

INDEX OF SHEETS

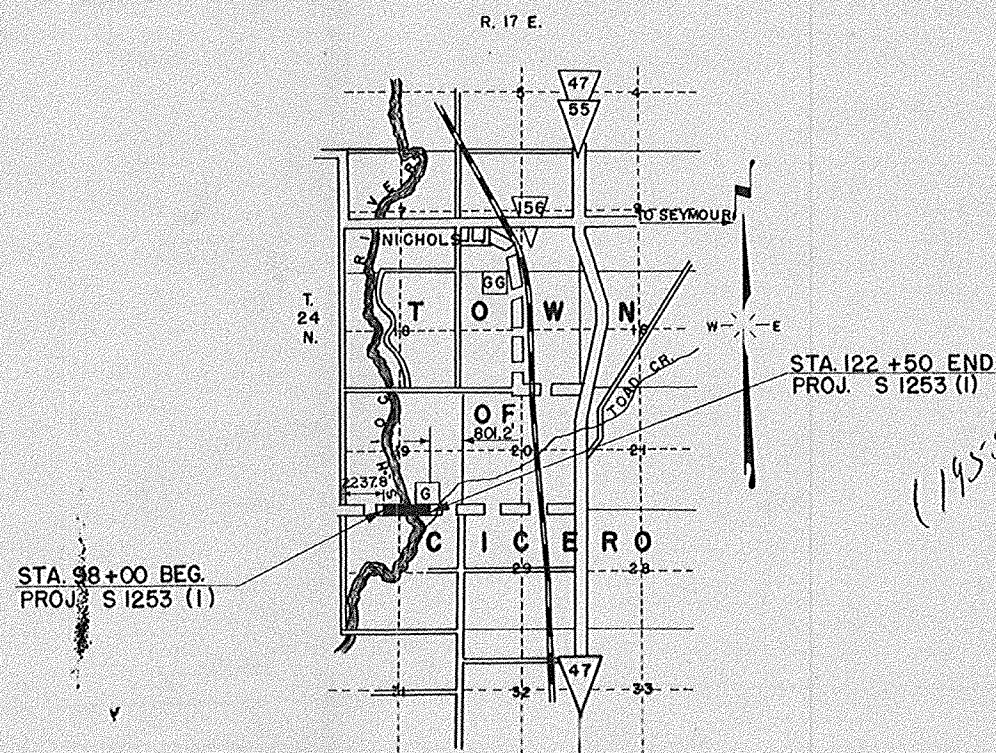
SHEET NO. 1	TITLE
SHEET NO. 2	TYPICAL CROSS SECTIONS
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SHEET NO. 2	MISCELLANEOUS QUANTITIES
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STATE OF WISCONSIN STATE HIGHWAY COMMISSION OF WISCONSIN

PLAN AND PROFILE OF PROPOSED S. T. H. 187 - S. T. H. 47 ROAD (SHIOC RIVER BRIDGE & APPROACHES) OUTAGAMIE C.T.H. "G" COUNTY PROJECT S 1253(1)

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.



CONVENTIONAL SIGNS

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

LAYOUT

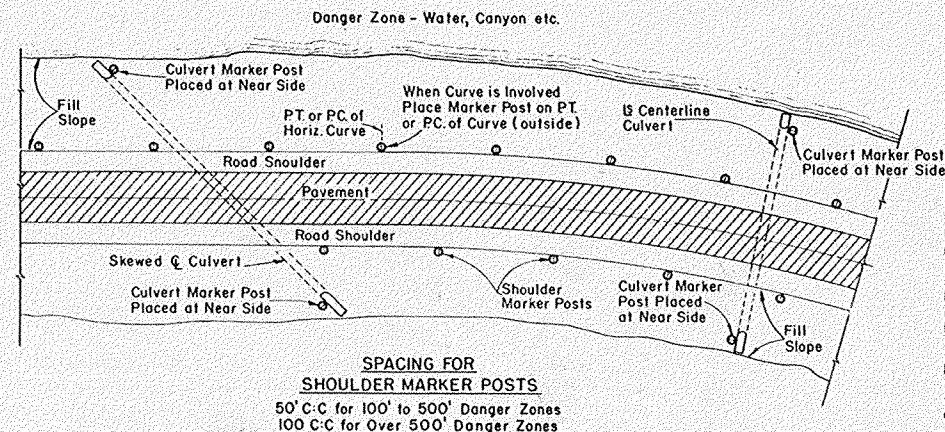
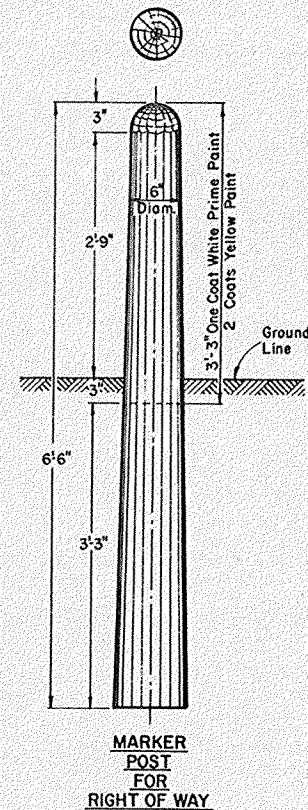
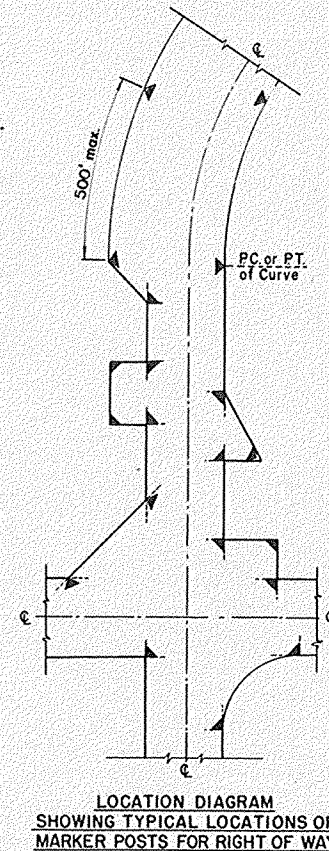
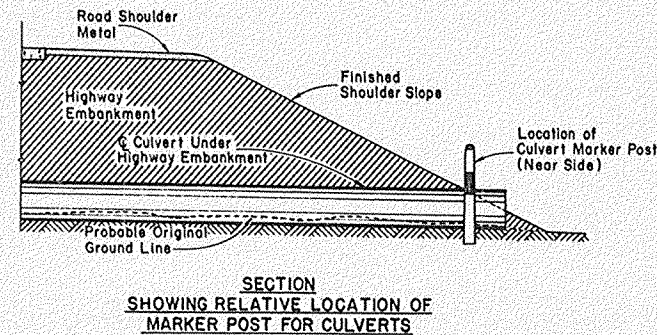
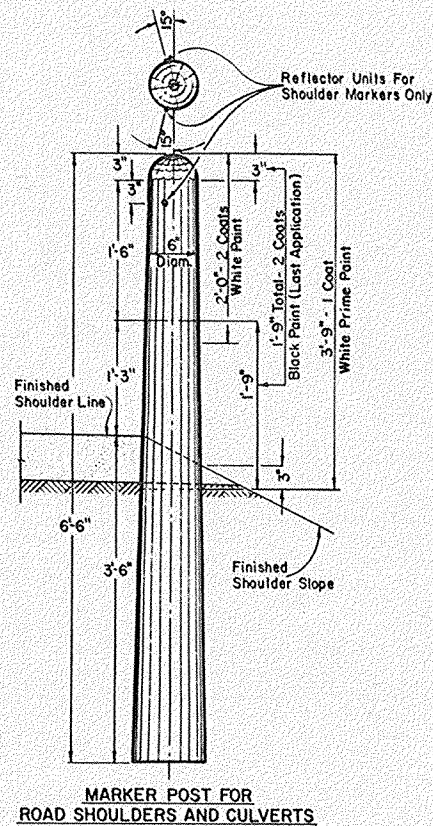
SCALE 1 MILE

TOTAL NET LENGTH OF CENTERLINE = 0.464 MI.

COUNTY AND HIGHWAY	ROUTE AND SECTION	CLASS AND AGREEMENT	FEDERAL DIVISION OFFICE	SHEET NUMBER	TOTAL SHEETS
44.6	1253.0	STATE FEDERAL	11.1	WIS. 4N	1 16

STATE HIGHWAY COMMISSION OF WISCONSIN MADISON, WIS.		DEPARTMENT OF COMMERCE BUREAU OF PUBLIC ROADS	
SURVEYOR N.L.C.	NOTE BOOK 10055	APPROVED: [Signature] DATE	
DIVISION COMPUTER R.E.S.	M. V. CHECKER	DISTRICT ENGINEER	
DIVISION CHECKER C.P.K.	CORRECT	DATE	
CORRECT		DISTRICT ENGINEER	
DATE 2/18/55	[Signature]	DATE	
RECOMMENDED FOR APPROVAL		DISTRICT ENGINEER	
DATE 2-29-55	[Signature]	DATE	
APPROVED:		DISTRICT ENGINEER	
DATE 3/1/55	[Signature]	DATE	
FIELD INSPECTION BY:		DATE	

S1253(1)



LOCATION DIAGRAM SHOWING RELATIVE LOCATIONS OF SHOULDER MARKER POSTS AND CULVERT MARKER POSTS

MARKER POSTS FOR ROAD SHOULDERS AND CULVERTS

GENERAL NOTES:

Details of Construction not shown on this drawing shall conform to the pertinent requirements of the Standard Specifications Sections 2523, 4124 and 4125 and the applicable Special Provisions.

All posts for Road Shoulder Markers, Culvert Markers and Right of Way Markers are identical except for Pointing and Reflector Units. All Posts shall be round and untreated and shall be either Northern White Cedar, Southern Yellow Pine, Norway Pine, White Pine or Jack Pine.

MARKER POSTS FOR RIGHT OF WAY

Right of Way Marker Posts shall be erected in advance of Grading Operations. Posts may be shaped and painted prior to erection. Any damaged areas occurring to paint surface during erection or other subsequent operations must be repainted prior to acceptance.

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 shall be staked in the field by the Engineer.

Reflector Units for Right of Way Marker Posts will not be required.

REFLECTOR UNITS

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. Reflector Units shall be installed in Road Shoulder Marker Posts only.

MARKER POST FOR RIGHT OF WAY

BID ITEMS

No. 2523-3 Marker Posts Each

No. 2523-4 Marker Posts for Right of Way Each

MARKER POSTS & MARKER POSTS FOR RIGHT OF WAY

STATE HIGHWAY COMMISSION OF WISCONSIN

RECOMMENDED FOR APPROVAL

4/6/54
DATE

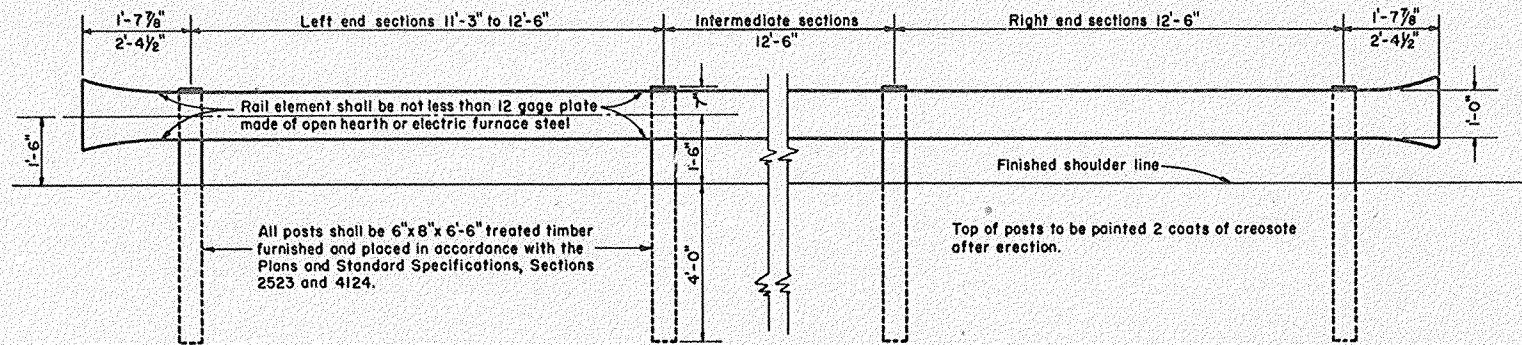
APPROVED:

11/22/54
DATE

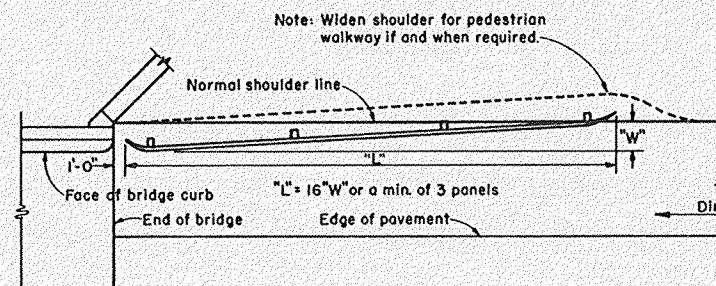
J. L. Pelt
ENGINEER OF DESIGN

E. L. Rullman
STATE HIGHWAY ENGINEER

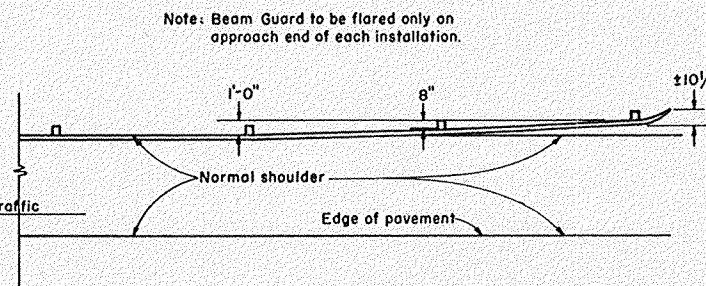
PLATE NO. 7-13.2.



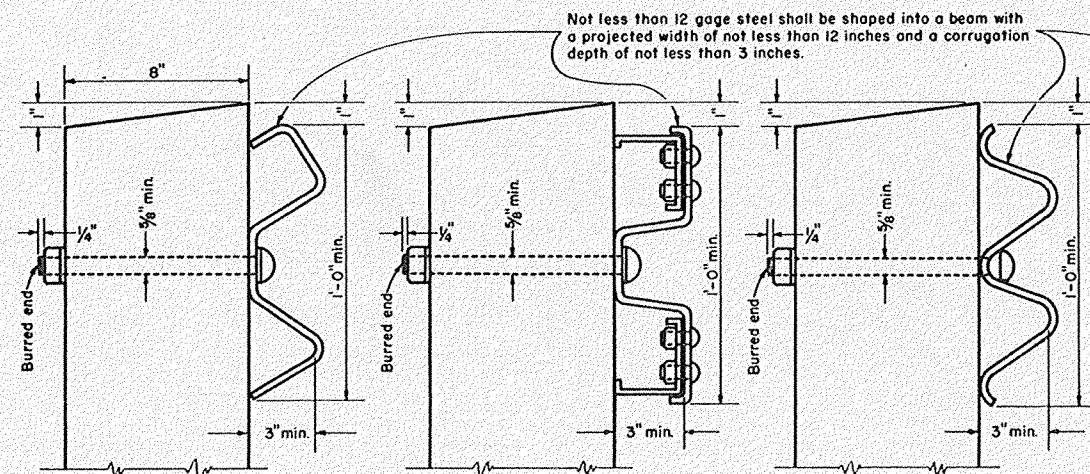
FRONT ELEVATION



LOCATION DIAGRAM FOR BRIDGE APPROACHES

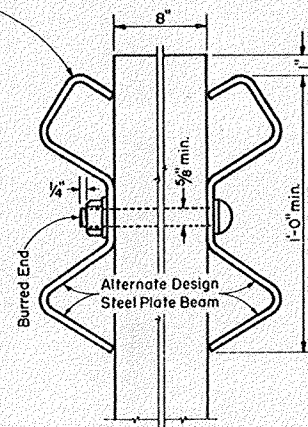


LOCATION DIAGRAM FOR INTERMEDIATE SECTIONS



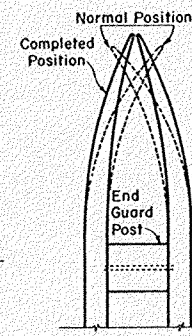
SIDE ELEVATIONS

ALTERNATE DESIGNS-STEEL PLATE BEAM GUARD (CLASS "B")



SIDE ELEVATION

ALTERNATE DESIGN - STEEL PLATE BEAM (MEDIAN) GUARD (CLASS "B")



PLAN VIEW
TERMINAL SECTIONS

GENERAL NOTES

Details of construction not shown on this drawing shall conform to the pertinent requirements of the Standard Specifications and applicable Special Provisions. The Steel Plate Beam Guard shall consist of plate made of open hearth or electric furnace steel.

Plates shall be blanked to proper shape, fabricated and ready for assembly when received in the field. The plates shall be true to plan dimensions and of uniform section. Warped or deformed plates will be rejected. The edges of the plates shall be rolled or rounded so that they present no sharp edges. All connections and splices shall be formed with flat round headed bolts, or similar detail, so that no appreciable projection will be presented on the traffic side of the guard. The rail element shall be spliced by lapping in the direction of traffic or by butt joint with splice plate. The holes in the plate near the post shall be slotted to facilitate erection and to make provision for expansion and contraction. Plate ends in lap splices or plate ends and splice plate in butt splices shall make contact throughout the entire area of the splice.

TESTS

The elongation of a 2 inch specimen of the steel plate used in the rail element shall be not less than 12% when tested in tension.

The minimum tensile strength of the rail element shall, when tested in conjunction with splices and end connections, be 50,000 pounds. The rail element when loaded as a simple beam, freely supported at each end on 12'-6" centers, shall support a concentrated load of 2,000 pounds, applied at the center point, with a maximum deflection of 3 1/2 inches and shall support a concentrated load of 2,400 pounds, tested in like manner, with a maximum deflection of 5 1/2 inches.

PAINTING

SHOP COAT

Promptly following fabrication, the plates for steel rail element shall be thoroughly cleaned and shall be painted with a Red Lead Primer, or if an alternate of Red Lead Oxide Rust Inhibitive Primer or equivalent is used, the Engineer's prior approval shall be obtained. All parts, hardware and appurtenant fittings for the complete Beam Guard assembly shall likewise be painted when not furnished as galvanized.

FIELD COAT

Following erection, the steel rail elements and all parts, hardware and appurtenant fittings shall be painted in accordance with the Standard Specifications for Aluminum Paint, Section 4125.

Any damaged areas occurring to the shop coat during transportation or erection shall be cleaned and painted with an approved Rust Inhibitive Primer prior to any field coat painting.

Where the steel plate elements make contact with post mountings etc. all such areas which are impossible to paint after erection, shall be painted prior to erection.

All threaded portions of fittings and fasteners and cut ends of bolts shall be painted as specified or as directed by the Engineer.

ALTERNATE DESIGNS

Manufacturers may submit to the Engineer, for approval, designs for "Steel Plate Beam Guard" other than those shown on this drawing, providing that such alternate designs shall conform to the same physical tests and inspection requirements prescribed on this drawing for "Class 'B' Steel Plate Beam Guard."

MEASUREMENT & PAYMENT

The items of "Class 'B' Steel Plate Beam Guard" and "Class 'B' Steel Plate Beam (Median) Guard" shall be measured and paid for at the contract unit price per linear foot, measured in place by length in linear feet from end to end of Steel Plate or Steel Plates, which price shall be full compensation for furnishing all materials and performing all installation work to completion in accordance with the Plans and the Standard Specifications, Sections 2523 and 4124.

BID ITEMS

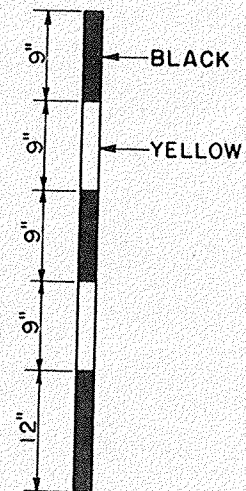
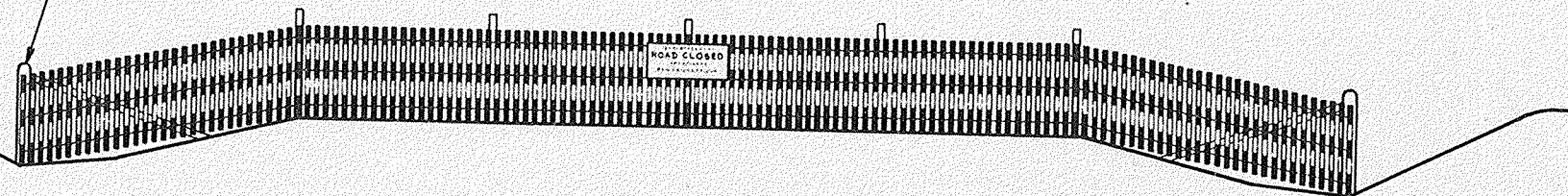
No. 2523-6 Steel Plate Beam Guard (Class "B")..... Lin. Ft.
No. 2523-7 Steel Plate Beam (Median) Guard (Class "B")..... Lin. Ft.

CLASS "B"	
STEEL PLATE BEAM GUARD & STEEL PLATE BEAM (MEDIAN) GUARD	
STATE HIGHWAY COMMISSION OF WISCONSIN	
RECOMMENDED FOR APPROVAL:	
12-21-53 DATE	J. A. Pitt ENGINEER OF DESIGN
12-24-53 DATE	Z. L. Rustinger STATE HIGHWAY ENGINEER
PLATE NO. 7-24.1	

SECTION OF SNOW FENCE TO BE PAINTED ALTERNATELY BLACK AND YELLOW AS SHOWN BELOW.
 LENGTH TO BE SUFFICIENT TO REACH FROM TOE OF THE BACKSLOPE TO TOE OF THE BACKSLOPE.
 PROVIDE SUFFICIENT NUMBER OF INTERMEDIATE POSTS TO ADEQUATELY SUPPORT THE FENCE.

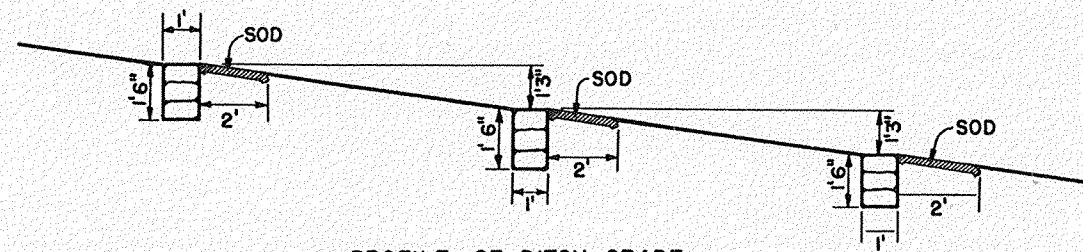
STANDARD "ROAD CLOSED" SIGN (W.H.C.- NO. R-15) TO BE ERECTED ON FENCE AT THE TOP ON
 THE CENTERLINE OF ROAD. SIGN WILL BE FURNISHED BY COMMISSION.

POST SECURELY BRACED

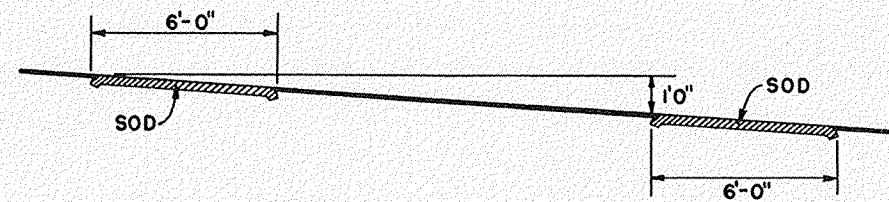


DETAIL SHOWING METHOD OF STRIPING
 FOR 4' SNOW FENCE.

STATE HIGHWAY COMMISSION OF WISCONSIN	
CONSTRUCTION BARRICADE	
RECOMMENDED FOR APPROVAL:	
<i>Frank Crane</i> DESIGN ENGINEER	
<i>M. Blum</i> CONSTRUCTION ENGINEER	
APPROVED:	
DRAWN <i>HM</i> CHECKED <i>WHG</i>	OCT. 1, 1945 DATE <i>E. G. F. Reeligen</i> STATE HIGHWAY ENGINEER

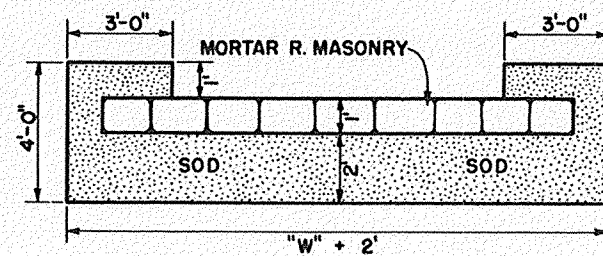


PROFILE OF DITCH GRADE

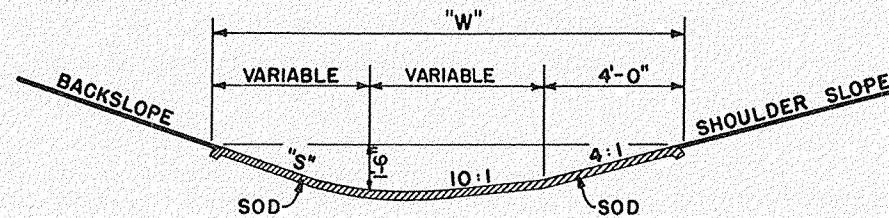


PROFILE OF DITCH GRADE

NOTE: NUMBER REQUIRED WILL BE DETERMINED BY VERTICAL SPACING.



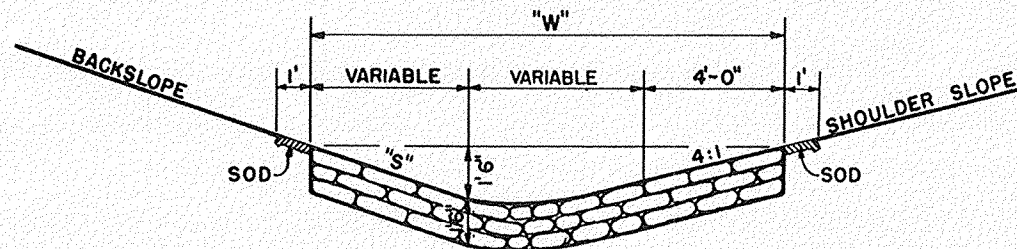
PLAN VIEW SHOWING SOD



SECTION

SOD DITCH CHECKS

QUANTITIES		
"S"	"W"	EACH SQ. YD.
2:1	12'	8
3:1	13.5'	9
4:1	15'	10



SECTION

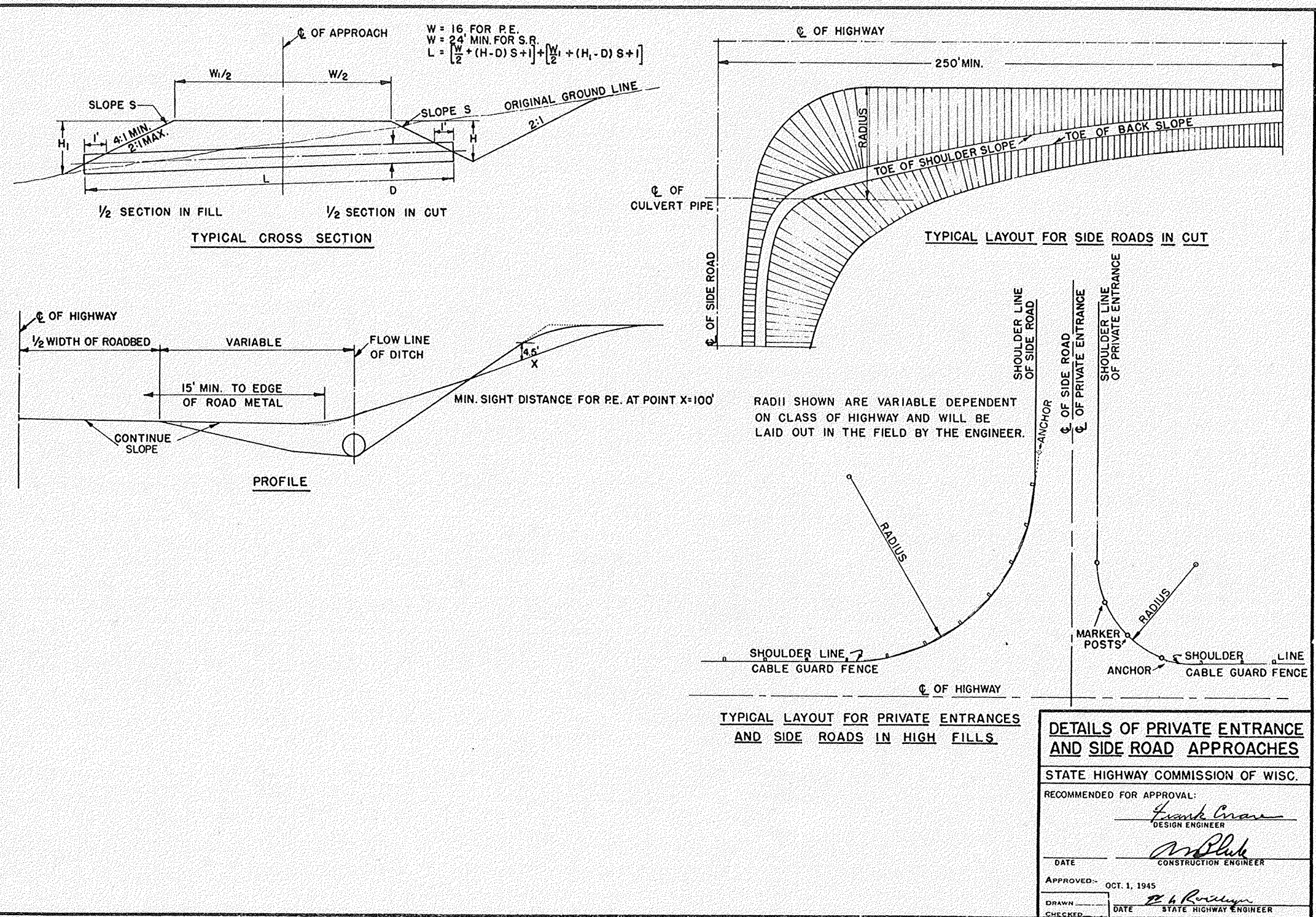
MORTAR RUBBLE MASONRY

QUANTITIES			
"S"	"W"	SOD SQ. YD.	EACH CU. YD.
2:1	12'	4.0	0.67
3:1	13.5'	4.33	0.75
4:1	15'	4.67	0.83

CONSTRUCTION NOTES

DETAILS OF CONSTRUCTION NOT SHOWN SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DITCH CHECKS	
MORTAR RUBBLE MASONRY & SOD	
STATE HIGHWAY COMMISSION OF WISC.	
RECOMMENDED FOR APPROVAL:	
DATE:	<i>Frank Crane</i> DESIGN ENGINEER
APPROVED:	<i>W. Blum</i> CONSTRUCTION ENGINEER
DRAWN DIV. 9	<i>E. L. Rottiers</i> STATE HIGHWAY ENGINEER
CHECKED N.F.C.	



ESTIMATE OF QUANTITIES

CONTRACT NO. L&2

PROJECT	SHEET NO.	TOTAL SHEETS
51253(1)	2	16

THIS PROJECT IS TO BE EXECUTED UNDER THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OF THE STATE HIGHWAY COMMISSION OF WISCONSIN — EDITION OF 1951
APPROVED JAN 23, 1952. FEDERAL AID REQUIRED CONTRACT PROVISIONS APPROVED JAN 31, 1953, AND SPECIAL PROVISIONS AS ATTACHED TO PROPOSALS.

CONTRACT NO.	STATION TO STATION		NET LENGTH OF CENTER LINE	CLEARING	GRUBBING	EXCAVATION			SAND GRAVEL FILL	FINISHING ROADWAY	OBLITERATING OLD ROAD	GRAVEL OR CRUSHED STONE		CULVERT PIPE				MORTAR RUBBLE DITCH CHECKS	RIP-RAP	GUARD FENCE		MARKER POSTS FOR R/W	REMOVE OLD BRIDGE STA.	CONC. MASONRY BRIDGES	BAR STEEL REINF. BRIDGES	STRUCT. CARBON STEEL	SHEET LEAD	SHEET ZINC	TREATED LUMBER & TIMBER	UNTREATED TIMBER PILING		TREATED TIMBER PILING		FLOOR DRAINS	BITUM. MAT. FOR PRIME COAT	BITUM. ROAD MIX SURF.	AGG. FOR BIT. ROAD MIX SURF. (AND SHOULDERS)	BITUM. MAT. FOR SURFACE COURSE	TOPSOIL		FERTILIZER	SEEDING																																							
						BASE COURSE	18"	16"				20"	24"	STEEL PLATE BEAM TYPE "B"	MARKER POSTS	MARKER POSTS FOR R/W	REMOVE OLD BRIDGE STA.			CONC. MASONRY BRIDGES	BAR STEEL REINF. BRIDGES									STRUCT. CARBON STEEL	SHEET LEAD	SHEET ZINC	TREATED LUMBER & TIMBER						TEST 20060'-0"	DELIVER			DRIVEN	DELIVER	DRIVEN	FLOOR DRAINS	BITUM. MAT. FOR PRIME COAT	BITUM. ROAD MIX SURF.	AGG. FOR BIT. ROAD MIX SURF. (AND SHOULDERS)	BITUM. MAT. FOR SURFACE COURSE	TOPSOIL	FERTILIZER	SEEDING																												
																																																						UNC.	BORROW	FOR STRUCT. (DB)	16"	20"	24"	MARKER POSTS	MARKER POSTS FOR R/W	REMOVE OLD BRIDGE STA.	CONC. MASONRY BRIDGES	BAR STEEL REINF. BRIDGES	STRUCT. CARBON STEEL	SHEET LEAD	SHEET ZINC	TREATED LUMBER & TIMBER	TEST 20060'-0"	DELIVER	DRIVEN	DELIVER	DRIVEN	FLOOR DRAINS	BITUM. MAT. FOR PRIME COAT	BITUM. ROAD MIX SURF.	AGG. FOR BIT. ROAD MIX SURF. (AND SHOULDERS)	BITUM. MAT. FOR SURFACE COURSE	TOPSOIL	FERTILIZER	SEEDING
ITEM NO.	UNIT	LIN. FT.	N. DIAM.	N. DIAM.	C.Y.	C.Y.	C.Y.	C.Y.	STA.	STA.	C.Y.	C.Y.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	C.Y.	C.Y.	LIN. FT.	EACH	EACH	L.S.	C.Y.	LB.	LB.	LB.	LB.	MBM	L.S.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	EA. H.	GAL.	SQ. YD.	C.Y.	GAL.	SQ. YD.	CWT.	SQ. YD.																																								
1	108+67.54 - 109+72.46	104.92					215	30															1414	24010	48830	120	24	3.53	1	1440	1440	900	720	4																																															
2	98+00 - 122+50	2345.08	150	150	7800	10000			24		2600		140				10	150	168	40																					25	13900																																							
TOT	98+00 - 122+50	2450.00	150	150	7800	10000	215	30	24		2600		140				10	150	168	40			1414	24010	48830	120	24	3.53	1	1440	1440	900	720	4	1600	5800	550	8100		25	13900																																								

FROM BRIDGE PLAN

UNCLASSIFIED EXCAVATION	
CROSS SECTION TOTAL	2978 C.Y.
CHANNEL CHANGE	4800 C.Y.
UNDISTRIBUTED	22 C.Y.

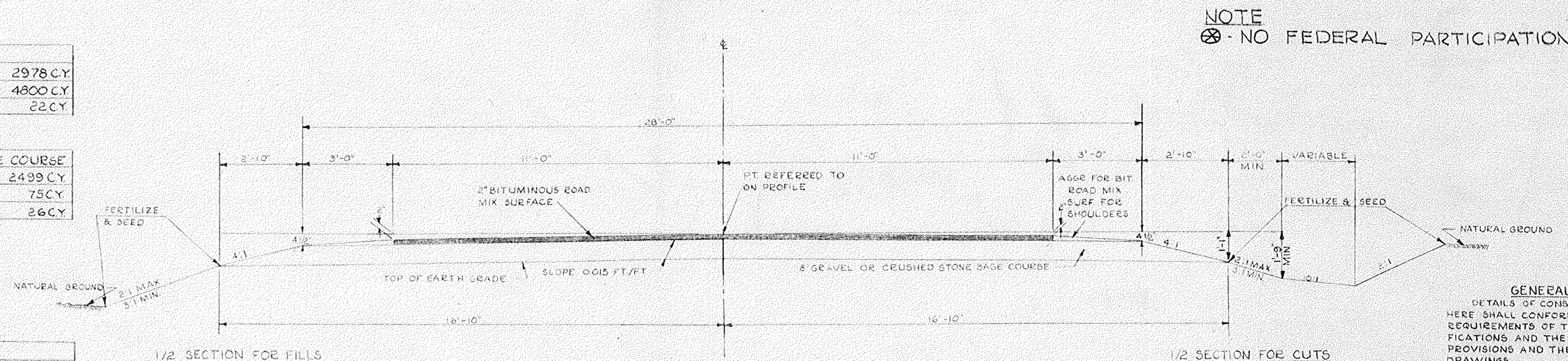
GRAVEL OR CR. STONE BASE COURSE	
CENTERLINE	2499 C.Y.
PRIV. ENT.	75 C.Y.
UNDISTRIBUTED	26 C.Y.

CULVERT PIPE	
5-18" x 28' FOR P.E.'S	140 LN. FT.

AGG. FOR BITUMINOUS ROAD MIX SURF.	
FOR BIT. RD. MIX SURF.	470 C.Y.
FOR SHOULDERS	80 C.Y.

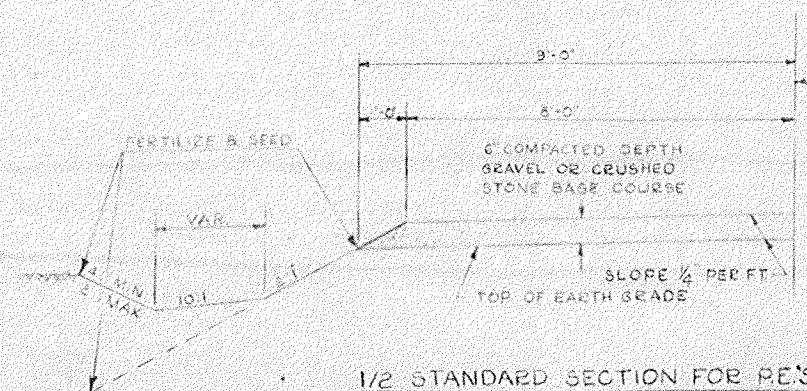
MARKER POSTS FOR SHOULDER DELIN		
LOCATION	SPACING	NO REQ'D
105+50 - 108+00 L&R	50'	12
110+00 - 112+50 L&R	50'	12
118+00 - 122+50 L&R	50'	12

STEEL PLATE BEAM GUARD FENCE		
STA TO STA	LOCATION	LENGTH
WEST BRIDGE APPR.	L	42'
"	R	42'
EAST BRIDGE APPR.	L	42'
" " "	R	42'



GRAVEL OR CRUSHED STONE BASE COURSE = 106.58 CY PER STA (INCLUDES 40% FOR COMPACTION)
AGGREGATE FOR SHOULDERS = 3.33 CY PER STA (INCLUDES 80% FOR COMPACTION)
AGGREGATE FOR BIT. ROAD MIX SURF. = 130.2 CY PER STA (INCLUDES 40% FOR COMPACTION)

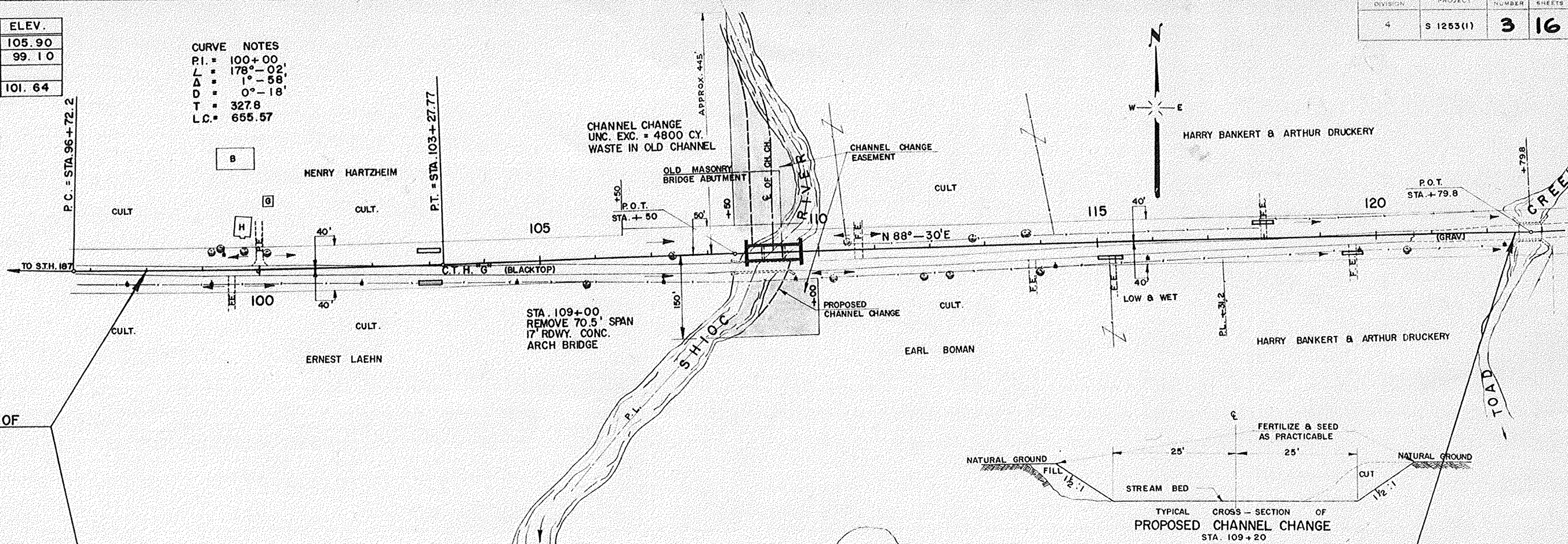
TYPICAL FINISHED SECTION



32' RDWY — 22' BIT PAV'T.
MISCELLANEOUS QUANTITIES
CONSTRUCTION DETAILS
SCALE - VARIABLE

BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
1	99+75	SPIKE IN 10" APPLE 66'LT.	105.90
2	109+28	" IN 3" CLUSTER OF ASH 57'RT.	99.10
3	122+59	PAINT MARK ON N.W. COR. OF BRIDGE	101.64

CURVE NOTES
P.I. = 100+00
L = 178'-02"
Δ = 1°-56'
D = 0°-18'
T = 327.8
L.C. = 655.57



NET LENGTH OF CENTERLINE		
STATION TO STATION	LIN. FT.	
108+67.54	109+72.46	104.92
98+00	122+50	2345.08
TOTAL		2450.00

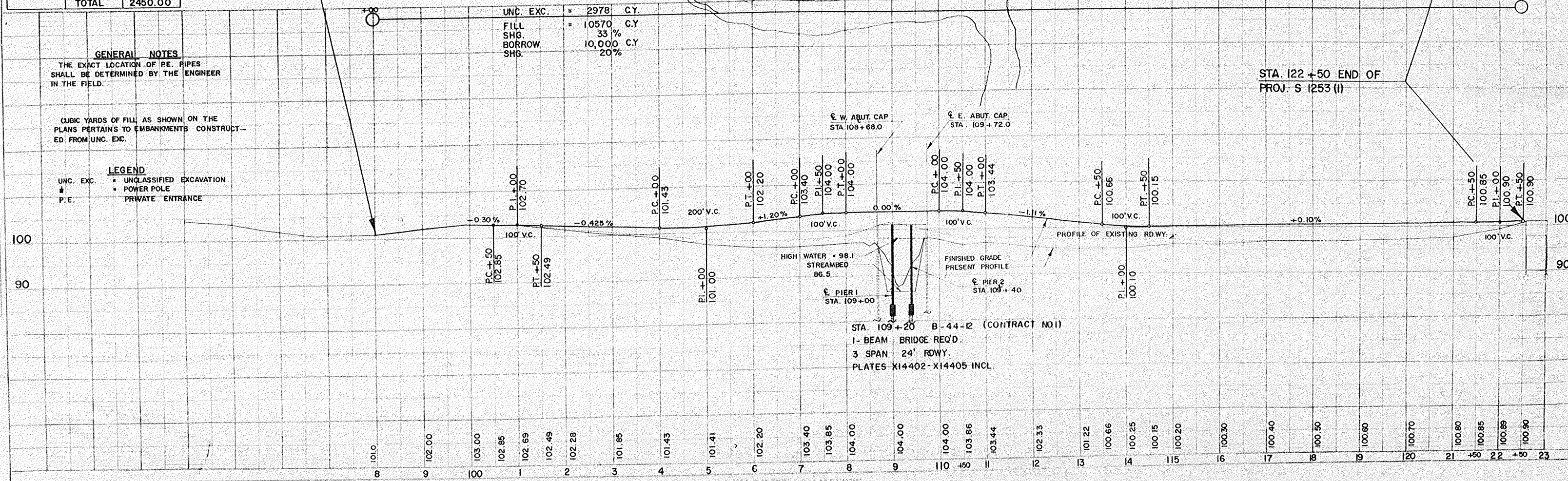
← CONTRACT NO. 1
← CONTRACT NO. 2

UNC. EXC. = 2978 C.Y.
FILL SHG. = 10570 C.Y.
BORROW SHG. 33%
20% 10,000 C.Y.

GENERAL NOTES
THE EXACT LOCATION OF P.E. PIPES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

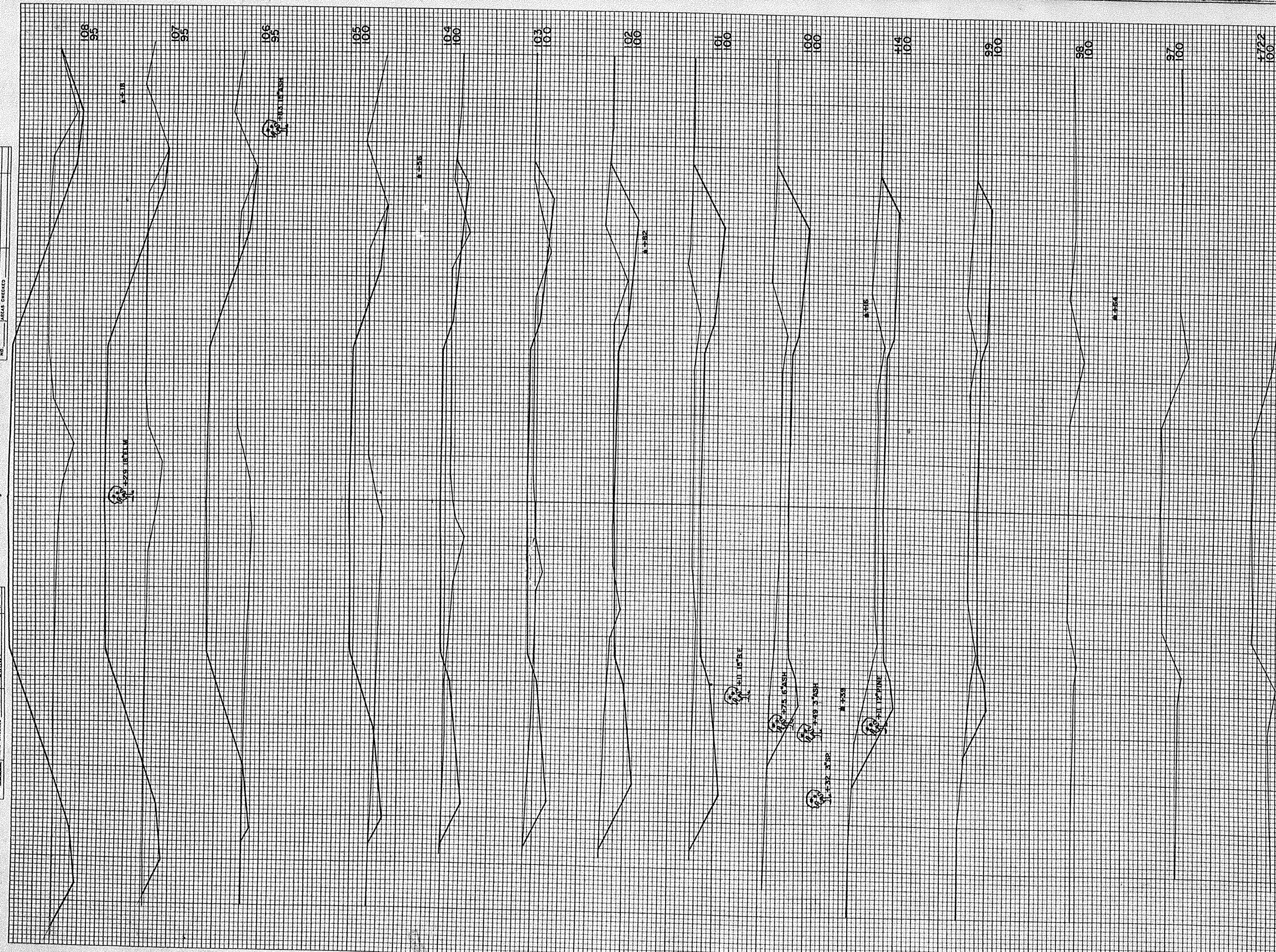
CUBIC YARDS OF FILL AS SHOWN ON THE PLANS PERTAINS TO EMBANKMENTS CONSTRUCTED FROM UNC. EXC.

LEGEND
UNC. EXC. * UNCLASSIFIED EXCAVATION
P.E. * POWER POLE
* PRIVATE ENTRANCE



ORIGINAL SURVEY	DATE	BY
NOTE BOOK	11-24	M.C.
NO. 10085	11-24	P.D.A.
	11-24	J.S.M.

FINAL SURVEY	DATE	BY
NOTE BOOK		
NO. 10085		



B.P.R. DISTRICT OFFICE		PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 4		S 1253 (1)	14	16

STATION	DISTANCE	YARDAGE	
		EXCAVATION	UNC
98			
99	148		0
100	46		0
101	330		0
102	822		0
103	378		4
104	220		59
105	126		148
106	89		298
107	52		548
108	67		752
109	139		848
110			
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FINAL SURVEY	DATE
NOTE BOOK	BY
NO.	

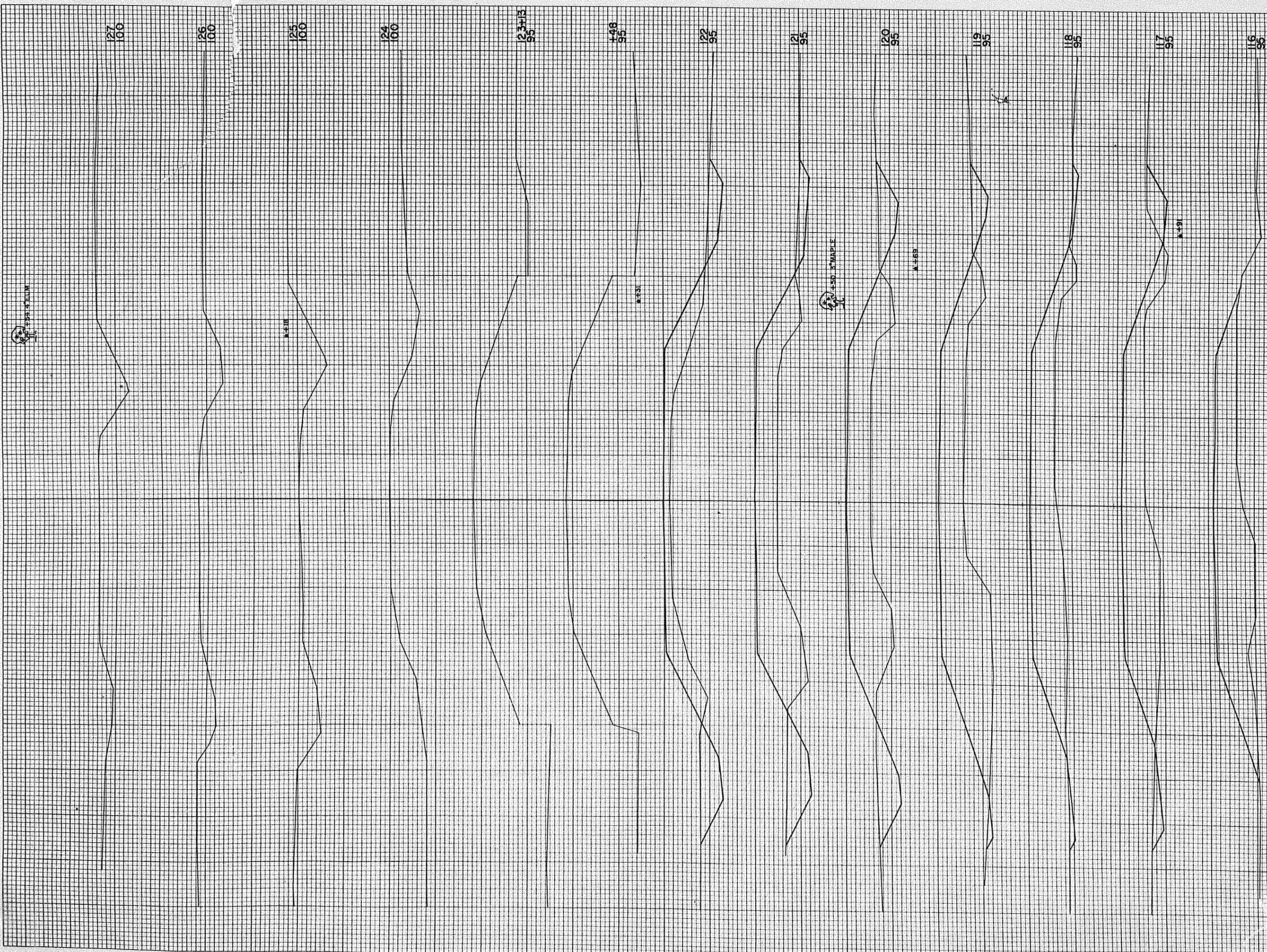
ORIGINAL SURVEY	DATE
NOTE BOOK	BY
NO. 10085	

R.P.R. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 4	S 1243 (1)	15	16

STATION	DISTANCE	YARDAGE			
		EXCAVATION			
		UNC			FILL
108		70			344
139		17			143
152		35			619
109					
	BRI	0			0
110		50			435
150		18			457
111		44			778
112		48			631
113		63			476
114		78			369
115					

ORIGINAL SURVEY	DATE	BY
	NO. 10,005	W. R. N.
	NOTE BOOK	R. O. A.
	PLATE	J. R. W.

FINAL SURVEY	DATE	BY
	NO. 10,005	W. R. N.
	NOTE BOOK	R. O. A.
	PLATE	J. R. W.



B.P.R. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 4	S 1253 (1)	16	16

STATION	DISTANCE	YARDAGE	
		EXCAVATION	
		UNC	FILL
115	39		450
116	31		528
117	43		520
118	33		604
119	93		606
120	135		520
121	126		376
122	30		57
123+13			
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