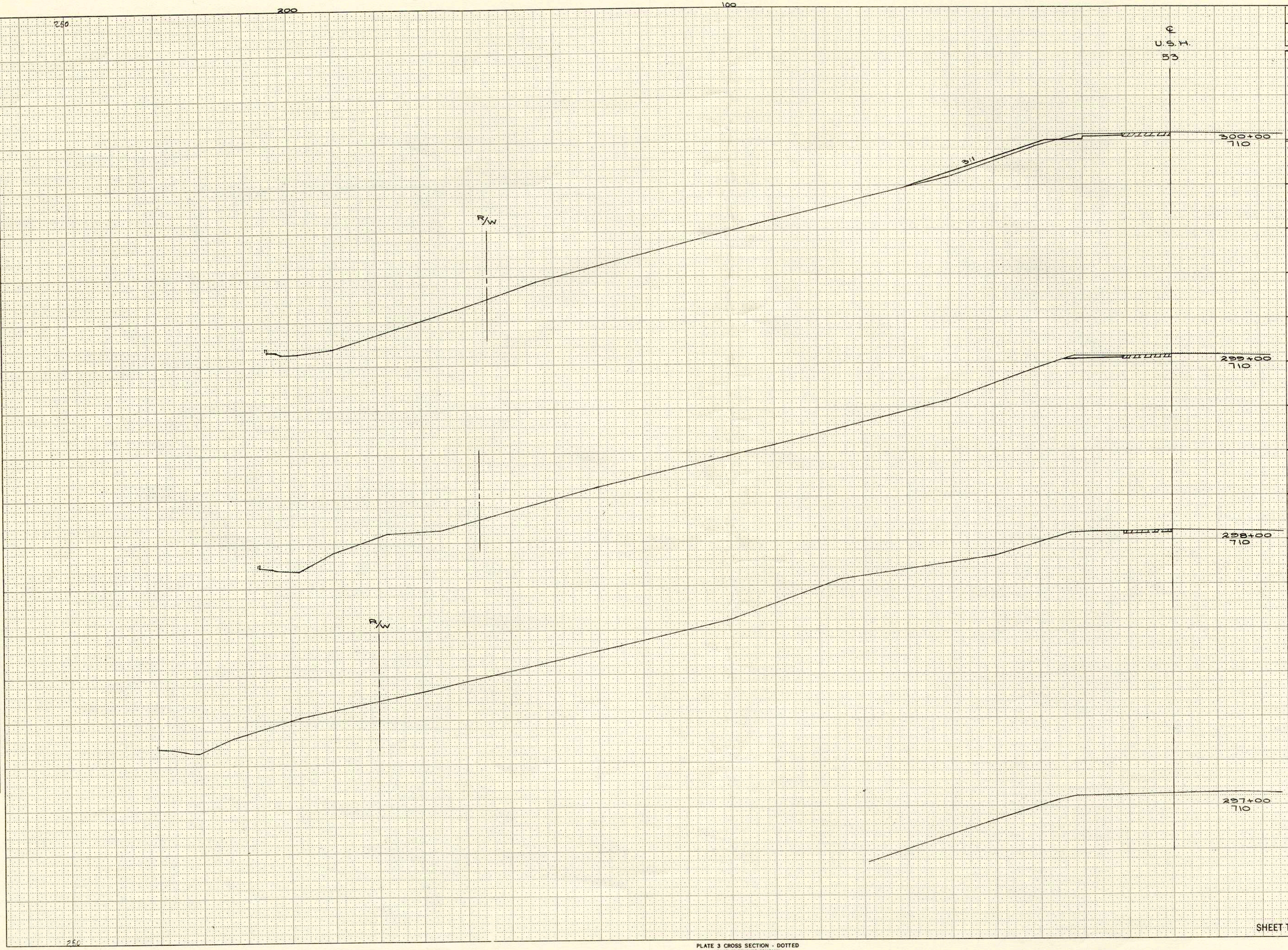
RECOMMENDED FOR APPROVAL:
8-27-74 DATE — CHIEF of FACILITIES DEVELOPMENT

APPROVED
8-27-74 DATE — STATE HIGHWAY ENGINEER

S.D.D. 15 A2-1

S.D.D. 15 A2-1

PROJECT DESIGNATION	SHEET NUMBER
7078-1-71	8



STATION	DISTANCE	YARDAGE: EXCAVATION [illegible]	EXCAVATION	EXCAVATION	EXCAVATION	FILL
299+00		0				0
300+00		0				37
301+00		0				80
SHEET TOTAL		0				117

FINAL SURVEY		BY	DATE
NOTE BOOK NO.	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

ORIGINAL SURVEY		BY	DATE
NOTE BOOK NO.	SURVEYED	B.J.B.	
	PLOTTED	J.K.S.	2-76
	TEMPLATE	J.K.S.	"
	AREAS	H.L.H.	"
	AREAS CHECKED	J.K.S.	"

200 100

℄ C.T.H. "Z"

℄ U.S.H. 8

709.00

2:1 1½:1 HEAVY RIPRAP

4:1 10:1 04.0 3:1

304+00 710

303+00 710

302+00 710

301+00 710

3:1

R/W

R/W

PROJECT DESIGNATION	SHEET NUMBER
7078-1-71	8.1

STATION	DISTANCE	YARDAGE EXCAVATION	YARDAGE FILL
301 + 00			
	0		80
302 + 00			
	0		48
303 + 00			
	304		1,648
303 + 75			
	841		4,167
305 + 00			
SHEET TOTAL	1,145		5943

SURVEY NOTE BOOK NO.
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED JKS

BRUNING 40-230 20813

PLATE 3 CROSS SECTION - DOTTED
CHARLES BRUNING COMPANY

200 100

PROJECT DESIGNATION: 7078-1-71 | SHEET NUMBER: 8.2

STATION	DISTANCE	YARDAGE EXCAVATION	YARDAGE FILL
308+00			
	398		1,324
306+00			
	148		176
307+00			
	15		0
308+00			
	0		0
SHEET TOTAL	561		1,500

308+00 710

℄ C.T.H. "Z"

R/W

308+00 710

307+00 710

℄ C.T.H. "Z"

NEW ℄ "Z"

EXIST. "Z"

699.5

4:1

4:1 10:1

57.0

2½:1

306+00 710

NEW ℄ "Z"

EXIST. "Z"

706.00

4:1

10:1

02.0

2½:1

305+00 710

2:1

R/W

℄ U.S.H. 53

FINAL SURVEY — NOTE BOOK NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

ORIGINAL SURVEY — NOTE BOOK NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

BRUNING 40-230 20813

PLATE 3 CROSS SECTION - DOTTED
CHARLES BRUNING COMPANY
MADE IN U.S.A.

PROJECT DESIGNATION	SHEET NUMBER
7085-1-71	8.3

STATION	DISTANCE	YARDAGE EXCAVATION 320	FILL
448+00			
720			
RE. 434+00 LT.			
435 + 00		110	
			20
436 + 00			
		120	40
RE 436+80 RT.			
437 + 00			40
447+00			
720			
438 + 00			
RE. 438+00 LT.		100	40
439 + 00			
PRO. - HALE RD.			
446+30			40
720			
NOT FOR YARDAGE			
440 + 00			40
441 + 00			
			40
442 + 00			
446+00			40
720			
443 + 00			
		170	45
RE. 444+60 RT.			
444 + 00		220	
445+00		400	55
720			
445 + 00			
		440	30
446 + 00			
444+00		380	0
720			
447 + 00		290	0
448 + 00			
443+00			
720			
442+00			
720			
SHEET TOTAL		2230	430

P.E.

24.5

OBLIT. OLD ROAD

24.0

OBLIT. OLD ROAD

23.0

P.E. 12' 3:1

15.3

MAIN

18.2

PE 12' 3:1 40:1

20.0

P.C.C. TO REMAIN IN PLACE + P.E.

21.0

SCALE: 1" = 10' HOR.
1" = 10' VERT.

PLATE 3 CROSS SECTION - DOTTED
CHARLES BRUNING COMPANY
MADE IN U.S.A.

BRUNING 40-230 20813

C.T.H "OT"

FINAL SURVEY		DATE
NOTE BOOK	SURVEYED	
NO.	PLOTTED	BY
	TEMPLATE	
	AREAS	
	AREAS CHECKED	

ORIGINAL SURVEY		DATE
NOTE BOOK	SURVEYED	12-27
NO.	PLOTTED	1-28
	TEMPLATE	
	AREAS	
	AREAS CHECKED	

50 50

℄

456+00
720

455+00
720

454+00
720

453+00
720

℄ PRO.
C.T.H. "DH"
452+35
720
NOT FOR YARDAGE

452+00
720

451+00
720

450+00
720

449+00
720

23.5

24.0

24.5

PROJECT DESIGNATION	SHEET NUMBER
7085-1-71	8.4

STATION	DISTANCE	YARDAGE EXCAVATION	FILL
448 + 00			
	130		0
449 + 00			
	140		0
450 + 00			
	130		0
451 + 00			
	60		0
452 + 00			10
453 + 00			10
454 + 00			20
455 + 00			20
456 + 00			
SHEET TOTAL	520		60

SCALE: 1" = 10' HOR.
1" = 10' VERT

C.T.H. "OT"

STATE PROJECT	FEDE… PROJE…
7078-1-71	HHS 08-3…
7085-1-71	HHS 08-3(51…

R 1 - 6/17/75

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PLAN AND PROFILE OF PROPOSED

BRICE PRAIRIE - U.S.H. 53

(JCT. C.T.H. "Z" & U.S.H. 53)

U.S.H. 53

LA CROSSE CO.

STATE PROJECT NUMBER
7078-1-71

MIDWAY - HOLMEN

(JCT. C.T.H. "OT" & U.S.H. 53)

U.S.H. 53

LA CROSSE CO.

STATE PROJECT NUMBER
7085-1-71

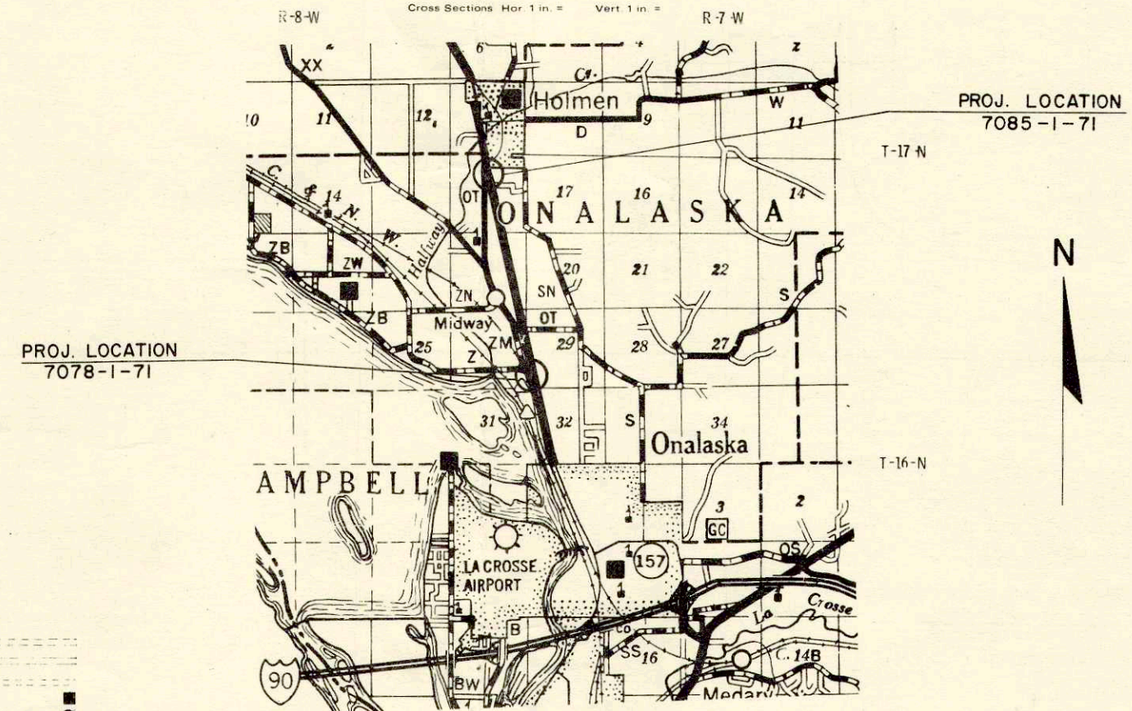
Index of Sheets

TOTAL SHEETS = 14

Design Designation

		C.T.H. "Z" - C.T.H. "OT"	C.T.H. "OT" - U.S.H. 53
A.D.T. 1975	=	1800	750 / 8020
A.D.T. 1990	=	2490	2640 / 14365
D.H.V.	=	220	240 / 1290
D.	=	60-40%	60-40% / 60-40%
T.	=	5%	1% / 10%
V.	=	—	— / 50 M.P.H.

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



Conventional Signs

County Line		Culverts in Place	
Township or Range Line		Culverts Required	
Section Line		Drop Inlet	
New Right of Way Line		Power Pole	
Present Right of Way Line		Telephone or Telegraph Pole	
Wire Fence	(type)	Right of Way Markers	
Corporate or City Limits		Reference Stake for Hubs Only	+61.7 / 25.9
Property Line	P.L.	Marsh	
Traveled Way or P.E.		Hedge	
Railroads		Trees	
Base or Survey Line		Ground Elevation	Datum Line 729
Caution Symbol (combustible fluids under pressure)	CAUTION	Grade Elevation	Datum Line 76.8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATIO…
DIVISION OF HIGHWA…

Surveyed: B. S. B. District Checker: J…
Designed: D. B. D. C.O. Checker: R…

Correct:
Date 4/14/75 — District Engineer

Recommended for Approval:
DATE 4/29/75 — CHIEF TRAFFIC ENGINEE…
Date 4/29/75 — Chief of Facilities Develop…

Approved:
Date 4/30/75 — State Highway Engine…

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATI…
REGION 5 WISCONSIN DIVISION

Approved:
Date — Division Engineer

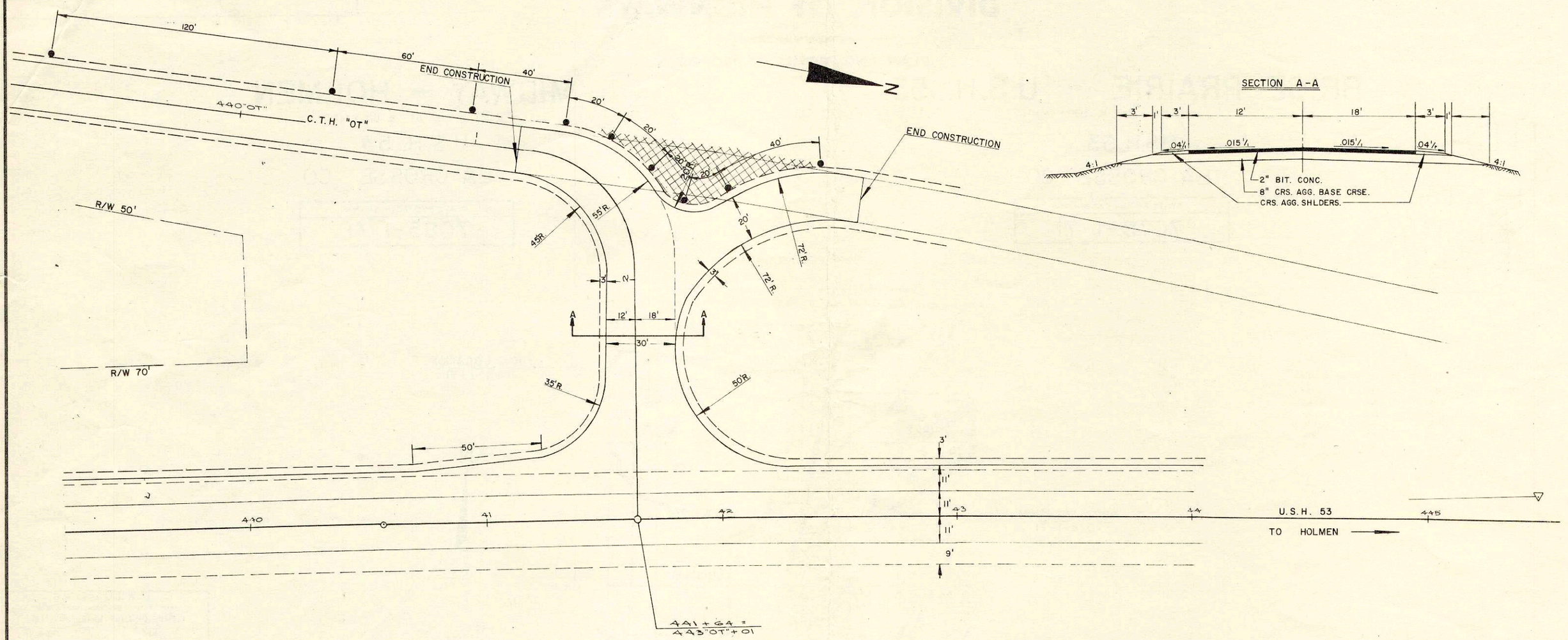
7078-1-71 7085-1-71

PROJECT DESIGNATION	SHEET NO.
7085 - 1 - 71	2

DETAIL DRAWING FOR C.T.H. "OT"

R I - 6/17/75

● DENOTES DELINEATOR POSTS AND DELINEATORS



SECTION A-A

UTILITY CO.

TREMP. ELEC. CO.
ARCADIA , WISC.
REP: GAY HESS
PH: 323-3381

LA CROSSE TELE. CO.
205 5th. AVE. S.
LA CROSSE , WISC.
REP: G. GRAHAM
PH: 782 - 9951

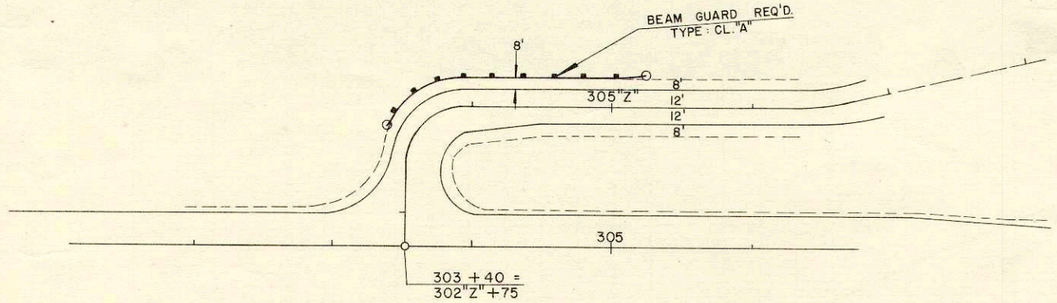
ESTIMATE OF QUANTITIES

CONTRACT NO. 1
GRADING, BASE & BIT. CONC.

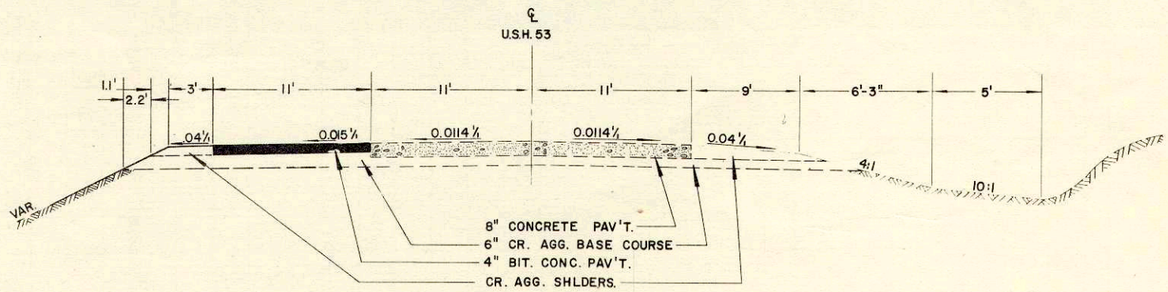
PROJECT DESIGNATION	SHEET NO.
7078-1-71 & 7085-1-71	3

R 1 - 6/17/75

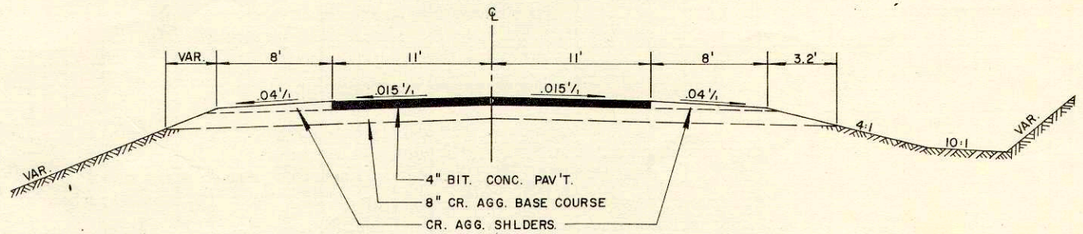
STATION TO STATION	NET LENGTH OF CENTER LINE	CLEARING	GRUBBING	UNCLASSIFIED EXCAVATION	BORROW EXCAVATION			OBLITERATING OLD ROAD	CRUSHED AGGREGATE BASE COURSE	BITUMINOUS CONCRETE PAVEMENT	BITUMINOUS MATERIAL FOR SURFACE COURSE	DELINEATOR POSTS	DELINEATORS	ANCHORAGES FOR STEEL PLATE BEAM GUARD	STEEL PLATE BEAM GUARD CLASS "A"	SALVAGED TOPSOIL	MULCHING	FERTILIZER	SEEDING	SODDING	HEAVY RIPRAP	FIELD OFFICE TYPE "A"	
ITEM NO		20101	20104	20503	20801			21401	30403	40701	40702	63301	63305	61406	61408	62505	62702	62901	63002	63101	60602	64201	
UNIT	LIN FT	STA	STA	C.Y.	C.Y.			STA	C.Y.	TON	TON	EACH	EACH	EACH	L.F.	SQ.YD.	SQ.YD.	CWT.	LB.	SQ.YD.	C.Y.	L.S.	
PROJECT I.D.																							
32-5 "Z" 7078-1-71		2	2	1710	6010				1240	580	35	9	18	2	150	5000	6500	23	120	250	350	1	
32-6 "OT" 7085-1-71				2750				7	280	810	50					2100		3	80				
		2	2	4460	6010			7	1520	1390	85	9	18	2	150	7100	6500	26	200	250	350	1	



BEAM GUARD DETAIL
C.T.H. "Z"



TYPICAL SECTION
(U.S.H. 53)



TYPICAL SECTION
(C.T.H. "Z")

STANDARD DETAIL DRAWINGS

14B2 - 3a & 3b	Steel Plate Beam Guard, Class A
15C1 - 3	Construction Barricade
15A2 - 1	Delineator Posts and Delineators

GENERAL NOTES

No trees are to be removed without the approval of the engineer.

When the quantity of the items of base course is measured for payment by the ton or cubic yard, the depth or thickness of the course shown on the plan is approximate and the actual thickness of the course depend on the distribution of the materials as directed by the engineer.

Salvaged topsoil shall be placed to an approximate depth of 3 inches at the time of placing on all slopes 2:1 or flatter.

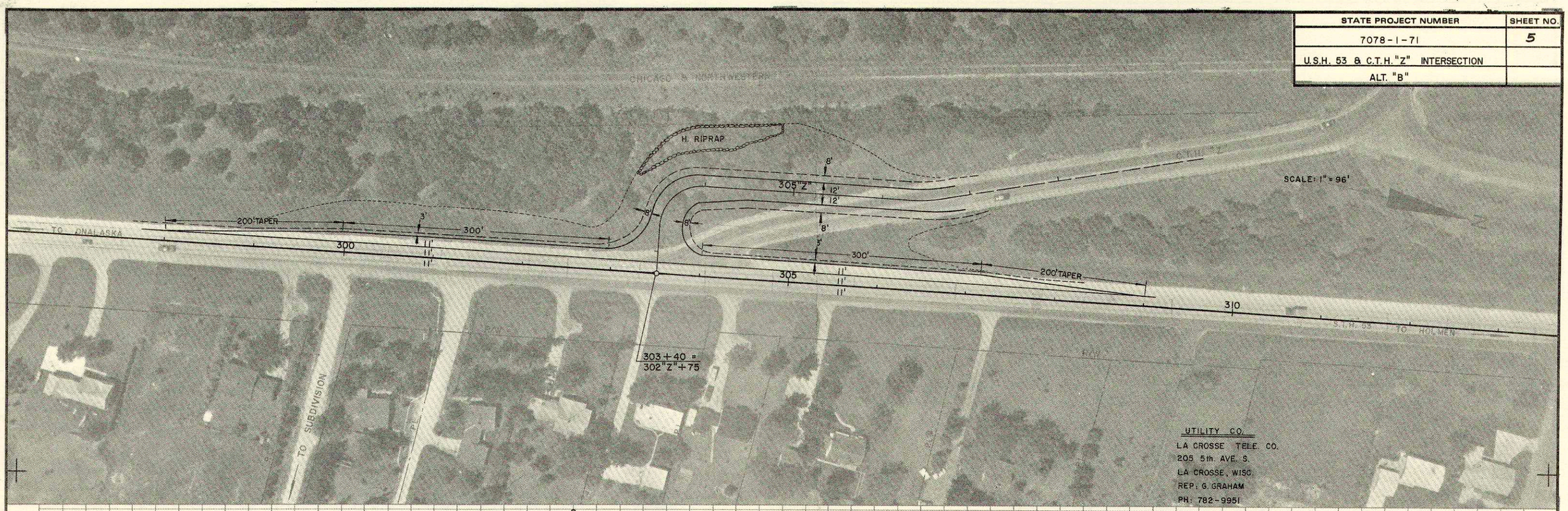
All slopes 4:1 and steeper shall be covered with mulch unless otherwise directed by the engineer.

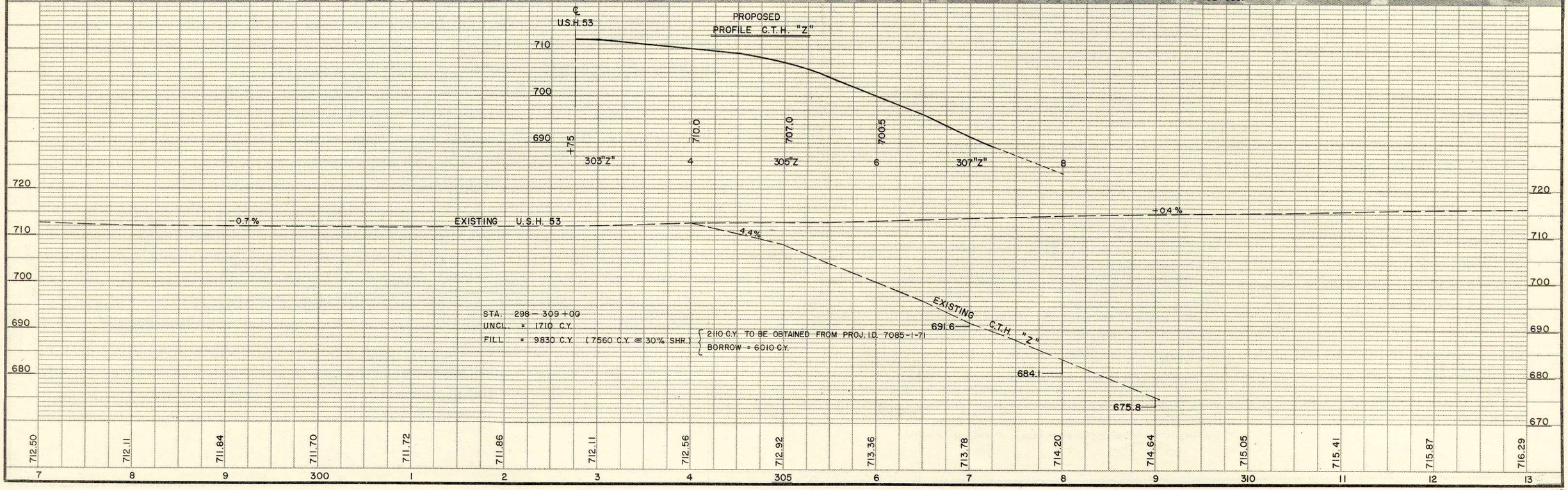
All areas of the right of way exclusive of the roadbed, riprap and areas already covered with suitable grasses shall be fertilized and seeded as directed by the engineer.

4 - inch bituminous concrete pavement shall be constructed with a 1 1/4 - inch surface course and 2 binder courses.

Exact location of access points shall be determined by the engineer in the field.

STATE PROJECT NUMBER	SHEET NO.
7078-1-71	5
U.S.H. 53 & C.T.H. "Z" INTERSECTION	
ALT. "B"	





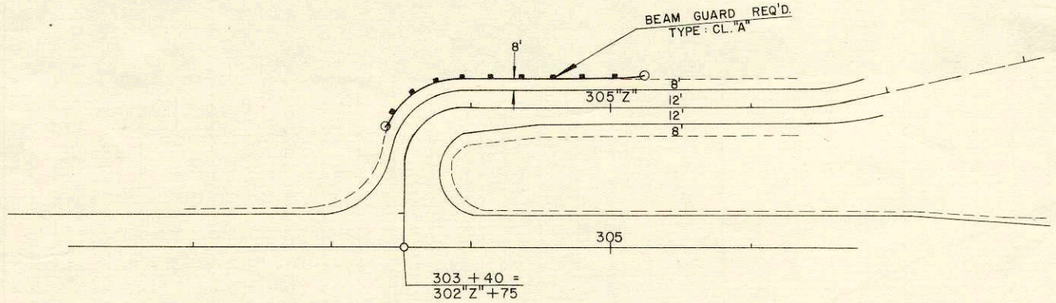
ESTIMATE OF QUANTITIES

CONTRACT NO. 1
GRADING, BASE & BIT. CONC.

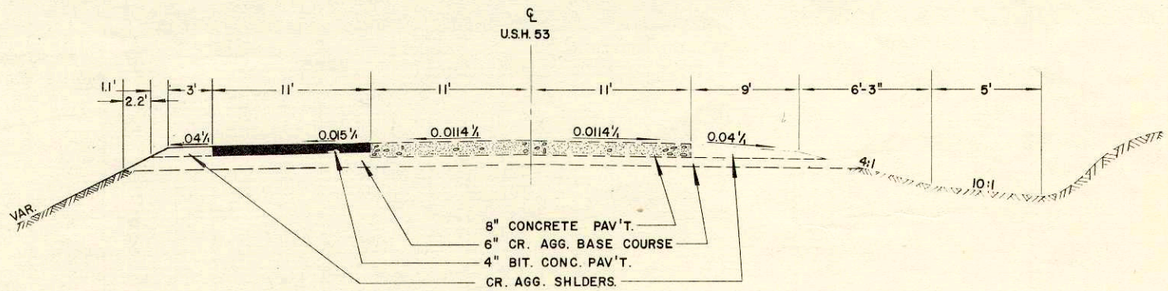
PROJECT DESIGNATION	SHEET NO
7078-1-71 & 7085-1-71	3

R 1 - 6/17/75

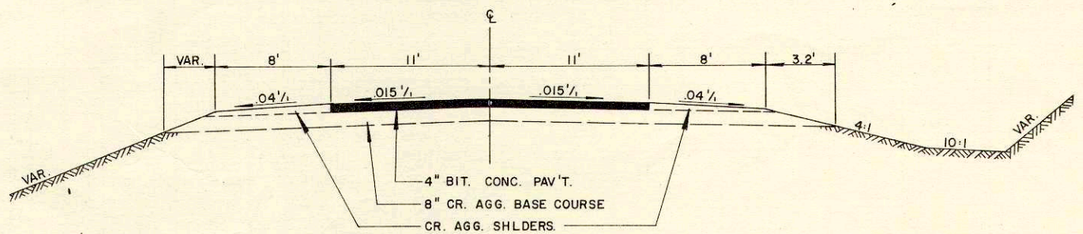
	STATION TO STATION	NET LENGTH OF CENTER LINE	CLEARING	GRUBBING	UNCLASSIFIED EXCAVATION	BORROW EXCAVATION			OBLITERATING OLD ROAD	CRUSHED AGGREGATE BASE COURSE	BITUMINOUS CONCRETE PAVEMENT	BITUMINOUS MATERIAL FOR SURFACE COURSE	DELINEATOR POSTS	DELINEATORS	ANCHORAGES FOR STEEL PLATE BEAM GUARD	STEEL PLATE BEAM GUARD CLASS "A"	SALVAGED TOPSOIL	MULCHING	FERTILIZER	SEEDING	SODDING	HEAVY RIPRAP	FIELD OFFICE TYPE "A"	
	ITEM NO / UNIT	LIN FT	20101 STA	20104 STA	20503 C.Y.	20801 C.Y.			21401 STA	30403 C.Y.	40701 TON	40702 TON	63301 EACH	63305 EACH	61406 EACH	61408 L.F.	62505 SQ.YD.	62702 SQ.YD.	62901 CWT.	63002 LB.	63101 SQ.YD.	60602 C.Y.	64201 L.S.	
	PROJECT I.D.																							
32-5	"Z" 7078-1-71		2	2	1710	6010				1240	580	35	9	18	2	150	5000	6500	23	120	250	350	1	
32-6	"OT" 7085-1-71				2750				7	280	810	50					2100		3	80				
			2	2	4460	6010			7	1520	1390	85	9	18	2	150	7100	6500	26	200	250	350	1	



BEAM GUARD DETAIL
C.T.H. "Z"



TYPICAL SECTION
(U.S.H. 53)



TYPICAL SECTION
(C.T.H. " Z ")

STANDARD DETAIL DRAWINGS

14 B 2 - 3 a & 3 b	Steel Plate Beam Guard, Class A
15 C 1 - 3	Construction Barricade
15 A 2 - 1	Delineator Posts and Delineators

GENERAL NOTES

No trees are to be removed without the approval of the engineer.

When the quantity of the items of base course is measured for payment by the ton or cubic yard, the depth or thickness of the course shown on the plan is approximate and the actual thickness of the course depend on the distribution of the materials as directed by the engineer.

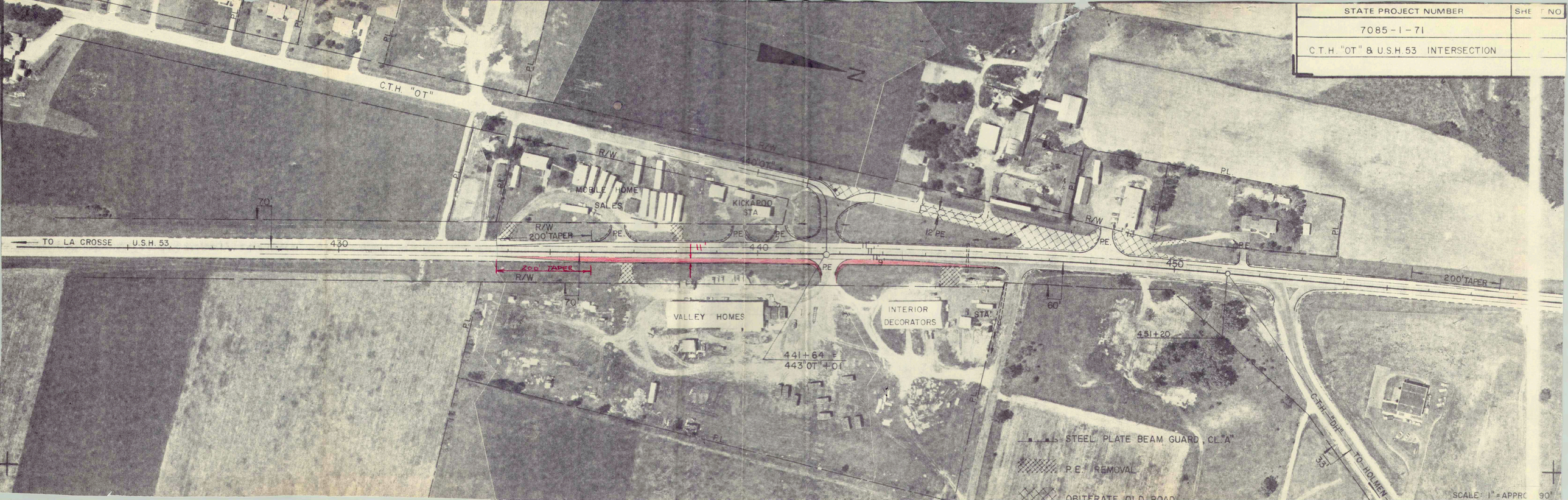
Salvaged topsoil shall be placed to an approximate depth of 3 inches at the time of placing on all slopes 2:1 or flatter.

All slopes 4:1 and steeper shall be covered with mulch unless otherwise directed by the engineer.

All areas of the right of way exclusive of the roadbed, riprap and areas already covered with suitable grasses shall be fertilized and seeded as directed by the engineer.

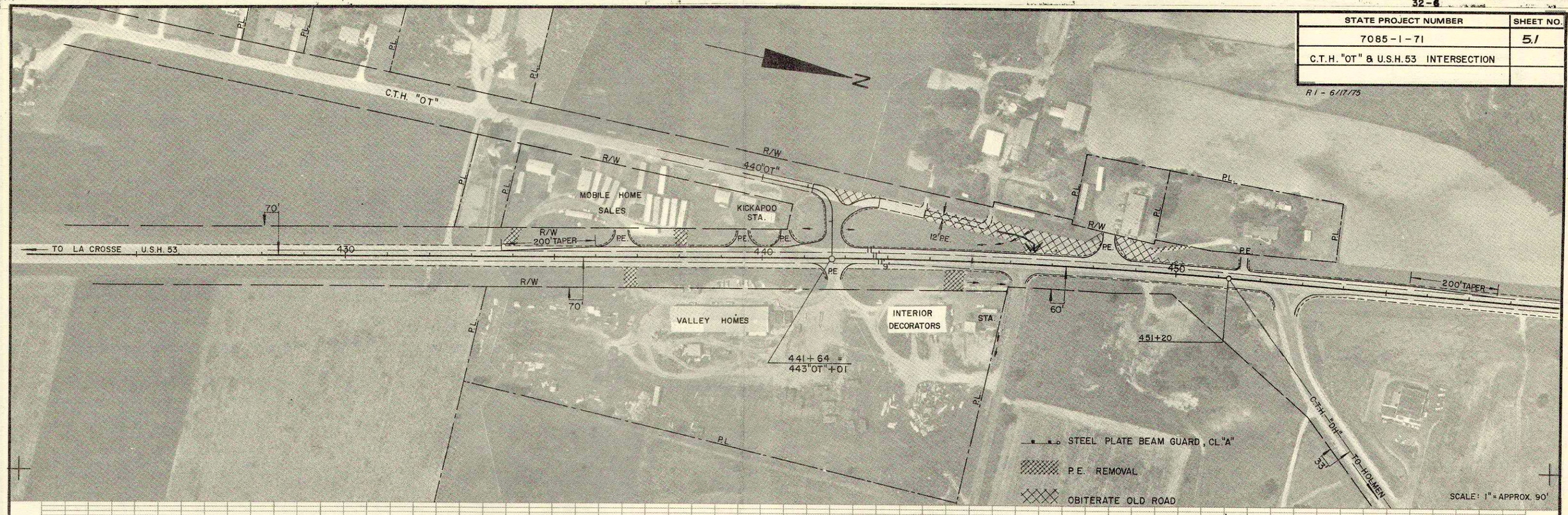
4 - inch bituminous concrete pavement shall be constructed with a 1 1/4 - inch surface course and 2 binder courses.

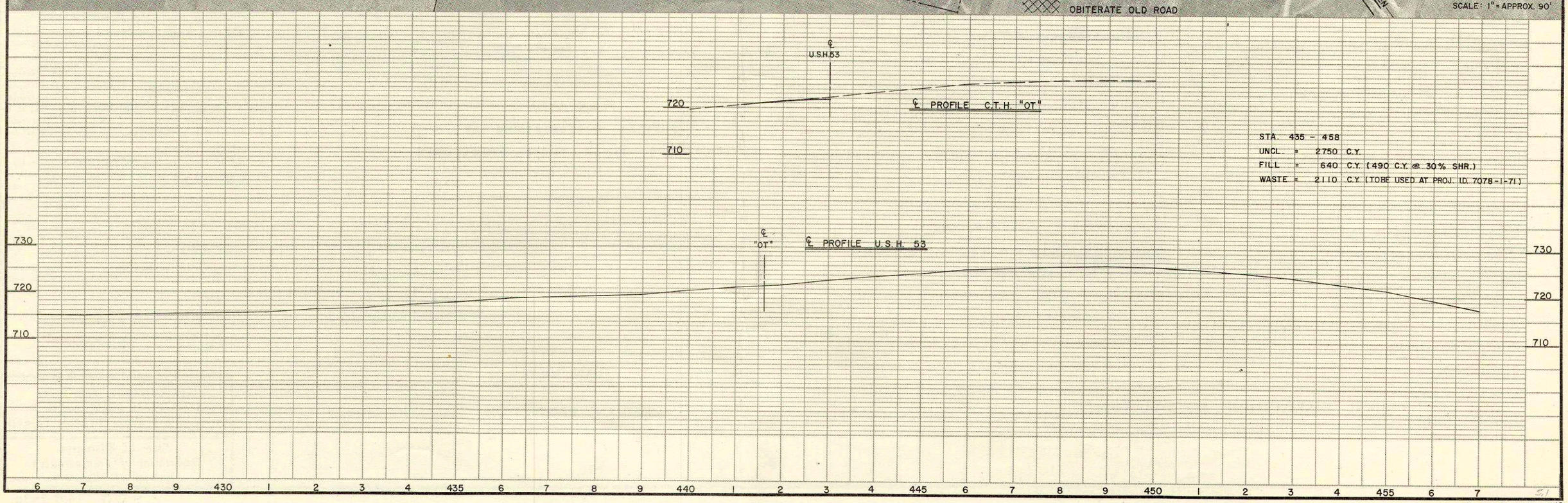
Exact location of access points shall be determined by the engineer in the field.

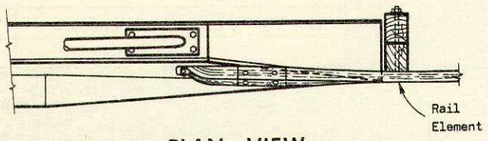

STATE PROJECT NUMBER
SHEET NO.
7085-1-71
C.T.H. "OT" & U.S.H. 53 INTERSECTION
C.T.H. "OT"
R/W
P.L.
MOBILE HOME SALES
KICKAPOO STA.
R/W 200' TAPER
P.E.
TO LA CROSSE U.S.H. 53
70'
430
440
450
200' TAPER
11'
12' P.E.
VALLEY HOMES
INTERIOR DECORATORS
441+64
443°0T"+01
451+20
60'
C.T.H. "DH"
TO HOLMEN
33'
STEEL PLATE BEAM GUARD, CL."A"
P.E. REMOVAL
OBLITERATE OLD ROAD
SCALE: 1" = APPRO

STATE PROJECT NUMBER	SHEET NO.
7085-1-71	5.1
C.T.H. "OT" & U.S.H. 53 INTERSECTION	

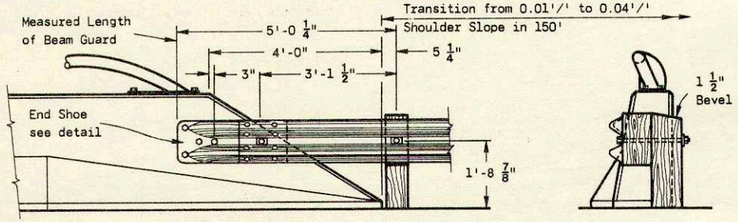
R.I. - 6/17/75







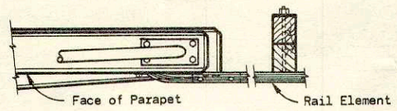
PLAN VIEW



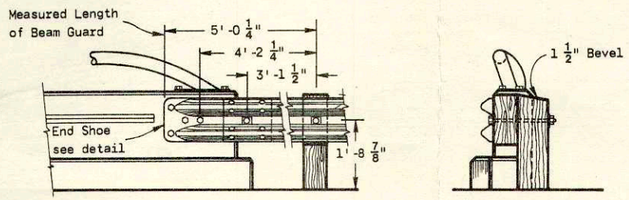
FRONT ELEVATION END ELEVATION

STRUCTURE MOUNTING DETAIL

SLOPING TYPE PARAPET WALL



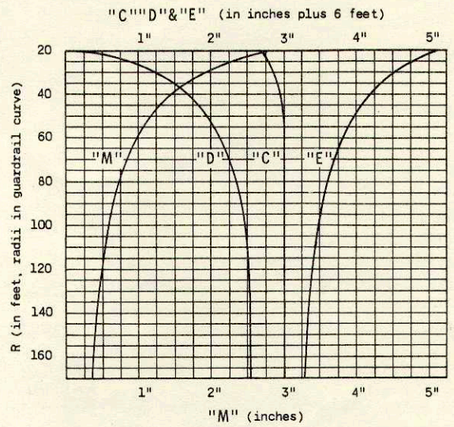
PLAN VIEW



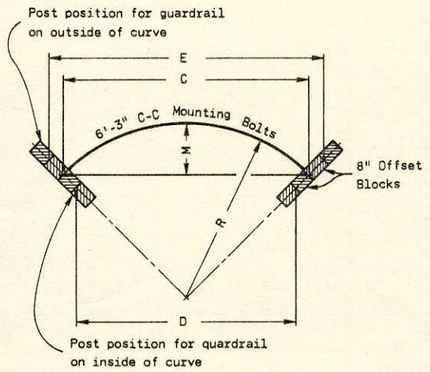
FRONT ELEVATION END ELEVATION

STRUCTURE MOUNTING DETAIL

VERTICAL TYPE PAPAPET WALL



CURVE DATA FOR POST SPACING AND BEAM CURVING



CHORD LENGTHS FOR POST SPACING AND MIDDLE ORDINATES FOR BEAM CURVING

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.

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.

Square anchor alternates will be permitted. Square anchors shall be a minimum of 24 inches x 24 inches.

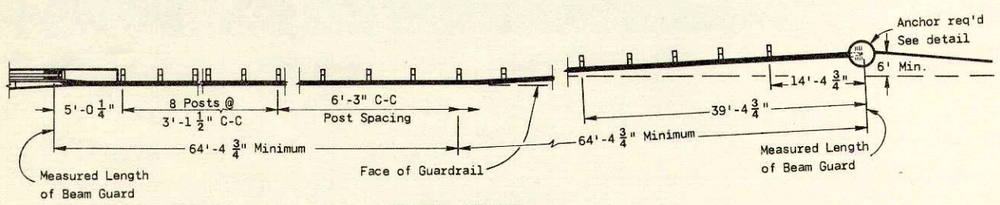
The shoulder widening to accommodate the anchored end of the guardrail shall be accomplished at the rate of widening not to exceed 15 to 1.

Upon approval of the Engineer, the 6 foot anchor offset may be reduced to nothing for replacement installations where existing conditions will not permit the desirable offset. However, when no offset greater than or equal to 3 feet can be provided, the minimum length of guardrail in advance of an obstacle (obstacle to anchor) shall be 150 feet.

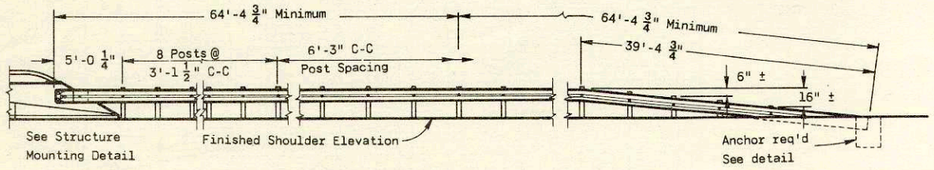
The minimum clearance from the front face of guardrail to obstacle shall be 3 feet unless otherwise shown on contract plans. When clearance is less than 3 feet post spacing shall be reduced to 3 feet - 1 1/2 inches C.C.

The "Post Footing Details At Piers" shall be used when guardrail posts are over structure footings and less than 3 feet - 6 inches of earth is provided over the top of the footing.

NOTE:
THIS STANDARD DETAIL DRAWING CONSISTS OF TWO PLATES, AND BOTH PLATES ARE REQUIRED WHEN THIS STANDARD IS CALLED FOR IN THE PLANS.

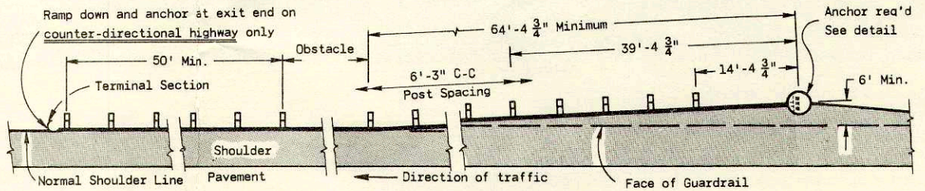


PLAN VIEW



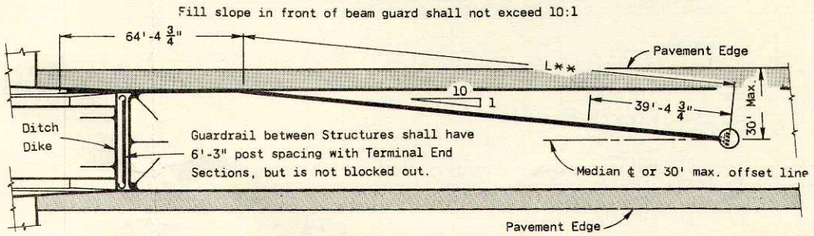
FRONT ELEVATION

TYPICAL INSTALLATION AT STRUCTURES



PLAN VIEW

TYPICAL INSTALLATION AT LOCATIONS OTHER THAN STRUCTURES



** Variable based on Median width or 30' max. offset

PLAN VIEW

MEDIAN PROTECTION

CLASS "A"
STEEL PLATE BEAM GUARD &
STEEL PLATE BEAM MEDIAN GUARD

State of Wisconsin
Department of Transportation
Division of Highways

S.D.D. 14 B 2-3a

S.D.D. 14 B 2-3a

32-6

STATE PROJECT NUMBER	SHEET NO.
7085-1-71	5.1
C.T.H. "OT" & U.S.H. 53 INTERSECTION	

R1 - 6/17/75

C.T.H. "OT"

P.L.

R/W

440'OT"

MOBILE HOME SALES

KICKAPOO STA.

R/W 200' TAPER

P.E.

12' P.E.

70'

TO LA CROSSE U.S.H. 53

430

440

450

9°

200' TAPER

60'

VALLEY HOMES

INTERIOR DECORATORS

STA.

441+64 = 443"OT"+01

451+20

C.T.H. "DH" TO HOLMEN

53

STEEL PLATE BEAM GUARD, CL "A"

P.E. REMOVAL

OBITERATE OLD ROAD

SCALE: 1" = APPROX. 90'

℄ U.S.H.53

℄ PROFILE C.T.H. "OT"

720

710

730

℄ "OT"

℄ PROFILE U.S.H. 53

STA. 435 - 458

UNCL. = 2750 C.Y.

FILL = 640 C.Y. (490 C.Y. @ 30% SHR.)

WASTE = 2110 C.Y. (TO BE USED AT PROJ. ID. 7078-1-71)

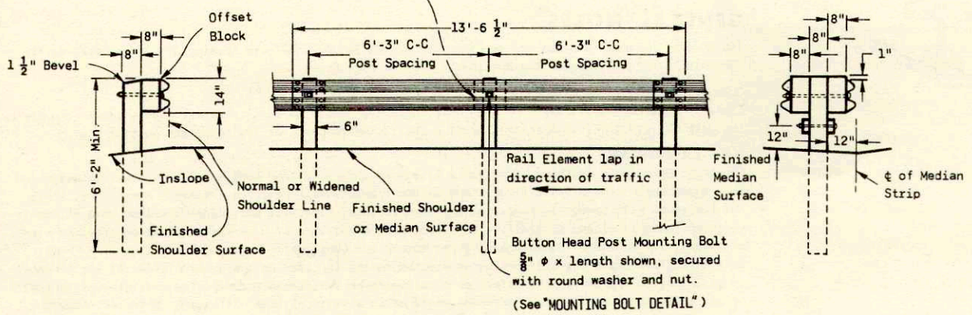
6 7 8 9 430 1 2 3 4 435 6 7 8 9 440 1 2 3 4 445 6 7 8 9 450 1 2 3 4 455 6 7

5.1

Catalog No. 2130-D142

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

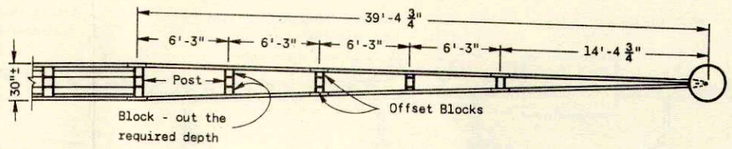
Sawed and treated timber posts and offset blocks shall be furnished and placed in accordance with Standard Specifacations. Posts shall be 6" x 8" x 6'-6" and have 6" x 8" x 14" offset blocks.



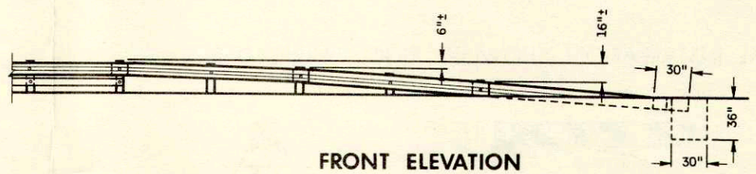
END ELEVATION | FRONT ELEVATION | END ELEVATION

STEEL PLATE BEAM GUARD | **STEEL PLATE BEAM MEDIAN GUARD**

STEEL PLATE BEAM GUARD OR STEEL PLATE BEAM MEDIAN GUARD

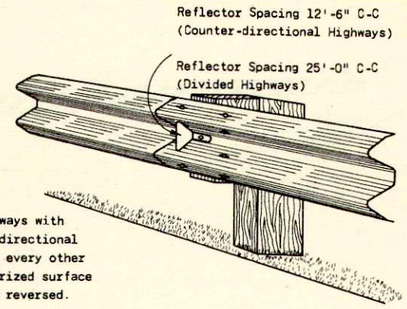


PLAN VIEW



FRONT ELEVATION

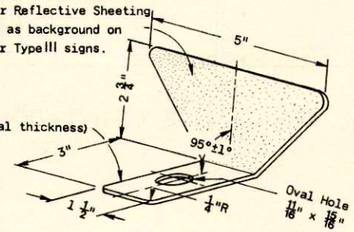
ANCHOR DETAIL FOR DOUBLE RAIL ELEMENT INSTALLATION



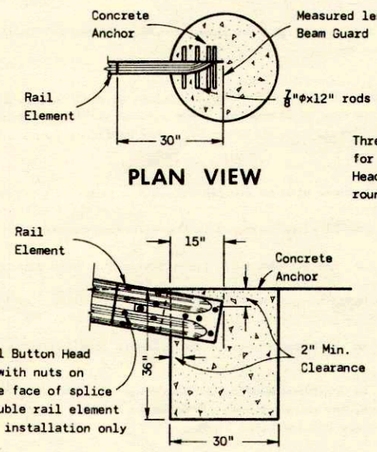
NOTE:
For highways with counter-directional traffic, every other reflectorized surface shall be reversed.

TYPICAL INSTALLATION

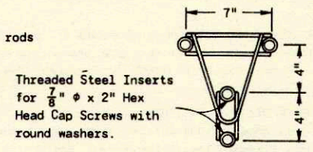
The reflectorized surface shall consist of Silver Reflective Sheeting of the type used as background on TypeI, TypeII, or TypeIII signs.



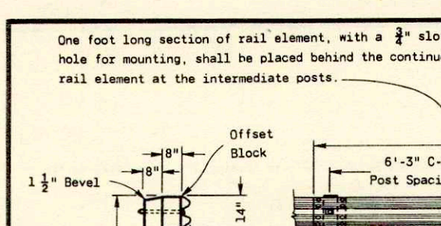
REFLECTOR DETAIL



PLAN VIEW



PLAN VIEW



SECTION VIEW

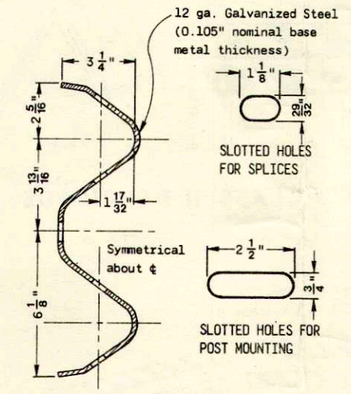
ANCHOR DETAIL

SINGLE RAIL ELEMENT INSTALLATION

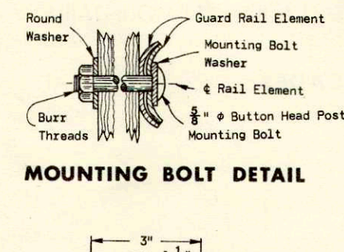
ELEVATION

4 BOLT INSERT ASSEMBLY

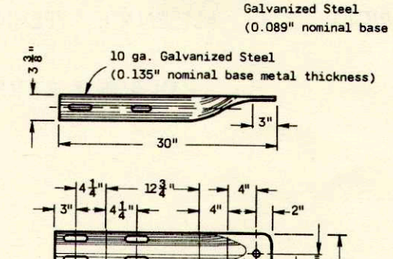
NOTE: Installation of 4 Bolt Insert Assembly (with Cap Screws inserted) to be part of Bridge Contract.

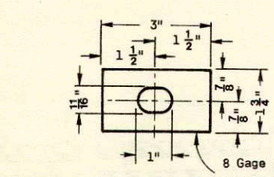


SECTION THRU RAIL ELEMENT

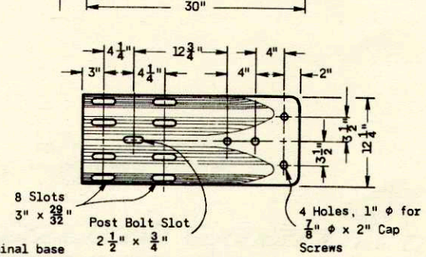


MOUNTING BOLT DETAIL

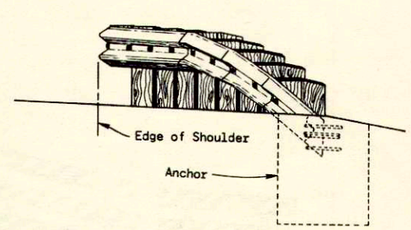




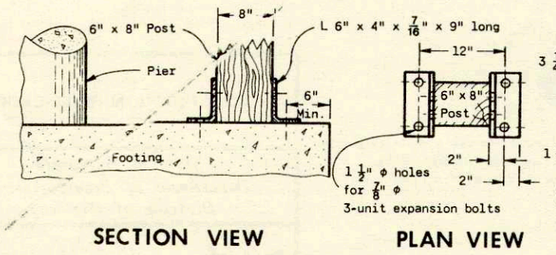
MOUNTING BOLT WASHER



END SHOE DETAIL

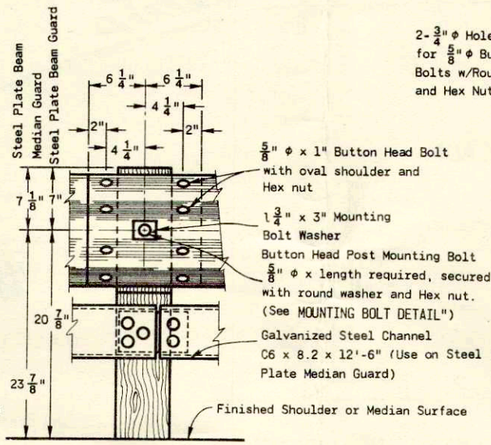


TYPICAL TERMINAL END ELEVATION

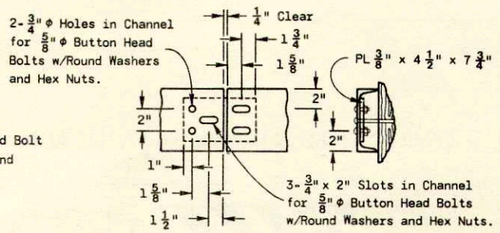


SECTION VIEW | **PLAN VIEW** | **ELEVATION**

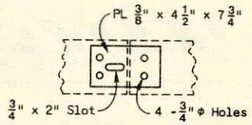
POST FOOTING DETAIL AT PIERS



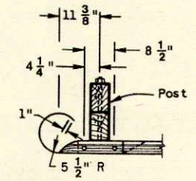
RAIL ELEMENT SPLICING AND POST MOUNTING DETAIL



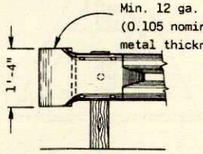
RUB RAIL SPLICE DETAIL



SPLICE PLATE



PLAN VIEW



FRONT ELEVATION

TERMINAL SECTION DETAILS

NOTE:
THIS STANDARD DETAIL DRAWING CONSISTS OF TWO PLATES. AND BOTH PLATES ARE REQUIRED WHEN THIS STANDARD IS CALLED FOR IN THE PLANS.

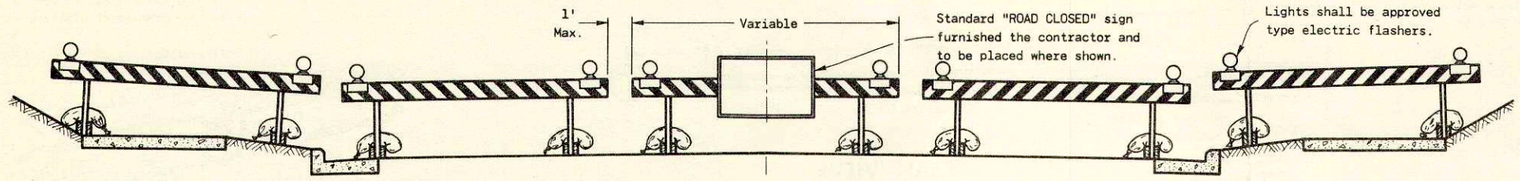
CLASS "A"
STEEL PLATE BEAM GUARD &
STEEL PLATE BEAM MEDIAN GUARD

State of Wisconsin
Department of Transportation
Division of Highways

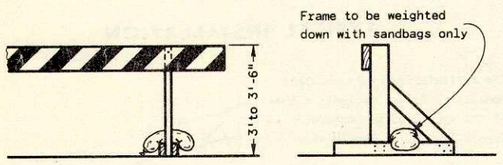
RECOMMENDED FOR APPROVAL:
10-29-73 DATE — L. C. Hamm, CHIEF OF FACILITIES DEVELOPMENT
APPROVED
10-29-73 DATE — H. J. Snellen, STATE HIGHWAY ENGINEER

S.D.D. 14 B 2-3b

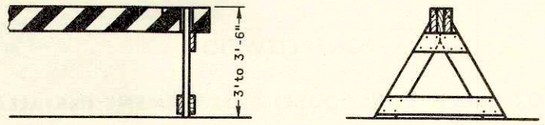
S.D.D. 14 B 2-3



TYPICAL INSTALLATION SHOWING RIGID BARRICADES

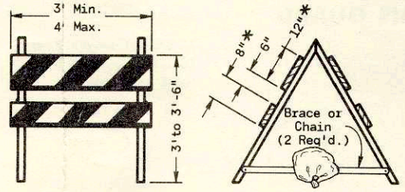


ALTERNATE TYPE INSTALLATION (RIGID)

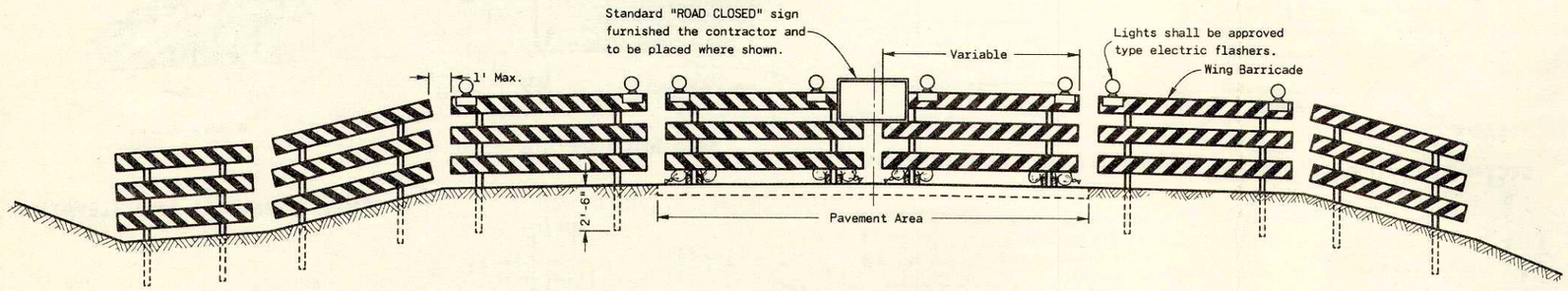


ALTERNATE TYPE INSTALLATION (DEMOUNTABLE)

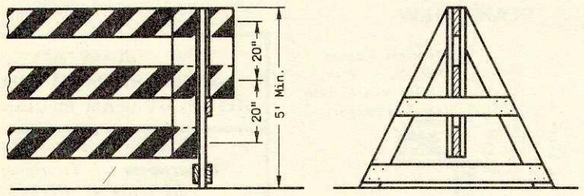
CLASS I BARRICADES



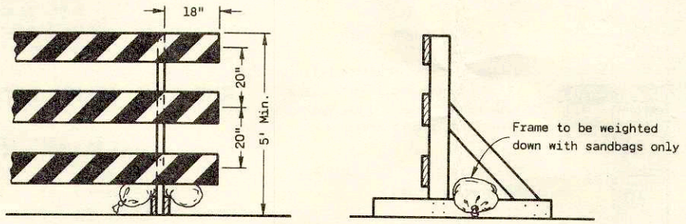
CLASS II BARRICADE



TYPICAL INSTALLATION SHOWING FIXED AND RIGID BARRICADES

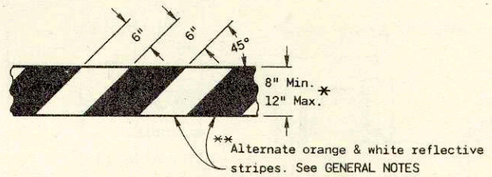


ALTERNATE TYPE INSTALLATION (DEMOUNTABLE)



ALTERNATE TYPE INSTALLATION (RIGID)

CLASS III BARRICADES



TYPICAL RAIL

Applies to all Classes &
Alternate Types of Barricades

GENERAL NOTES

The contractor shall provide and maintain Barricades as shown on this drawing and as required by the Standard Specifications and the applicable Special Provisions.

CLASS I OR CLASS II BARRICADES:
Class I or II Barricades shall 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.

CLASS III BARRICADE:
Class III Barricades shall be of variable length as indicated, and long barricades shall be assembled from these units. The Class III Barricade is the type normally required for major operations, where the barricade will remain in place for extended periods. Class III 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 III 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 white.

MATERIAL AND FABRICATION:
Barricades may be constructed of wood, metal or other suitable material.
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 or other suitable material 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. Fixed Barricades shall be break-away design.

STRIPES:
All Barricade Rails shall have alternate 6 inch orange and 6 inch white stripes at a 45° angle. If the Barricade is to be used at night, the entire area of orange and white stripes shall be reflectorized, to meet Wisconsin MUTCD requirements. The predominant color for other Barricade Components shall be white.

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 slope downward toward the roadway.

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

MEASUREMENT AND 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.

* Nominal dimensions when barricade is constructed of lumber.

** Alternate black & white stripes may be used until May 1, 1975 but black & white and orange & white Barricades may not be mixed on the same project.

CONSTRUCTION BARRICADE

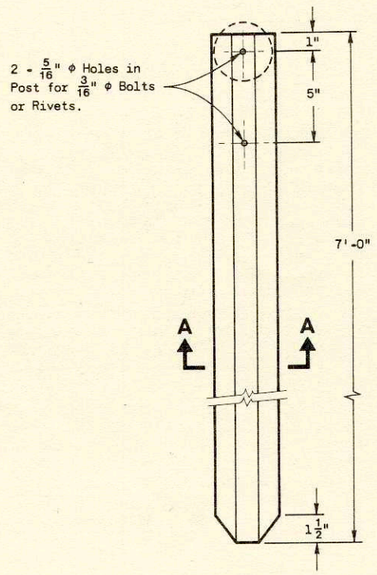
State of Wisconsin
Department of Transportation
Division of Highways

RECOMMENDED FOR APPROVAL:
8-1-74 DATE — CHIEF of FACILITIES DEVELOPMENT

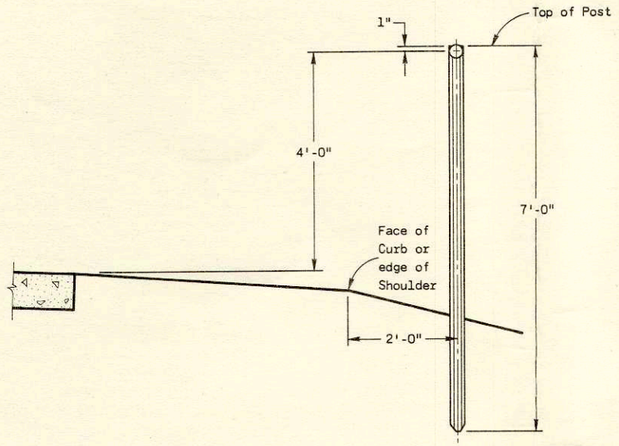
APPROVED
8-1-74 DATE — STATE HIGHWAY ENGINEER

S.D.D. 15C 1-3

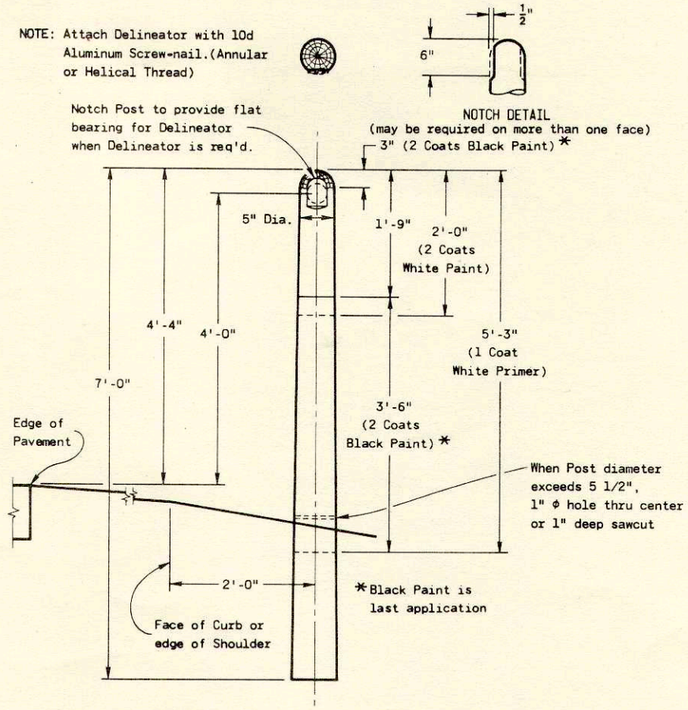
S.D.D. 15C1-3



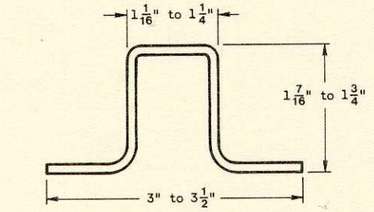
DELINEATOR POST

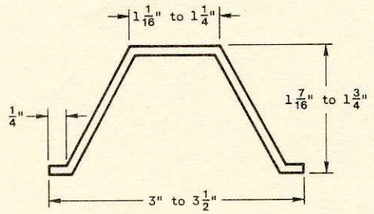


TYPICAL INSTALLATION OF DELINEATOR POSTS

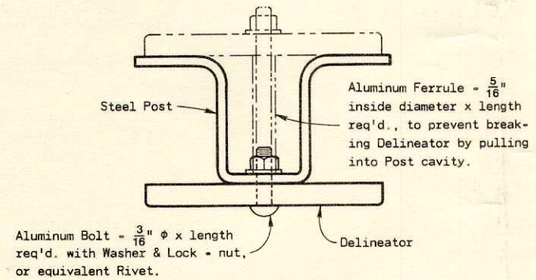


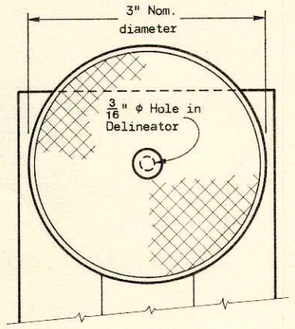
MARKER POST





SECTION A-A
(Minimum weight 2.0 lbs. per ft.)





DELINEATOR MOUNTING DETAIL ON DELINEATOR POST

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.

Detailed requirements for Delineators,not shown on this drawing shall conform to Section 633 of the Standard Specifications and the WISCONSIN MANUAL OF TRAFFIC CONTROL DEVICES. The reflectors in the Delineators shall be clear.

When the cross sectional area of the Marker Post measured at the ground line exceeds 24 square inches ($5\frac{1}{2}$ inch diameter) the post shall be weakened near the ground line by either drilling a 1 inch diameter hole transversely through the center of the post or by making a transverse saw cut to a depth of approximately 1 inch on the side of the post facing traffic.

DELINEATOR POSTS
MARKER POSTS AND DELINEATORS

State of Wisconsin
Department of Transportation
Division of Highways

RECOMMENDED FOR APPROVAL:
8-27-74 DATE — CHIEF of FACILITIES DEVELOPMENT

APPROVED
8-27-74 DATE — STATE HIGHWAY ENGINEER

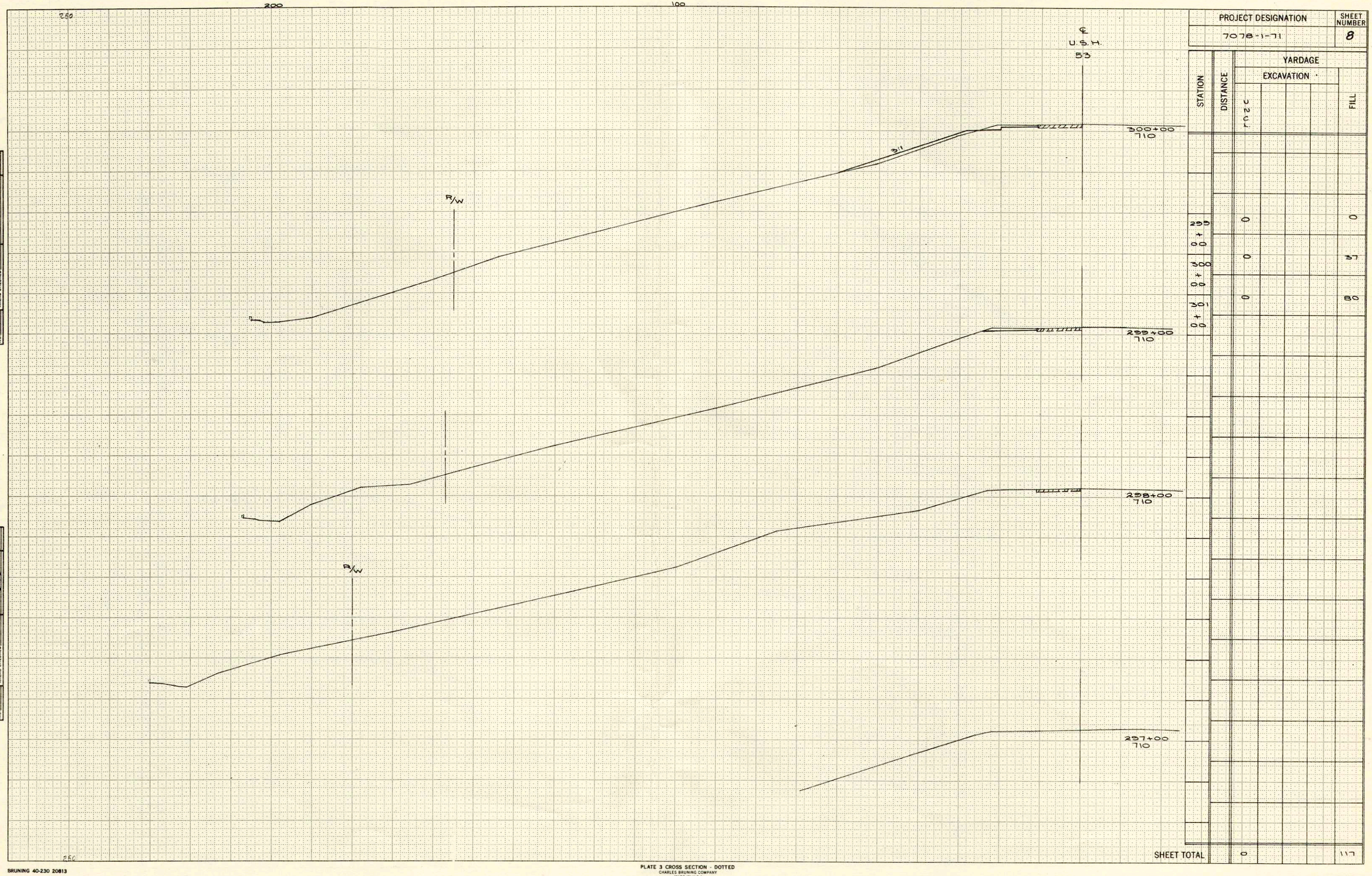
S.D.D. 15 A2-1

S.D.D. 15 A2-1

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
NOTE BOOK		
AREAS CHECKED		
NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED	S.S.B.	2-76
PLOTTED	J.K.S.	"
TEMPLATE	J.K.S.	"
NOTE BOOK	J.K.S.	"
AREAS CHECKED		
NO.		

PROJECT DESIGNATION	SHEET NUMBER
7078-1-71	8



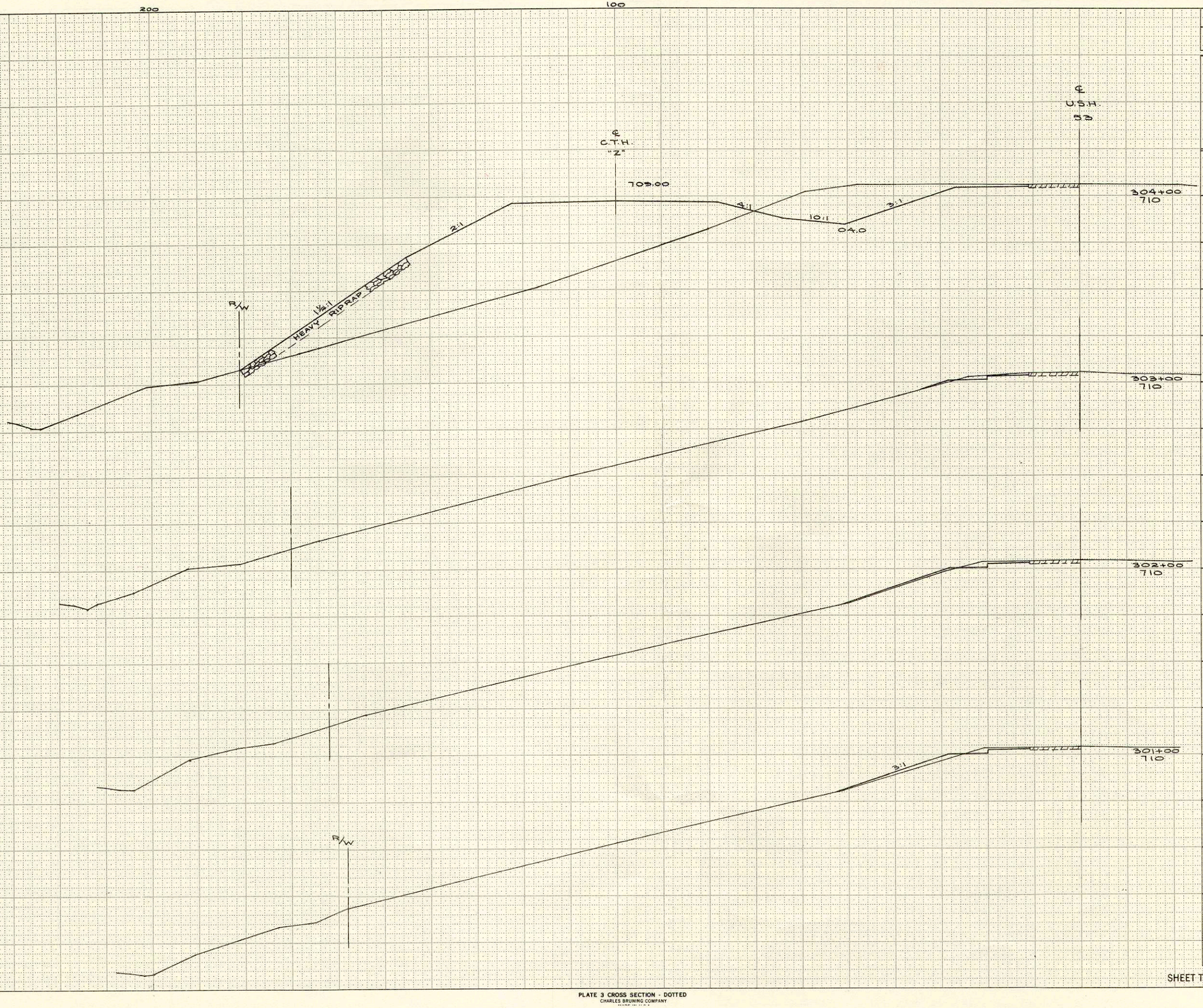
STATION	DISTANCE	YARDAGE EXCAVATION ROCK	YARDAGE EXCAVATION FILL
300+00			
	100	0	0
299+00			
	100	0	37
298+00			
	100	0	80
297+00			
SHEET TOTAL		0	117

BRUNING 40-230 20813

PLATE 3 CROSS SECTION - DOTTED
CHARLES BRUNING COMPANY
MADE IN U.S.A.

200 100

PROJECT DESIGNATION	SHEET NUMBER
7078-1-71	8.1



STATION	DISTANCE	YARDAGE EXCAVATION (CUT)	YARDAGE FILL
301+00			
	0		80
302+00			
	0		48
303+00			
	304		1,648
303+75			
	841		4,167
305+00			
SHEET TOTAL	1,145		5943

SURVEY NOTE BOOK NO. | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED JRS

PLATE 3 CROSS SECTION - DOTTED

CHARLES BRUNING COMPANY

BRUNING 40-230 20813

200 100

PROJECT DESIGNATION: 7078-1-71 | SHEET NUMBER: 8.2

STATION	DISTANCE	YARDAGE EXCAVATION	YARDAGE FILL
305 + 00			
	398		1,324
306 + 00			
	148		176
307 + 00			
	15		0
308 + 00			
	0		0
SHEET TOTAL	561		1,500

℄ C.T.H. "Z"

R/W

308+00 710

307+00 710

306+00 710

305+00 710

℄ U.S.H. 53

NEW ℄ "Z"

EXIST. "Z"

699.5

4:1 4:1 10:1 2½:1

97.0

NEW ℄ "Z"

EXIST. "Z"

706.00

4:1 10:1 2½:1

02.0

2:1

R/W

FINAL SURVEY — NOTE BOOK NO. — SURVEYED — PLOTTED — TRACED — AREAS — AREAS CHECKED — BY — DATE

ORIGINAL SURVEY — NOTE BOOK NO. — SURVEYED 11-11-71 — PLOTTED 11-14-71 — TRACED — AREAS — AREAS CHECKED — BY — DATE

BRUNING 40-230 20813

PLATE 3 CROSS SECTION - DOTTED
CHARLES BRUNING COMPANY
MADE IN U.S.A.

PROJECT DESIGNATION	SHEET NUMBER
7085-1-71	8.3

STATION	DISTANCE	YARDAGE EXCAVATION	YARDAGE FILL
		110	
435 + 00			20
436 + 00		120	40
437 + 00			40
438 + 00		100	40
439 + 00			40
440 + 00			40
441 + 00			40
442 + 00			40
443 + 00		170	45
444 + 00		220	
		400	55
445 + 00		440	30
446 + 00		380	0
447 + 00		290	0
448 + 00			
SHEET TOTAL		2230	430

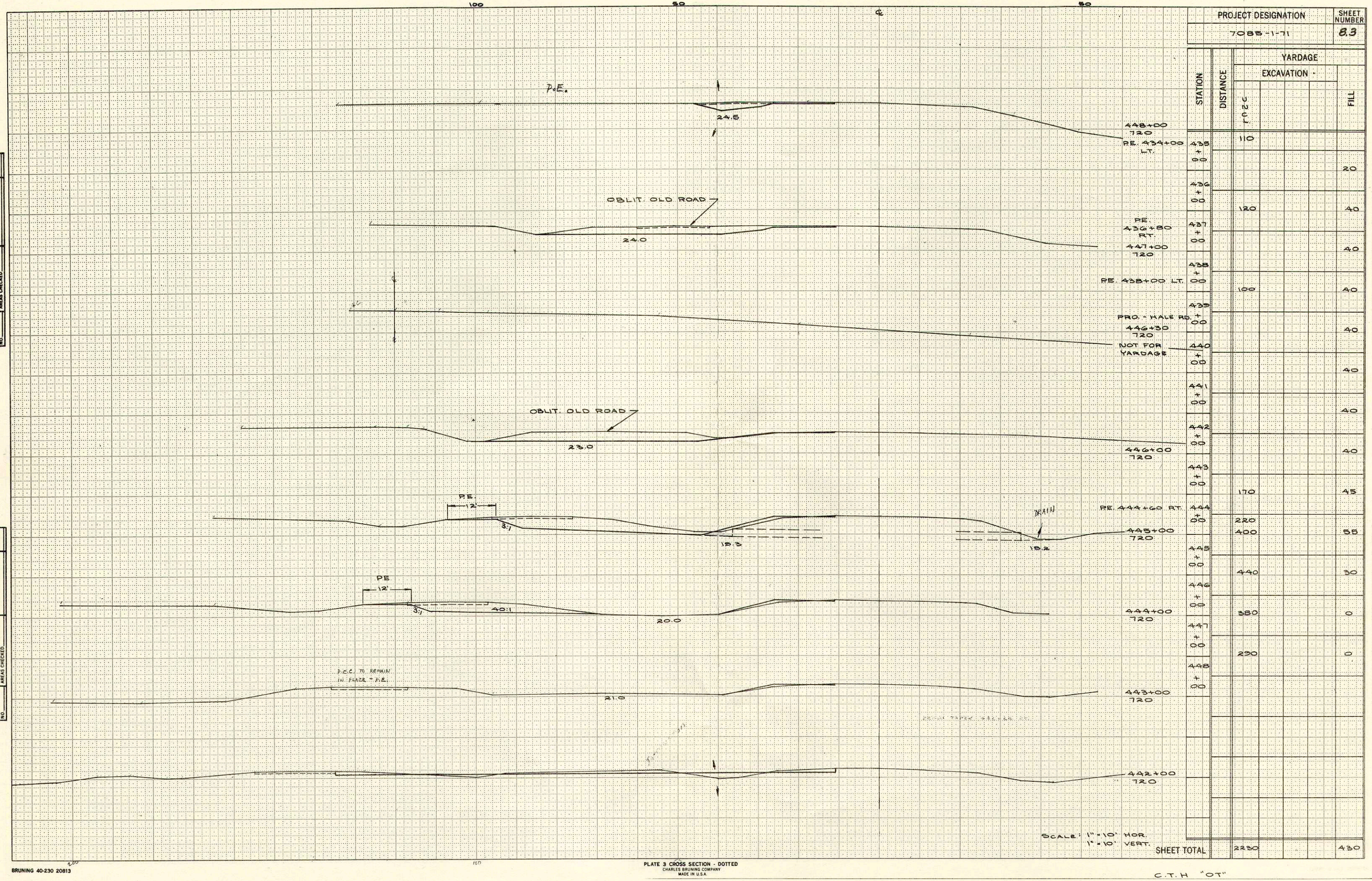
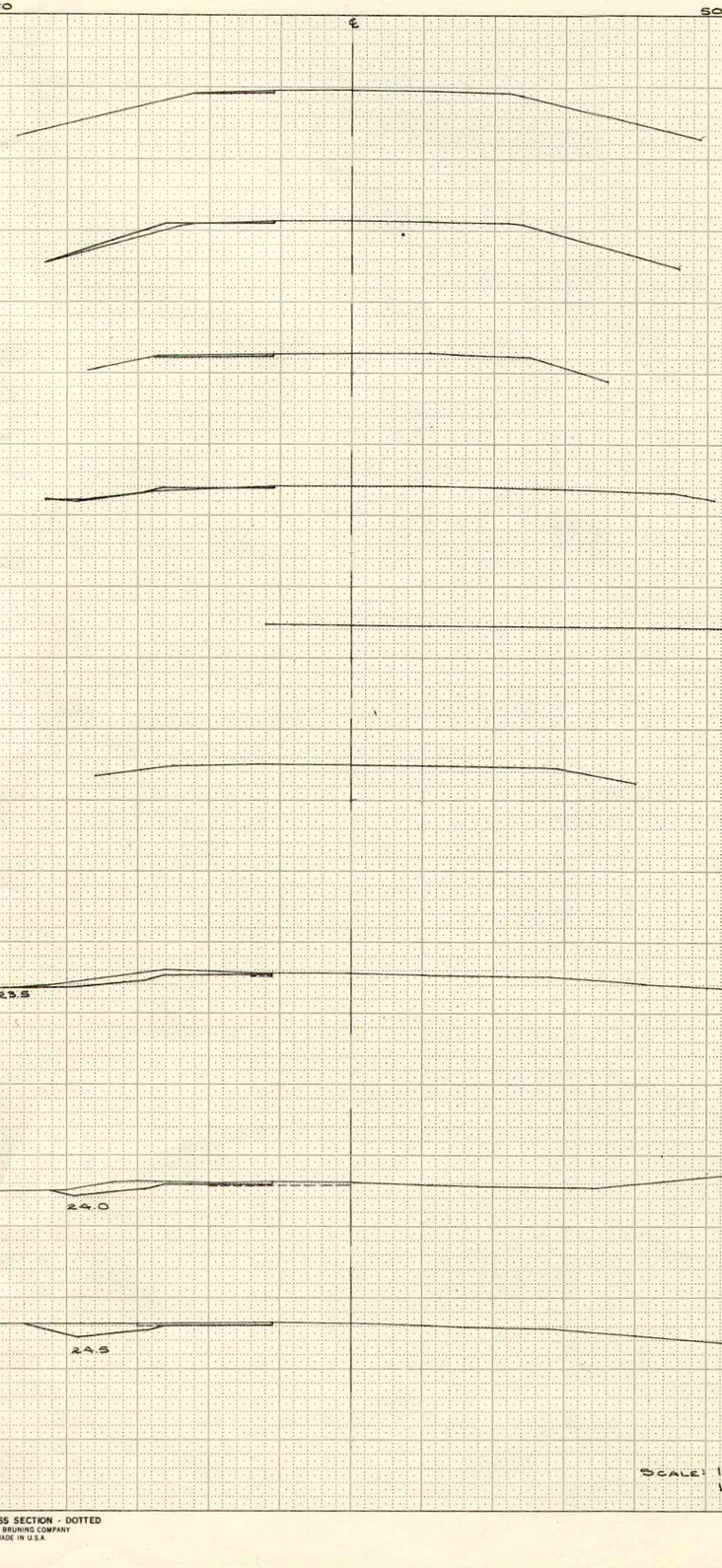


PLATE 3 CROSS SECTION - DOTTED
CHARLES BRUNING COMPANY
MADE IN U.S.A.

BRUNING 40-230 20813

C.T.H "OT"

PROJECT DESIGNATION	SHEET NUMBER
7085-1-71	8.4



STATION	DISTANCE	YARDAGE EXCAVATION	YARDAGE FILL
448 + 00			
	150		0
449 + 00			
	140		0
450 + 00			
	130		0
451 + 00			
	60		0
452 + 00			
			10
453 + 00			
			10
454 + 00			
			20
455 + 00			
			20
456 + 00			
SHEET TOTAL	520		60

SCALE: 1" = 10' HOR.
1" = 10' VERT

C.T.H. "OT"

FINAL SURVEY — NOTE BOOK NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS CHECKED — BY — DATE

ORIGINAL SURVEY — NOTE BOOK NO. — SURVEYED: JES 8" 4-25 — PLOTTED: JES 5-25 — TEMPLATE — AREAS CHECKED — BY — DATE

PLATE 3 CROSS SECTION - DOTTED
CHARLES BRUNING COMPANY
MADE IN U.S.A.