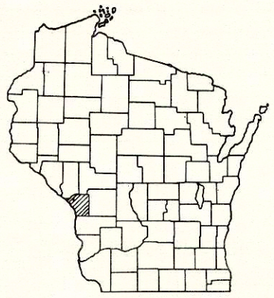
COUNTY AND HIGHWAY	ROUTE AND SECTION	CLASS AND AGREEMENT		B.P.R. REGION DIVISION	SHEET NUMBER	TOTAL SHEETS
		STATE	FEDERAL			
32.6	1459.0		11.2	4 WIS.	1	14

INDEX OF SHEETS



STATE OF WISCONSIN

STATE HIGHWAY COMMISSION OF WISCONSIN

PLAN AND PROFILE OF PROPOSED

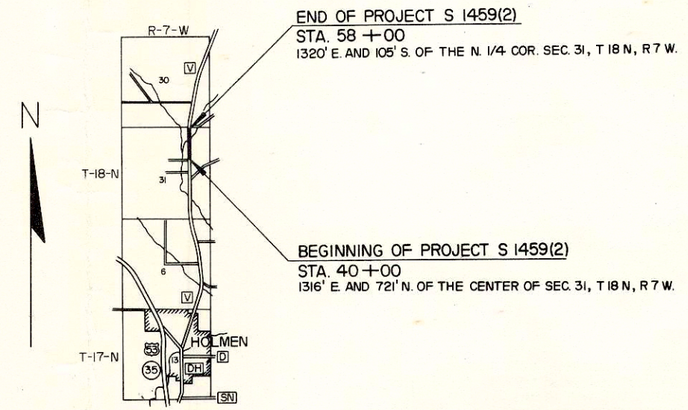
HOLMEN - C.T.H. "TT" ROAD

C.T.H. "V"

LA CROSSE COUNTY

PROJECT S 1459(2)

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



CONVENTIONAL SIGNS

STATE LINE
COUNTY LINE
TOWNSHIP OR RANGE LINE
SECTION LINE
NEW RIGHT OF WAY LINE
PRESENT RIGHT OF WAY LINE
WIRE FENCE { WOVEN, BARBED
LOT LINE
CORPORATE OR CITY LIMITS
PROPERTY LINE — P.L. + 32.6
TRAVELED WAY OR P.E.
RAILROADS
BASE OR SURVEY LINE — 30

CULVERTS IN PLACE
CULVERTS REQUIRED
DROP INLET
POWER POLE
TELEPHONE OR TELEGRAPH POLE
RIGHT OF WAY MARKERS
REFERENCE STAKE FOR HUBS ONLY — +11.7 / 73.9
MARSH
HEDGE
TREES
GROUND ELEVATION — DATUM LINE — 73.9
GRADE ELEVATION — DATUM LINE — 75.16

LAYOUT

SCALE — 1 MILE

TOTAL NET LENGTH OF CENTERLINE = 0.341 MI.

APPROVED FOR LA CROSSE COUNTY BY:

5-2-66 DATE — Oscar H. Smith COMMISSIONER

STATE HIGHWAY
COMMISSION OF WISCONSIN
MADISON, WIS.

SURVEYOR D.E.K. NOTE BOOK L.L.
DIVISION COMPUTER J.B.K. M. O. CHECKER Ole
DISTRICT CHECKER G.W.P. CORRECT

CORRECT:
DATE 5-27-66 — DISTRICT ENGINEER

RECOMMENDED FOR APPROVAL:
DATE 6/7/66 — CHIEF DESIGN ENGINEER

APPROVED:
DATE 6/8/66 — STATE HIGHWAY ENGINEER

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

APPROVED:

DATE

DIVISION ENGINEER

S 1459(2)

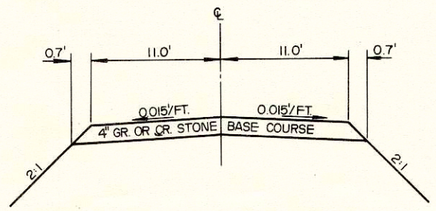
ESTIMATE OF QUANTITIES

CONTRACT NO. 1

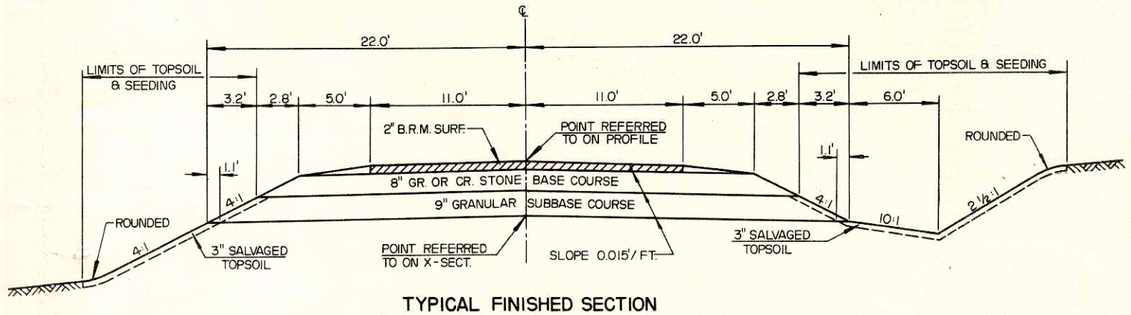
B.P.R. REGION	PROJECT	SHEET NO.	TOTAL SHEETS
4	S 1459(2)	2	14

THIS PROJECT IS TO BE EXECUTED UNDER THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OF THE STATE HIGHWAY COMMISSION OF WISCONSIN — EDITION OF 1963, APPROVED OCTOBER 16, 1963, FEDERAL AID REQUIRED CONTRACT PROVISIONS APPROVED OCTOBER 29, 1963, AND SPECIAL PROVISIONS AS ATTACHED TO PROPOSALS.

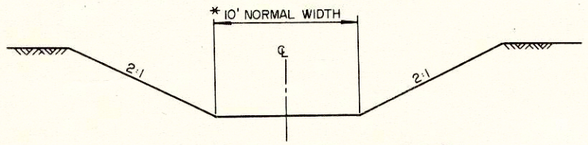
SEC. NO.	STATION TO STATION		NET LENGTH OF CENTER LINE	CLEARING	GRUBBING	UNCLASSIFIED EXCAVATION	GRANULAR SUBBASE COURSE	FINISHING ROADWAY	GRAVEL OR CRUSHED STONE BASE COURSE	MARKER POSTS	MARKER POSTS FOR RIGHT-OF-WAY	TEMPORARY CROSSING STA. 50+00	SALVAGED TOPSOIL	FERTILIZER	SEEDING	FIELD OFFICE	CULVERT PIPE CLASS III 18-INCH	APRON ENDWALLS FOR CULVERT PIPE 18-INCH	SODDING	BRIDGES (STRUCTURES OVER 20 FT. SPAN)					
		ITEM NO.		20101	20104	20503	21201	21301	30401	61421	61422	61901	62505	62901	63001	90001	52003	52061	63101	REMOVING OLD BRIDGE STA. 50+23 20351	EXCAVATION FOR STRUCTURES 20601	GRANULAR BACKFILL 20901	CONCRETE MASONRY 50201	BAR STEEL REINFORCEMENT 50501	HEAVY RIPRAP 60602	
		UNIT	LIN. FT.	STA.	STA.	C.Y.	C.Y.	L.S.	C.Y.	EACH	EACH	L.S.	S.Y.	CWT.	S.Y.	L.S.	L.F.	EACH	S.Y.	L.S.	C.Y.	C.Y.	C.Y.	LB.	C.Y.	
	40+00 - 58+00		1800.0	6	6	4594	2350	1	2400	10	11	1	7195	8	9230	1	30	2	70	1	530	40	153.6	20,310	260	
	PROJECT TOTAL		1800.0	6	6	4594	2350	1	2400	10	11	1	7195	8	9230	1	30	2	70	1	530	40	153.6	20,310	260	



TYPICAL TEMPORARY ROAD SECTION

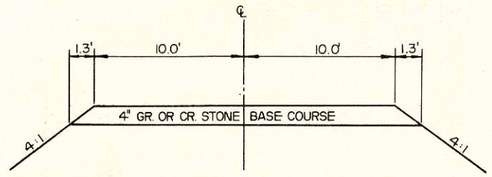


TYPICAL FINISHED SECTION



TYPICAL CHANNEL CHANGE SECTION

* VARIABLE WIDTH NEAR ENDS OF STRUCTURE (SEE "B" LINE SECTIONS)



TYPICAL PRIVATE ENTRANCE SECTION

GENERAL NOTES

WHEN THE QUANTITY OF THE ITEMS OF SUBBASE OR BASE 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 ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL DIRECTED BY THE ENGINEER.

B.R.M. SURFACE & SHOULDER MATERIAL NOT A PART OF THIS CONTRACT.

SALVAGED TOPSOIL SHALL BE PLACED TO AN APPROXIMATE DEPTH OF 3" AT TIME OF PLACING.

BEARINGS SHOWN ON PLANS ARE TRUE BEARINGS.

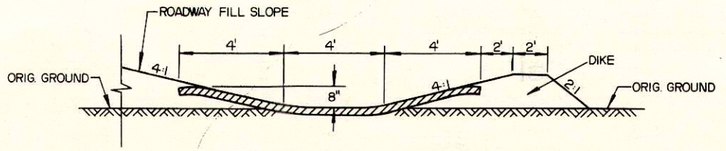
WASTE MATERIAL AND MATERIAL DESIGNATED FOR USE AS ROADWAY FILL MAY BE USED IN THE TEMPORARY ROADWAY APPROACHES AS DIRECTED BY THE ENGINEER.

APPLICABLE STANDARD DETAIL DRAWINGS

7-1.3.4 MARKER POST & MARKER POSTS FOR RIGHT OF WAY

7-4.1.4 CONSTRUCTION BARRICADE

6-2.6.4 APPRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH



SOD FLUME

STA. 49+50 RT. - 50+00 RT.

DETAIL SUMMARY OF MISCELLANEOUS QUANTITIES

CLEARING & GRUBBING

Sta. - Sta.	Location	Clearing Sta.	Grubbing Sta.
47+00 - 49+00	Centerline	2	2
1"B"+55-4"B"+55	Ch. Ch.	4	4

GRAVEL OR CRUSHED STONE BASE COURSE

Sta. - Sta.	Location	C.Y.
39+50 - 40+00	C/L (Approach)	30
40+00 - 58+00	C/L	2010
58+00 - 58+50	C/L (Approach)	30
48+11	P.E., Lt.	8
49+38	P.E., Rt.	12
Temporary Road		190
Undistributed		120

TOPSOIL, SEEDING & FERTILIZER

Sta. - Sta.	Location	Salv. Topsoil S.Y.	Seeding S.Y.	Fertilizer Cwt.
40+00 - 58+00	Mainline	5585	5585	5.0
1"B"+55 - 7"B"+00	Ch. Ch.	1210	1210	1.1
47+50 Rt.-53+50 Rt.	Area Occupied by Temp. Rd.		2035	1.8
Undistributed		400	400	0.1

MINOR SIDE ROAD, PRIVATE ENTRANCE & SLOPE DRAIN PIPES

Station	Location	Diam. In.	Length L.F.	Type	Apron Endwalls
49+34	P.E., Rt.	18	30	C.P. Class III	2

MARKER POSTS

Sta. - Sta.	Location	Each
49+70 - 50+70	Rt.	5
49+40 - 50+40	Lt.	5

MARKER POSTS FOR RIGHT-OF-WAY

Station	Location	Each
40+00	Lt.& Rt.	2
46+00	Rt.	1
48+35.8	Lt.	1
49+00	Lt.	1
50+50	Lt.& Rt.	2
53+00	Lt.	1
55+00	Rt.	1
58+00	Lt.& Rt.	2

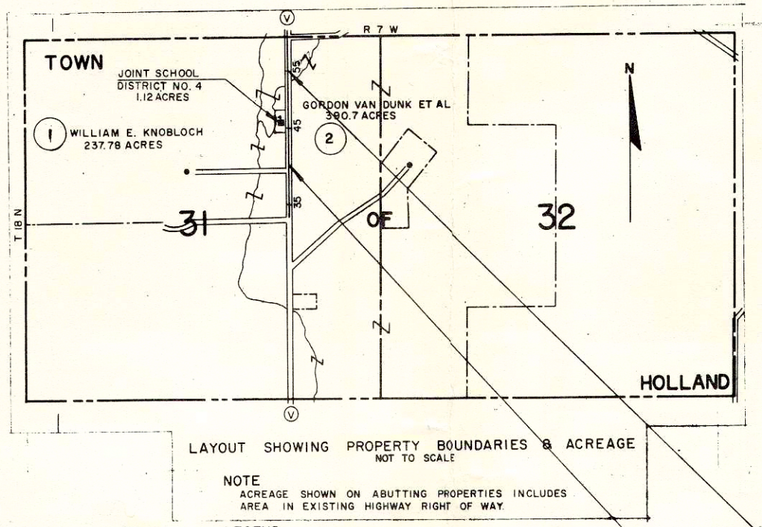
SODDING

Sta. - Sta.	Location	S.Y.
49+50	Flume, Rt.	70

PROJECT	SHEET NO.	TOTAL SHEETS
S 1459(2)	3	14

STANDARD ABBREVIATIONS

ABANDON	ABND.	MAILING ADDRESS	#0000
ABSTRACT	ABS.	MANHOLE	M.H.
ACCESS POINT	A. P.	MANUFACTURING	MFG.
ACRES	AC.	MAXIMUM	MAX.
ADDITION	ADD.	MEASURED	(M)
AGRICULTURAL	AGRI.	MILE	MI.
AHEAD	AH.	MILK ROOM	M.R.
AND OTHERS	ET. AL.	MINIMUM	MIN.
AND WIFE	ET. UX.	MONUMENT	MON.
APARTMENT	APT.	MOTEL	MO.
ASSUMED	(A)	MUNICIPAL	MCPL.
AUXILIARY REFERENCE LINE	A. R.	NORTHEAST	NE
AVENUE	AVE.	NORTHWEST	NW
BACK	BK.	NUMBER	NO.
BARN	B.	OUTLOT	O. L.
BASE LINE	B	PARALLEL	PLL.
BEARING LONG CHORD	B. L. C.	PAVEMENT	PAV'T.
BITUMINOUS	BIT.	PERMANENT	PERM.
BLOCK	BLK.	POINT OF CURVATURE	P. C.
BOULEVARD	BLVD.	POINT OF INTERSECTION	P. I.
BRICK	BRK.	POINT OF TANGENCY	P. T.
BUILDINGS	BLDGS.	POINT OF COMPOUND CURVE	P. C. C.
CATCH BASIN	C. B.	POINT OF REVERSE CURVE	P. R. C.
CEMETERY	CEM.	POINT ON CURVE	P. O. C.
CENTERLINE	℄	PRIVATE DRIVE	P. D.
CENTRAL ANGLE	Δ	PROJECT	PROJ.
CHANNEL	CH.	PROPERTY LINE	P. L.
CHANNEL CHANGE	CH. CH.	QUIT CLAIM DEED	Q. C. D.
CHICKEN HOUSE	C. H.	RADIUS	R
COMMERCIAL	COMM.	RAILROAD	RR.
COMPANY	COM.	RAILWAY	RY.
COMPUTED	(C)	REFERENCE LINE	℞
CONCRETE	CONC.	RELOCATED	REL.
CONSTRUCTION	CONST.	REQUIRED	REQ'D.
CORN CRIB	C. C.	RESIDENTIAL	RES.
CORNER	COR.	RESTAURANT	REST.
CORPORATION	CORP.	RIGHT	RT.
CORRUGATED	CORR.	RIGHT OF WAY	R/W
COUNTY	CO.	ROAD	RD.
COUNTY TRUNK HIGHWAY	C. T. H.	ROADWAY	RDWY.
CREEK	CR.	SANITARY	SAN.
CULVERT	CULV.	SCALED	(S)
DEED	(D)	SCHOOL	SCH.
DEGREE OF CURVE	D	SECTION	SEC.
DISPOSAL	DISP.	SERVICE STATION	S. S.
DISTRICT	DIST.	SEPTIC TANK	SEP.
DRIVE	DR.	SIDEWALK	SWK.
DRIVEWAY	DWY.	SHED	S.
ESTATE	EST.	SOUTHEAST	SE
EXISTING	EX.	SOUTHWEST	SW
EXTERNAL DISTANCE	E	SPECIAL CROSSING	S. C.
FACTORY	FACT.	SPECIAL DRIVE	S. D.
FEDERAL AID PROJECT	F. A. P.	SQUARE	SQ.
FIELD ENTRANCE	F. E.	STANDARD	STD.
FIRE HYDRANT	F. H.	STATE TRUNK HIGHWAY	S. T. H.
FOOT (FEET)	FT.	STATION	STA.
FOUNDATION	FDN.	STORY	STY.
FRAME	FR.	STREET	ST.
GARAGE	G.	SUBDIVISION	SUBD.
GOVERNMENT	GOV'T.	SURVEY	(S)
GREEN HOUSE	G. H.	TANGENT	TAN.
HIGHWAY	HWY.	TANGENT LENGTH OF CURVE	T
HOTEL	HO.	TAPER	TAP.
HOUSE	H.	TAVERN	TAV.
HOUSE TRAILER	H. T.	TEMPORARY	TEMP.
INCHES	IN.	TRANSIT LINE	℄
INCORPORATED	INC.	TRANSMISSION TOWER	T. T.
INCLUSIVE	INCL.	UNITED STATES COAST & GEODETIC SURVEY	U. S. C. & G. S.
INTERSECTION ANGLE	I.	UNITED STATES GEOLOGICAL SURVEY	U. S. G. S.
INTERSTATE HIGHWAY	I. H.	UNITED STATE HIGHWAY	U. S. Highway
IRON PIN	I. P.	VENDEE	VDE.
ISLAND	IS.	VENDOR	VDR.
LEFT	LT.	VITRIFIED	VIT.
LENGTH OF CURVE	L	WAREHOUSE	WH.
LESSEE	LSE.	WATER TOWER	W. T.
LESSOR	LSR.	WELL	W.
LIMITED HIGHWAY EASEMENT	L. H. E.	WINDMILL	WM.
MACHINERY SHED	M. S.	WOOD	WD.
MAGNETIC	MAG.		



LAYOUT SHOWING PROPERTY BOUNDARIES & ACREAGE
NOT TO SCALE

NOTE
ACREAGE SHOWN ON ABUTTING PROPERTIES INCLUDES AREA IN EXISTING HIGHWAY RIGHT OF WAY.

LEGEND
- BUILDINGS
- SCHOOL

COUNTY AND HIGHWAY	ROUTE AND SECTION	CLASS AND AGREEMENT STATE	CLASS AND AGREEMENT FEDERAL	B P R REGION DIVISION	SHEET NUMBER	TOTAL SHEETS
32.6	1459.0		11.2	4 WIS	4	
CONST. PROJECT	S 1459(2)				4	14

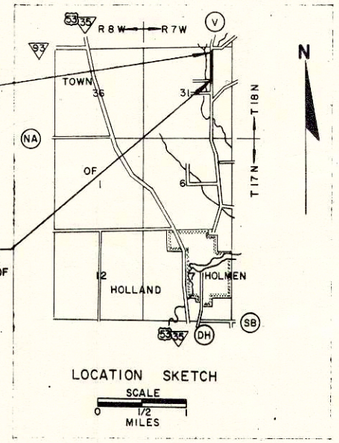
NOTE:
BEARINGS SHOWN ON THIS PLAT ARE THE TRUE BEARINGS OF EACH TANGENT TO THE NEAREST MINUTE

SCHEDULE OF LANDS AND INTERESTS REQUIRED

PARCEL NUMBER	SHEET NUMBER	OWNER	INTERESTS REQUIRED	ACRES
1	4.1	WILLIAM E. KNOBLOCH	FEE & L.H.E.	0.15
2	4.1	GORDON VAN DUNK ET AL	FEE & L.H.E.	0.80
3	4.1	GENERAL TELEPHONE CO.	RELEASE OF RIGHTS	——

END RELOCATION ORDER
PROJECT S 1459(2) STATION 55+00
1320 FEET EAST AND 404.8 FEET SOUTH OF THE NORTH ONE QUARTER CORNER OF SECTION 31, T18N, R7W.

BEGIN RELOCATION ORDER
PROJECT S 1459(2) STATION 40+00
1316.2 FEET EAST AND 720.8 FEET NORTH OF THE CENTER OF SECTION 31, T 18 N, R7W.



LOCATION SKETCH
SCALE
0 1/2 MILES

CONVENTIONAL SIGNS

STATE LINE		CEMETERY	Cem.
COUNTY LINE		FOUNDATION	Fdn.
TOWNSHIP AND RANGE LINES		GAS PUMP ISLAND	Gas Pump
SECTION LINE		BUILDING	type
QUARTER LINE		IRON PIN	I. P.
SIXTEENTH LINE		POWER POLE	
NEW CENTERLINE		TELEPHONE POLE	
NEW R/W LINE		RAIL LINE	
OLD R/W LINE		TRANSMISSION TOWER AND LINE	
PROPERTY LINE	P.L. +00.0	UNDERGROUND CABLE MARKER	
CORPORATE LIMITS	(NAME)	WELL	
SLOPE INTERCEPTS	slope intercept	STONE MONUMENT	
LOT, TIE AND OTHER MINOR DASHED LINES		SEPTIC TANK	
UNDERGROUND FACILITY (POWER, TELEPHONE, TELEGRAPH, GAS, ETC.)	(Name or Type)	WINDMILL	
NO ACCESS			
LIMITED HIGHWAY EASEMENT			

HIGHWAY HIGHWAY SEPARATION	
HIGHWAY OVERPASS	
RAIL LINE OVERPASS	
ALL OTHER BRIDGES	
STREAM OR RIVER	(name)
LAKE	(name)
CATTLE PASS	
℄ RELOCATED STREAM OR RIVER	
TRAVELED WAY (Shown only in area of Frontage Roads, Interchanges or Dual Lanes)	

REVISION DATE

STATE HIGHWAY COMMISSION OF WISCONSIN

PLAT OF RIGHT OF WAY REQUIRED
PROJECT S 1459(2)
HOLMEN - C.T.H. "TT" ROAD

C.T.H. "V" — LA CROSSE COUNTY

SCALE
0 100 200 FEET

LENGTH 0.344 MILES

DATED FEB. 9, 1966

COUNTY AND HIGHWAY	ROUTE AND SECTION	CLASS AND AGREEMENT STATE	CLASS AND AGREEMENT FEDERAL	B. P. R. REGION DIVISION	SHEET NUMBER	TOTAL SHEETS
32.6	1459.0		11.2	4 WIS.	4.1	
CONST. PROJECT S 1459(2)					4.1	14

SCHEDULE OF LANDS AND INTERESTS REQUIRED

PARCEL NUMBER	SHEET NUMBER	OWNER	INTERESTS REQUIRED	ACRES
1	4.1	WILLIAM E. KNOBLOCH	FEE & L.H.E.	0.15
2	4.1	GORDON VAN DUNK ET AL	FEE & L.H.E.	0.80
3	4.1	GENERAL TELEPHONE CO.	RELEASE OF RIGHTS	—

T 18 N
R 7 W
SECTION 31 CENTER

HOLLAND — TOWN OF

SW-NE — NW-NE — SE-NE — NE-NE

P.L. TOWN ROAD — 1316.2' — TOWN ROAD

BEGIN RELOCATION ORDER
PROJECT S 1459(2) STATION 40+00

L.H.E. FOR CH. CH.
1.27 ACRES (TEMP.)

(1) WILLIAM E. KNOBLOCH
236.6 ACRES REMAINING

409/175

END RELOCATION ORDER
PROJECT S 1459(2) STATION 55+00

BURIED TELEPHONE CABLE
GENERAL TELEPHONE CO. (3)

BURIED TEL. CABLE
GENERAL TEL. CO.

SCHOOL DISTRICT NO. 4
LONG COULEE
SCHOOL

SEPTIC TANK
SWING

32+79.2 — 39+20.7 — 44+24 P.L. — 46+00 250 — 49+00 250 — 40+00 33 — 46+00 60 — 49+00 — 50+50 50 — 53+00 34 — 50+50 60 — 55+00 32 — 52+00 125 — P.L. 59+04.8

P.L. — N 1°-06' W — 35 — 40 — 45 — 50 — 55 — P.L.

SLOPE INTERCEPTS

L.H.E. FOR CH. CH. 8
TEMP. ROAD 0.95 ACRES (TEMP)

409/544

(2) GORDON VAN DUNK ET AL
388.8 ACRES REMAINING

SPRING

P.L. MOE COULEE ROAD

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

REVISION DATE	

STATE HIGHWAY COMMISSION OF WISCONSIN

PLAT OF RIGHT OF WAY REQUIRED

PROJECT S 1459(2)

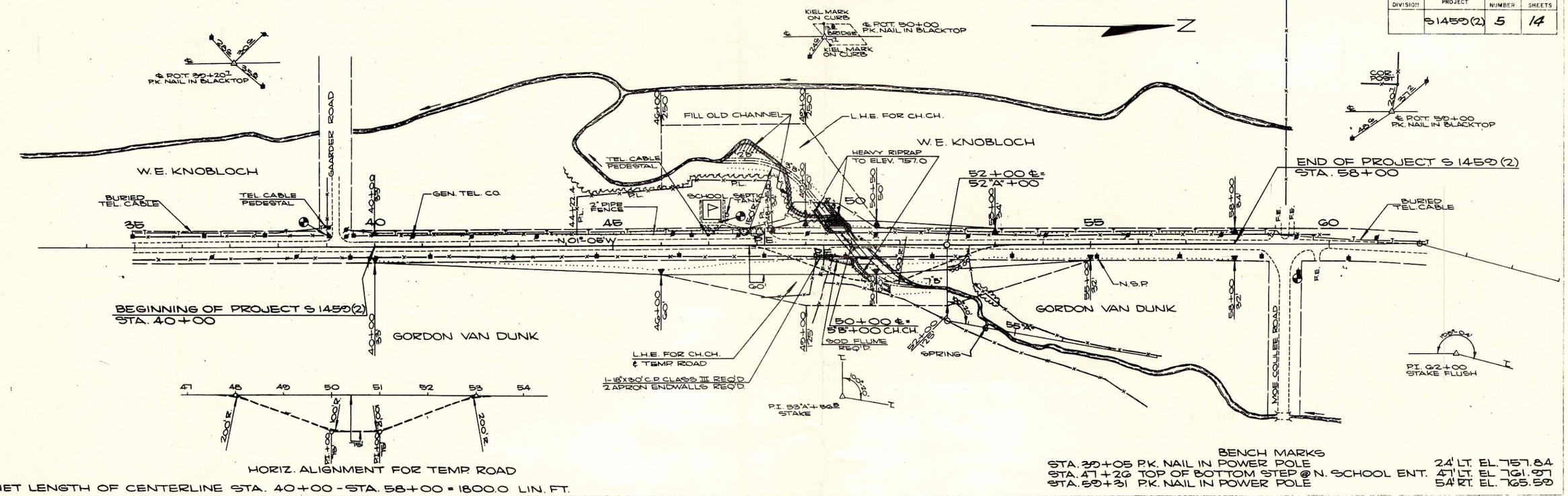
HOLMEN – C.T.H. "TT" ROAD

C.T.H. "V" — LA CROSSE COUNTY

SCALE
0 100 200
LENGTH MILES FEET

DATED FEB. 9, 1966

B. P. R. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
	S1459(2)	5	14



NET LENGTH OF CENTERLINE STA. 40+00 - STA. 58+00 = 1800.0 LIN. FT.

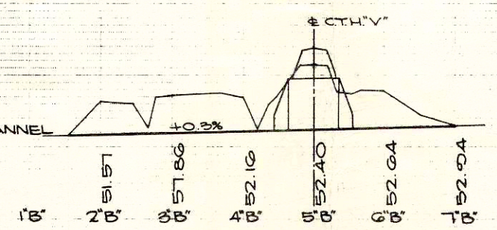
BENCH MARKS

STA. 39+05	P.K. NAIL IN POWER POLE	24' LT. EL. 757.84
STA. 47+26	TOP OF BOTTOM STEP @ N. SCHOOL ENT.	47' LT. EL. 761.97
STA. 59+31	P.K. NAIL IN POWER POLE	54' RT. EL. 765.59

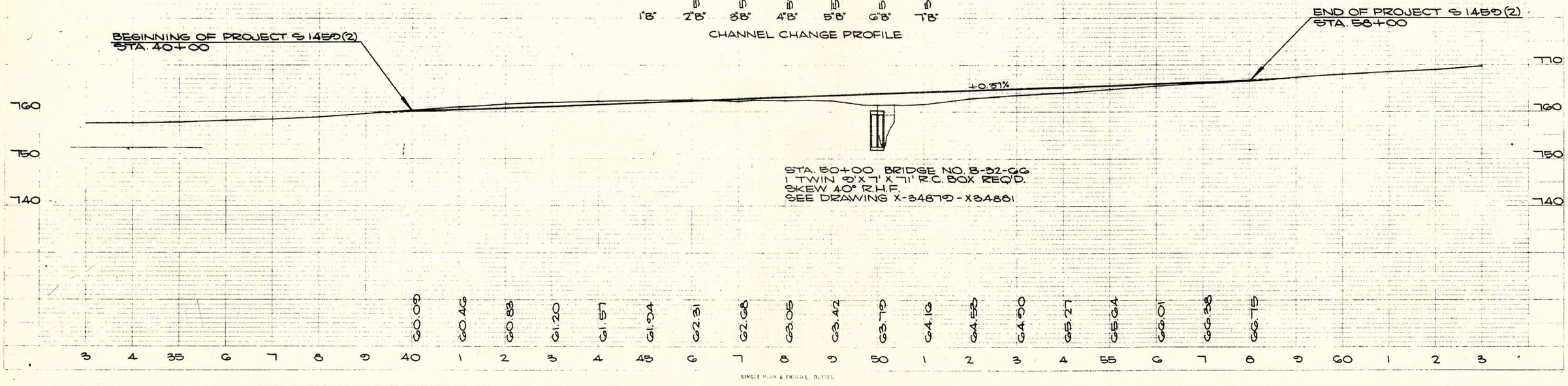
UNCL. = 4504 C.Y. { 3103 C.Y. RDWY. / 1401 C.Y. CH.CH.

FILL = 2795 C.Y. @ 25% SHG. { 2248 C.Y. RDWY. / 547 C.Y. OLD CHANNEL

WASTE = 1100 C.Y.

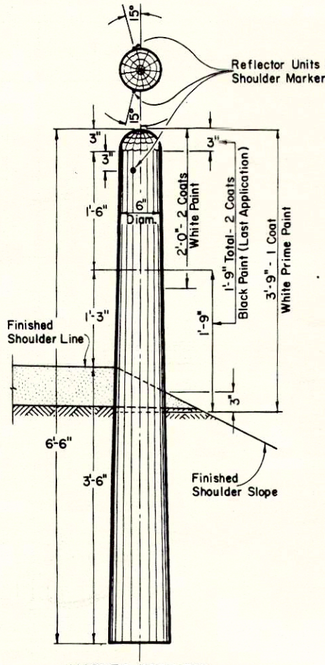


CHANNEL CHANGE PROFILE

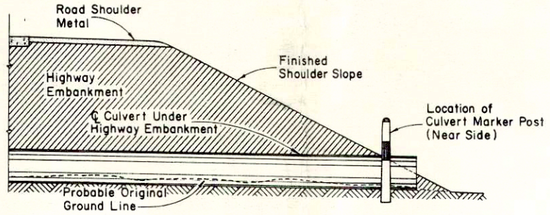


STA. 50+00 BRIDGE NO. B-32-66
1 TWIN 9'X7'X71' R.C. BOX REQ'D.
SKEW 40° R.H.F.
SEE DRAWING X-34879 - X34881

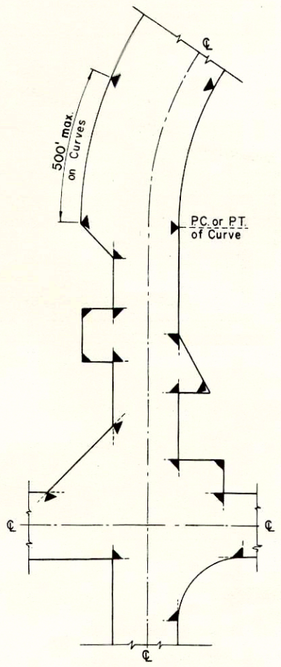
SINGLE PLAN & PROFILE SHEET



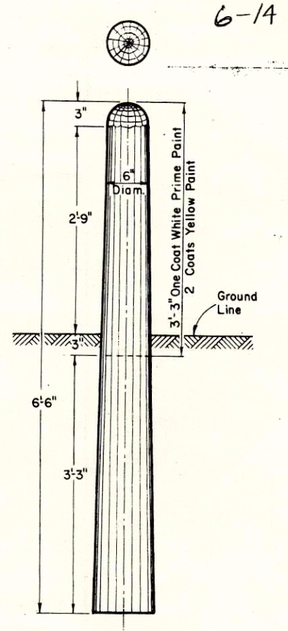
MARKER POST FOR
ROAD SHOULDERS AND CULVERTS



SECTION
SHOWING RELATIVE LOCATION OF
MARKER POST FOR CULVERTS

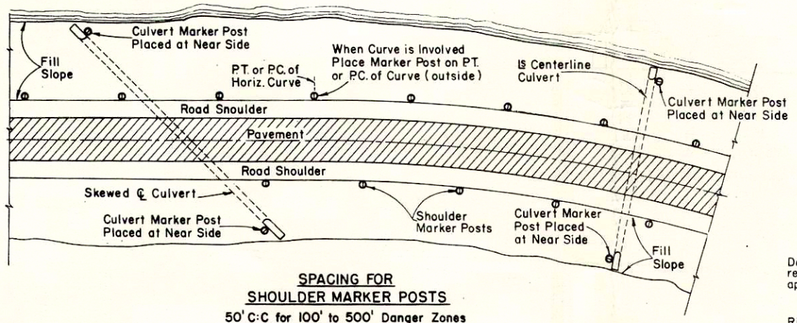


LOCATION DIAGRAM
SHOWING TYPICAL LOCATIONS OF
MARKER POSTS FOR RIGHT OF WAY



MARKER
POST
FOR
RIGHT OF WAY

Danger Zone - Water, Canyon etc.



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
AND CULVERT MARKER POSTS

MARKER POSTS FOR ROAD SHOULDERS AND CULVERTS

MARKER POST FOR RIGHT OF WAY

GENERAL NOTES

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

MARKER POSTS FOR RIGHT OF WAY

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

REFLECTOR UNITS

Reflector Units shall 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 POSTS & MARKER POSTS FOR RIGHT OF WAY

STATE HIGHWAY COMMISSION OF WISCONSIN

RECOMMENDED FOR APPROVAL

2-5-63
DATE

J. J. Pitt
ENGINEER OF DESIGN

APPROVED:

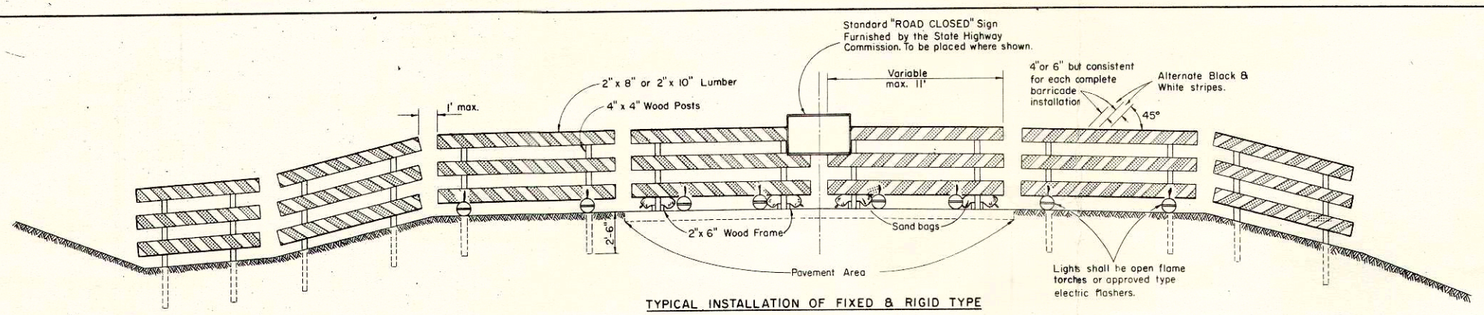
2/6/63
DATE

E. L. Rottiger
STATE HIGHWAY ENGINEER

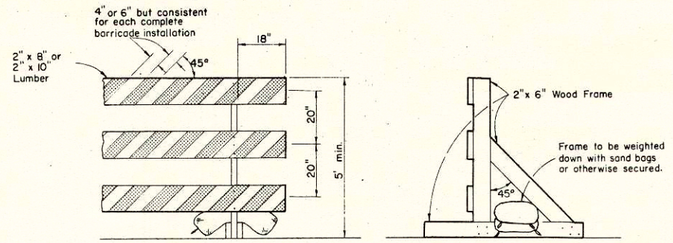
PLATE NO. 7-13.4

61-146

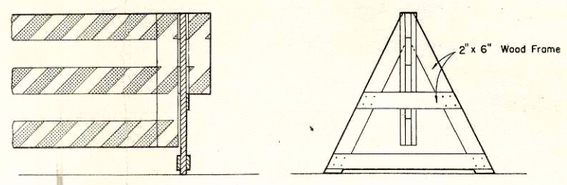
CLASS I BARRICADE



TYPICAL INSTALLATION OF FIXED & RIGID TYPE



ALTERNATE TYPE INSTALLATION (RIGID)



ALTERNATE TYPE INSTALLATION (DEMOUNTABLE)

GENERAL NOTES:

The Contractor shall construct, place and maintain barricades as shown on this drawing and as required by the Standard Specifications for the duration of the project at all points of highway closure. Barricades shall be painted as shown hereon and structurally maintained for maximum visibility at all times, for the duration of the respective project.

CLASS I BARRICADE

Shall be used at points of closure where road is closed to traffic. Gates or movable sections of barricade shall be provided when necessary, for access of equipment or other authorized vehicles only.

CLASS II BARRICADE

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.

LUMBER & 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. The fabrication of the barricade shall be in accord with good pertinent woodworking practices.

PAINTING

Barricades shall be painted as shown hereon in alternate black and white stripes. Black stripes shall be painted with weather resistant and durable black paint. White stripes shall be painted a prime coat of good grade wood primer, followed by two coats of white "Codit Reflective Liquid" (Minnesota Mining Co.) or equivalent, or reflective sheeting wide angle, flat top "Scotchlite" brand material (Minnesota Mining Co.) or equivalent.

DIRECTION OF DIAGONAL STRIPES

Where a barricade extends entirely across the roadway and 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.

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.

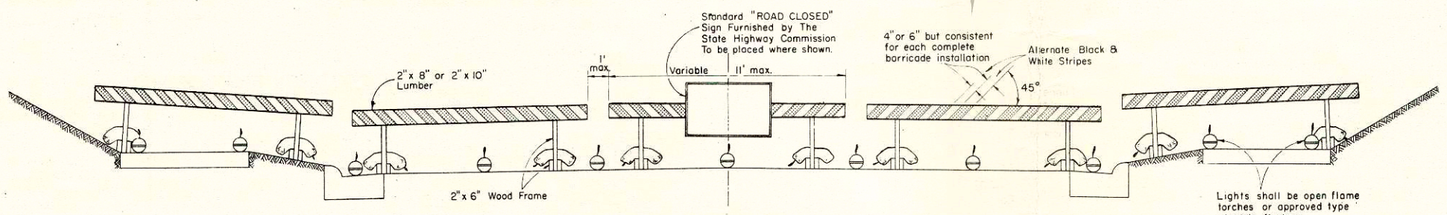
NOTE:

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

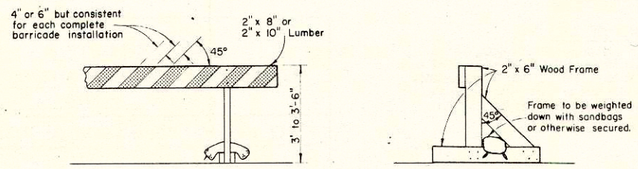
NOTE:

All lumber or timber dimensions shown hereon are nominal.

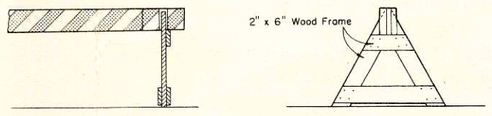
CLASS II BARRICADE



TYPICAL INSTALLATION OF RIGID TYPE



ALTERNATE TYPE INSTALLATION (RIGID)



ALTERNATE TYPE INSTALLATION (DEMOUNTABLE)

CONSTRUCTION BARRICADE

STATE HIGHWAY COMMISSION OF WISCONSIN

RECOMMENDED FOR APPROVAL:

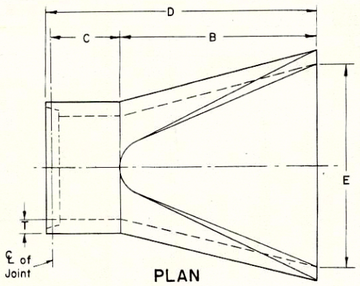
DATE 2-5-63 — J. S. Pilf, ENGINEER OF DESIGN

APPROVED:

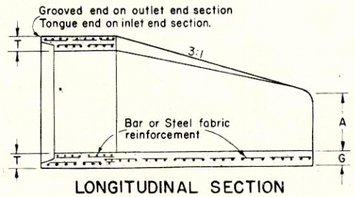
DATE 2/6/63 — E. C. Curtin, STATE HIGHWAY ENGINEER

PLATE NO. 7-4.1.4

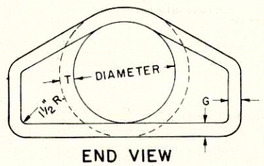
62-14



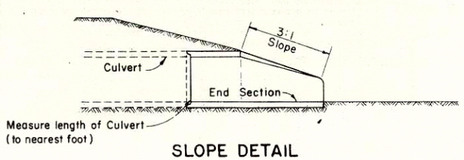
PLAN



LONGITUDINAL SECTION



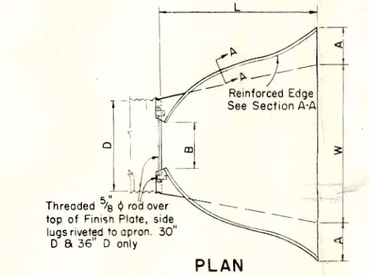
END VIEW



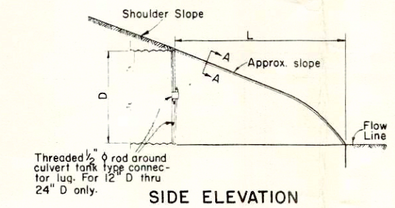
SLOPE DETAIL

DIA.	APPROX WEIGHT/ SECTION	SLOPE	T	A	B	C	D	E	G
18"	990	3 to 1	2½"	9"	27"	46"	73"	36"	2½"
21"	1280	3 to 1	2¾"	9"	36"	37½"	73½"	42"	2¾"
24"	1520	3 to 1	3"	9½"	43½"	30"	73½"	48"	3"
27"	1930	3 to 1	3¼"	10½"	49½"	24"	73½"	54"	3¼"
30"	2190	3 to 1	3½"	12"	54"	19¾"	73¾"	60"	3½"
36"	4100	3 to 1	4"	15"	63"	34¾"	97¾"	72"	4"
42"	5380	3 to 1	4½"	21"	63"	35"	98"	78"	4½"
48"	6550	3 to 1	5"	24"	72"	26"	98"	84"	5"

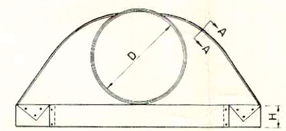
REINFORCED CONCRETE APRON ENDWALLS



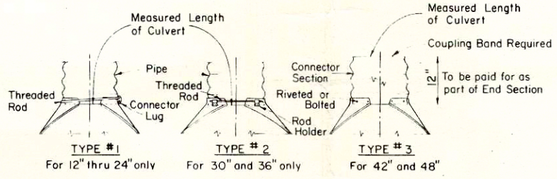
PLAN



SIDE ELEVATION



END VIEW

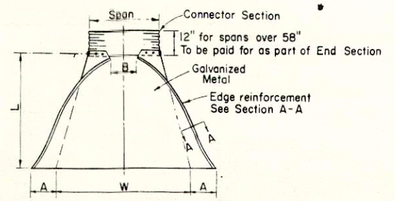


CONNECTION DETAILS

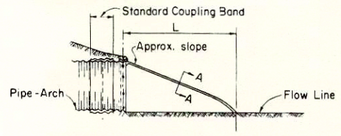
D Pipe Diam.	Gage Min.	Dimensions A ± 1"	B Max	H ± 1"	L ± 1½"	W ± 2"	Approx Slope	Fabrication Remarks
18"	16	8"	10"	6"	31"	36"	2½ to 1	1 Piece
21"	16	9"	12"	6"	36"	42"	"	"
24"	16	10"	13"	6"	41"	48"	"	"
30"	14	12"	16"	8"	51"	60"	"	"
36"	14	14"	19"	9"	60"	72"	"	2 Pieces, ℄ Splice
42"	12	16"	22"	11"	69"	84"	"	"
48"	12	18"	27"	12"	78"	90"	2¼ to 1	"

Note All splices to be lap riveted or bolted.

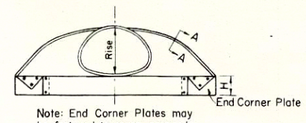
METAL AND ALUMINUM APRON ENDWALLS



PLAN
showing alternate type with connector section

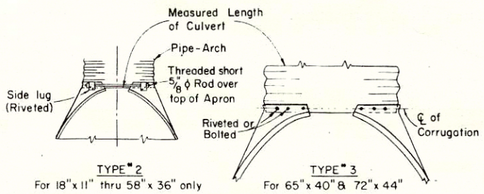


SIDE ELEVATION



Note: End Corner Plates may be fastened to apron proper by bolts or rivets which will hold the surfaces tightly together.

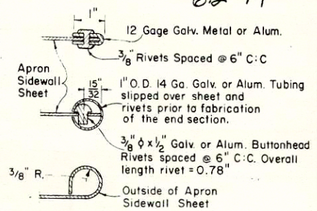
END VIEW



CONNECTION DETAILS

Pipe-Arch Dimensions Span	Rise	Gage Min.	Dimensions A ± 1"	B Max	H ± 1"	L ± 1½"	W ± 2"	Approx. Slope	Fabrication Remarks
18"	11"	16	7"	9"	6"	19"	30"	2½ to 1	1 Piece
22"	13"	16	7"	10"	6"	23"	36"	"	"
25"	16"	16	8"	12"	6"	28"	42"	"	"
29"	18"	16	9"	14"	6"	32"	48"	"	"
36"	22"	14	10"	16"	6"	39"	60"	"	"
43"	27"	14	12"	18"	8"	46"	75"	"	"
50"	31"	12	13"	21"	9"	53"	85"	"	2 Pieces, ℄ Splice
58"	36"	12	18"	26"	12"	63"	90"	"	"
65"	40"	12	18"	30"	12"	70"	102"	2¼ to 1	"
72"	44"	12	18"	33"	12"	77"	114"	"	3 Pieces, 2 Splices equal distance from ℄

Note: All splices to be lap riveted or bolted.



SECTION A-A

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.

Reinforced concrete apron endwalls shall conform to the pertinent requirements of the Standard AASHO Designation: M170, Class II (Wall B).

Metal apron endwalls shall conform to the pertinent requirements of the Standard AASHO Designation: M36.

Aluminum apron endwalls shall conform to the pertinent requirements of the Standard AASHO Designation: M-196-62 I

NOTE:

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.

Reinf. concrete apron endwalls shall be used with concrete pipe culvert installations, metal apron endwalls shall be used with corr. metal pipe culvert installations, and Aluminum endwalls shall be used with corr. aluminum culvert installations.

APRON ENDWALLS FOR CULVERT PIPE

APRON ENDWALLS FOR PIPE ARCH

APRON ENDWALLS FOR CULVERT PIPE & PIPE ARCH

STATE HIGHWAY COMMISSION OF WISCONSIN

RECOMMENDED FOR APPROVAL
DATE 4.9.65 — DISTRICT ENGINEER

DATE 4-12-65 — STATE HIGHWAY ENGINEER

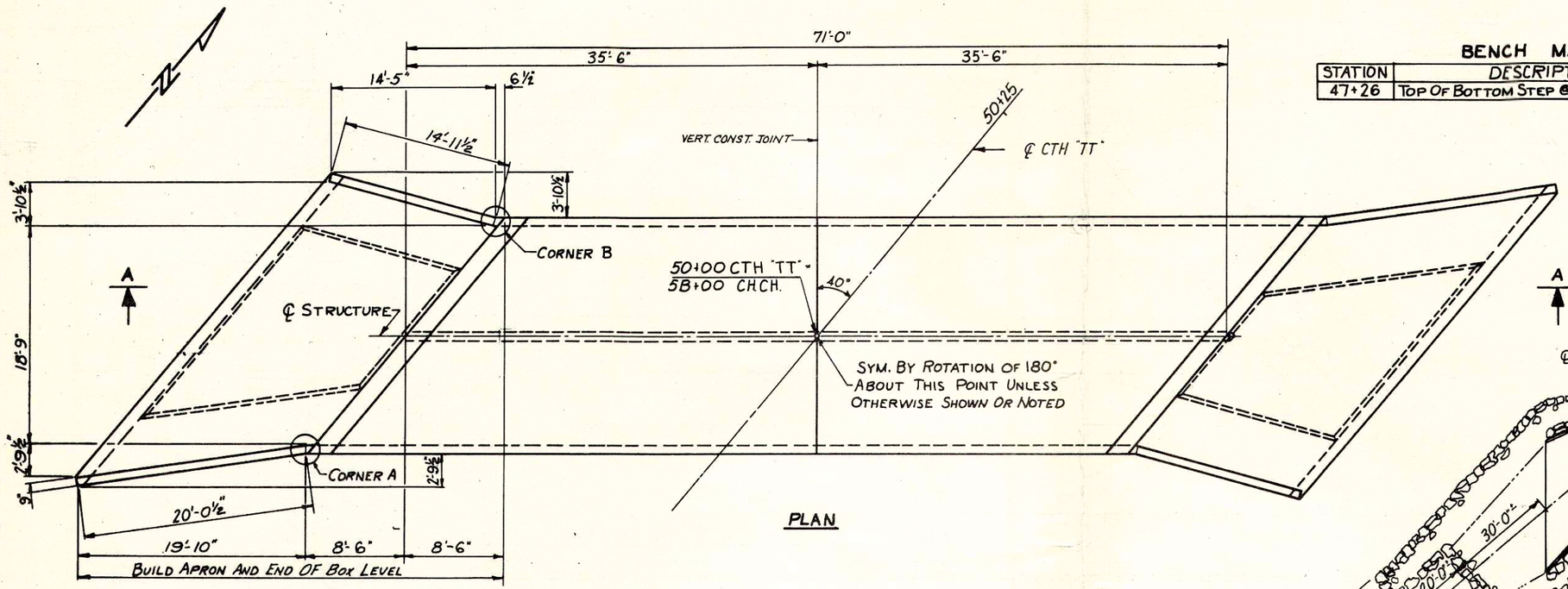
PLATE NO. 6-26.4

FORM E-B-11-62

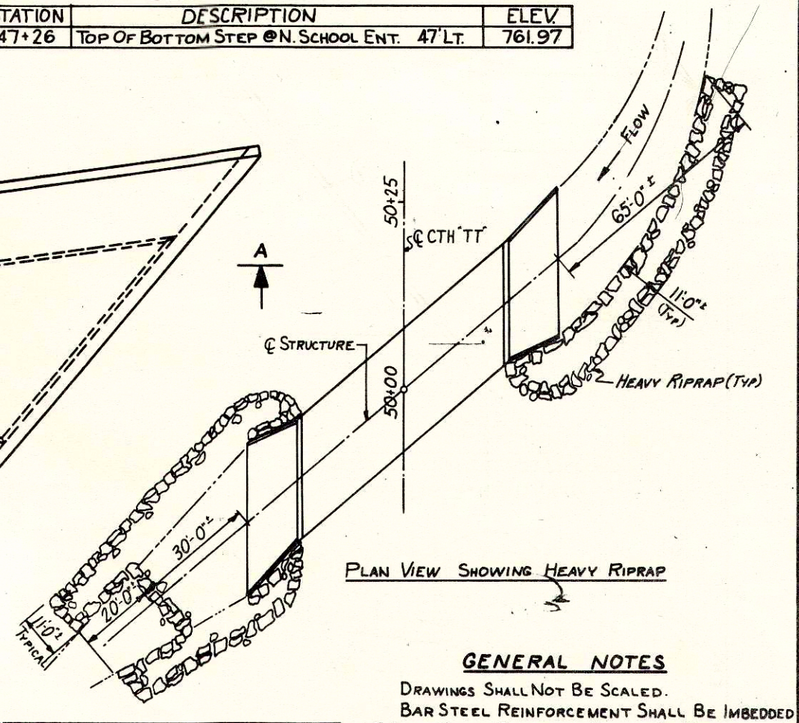
COUNTY & HIGHWAY	ROUTE & SECTION	CLASS & AGREEMENT STATE	CLASS & AGREEMENT FEDERAL	B. P. R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
32.6	1459.0		11.2	4	S1459(2)	7	14

BENCH MARK

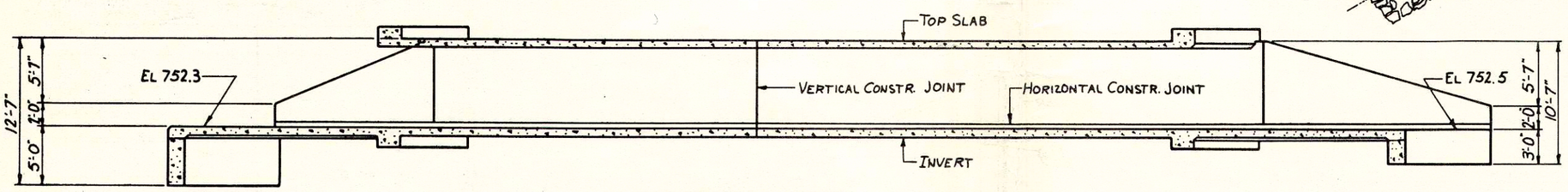
STATION	DESCRIPTION	ELEV
47+26	TOP OF BOTTOM STEP @ N. SCHOOL ENT. 47' LT.	761.97



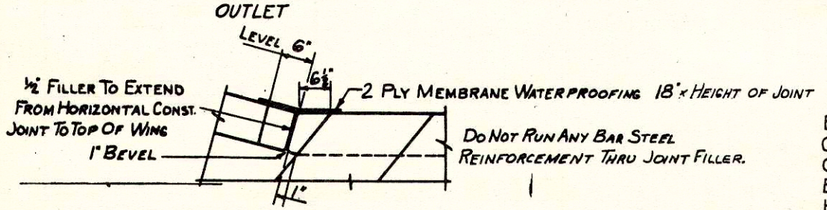
PLAN



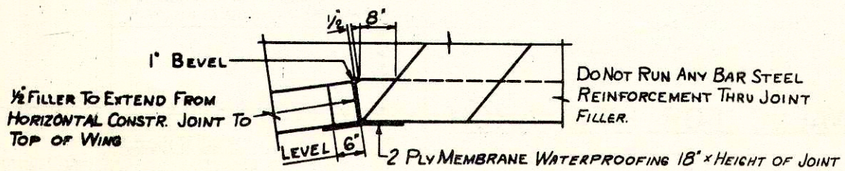
PLAN VIEW SHOWING HEAVY RIPRAP



OUTLET — SECTION A-A — INLET



CORNER B



CORNER A

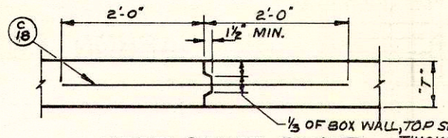
TOTAL ESTIMATED QUANTITIES

BID ITEMS

EXCAVATION FOR STRUCTURES	530	C.Y.
GRANULAR BACKFILL	40	C.Y.
CONCRETE MASONRY	153.6	C.Y.
BAR STEEL REINFORCEMENT	20,310	LB.
HEAVY RIPRAP	260	C.Y.
REMOVING OLD BRIDGE	1	L.S.

NON-BID ITEMS

FILLER	½"	SIZE
2 PLY MEMBRANE WATERPROOFING	43	S.F.



VERT. CONST. JOINT

DESIGN DATA

LIVE LOAD
H 20

ALLOWABLE DESIGN STRESSES
CONCRETE MASONRY, GRADE "AA" f_c = 1,400 PSI.
BAR STEEL REINFORCEMENT f_s = 20,000 PSI.

FOUNDATION DATA
STRUCTURE IS DESIGNED FOR 4'-0" OF FILL.

LIST OF DRAWINGS

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
BAR STEEL REINFORCEMENT SHALL BE IMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED
BETWEEN THE ENDS OF BOX ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH GRANULAR BACKFILL TO THE ELEVATION AND SECTION EXISTING PRIOR TO EXCAVATION. PAYMENT WILL BE MADE ONLY FOR MATERIAL ACTUALLY PLACED WITHIN THE LIMITS SPECIFIED FOR "EXCAVATION FOR STRUCTURES."
JOINT FILLER SHALL CONFORM TO A.A.S.H.O. DESIGNATION M153 TYPE I.

REVISED

STATE HIGHWAY COMMISSION OF WISCONSIN

LAYOUT

CO. LA CROSSE — CITY, VIL. TH. HOLLAND — STA. 50+00

SECTION 31 — TOWN 18 N — RANGE 7 W

DESIGN SPEC. A.A.S.H.O.'61 — LOADING H 20 — CONST. SPEC. 1963

DATE 4-29-66 — DESIGN CRD — DRAWN JRP — CKD. F.R.W.

RECOMMENDED W. B. Schultz CHIEF BRIDGE ENGINEER

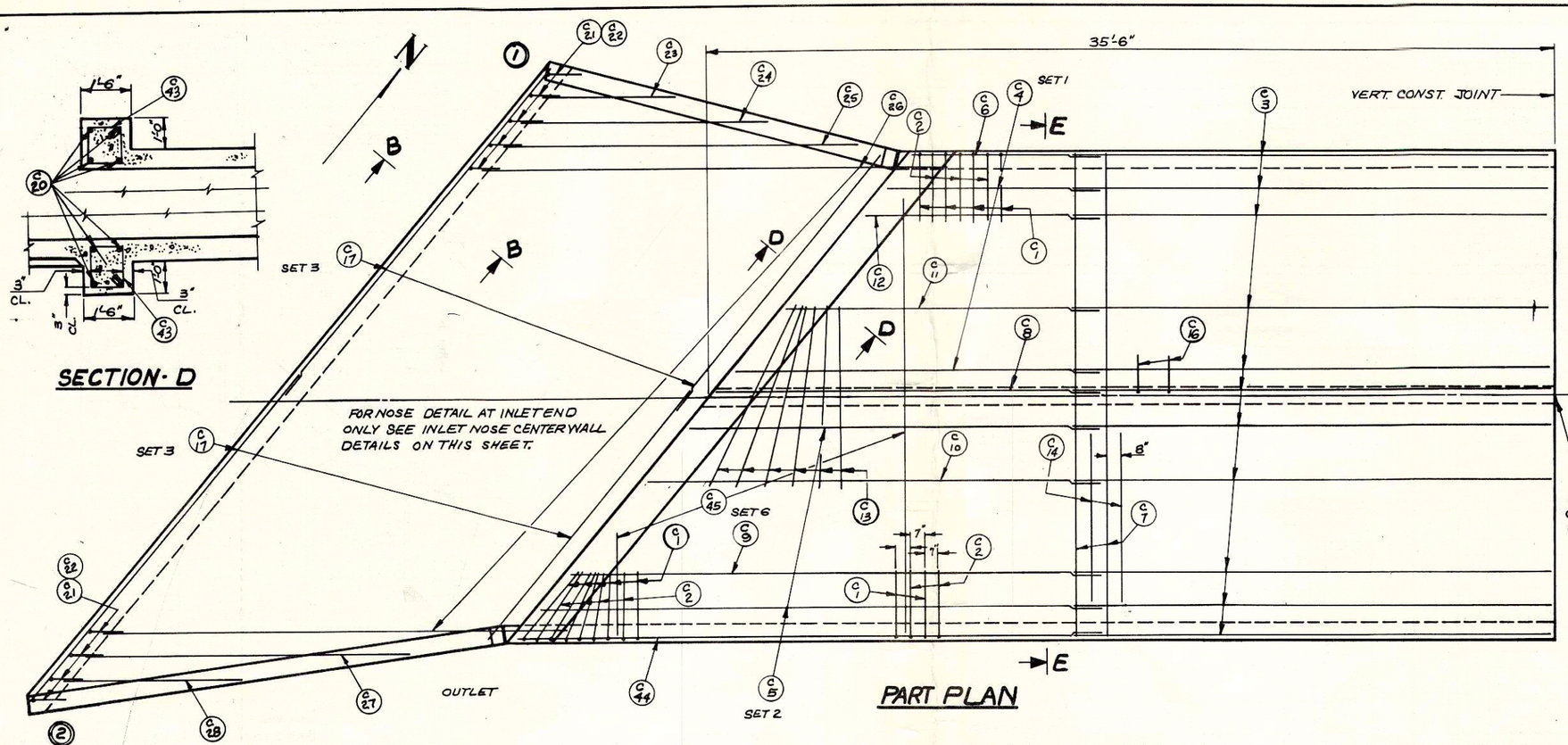
APPROVED: STATE HIGHWAY ENGINEER

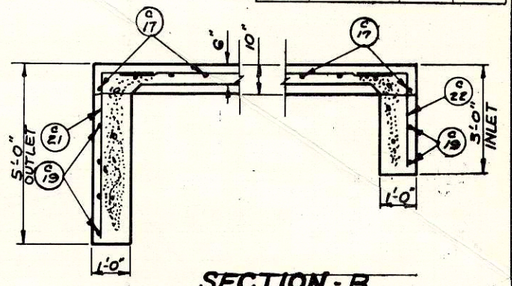
STRUCTURE B-32-66 — SHEET 1 OF 3

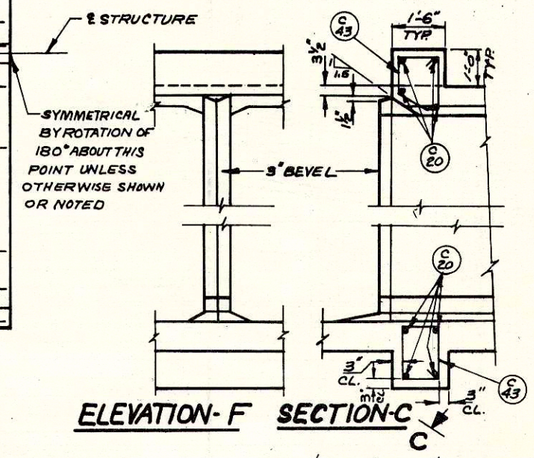
X34879

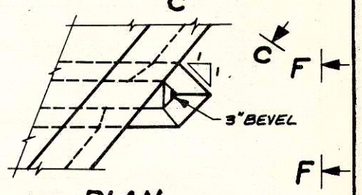
FORM E-B-12-62

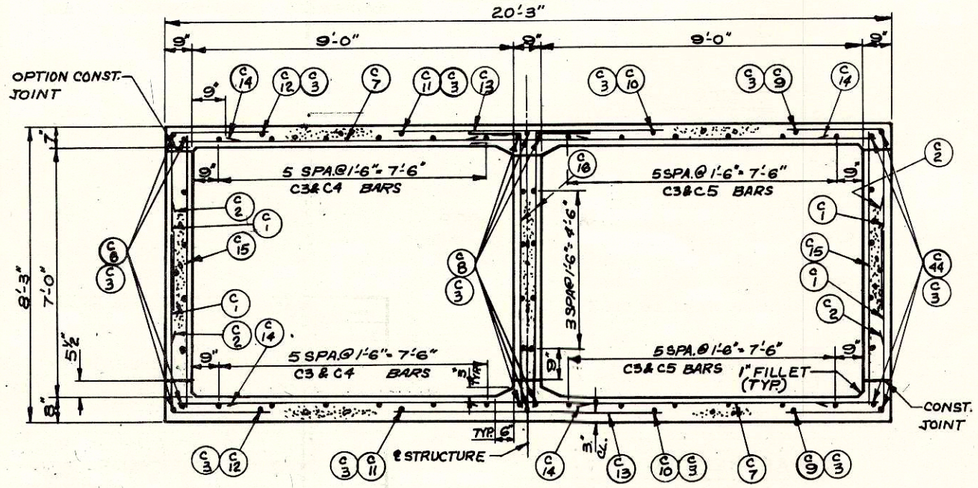
S.P.R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	S1459(2)	8	14

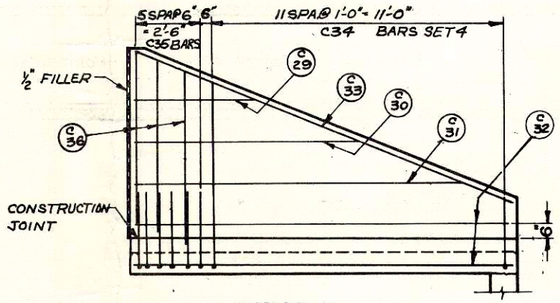


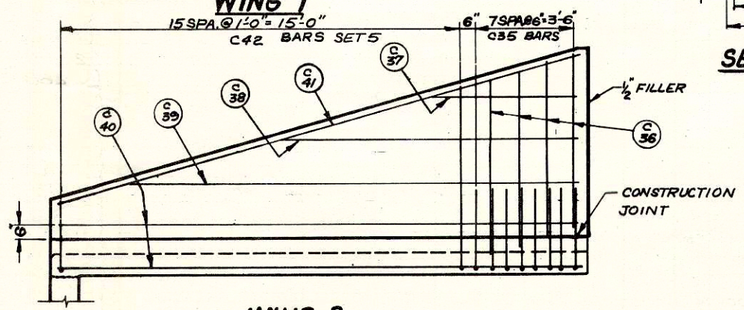


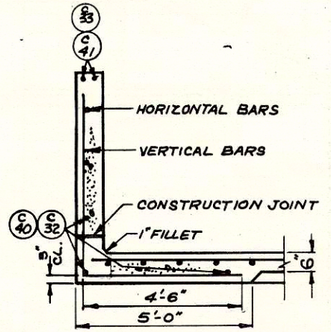












REVISED	STATE HIGHWAY COMMISSION OF WISCONSIN
	DETAILS
	DESIGN SPEC. AASHO 61 · LOADING H20 · CONSTR. SPEC. 1963
	DATE 4-25-66 · DESIGN C.R.D. · DRAWN D.E.O. · CKD. F.R.W.
STRUCTURE B-32-66	SHEET 2 OF 3

X34880

FORM E-B-12-62

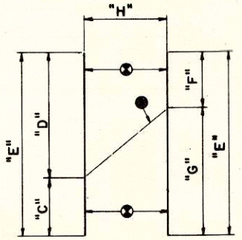
B.P.R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	S1459(2)	9	14

20,310 LBS.

POUR	MARK	NO.	SIZE	LENGTH	SPACING	LOCATION	DET.
	C 1	244	6	7-9	1-2	Barrel-Corners	A
	C 2	244	6	5-0	1-2	" "	A
	C 3	128	4	20-0	Shown	" Longitudinal Slab, Invert & Walls	
	C 4	12	4	24-3	"	" " " " "	†
	C 5	12	4	40-3	"	" " " " "	†
	C 6	18	4	8-0	"	" " Side	
	C 7	76	6	19-9	1-4	" Transverse-Slab & Invert	
	C 8	28	4	16-6	Shown	" Longitudinal-Interior Wall	
	C 9	4	4	22-3	"	" " Slab & Invert	
	C10	4	4	19-0	"	" " " " "	
	C11	4	4	13-3	"	" " " " "	
	C12	4	4	10-0	"	" " " " "	
	C13	192	6	7-6	0-9	" Transverse-Slab & Invert	
	C14	152	6	7-0	1-4	" " " " "	
	C15	108	4	7-9	1-4	" Vertical	
	C16	108	5	8-9	1-4	" " Centerwall	A
	C17	28	4	31-0	1-0	Apron-Transverse	†
	C18	63	5	4-0	1-0	Construction Joint-Dowel	
	C19	12	4	17-6	1-0	Cutoff Wall-Inlet & Outlet	
	C20	16	6	25-9	Shown	Headers-Inlet & Outlet	
	C21	27	4	6-0	1-0	Apron & Cutoff Wall-Outlet	A
	C22	27	4	4-0	1-0	" " " " Inlet	A
	C23	2	4	5-0	1-0	" Longitudinal-Inlet & Outlet	
	C24	2	4	9-9	1-0	" " " " "	
	C25	2	4	14-9	1-0	" " " " "	
	C26	40	4	19-3	1-0	" " " " "	
	C27	2	4	13-0	1-0	" " " " "	
	C28	2	4	7-3	1-0	" " " " "	
	C29	2	4	5-3	1-6	Wing 1-Horizontal	
	C30	2	4	9-3	1-6	" 1 "	
	C31	2	4	13-3	1-6	" 1 "	
	C32	6	4	14-6	Shown	" 1 "	
	C33	4	5	15-6	"	" 1-Slope	
	C34	12	4	18-3	"	" 1-Vertical	†A
	C35	28	4	7-0	"	Wings 1 & 2-Vertical	A
	C36	14	4	6-6	"	" 1 & 2 "	
	C37	2	4	7-0	1-6	Wing 2-Horizontal	
	C38	2	4	12-3	1-6	" 2 "	
	C39	2	4	17-6	1-6	" 2 "	
	C40	6	4	19-9	Shown	" 2 "	
	C41	4	5	20-3	"	" 2-Slope	
	C42	16	4	18-3	"	" 2-Vertical	†A
	C43	136	3	5-9	0-9	Header-Bend in Field	
	C44	18	4	24-6	Shown	Barrel-Longitudinal-Side	
	C45	38	6	24-9	0-8	" Transverse Slab & Invert	†

POUR	MARK	NO.	SIZE	LENGTH	SPACING	LOCATION	DET.

† CUTTING DIAGRAM



● MARK AND CUT ALL BARS ALONG THIS LINE. MAKE ALL CUTS NORMAL TO BAR AXIS.

⊠ BUNDLE AND MARK CUT BARS WITH BAR AND SET NUMBER.

BENT BARS USED IN A CUTTING DIAGRAM SHALL BE BENT AFTER CUTTING.

"H" IS THE NUMBER OF BARS IN A CUTTING DIAGRAM, BEFORE CUTTING.

MARK		"C"	"D"	"E"	"F"	"G"	"H"	SETS REQ'D.
C4	SET 1	9'-0"		24'-3"		15'-3"	6	2
	SET 1		15'-3"		9'-0"			2
C5	SET 2	17'-0"		40'-3"		23'-3"	6	2
	SET 2		25'-3"		17'-0"			2
C17	SET 3	15'-6"		31'-0"		17'-6"	14	2
	SET 3		17'-6		15'-6			2
C34	SET 4	7'-0"		18'-3"		11'-3"	12	1
	SET 4		11'-3"		7'-0"			1
C42	SET 5	7'-0"		18'-3"		11'-3"	16	1
	SET 5		11'-3"		7'-0"			1
C45	SET 6	5'-0"		24'-9"		19'-9"	19	2
	SET 6		19'-9"		6'-0"			2

2'-9"	C1 & C2
1'-0"	C16
1'-6"	C21 & C22
4'-6"	C34, C35 & C42

DETAIL A

BAR BENDING DETAILS

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT.
BARS MARKED †† TO BE BENT IN FIELD.

REVISED

STATE HIGHWAY COMMISSION OF WISCONSIN

BILL OF BARS

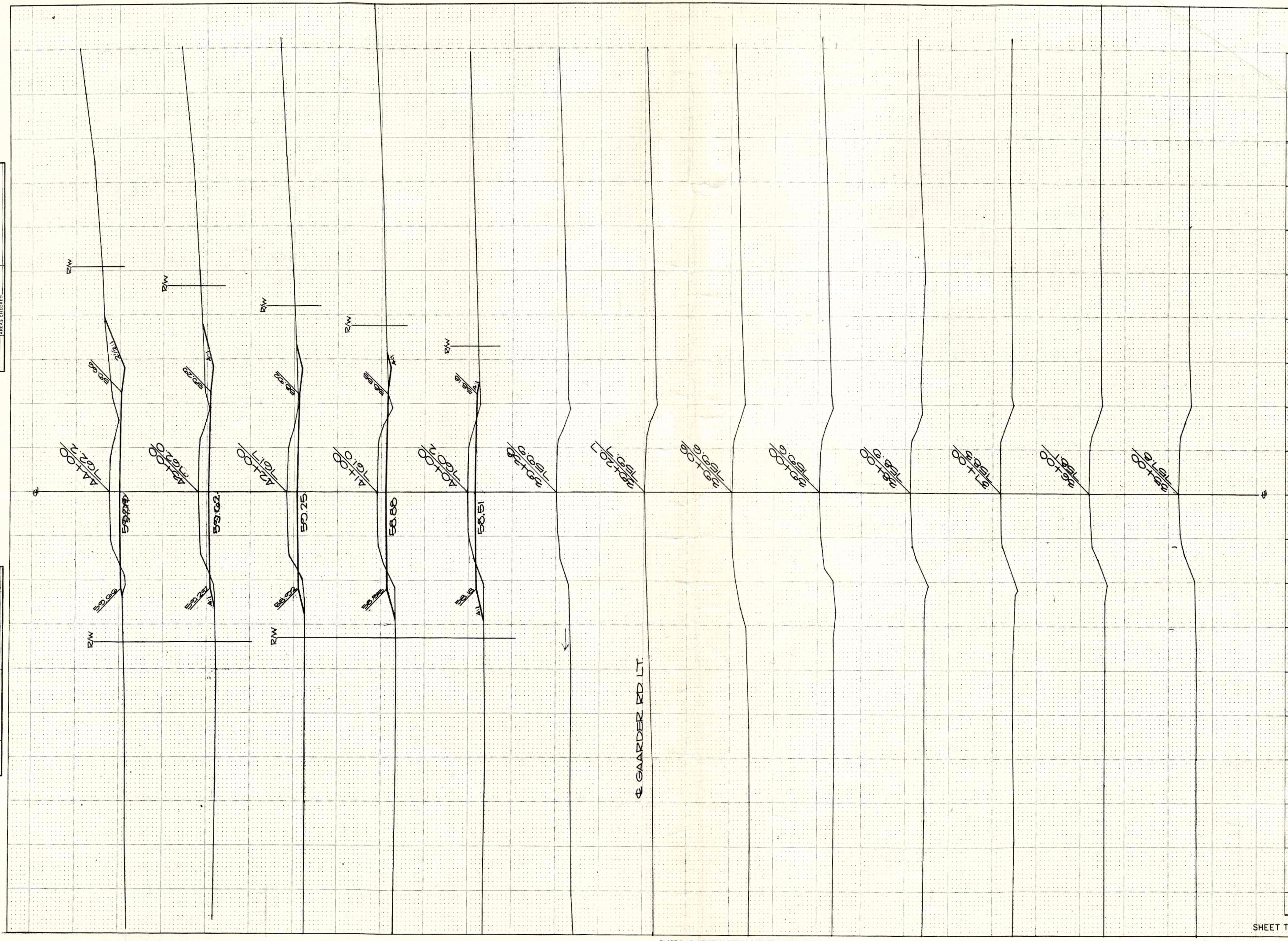
DESIGN SPEC. ____ LOADING ____ CONST. SPEC. ____

DATE 4-29-66 DESIGN ____ DRAWN DEO CKD. F.R.W.

STRUCTURE B-32-66 SHEET 3 OF 3

X34881

B.P.R. REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	S 1459(2)	10	14

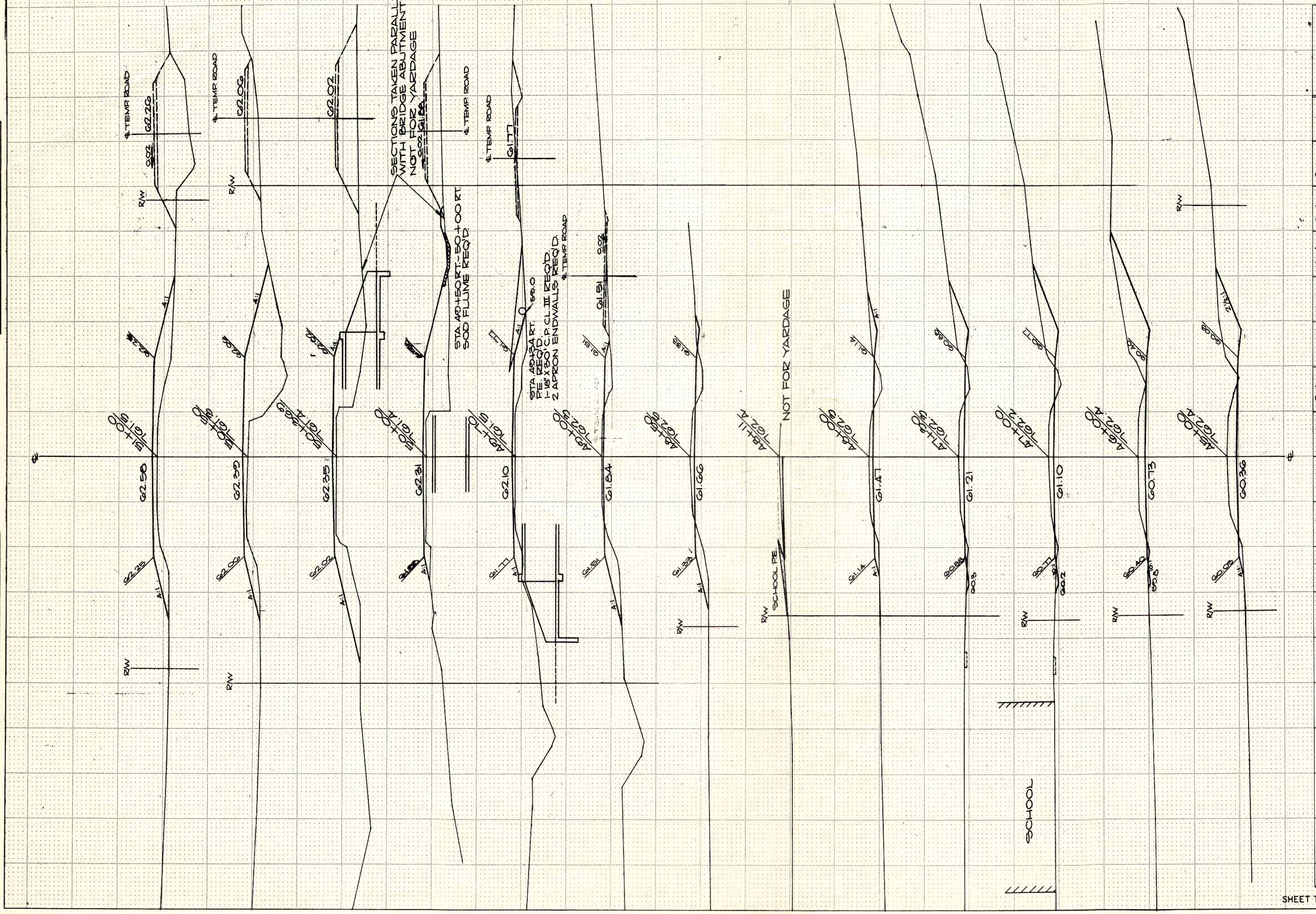


STATION	DISTANCE	YARDAGE EXCAVATION UNCL.				FILL
39+50						
		40				16
40+00						
		193				59
41+00						
		248				39
42+00						
		301				23
43+00						
		358				17
44+00						
SHEET TOTAL		1140				154

NOTE BOOK NO. L.L. TEMPLATE J.O.K. 2-66 AREAS C.H.N. 3-66 AREAS CHECKED I.B.M. 3-66

NOTE BOOK NO. TEMPLATE AREAS AREAS CHECKED

B.P.R. REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	S 1450(2)	11	14

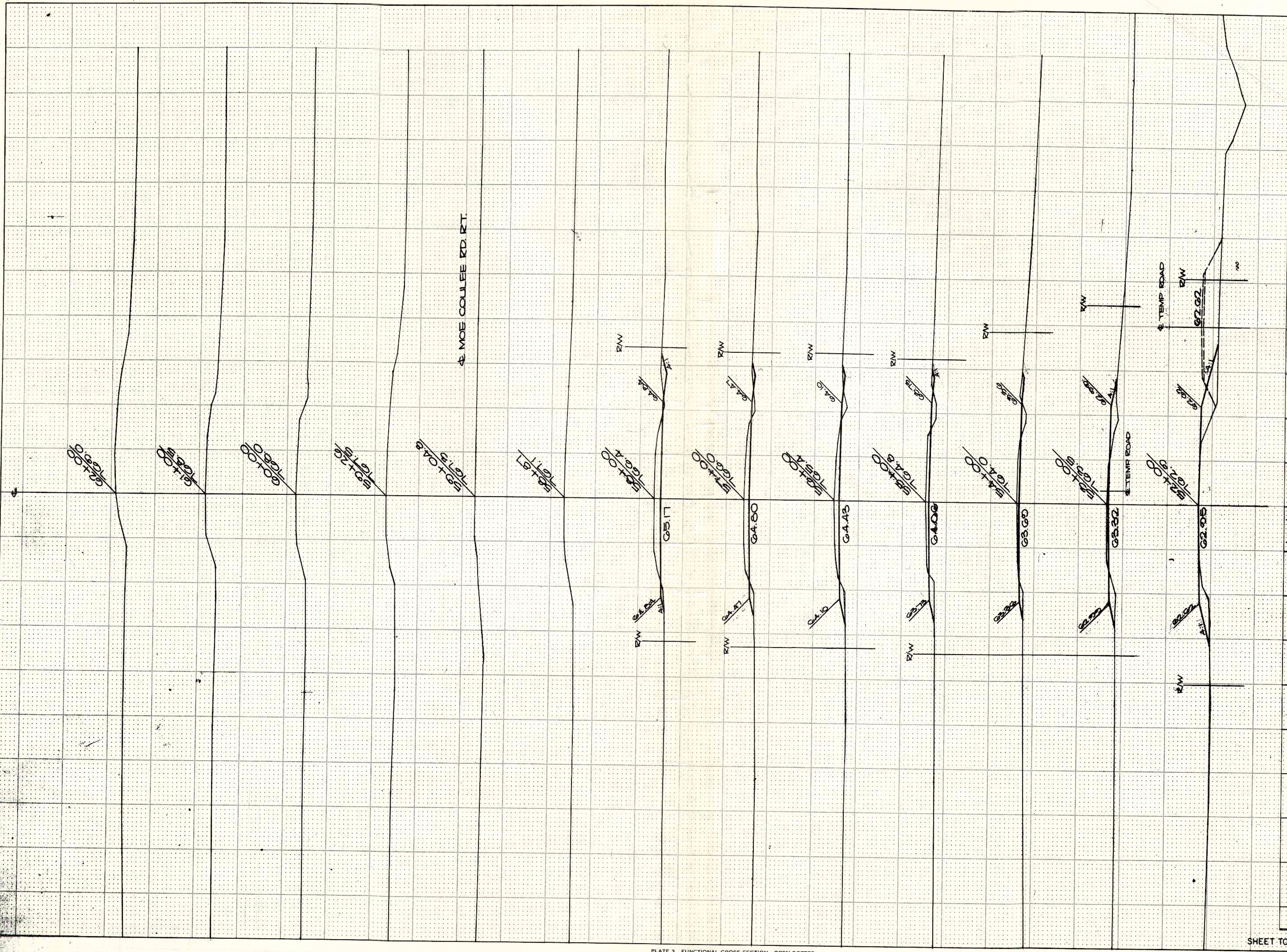


STATION	DISTANCE	YARDAGE EXCAVATION UNCL.				FILL
44+00						
		416				15
45+00						
		487				11
46+00						
		394				18
47+00						
		68				10
47+30						
		103				39
48+00						
		48				32
48+50						
		24				81
49+00						
		11				165
49+70						
		0				480
50+50						
		0				357
51+00						
P.E. 48+11 LT.		0				10
P.E. 49+34 RT.		0				70
SHEET TOTAL		1551				1287

NOTE BOOK NO. L.L.	AREAS G.H.N. 3-66	AREAS CHECKED I.B.M. 3-66

B.P.R. REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	S 1459(2)	12	14

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

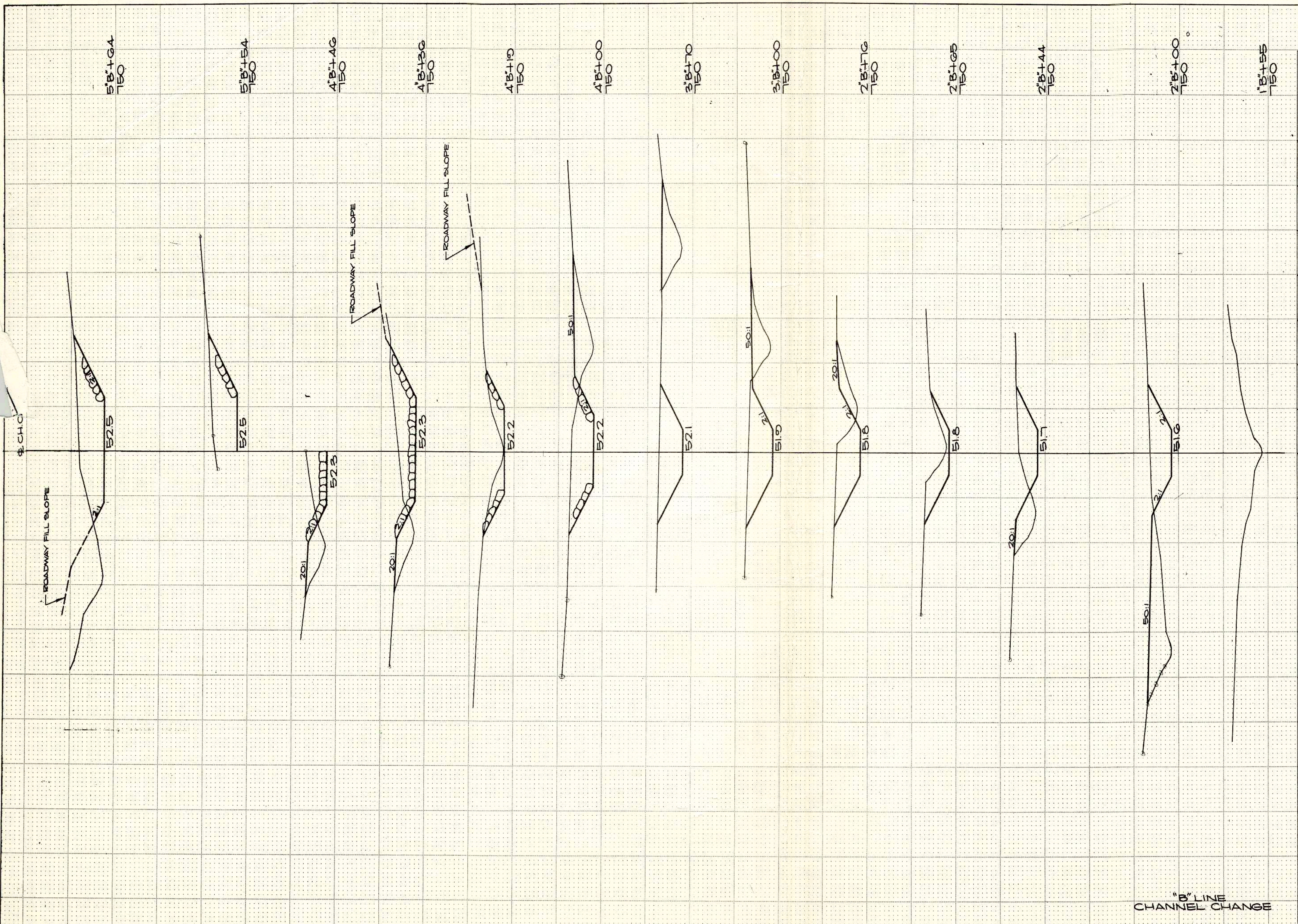


STATION	DISTANCE	YARDAGE EXCAVATION UNCL.				FILL
51+00						
		0				512
52+00						
		6				184
53+00						
		24				77
54+00						
		56				53
55+00						
		80				51
56+00						
		119				38
57+00						
		102				20
58+00						
		46				2
58+50						
SHEET TOTAL		502				[illegible]

ORIGINAL SURVEY
NOTE BOOK NO. L.L.
SURVEYED J.B.K. 11-65
PLOTTED J.B.K. 12-65
TEMPLATE G.H.N. 2-66
AREAS 3-66
AREAS CHECKED L.B.M. 5-66

B.P.R. REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	S 1459(2)	13	14

NO. L.L. AREAS J.B.K. 4-66
AREAS CHECKED C.H.N. 4-66



STATION	DISTANCE	YARDAGE EXCAVATION UNCL.				FILL
1"B"+55						
		83				93
2"B"+00						
		135				122
2"B"+44						
		48				15
2"B"+65						
		28				6
2"B"+76						
		85				33
3"B"+00						
		285				131
3"B"+70						
		128				67
4"B"+00						
		63				22
4"B"+19						
		57				11
4"B"+36						
		33				15
4"B"+46						
		B-32-66				
5"B"+54						
		54				0
5"B"+64						
SHEET TOTAL		999				515

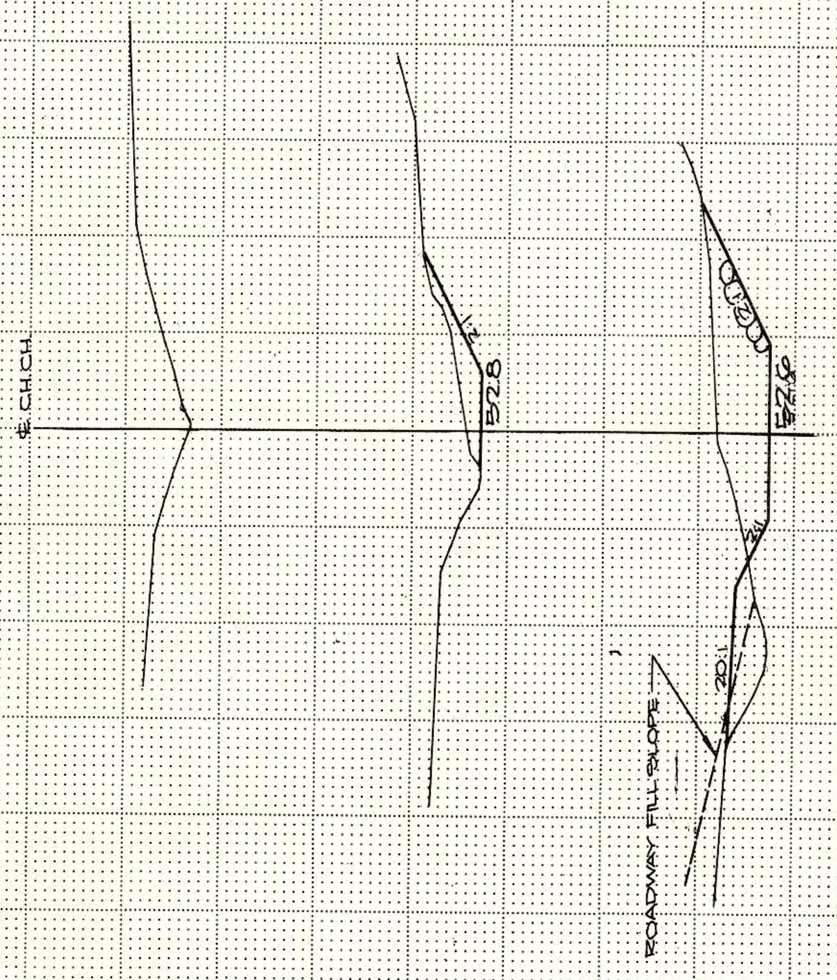
"B" LINE
CHANNEL CHANGE

B.P.R. REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	S 1459(2)	14	14

7"B"+00 750

6"B"+50 750

6"B"+00 750



"B" LINE
CHANNEL CHANGE

STATION	DISTANCE	YARDAGE EXCAVATION UNCL.				FILL
5"B"+64						
		206				13
6"B"+00						
		159				19
6"B"+50						
		37				[illegible]
7"B"+00						
SHEET TOTAL		402				32

NOTE BOOK	
NO. L1	
TEMPLATE	J.B.K. 4-66
AREAS	J.B.K. 4-66
AREAS CHECKED	C.H.N. 4-66

NOTE BOOK	TEMPLATE
NO.	AREAS
	AREAS CHECKED