

OUTAGAMIE

6517-06-73

2-4-97

INDEX OF SHEETS

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Sheet No. 9-9.2	Computer Earthwork Data
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TOTAL SHEETS = 63

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

CTH 0 - CTH A
CTH S INTERSECTIONS
STH 76
OUTAGAMIE COUNTY

STATE PROJECT NUMBER
6517-06-73

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
6517-06-73		

GRADING
PLAN
R/W PLAT



DESIGN DESIGNATION

A.D.T. 1997	2,175
A.D.T. 2007	3,225
D.H.V. 2017	435
D.	60/40
T.	12.2%
V.	80 km/h
ESALS	1,335,900

CONVENTIONAL SYMBOLS

COUNTY LINE	— — — — —
CORPORATE LIMITS	— — — — —
PROPERTY LINE	— — — — —
LOT LINE	— — — — —
LIMITED EASEMENT	— — — — —
EXISTING RIGHT OF WAY	— — — — —
PROPOSED OR NEW R/W LINE	— — — — —
SURVEY LINE	— — — — —
SLOPE INTERCEPT	— — — — —
ORIGINAL GROUND	— — — — —
MARSH OR ROCK PROFILE	— — — — —
EXISTING CULVERT	— — — — —
PROPOSED CULVERT (Box or Pipe)	— — — — —
CULVERT (Profile View)	— — — — —

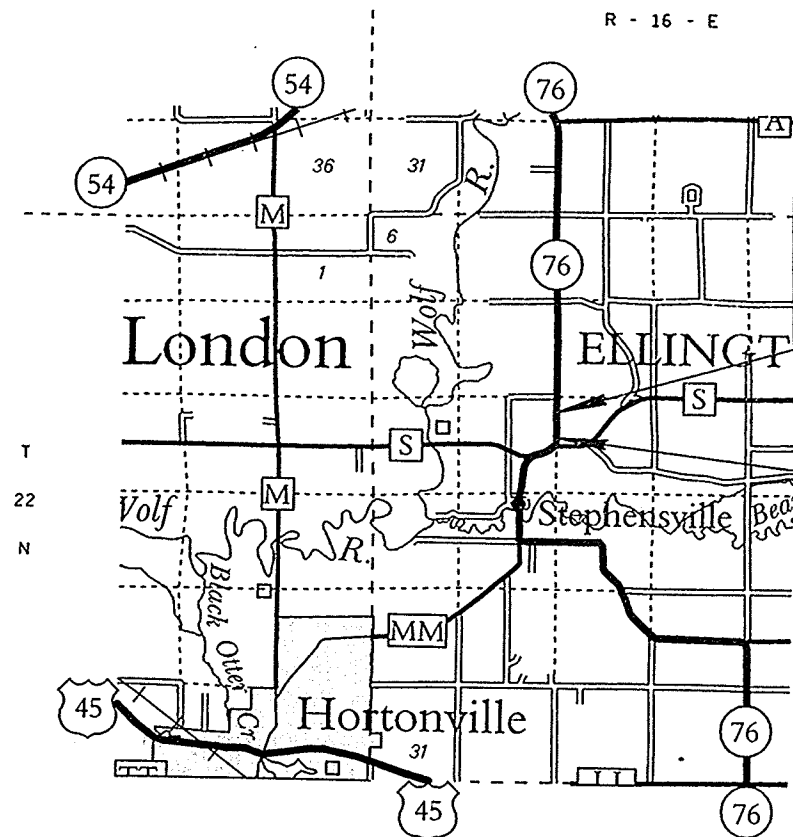
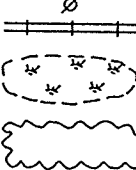
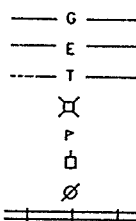
COMBUSTIBLE FLUIDS

UNDERGROUND UTILITIES

GAS	— G —
ELECTRIC	— E —
TELEPHONE OR TELEGRAPH	— T —
SERVICE PEDESTAL	— P —
CABLE MARKER	— C —
POWER POLE	— P —
TELEPHONE POLE	— T —
RAILROAD	— R —

MARSH AREA

WOODED OR SHRUB AREA

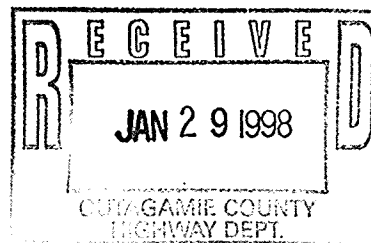


LAYOUT
SCALE 0 2.5 km

TOTAL NET LENGTH OF CENTERLINE = 0.415 km
TOTAL NET LENGTH OF CENTERLINE = 0.900 km (BY OTHERS)

END PROJECT
STA. 12+375 STH 76-NORTH

BEGIN PROJECT
STA. 11+960 STH 76-NORTH
X= 713485.696
Y= 62286.651



STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY	
Surveyor	DISTRICT 3
Designer	P. F. O'CONNOR
District Examiner	
District Supervisor	J. C. LAWERS
Proj. Dev. Engineer	
C.O. Examiner	

APPROVED FOR DISTRICT OFFICE
DATE: 9/17/97 P.F. O'Connor (Signature)

AUTHORIZED FOR CENTRAL OFFICE MAINTENANCE
DATE: 11/20/97 J. C. Lawers (Signature)

ALL COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COORDINATE SYSTEM SOUTH ZONE.

SURVEY BOOK NO. 1484

GRADING

S-27

S-27

M

PLOT SCALE: 5280

PLOT NAME: 103

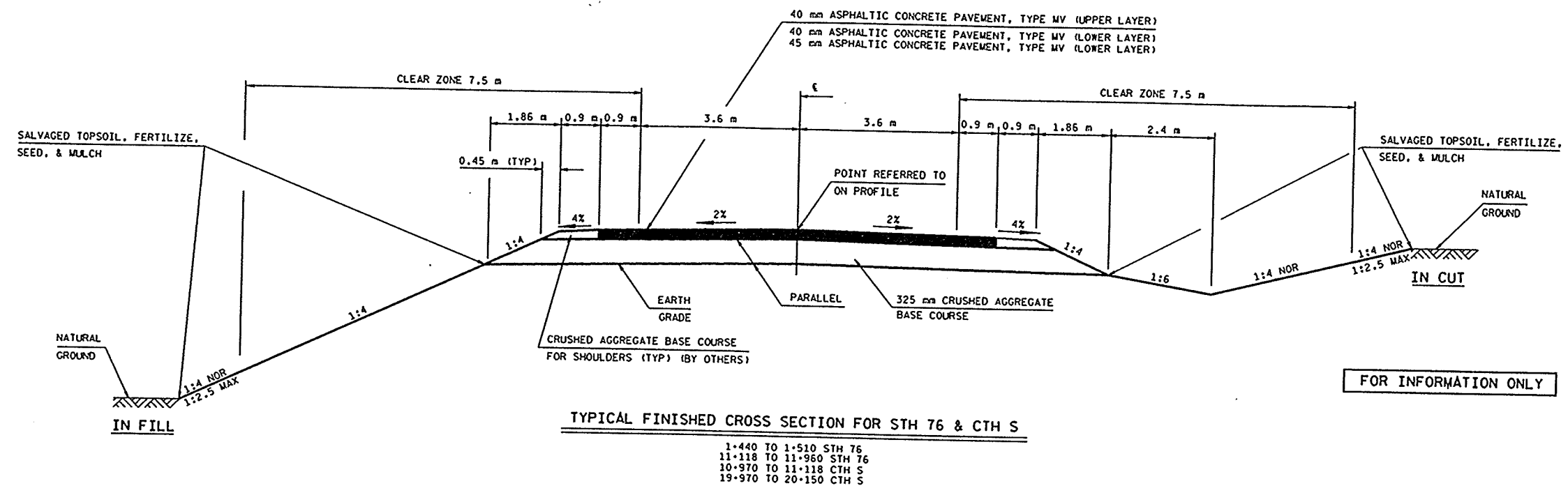
REV. DATE: 9-23-97

2-4-97

ORIGINATOR: DIST. 3 BALDWIN

FILE NAME: D3_651706103.dgn

ORIGINATOR: DISTRICT 3
LEVELS ON - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63
REV. DATE: 9-17-97
PLOT NAME: 200A
PLOT SCALE: S



UTILITIES

DIGGER'S HOTLINE 1-800-242-8511 (TOLL FREE)

AMERITECH
ATTN: JOHN STUMPF 920-735-3250
221 W WASHINGTON STREET
4TH FLOOR, OSPE
APPLETON, WISCONSIN 54911

WISCONSIN ELECTRIC POWER COMPANY
ATTN: JIM JACOBS 920-380-3445
FOX VALLEY DIVISION
P.O. BOX 1699
APPLETON, WISCONSIN 54913-1699

STEPHENSVILLE SANITARY DISTRICT
ATTN: DON TIMM 920-757-5886
W7887 MASON STREET
P.O. BOX 1699
HORTONVILLE, WISCONSIN 54944

TIME WARNER CABLEGENERAL NO.
ATTN: KATHY KEATING 920-749-1400
1001 KENNEDY AVENUE
P.O. BOX 145
KIMBERLY, WISCONSIN 54136

STANDARD DETAIL DRAWINGS

INLET COVERS	8A5-110, b & c
INLETS, TYPES 8, 9, 10 AND 11	8C5-2
INLETS, TYPES 1, 2, 3, AND 4	8C1-5
SOD OR MASONRY AND SOD DITCH CHECKS	8E4-2
SODDED BACKSLOPE FLUME	
AND INTERCEPTING EMBANKMENT	8E5-2
TYPICAL INSTALLATIONS OF EROSION BALES	8E8-2
SILT FENCE	8E9-4
APRON ENDWALLS FOR CULVERT PIPE	8F1-11
APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE	8F2-1
JOINT TIES FOR CONCRETE PIPE	8F4-5
AT-GRADE SIDE ROAD INTERSECTIONS, TYPES "B1", "B2", "C" AND "D" AND PASSING LANE	9A1-10a
AT-GRADE SIDE ROAD INTERSECTIONS, TYPE "A"	9A1-10b
MARKER POSTS FOR RIGHT-OF-WAY	15A1-6
BARRICADES AND SIGNS FOR ROAD CLOSURES	15C2-3
LANDMARK REFERENCE MONUMENTS AND COVERS	16A1-5

GENERAL NOTES

WHEN THE QUANTITY OF CRUSHED AGGREGATE BASE COURSE IS MEASURED FOR PAYMENT BY THE MG, THE DEPTH OR THICKNESS AS SHOWN ON THE PLAN IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND UPON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER IN THE FIELD.

THE EXACT LOCATIONS AND LIMITS OF PRIVATE ENTRANCES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

ALL DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS BETWEEN THE SUBGRADE SHOULDER POINTS, SHALL BE FERTILIZED, SEEDED AND MULCHED.

DISTURBED AREAS THAT WERE PREVIOUSLY LAWNS SHALL BE SEEDED WITH SEED MIXTURE NO. 40.

RUNOFF COEFFICIENT FOR THIS PROJECT: EXISTING PAVEMENT EXISTING SLOPES 0.21; NEW PAVEMENT 0.70 NEW SLOPES 0.34 TOTAL PROJECT AREA 2.0 HA TOTAL AREA DISTURBED 2.0 HA

THE ITEM "REMOVING OLD CULVERTS" WILL PERTAIN ONLY TO THOSE CULVERTS ENUMERATED IN THE SUMMARY OF MISCELLANEOUS QUANTITIES. ALL OTHER CULVERTS TO BE REMOVED WILL BE INCIDENTAL TO CULVERT INSTALLATION OR UNCLASSIFIED EXCAVATION.

FILL AS SHOWN ON THE PLAN PERTAINS TO EMBANKMENT CONSTRUCTED FROM ROCK EXCAVATION OR COMMON EXCAVATION. THE ALLOWANCE USED FOR EXPANDING THE FILLS TO COMPUTE THE VOLUME OF MATERIAL REQUIRED IS 1.33 FOR COMMON EXCAVATION, AND FOR ROCK EXCAVATION IS 1.10. E.B.S. IS NOT USED TO COMPUTE EARTHWORK BALANCES.

ALL DISTANCES AND STATIONING SHOWN ON THIS PLAN ARE GROUND VALUES. GRID VALUES ARE OBTAINED BY MULTIPLYING GROUND VALUES BY 0.999940.

BEARINGS ON THIS PLAN ARE GRID BEARINGS TO THE NEAREST SECOND.

ALL ELEVATIONS ON THIS PROJECT ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (N.G.V.D.).

LIMITED EASEMENTS FOR P.E. CONSTRUCTION HAVE BEEN OBTAINED AND THESE RIGHTS HAVE BEEN EXTENDED TO THE CONTRACTOR.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY FACILITIES AS SHOWN ON THE PLAN ARE APPROXIMATE. THERE MAY BE OTHER UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

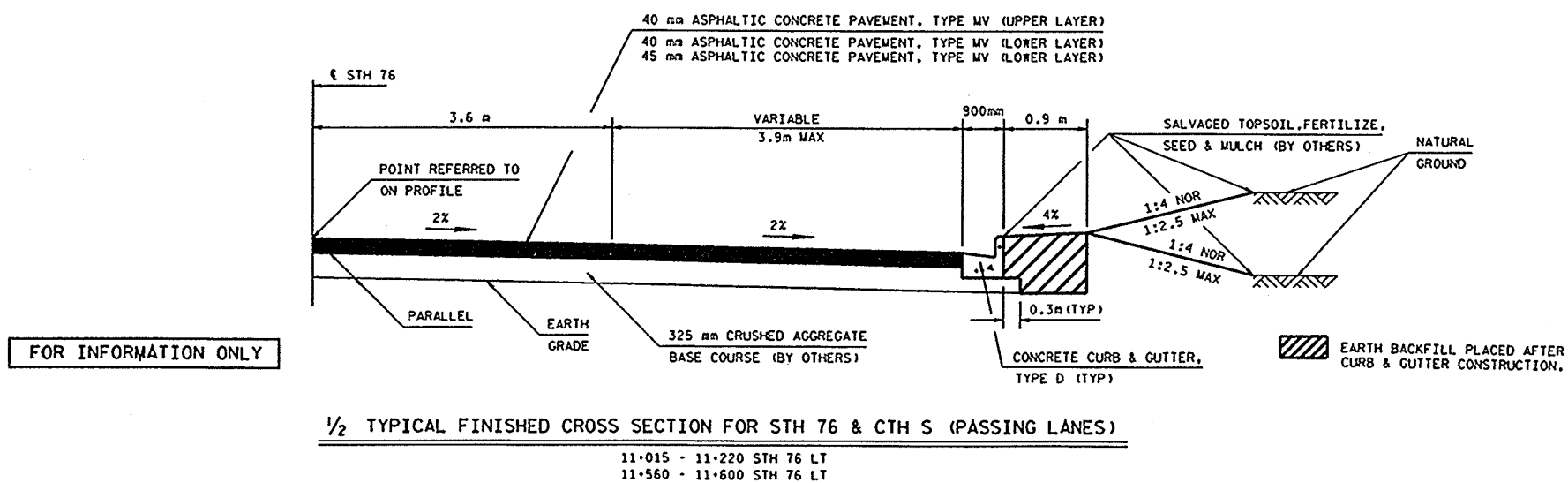
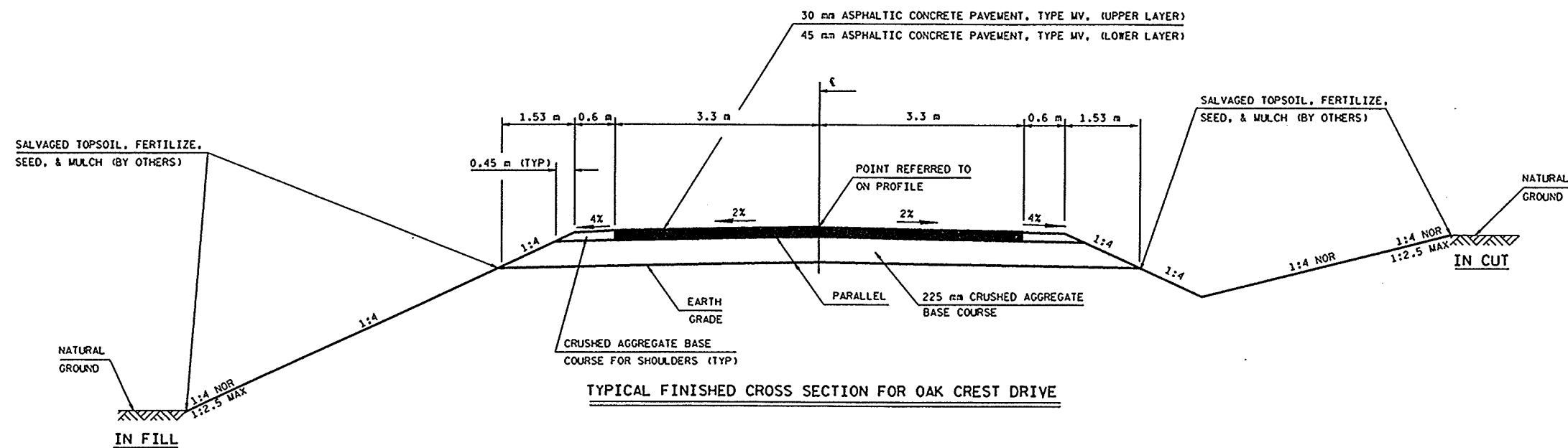
NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

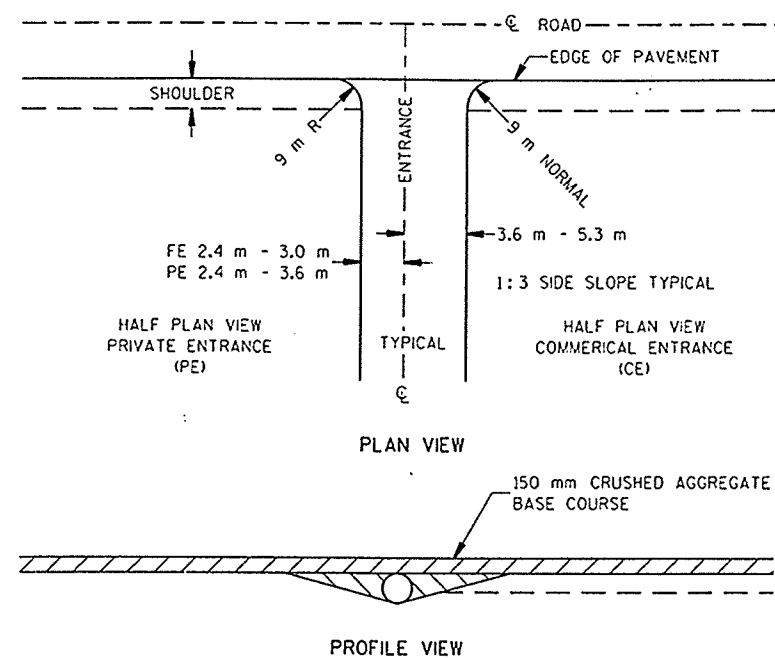
THE ELEVATIONS SHOWN ON THE ROADWAY CROSS SECTIONS ARE EARTH GRADE ELEVATIONS AT THE CENTERLINE OF THE ROADWAY.

ALL SILT FENCE REQUIRED FOR THIS PROJECT SHALL MEET THE REQUIREMENTS OF SILT FENCE FOR SILTY SOILS.

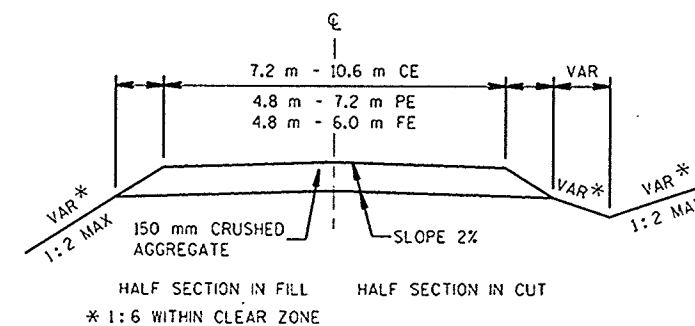
EXCAVATION BELOW SUBGRADE (E.B.S.), AS SHOWN ON THE PLAN AND PROFILE SHEETS, SHALL BE MEASURED AND PAID FOR AS UNCLASSIFIED EXCAVATION. THE EXACT LIMITS AND LOCATIONS ARE TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES SHOWN ON THE PLAN ARE APPROXIMATE AND SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

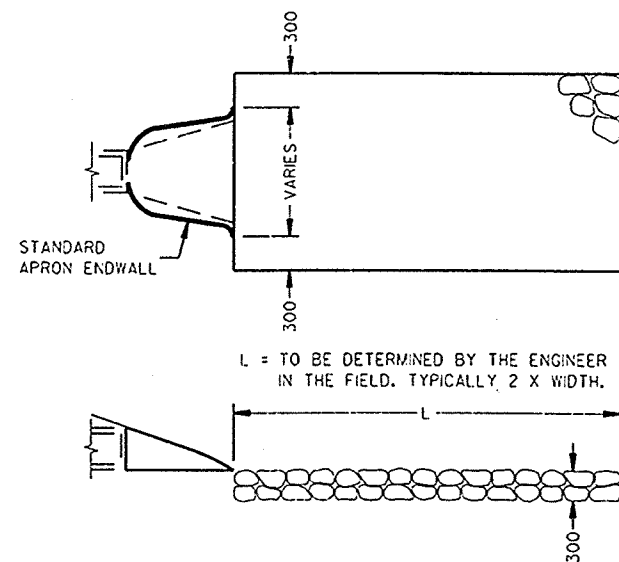




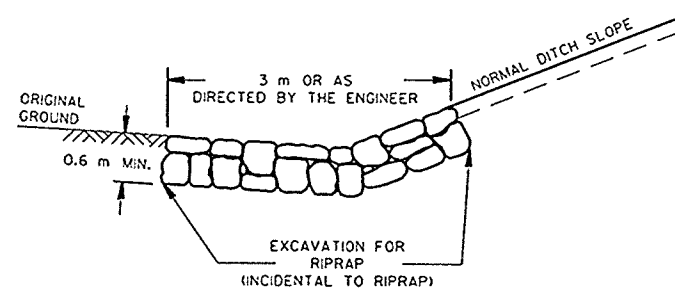
RURAL DRIVEWAY DETAIL



TYPICAL SECTION FOR PRIVATE ENTRANCES



RIPRAP DISCHARGE APRON



DETAIL FOR MEDIUM RANDOM RIPRAP DITCH CHECK

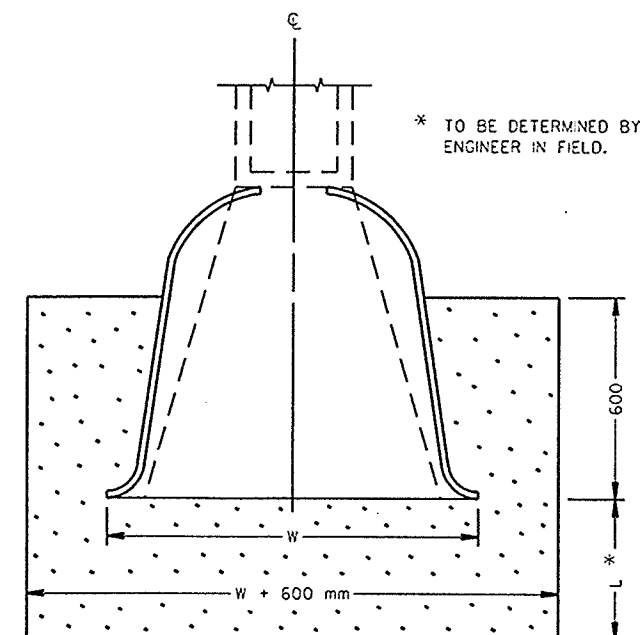
MINIMUM ROCK SIZE

DITCH CHECKS 4.5 m LONG

12" FOR SLOPES 7% OR LESS

18" FOR SLOPES OVER 7%, EXCEPT FOR MATERIALS TO FILL VOIDS.

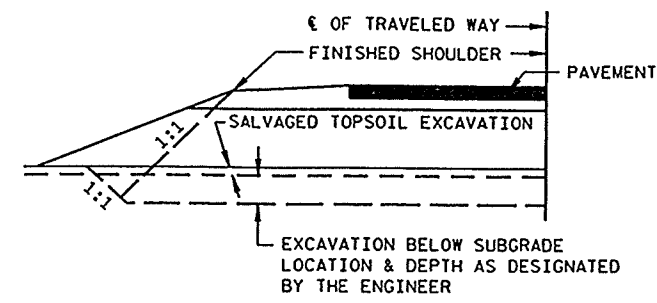
ROCK CAN BE MACHINE SELECTED AND MACHINE PLACED. FINISH NEED NOT BE SMOOTH.



SOD OR RIPRAP AT PIPE END

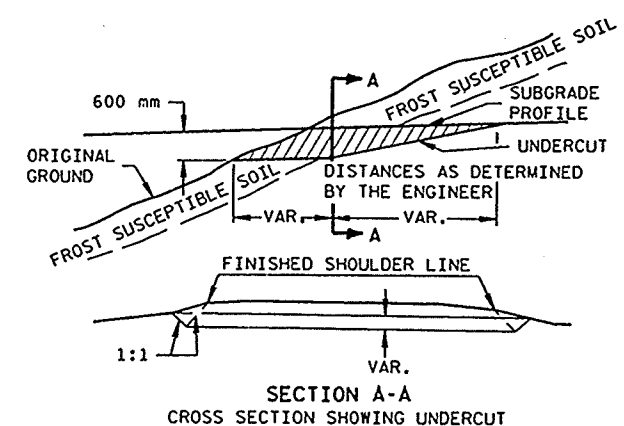
PLOT SCALE: 1:1

REV. DATE: 9-22-97
PLOT NAME: 201B
3-19-96
ORIGINATOR: BALDWIN
LEVELS ON - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63



DETAIL FOR EXCAVATION BELOW SUBGRADE

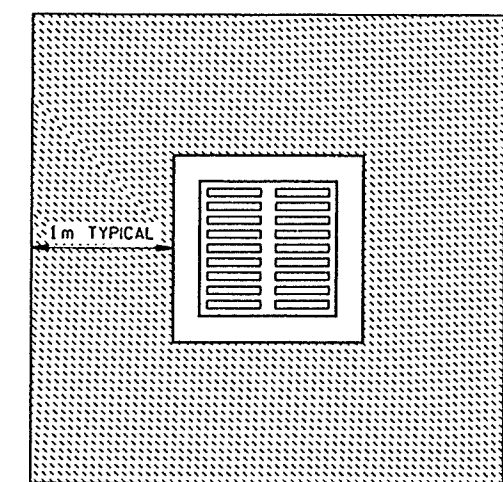
FOR INFORMATION ONLY



DETAIL FOR EXCAVATION BELOW SUBGRADE AT CUTS

FOR INFORMATION ONLY

NOTE:
EXACT LOCATIONS AND EXTENT OF E.B.S. SECTIONS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
E.B.S. AREA TO BE BACKFILLED WITH MATERIAL ACCEPTABLE TO THE ENGINEER.
BACKFILL MUST BE HOMOGENEOUS WITH ADJOINING FILL MATERIAL.
THE FILL SECTION WITHIN 30 m OF THE MOUTH OF THE CUT MUST BE KEPT 600 mm BELOW SUBGRADE UNTIL E.B.S. IS COMPLETED.



SOD AT INLETS
FOR INFORMATION ONLY

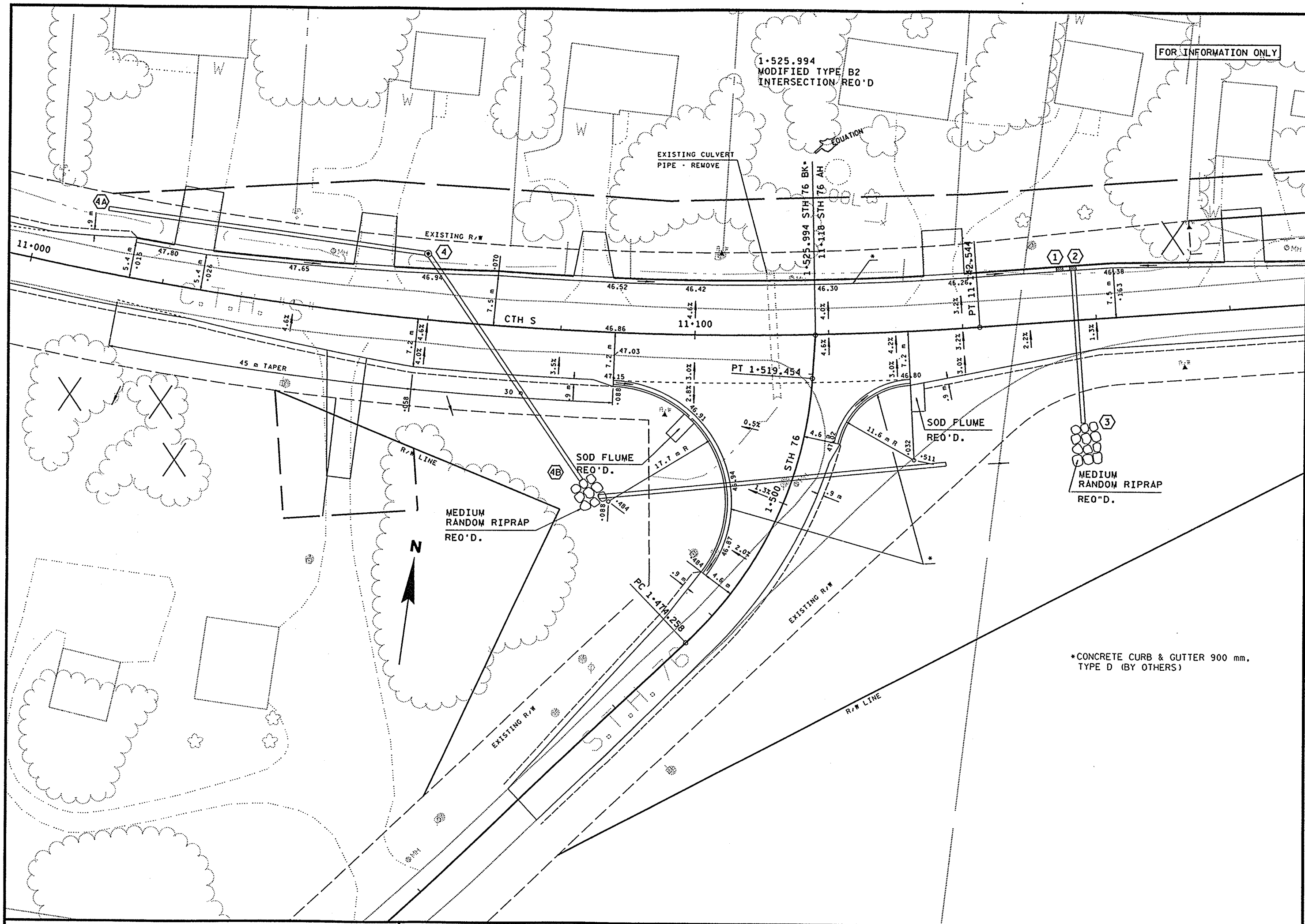
PLOT SCALE: 1:250

PLOT NAME: 202

REV. DATE: 9-16-97

3-11-96

ORIGINATOR: BALDWIN
LEVELS ON: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63



SCALE: 1:250

HWY: STH 76

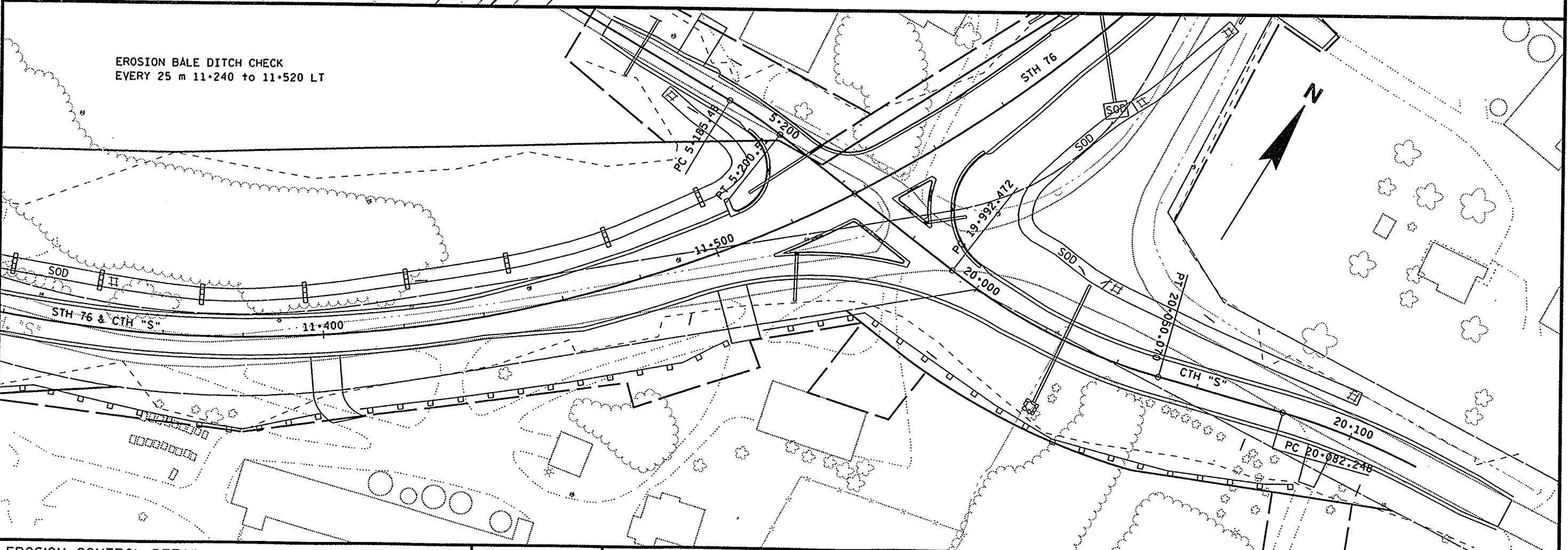
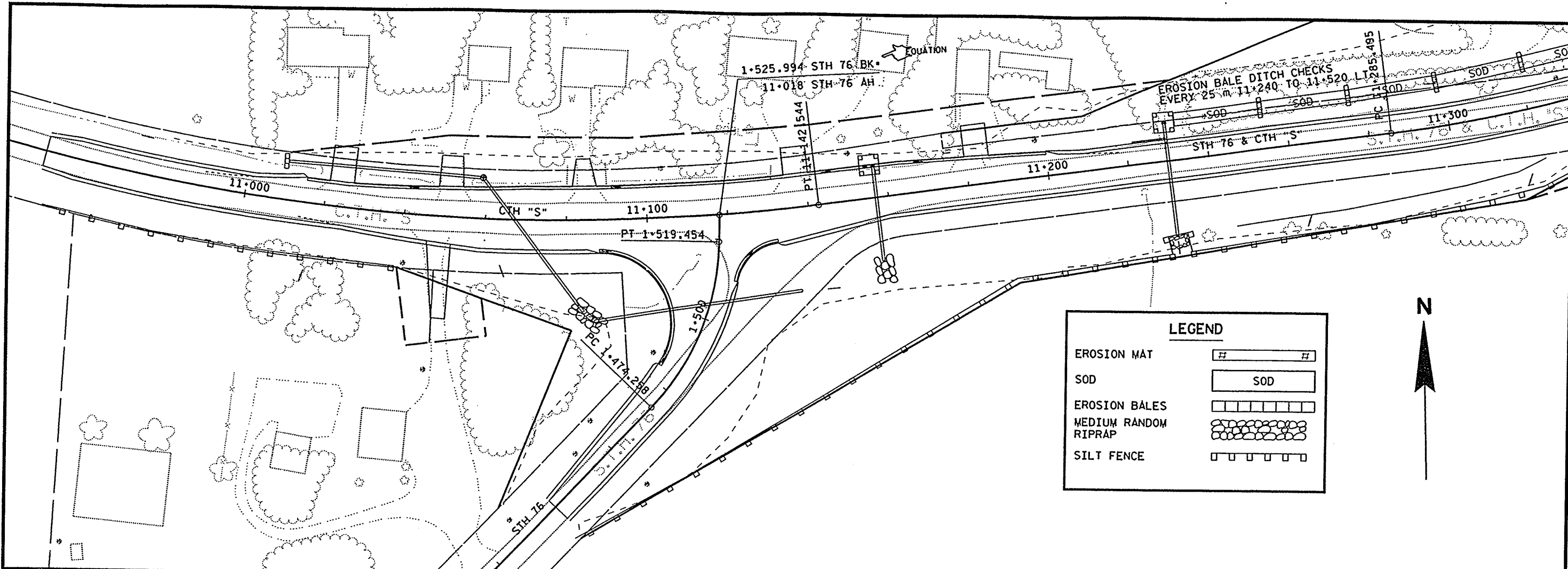
COUNTY: OUTAGAME

STATE PROJECT NO: 6517-06-73

SHEET NO: 25

M

REV. DATE: 9-16-97
ORIGINATOR: KRUEGER 7-5-99
LEVELS ON: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63
PLOT NAME: 205E1
PLOT SCALE: 500:1

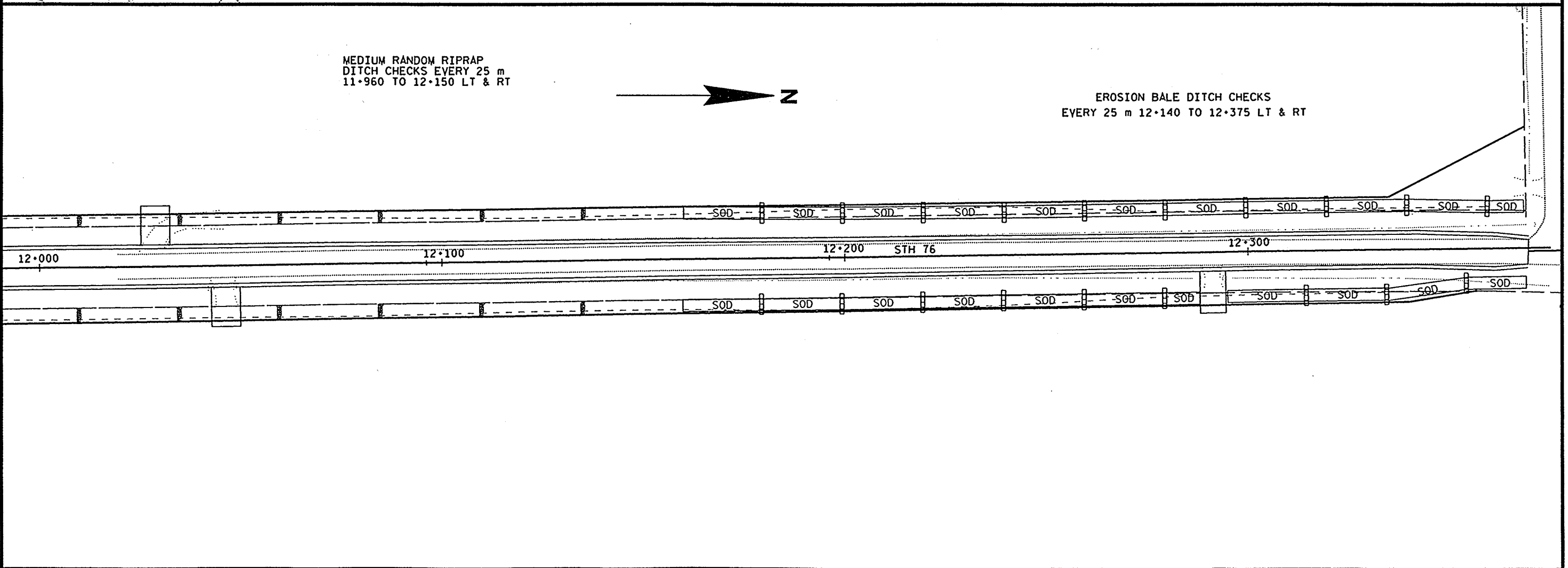
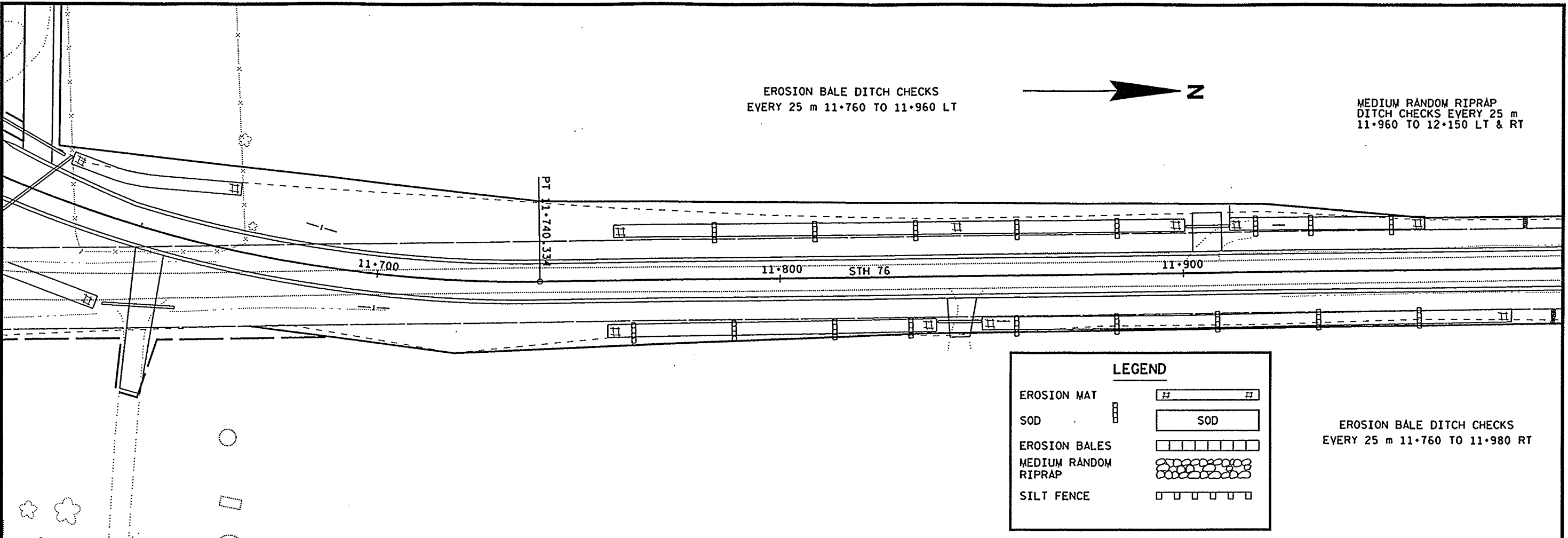


PLOT SCALE: 500:1

PLOT NAME: 205E2

REV. DATE: 9-16-97

ORIGINATOR: KRUEGER 7-11-96
LEVELS ON: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63



ESTIMATE OF QUANTITIES

6517-06-73

LINE NO.	ITEM NUMBER	ITEM DESCRIPTION	ESTIMATED QUANTITY	ITEM UNIT
0010	20501	COMMON EXCAVATION	2,734.000	M3
0015	30416	HAULING AND PLACING CRUSHED AGGREGATE BASE COURSE	2,500.000	MG
0020	52003	CULVERT PIPE, CLASS III, 450 MM	90.000	M
0025	52061	APRON ENDWALLS FOR CULVERT PIPE, 450 MM	6.000	EACH
0030	60604	MEDIUM RANDOM RIPRAP	130.000	M3
0035	61910	MOBILIZATION	(1.000)	EACH
0040	62101	LANDMARK REFERENCE MONUMENTS	2.000	EACH
0045	62401	WATER	115.000	KL
0050	62505	SALVAGED TOPSOIL	5,470.000	M2
0055	62702	MULCHING	5,470.000	M2
0060	62811	EROSION BALES, DELIVERED	48.000	EACH
0065	62812	EROSION BALES, INSTALLED	48.000	EACH
0070	62824	EROSION MAT, DELIVERED, CLASS I, TYPE B	410.000	M2
0075	62825	EROSION MAT, INSTALLED, CLASS I, TYPE B	410.000	M2
0080	62905	FERTILIZER, TYPE B	190.000	KG
0085	63008	SEEDING, MIXTURE NO. 10	55.000	KG
0090	63101	SODDING	410.000	M2
0095	64505	GEOTEXTILE FABRIC, TYPE R	216.000	M2
0100	90001	MISC CONSTRUCTION STAKING, PRELIMINARY	415.000	M
0105	90001	MISC 90001A CONSTRUCTION STAKING, SUBGRADE, S	415.000	M

() WILL BE BID AS LUMP

PLOT SCALE: 1:1

PLOT NAME: D300A

5/

REV. DATE: 2-6-97

22.

ORIGINATOR: O'CONNOR
LEVELS ON

EARTHWORK SUMMARY						BASE COURSE SUMMARY			
STATION TO STATION	LOCATION	COMMON EXCAVATION m3	ROCK EXCAVATION m3	E.B.S. m3	FILL m3	STATION TO STATION	LOCATION	CRUSHED AGGREGATE BASE COURSE ROADWAY Mg	WATER KL
PROJECT 6517-6-73						PROJECT 6517-6-73			
11+960 - 12+360	STH 76	2734			446	11+960 - 12+375	STH 76	2500	115
	TOTALS	2734	0	0	446		TOTAL	2500	115

CLEARING AND GRUBBING					PRIVATE ENTRANCE PIPE SUMMARY											
STATION TO STATION	LOCATION	CLEARING 40m 25mm		GRUBBING 40m 25mm		STATION	LOCATION	P.E.	F.E.	C.E.	C.P. 450mm m	RCCP CL.	THICKNESS STEEL mm	APRON ENDWALL FOR C.P. 450mm EACH	EST. TOP WIDTH m	REMARKS
PROJECT 6517-6-73					PROJECT 6517-6-73											
11+960 - 12+375	STH 76		**		**	12+030	STH 76 LT.		X		30	III	1.600	2	5.0	
						12+045	STH 76 RT.		X		30	III	1.600	2	5.0	
						12+290	STH 76 RT.		X		30	III	1.600	2	5.0	
						PROJECT TOTALS					90			6		
NOTE: ** DENOTES METHOD OF MEASUREMENT FOR CLEARING AND GRUBBING.																

REMOVING ASPHALTIC SURFACE, MILLING				LANDMARK REFERENCE MONUMENTS			
STATION TO STATION	LOCATION	REMOVING PAYEMENT Mg	REMARKS	STATION TO STATION	LOCATION	EACH	REMARKS
PROJECT 6517-6-73				NW SEC 16 T-22-N R-16-E			
11+960 - 12+375	STH 76	5	MILL TO CROWN			2	REF. MON.
				NOTE: HARRISON MONUMENTS FOR SECTION CORNERS CAN BE OBTAINED FROM THE OUTAGAMIE CO. SURVEYOR, JAMES HEBERT 920-832-5255.			

CONSTRUCTION STAKING SUMMARY				LANDSCAPING SUMMARY							
STATION TO STATION	LOCATION	PRELIMINARY m	SUBGRADE m	STATION TO STATION	LOCATION	SALVAGED TOPSOIL m2	SEED NO. 10 kg	SEED NO. 20 kg	SEED NO. 40 kg	FERTILIZER TYPE B kg	MULCH m2
PROJECT 6517-6-73				PROJECT 6517-6-73							
11+960 - 12+375	STH 76	415	415	11+960 - 12+370	STH 76	5470	55			190	5470

EROSION CONTROL SUMMARY												
STATION TO STATION	LOCATION	EROSION MAT CLASS I, TYPE B		EROSION BALES		SILT FENCE FOR SILTY SOILS		SILT FENCE MAINTAINED m	MEDIUM RANDOM RIP RAP m3	SODDING m2	GEOTEXTILE FABRIC TYPE R m2	REMARKS
		DELIVERED m2	INSTALLED m2	DELIVERED EACH	INSTALLED EACH	DELIVERED m	INSTALLED m					
PROJECT 6517-6-73												
11+960 - 12+160	STH 76 LT.								65.0		108	DITCH CHECKS @ 25m INTERVALS BALES @ 25m INTERVALS DITCH CHECKS @ 25m INTERVALS BALES @ 25m INTERVALS
12+160 - 12+365	STH 76 LT.			24	24							
11+980 - 12+160	STH 76 RT.								65.0		108	
12+160 - 12+360	STH 76 RT.	410	410	24	24							
	PROJECT TOTALS	410	410	48	48	0	0	0	130.0	410	216	

PLOT SCALE: 1:1

PLOT NAME: D300A

51

REV. DATE: 9-19-97

22

ORIGINATOR: O'CONNOR
LEVELS ON

EARTHWORK SUMMARY						
STATION TO STATION	LOCATION	COMMON EXCAVATION m3	ROCK EXCAVATION m3	E.B.S. m3	FILL m3	WASTE m3
10+980 - 11+375	CTH S - STH 76	8 610	559	174	6 935	
1+440 - 1+518.8	STH 76 SOUTH	172			3 025	
11+375 - 11+960	STH 76	25 692	1 463	425	2 281	18 844
19+970 - 20+140	CTH S EAST	195			4 279	
5+150 - 5+210	OAKCREST DR.	1 057			206	
TOTALS		36 726	2 022	599	16 726	18 844

FOR INFORMATION ONLY (BY OTHERS)				
BASE COURSE SUMMARY				
STATION TO STATION	LOCATION	HALLING & PLACING CRUSHED AGGREGATE BASE COURSE ROADWAY Mg	WATER KL	CALCIUM CHLORIDE, SURFACE TREATMENT Mg
1+440 - 1+520	STH 76 SOUTH	950	45	75
11+160 - 11+460	STH 76	3050	135	
11+460 - 11+600	STH 76	1900	85	
11+600 - 11+960	STH 76	3700	160	
10+970 - 11+160	CTH S WEST	1950	85	120
19+970 - 20+150	CTH S EAST	2100	95	100
5+150 - 5+210	OAKCREST DRIVE DRIVEWAYS	350 200	15 15	40
TOTALS		14 200	635	335

REMOVING OLD CULVERTS			
STATION	LOCATION	L.S.	REMARKS
11+223	STH 76	1	3 FT X 5 FT CONCRETE BOX WITH C.M.C.P. EXTENSION RIGHT
11+112	CTH S WEST	1	C.M.C.P.
20+013	CTH S EAST	1	C.M.C.P. IN OLD ROADWAY
TOTALS		3	

PRIVATE ENTRANCE PIPE SUMMARY										
STATION	LOCATION	P.E.	F.E.	C.E.	C.P.	R.C.C.P.	THICKNESS	APRON ENDWALL	EST.	REMARKS
					450mm	CL.	STEEL	FOR C.P. STEEL	TOP	
					m		mm	450mm	WIDTH	
								EACH	m	
11+139	STH 76 LT.	X							5.0	CURB & GUTTER SECTION
11+183	STH 76 LT.	X							5.0	CURB & GUTTER SECTION
11+210	STH 76 LT.	X			21	III	1.600	2	5.0	
11+400	STH 76 RT.			X					7.5	HIGH POINT
11+500	STH 76 RT.			X					7.5	HIGH POINT
11+610	STH 76 LT.	X			14	III	1.600	2	5.0	
11+635	STH 76 RT.			X	26	III	1.600	2	7.5	
11+845	STH 76 RT.		X		30	III	1.600	2	5.0	
11+905	STH 76 LT.		X		30	III	1.600	2	5.0	
11+025	CTH S WEST LT.	X							5.0	CURB & GUTTER SECTION
11+048	CTH S WEST RT.			X					7.5	HIGH POINT
11+052	CTH S WEST LT.	X							5.0	CURB & GUTTER SECTION
11+085	CTH S WEST LT.	X							5.0	CURB & GUTTER SECTION
20+015	CTH S EAST RT.		X						7.5	HIGH POINT
20+090	CTH S EAST RT.	X							5.0	HIGH POINT
5+170	OAKWOOD DRIVE LT.		X						7.5	HIGH POINT
TOTALS					121			10		

SITE CLEARANCE, PARCEL		
STATION	LOCATION	L.S.
11+300	STH 76 LT.	1

CLEARING AND GRUBBING					
STATION TO STATION		LOCATION	CLEARING 40m 25mm	GRUBBING 40m 25mm	
1+400 - 1+520	STH 76 SOUTH		**	**	
11+160 - 11+200	STH 76		30	30	
11+200 - 11+420	STH 76		6	6	
11+420 - 11+520	STH 76		**	**	
11+520 - 11+600	STH 76		45	45	
11+600 - 11+960	STH 76		**	**	
10+970 - 11+160	CTH S WEST		102	102	
19+980 - 20+150	CTH S EAST		61	61	
5+100 - 5+210	OAKCREST DRIVE WEST		8	8	
TOTALS			6	246	6 246

NOTE: ** DENOTES METHOD OF MEASUREMENT FOR CLEARING AND GRUBBING.

REMOVING PAVEMENT		
STATION TO STATION	LOCATION	REMOVING PAVEMENT m2
1+440 - 1+520	STH 76 SOUTH	250
11+100 - 11+960	STH 76	5250
10+970 - 11+100	CTH S WEST	
19+980 - 20+150	CTH S EAST	
5+100 - 5+210	OAKCREST DRIVE	
TOTALS		5500

PLOT SCALE: 1:1
PLOT NAME: D300A
59.
51.
REV. DATE: 9-19-97

22.
ORIGINATOR: O'CONNOR
LEVELS ON

LANDMARK REFERENCE MONUMENTS

FOR INFORMATION ONLY
(BY OTHERS)

STATION TO STATION LOCATION EACH REMARKS
W/4SEC 16 T-22-N R-16-E 4 REF. MON.

NOTE: HARRISON MONUMENTS FOR SECTION CORNERS CAN BE OBTAINED FROM THE OUTAGAMIE CO. SURVEYOR, JAMES HEBERT 920-832-5255.

CONSTRUCTION STAKING SUMMARY

STATION TO STATION	LOCATION	PRELIMINARY m	SUBGRADE m	STORM SEWER EACH	PIPES EACH
1+440 - 1+520	STH 76 SOUTH	80	80		1
11+160 - 11+440	STH 76	280	280	2	
11+440 - 11+600	STH 76	160	160	2	1
11+600 - 11+960	STH 76	340	340		
10+970 - 11+160	CTH S WEST	190	190	6	
19+970 - 20+150	CTH S EAST	220****	220****	2	1
5+150 - 5+210	OAKWOOD DRIVE	60	60	2	
TOTALS		1330	1330	14	3

**** INCLUDES TURN LANES.

LANDSCAPING SUMMARY

STATION TO STATION	LOCATION	SALVAGED TOPSOIL m2	SEED NO. 10 kg	SEED NO. 20 kg	SEED NO. 40 kg	FERTILIZER TYPE B kg	MULCH m2
10+970 - 11+960	CTH S - STH 76	28 530	133	86	94	1000	28 530
1+430 - 1+519	STH 76 SOUTH	2500	20		5	88	2500
19+980 - 20+150	CTH S EAST	4000	30		10	140	4000
5+145 - 5+210	OAKCREST DRIVE WASTE SITE	650	4		3	23	650
		10 500	105			370	
TOTALS		46 180	292	86	112	1621	35 680

EROSION CONTROL SUMMARY

STATION TO STATION	LOCATION	EROSION MAT CLASS I, TYPE B		EROSION BALES		SILT FENCE FOR SILTY SOILS		SILT FENCE MAINTAINED m	MEDIUM RANDOM RIP RAP m3	SODDING m2	GEOTEXTILE FABRIC TYPE R m2	REMARKS
		DELIVERED m2	INSTALLED m2	DELIVERED EACH	INSTALLED EACH	DELIVERED m	INSTALLED m					
1+440 - 1+520	STH 76 SOUTH RT.					95	95	95				ALONG FILL SLOPE AROUND INLETS
11+156 - 11+160	STH 76 LT.					10	10	10				
11+230	STH 76 RT.								12.0		24	
11+150 - 11+520	STH 76 RT.					370	370	370				25 m INTERVALS
11+230 - 11+520	STH 76 LT.			36	36							
11+230 - 11+340	STH 76 LT.									220		
11+340 - 11+520	STH 76 LT.	330	330									BALES 25m INTERVALS BALES 25m INTERVALS ALONG FILL SLOPE
11+540 - 11+600	STH 76 RT.									120		
11+600 - 11+635	STH 76 RT.	80	80									
11+610 - 11+660	STH 76 LT.	100	100									ALONG FILL SLOPE
11+760 - 11+960	STH 76 LT.	400	400	24	24							
11+760 - 11+980	STH 76 RT.	440	440	27	27							
10+970 - 11+050	CTH S WEST RT.			3	3	80	80	80				ALONG FILL SLOPE
11+000	CTH S WEST RT.								7.5		15	
19+980 - 20+100	CTH S EAST RT.					125	125	125				
20+025	CTH S EAST RT.								12.0		24	ALONG FILL SLOPE
19+900 - 20+025	CTH S EAST LT.									90		
20+025 - 20+100	CTH S EAST LT.	140	140									
5+180 - 5+210	OAKWOOD DR RT.	80	80									
TOTALS		1570	1570	90	90	680	680	680	31.5	430	63	

DETAIL SUMMARY OF MISCELLANEOUS QUANTITIES

SCALE: 1:1

HWY: STH 76

COUNTY: OUTAGAMIE

STATE PROJECT NO: 6517-06-73

SHEET NO: 3.C

M 13

FILE NAME: D3 651706:300.DGN

PLOT SCALE: 1:1

PLOT NAME: D300D

5/

REV. DATE: 9-19-97

22

ORIGINATOR: O'CONNOR
LEVELS ON

FOR INFORMATION ONLY
(BY OTHERS)

STATION	LOCATION	C.P.		THICKNESS STEEL mm	RCCP mm	INLET ELEVATION	DISCHARGE ELEVATION	A.E. FOR C.P.		REMARKS
		450mm	600mm					450mm	600mm	
		m	m					EACH	EACH	
1+504	STH 76 SOUTH	52		1.600	III	242.80	243.00	2		SKEW 24 RHF SKEW 30 LHF
11+611	STH 76 NORTH		31	1.600	III	257.00	256.30		2	
11+010	CTH S WEST		18	1.600	III	246.91	245.00		2	
20+025	CTH S EAST		32	1.600	III	254.00	252.00		2	
5+160	OAKCREST	18		1.600		259.20	257.00	2		
TOTALS		70	81					4	6	

STRUC. NO.	STATION	LOCATION	INLETS			MANHOLES TYPE 3 EACH	RCCP ENDWALLS			STRUCTURE COVERS			GRATE	TOP OF COVER ELEVATION	TOP OF STRUCTURE ELEVATION	FLOWLINE ELEVATION	DEPTH m
			TYPE 3		TYPE 9		450mm	600mm	750mm	TYPE H	TYPE J	TYPE MS					
			EACH	EACH	EACH		EACH	EACH	EACH	EACH	EACH	EACH					
1	11+155	STH 76 LT. 7.8m	1							1			RIGHT LEFT	246.12	245.84	244.82	1.02
2	11+157	STH 76 LT. 7.8m	1							1				246.12	245.83	244.77	1.06
3	11+157	STH 76 RT. 15m							1							243.50	
4A	11+010	CTH S WEST LT. 10.5m		1								2			246.90	245.50	1.40
4B	11+060	CTH S WEST LT. 11.0m				1					1			247.00	246.63	245.00	1.13
4C	11+080	CTH S WEST RT.						1									
5	11+230	STH 76 LT. 11.5m		1								2			245.70	244.50	1.20
6	11+230	STH 76 RT. 18.5m							1							244.00	
7	5+210	OAKCREST DRIVE LT. 3.7m	1							1			LEFT	256.92	256.91	255.81	.83
8	11+513	STH 76 LT. 11m					1									255.75	
10	11+518	STH 76 LT. 12.5m	1							1			LEFT	256.38	256.10	255.10	1.00
11	11+513	STH 76 RT. 18m					1									255.30	
12	19+980	CTH S EAST LT. 5m	1							1			RIGHT	257.29	257.01	256.01	1.00
13	19+987	CTH S EAST LT. 12m					1									255.50	
TOTALS			5	2		1	4	1	1	5	1	4					

REINFORCED CONCRETE PIPE, STORM SEWER, CLASS III					
FROM	TO	450mm m	750mm m	INLET ELEVATION	DISCHARGE ELEVATION
1	2	2		244.82	244.77
2	3	23		244.77	243.50
4A	4B	42		245.50	245.00
4B	4C	41		245.00	244.50
5	6		30	244.50	244.00
7	8	15		256.82	255.75
10	11	14		255.10	255.30
12	13	18		256.00	255.50
TOTALS		155	30		

DRAIN TILE SUMMARY				
STATION	LOCATION	DRAIN TILE UNPERFORATED 150 mm m	REINF. CONC. APRON ENDWALLS FOR UNDERDRAIN EXPLORATION 150 mm EACH	DRAIN TILE m
11+610	STH 76 LT.	5	1	10
11+785	STH 76 LT.	5	1	10
TOTALS		10	2	20

NOTE: CONSULT PROPERTY OWNER FOR EXACT LOCATION.

PLOT SCALE: 5280

PLOT NAME: 101

REV. DATE: 5-13-96

3-4-96

ORIGINATOR: mason

FILE NAME: d3 651706101.dgn

CONVENTIONAL SIGNS AND ABBREVIATIONS

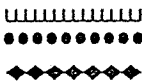
AC.	ACRES	m	METER
AC. REM.	ACRES REMAINING	P.	PAGE
A.P.	ACCESS POINT	PED	PEDESTAL
B.	BARN	O	R/W MONUMENT
BLDG.	BUILDING	P.L.	PROPERTY LINE
CO.	COMPANY	P.L.E.	PERMANENT LIMITED EASEMENT
CORP.	CORPORATION	P.L.	PROPERTY LINE
C.S.M.	CERTIFIED SURVEY MAP	-----	QUARTER LINE
C.T.H.	COUNTY TRUNK HIGHWAY	R.	RANGE
D.	DEED	RD.	ROAD
ET. AL.	AND OTHERS	R/W	RIGHT OF WAY
-----	EXISTING R/W LINE	S.	SHED
G.	GARAGE	-----	SECTION LINE
GN	GRID NORTH	S.F.	SQUARE FEET
H.	HOUSE	-----	SIXTEENTH LINE
ha	HECTARE	s.m.	SQUARE METER
INC.	INCORPORATED	S.T.H.	STATE TRUNK HIGHWAY
I.P.	IRON PIN	T.	TOWN
L.C.	LAND CONTRACT	TEMP.	TEMPORARY
km	KILOMETER	T.L.E.	TEMPORARY LIMITED EASEMENT
L.C.B.	LONG CHORD BEARING	VOL.	VOLUME
		WIS.	WISCONSIN

COMPENSABLE NON-COMPENSABLE

POWER POLE
TELEPHONE POLE
SIGN
TELEPHONE PEDESTAL



NO ACCESS (BY ACQUISITION)
NO ACCESS (BY STATUTORY AUTHORITY)
NO ACCESS (BY PREVIOUS PROJECT
OR COVENANT)

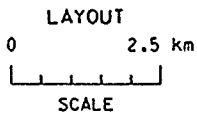
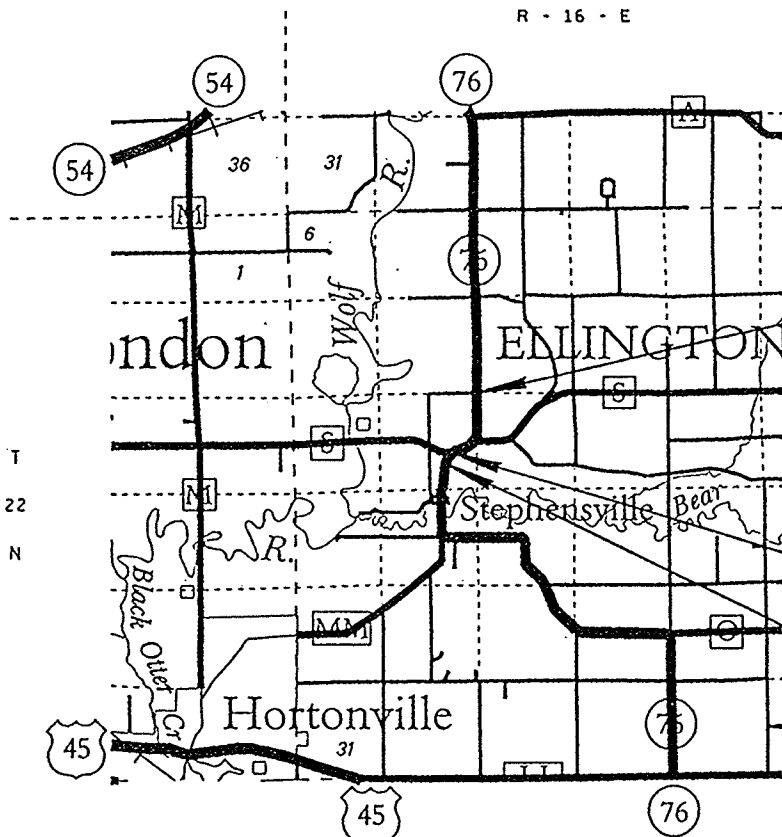


NOTES

COORDINATES AND BEARINGS ON THIS PLAT ARE ORIENTED TO THE WISCONSIN COORDINATE SYSTEM CENTRAL ZONE (NAD 83). ALL PLAT DISTANCES ARE GROUND LENGTHS AND ARE PROVIDED IN METRIC (METERS) AND ENGLISH (FEET). TO CONVERT GROUND LENGTHS TO GRID LENGTHS MULTIPLY THE DISTANCES BY THE GRID FACTOR PROVIDED ON THE DETAIL SHEETS. TO CONVERT METRIC COORDINATES TO STATE PLANE (ENGLISH) COORDINATES MULTIPLY METRIC COORDINATES BY 3.2808334.

RIGHT OF WAY MONUMENTS ARE TYPE 2 AND ARE PLACED PRIOR TO OR AT THE TIME OF LAND TITLE TRANSFER.

RIGHT OF WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY OR OTHER SURVEYS OF PUBLIC RECORD.



TOTAL NET LENGTH OF CENTERLINE • 1.382 km

END RELOCATION ORDER

PROJECT 6517-06-21
STATION 12+375.316
1.368 METERS SOUTH OF AND 1.053 METERS
WEST OF THE NORTHEAST CORNER OF SECTION 17
TOWNSHIP 22 NORTH, RANGE 16 EAST.
Y • 62694.429
X • 713394.178

EQUATION
11+118.005 CTH S AH+
1+526.085 STH 76 BK

BEGIN RELOCATION ORDER

PROJECT 6517-06-21
STATION 1+400.000
295.348 METERS SOUTH OF AND 317.732 METERS
EAST OF THE CENTER OF SECTION 17
TOWNSHIP 22 NORTH, RANGE 16 EAST.
Y • 61592.015
X • 712916.852

R/W PROJECT NUMBER	6517-06-21	SHEET NUMBER	TOTAL SHEETS
FEDERAL PROJECT NUMBER		4.0	7
PLAT OF RIGHT OF WAY REQUIRED FOR CTH 0 - CTH A			
STH 76		OUTAGAMIE COUNTY	

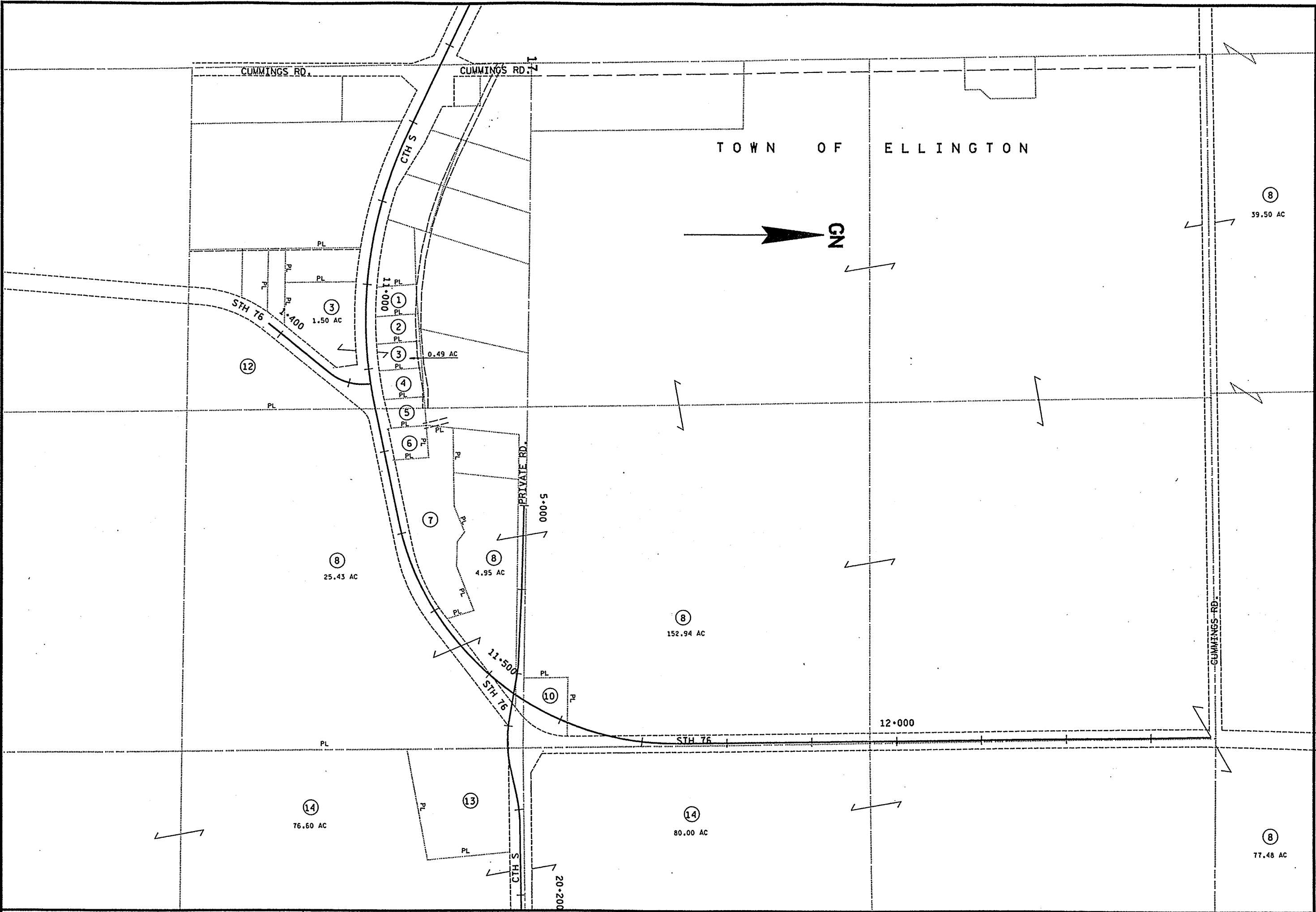
REVISION DATE 8-16-96	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVED FOR DISTRICT OFFICE: DATE: 5/13/96 <i>James L. Lamer</i>	

INDEX OF PARCELS

AREAS SHOWN IN THE TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA TO BE ACQUIRED.

PARCEL NUMBER	SHEET NUMBER	OWNER
1	4.3	SAMUEL T. & JUDY L. ELLIOTT
2	4.3	SCOT J. & CHARLENE A. VAN HANDEL
3	4.3	ROBERT H. & EVELYN R. KETTNER
4	4.3	MARY E. LIESCH
5	4.3	DENNIS L. & SHARON L. HOIER
6	4.3	RUTH E. MASON
7	4.3 & 4.4	PAUL A. GEHRING
8	4.3, 4.4 & 4.5	F. & K. PARTNERSHIP
9		
10	4.3 & 4.4	DAVID A. & PATRICIA A. YOUNG
11		
12	4.3	TOWN OF ELLINGTON
13	4.4	RUSSELL & IDELLA WINTERFELDT
14	4.4 & 4.5	ROBERT W. & LORRAINE SCHMIDT
15	4.3 - 4.5	WISCONSIN ELECTRIC POWER CO (DISTRIBUTION)
16	4.3	AMERITECH
17	4.5	WISCONSIN ELECTRIC POWER CO (TRANSMISSION)

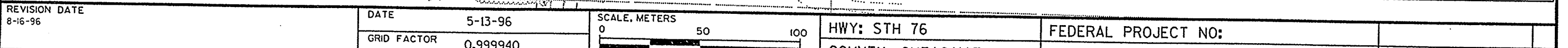
2-20-96
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REV. DATE: 8-9-96
PLOT NAME: D34T01
PLOT SCALE: 2000



REVISION DATE 8-16-96	DATE 5-13-96	NOT TO SCALE	HWY: STH 76 COUNTY: OUTAGAMIE	FEDERAL PROJECT NO:	STATE R/W PROJECT NO: 6517-06-21	SHEET NO: 4.2	M
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FILE NAME: D3 651706:4T01

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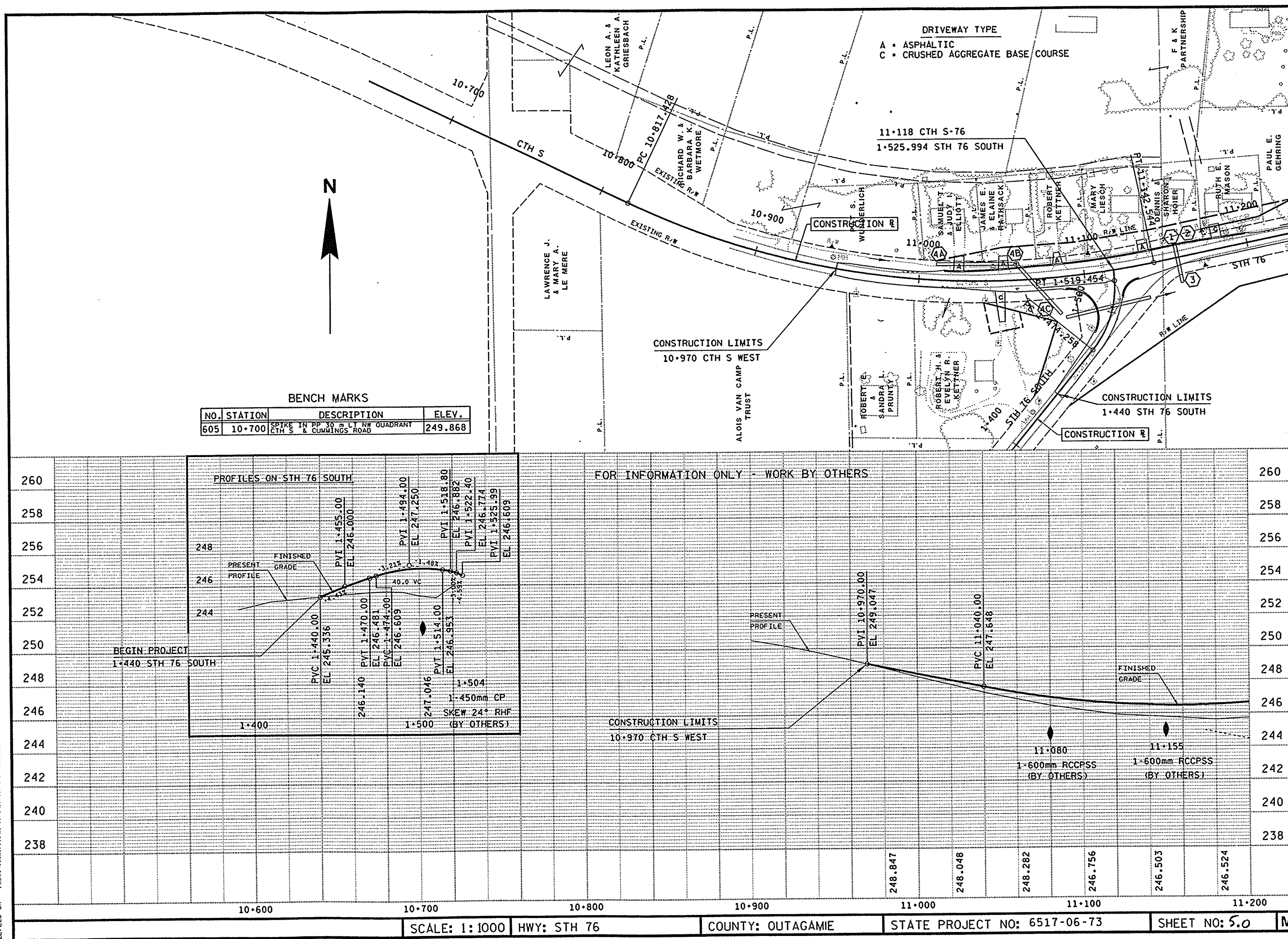


PARCEL NUMBER	SHEET NUMBER	OWNER	INTEREST REQUIRED	TOTAL AREA	R/R AREA REQUIRED			TOTAL AREA REMAINING	TLE AREA	PLE AREA
					NEW	EXISTING	TOTAL			
1	4.3	SAMUEL T. & JUDY L. ELLIOTT	TLE	0.206 ha (0.51 AC)					0.0085 ha (0.021 AC)	
2	4.3	SCOT J. & CHARLENE A. VAN HANDEL	TLE	0.202 ha (0.50 AC)					0.025 ha (0.063 AC)	
3	4.3	ROBERT H. & EVELYN R. KETNER	FEE & TLE	0.805 ha (1.99 AC)	0.094 ha (0.23 AC)		0.094 ha (0.23 AC)	0.711 ha (1.76 AC)	0.054 ha (0.13 AC)	
4	4.3	MARY E. LIESCH	TLE	0.202 ha (0.50 AC)					0.027 ha (0.067 AC)	
5	4.3	DENNIS L. & SHARON L. HOIER	TLE	0.202 ha (0.50 AC)					0.024 ha (0.06 AC)	
6	4.3	RUTH E. MASON	FEE & TLE	0.202 ha (0.50 AC)	0.014 ha (0.04 AC)		0.014 ha (0.04 AC)	0.188 ha (0.46 AC)	0.024 ha (0.06 AC)	
7	4.3&4.4	PAUL A. GEHRING	FEE & TLE	1.214 ha (3.00 AC)	0.550 ha (1.36 AC)		0.550 ha (1.36 AC)	0.664 ha (1.64 AC)	0.005 ha (0.01 AC)	
8	4.3, 4.4&4.5	F. & K. PARTNERSHIP	FEE, TLE & PLE	121.531 ha (300.30 AC)	1.384 ha (3.42 AC)	1.514 ha (3.74 AC)	2.898 ha (7.16 AC)	118.633 ha (293.14 AC)	0.360 ha (0.89 AC)	0.004 ha (0.01 AC)
10	4.3&4.4	DAVID A. & PATRICIA A. YOUNG			SEE SHEET NO. 4.4					
12	4.3	TOWN OF ELLINGTON	FEE	1.817 ha (4.49 AC)	0.087 ha (0.22 AC)	0.096 ha (0.24 AC)	0.183 ha (0.46 AC)	1.634 ha (4.03 AC)		
15	4.3-4.5	WISCONSIN ELECTRIC POWER CO (DISTRIBUTION) (41)	RELEASE OF RIGHTS							
16	4.3	AMERITECH (42)	RELEASE OF RIGHTS							

PARCEL NUMBER	SHEET NUMBER	OWNER	INTEREST REQUIRED	TOTAL AREA	R/W AREA REQUIRED			TOTAL AREA REMAINING	TLE AREA	PLE AREA
					NEW	EXISTING	TOTAL			
7	4.3&4.4	PAUL A. GEHRING			SEE SHEET NO. 4.3					
8	4.3. 4.4&4.5	F. & K. PARTNERSHIP			SEE SHEET NO. 4.3					
10	4.3&4.4	DAVID A. & PATRICIA A. YOUNG	FEE, PLE & TLE	0.429 ha (1.06 AC)	0.177 ha (0.44 AC)	0.106 ha (0.26 AC)	0.283 ha (0.70 AC)	0.186 ha (0.36 AC)	0.031 ha (0.08 AC)	0.024 ha (0.06 AC)
13	4.4	RUSSELL & IDELLA WINTERFELDT	FEE & TLE	1.376 ha (3.40 AC)	0.133 ha (0.33 AC)	0.155 ha (0.38 AC)	0.288 ha (0.71 AC)	1.088 ha (2.69 AC)	0.054 ha (0.13 AC)	
14	4.4&4.5	ROBERT W. & LORRAINE SCHWIDT	FEE & TLE	63.376 ha (156.60 AC)	0.248 ha (0.61 AC)	0.572 ha (1.41 AC)	0.820 ha (2.02 AC)	62.556 ha (154.58 AC)	0.036 ha (0.09 AC)	
15	4.3-4.5	WISCONSIN ELECTRIC POWER CO (41)	RELEASE OF RIGHTS							

3

ORIGINATOR: District 3	REV. DATE: 9-22-97	PLOT NAME: Q3501
22 21 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50		52 53 54 55 56 57 58 59 60 61 62 63

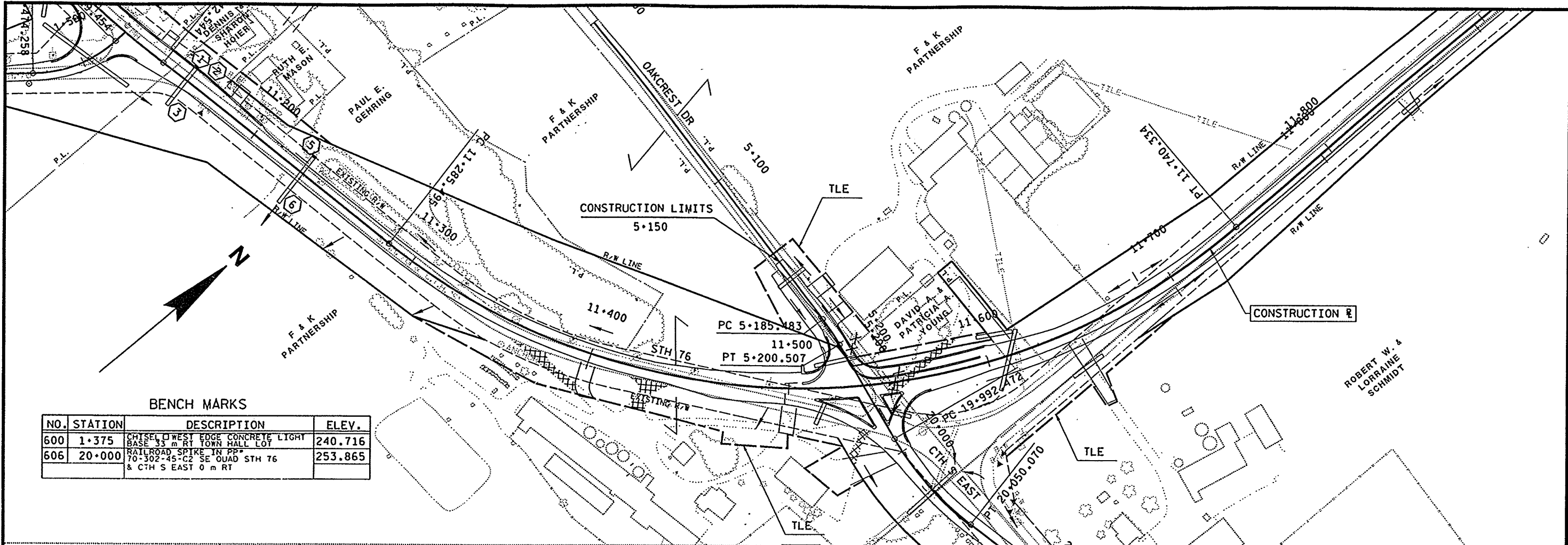


PLOT SCALE: 1.0000

REV. DATE: 9-16-97

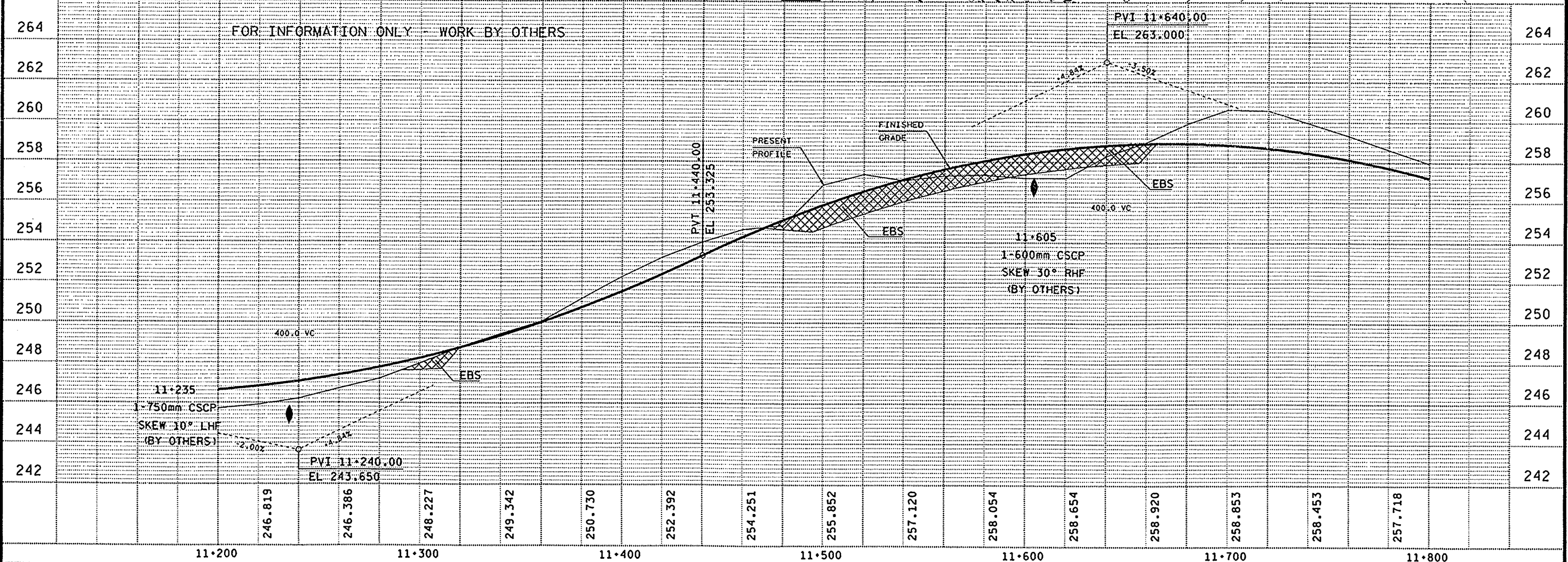
ORIGINATOR: DISTRICT 3

LEVELS ON - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63



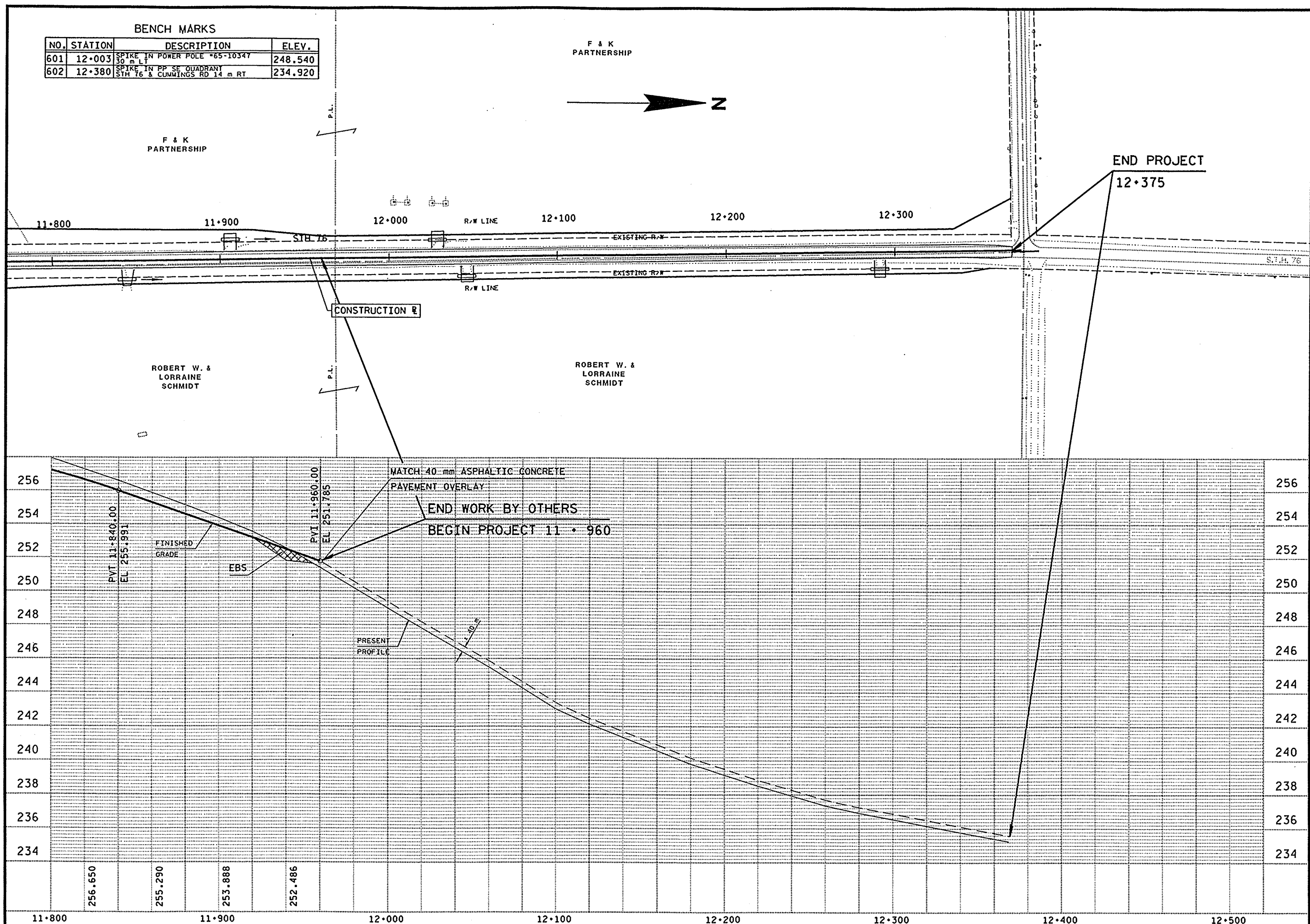
BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
600	1+375	CRUISED WEST EDGE CONCRETE LIGHT BASE 15 m RT TOWN HALL LOT	240.716
606	20+000	RAILROAD SPIKE IN PP 70+302.45-C2 SE QUAD STH 76 & CTH S EAST 0 m RT	253.865



REV. DATE: 9-15-97
PLOT NAME: d3503
ORIGINATOR: DISTRICT 3
LEVELS ON: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63
PLOT SCALE: 1:0000

BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
601	12+003	SPIKE IN POWER POLE *65-10347	248.540
602	12+380	SPIKE IN PP SE QUADRANT STH 76 & CUMMINGS RD 14 m RT	234.920



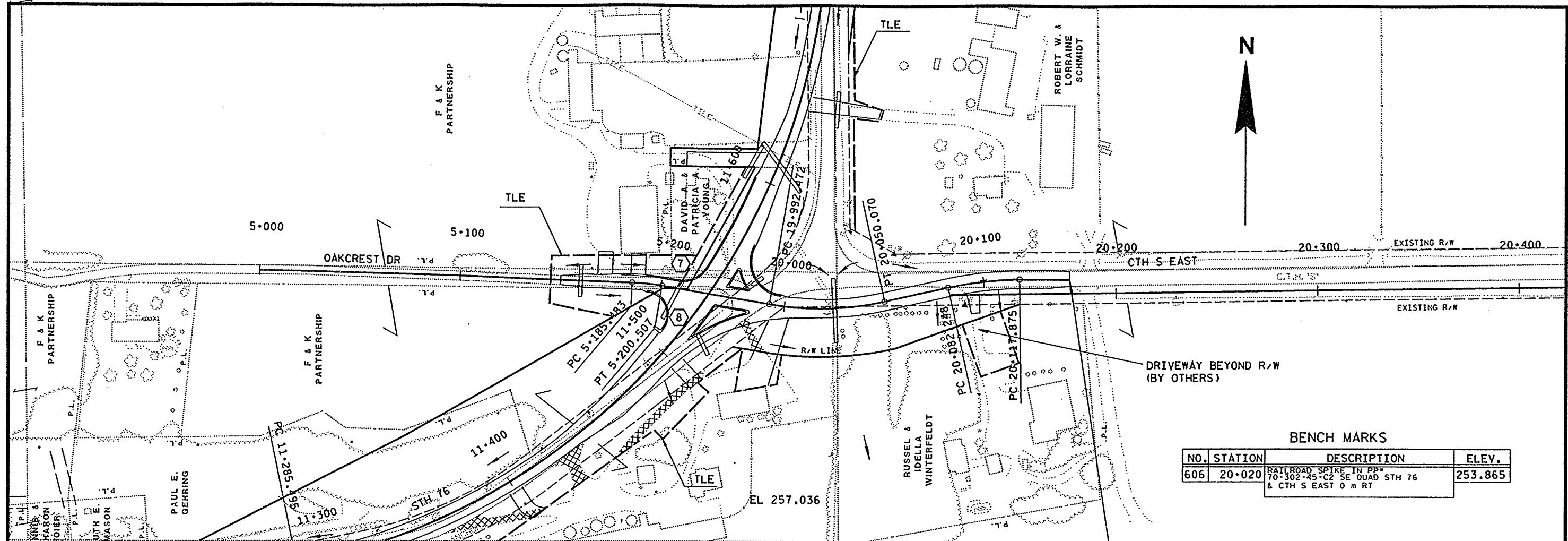
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PLOT NAME: 03504

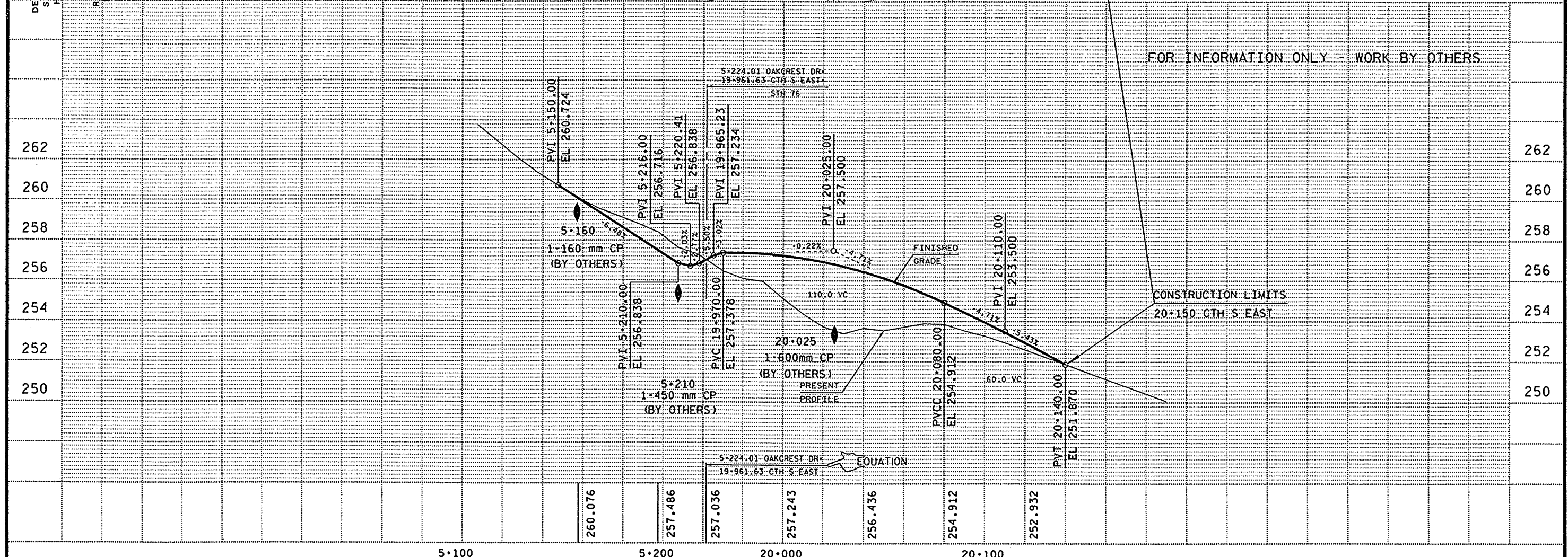
REV. DATE: 9-16-97

ORIGINATOR: District 3

LEVELS ON - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63



BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
606	20+020	RAILROAD SPIKE 10' PP 70+502+45-C2 SE QUAD STH 76 & CTH S EAST 0 m RT	253.865



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.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

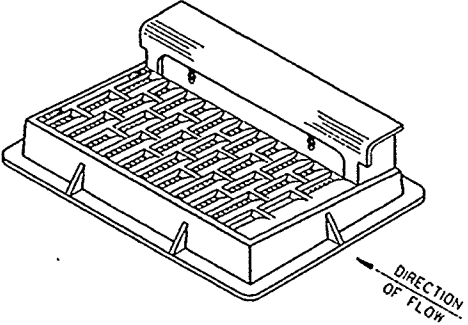
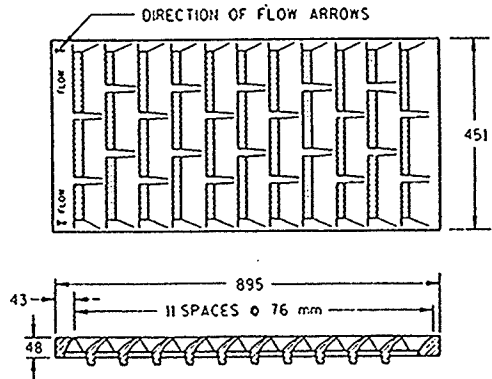
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

THE ACTUAL WEIGHT OF COVERS MAY VARY WITHIN 5 PERCENT, PLUS OR MINUS, OF THE APPROXIMATE WEIGHT.

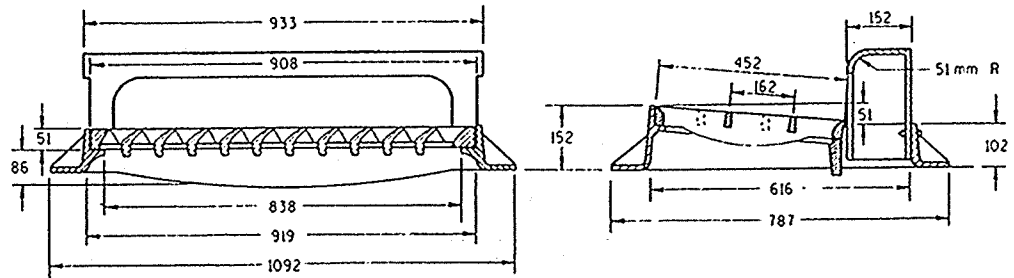
NOTE

ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE SHOWN.

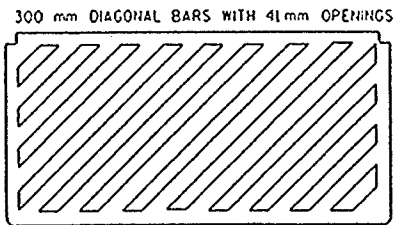
NOTE:
GRATE IS REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 150 to 230 mm

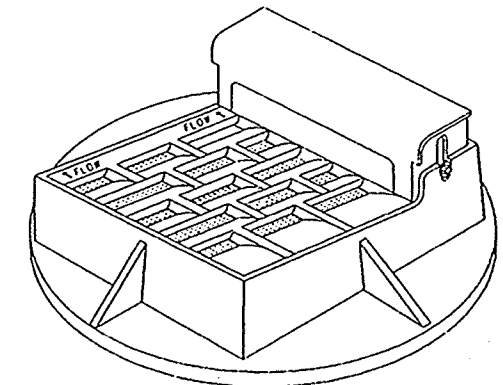
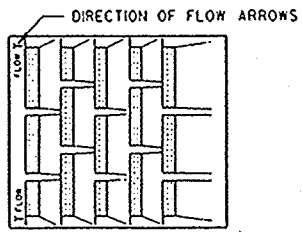


TYPE "H"
(APPROXIMATE WEIGHT 191 kg)
FRAME..... 79 kg
GRATE..... 63 kg
CURB BOX..... 49 kg

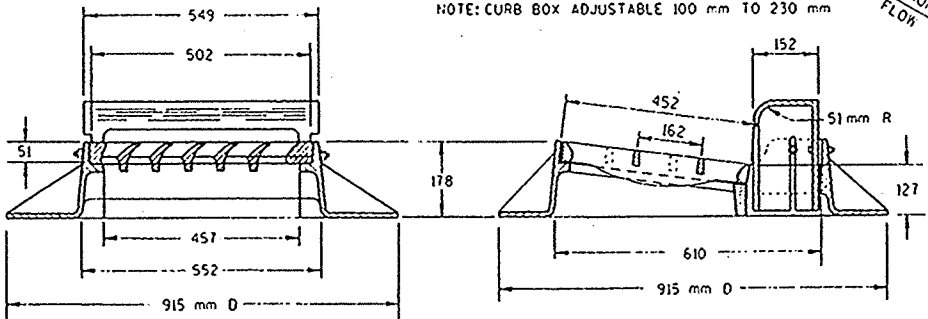


**SPECIAL GRATE FOR
TYPE "H" COVER**
(MEASURES 895 mm X 451 mm X 51 mm)
(APPROXIMATE WEIGHT 78 kg)
(NOTED AS TYPE H-S ON DRAINAGE TABLE)

NOTE:
GRATE IS REVERSIBLE.



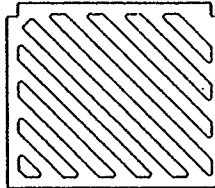
NOTE: CURB BOX ADJUSTABLE 100 mm TO 230 mm



TYPE "A"
(APPROXIMATE WEIGHT 147 kg)
FRAME..... 71 kg
GRATE..... 38 kg
CURB BOX..... 38 kg

NOTE:
GRATE IS REVERSIBLE.

30 mm DIAGONAL BARS
WITH 30 mm OPENINGS



**SPECIAL GRATE FOR
TYPE "A" COVER**

(MEASURES 502 mm X 432 mm X 51 mm)
GRATE..... 38 kg
(NOTED AS TYPE A-S ON DRAINAGE TABLE)

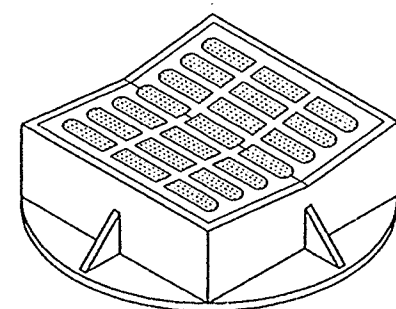
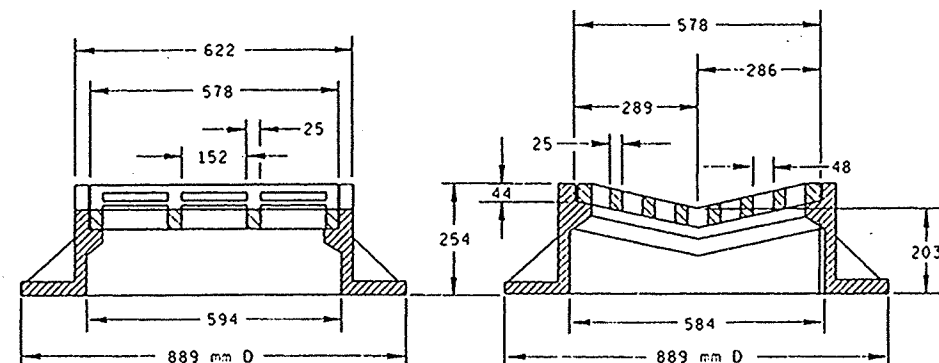
NOTE:
GRATE IS REVERSIBLE.

INLET COVERS

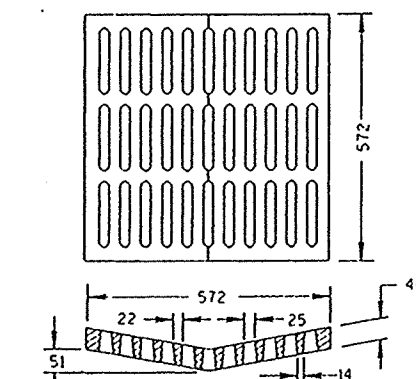
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
DATE 2/19/97
CHIEF ROADWAY DEVELOPMENT ENGINEER

M 60

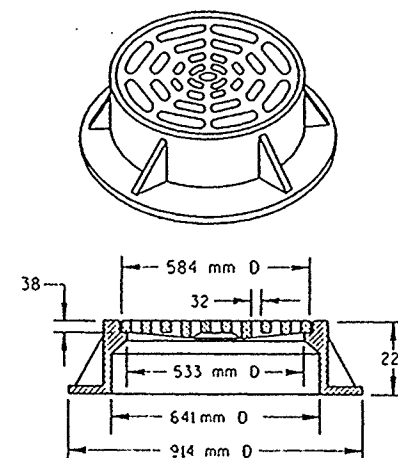


TYPE "B"
(APPROXIMATE WEIGHT 179 kg)
FRAME..... 129 kg
GRATE..... 50 kg

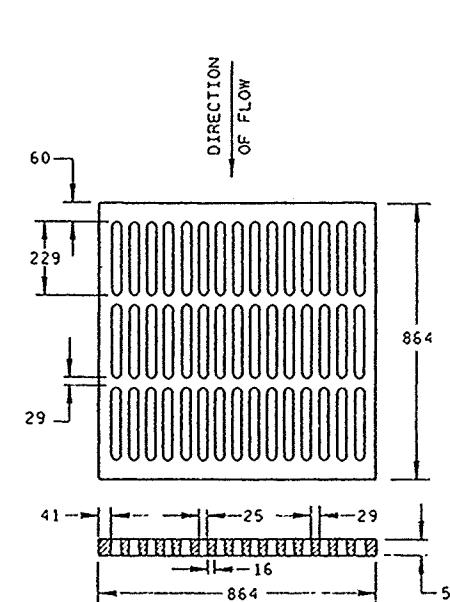


**ALTERNATIVE GRATE FOR
FOR TYPE "B" COVER**

(APPROXIMATE GRATE WEIGHT 57 kg)
GRATE..... 57 kg
USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.
NOTED AS TYPE B-A ON THE DRAINAGE TABLE

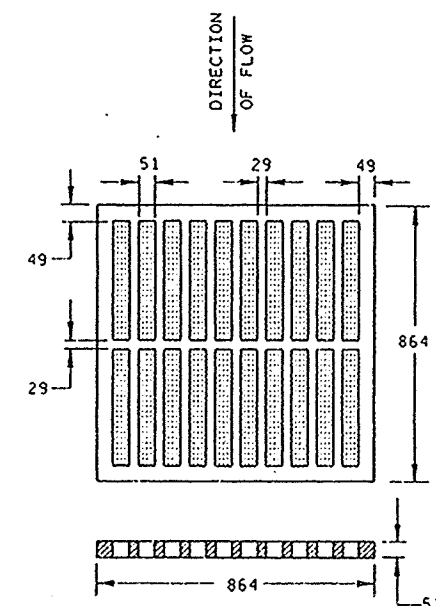


TYPE "C"
(APPROXIMATE WEIGHT 154 kg)
FRAME..... 107 kg
GRATE..... 48 kg



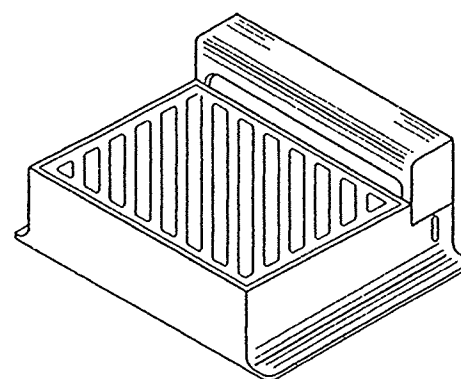
ALTERNATIVE TYPE "MS"
(APPROXIMATE GRATE WEIGHT 166 kg)
GRATE..... 166 kg

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE

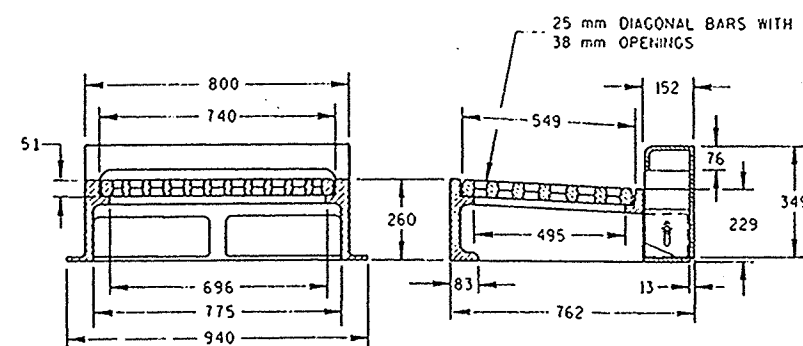


TYPE "MS"
(APPROXIMATE GRATE WEIGHT 122 kg)
GRATE..... 122 kg

USE ON FREEWAYS AND EXPRESSWAYS
NOTED AS TYPE MS ON DRAINAGE TABLE



DIAGONAL SLOTS. SHALL BE ORIENTED
TO THE DIRECTION OF FLOW AS ILLUSTRATED.
GRATES ARE MANUFACTURED TO BE REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 152 mm TO 229 mm

TYPE "WM"
(APPROXIMATE WEIGHT 304 kg)
FRAME..... 163 kg
GRATE..... 73 kg
CURB BOX..... 68 kg

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.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

THE ACTUAL WEIGHT OF COVERS MAY VARY WITHIN 5 PERCENT, PLUS OR MINUS, OF THE APPROXIMATE WEIGHT.

NOTES

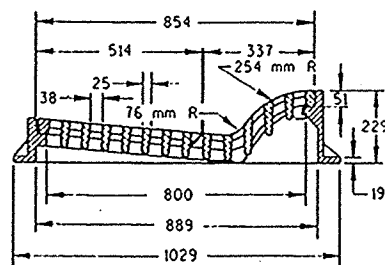
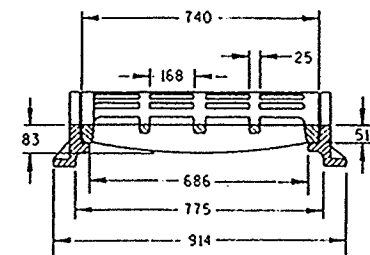
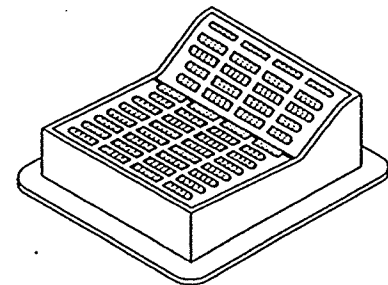
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

INLET COVERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/19/97
DATE
CHIEF ROADWAY DEVELOPMENT ENGINEER

16.1

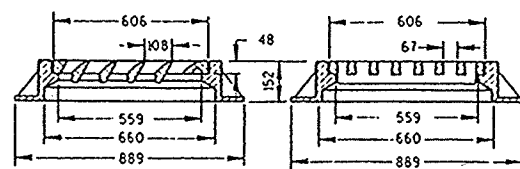
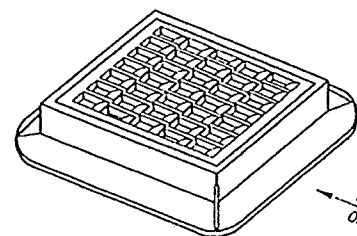


TYPE "F"

(APPROXIMATE WEIGHT 292 kg)

FRAME..... 136 kg
GRATE..... 74 kg
GRATE..... 82 kg

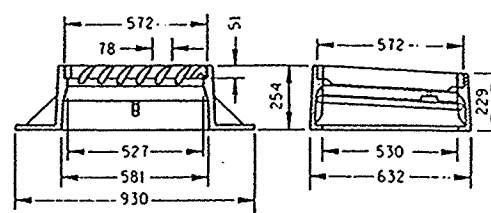
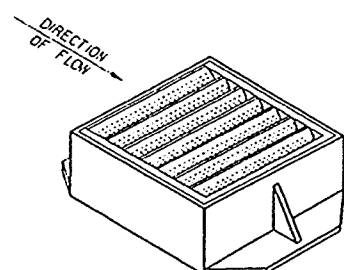
USE WITH CONCRETE CURB & GUTTER, 900 mm



TYPE "S"

(APPROXIMATE WEIGHT 181 kg)

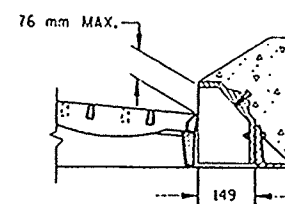
FRAME..... 111 kg
GRATE..... 70 kg



TYPE "V"

(APPROXIMATE WEIGHT 180 kg)

FRAME..... 110 kg
GRATE..... 70 kg

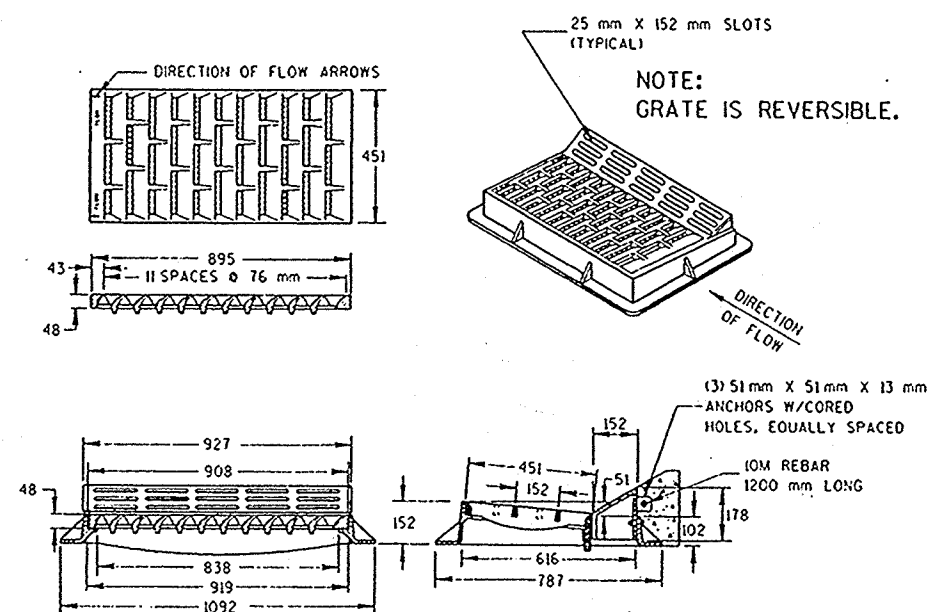


ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

(APPROXIMATE WEIGHT 36 kg)

CURB BOX..... 36 kg

USE WITH TYPES G & J CONCRETE CURB & GUTTER, 762 mm
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE



TYPE "HM"

(APPROXIMATE WEIGHT 183 kg)

FRAME..... 79 kg
GRATE..... 63 kg
CURB BOX..... 41 kg

USE WITH CONCRETE CURB & GUTTER, 900 mm

NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE

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.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

THE ACTUAL WEIGHT OF COVERS MAY VARY WITHIN 5 PERCENT, PLUS OR MINUS, OF THE APPROXIMATE WEIGHT.

NOTE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

INLET COVERS

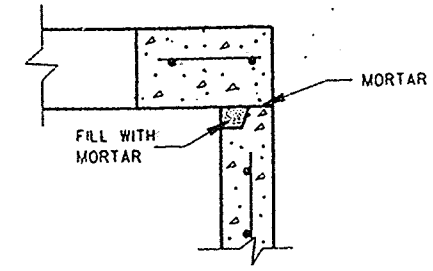
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
2/19/97
DATE
Roy L. Hines
CHIEF ROADWAY DEVELOPMENT ENGINEER

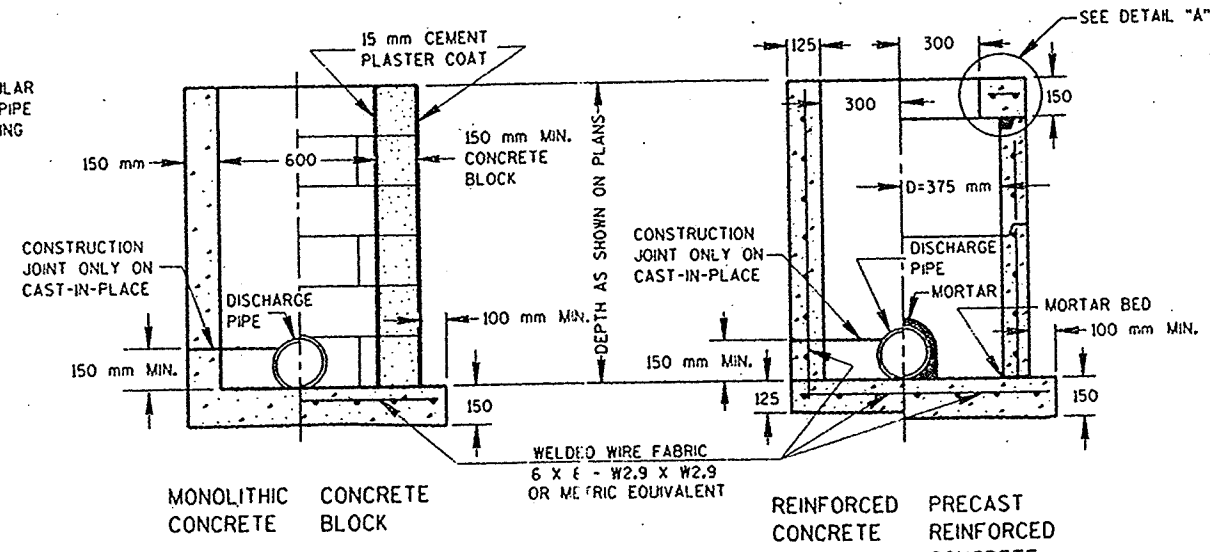
S.D.D. 8 A 5-13c

S.D.D. 8 C 1-5
LEVELS ON - 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

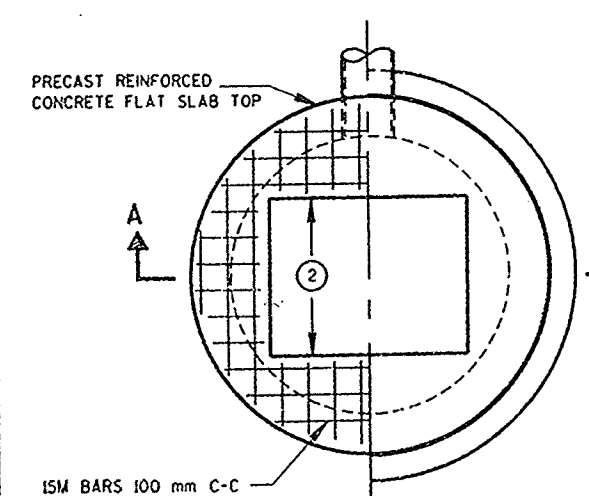
*SELECTION OF SQUARE OR CIRCULAR DESIGN WILL BE BASED ON THE PIPE SIZES AND THE INLET COVER BEING UTILIZED



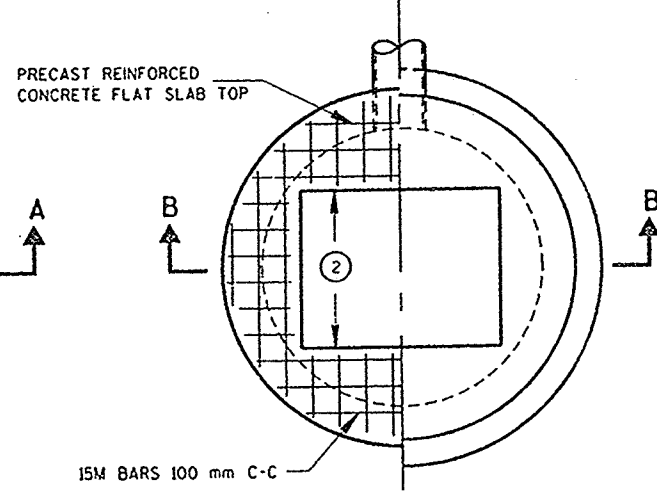
DETAIL "A"



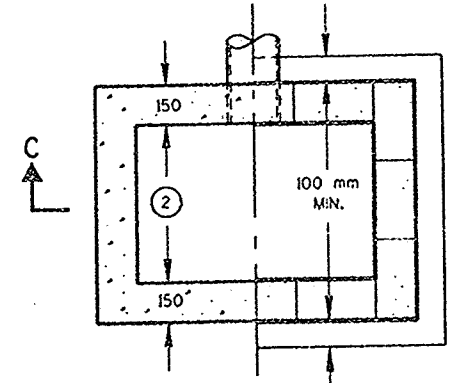
INLETS TYPE 1



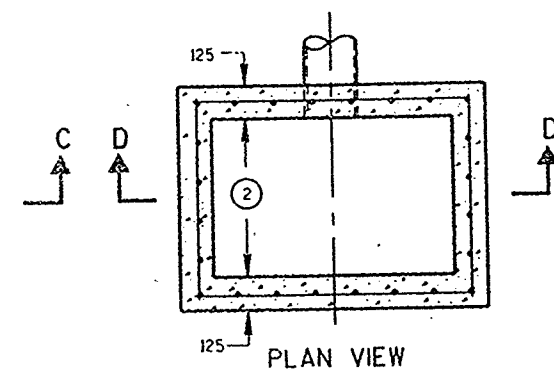
PLAN VIEW



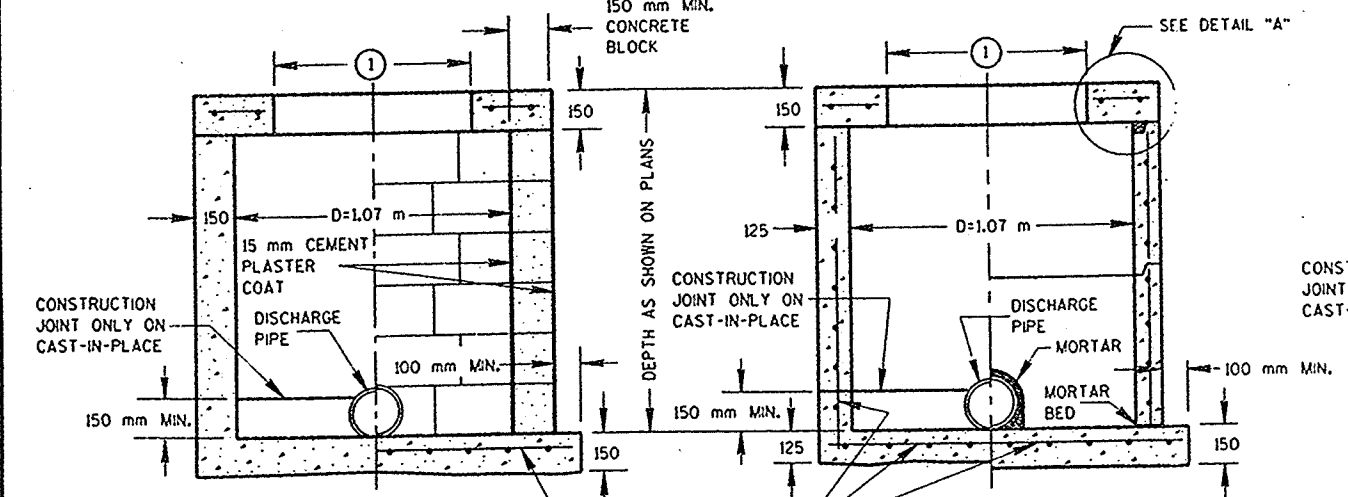
PLAN VIEW



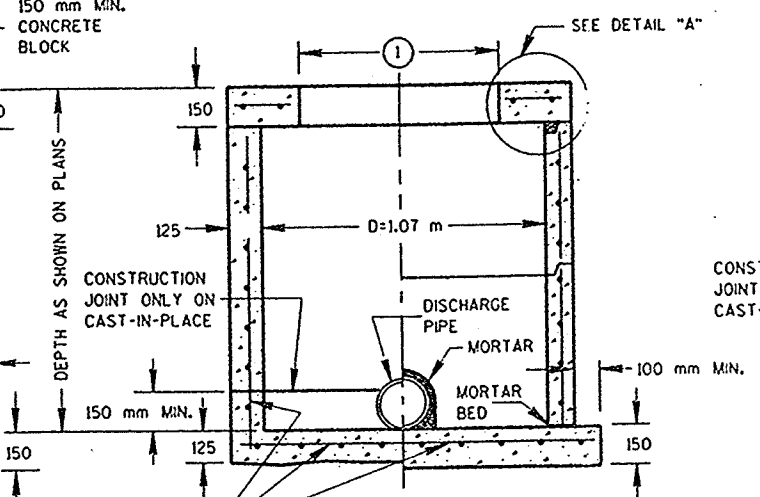
PLAN VIEW



PLAN VIEW

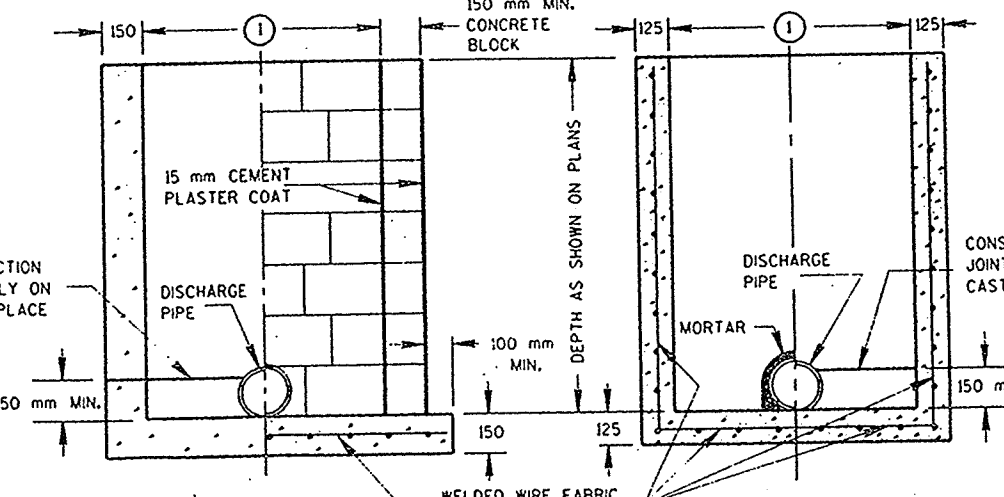


SECTION A-A

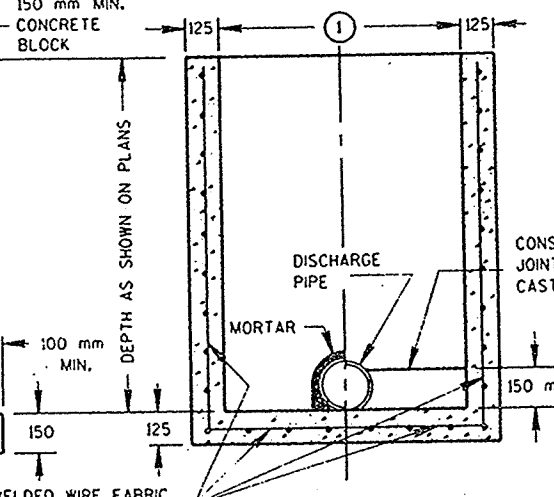


SECTION B-B

INLETS TYPE 2, 3 & 4



SECTION C-C



SECTION D-D

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.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION 199 M.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 1-C", "CATCH BASINS 1-B", "INLETS 3-H", ETC. THE FIRST DIGIT DESIGNATES THE MASONRY PORTION OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

PRECAST REINFORCED BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 150 mm IN DEPTH, WHICH MEETS THE REQUIREMENTS OF GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONCRETE FLAT SLAB TOPS MAY BE USED ON THE STRUCTURES. THE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 50 mm CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED CONCRETE RISERS SHALL BE PLACED WITH TONGUE DOWN.

- USE 760 mm OPENING FOR TYPE 2 INLETS, 915 mm OPENING FOR TYPE 3 INLETS, AND 890 mm TYPE 4 INLETS.
- USE 610 mm OPENING FOR TYPE 1, 2 & 3 INLETS, 775 mm OPENING FOR TYPE 4 INLETS.

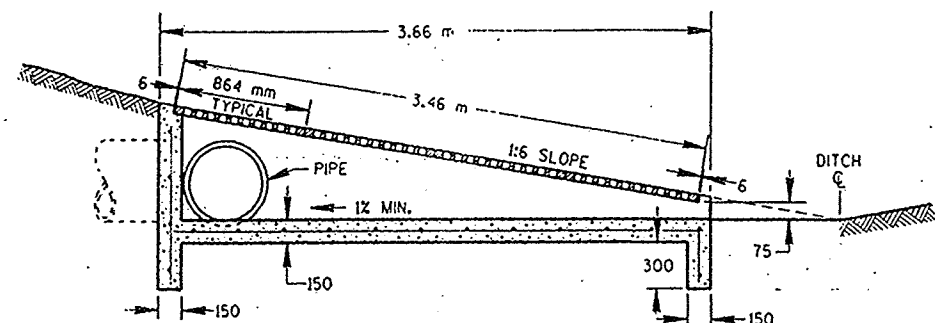
NOTE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

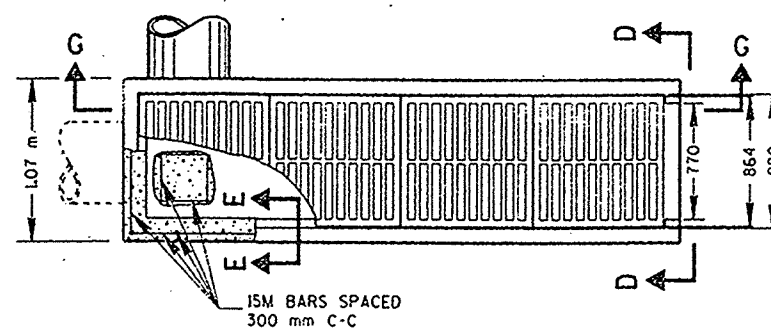
INLETS TYPE 1, 2, 3 & 4

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
01/31/95
DATE
Roy L. Thompson
CHIEF ROADWAY DEVELOPMENT ENGINEER

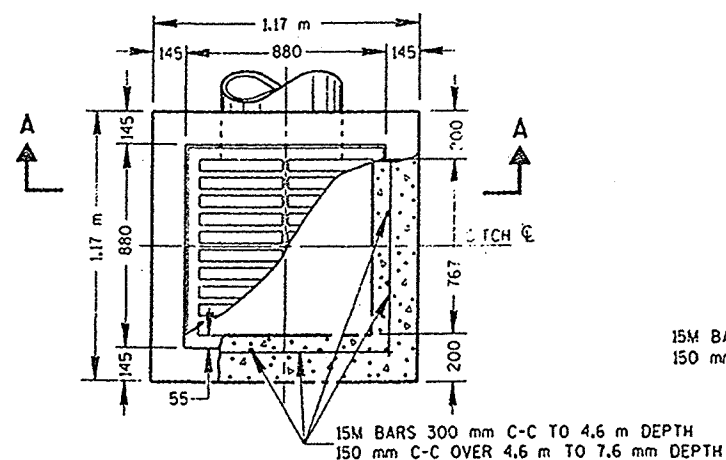


SECTION G-G

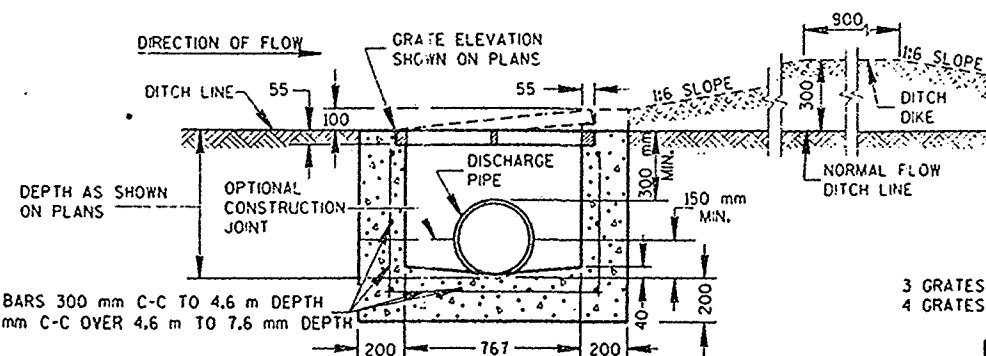


PLAN VIEW

REINFORCED CONCRETE INLET TYPE 11

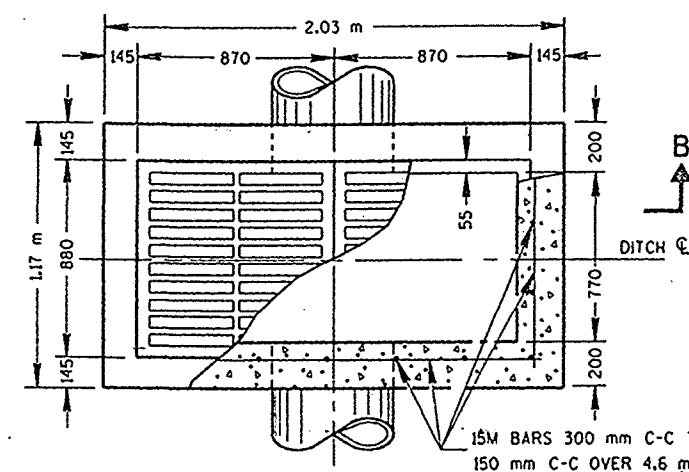


PLAN VIEW

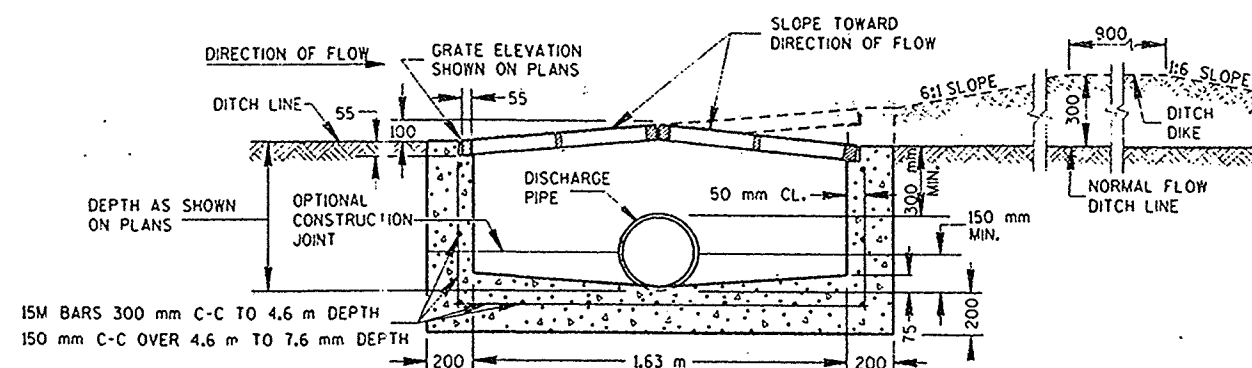


SECTION A-A

REINFORCED CONCRETE INLET TYPE 8



PLAN VIEW



SECTION B-B

REINFORCED CONCRETE INLET TYPE 9

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.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLETS WHICH MAY INCLUDE PRECAST REINFORCED CONCRETE INLETS, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

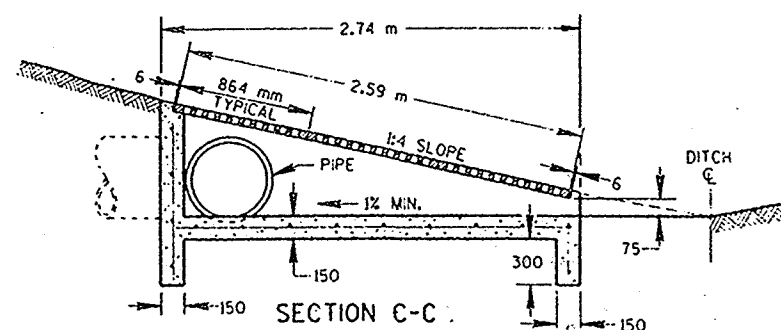
PRECAST REINFORCED CONCRETE INLET UNITS, IF USED, SHALL CONFORM TO THE REQUIREMENTS OF THE CATCH BASINS, MANHOLES AND INLETS SECTION OF THE STANDARD SPECIFICATIONS, UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER. THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A CORRECTED LIST OF SIZES IS FURNISHED BY THE ENGINEER.

ALL INLETS ARE DESIGNATED ON THE PLANS AS "INLETS, 8-MS", ETC. THIS DESIGNATION IS INTERPRETED TO MEAN THAT THE NUMBER, OR FIRST DIGIT DESIGNATES THE MASONRY PORTION OF THE STRUCTURE AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER OR IRON CASTING TO BE USED THEREWITH TO COMPRISE THE COMPLETE UNIT.

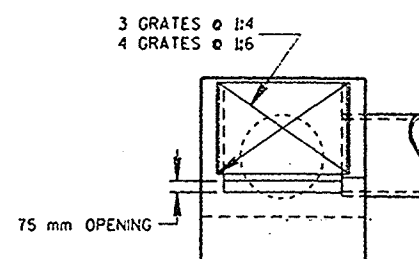
ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 50 mm CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

NOTE

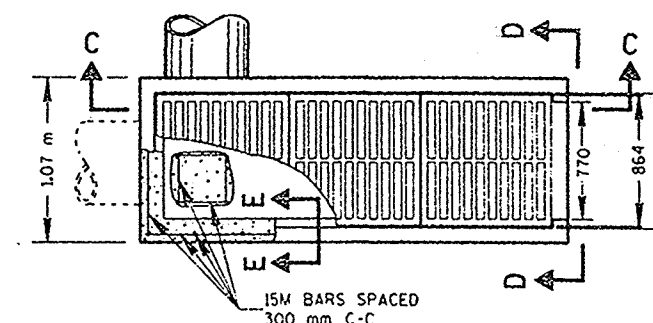
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.



SECTION C-C

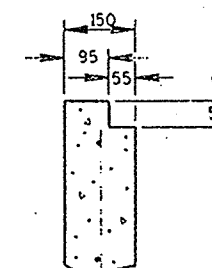


SECTION D-D



PLAN VIEW

REINFORCED CONCRETE INLET TYPE 10



SECTION E-E

INLETS TYPE 8, 9, 10 & 11

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

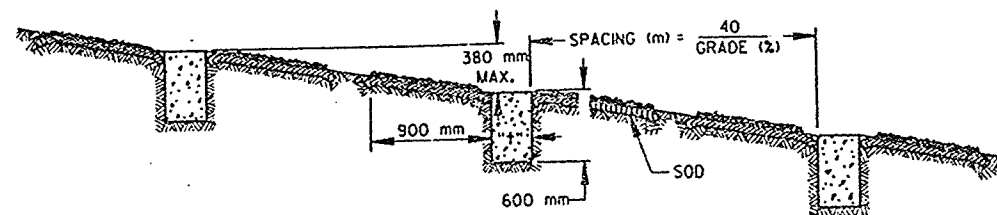
01/30/95

DATE

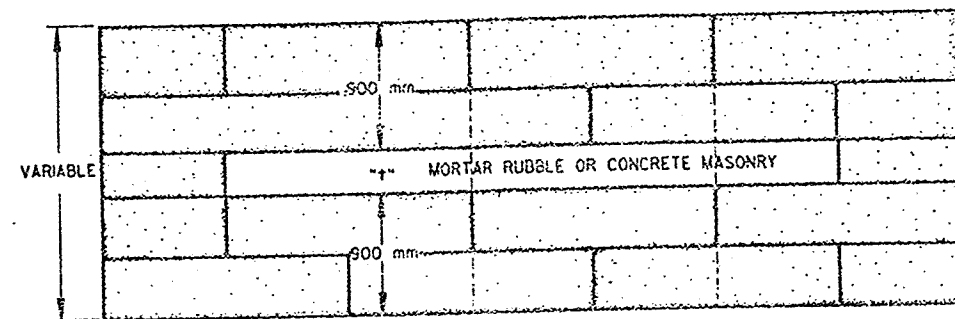
Ray A. Thomsen
CHIEF ROADWAY DEVELOPMENT ENGINEER

FWA

M

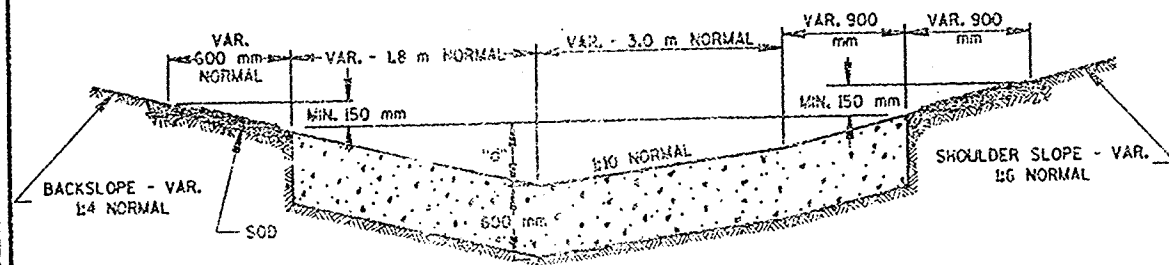


PROFILE OF DITCH GRADE

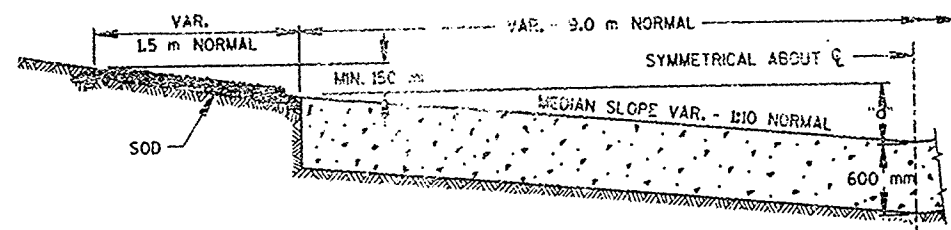


PLAN VIEW SHOWING MASONRY AND SOD

"t" - MASONRY THICKNESS SHALL BE 225 mm FOR CONCRETE AND 300 mm FOR MORTAR RUBBLE.

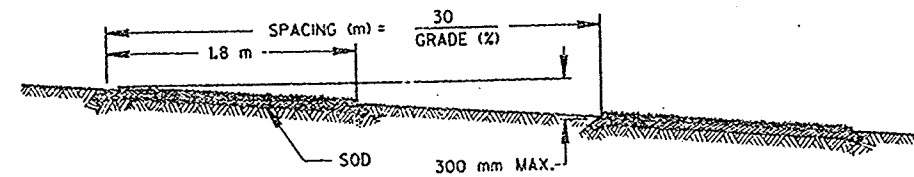


SIDE DITCH CROSS SECTION

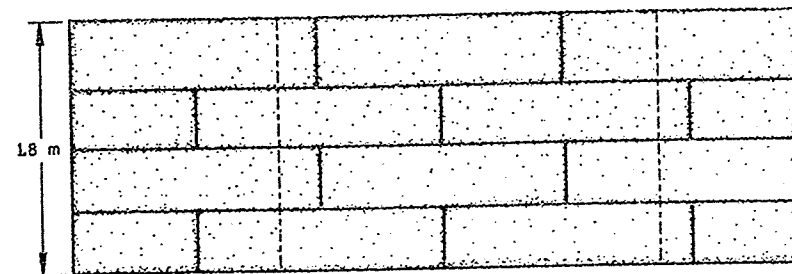


MEDIAN DITCH CROSS SECTION

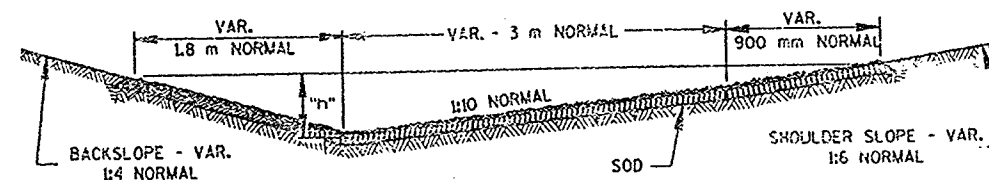
"d" - THE MINIMUM DEPTH OF THE MASONRY PORTION OF THE DITCH CHECKS SHALL BE EQUAL TO THE MAXIMUM DEPTH OF FLOW. THE NORMAL "d" WILL BE 600 mm.



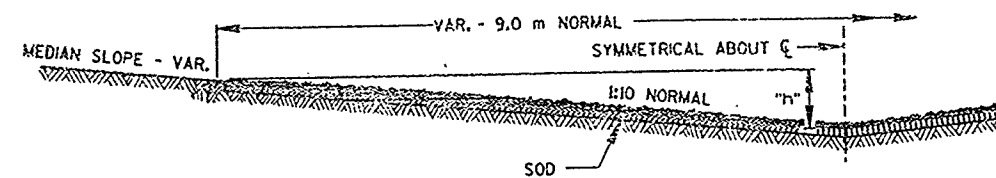
PROFILE OF DITCH GRADE



PLAN VIEW SHOWING SOD



SIDE DITCH CROSS SECTION



MEDIAN DITCH CROSS SECTION

"h" - THE MINIMUM HEIGHT OF DITCH TO BE SODDED SHALL BE EQUAL TO THE MAXIMUM DEPTH OF FLOW PLUS 150 mm. THE NORMAL "h" WILL BE 460 mm

SOD DITCH CHECKS

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.

ALTERNATE DESIGNS FOR DITCH CHECKS, OF THE MATERIAL OR COMBINATION OF MATERIALS SHOWN HEREON, MAY BE USED UPON WRITTEN PERMISSION OF THE ENGINEER.

SOD STRIPS FOR DITCH CHECKS MAY BE PLACED EITHER TRANSVERSELY OR LONGITUDINALLY TO THE DIRECTION OF WATER FLOW.

NOTE:

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

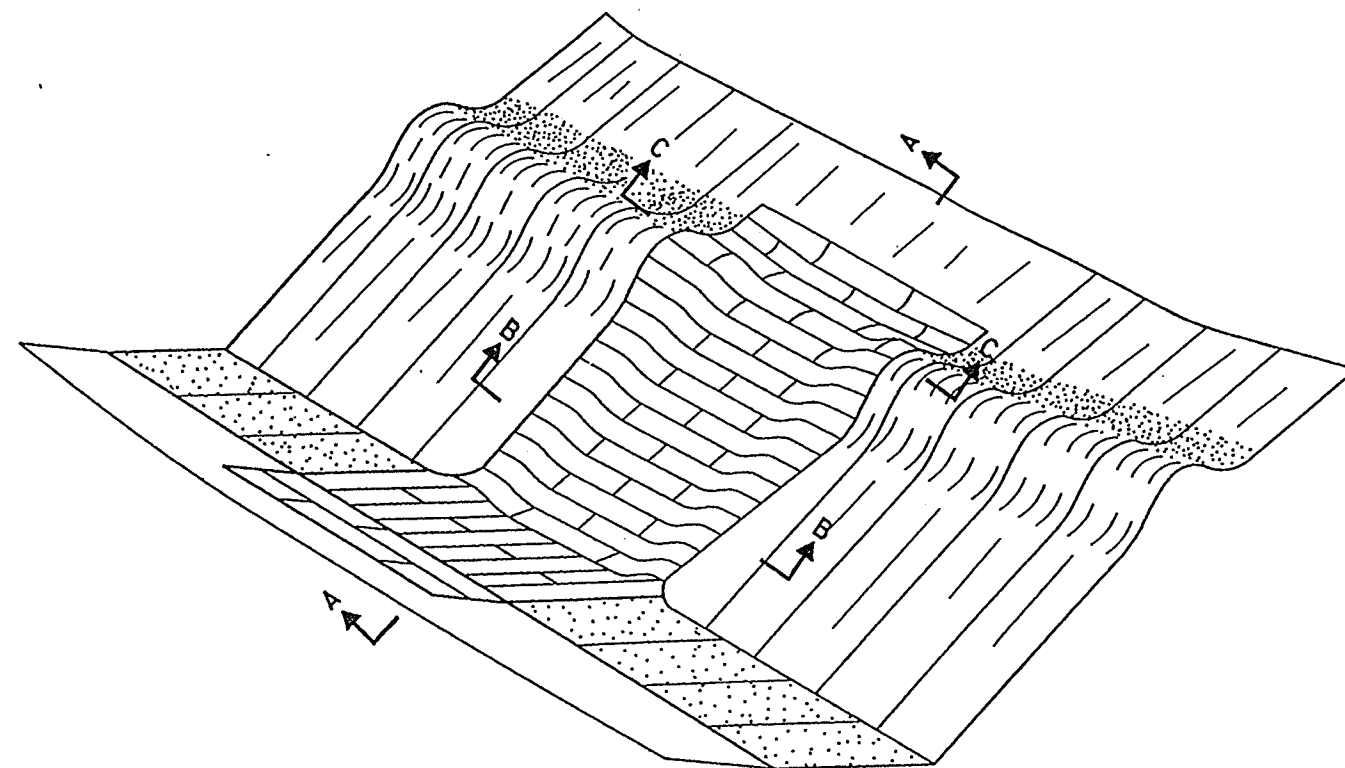
SLOPE RATIOS ARE SHOWN VERTICAL COMPONENT FIRST AND THEN THE HORIZONTAL (RISE:RUN).

SOD OR MASONRY AND SOD
DITCH CHECKS

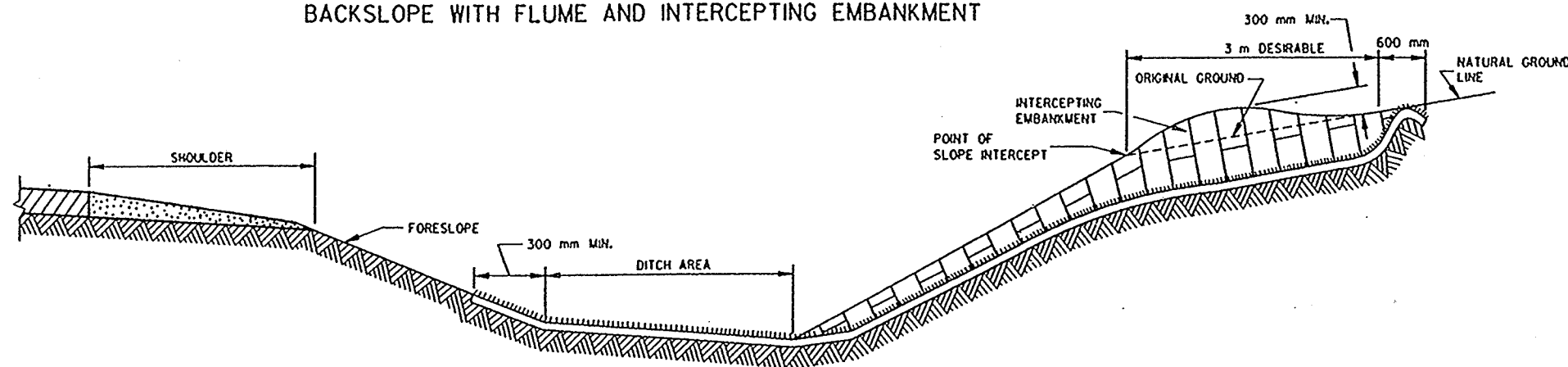
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
02/07/95
DATE
Rory L. Thompson
CHIEF ROADWAY DEVELOPMENT ENGINEER
6.5

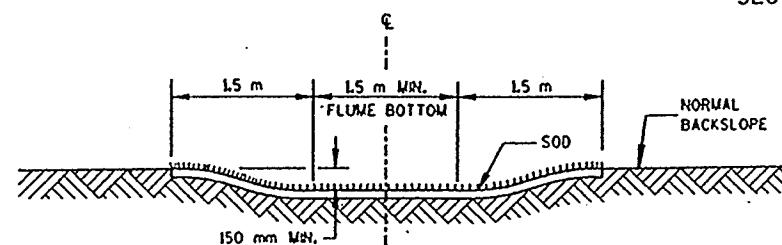
MASONRY AND SOD DITCH CHECKS



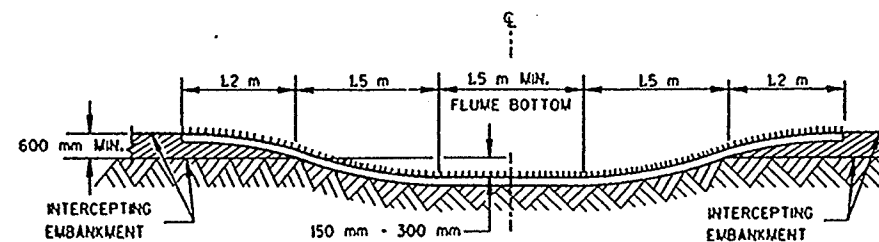
PERSPECTIVE
BACKSLOPE WITH FLUME AND INTERCEPTING EMBANKMENT



SECTION A-A



SECTION B-B



SECTION C-C

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS.

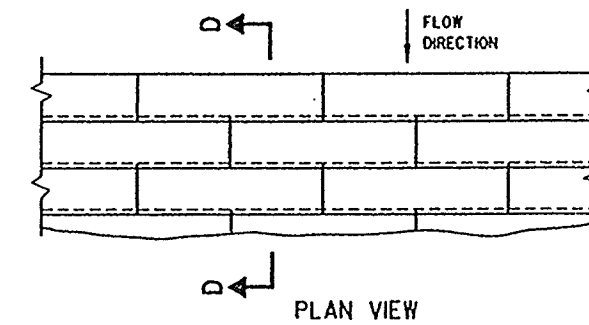
GRADING AND SHAPING INTERCEPTING EMBANKMENT WILL BE MEASURED AND PAID FOR IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, SECTION 205, "ROADWAY AND DRAINAGE EXCAVATION".

SOD STRIPS SHALL BE LAID TRANSVERSELY TO THE DIRECTION OF THE WATER FLOW.

DIMENSIONS SHALL BE ADJUSTED TO FIT SITE CONDITIONS AS DIRECTED BY THE ENGINEER.

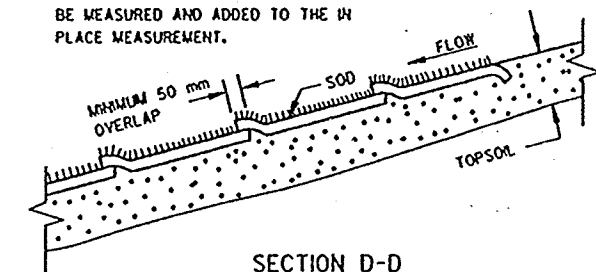
REINFORCED SODDING

WHEN SPECIFIED, THE BACKSLOPE FLUME SHALL BE REINFORCED BY THE APPLICATION OF APPROVED NETTING OR FABRIC TO THE SURFACE OF THE SOD.



NOTE:

SOD SHALL BE LAID AS SHOWN ON THE PLAN VIEW, AND AS DIRECTED BY THE ENGINEER. THE SOD OVERLAP WILL BE MEASURED AND ADDED TO THE IN PLACE MEASUREMENT.



SECTION D-D
DETAIL FOR OVERLAP OF SOD STRIPS

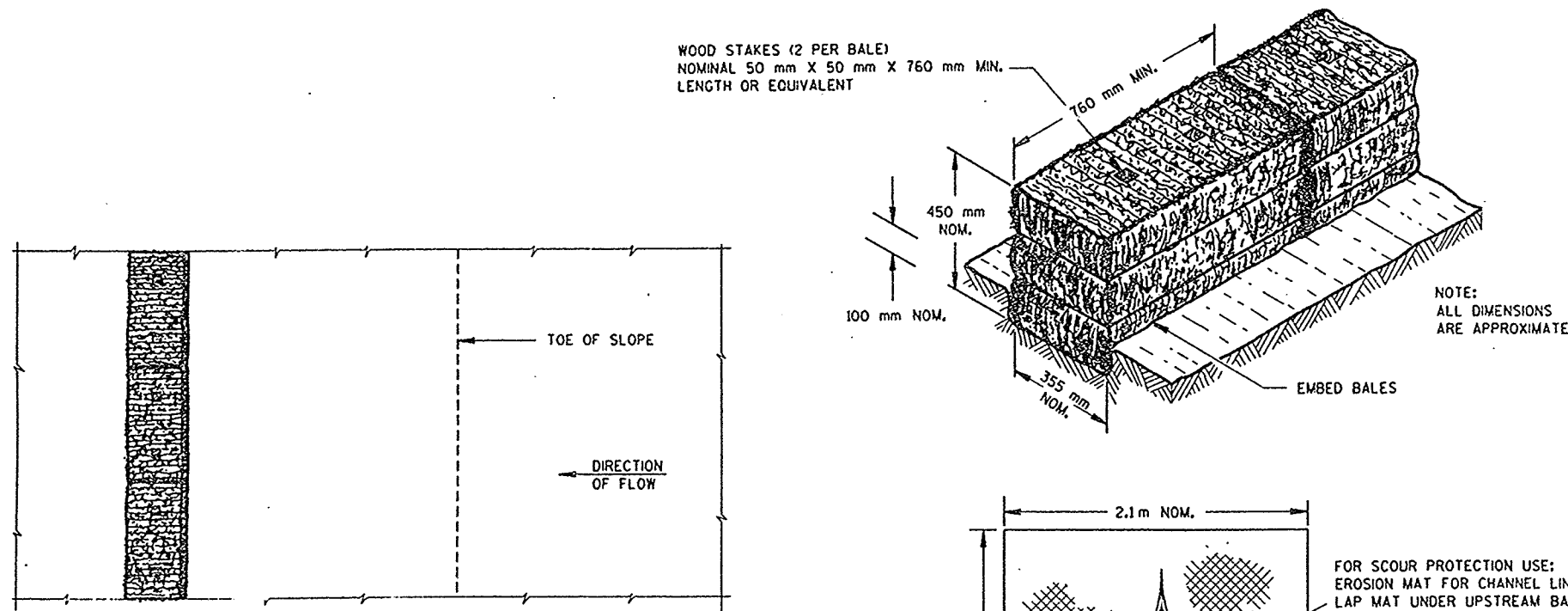
SODDED BACKSLOPE FLUME &
INTERCEPTING EMBANKMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/26/95
DATE
Ray J. Thompson
CHIEF ROADWAY DEVELOPMENT ENGINEER

M 66

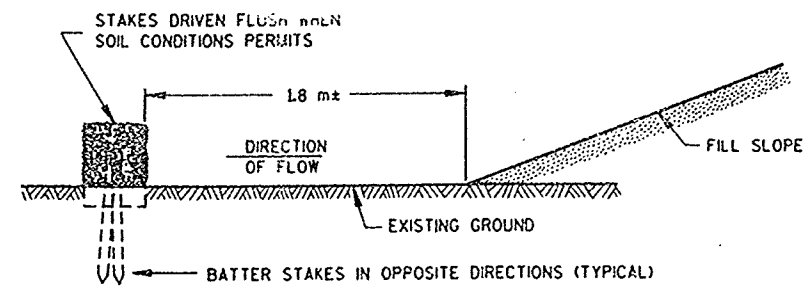
S.D.D. 8 E 8-2
LEVELS ON - 2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63



GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS, & WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

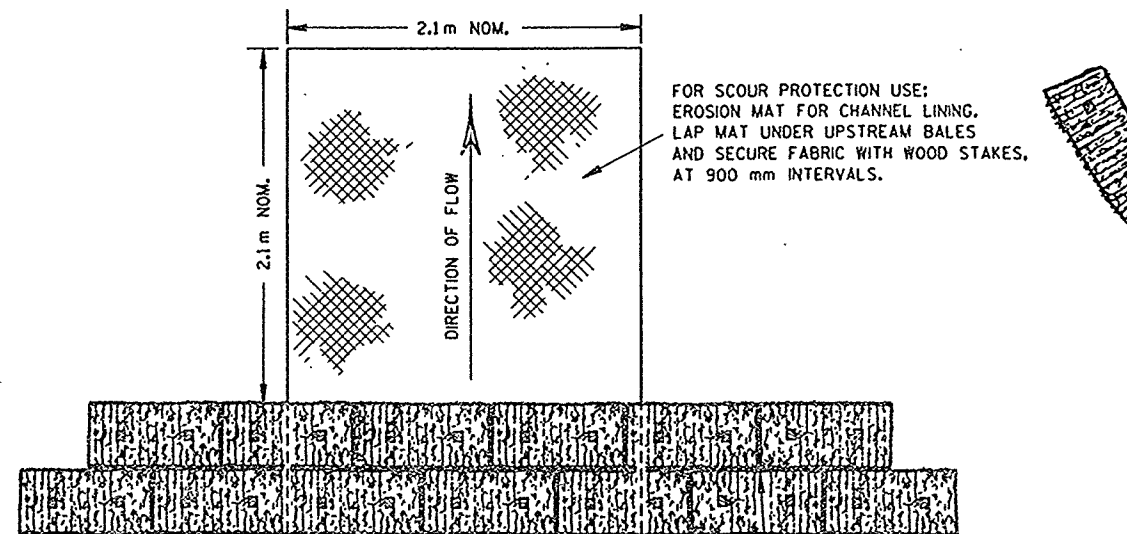
PLAN VIEW



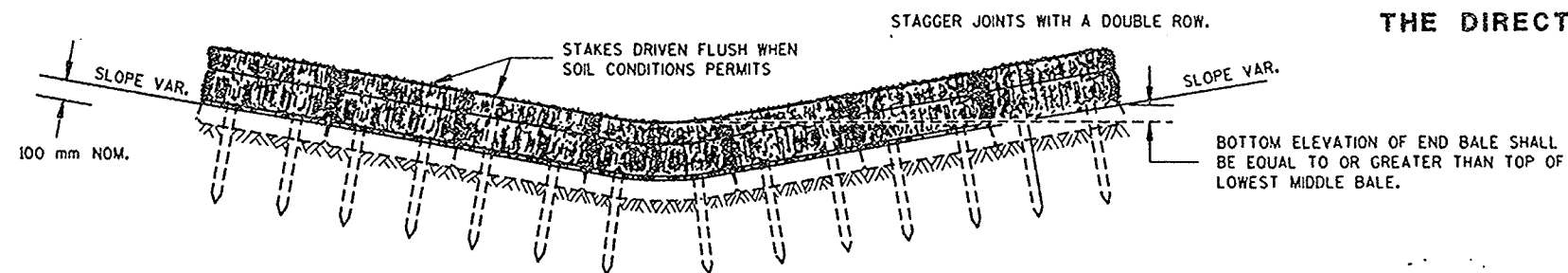
FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

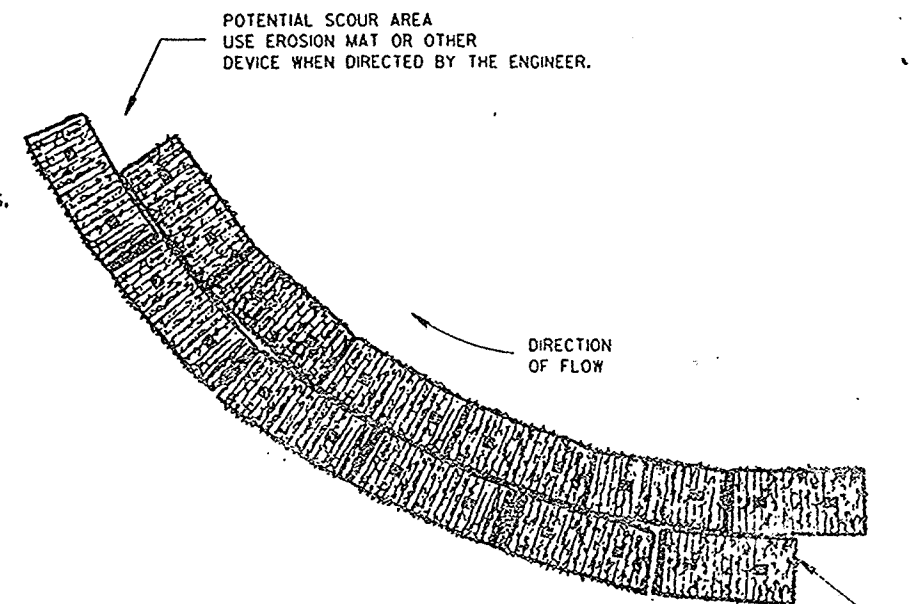


PLAN VIEW



FRONT ELEVATION

EROSION BALES FOR CHANNEL FLOW



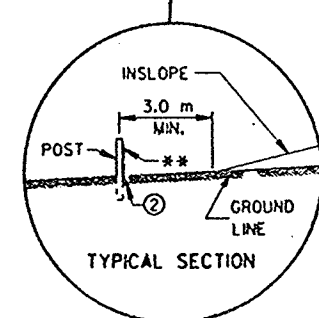
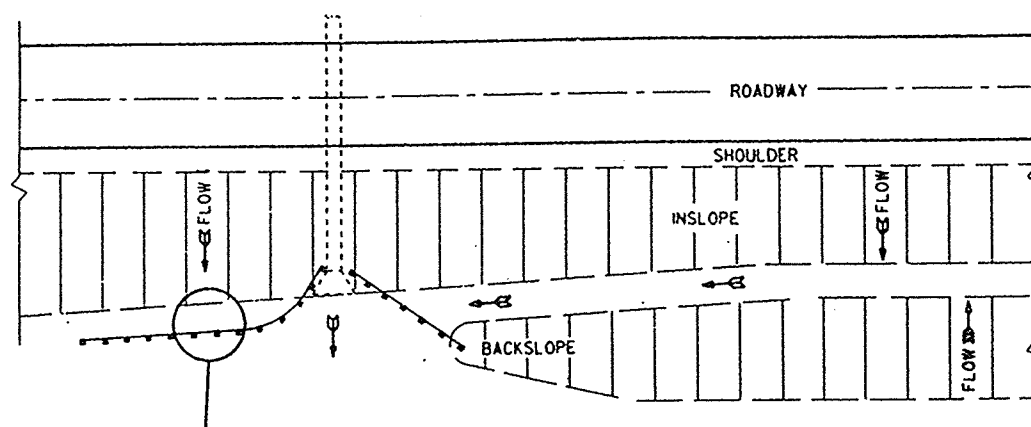
PLAN VIEW

EROSION BALES WHEN ALTERING THE DIRECTION OF FLOW

TYPICAL INSTALLATIONS
OF EROSION BALES

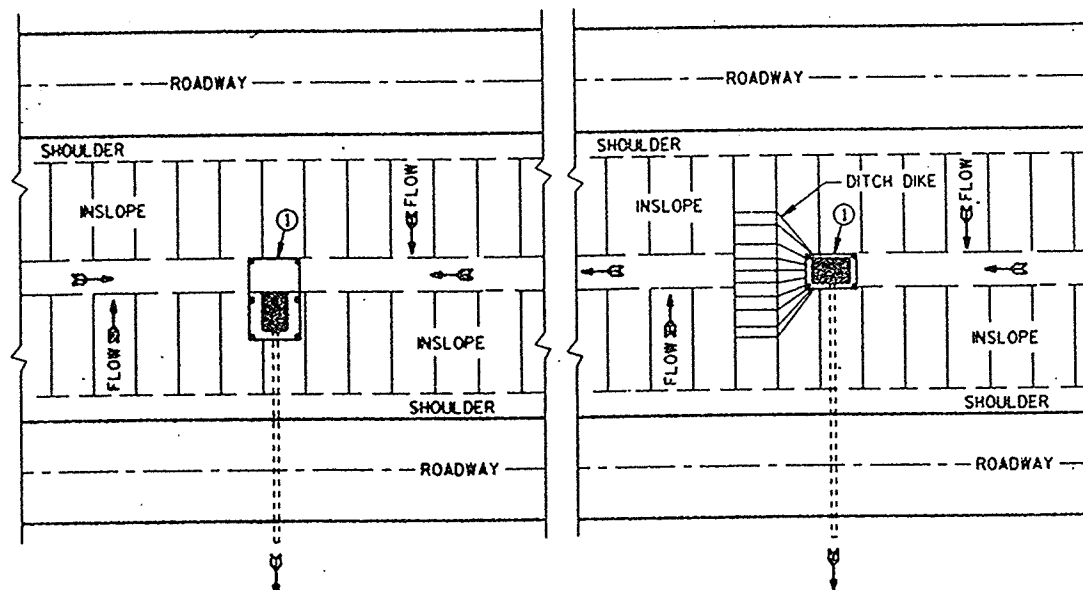
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
01/27/95
DATE
Roy W. Harrison
CHIEF ROADWAY DEVELOPMENT ENGINEER
FWHA



PLAN VIEW

TYPICAL APPLICATIONS OF SILT FENCE

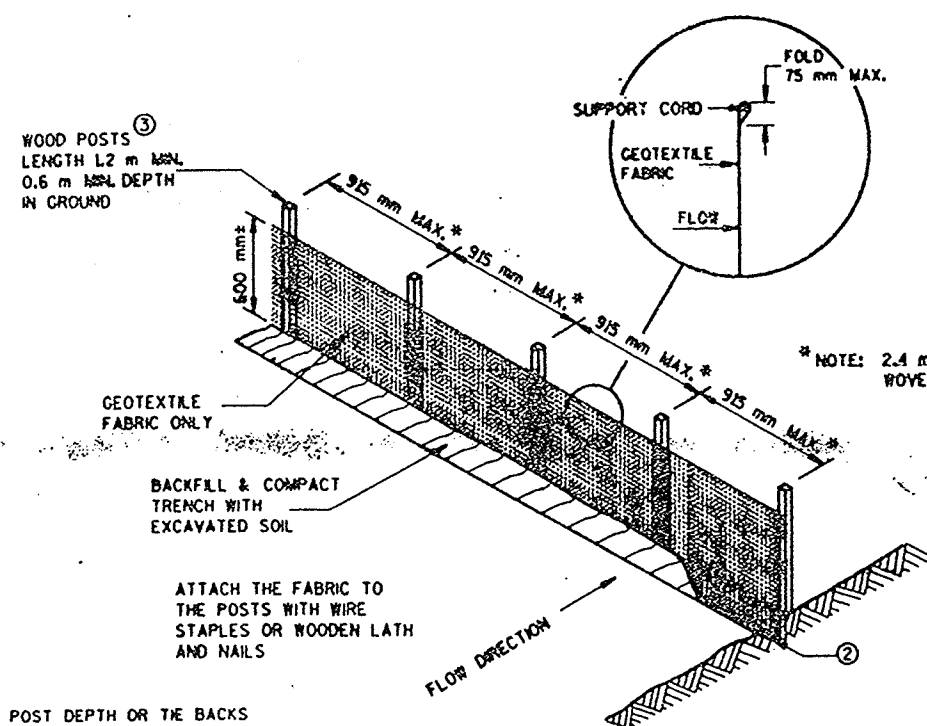


SITUATION 1

SITUATION 2

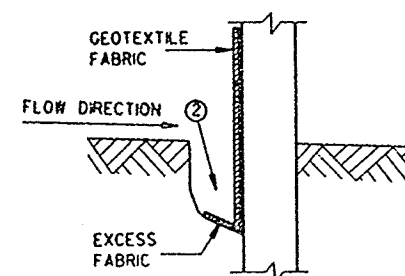
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

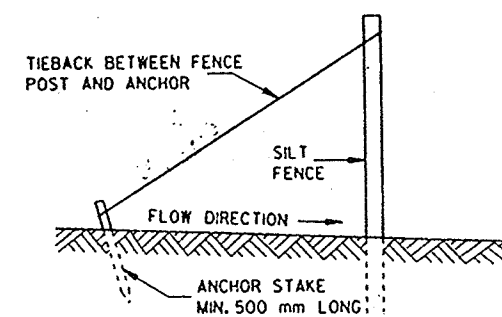


NOTE: ADDITIONAL POST DEPTH OR THE BACKS MAY BE REQUIRED IN UNSTABLE SOILS

SILT FENCE (NON-REINFORCED)



TRENCH DETAIL



SILT FENCE TIE BACK (WHEN REQUIRED BY THE ENGINEER)

GENERAL NOTES

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

- ① HORIZONTAL BRACE WITH 50 mm X 100 mm WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS AS DIRECTED BY THE ENGINEER.
- ② TRENCH SHALL BE A MINIMUM OF 100 mm WIDE & 150 mm DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- ③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 30 mm X 30 mm OF OAK OR HICKORY.

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

03/11/26

DATE

Roy L. Thiesman
CHIEF ROADWAY DEVELOPMENT ENGINEER

FWA

6.8

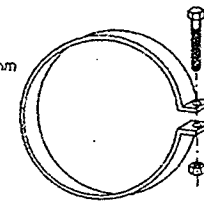
METAL APRON ENDWALLS												
PIPE DIA. (mm)	MIN. THICK. (mm)		DIMENSIONS (MILLIMETERS)							APPROX. SLOPE	BODY	
	STEEL	ALUM.	A (±1")	B (MAX.)	H (±1")	L (±1½")	L1 ①	L2 ①	W (±2")			
300	1.6	1.5	150	150	150	535	305	445	610	1:2.5	1 Pc.	
375	1.6	1.5	180	205	150	660	355	552	760	1:2.5	1 Pc.	
450	1.6	1.5	205	255	150	790	380	718	915	1:2.5	1 Pc.	
525	1.6	1.5	230	305	150	915	455	752	1065	1:2.5	1 Pc.	
600	1.6	1.5	255	330	150	1040	455	949	1220	1:2.5	1 Pc.	
750	2.0	1.9	305	405	205	1300	455	1327	1525	1:2.5	1 Pc.	
900	2.0	1.9	355	480	230	1525	610	1905	1830	1:2.5	2 Pc.	
1050	2.8	2.7	405	560	280	1755	610	1921	2135	1:2.5	2 Pc.	
1200	2.8	2.7	455	685	305	1980	610	2057	2285	1:2.5	3 Pc.	
1350	2.8	2.7	455	760	305	2140	760	2172	2590	1:2.25	3 Pc.	
1500	2.8x	2.7x	455	840	305	2210	—	—	2895	1:2	3 Pc.	
1650	2.8x	2.7x	455	915	305	2210	—	—	3050	1:2	3 Pc.	
1800	2.8x	2.7x	455	990	305	2210	—	—	3200	1:2	3 Pc.	
1950	2.8x	2.7x	455	1070	305	2210	—	—	3355	1:1.5	3 Pc.	
2100	2.8x	2.7x	455	1145	305	2210	—	—	3505	1:1.5	3 Pc.	
2250	2.8x	2.7x	455	940	305	2210	—	—	3660	1:1.5	3 Pc.	
2400	2.8x	2.7x	455	890	305	2210	—	—	3960	1:1.5	3 Pc.	

* EXCEPT CENTER PANEL
SEE GENERAL NOTES

REINFORCED CONCRETE APRON ENDWALLS								
PIPE DIA. (mm)	DIMENSIONS (MILLIMETERS)							APPROX. SLOPE
	T	A	B	C	D	E	G	
305	51	102	610	1241	1851	610	51	1:3
380	57	152	686	1168	1854	762	57	1:3
450	64	229	686	1168	1854	914	64	1:3
525	70	229	915	953	1867	1067	70	1:3
600	76	241	1105	762	1867	1219	76	1:3
675	83	267	1257	610	1867	1372	83	1:3
750	89	305	1372	502	1867	1524	89	1:3
900	102	381	1600	883	2483	1829	102	1:3
1050	114	533	1600	889	2489	1981	114	1:3
1200	127	610	1829	660	2489	2134	127	1:3
1350	140	686	1651	635 ***883**	2496 2530	2286	140	1:2.4
1500	152	*762 ***924	1524	991	2515	2448	152	1:2
1650	165	*610 ***762**	*1829 ***1981	*533 ***586	2515	2591	165	1:2
1800	178	*610 ***815	1981	533	2515	2743	152	1:2
1950	190	*610 ***915	1981	533	2515	2896	165	1:2
2100	203	915	2299	533	2832	3048	165	1:1.5
2250	216	1041	2222	610	2832	3353	165	1:1.5

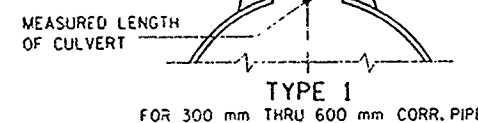
* MINIMUM
** MAXIMUM

25 mm WIDE, 2.7 mm
THICK GALVANIZED STRAP
WITH STANDARD 152 mm X 13 mm
BAND BOLT AND NUT



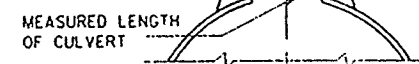
ALTERNATE FOR TYPE 1 CONNECTION
END SECTION CONNECTOR STRAP

THREADED 11 mm DIA. ROD
AROUND CULVERT & THROUGH
RANK TYPE CONNECTOR LUG
OR ALTERNATE CONNECTOR
STRAP (SEE DETAIL)



TYPE 1
FOR 300 mm THRU 600 mm CORR. PIPE

THREADED 11 mm DIA. ROD
OVER TOP OF APRON, SIDE
LUGS TO BE RIVETED TO
APRON



TYPE 2
FOR 750 mm THRU 2400 mm CORR. PIPE

MEASURED LENGTH
OF CULVERT

COUPLING BAND
REQUIRED

CONNECTOR
SECTION

CONNECTOR SECTION
TO BE PAID FOR AS
PART OF END SECTION

305 mm

RIVETED OR
BOLTED

TYPE 3
FOR 1050 mm THRU 2400 mm CORR. PIPE

DIMPLED OR CORRUGATED
COUPLING BAND

2 - 13 mm X 152 mm
BAND BOLTS

RIVETED OR BOLTED AT
DIMPLES (152 mm C-C FOR
CORRUGATED BAND)

MEASURED
LENGTH
OF CULVERT

TYPE 5

ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

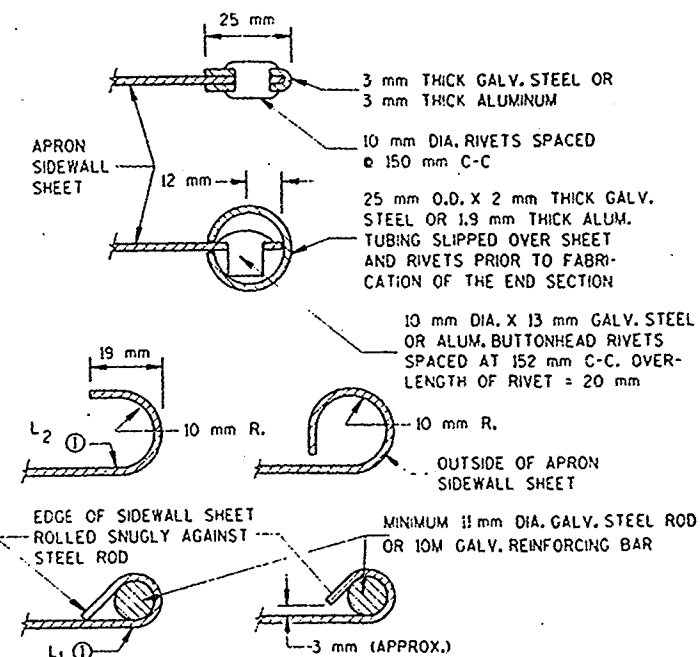
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL,
AND CORRUGATED BAND FITS INSIDE ENDWALL.
DIMPLED BAND MAY BE USED WITH HELICALLY
CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE
ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5
AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL
CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO
CIRCUMFERENTIAL CORRUGATIONS AT EACH END
USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

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.

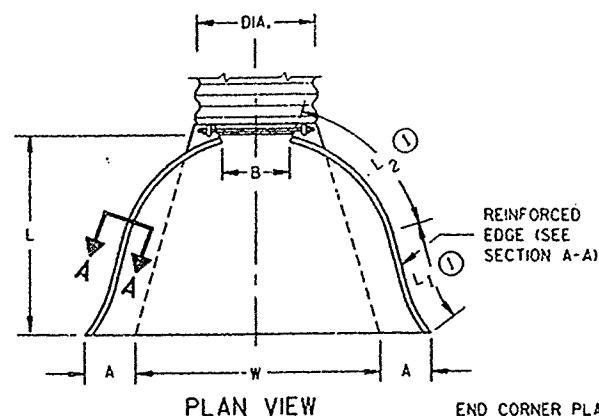
CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL
OR ALUMINUM CULVERT PIPE OR VICE VERSA. GALVANIZED STEEL OR
ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE
OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 1500 mm DIAMETER PIPE AND
LARGER SHALL HAVE 2.8 mm SIDES AND 3.5 mm CENTER PANELS. ALL
THREE PIECE ALUMINUM APRON ENDWALLS FOR 1500 mm DIAMETER PIPE AND
LARGER SHALL HAVE 3.4 mm SIDES AND 3.4 mm CENTER PANELS. THE WIDTH
OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE
PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR
STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE
1500 mm THROUGH 2400 mm DIAMETER APRON ENDWALL SIZES, THE REINFORCED
EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH
GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE
ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM
NUTS AND BOLTS FOR ALUMINUM UNITS.

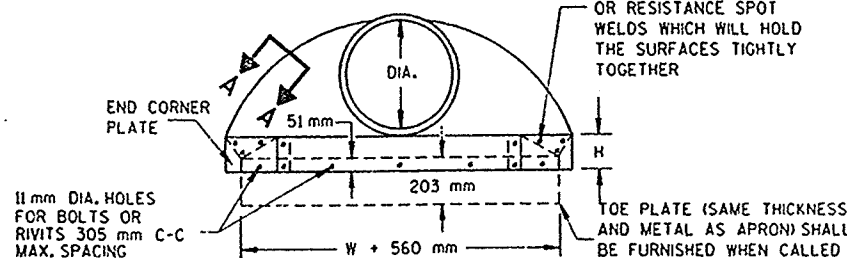
WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT
TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT
TO PROVIDE A MINIMUM CLEARANCE OF 152 mm BETWEEN APRON ENDWALLS.

① FOR PIPE SIZES UP TO 1500 mm DIAMETER, A 180° ROLLED EDGE MAY BE USED
INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.



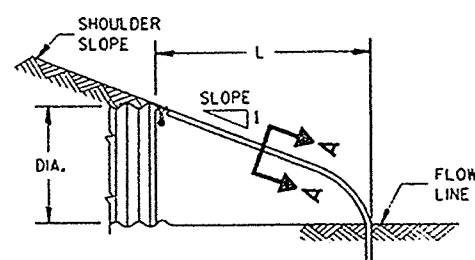
PLAN VIEW

END CORNER PLATES MAY
BE FASTENED TO APRON
PROPER BY BOLTS, RIVETS,
OR RESISTANCE SPOT
WELDS WHICH WILL HOLD
THE SURFACES TIGHTLY
TOGETHER

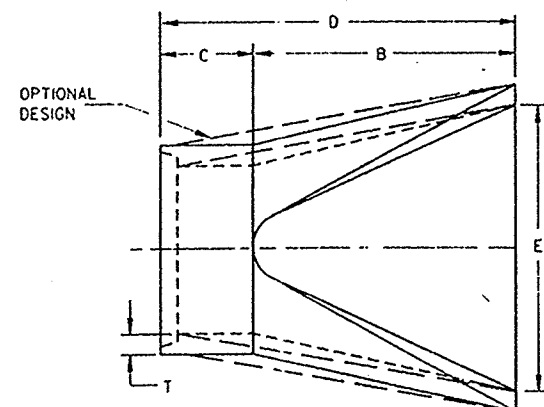


END VIEW

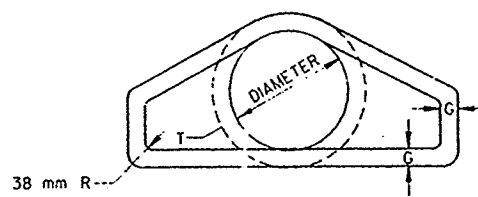
TOE PLATE (SAME THICKNESS
AND METAL AS APRON) SHALL
BE FURNISHED WHEN CALLED
FOR ON THE PLANS



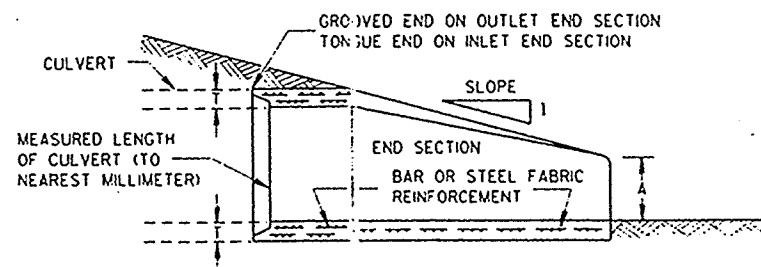
SIDE ELEVATION
METAL ENDWALLS



PLAN



END VIEW



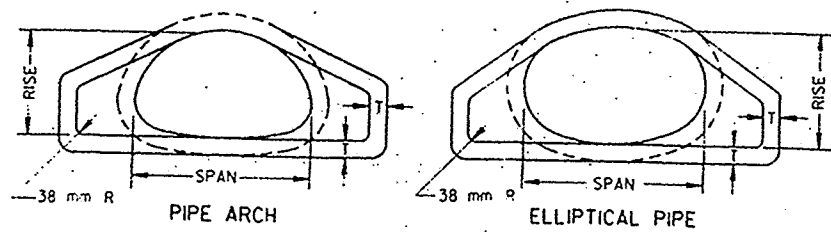
LONGITUDINAL SECTION
CONCRETE ENDWALLS

APRON ENDWALLS FOR
CULVERT PIPE

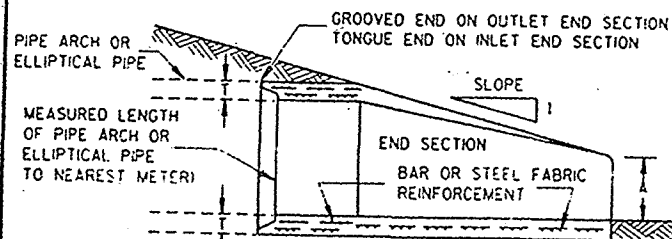
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
01/27/95
DATE
CHIEF ROADWAY DEVELOPMENT ENGINEER

6.9

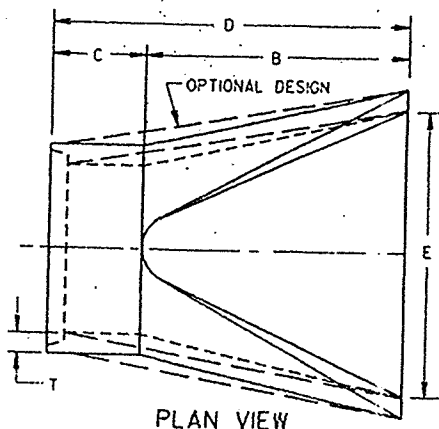


END VIEW

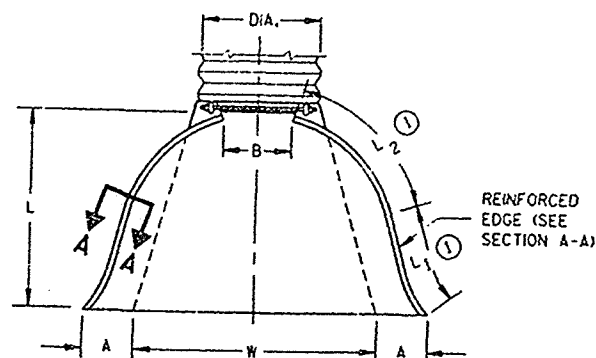


LONGITUDINAL SECTION

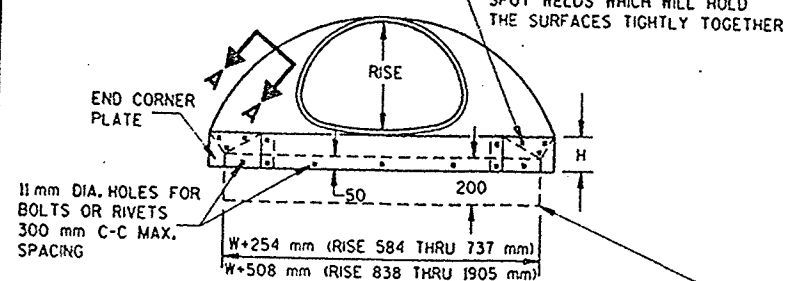
CONCRETE ENDWALLS



PLAN VIEW

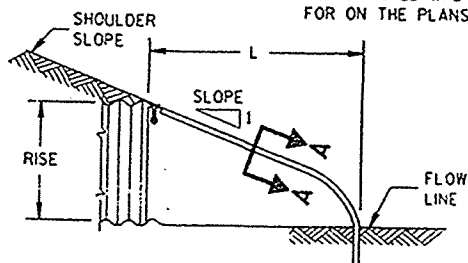


PLAN VIEW

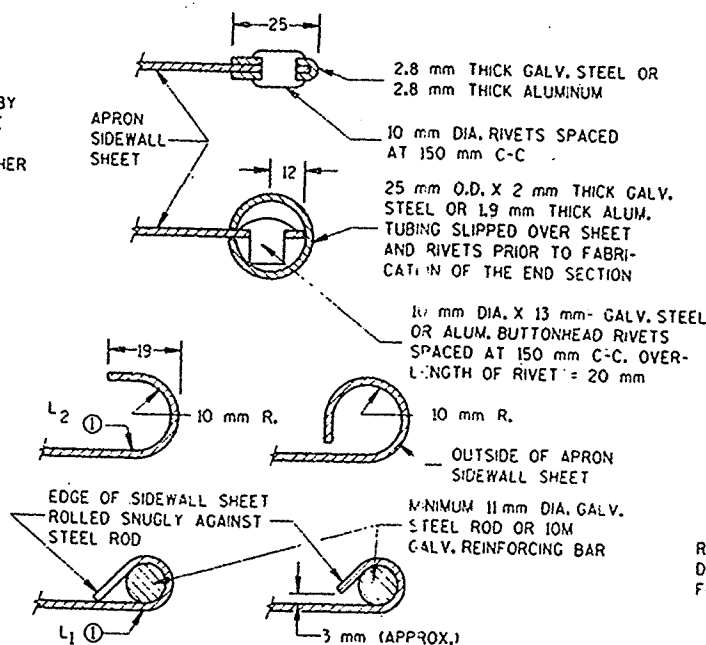


END VIEW

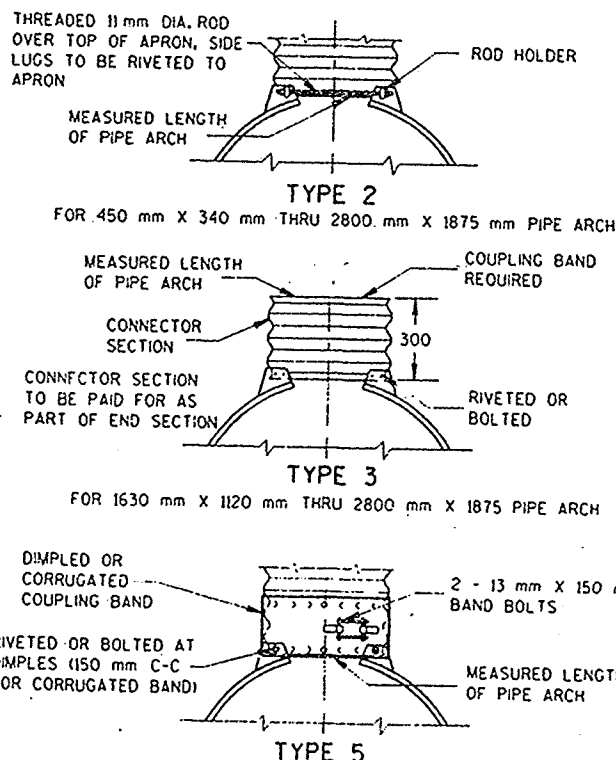
TOE PLATE (SAME THICKNESS AND METAL AS APRON) SHALL BE FURNISHED WHEN CALLED FOR ON THE PLANS



SIDE ELEVATION
METAL ENDWALLS



SECTION A-A



NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL.

CONNECTION DETAILS

68 X 13 CORRUGATIONS (mm)													
EQUIV. DIA. (mm)	(mm)		MIN. THICK. (mm)		DIMENSIONS (mm)							APPROX. SLOPE	BODY
	SPAN	RISE	STEEL	ALUM.	A (±25)	B (MAX.)	H (±25)	L (±37)	L1 (1)	L2 (1)	W (±50)		
400	450	340	1.63	1.52	175	225	150	475	350	406	750	1:2.5	1 Pc.
450	510	380	1.63	1.52	175	250	150	575	350	492	900	1:2.5	1 Pc.
500	560	420	1.63	1.52	200	300	150	700	450	552	1050	1:2.5	1 Pc.
600	680	500	1.63	1.52	225	350	150	800	450	701	1200	1:2.5	1 Pc.
800	910	660	2.27	1.91	250	400	150	975	450	956	1500	1:2.5	1 Pc.
900	1030	740	2.27	1.91	300	450	200	1150	600	1153	1875	1:2.5	1 Pc.
1000	1150	820	2.77	2.67	325	525	225	1325	600	1391	2125	1:2.5	2 Pc.
1200	1390	970	2.77	2.67	450	650	300	1575	600	1727	2250	1:2.5	3 Pc.
1400	1630	1120	2.77	2.67	450	750	300	1750	600	1848	2550	1:2.25	3 Pc.
1600	1880	1260	2.77*	2.67*	450	825	300	1925	780	2089	2850	1:2.25	3 Pc.
1650	1925	1300	2.77*	2.67*	450	900	300	1925	—	—	3150	1:2	3 Pc.
1800	2130	1400	2.77*	2.67*	450	975	300	1925	—	—	3450	1:2	3 Pc.

75 X 25 CORRUGATIONS (mm)													
EQUIV. DIA. (mm)	(mm)		MIN. THICK. (mm)		DIMENSIONS (mm)							APPROX. SLOPE	BODY
	SPAN	RISE	STEEL	ALUM.	A (±25)	B (MAX.)	H (±25)	L (±37)	L1 (1)	L2 (1)	W (±50)		
1200	1325	1025	2.7	2.6	450	26	300	1575	600	1848	2250	1:2.5	2 Pc.
1350	1500	1150	2.7	2.6	450	30	300	1750	750	2096	2550	1:2	2 Pc.
1500	1650	1275	2.7*	2.6*	450	33	300	1925	—	—	2850	1:1.5	3 Pc.
1650	1825	1375	2.7*	2.6*	450	36	300	1925	—	—	3150	1:1.5	3 Pc.
1800	2025	1475	2.7*	2.6*	450	39	300	1925	—	—	3450	1:2	3 Pc.
1950	2175	1575	2.7*	2.6*	450	38	300	1925	—	—	3700	1:1.5	3 Pc.
2100	2375	1675	2.7*	2.6*	550	34	300	1925	—	—	4050	1:1.5	3 Pc.
2250	2575	1775	2.7*	2.6*	550	38	300	1925	—	—	4350	1:1.5	3 Pc.
2400	2800	1875	2.7*	2.6*	600	40	300	1925	—	—	4350	1:1.5	3 Pc.

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

* EXCEPT CENTER PANEL SEE GENERAL NOTES

REINFORCED CONCRETE PIPE ARCH											
EQUIV. DIA. (mm)	DIMENSIONS (mm)								APPROX. SLOPE		
	** RISE	** SPAN	T	A	B	C	D	E			
600	460	725	76	216	975	825	1800	1200	1:3		
750	570	920	89	242	1250	1150	2400	1500	1:3		
900	675	1100	102	283	1500	900	2400	1800	1:3		
1050	795	1300	114	402	1500	900	2400	1950	1:3		
1200	915	1485	127	533	1500	900	2400	2100	1:3		
1350	1015	1650	138	648	1500	900	2400	2250	1:3		
1500	1145	1855	152	787	1500	900	2400	2400	1:3		
1800	1370	2235	178	787	1500	975	2475	3000	1:2		
2100	1575	2590	203	724	2075	475	2550	3600	1:2		

REINFORCED CONCRETE ELLIPTICAL PIPE											
EQUIV. DIA. (mm)	DIMENSIONS (mm)								APPROX. SLOPE		
	** RISE	** SPAN	T	A	B	C	D	E			
600	490	770	81	216	975	825	1800	1200	1:3		
750	610	960	94	241	1350	450	1800	1500	1:3		
900	730	1150	106	286	1500	600	2100	1800	1:2.5		
1050	855	1345	125	400	1500	900	2400	1950	1:2.5		
1200	975	1535	137	533	1500	900	2400	2100	1:2.5		
1350	1095	1730	150	648	1500	900	2400	2250	1:2.5		
1550	1220	1920	163	762	1500	900	2400	2400	1:2.5		

** NOMINAL SIZE

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.

CONCRETE APRON ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VICE VERSA. GALVANIZED STEEL OR ALUMINUM APRON ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 1650 X 1275 mm PIPE ARCH AND LARGER SHALL HAVE 2.8 mm SIDES AND 3.4 mm CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 1650 X 1275 mm PIPE ARCH AND LARGER SHALL HAVE 2.7 mm SIDES AND 3.4 mm CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE ARCH PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 1925 mm X 1300 mm THROUGH 2800 mm X 1875 mm APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 150 mm BETWEEN APRON ENDWALLS.

① FOR PIPE ARCH SIZES UP TO 1825 mm X 1375 mm A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

NOTE

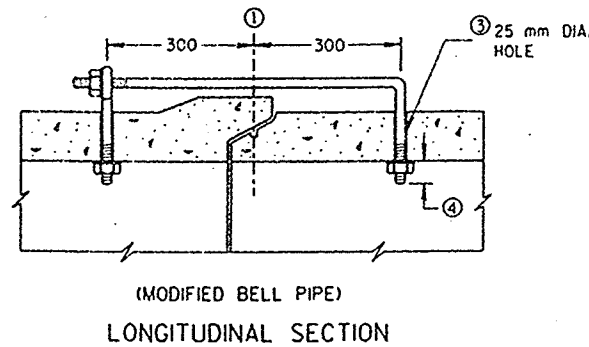
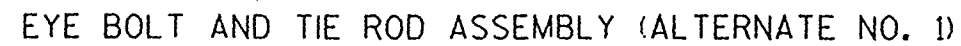
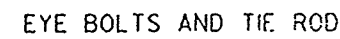
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

SLOPE RATIOS ARE SHOWN WITH THE VERTICAL COMPONENT FIRST AND THEN THE HORIZONTAL (RISE:RUN).

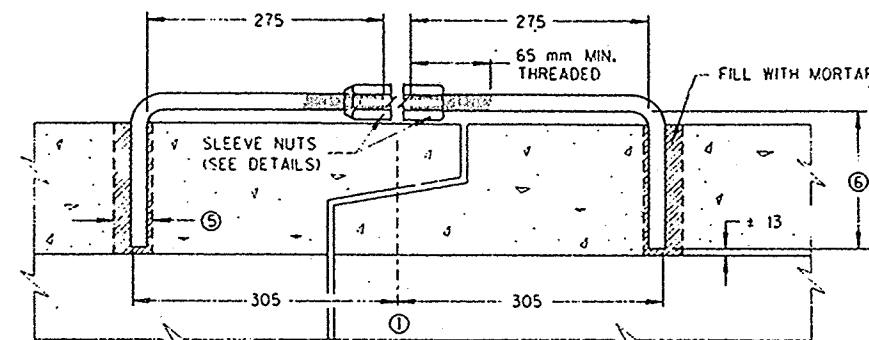
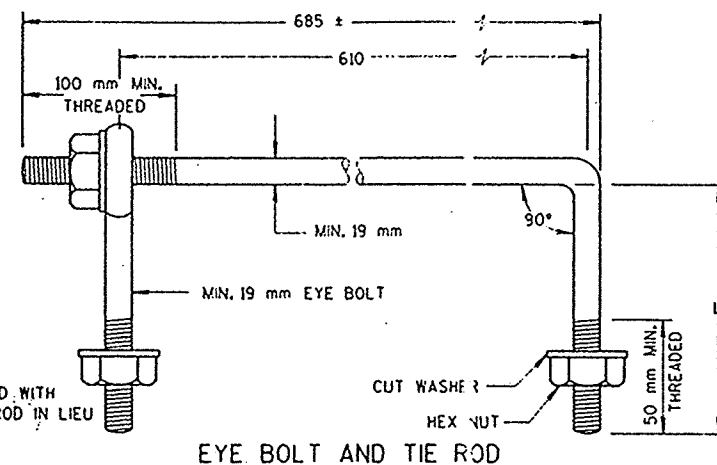
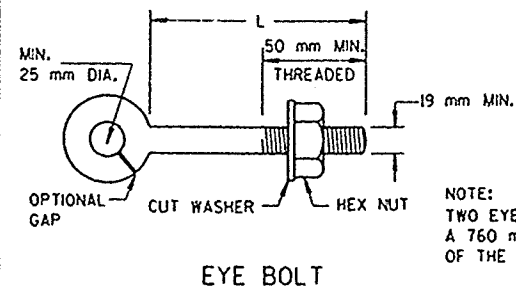
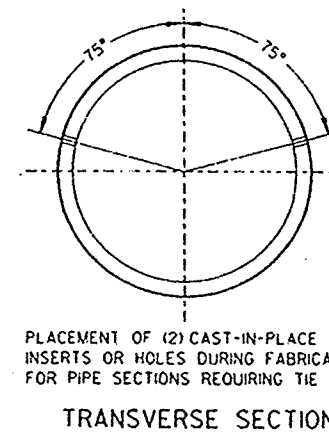
APRON ENDWALLS FOR
PIPE ARCH AND
ELLIPTICAL PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
01/27/85
DATE
Randy L. Rhinow
CHIEF ROADWAY DEVELOPMENT ENGINEER



The diagrams illustrate two types of sleeve nuts. The left diagram, labeled 'TAPERED', shows a sleeve nut with a tapered body. It has a total length L_1 , a diameter D at the right end, and a section of length N at the left end. The right diagram, labeled 'PLAIN', shows a sleeve nut with a uniform diameter D and a total length L_1 . Both diagrams indicate 'RIGHT AND LEFT THREADS' on the sleeve nut.



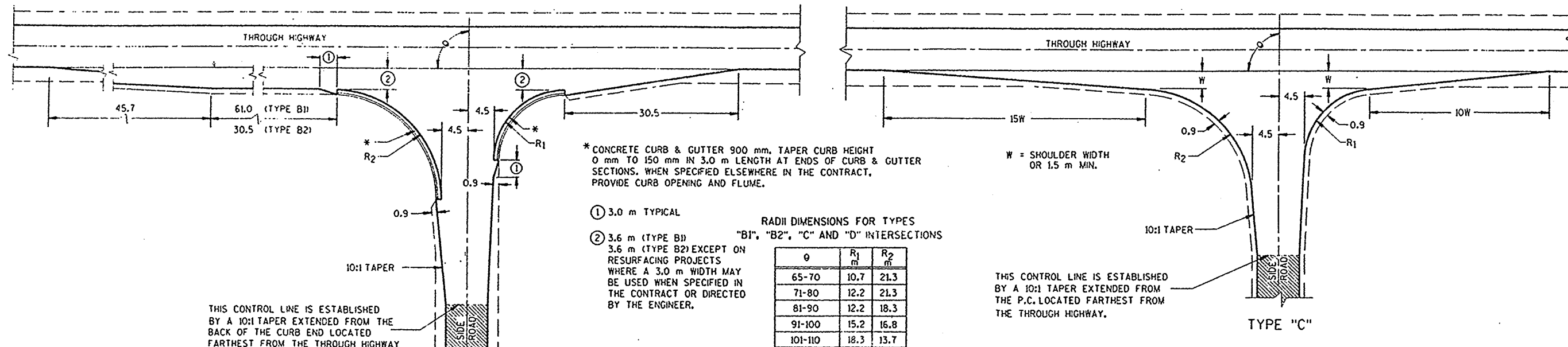
- ① CENTERLINE OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.
- ② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.
- ③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED.
- ④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 50 mm.
- ⑤ ROD DIAMETER + 25 mm.
- ⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 13 mm OF THE INNER SURFACE OF THE PIPE.

NOTE
ALL DIMENSIONS IN THIS DRAWING ARE IN MILLIMETERS.

APPROVED
01/27/95
DATE

Pony L. Harrison
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA



GENERAL NOTES

DESIGNS MAY BE USED INTERCHANGEABLY IN COMBINATION OR SEPARATELY FOR ANY ONE COMPLETE INTERSECTION DEPENDING UPON INTERSECTION ANGLE AND SURFACING OF EACH APPROACH ROADWAY.

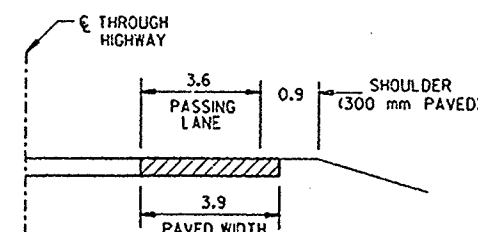
SIDE ROAD SURFACING NOTE

WHEN THE SIDE ROAD IS NOT PRESENTLY PAVED, PAVEMENT SHALL BE PLACED TO THE LIMITS SHOWN UNLESS OTHERWISE PROVIDED IN THE CONTRACT. WHERE THE CONSTRUCTION LIMITS ARE BEYOND THE PAVING LIMITS, CRUSHED AGGREGATE SURFACING SHALL BE PLACED BETWEEN THE PAVING LIMITS AND CONSTRUCTION LIMITS.

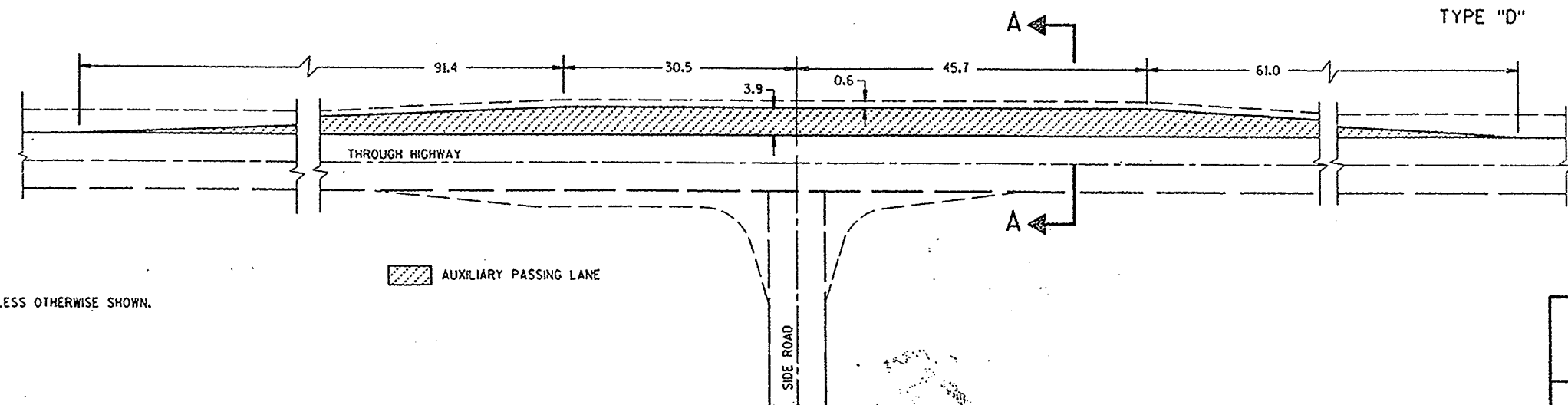
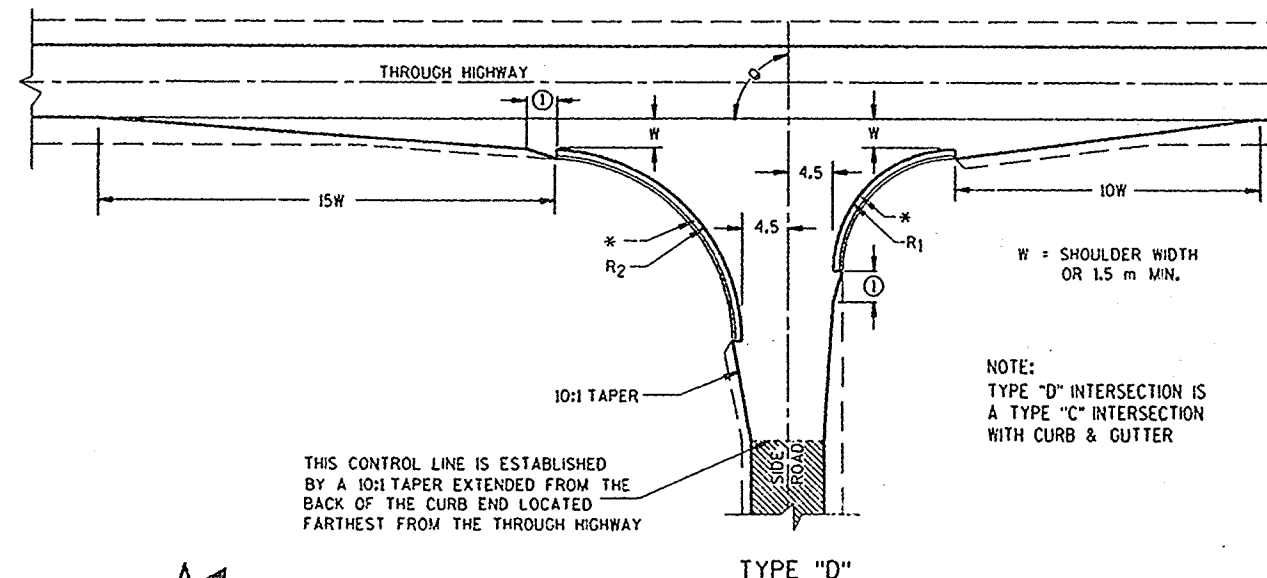
WHEN THE SIDE ROAD IS PRESENTLY PAVED, NEW PAVEMENT SHALL BE PLACED TO THE LIMITS OF DESIGN AS SHOWN AND BEYOND, IF NECESSARY, TO MEET EXISTING PAVEMENT.

WHEN THE SIDE ROAD IS THE CONSTRUCTION PROJECT, THE INTERSECTION SURFACING SHALL BE THE SAME AS FOR THE PROJECT.

EXISTING SURFACE



SECTION A-A
(SHOWING PASSING LANE AND SHOULDER)



NOTE:

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

AT-GRADE SIDE ROAD
INTERSECTION, TYPES "B1", "B2", "C"
AND "D" AND PASSING LANE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/10/96
DATE
Roy L. Thompson
CHIEF ROADWAY DEVELOPMENT ENGINEER

2.3.4.5.6.7.8.9.10.11.12.13.14.15.16.17.18.19.20.21.22.23.24.25.26.27.28.29.30.31.32.33.34.35.36.37.38.39.40.41.42.43.44.45.46.47.48.49.50.51.52.53.54.55.56.57.58.59.60.61.62.63

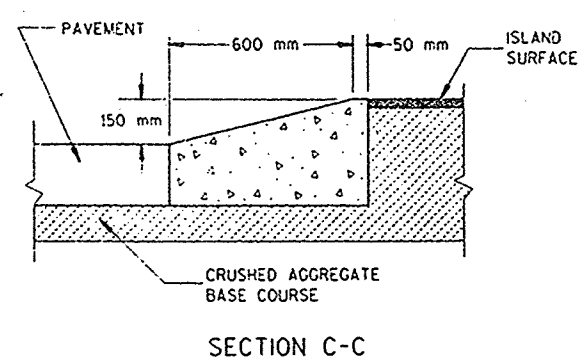
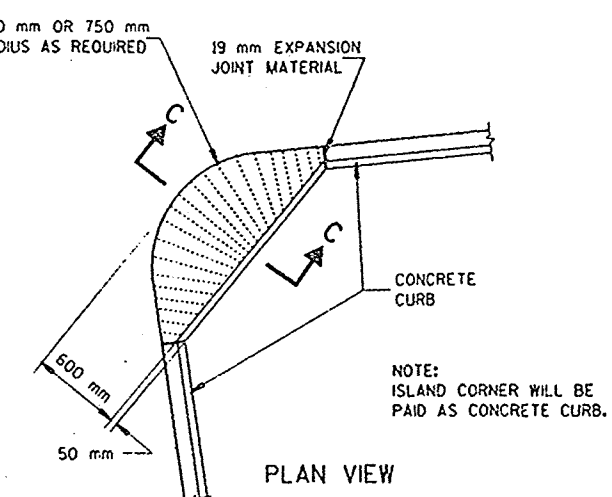
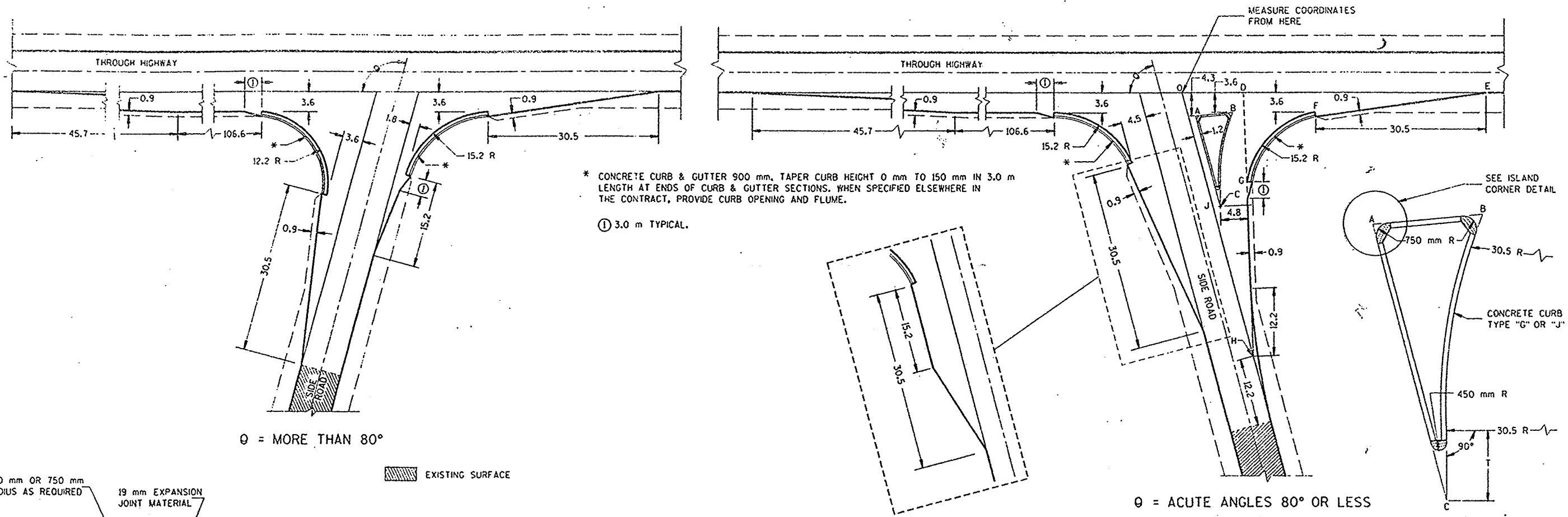


TABLE OF DIMENSIONS FOR
VARIABLE SIDE ROAD INTERSECTION ANGLES
(INTERPOLATE VALUES FOR ANGLES NOT SHOWN)

ANGLE θ DEGREES	COORDINATES IN METERS (MEASURED FROM POINT "O")								LENGTH IN METERS				
	A	B	C	D	E	F	G	H	AB	AC	T	OJ	OH
60	3.87	13.52	14.13	12.59	61.85	31.72	19.40	25.90	9.68	20.52	1.80	26.18	51.79
	-4.30	-3.60	-22.07	0.0	0.0	-3.60	-22.96	-44.85					
65	3.33	11.74	11.51	11.84	59.15	29.02	16.39	21.50	8.44	19.36	2.90	24.66	50.87
	-4.30	-3.60	-21.84	0.0	0.0	-3.60	-21.75	-46.10					
70	2.84	10.19	9.06	11.22	56.76	26.62	13.79	17.11	7.38	18.19	3.78	23.20	50.02
	-4.30	-3.60	-21.39	0.0	0.0	-3.60	-20.52	-47.00					
75	2.39	8.82	6.79	10.72	54.60	24.47	11.53	12.73	6.46	16.99	4.46	21.76	49.19
	-4.30	-3.60	-20.71	0.0	0.0	-3.60	-19.28	-47.51					
80	1.98	7.61	4.72	10.32	52.67	22.54	9.60	8.41	5.68	15.81	5.02	20.39	48.43
	-4.30	-3.60	-19.87	0.0	0.0	-3.60	18.02	-47.69					

TYPE "A" SIDE ROAD INTERSECTION DETAILS

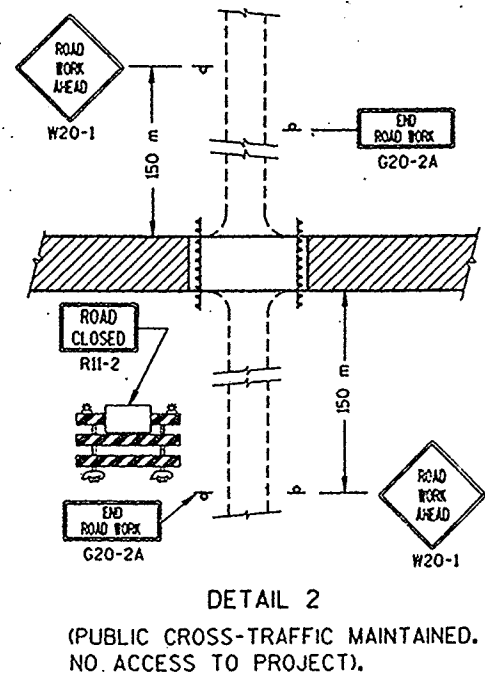
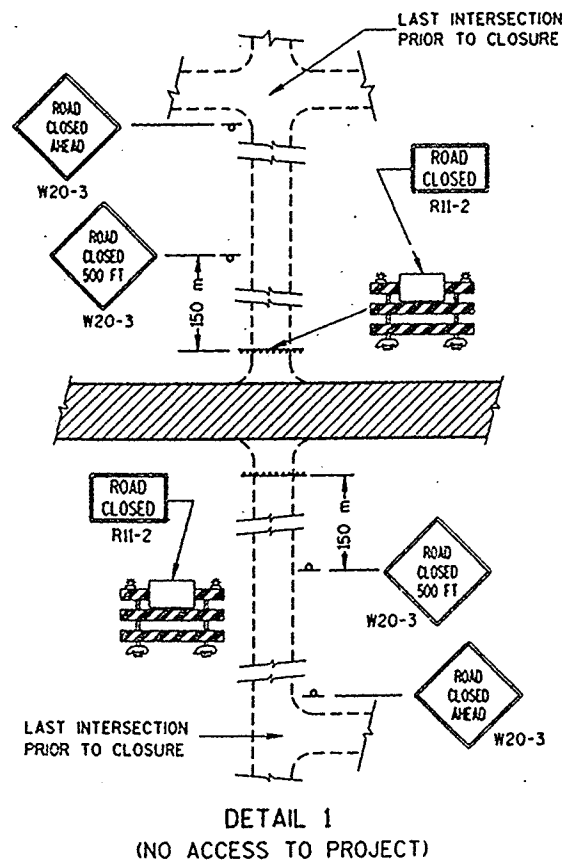
ISLAND CORNER DETAIL
(TO BE CONSTRUCTED AT ALL ISLAND CORNERS)

AT-GRADE SIDE ROAD
INTERSECTION, TYPE "A"

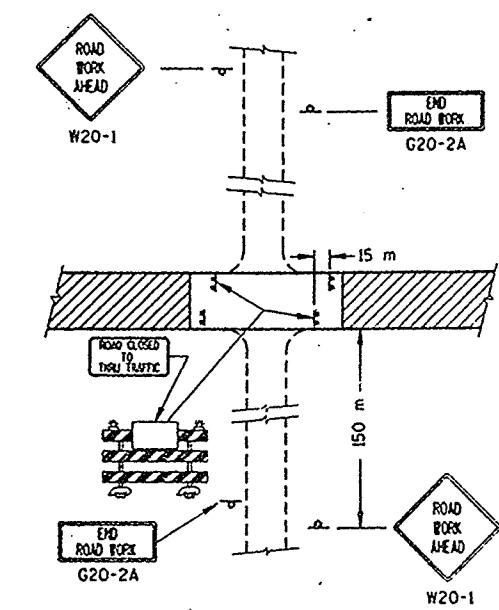
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6.13

S.D.D. 15 C 2-3
LEVELS ON - 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63



DETAIL 2
(PUBLIC CROSS-TRAFFIC MAINTAINED,
NO ACCESS TO PROJECT.)
SIDEROAD CLOSURES



DETAIL 3
(PUBLIC CROSS-TRAFFIC MAINTAINED, CONTRACTOR,
LOCAL BUSINESS AND RESIDENT ACCESS.)

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND THEIR LOCATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE WISCONSIN MANUAL OF TRAFFIC CONTROL DEVICES, THE PLANS, SPECIFICATIONS AND CONTRACT.

SIGN AND BARRICADE LOCATIONS MAY BE ADJUSTED IN THE FIELD AS DIRECTED BY THE ENGINEER. ANY EXISTING TRAFFIC SIGNS THAT CONFLICT WITH THIS WORK SHALL BE COVERED AS DIRECTED BY THE ENGINEER. ALL "STOP" OR OTHER REGULATORY SIGNS ON THE SIDE ROADS SHALL NOT BE DISTURBED, EXCEPT WHEN NECESSARY TO COMPLETE THE WORK. THE SIGNS MUST THEN BE IMMEDIATELY REESTABLISHED.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL FOR FULL ROAD CLOSURES. TYPE "A" LOW INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

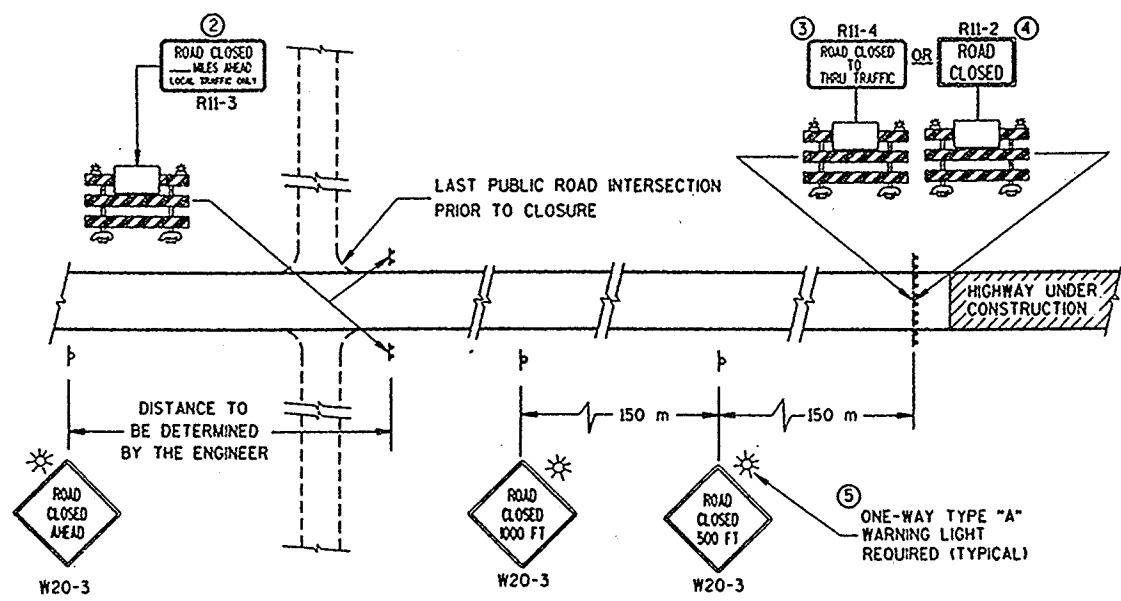
THE ROAD CLOSED SIGN (R11-2), ROAD CLOSED — MILES AHEAD SIGN (R11-3) AND THE ROAD CLOSED TO THRU TRAFFIC SIGN (R11-4) SHALL BE ATTACHED ONLY TO THE TOP RAIL OF THE TYPE III BARRICADE. THE SIGNS SHALL NOT COVER MIDDLE RAIL.

TYPE "H" REFLECTIVE SHEETING SHALL BE USED ON ALL BARRICADES, TYPE I, II AND III, AND ON ALL R11-3 AND R11-4 SIGNS.

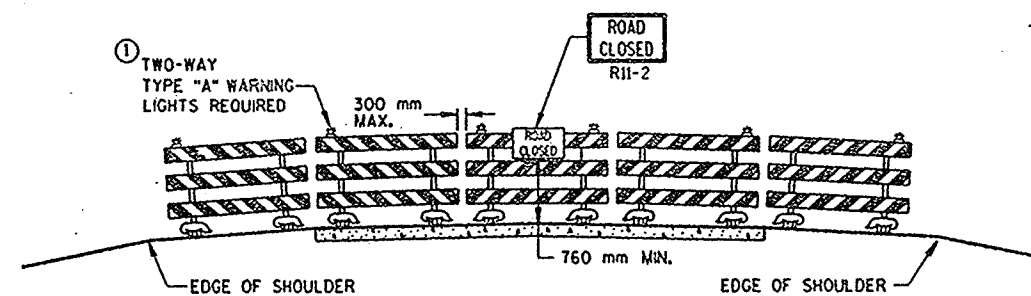
ALL SIGNS SHALL BE 1200 mm X 1200 mm UNLESS OTHERWISE NOTED BELOW:

- R11-2, "ROAD CLOSED" SIGNS SHALL BE 1200 mm X 750 mm.
- R11-3, AND R11-4 SIGNS SHALL BE 1500 mm X 750 mm.
- G20-2A SIGNS SHALL BE 1200 mm X 600 mm.

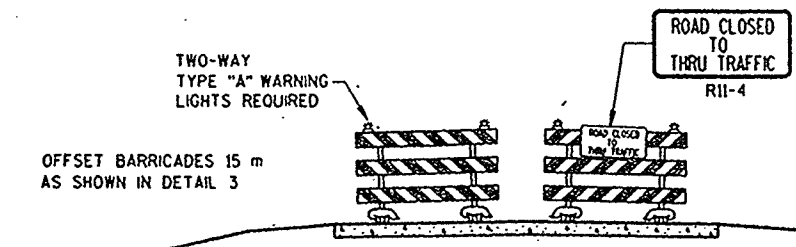
- 1 TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND AT LEAST ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN.
- 2 THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.
- 3 FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL.
- 4 FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL.
- 5 ONE-WAY LIGHTS SHALL BE PROVIDED ON ALL ADVANCE WARNING SIGNS. THE UNIT SHALL BE POSITIONED SUCH THAT THE LIGHT SOURCE IS OUTSIDE THE SIGN FACE AND AT THE TOP OF THE SIGN.



MAINLINE CLOSURE



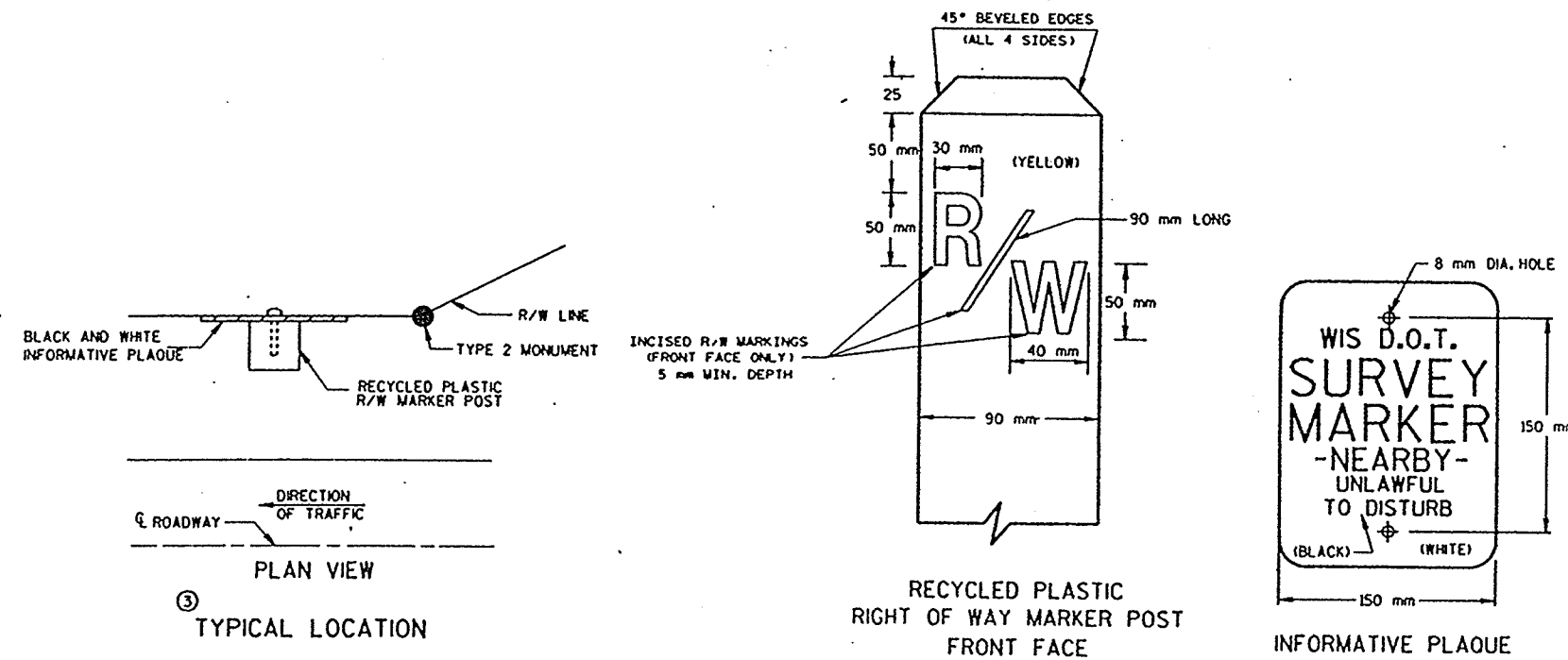
ROAD CLOSURE BARRICADE DETAIL



LANE CLOSURE BARRICADE DETAIL

- 1 POST MOUNTED WARNING SIGN
- 2 TYPE III BARRICADES WITH TYPE "H" REFLECTIVE SHEETING
- 3 TYPE "A" LOW INTENSITY FLASHING WARNING LIGHT (FOR NIGHT USE)
- 4 WORK AREA

BARRICADES AND SIGNS FOR ROAD CLOSURES	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 8-10-95 DATE	Charles J. Spang DIRECTOR, OFFICE OF TRAFFIC
FINRA	

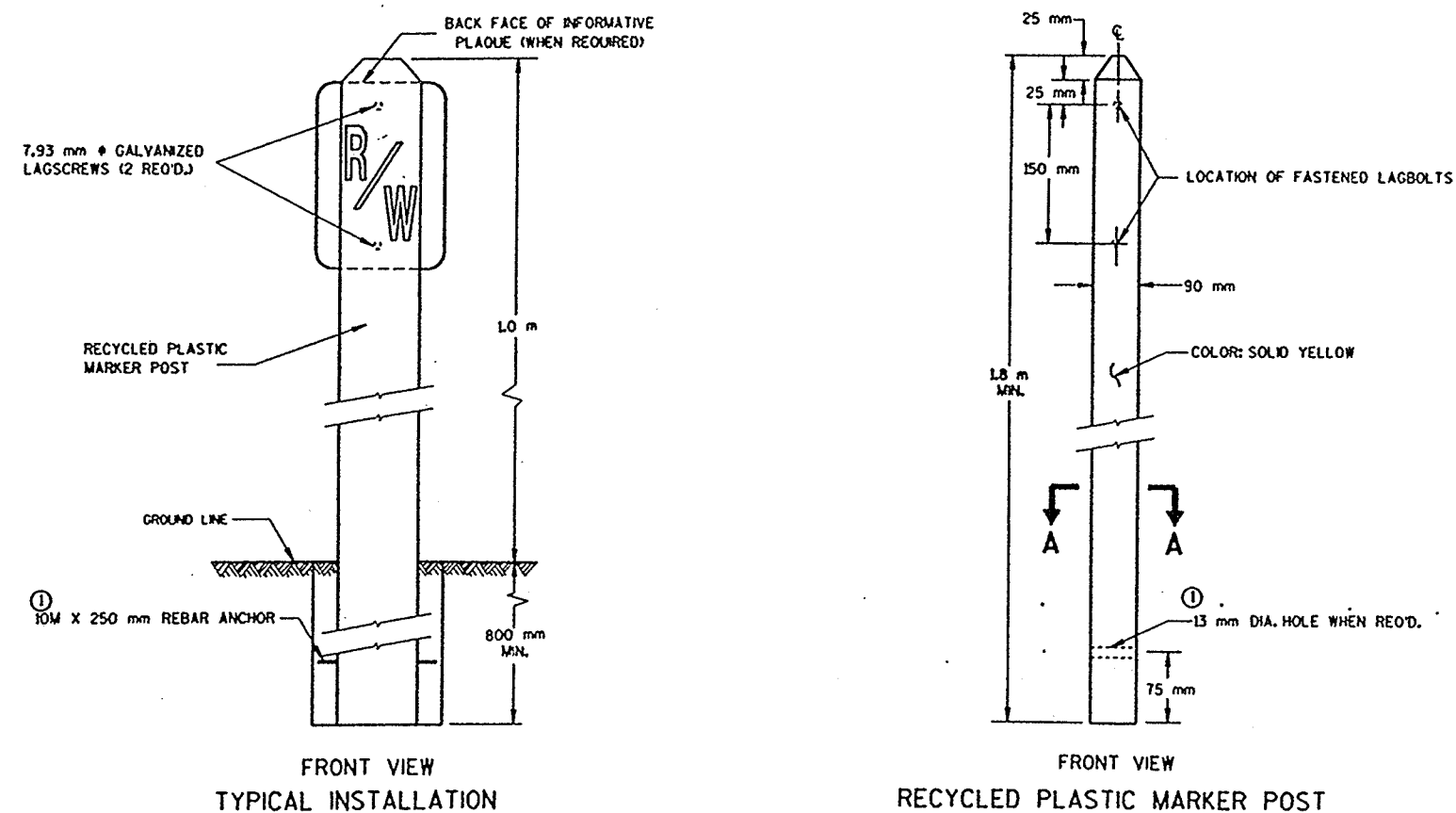


GENERAL NOTES:

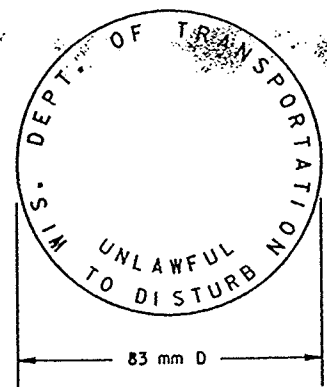
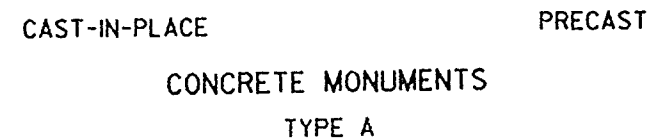
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

- ① POSTS SHALL BE ANCHORED AND SET INTO EXCAVATED HOLES AS ILLUSTRATED OR MAY BE DRIVEN AND ANCHORED INTO THE GROUND BY ALTERNATIVE DEVICES APPROVED BY THE ENGINEER.
- ② INFORMATIVE PLAQUES WILL BE FURNISHED BY THE DEPARTMENT OF TRANSPORTATION.
- ③ A MARKER POST FOR RIGHT OF WAY SHALL BE PLACED ADJACENT TO EACH TYPE 2 MONUMENT TO SERVE AS A GUARD POST, AND AT OTHER LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

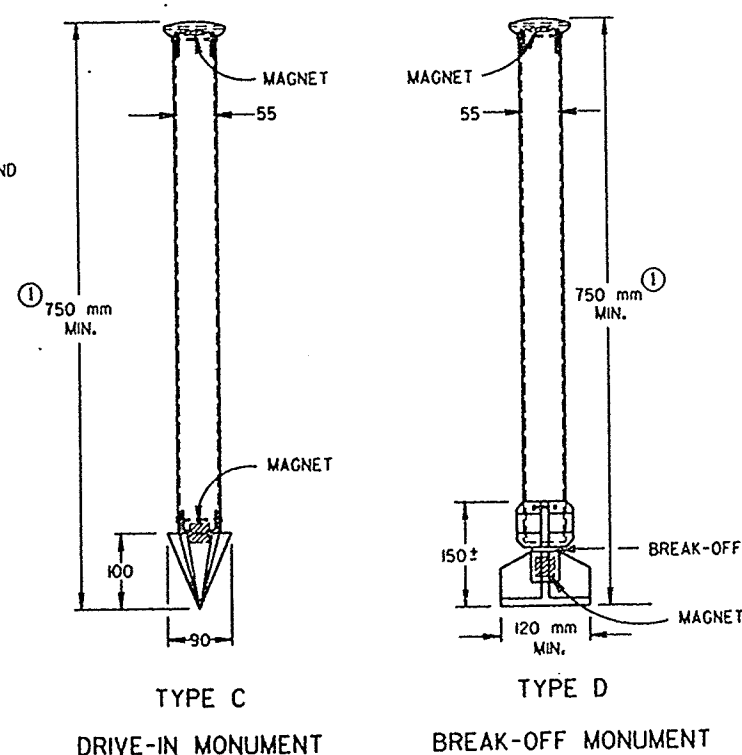
② MARKING & SIGNING DETAILS



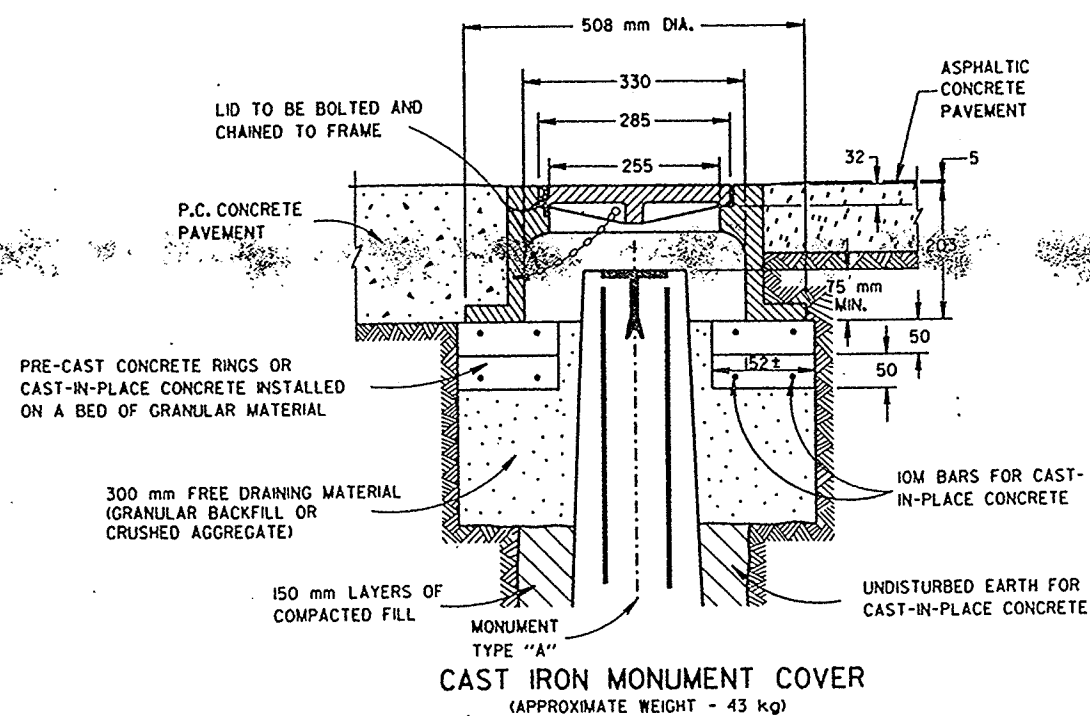
MARKER POSTS FOR RIGHT OF WAY	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 02/07/95 DATE	<i>Rory J. Thompson</i> CHIEF ROADWAY DEVELOPMENT ENGINEER



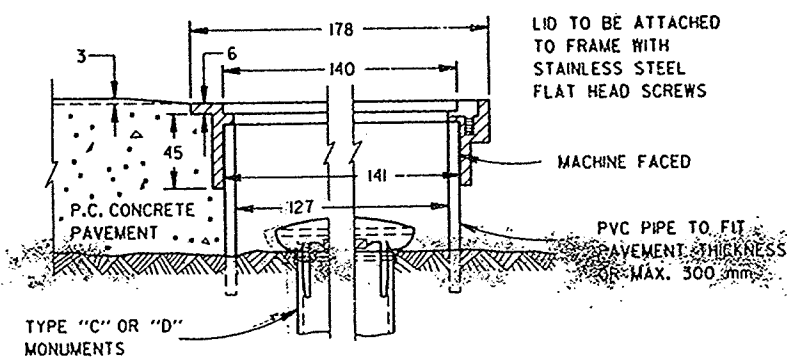
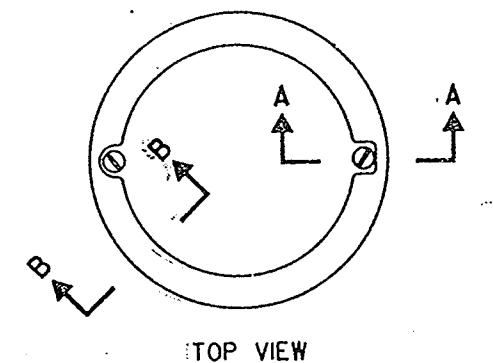
② WIS DOT MONUMENT MARKER LOGO
FOR TYPES "A", "C" & "D"



NOTE
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS SPECIFIED OTHERWISE.



② AN OFFICIAL COUNTY MONUMENT MARKER SUPPLIED BY A COUNTY MAY BE REQUIRED FOR SOME SECTION CORNERS. AND WITNESS MONUMENTS INSTEAD OF THIS WIS DOT MARKER.



SECTION B-B SECTION A-A
ALUMINUM MONUMENT COVER

(APPROXIMATE WEIGHT 0.9 kg)
(FOR CONCRETE PAVEMENT ONLY)

LANDMARK REFERENCE
MONUMENTS AND COVERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
02/07/95
DATE

Roy L. Hunsome
CHIEF ROADWAY DEVELOPMENT ENGINEER

ORIGINATOR: O'CONNOR
LEVELS ON
22.
REV. DATE: 2-6-97
PLOT NAME: D300A
5/
PLOT SCALE: 1:1

BALANCES SUMMARY

BALANCE #3 PROJECT 6517-6-73

STA. 11+960 - 12+360 STH 76 NORTH

COMMON EXCAVATION • 2,734 m3
FILL • 446 m3 FILL EXP. FACTOR = 1.33

HAUL OUT 2 141 m3 OF COMMON EXCAVATION TO STA. 19+970 - 20+140 CTH S EAST.

YARDAGE SUMMARY

STATION	COMMON EXCAVATION m3	FILL m3
STH 76 - NORTH		
BALANCE #3 PROJECT 6517-6-73		
11+960		
12+000	275	50
12+040	351	42
12+080	343	44
12+120	285	46
12+160	267	46
12+200	329	43
12+240	363	42
12+280	246	43
12+320	141	44
12+360	134	46
TOTALS	2,734	446

FOR INFORMATION ONLY
(BY OTHERS)

BALANCES SUMMARY

BALANCE #1

STA. 10+980 - 11+375 CTH S WEST - STH 76

COMMON EXCAVATION	• 8,610 m3	FILL EXP. FACTOR • 1.33
ROCK EXCAVATION	• 559 m3	ROCK EXP. FACTOR • 1.10
FILL	• 6,935 m3	
EBS	• 174 m3	

NOTE: COMMON EXCAVATION INCLUDES 250m3 OF CONCRETE PAVEMENT AND 250m3 OF SALVAGEABLE ASPHALTIC PAVEMENT

BALANCE #2

STA. 11+375 - 11+960 STH 76 NORTH

COMMON EXCAVATION	• 26,692 m3	
ROCK EXCAVATION	• 1,463 m3	ROCK EXP. FACTOR • 1.10
FILL	• 2,281 m3	FILL EXP. FACTOR • 1.33
EBS	• 425 m3	

HAUL OUT 1 609 m3 ROCK EXCAVATION AS WASTE.
HAUL OUT 3 851 m3 COMMON EXCAVATION TO STA. 1+440 - 1+518 STH 76 SOUTH.
HAUL OUT 2 572 m3 OF COMMON EXCAVATION TO STA. 19+970 - 20+140 CTH S EAST.
HAUL OUT 17 235 m3 OF COMMON EXCAVATION AS WASTE.

NOTE: COMMON EXCAVATION INCLUDES 1000m3 OF CONCRETE PAVEMENT REMOVAL AND 1400m3 OF SALVAGEABLE ASPHALTIC PAVEMENT

BALANCE #4

STA. 1+440 - 1+518 STH 76 SOUTH

COMMON EXCAVATION	• 172 m3	
FILL	• 3,025 m3	FILL EXP. FACTOR • 1.33

HAUL IN 3 851 m3 OF COMMON EXCAVATION FROM STA. 11+375 - 11+960 STH 76 NORTH.

NOTE: COMMON EXCAVATION INCLUDES 50m3 OF CONCRETE PAVEMENT REMOVAL AND 50m3 OF SALVAGEABLE ASPHALTIC PAVEMENT

BALANCE #5

STA. 19+970 - 20+140 CTH S

COMMON EXCAVATION	• 195 m3	
FILL	• 4,279 m3	FILL EXP. FACTOR • 1.33

HAUL IN 2 141 m3 OF COMMON EXCAVATION FROM STA. 11+960 - 12+375 STH 76 NORTH.
HAUL IN 783 m3 OF COMMON EXCAVATION FROM STA. 5+150 - 5+210 OAKCREST DRIVE.
HAUL IN 2 572 m3 COMMON EXCAVATION FROM STA. 11+375 - 11+960 STH 76 NORTH.

BALANCE #6

STA. 5+150 - 5+210 OAKCREST DRIVE

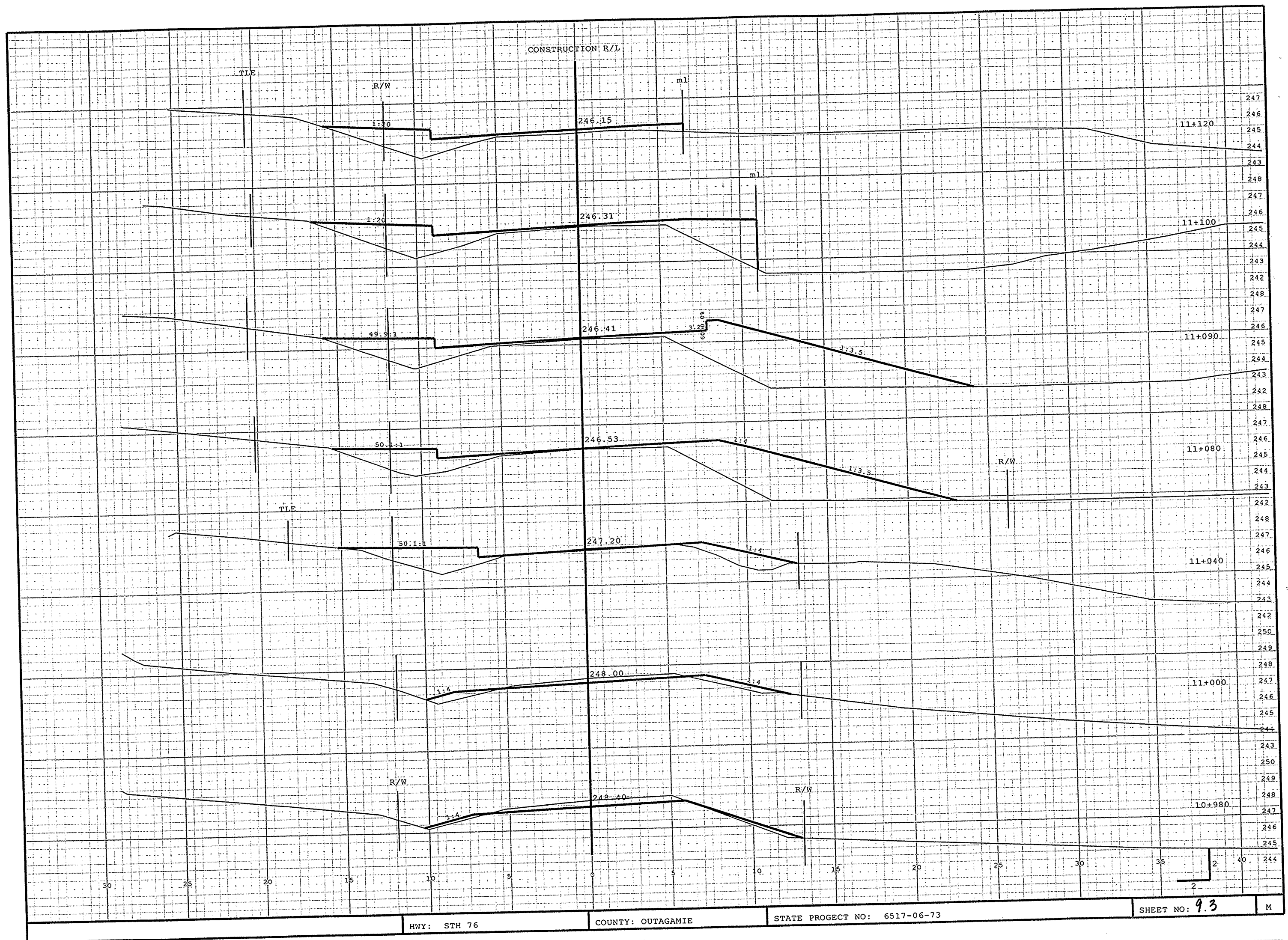
COMMON EXCAVATION	• 1,057 m3	
FILL	• 206 m3	FILL EXP. FACTOR • 1.33

HAUL OUT 783 m3 OF COMMON EXCAVATION TO STA. 19+970 - 20+140 CTH S EAST.

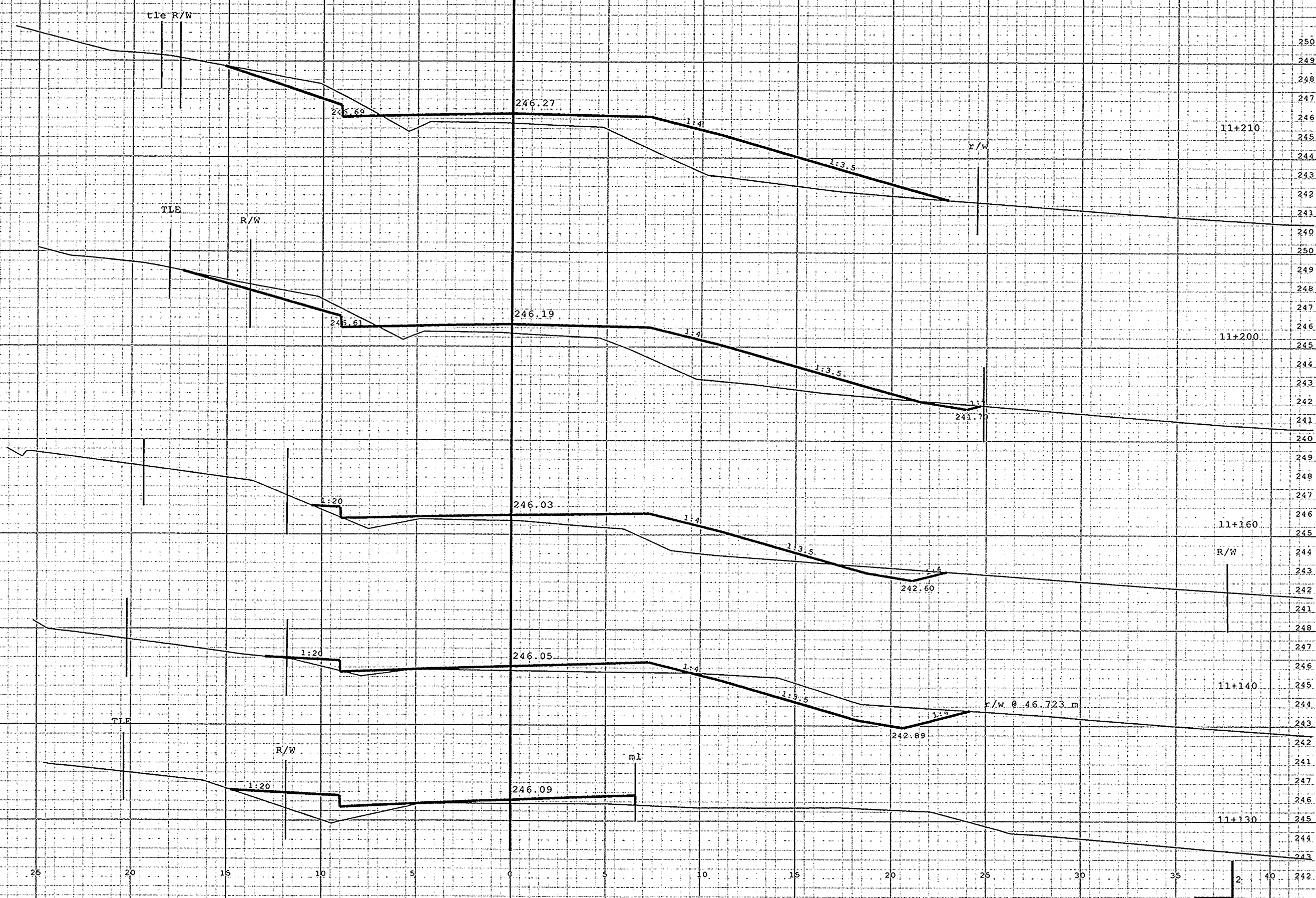
FOR INFORMATION ONLY
(BY OTHERS)

YARDAGE SUMMARY

STATION	COMMON EXCAVATION m3	ROCK EXCAVATION m3	FILL m3	STATION	COMMON EXCAVATION m3	ROCK EXCAVATION m3	FILL m3	STATION	COMMON EXCAVATION m3	FILL m3	STATION	COMMON EXCAVATION m3	FILL m3		
CTH S - STH 76				STH 76				STH 76 - SOUTH				OAKCREST DRIVE			
BALANCE #1				BALANCE #2				BALANCE #4				BALANCE #6			
10+980				11+375				1+440			5+150				
	61		65		1,065	149	11		54	241		39	10		
11+000				11+380				1+460			5+160				
	56		346		2,732	332	20		0	670		68	25		
11+040				11+400				1+480			5+170				
	9		1,069		4,675	284	39		0	511		104	40		
11+080				11+440				1+490			5+180				
	0		434		2,018	256	23		0	634		176	43		
11+090				11+460				1+500			5+190				
	0		350		1,586	204	30		63	642		284	43		
11+100				11+480				1+510			5+200				
	0		360		1,100	146	29		55	327		386	45		
11+120				11+500				1+518			5+210				
	0		113		819	82	62								
11+130				11+520				TOTALS			TOTALS				
	52		81		294	10	64		172	3,025		1,057	206		
11+140				11+530											
	124		243		347		199								
11+160				11+550				CTH S - EAST							
	126		898		107		162	BALANCE #5							
11+200				11+560											
	41		220		312		784	19+970							
11+210				11+600			467		10	160					
	63		238		315		109	19+980							
11+220				11+640		1,166			16	233					
	264		565		2,532		38	19+990		292					
11+240				11+680				20+000							
	900		950		2,353		39		0	689					
11+280				11+720				20+020							
	1,731		696		1,445		39		0	807					
11+320		262	286	11+760				20+040							
	3,779				1,182		39		60	877					
11+360		297	21	11+800				20+060							
	1,404				1,077		39		10	997					
11+375				11+840				20+100							
					981		39		8	161					
TOTALS	8,610		6,935		586		49	20+120		63					
				11+920				20+140							
				11+960											
				TOTALS	26,692	1,463	2,281	TOTALS	195	4,279					



CONSTRUCTION R/L



CONSTRUCTION R/L

R/W @ 43.123 m

11+280

R/W

11+240

r/w

11+220

R/W

30 25 20 15 10 5 0 5 10 15 20 25 30 35 40

2' 2

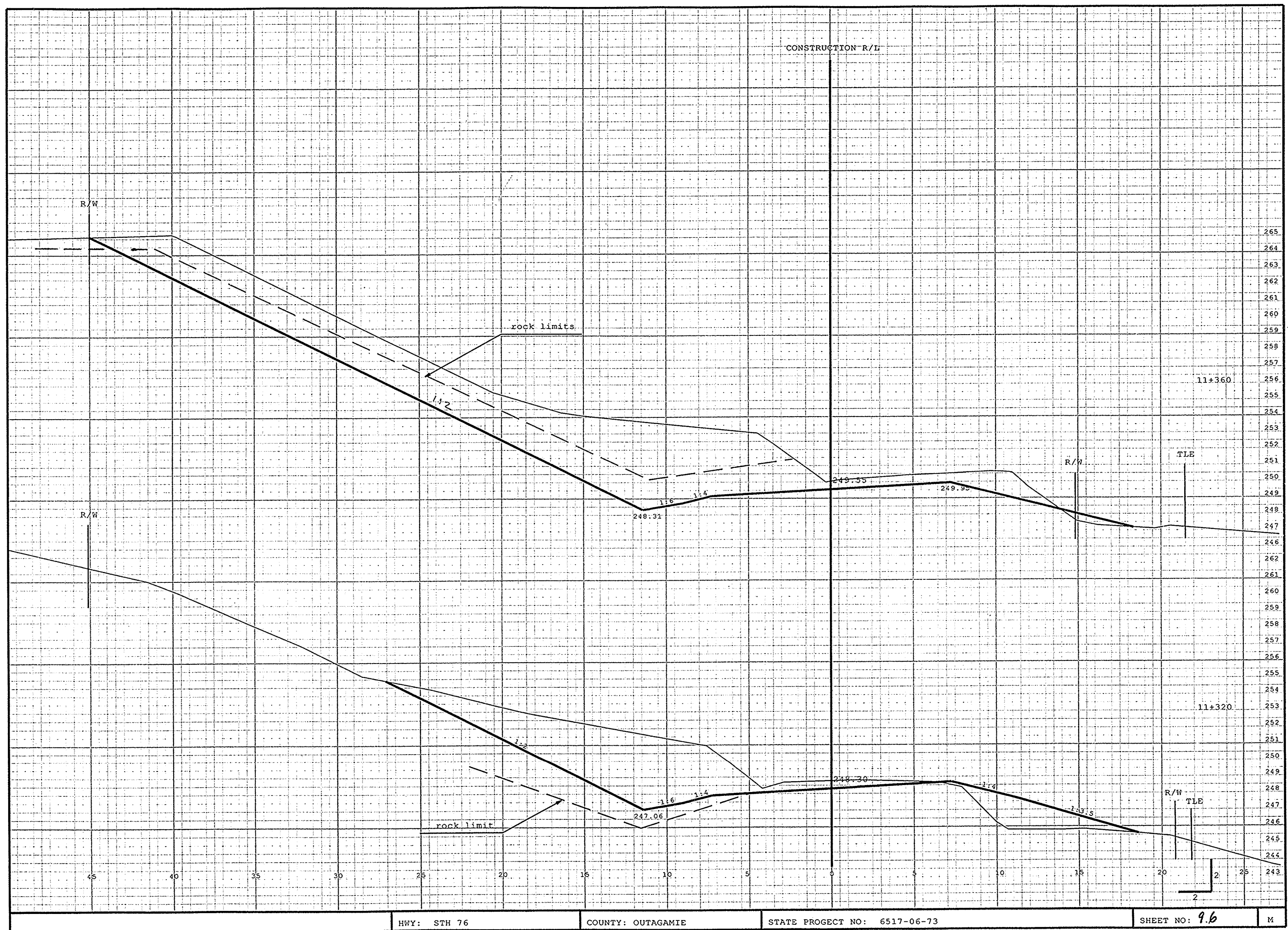
HWY: STH 76

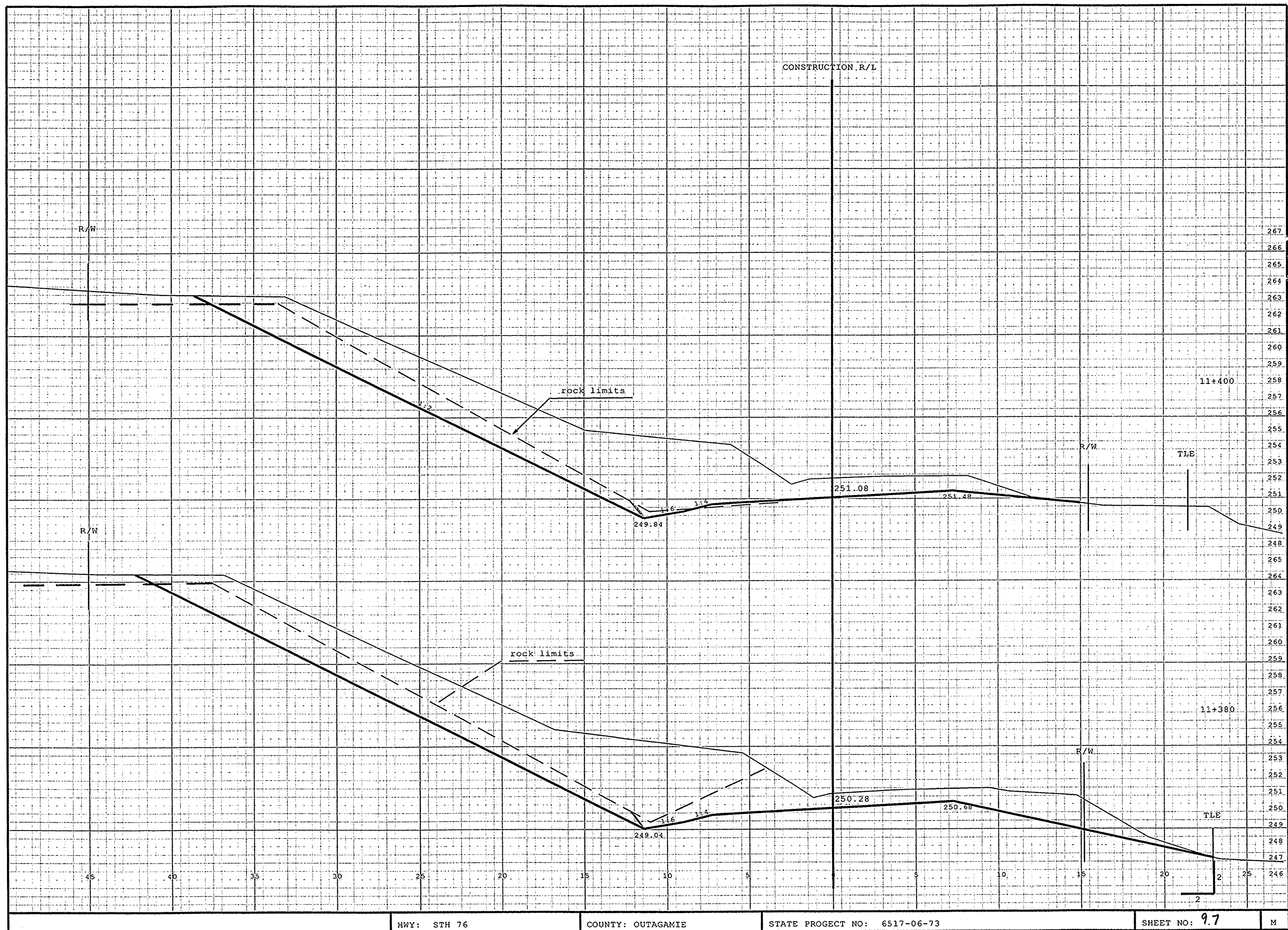
COUNTY: OUTAGAMIE

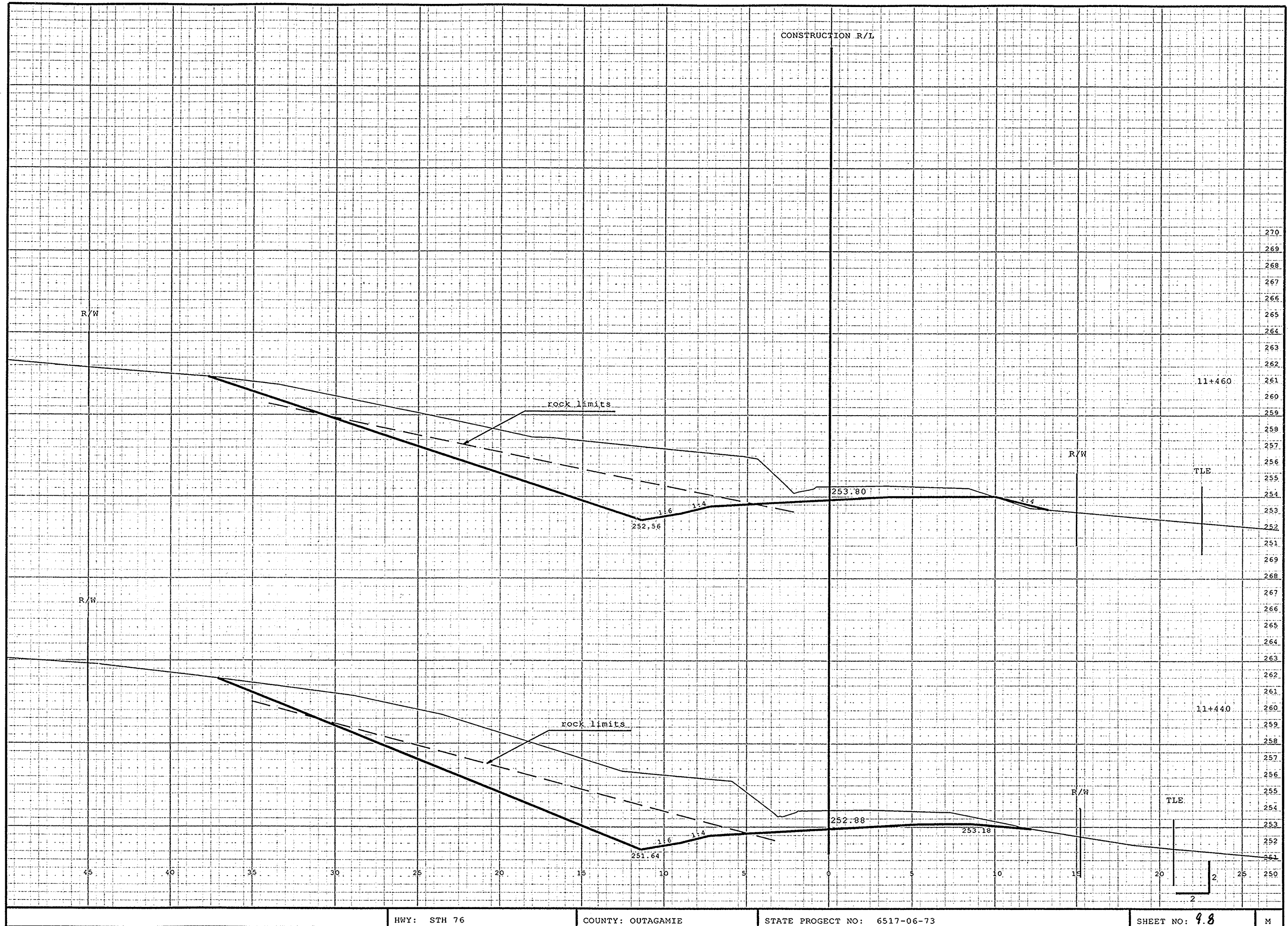
STATE PROGECT NO: 6517-06-73

SHEET NO: 95

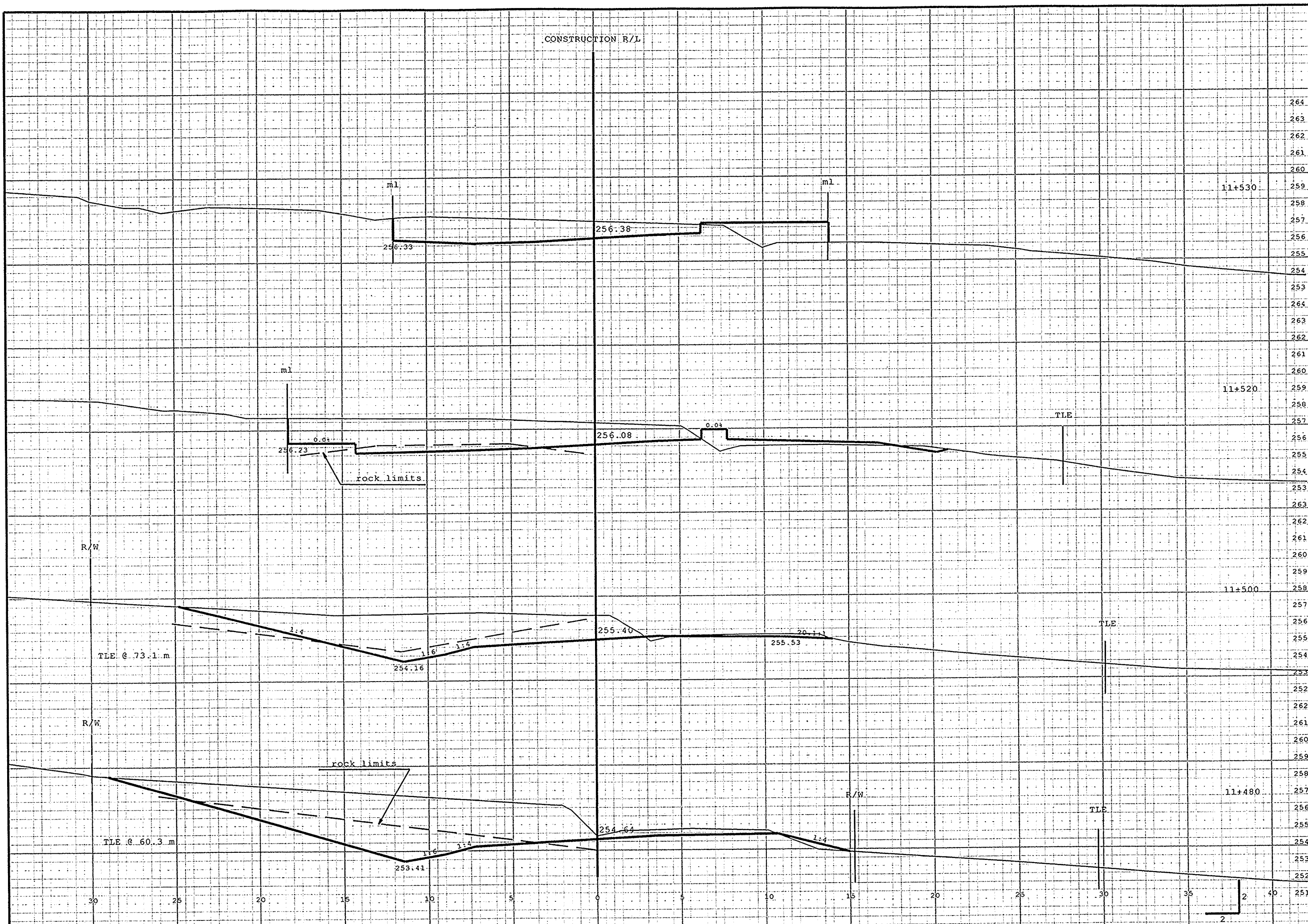
M







CONSTRUCTION R/L



CONSTRUCTION R/L

R/W

tle

11+640

TLE

R/W

11+600

TLE

R/W

11+560

ml

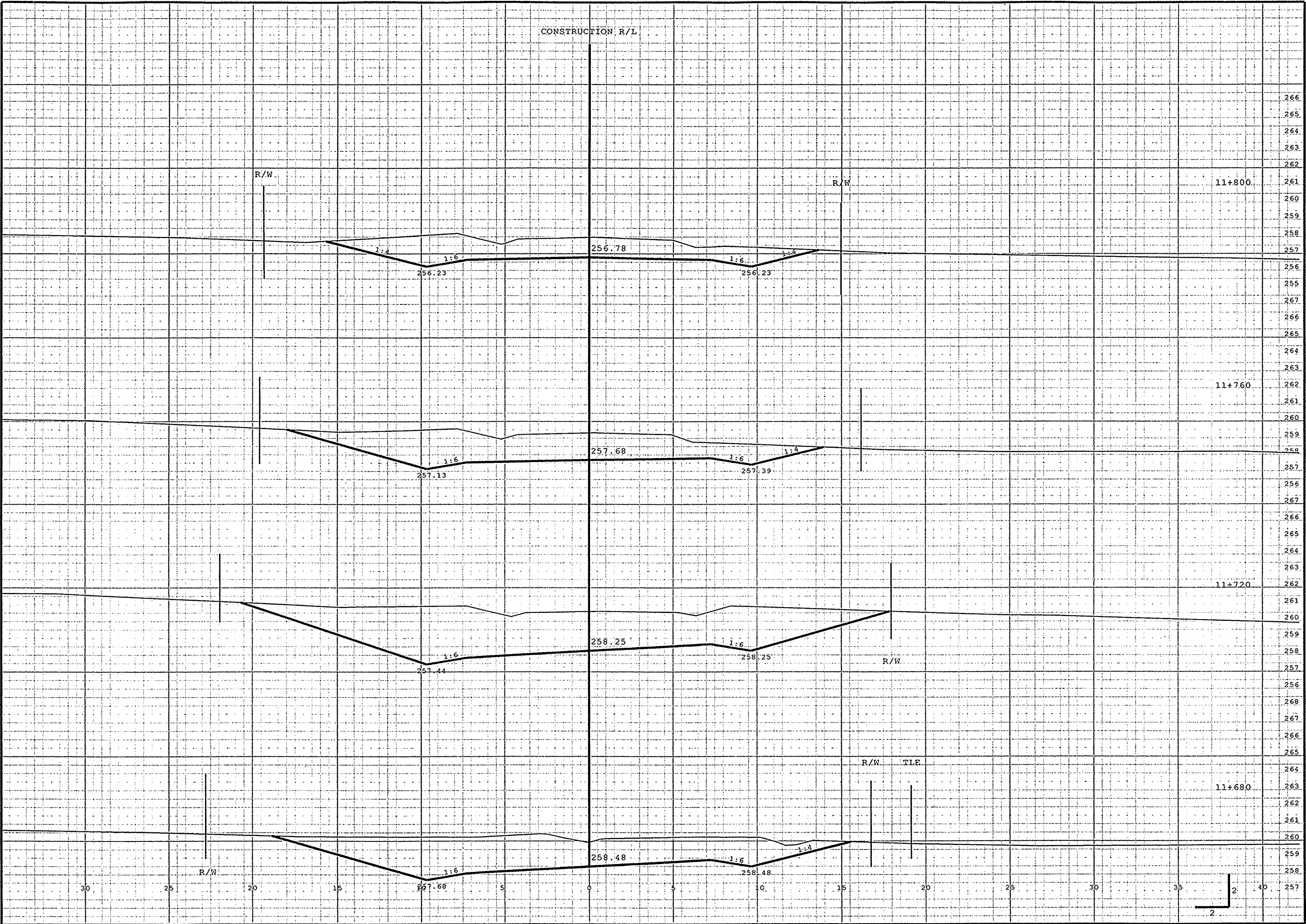
TLE

R/W

ml

11+550

30 25 20 15 10 5 0 5 10 15 20 25 30 35 40



CONSTRUCTION R/L

R/W

R/W

11+960

11+920

11+880

11+840

R/W

R/W



HWY: STH 76

COUNTY: OUTAGAMIE

STATE PROJECT NO: 6517-06-73

SHEET NO: 9.12

M

CONSTRUCTION R/L

R/W

R/W

12+120

242.14

241.21

241.21

12+080

244.26

243.34

243.34

12+040

246.66

245.73

245.73

12+000

248.99

248.06

248.06

30

25

20

15

10

5

0

5

10

15

20

25

30

35

2

40

2

HWY: STH 76

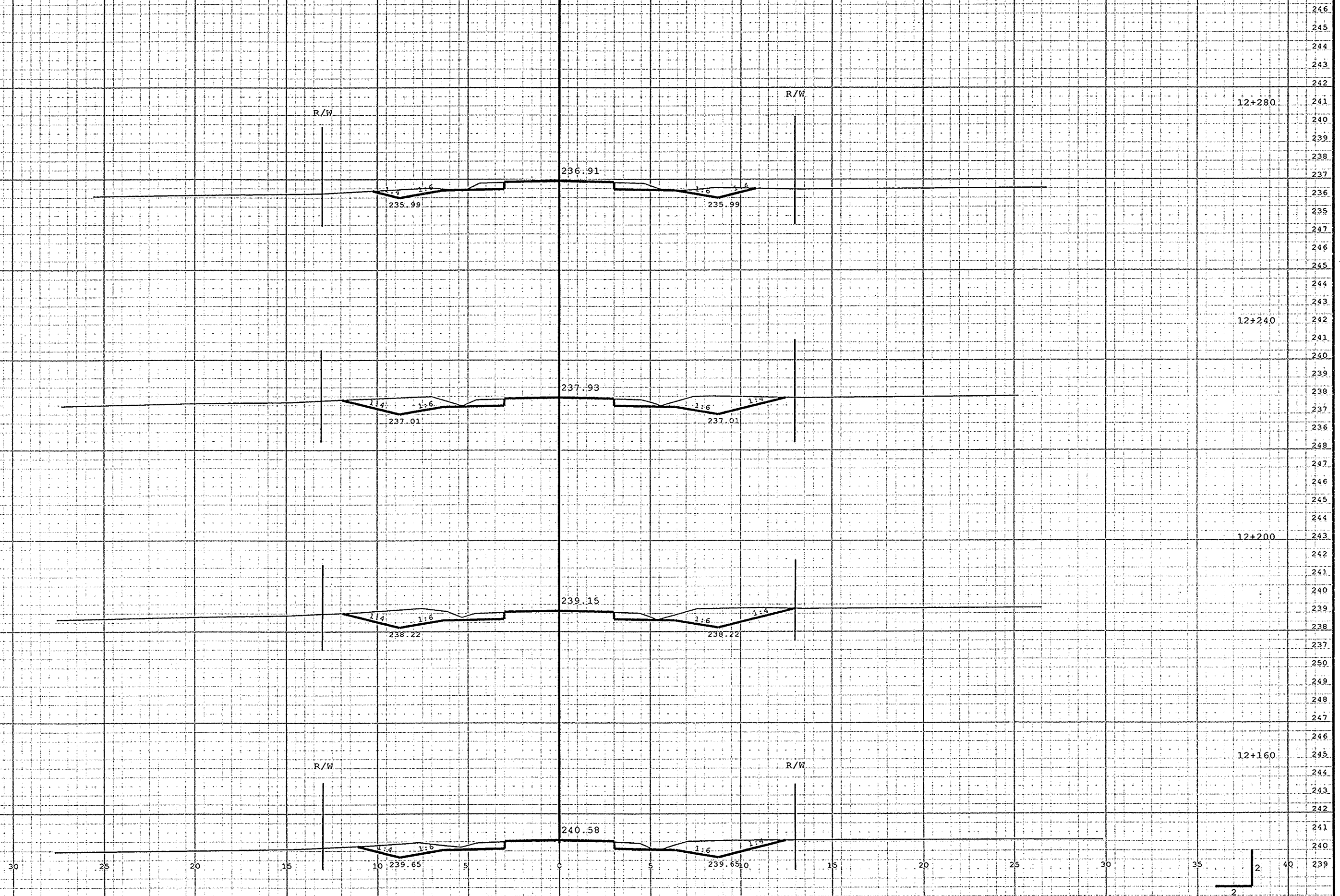
COUNTY: OUTAGAMIE

STATE PROJECT NO: 6517-06-73

SHEET NO: 9.13

M

CONSTRUCTION R/L



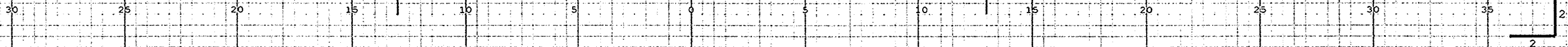
CONSTRUCTION R/L

R/W

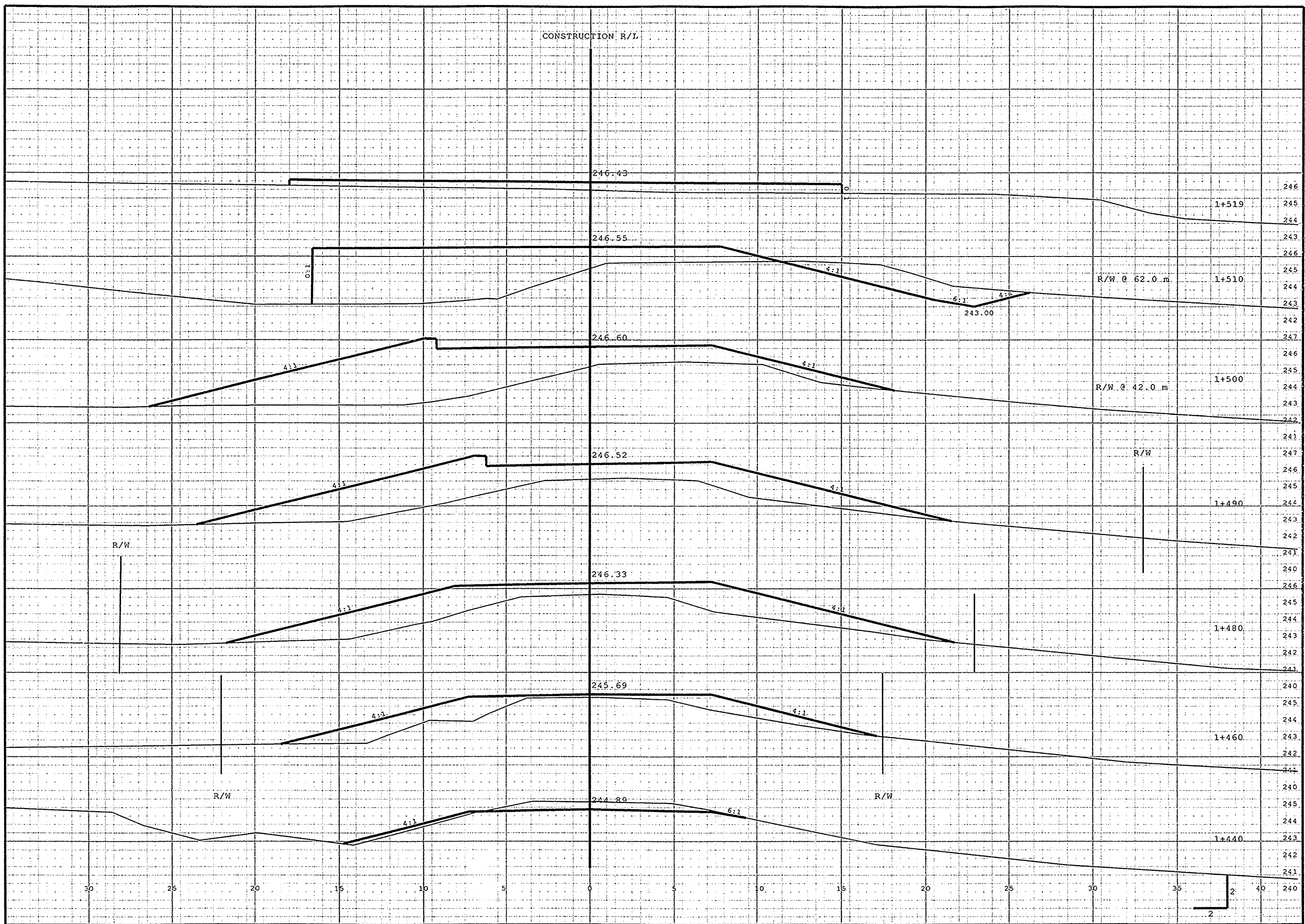
R/W

R/W

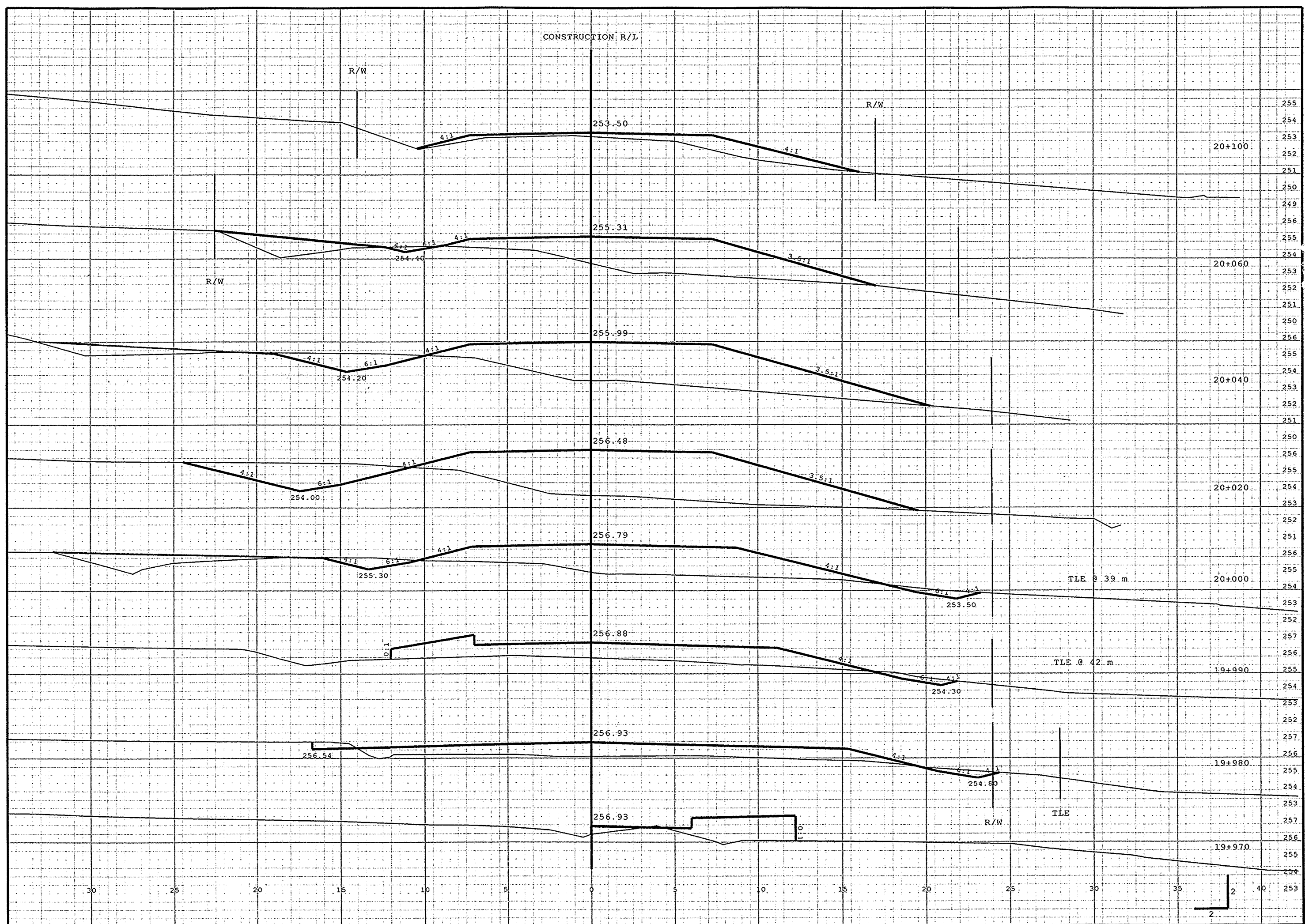
R/W



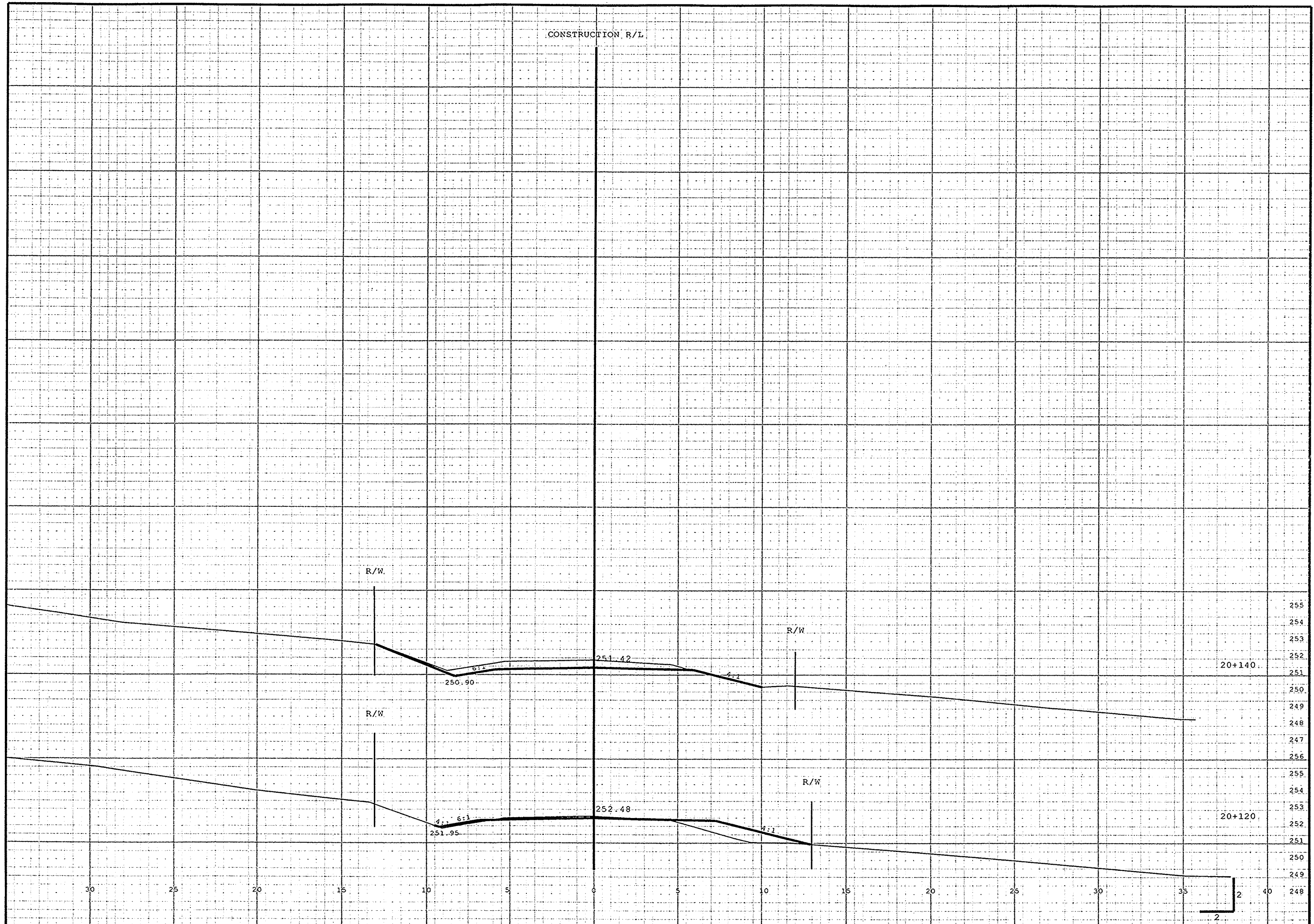
CONSTRUCTION R/L

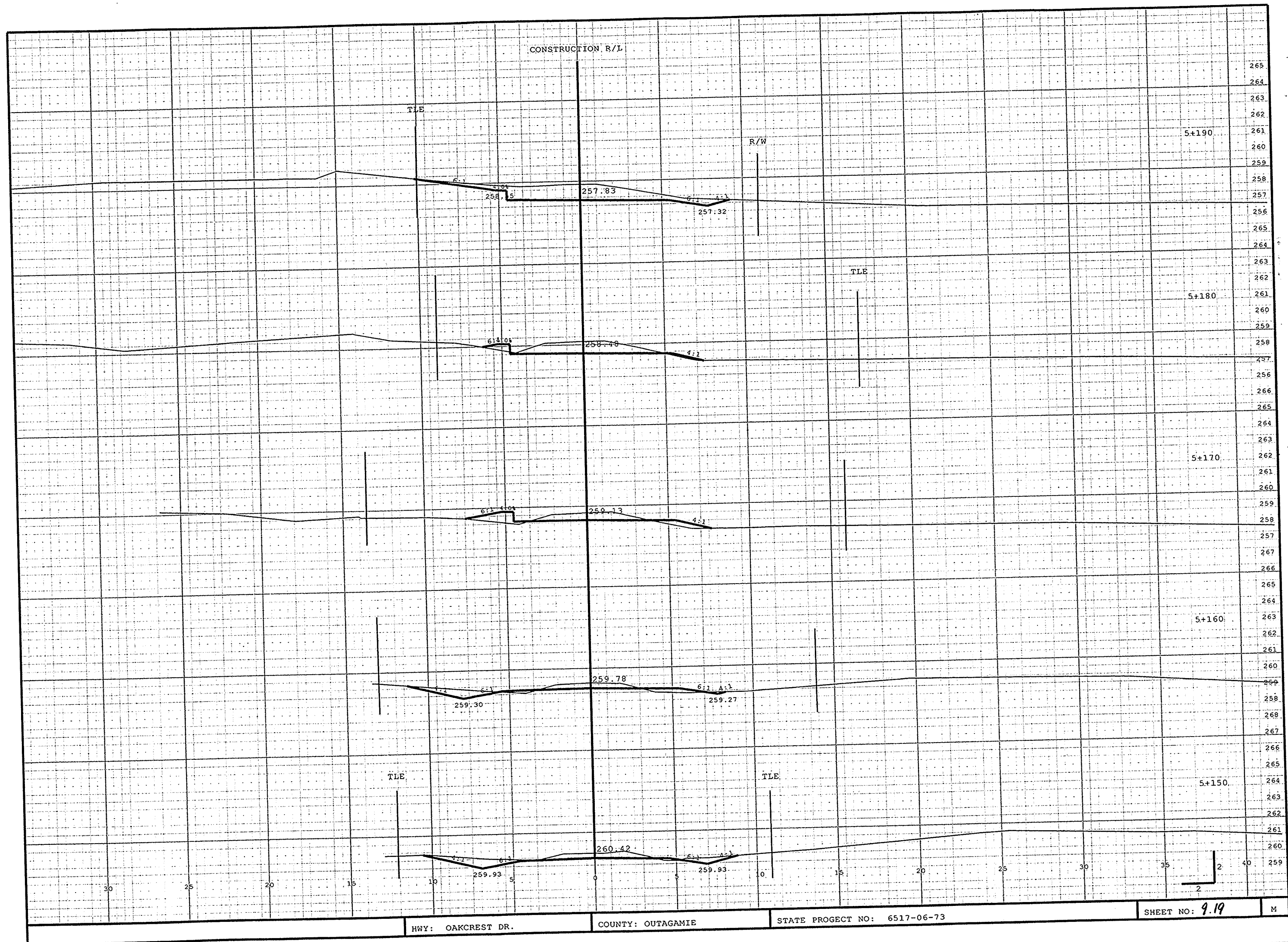


CONSTRUCTION R/L



CONSTRUCTION R/L





CONSTRUCTION R/L

TLE

TLE

5+210

5+200



INDEX OF SHEETS

Sheet No.	Title
Sheet No. 1	Typical Sections and Details
Sheet No. 2-2.5	Estimate of Quantities
Sheet No. 3	Miscellaneous Quantities
Sheet No. 3A	Right of Way Plot
Sheet No. 5-5.3	Plan and Profile
Sheet No. 6-6.5	Standard Detail Drawings
Sheet No. 7	Sign Plates
Sheet No. 8	Structure Plans
Sheet No. 9	Computer Earthwork Data
Sheet No. 10	Cross Sections

TOTAL SHEETS = 19

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
6517-06-71	STP 1998 (056)	1
6517-06-72		

CTH 0 - CTH A

CTH S INTERSECTIONS

STH 76

OUTAGAMIE COUNTY

CTH 0 - CTH A

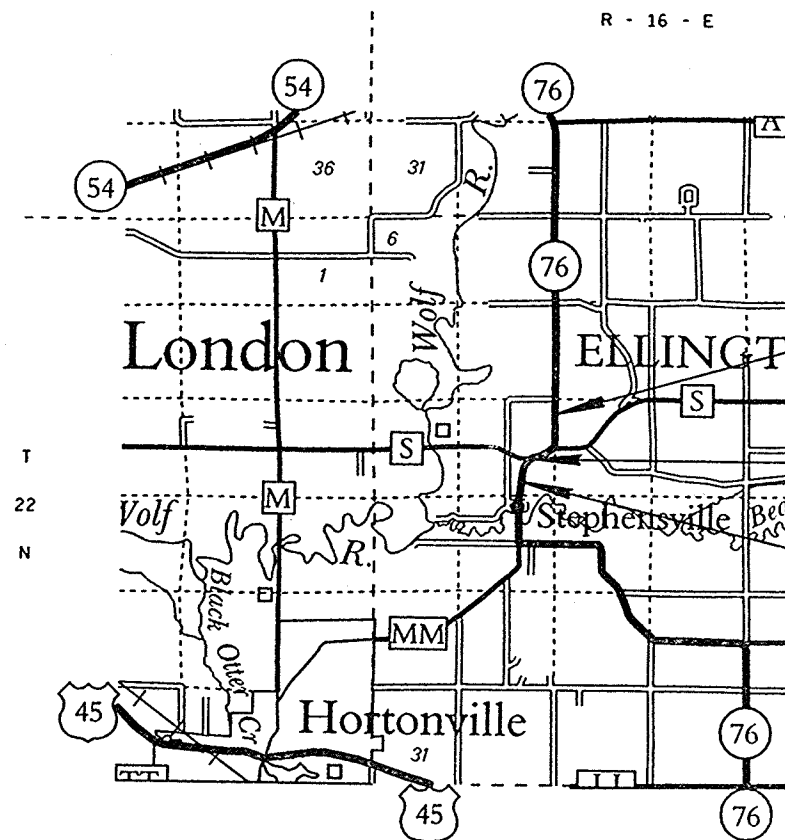
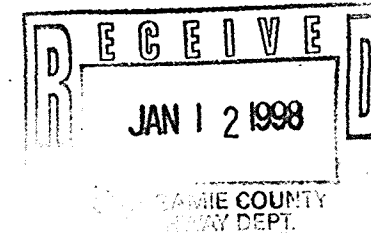
CTH S INTERSECTIONS

STH 76

OUTAGAMIE COUNTY

STATE PROJECT NUMBER
6517-06-71

STATE PROJECT NUMBER
6517-06-72



END PROJECTS 6517-06-71 & 72
STA. 12+375 STH 76-NORTH

EQUATION
STA. 11+018.000 STH 76 AH+
STA. 1+525.994 STH 76 BK

BEGIN PROJECTS 6517-06-71 & 72
STA. 1+440 STH 76-SOUTH
X= 712942.078
Y= 61623.059

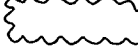
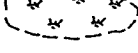
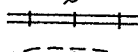
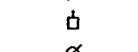
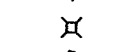
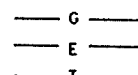
DESIGN DESIGNATION

A.D.T. 1997	2,175
A.D.T. 2007	3,225
D.H.V. 2017	435
D.	60/40
T.	12.2%
V.	80 km/h
ESALS	1,335,900

CONVENTIONAL SYMBOLS

COUNTY LINE	---
CORPORATE LIMITS	---
PROPERTY LINE	---
LOT LINE	---
LIMITED EASEMENT	---
EXISTING RIGHT OF WAY	---
PROPOSED OR NEW R/W LINE	---
SURVEY LINE	---
SLOPE INTERCEPT	---
ORIGINAL GROUND	---
MARSH OR ROCK PROFILE	---
EXISTING CULVERT	---
PROPOSED CULVERT (Box or Pipe)	---
CULVERT (Profile View)	---

COMBUSTIBLE FLUIDS	---
UNDERGROUND UTILITIES	---
GAS	---
ELECTRIC	---
TELEPHONE OR TELEGRAPH	---
SERVICE PEDESTAL	---
CABLE MARKER	---
POWER POLE	---
TELEPHONE POLE	---
RAILROAD	---
MARSH AREA	---
WOODED OR SHRUB AREA	---



LAYOUT
SCALE 0 2.5 km

NET LENGTH OF CENTERLINE = 1.443 km (6517-06-72)
NET LENGTH OF CENTERLINE = 0.000 km (6517-06-71)
TOTAL NET LENGTH OF CENTERLINE = 1.443

ALL COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COORDINATE SYSTEM SOUTH ZONE.

PAVING

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY
Surveyor DISTRICT 3
Designer P. F. O'CONNOR
District Examiner
District Supervisor J. C. LAMERS
Proj. Dev. Engineer N.R. CZECH
C.O. Examiner N.R. AFFELDT

APPROVED FOR DISTRICT OFFICE
DATE: 9/12/97 P.F. O'Connor (Signature)

AUTHORIZED FOR CENTRAL OFFICE DESIGN
DATE: 11/11/97 N.R. Czech (Signature)

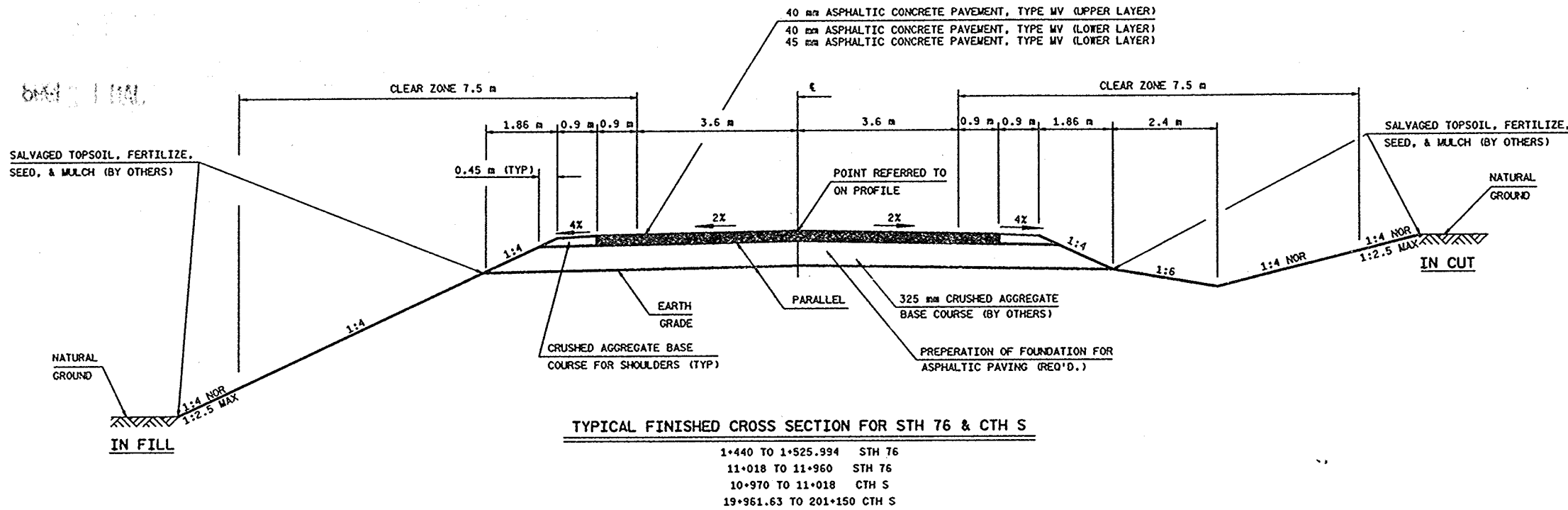
PLOT SCALE: 5280

PLOT NAME: 102

REV. DATE: 9-11-97

FILE NAME: D3_651706102.dgn

REV. DATE: 11-10-97
PLOT NAME: 200A
FILE NAME: 03 651706:200.DGN
ORIGINATOR: DISTRICT 3
LEVELS ON: 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63



TYPICAL FINISHED CROSS SECTION FOR STH 76 & CTH S

1+440 TO 1+525.994 STH 76
11+018 TO 11+960 STH 76
10+970 TO 11+018 CTH S
19+961.63 TO 201+150 CTH S

UTILITIES

DIGGER'S HOTLINE 1-800-242-8511 (TOLL FREE)

AMERITECH
ATTN: JOHN STUMPF 920-735-3250
221 W WASHINGTON STREET
4th FLOOR, OSPE
APPLETON, WISCONSIN 54911

WISCONSIN ELECTRIC POWER COMPANY
ATTN: JIM JACOBS 920-380-3445
FOX VALLEY DIVISION
P.O. BOX 1699
APPLETON, WISCONSIN 54913-1699

STEPHENSVILLE SANITARY DISTRICT
ATTN: DON TIMM 920-757-5886
W7887 MASON STREET
P.O. BOX 1699
HORTONVILLE, WISCONSIN 54944

TIME WARNER CABLE GENERAL NO.
ATTN: KATHY KEATING 920-749-1400
1001 KENNEDY AVENUE
P.O. BOX 145
KIMBERLY, WISCONSIN 54136

STANDARD DETAIL DRAWINGS (METRIC)

CONCRETE CURB, CONCRETE CURB AND GUTTER
AND PAVEMENT TIES ----- 801-12

AT-GRADE SIDE ROAD INTERSECTIONS,
TYPES "B1", "B2", "C" AND
"D" AND PASSING LANE ----- 9A1-10a

AT-GRADE SIDE ROAD INTERSECTIONS,
TYPE "A" ----- 9A1-10b

PAVEMENT MARKING (MAINLINE) ----- 15C8-7a

PAVEMENT MARKING (INTERSECTIONS) ----- 15C8-7b

PAVEMENT MARKING
(ISLANDS, STOP LINE & CROSS WALK) ----- 15C8-7d

GENERAL NOTES

WHEN THE QUANTITY OF CRUSHED AGGREGATE BASE COURSE IS MEASURED FOR PAYMENT BY THE MG, THE DEPTH OR THICKNESS AS SHOWN ON THE PLAN IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND UPON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER IN THE FIELD.

THE EXACT LOCATIONS AND LIMITS OF PRIVATE ENTRANCES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

CURB AND GUTTER RADII ARE SHOWN TO THE FRONT FACE OF CURB. CURB HEIGHTS AT THE END OF CURB AND GUTTER SHALL BE TAPERED FROM 0 mm TO 150 mm IN 2 m.

ALL DISTANCES AND STATIONING SHOWN ON THIS PLAN ARE GROUND VALUES. GRID VALUES ARE OBTAINED BY MULTIPLYING GROUND VALUES BY 0.999940.

BEARINGS ON THIS PLAN ARE GRID BEARINGS TO THE NEAREST SECOND.

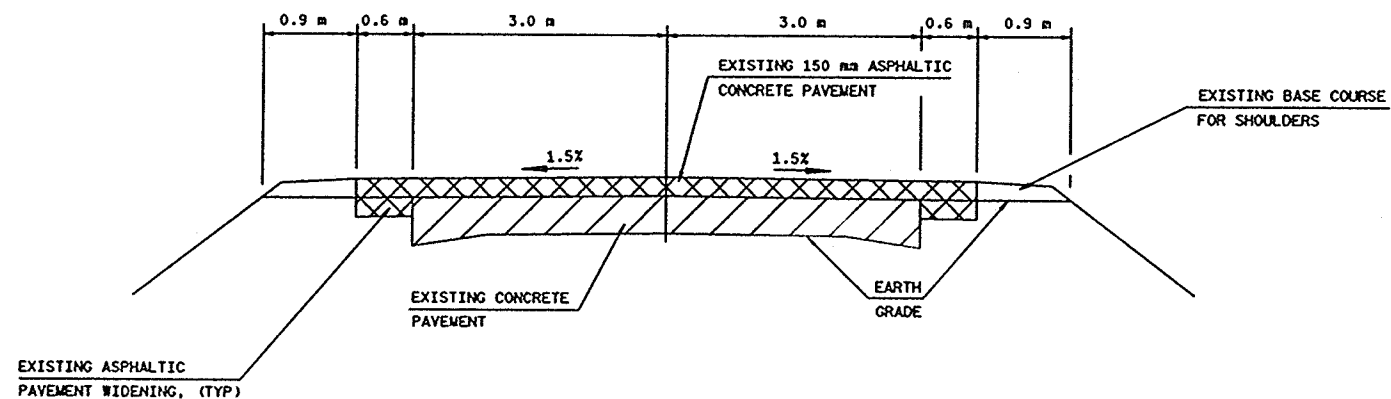
ALL ELEVATIONS ON THIS PROJECT ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (N.G.V.D.).

LIMITED EASEMENTS FOR P.E. CONSTRUCTION HAVE BEEN OBTAINED AND THESE RIGHTS HAVE BEEN EXTENDED TO THE CONTRACTOR.

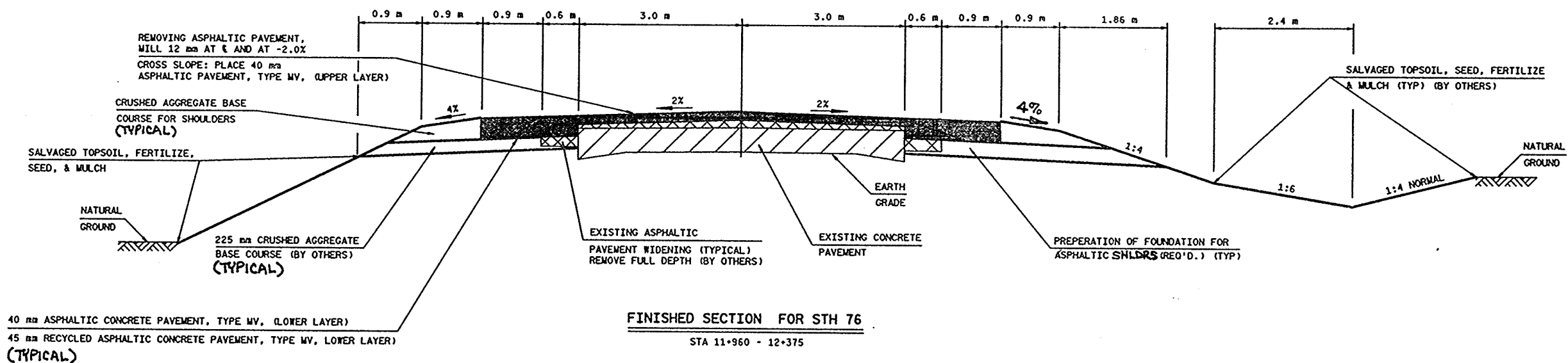
THE LOCATIONS OF EXISTING AND PROPOSED UTILITY FACILITIES AS SHOWN ON THE PLAN ARE APPROXIMATE. THERE MAY BE OTHER UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES SHOWN ON THE PLAN ARE APPROXIMATE AND SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

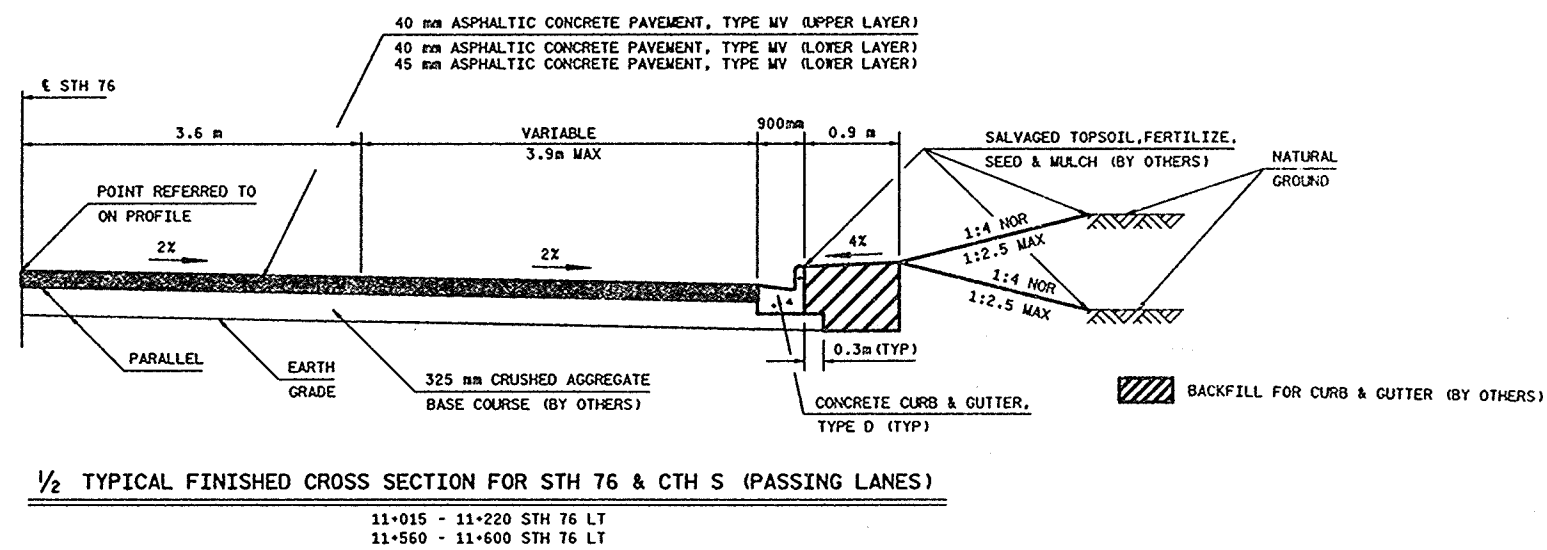
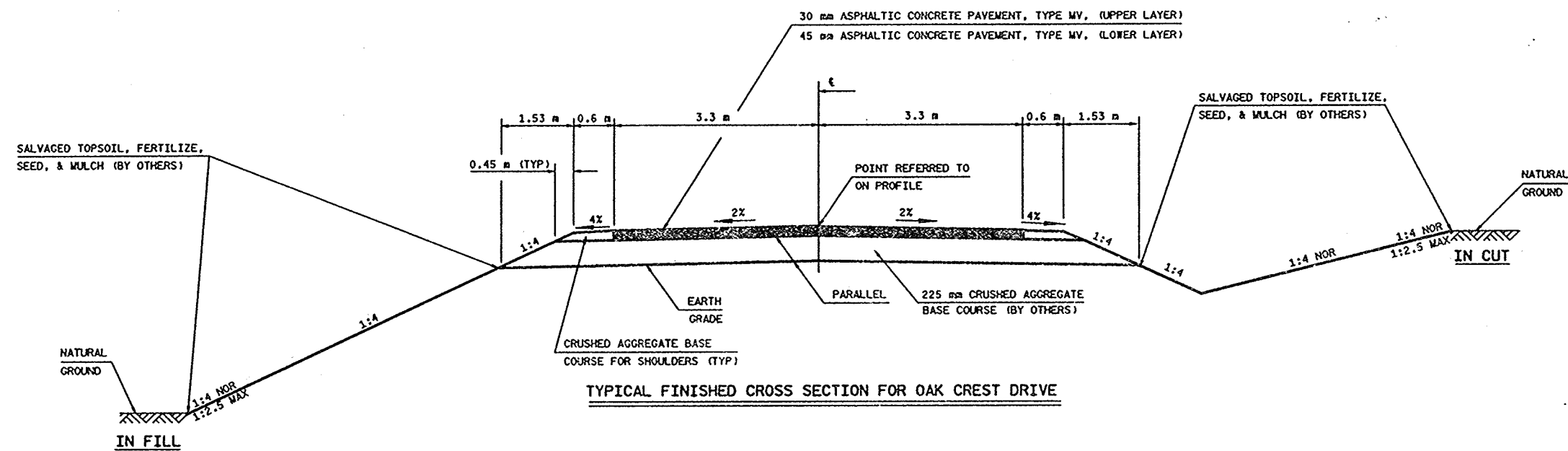
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LEVELS ON - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63
REV. DATE: 11-10-97
PLOT NAME: 200C
PLOT SCALE: 5

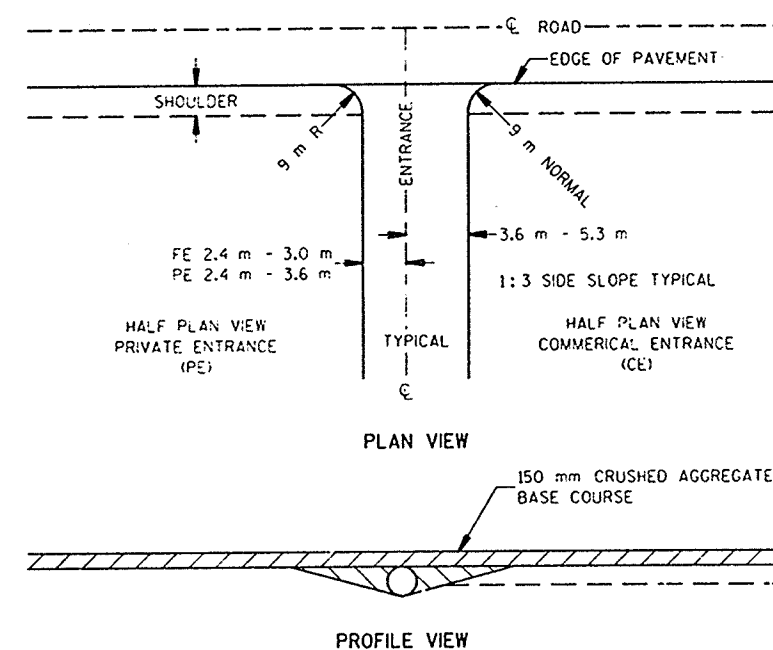


EXISTING CROSS SECTION FOR STH 76

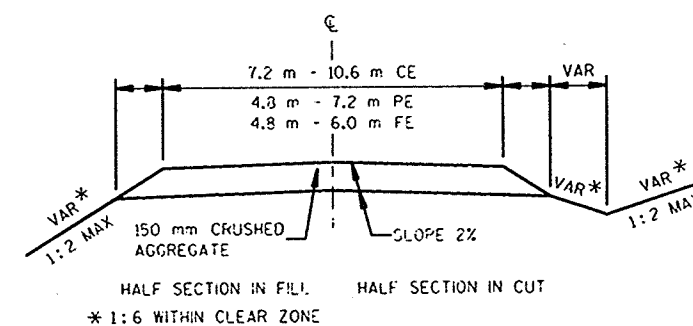


FINISHED SECTION FOR STH 76

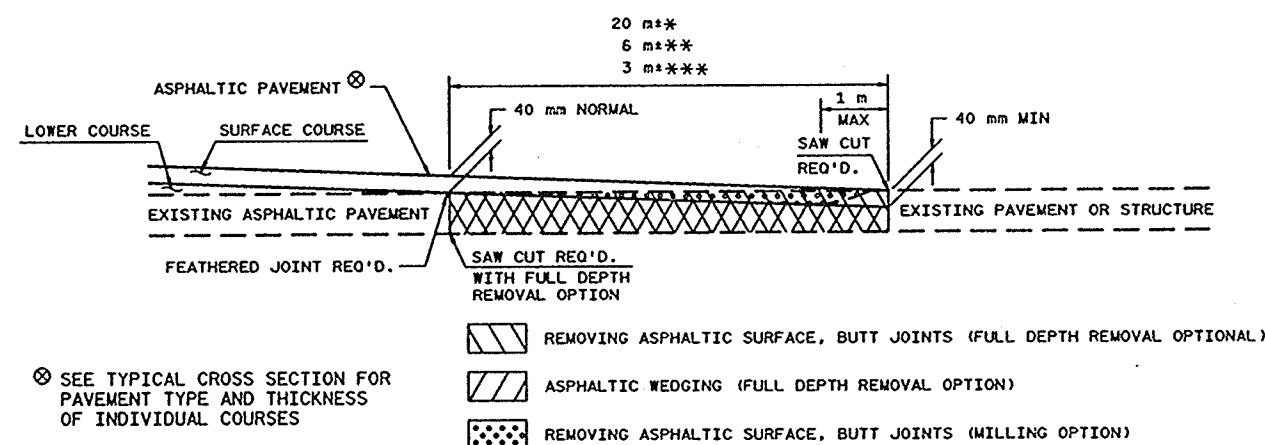




RURAL DRIVEWAY DETAIL



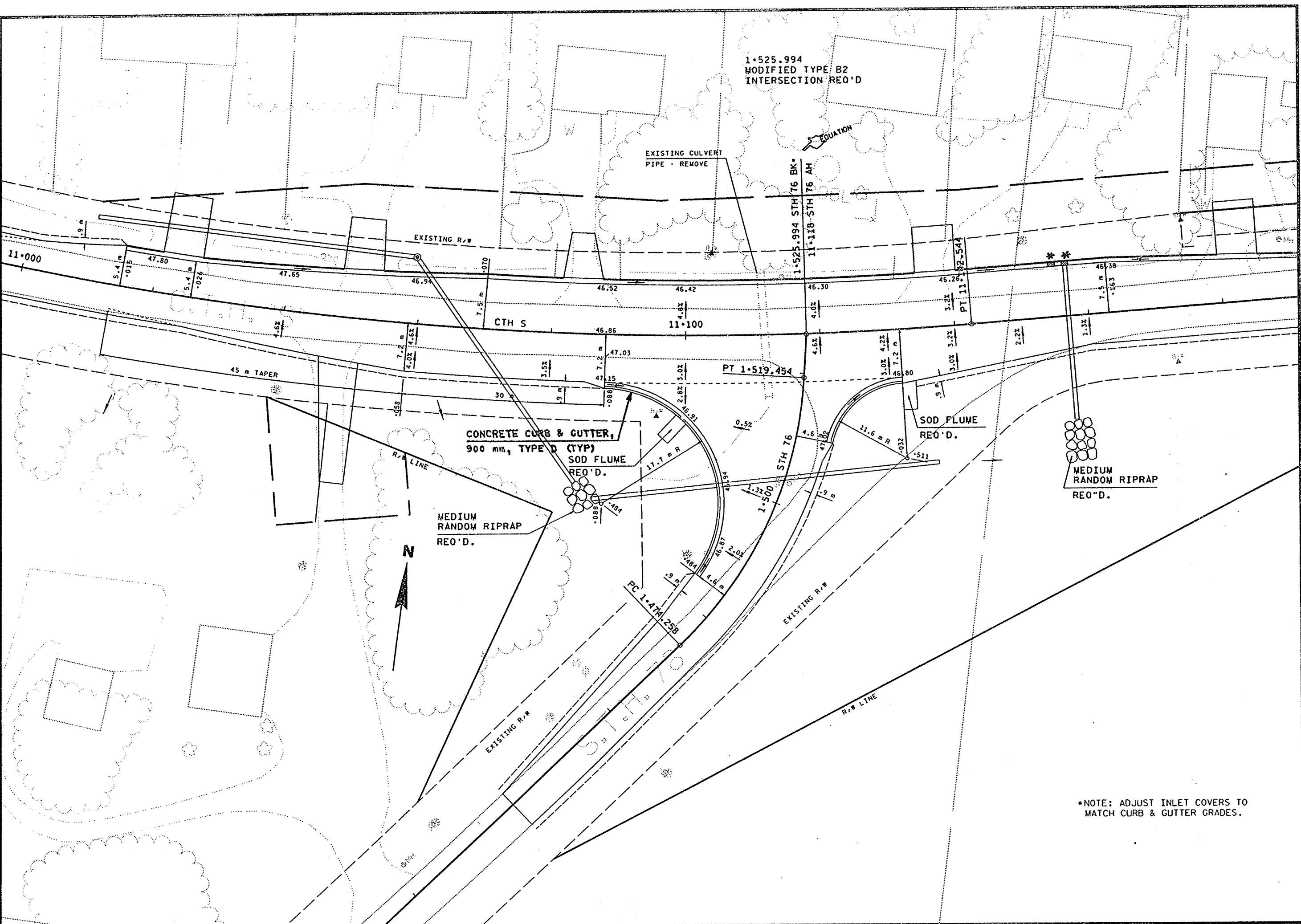
TYPICAL SECTION FOR PRIVATE ENTRANCES



BUTT JOINT DETAIL FOR MILLED ASPHALTIC PAVEMENTS

* MAINLINE
** SIDEROADS
*** PRIVATE ENTRANCES

LEVELS ON 11+000 11+020 11+040 11+060 11+080 11+100 11+120 11+140 11+160 11+180 11+200 11+220 11+240 11+260 11+280 11+300 11+320 11+340 11+360 11+380 11+400 11+420 11+440 11+460 11+480 11+500 11+520 11+540 11+560 11+580 11+600 11+620 11+640 11+660 11+680 11+700 11+720 11+740 11+760 11+780 11+800 11+820 11+840 11+860 11+880 11+900 11+920 11+940 11+960 11+980 12+000



*NOTE: ADJUST INLET COVERS TO
MATCH CURB & GUTTER GRADES.

DATE 11NOV97

ESTIMATE OF QUANTITIES

PAGE: 1

SHEET 3.0

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	6517-06-71 QUANTITY	6517-06-72 QUANTITY
0010	20419	REMOVING ASPHALTIC SURFACE, BUTT JOINTS	M2	7.50		7.50
0020	20421	REMOVING ASPHALTIC SURFACE, MILLING	MG	5.00		5.00
0030	21102	PREPARATION OF FOUNDATION FOR ASPHALTIC PAVING, PROJECT 6517-06-72	LS	1.00		1.00
0040	21131	PREPARATION OF FOUNDATION FOR ASPHALTIC SHOULDERS	M	830.00		830.00
0050	21302	FINISHING ROADWAY, PROJECT 6517-06-72	LS	1.00		1.00
0060	30404	CRUSHED AGGREGATE BASE COURSE	MG	1,220.00		1,220.00
0070	30413	PRODUCING AND STOCKPILING CRUSHED AGGREGATE BASE COURSE	MG	16,700.00		16,700.00
0080	40204	ASPHALTIC MATERIAL FOR TACK COAT	L	4,160.00		4,160.00
0090	40301	QUALITY MANAGEMENT PROGRAM, ASPHALTIC MIXTURE	MG	5,250.00		5,250.00
0100	40501	ASPHALTIC MATERIAL FOR PLANT MIXES	MG	290.00	290.00	
0110	40713	ASPHALTIC CONCRETE PAVEMENT, TYPE MV	MG	5,250.00		5,250.00
0120	41104	ASPHALTIC SURFACE, SAFETY ISLANDS	MG	5.00		5.00
0130	41105	ASPHALTIC SURFACE, DRIVEWAYS AND FIELD ENTRANCES	MG	45.00		45.00
0140	60170	CONCRETE CURB AND GUTTER, 900 MM, TYPE D	M	515.00	515.00	
0150	61183	ADJUSTING INLET COVERS	EACH	5.00		5.00
0160	61802	MAINTENANCE AND REPAIR OF HAUL ROADS, PROJECT 6517-06-72	LS	1.00		1.00
0170	61910	MOBILIZATION	LS	1.00	0.07	0.93
0180	62401	WATER	KL	95.00		95.00
0190	64602	PAVEMENT MARKING, 100 MM, EPOXY	M	5,392.80		5,392.80
0200	64618	PAVEMENT MARKING, CHANNELIZING, 200 MM, EPOXY	M	81.00		81.00
0210	64710	PAVEMENT MARKING, STOP LINE, 450 MM, EPOXY	M	25.00		25.00
0220	64790	PAVEMENT MARKING, ISLAND NOSE, EPOXY	EACH	6.00		6.00
0230	66501	SAWING EXISTING PAVEMENT	M	36.00		36.00
0240	66502	SAWING CONCRETE PAVEMENT, FULL DEPTH	M	15.00		15.00
0250	90001	MISC 90001A CONSTRUCTION STAKING, CURB AND AND GUTTER, SPECIAL	M	500.00		500.00
0260	90001	MISC 90001B CONSTRUCTION STAKING, CRUSHED AGGREGATE BASE COURSE, SPECIAL	M	1,745.00		1,745.00
0270	90365	QUALITY MANAGEMENT PROGRAM, BASE COURSES	MG	17,920.00		17,920.00

PLOT NAME: D300A

59.

54.

REV. DATE: 11-10-97

22.

ORIGINATOR: O'CONNOR
LEVELS ON -

SAWING SUMMARY			
STATION	LOCATION	SAWING CONCRETE PAVEMENT, FULL DEPTH m	SAWING EXISTING PAVEMENT m
PROJECT 6517-6-72			
10+970	CTH S WEST		7.5
11+023	CTH S WEST LT.		4.0
11+052	CTH S WEST LT.		4.0
11+085	CTH S WEST LT.		3.5
1+440	STH 76 SOUTH	7.5	
11+138	CTH S WEST LT.		4.0
11+183	CTH S WEST LT.		4.0
12+375	STH 76	7.5	
20+375	CTH S EAST		5.0
5+150	OAKWOOD DRIVE		4.0
TOTALS		15.0	36.0

CONCRETE CURB & GUTTER, SUMMARY			
STATION TO STATION	LOCATION	900mm m TYPE D	REMARKS
PROJECT 6517-6-71			
11+015 - 11+210	STH 76 LT.	195	
11+090 - 1+485	STH 76 RT.	40	
1+510 - 11+135	STH 76 RT.	15	
11+525 - 5+195	STH 76 LT.	25	
5+180 - 11+600	STH 76 LT.	95	
19+998 - 11+570	STH 76 RT.	35	
11+510 - 11+530	STH 76 RT.	70	ISLAND
11+545 - 11+560	STH 76 RT.	40	ISLAND
TOTAL		515	

CRUSHED AGGREGATE BASE COURSE SUMMARY					
STATION TO STATION	LOCATION	PRODUCING AND STOCKPILING*	CR. AGG. BASE CRSE.		QUALITY MANAGEMENT PROGRAM
PROJECT 6517-6-72		C.A.B.C. (ROADWAY) Mg	SHOULDER Mg	ROADWAY Mg	PROGRAM Mg
1+440 - 1+520	STH 76 SOUTH	950	40	30	1 020
11+160 - 11+460	STH 76	3 050	185	20	3 255
11+460 - 11+600	STH 76	1 900	45	40	1 985
11+600 - 11+960	STH 76	3 700	100	20	3 820
11+960 - 12+375	STH 76	2 500	270	10	2 780
10+970 - 11+160	CTH S WEST	1 950	60	45	2 055
19+970 - 20+150	CTH S EAST	2 100	105	35	2 240
5+150 - 5+210	OAKCREST DRIVE	350	15	10	375
	DRIVEWAYS	200		100	300
	UNDISTRIBUTED			90	90
TOTALS		16 700	820	400	17 920
1220					
* MATERIAL TO BE HAULED AND PLACED BY OTHERS.					

CONSTRUCTION STAKING, CURB & GUTTER, SPECIAL			
STATION TO STATION	LOCATION	CURB & GUTTER m	REMARKS
PROJECT 6517-6-72			
11+015 - 11+210	STH 75 LT.	196	
11+090 - 1+485	STH 76 RT.	39	
1+510 - 11+135	STH 76 RT.	16	
11+525 - 5+195	STH 75 LT.	25	
5+180 - 11+600	STH 75 LT.	93	
19+998 - 11+570	STH 76 RT.	33	
11+510 - 11+530	STH 76 RT.	65	ISLAND
11+545 - 11+560	STH 76 RT.	33	ISLAND
TOTAL		500	

PREPARATION OF FOUNDATION FOR ASPHALTIC SHOULDERS		
STATION TO STATION	LOCATION	m
PROJECT 6517-6-72		
11+960 - 12+375	LT	415
11+960 - 12+375	RT	415
TOTAL		830

REMOVING ASPHALTIC SURFACE, MILLING			
STATION TO STATION	LOCATION	Mg	REMARKS
PROJECT 6517-6-72			
11+960 - 12+375	STH 76	5	MILL TO CROWN

CONSTRUCTION STAKING, CRUSHED AGGREGATE BASE COURSE, SPECIAL		
STATION TO STATION	LOCATION	m
PROJECT 6517-6-72		
1+400 - 1+510	STH 76 SOUTH	110
11+118 - 11+960	STH 76	842
11+960 - 12+375	STH 76	405
10+970 - 11+118	CTH S WEST	148
19+970 - 20+150	CTH S EAST	180
5+150 - 5+210	OAKCREST DRIVE	60
TOTAL		1745

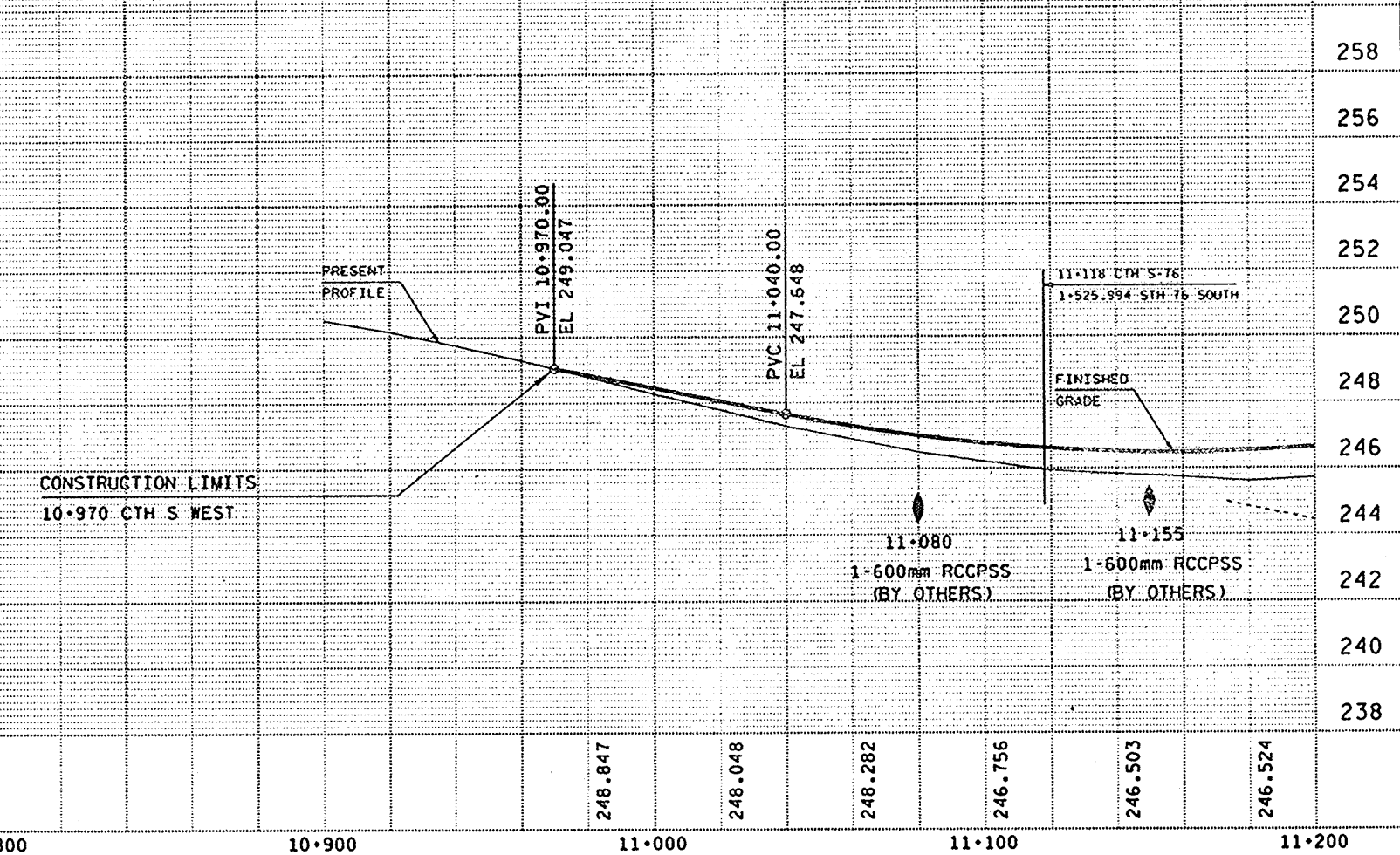
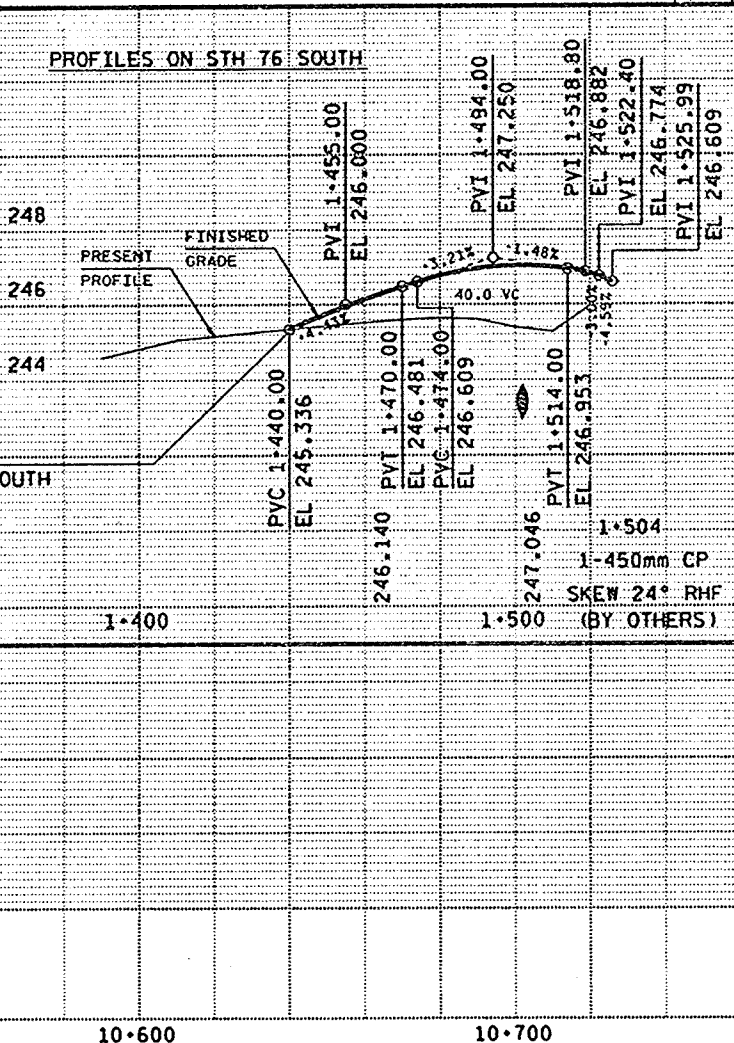
REMOVING ASPHALTIC SURFACE, BUTT JOINTS		
STATION	LOCATION	m2
PROJECT 6517-6-72		
12+375	STH 76	7.5

ASPHALTIC SURFACE		
STATION	PE'S & FE'S Mg	SAFETY ISLAND Mg
PROJECT 6517-6-72		
UNDISTRIBUTED	45	5

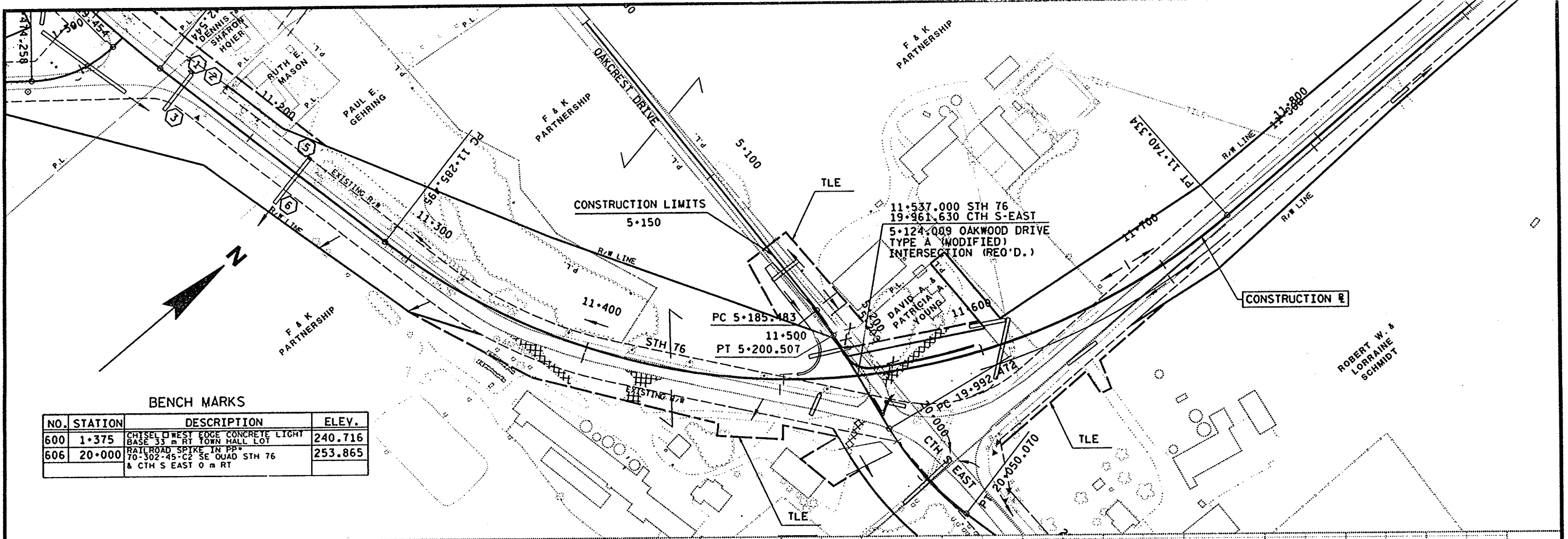
<u>INLETS AND ADJUSTING INLET COVERS</u>						
STRUC. NO.	STATION	LOCATION	ADJUSTING INLET COVERS (TYPE H) EACH	GRATE	TOP OF COVER ELEVATION	TOP OF STRUCTURE ELEVATION
<u>PROJECT 6517-6-72</u>						
1	11+155	STH 76 LT. 7.8m	1	RIGHT	246.12	245.84
2	11+157	STH 76 LT. 7.8m	1	LEFT	246.12	245.83
7	5+210	OAKCREST DRIVE LT. 3.7m	1	LEFT	256.92	256.91
10	11+518	STH 76 LT. 12.5m	1	LEFT	256.38	256.10
12	19+980	CTH S EAST LT. 5m	1	RIGHT	257.29	257.01
TOTALS			5			
NOTE: COVERS SUPPLIED BY OTHERS						

ASPHALTIC SUMMARY				
STATION TO STATION	LOCATION	ASPHALTIC PAVEMENT TYPE MV Mg	ASPHALTIC MATERIAL FOR TACK COAT (0.113 L/m2) L	QUALITY MANAGEMENT PROGRAM, MIXTURE PLANT MIXES ** @ 5.5 % Mg
PROJECT 6517-6-72				
1+400 - 1+520	STH 76 SOUTH	670	505	37
11+160 - 11+440	STH 76	695	615	40
11+440 - 11+600	STH 76	735	550	40
11+600 - 11+960	STH 76	995	745	55
11+960 - 12+375	STH 76	580	565	30
10+970 - 11+160	CTH S WEST	710	530	40
19+980 - 20+150	CTH S EAST	640	480	35
5+100 - 5+210	OAKCREST DRIVE	225	170	13
TOTALS		5250	4160	290
** PROJECT 6517-6-71				
5250				

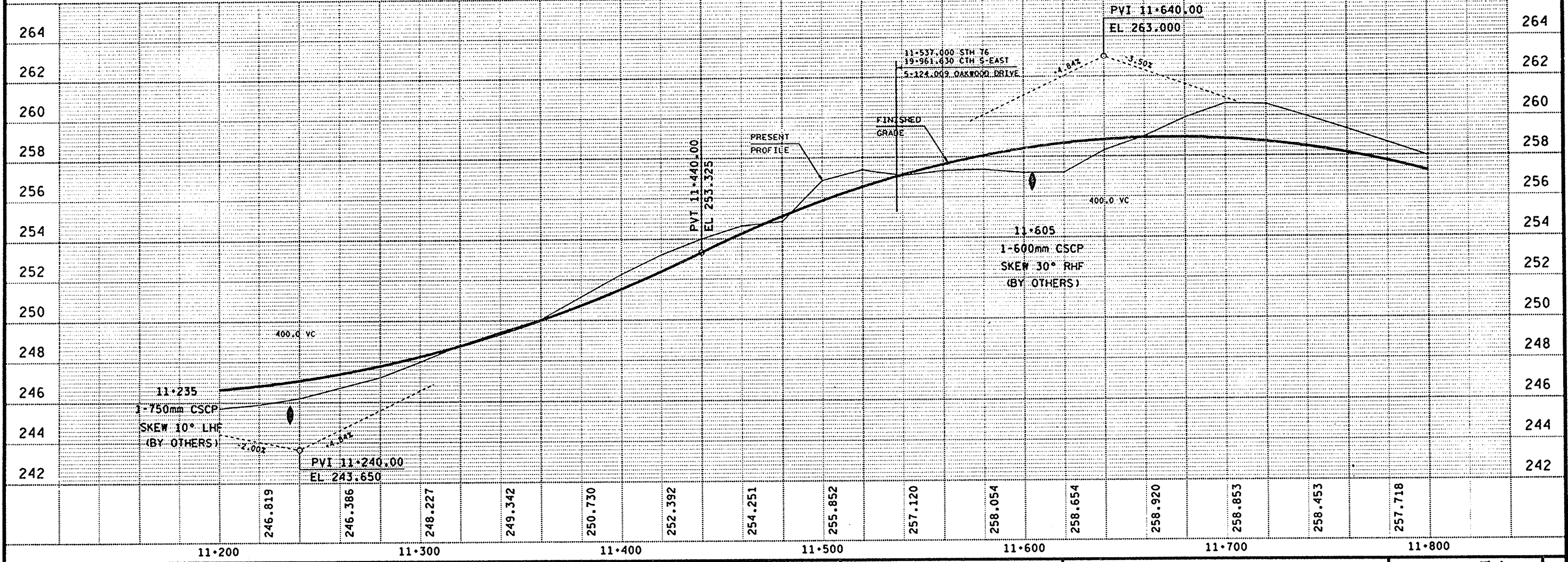
PAVEMENT MARKING, EPOXY								
STATION TO STATION	LOCATION	100 mm, YELLOW CENTERLINE		100 mm, WHITE		CHANNELIZING WHITE 200 mm	STOP LINE WHITE 450 mm	ISLAND NOSE EACH
		SOLID m	DASHED m	EDGE LINE SOLID m	LANE LINE DASHED m	m	m	
PROJECT 6517-6-72								
1+440 - 1+520	STH 76 SOUTH	160		116			6	
11+160 - 11+440	STH 76	340	27.5	510				
11+440 - 11+600	STH 76	280		170	4	45		
11+600 - 11+960	STH 76	720		720				
11+960 - 12+375	STH 76	400	53.8	830				
10+970 - 11+160	CTH S WEST		47.5	185	4	26		
19+970 - 20+150	CTH S WEST	360		345		10	9	6
5+150 - 5+210	OAKWOOD DRIVE	120					10	
TOTALS		2 380	128.8	2 876	8	81	25	6
5 392.8								



ORIGINATOR: District 3
LEVELS ON: 11.200, 11.300, 11.400, 11.500, 11.600, 11.700, 11.800, 11.900, 12.000, 12.100, 12.200, 12.300, 12.400, 12.500, 12.600, 12.700, 12.800, 12.900, 13.000, 13.100, 13.200, 13.300, 13.400, 13.500, 13.600, 13.700, 13.800, 13.900, 14.000, 14.100, 14.200, 14.300, 14.400, 14.500, 14.600, 14.700, 14.800, 14.900, 15.000, 15.100, 15.200, 15.300, 15.400, 15.500, 15.600, 15.700, 15.800, 15.900, 16.000, 16.100, 16.200, 16.300, 16.400, 16.500, 16.600, 16.700, 16.800, 16.900, 17.000, 17.100, 17.200, 17.300, 17.400, 17.500, 17.600, 17.700, 17.800, 17.900, 18.000, 18.100, 18.200, 18.300, 18.400, 18.500, 18.600, 18.700, 18.800, 18.900, 19.000, 19.100, 19.200, 19.300, 19.400, 19.500, 19.600, 19.700, 19.800, 19.900, 20.000
REV. DATE: 11-10-97
PLOT NAME: 651706.dgn
PLOT SCALE: 1:1000



BENCH MARKS		
NO.	STATION	DESCRIPTION
600	1+375	CHISEL WEST EDGE CONCRETE LIGHT BASE 33 m RT TOWN HALL LOT
606	20+000	RAILROAD SPIKE IN PP 70-302-45-C2 SE QUAD STH 76 & CTH S EAST 0 m RT
		ELEV.
		240.716
		253.865



BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
601	12+003	SPIRE IN POWER POLE #65-10347 30 m L	248.540
602	12+380	SPIRE IN PP SE QUADRANT STH 76 & CUMINGS RD 14 m RT	234.920

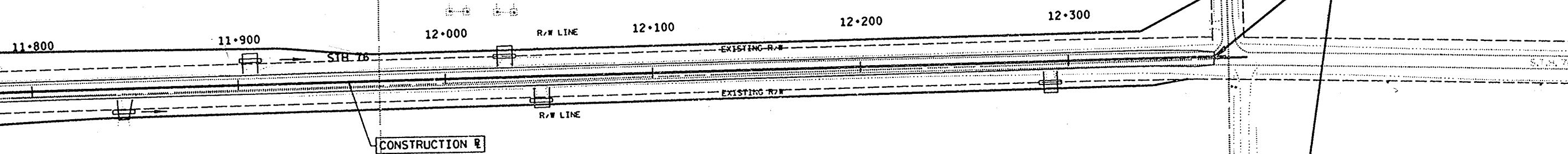
F & K
PARTNERSHIP



F & K
PARTNERSHIP

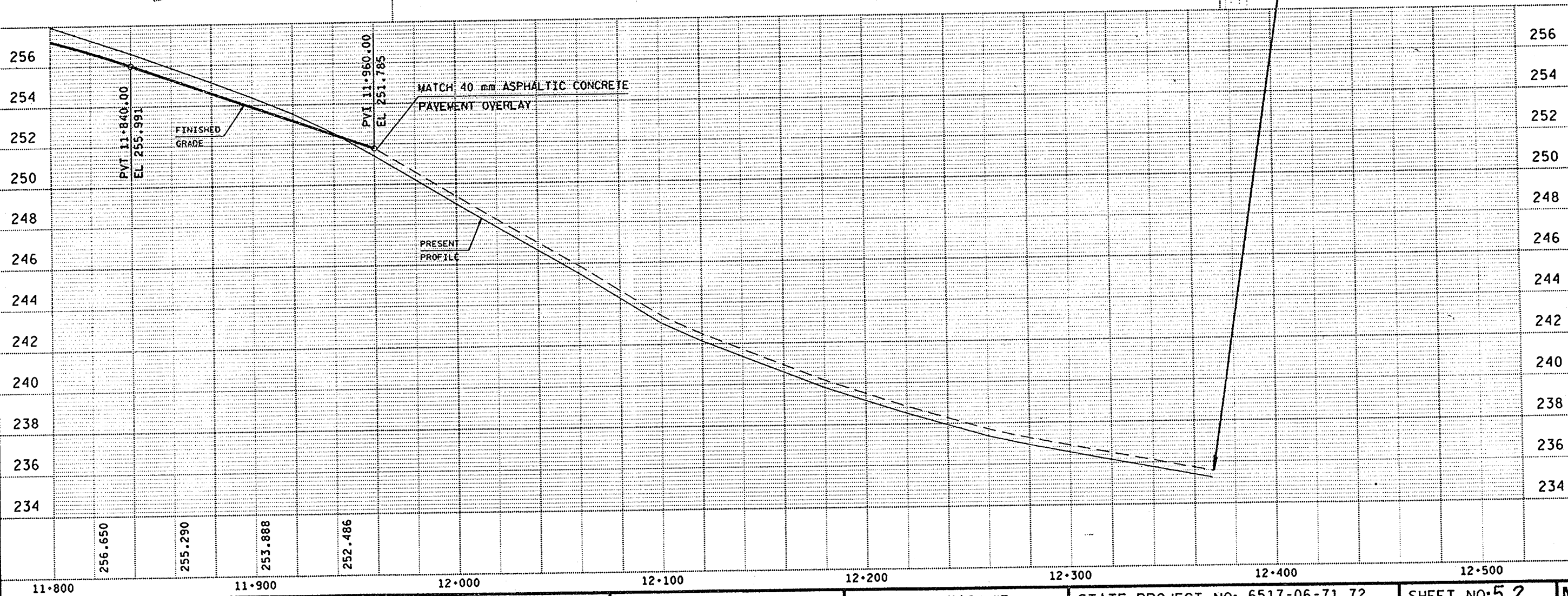
END PROJECT

12+375



ROBERT W. &
LORRAINE
SCHMIDT

ROBERT W. &
LORRAINE
SCHMIDT



SCALE: 1:1000

HWY: STH 76

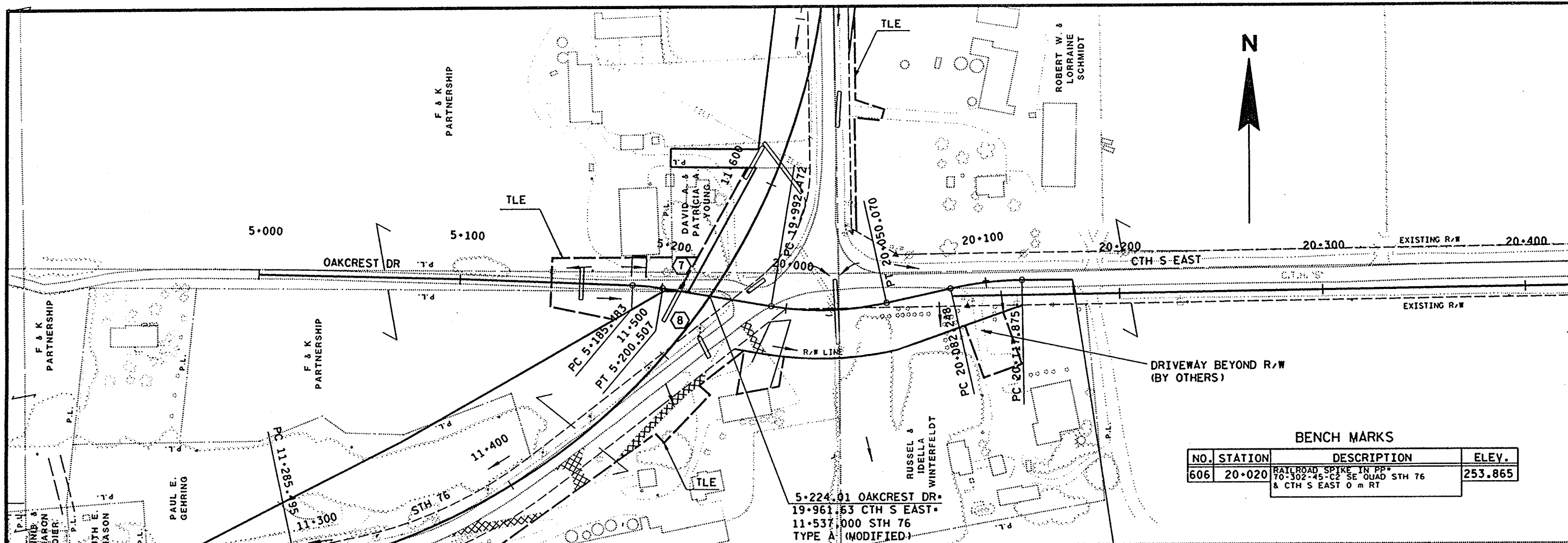
COUNTY: OUTAGAMIE

STATE PROJECT NO: 6517-06-71.72

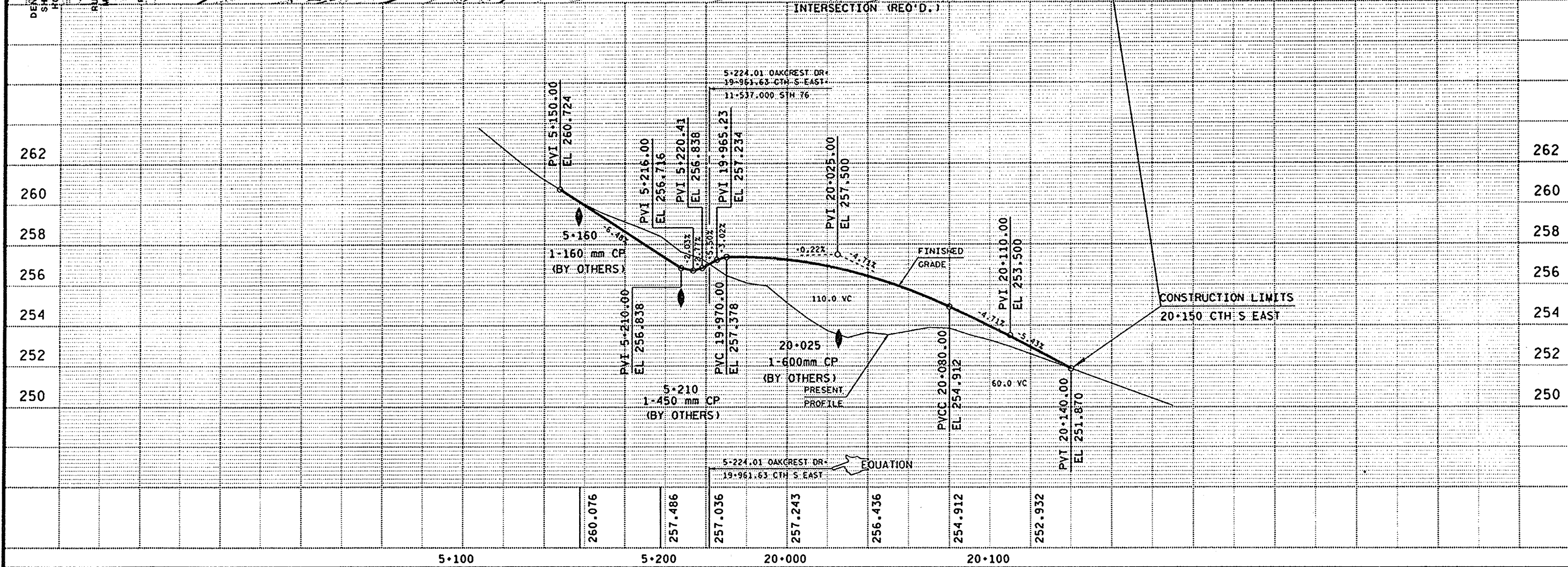
SHEET NO: 5.2

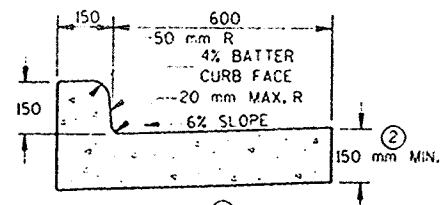
M

REV. DATE: 11-10-97
PLOT NAME: 03504
PLOT SCALE: 1:0000
LEVELS ON: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63
FILE NAME: 03 651706:03504.dgn

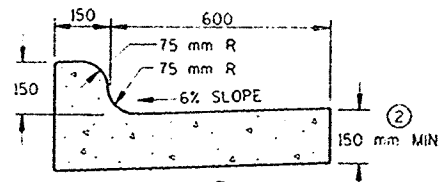


BENCH MARKS		
NO.	STATION	DESCRIPTION
606	20+020	RAILROAD SPIKE IN PP 70-302-45-C2 SE QUAD STH 76 & CTH S EAST 0 m RT
		ELEV.
		253.865

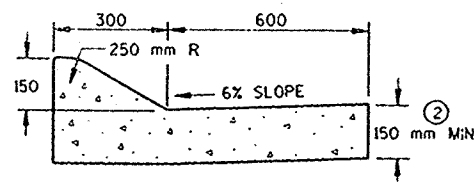




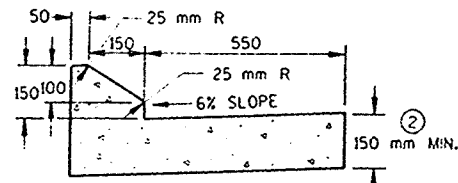
TYPES A & D



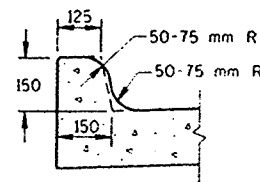
TYPES K & L



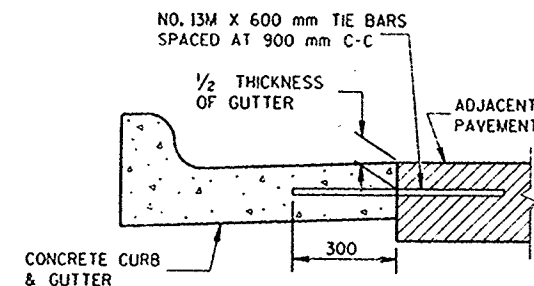
TYPES A & D
CONCRETE CURB & GUTTER 900 mm



TYPES G & J

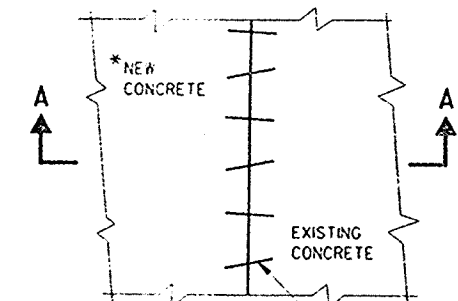


OPTIONAL CURB SHAPE
FOR TYPES K & L



TYPICAL TIE BAR LOCATION

CONCRETE CURB & GUTTER 750 mm



PLAN VIEW

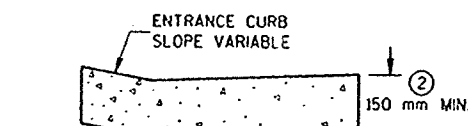
* NEW CURB & GUTTER,
SURFACE DRAINS,
CONCRETE PAVEMENT
OR OTHER NEW CONCRETE.

NO. 19M X 300 mm DEF. BARS
SPACED 900 mm C-C,
INSTALLED ON 6:1 SKEW
HORIZONTALLY. DIRECTION
OF SKEW ALTERNATING AFTER
EVERY ONE OR TWO BARS.

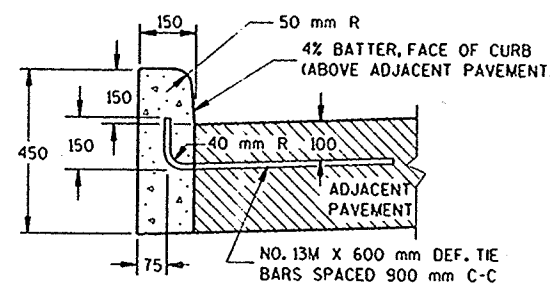
THE HOLE FOR THE BAR SHALL
BE DRILLED TO A DEPTH OF
175 mm AND TO SUCH A DIAMETER
AS TO PROVIDE A TIGHT
DRIVEN FIT

EXISTING
CONCRETE

SECTION A-A
PAVEMENT TIES

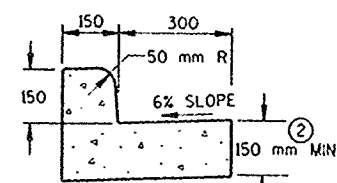


DRIVEWAY ENTRANCE CURB
(WHEN DIRECTED BY THE ENGINEER)

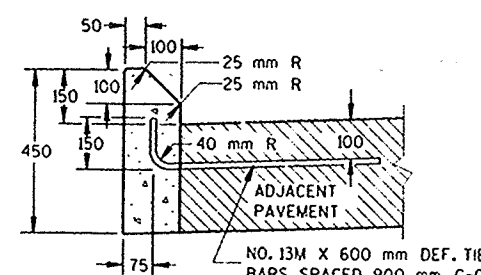


TYPES A & D

CONCRETE CURB



TYPES A & D
CONCRETE CURB & GUTTER 450 mm



TYPES G & J

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

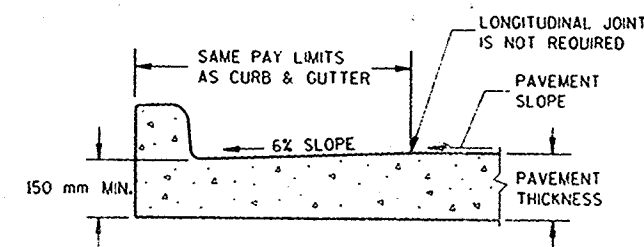
WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE COURSE AND UNCLASSIFIED EXCAVATION LIMITS ARE 600 mm BEHIND THE BACK OF CURBS.

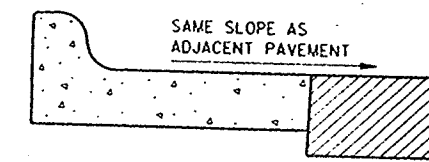
- 1 TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G AND K.
- 2 THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE COURSE PROVIDED A 150 mm MINIMUM GUTTER THICKNESS IS MAINTAINED.
- 3 WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.

NOTE

DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.



PARTIAL SECTION OF PAVEMENT
WITH INTEGRAL CURB & GUTTER



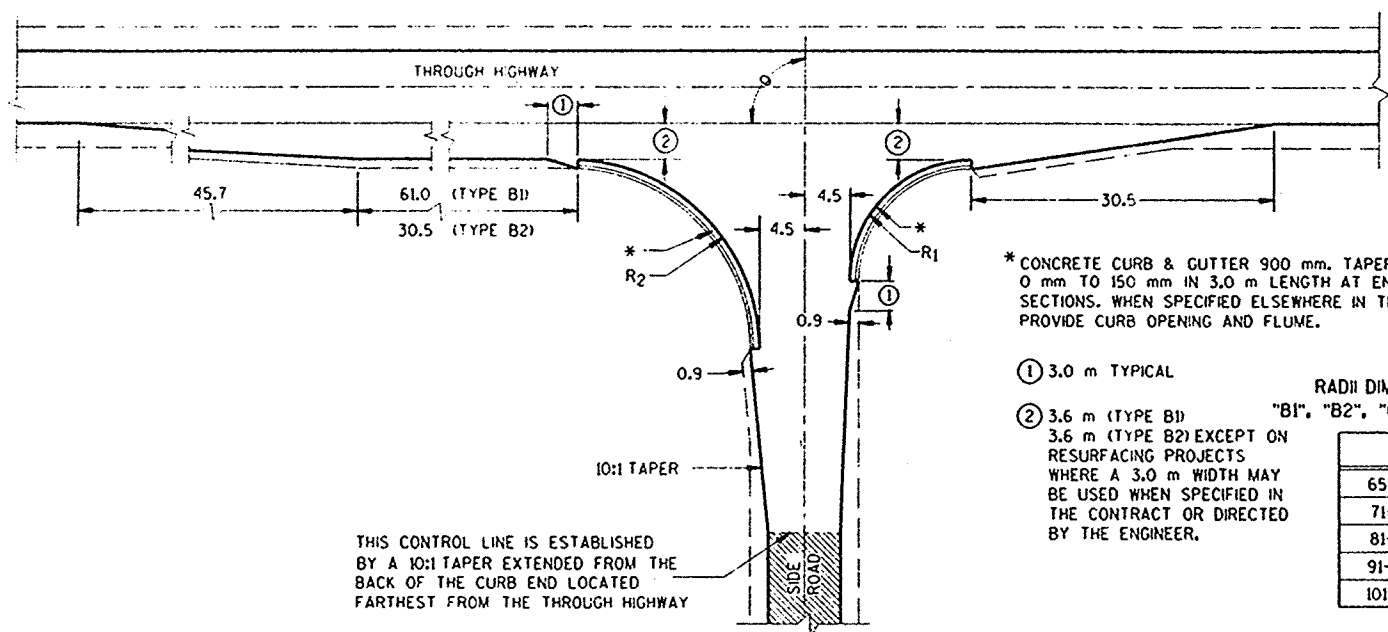
REVERSE SLOPE GUTTER
(TYPICAL FOR ALL CURB & GUTTER TYPES)

CONCRETE CURB, CONCRETE
CURB & GUTTER AND
PAVEMENT TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/22/96
DATE
Roy L. Thorne
CHIEF ROADWAY DEVELOPMENT ENGINEER

FILE NAME: S.D.D. 8 D 1-12



TYPE "B1" AND "B2"

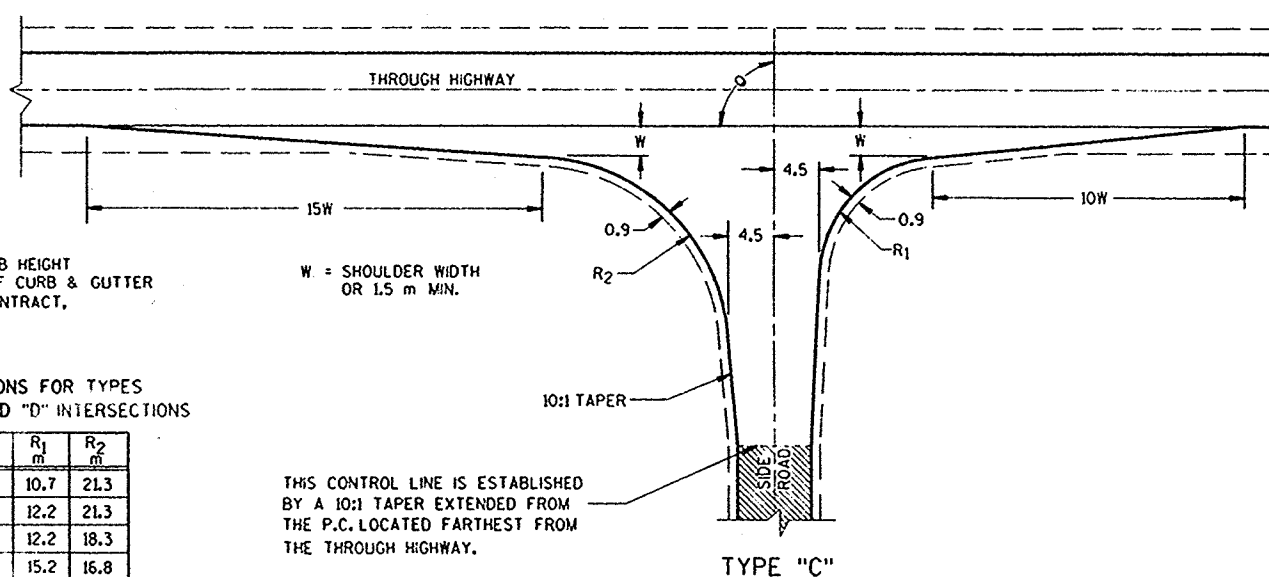
* CONCRETE CURB & GUTTER 900 mm. TAPER CURB HEIGHT 0 mm TO 150 mm IN 3.0 m LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

① 3.0 m TYPICAL

② 3.6 m (TYPE B1)
3.6 m (TYPE B2) EXCEPT ON RESURFACING PROJECTS WHERE A 3.0 m WIDTH MAY BE USED WHEN SPECIFIED IN THE CONTRACT OR DIRECTED BY THE ENGINEER.

RADI DIMENSIONS FOR TYPES "B1", "B2", "C" AND "D" INTERSECTIONS

0	R ₁ m	R ₂ m
65-70	10.7	21.3
71-80	12.2	21.3
81-90	12.2	18.3
91-100	15.2	16.8
101-110	18.3	13.7



TYPE "C"

GENERAL NOTES

DESIGNS MAY BE USED INTERCHANGEABLY IN COMBINATION OR SEPARATELY FOR ANY ONE COMPLETE INTERSECTION DEPENDING UPON INTERSECTION ANGLE AND SURFACING OF EACH APPROACH ROADWAY.

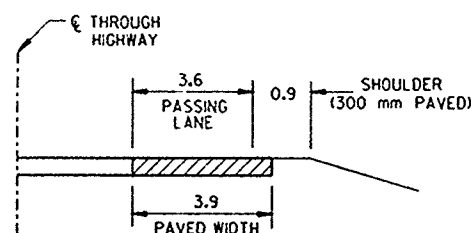
SIDE ROAD SURFACING NOTE

WHEN THE SIDE ROAD IS NOT PRESENTLY PAVED, PAVEMENT SHALL BE PLACED TO THE LIMITS SHOWN UNLESS OTHERWISE PROVIDED IN THE CONTRACT. WHERE THE CONSTRUCTION LIMITS ARE BEYOND THE PAVING LIMITS, CRUSHED AGGREGATE SURFACING SHALL BE PLACED BETWEEN THE PAVING LIMITS AND CONSTRUCTION LIMITS.

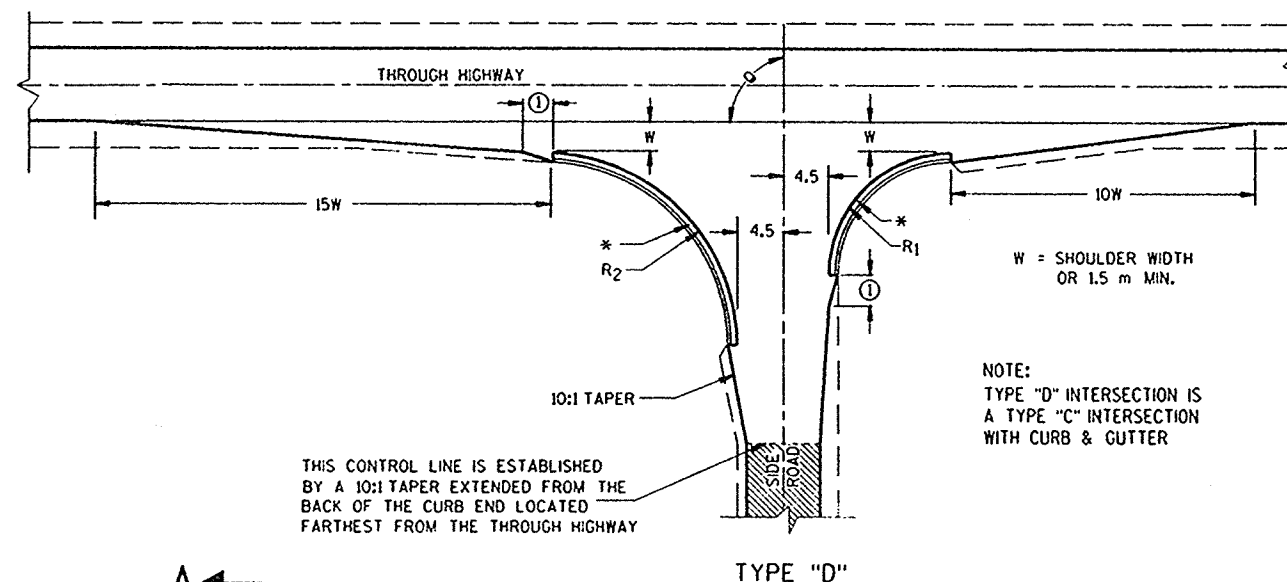
WHEN THE SIDE ROAD IS PRESENTLY PAVED, NEW PAVEMENT SHALL BE PLACED TO THE LIMITS OF DESIGN AS SHOWN AND BEYOND, IF NECESSARY, TO MEET EXISTING PAVEMENT.

WHEN THE SIDE ROAD IS THE CONSTRUCTION PROJECT, THE INTERSECTION SURFACING SHALL BE THE SAME AS FOR THE PROJECT.

EXISTING SURFACE



SECTION A-A
(SHOWING PASSING LANE AND SHOULDER)

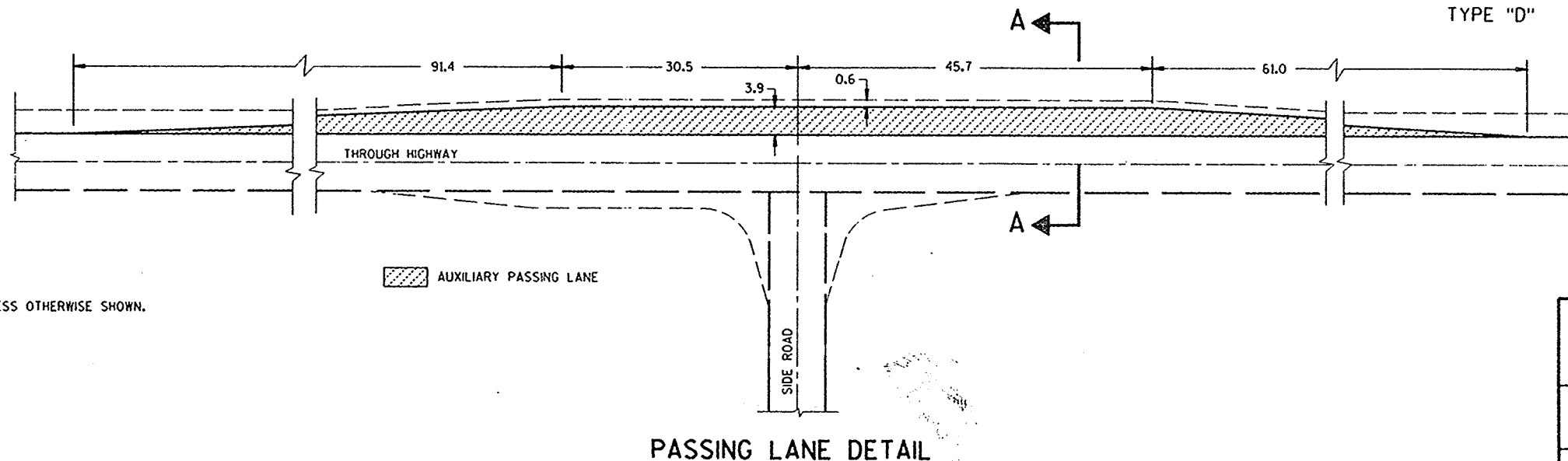


TYPE "D"

NOTE:
TYPE "D" INTERSECTION IS A TYPE "C" INTERSECTION WITH CURB & GUTTER

NOTE:

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.



PASSING LANE DETAIL

AT-GRADE SIDE ROAD
INTERSECTION, TYPES "B1", "B2", "C"
AND "D" AND PASSING LANE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

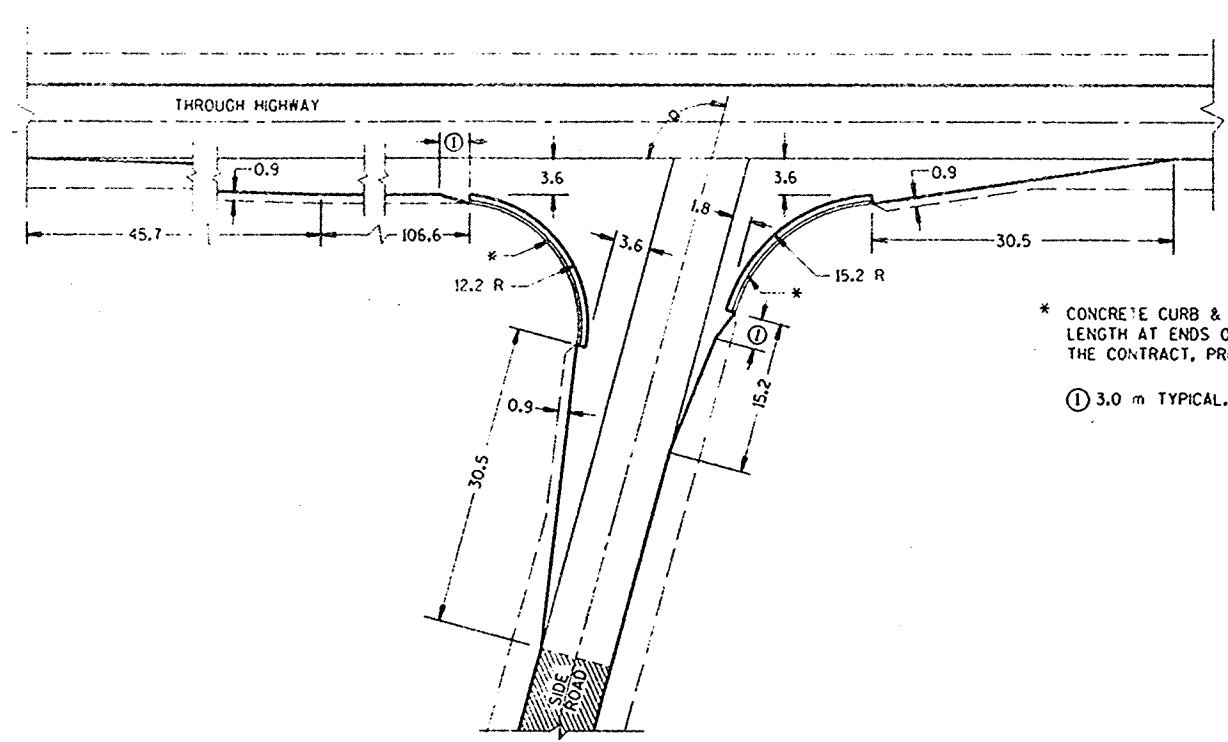
APPROVED
10/10/90
DATE

Roy L. Hunsman
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

M

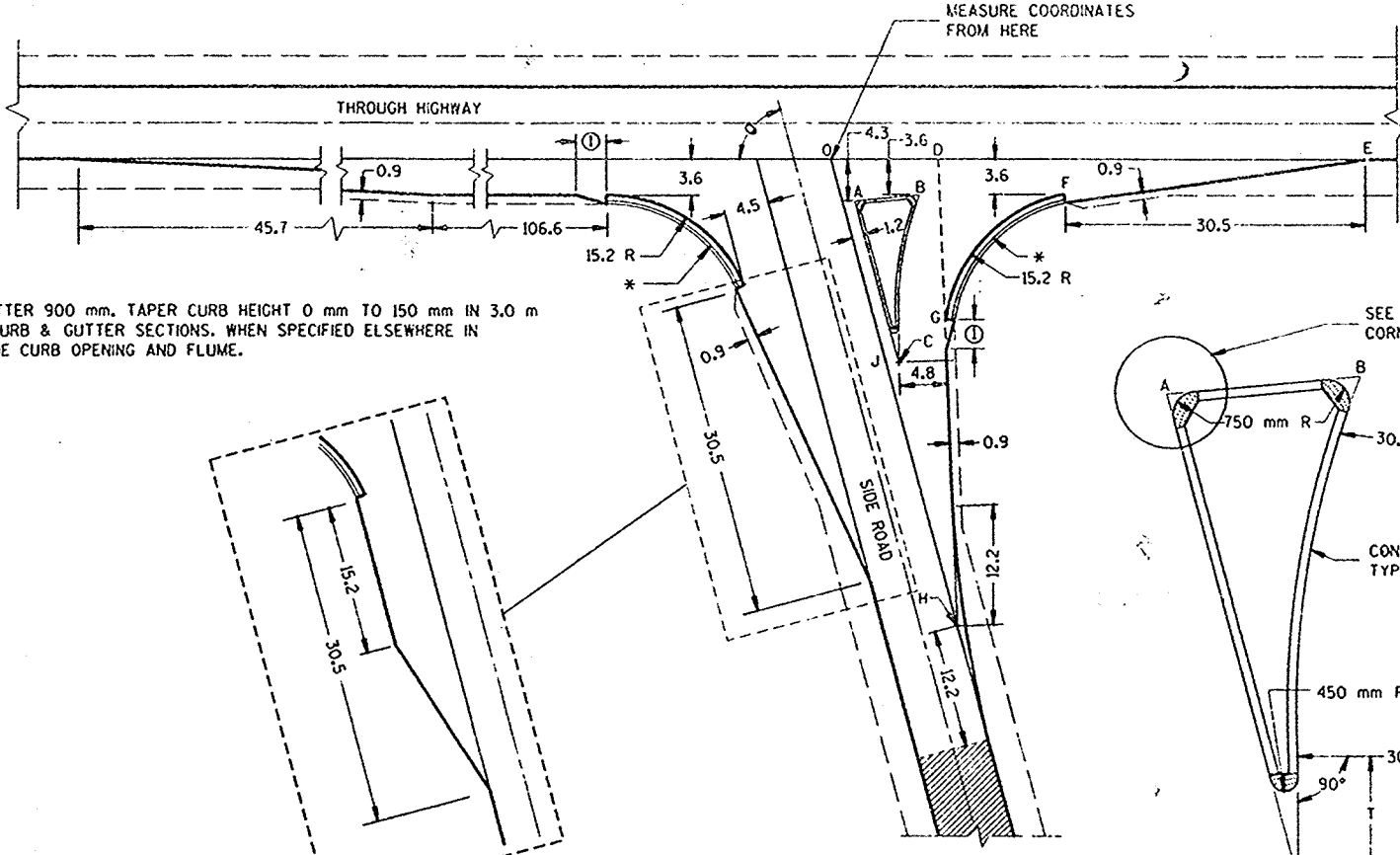
LEVELS ON - 2.3, 4, 5.6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63



$\theta = \text{MORE THAN } 80^\circ$

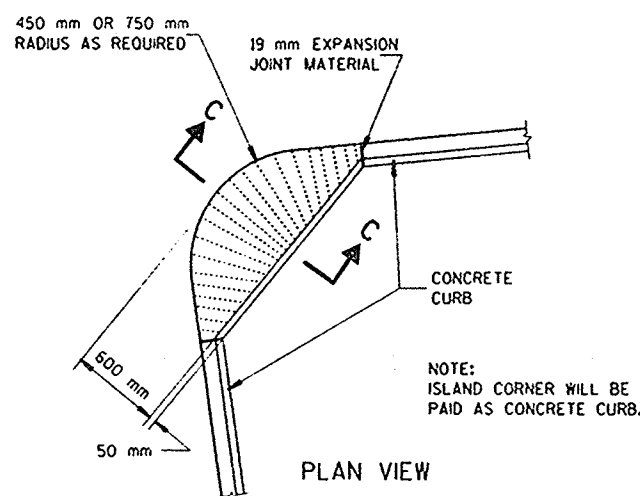
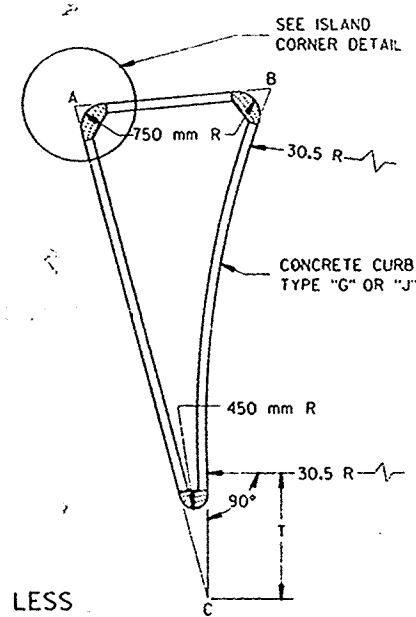
* CONCRETE CURB & GUTTER 900 mm. TAPER CURB HEIGHT 0 mm TO 150 mm IN 3.0 m LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

① 3.0 m TYPICAL.

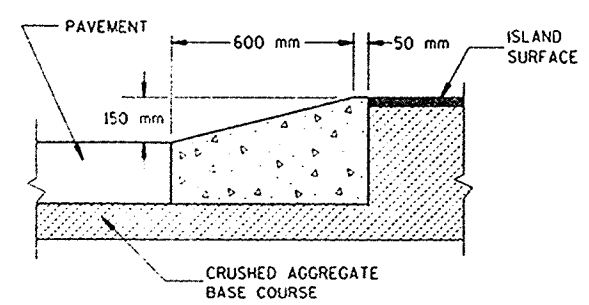


$\theta = \text{ACUTE ANGLES } 80^\circ \text{ OR LESS}$

SIDE ROAD WIDENING AND TAPER REQUIRED WHERE THE THROUGH HIGHWAY CARRIES TWO-WAY TRAFFIC
 $\theta = \text{ACUTE ANGLES } 70^\circ \text{ OR LESS}$



PLAN VIEW



SECTION C-C

ISLAND CORNER DETAIL

(TO BE CONSTRUCTED AT ALL ISLAND CORNERS)

TABLE OF DIMENSIONS FOR
VARIABLE SIDE ROAD INTERSECTION ANGLES
(INTERPOLATE VALUES FOR ANGLES NOT SHOWN)

ANGLE θ DEGREES	COORDINATES IN METERS (MEASURED FROM POINT "O")								LENGTH IN METERS				
	A	B	C	D	E	F	G	H	AB	AC	T	OJ	OH
60	3.87	13.52	14.13	12.59	61.85	31.72	19.40	25.90	9.68	20.52	1.80	26.18	51.79
	-4.30	-3.60	-22.07	0.0	0.0	-3.60	-22.96	-44.85					
65	3.33	11.74	11.51	11.84	59.15	29.02	16.39	21.50	8.44	19.36	2.90	24.66	50.87
	-4.30	-3.60	-21.84	0.0	0.0	-3.60	-21.75	-46.10					
70	2.84	10.19	9.06	11.22	56.76	26.62	13.79	17.11	7.38	18.19	3.78	23.20	50.02
	-4.30	-3.60	-21.39	0.0	0.0	-3.60	-20.52	-47.00					
75	2.39	8.82	6.79	10.72	54.60	24.47	11.53	12.73	6.46	16.99	4.46	21.76	49.19
	-4.30	-3.60	-20.71	0.0	0.0	-3.60	-19.28	-47.51					
80	1.98	7.61	4.72	10.32	52.67	22.54	9.60	8.41	5.68	15.81	5.02	20.39	48.43
	-4.30	-3.60	-19.87	0.0	0.0	-3.60	18.02	-47.69					

TYPE "A" SIDE ROAD INTERSECTION DETAILS

NOTE:

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

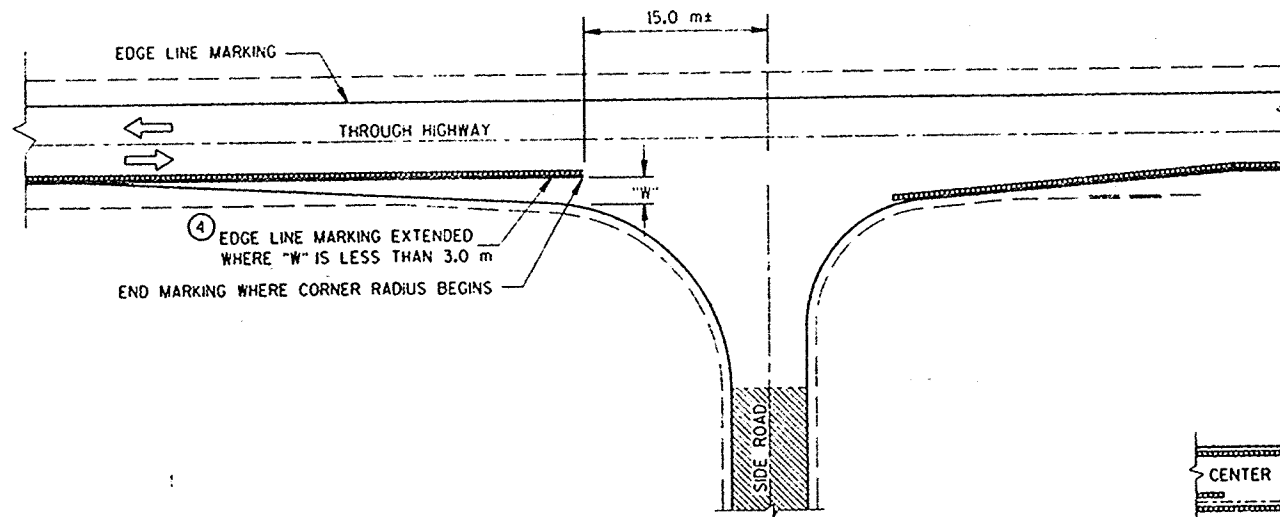
AT-GRADE SIDE ROAD
INTERSECTION, TYPE "A"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

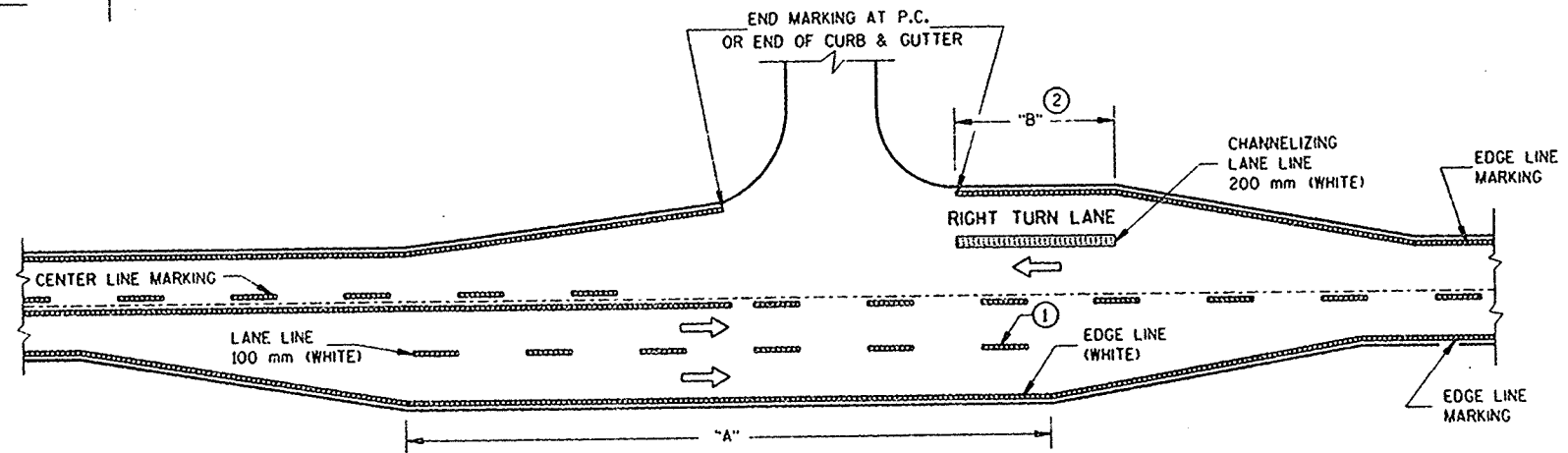
NOTES

EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED THROUGH DRIVEWAYS.

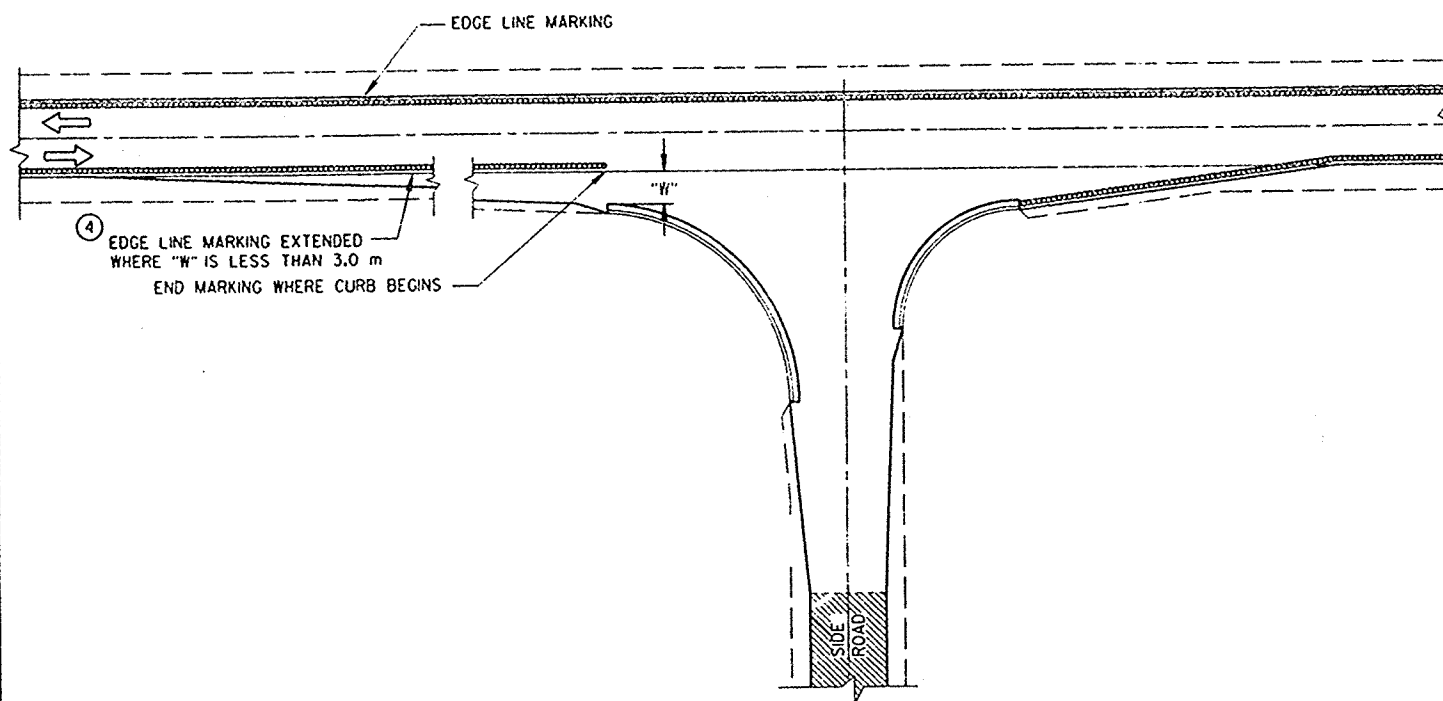
- 1 WHEN DISTANCE "A" IS LESS THAN 76 m, OMIT LANE LINE.
- 2 WHEN DISTANCE "B" IS LESS THAN 30 m, OMIT CHANNELIZING LANE LINE.
- 3 ALTERNATIVE MARKING SHALL BE PROVIDED WHEN SPECIFIED IN THE CONTRACT. TYPICAL SITUATIONS WHERE THIS MARKING MAY BE REQUIRED ARE WHERE THE INTERSECTION IS ON A SHARP HORIZONTAL CURVE OR CREST VERTICAL CURVE IN AN UNLIGHTED AREA SUCH THAT THE EDGE LINE MAY BE MISLEADING TO THE MOTORIST OR DISAPPEAR FROM SIGHT.
- 4 LOCATE THE EDGE LINE ALONG THE TAPER WHERE "W" IS 3.0 m OR MORE.



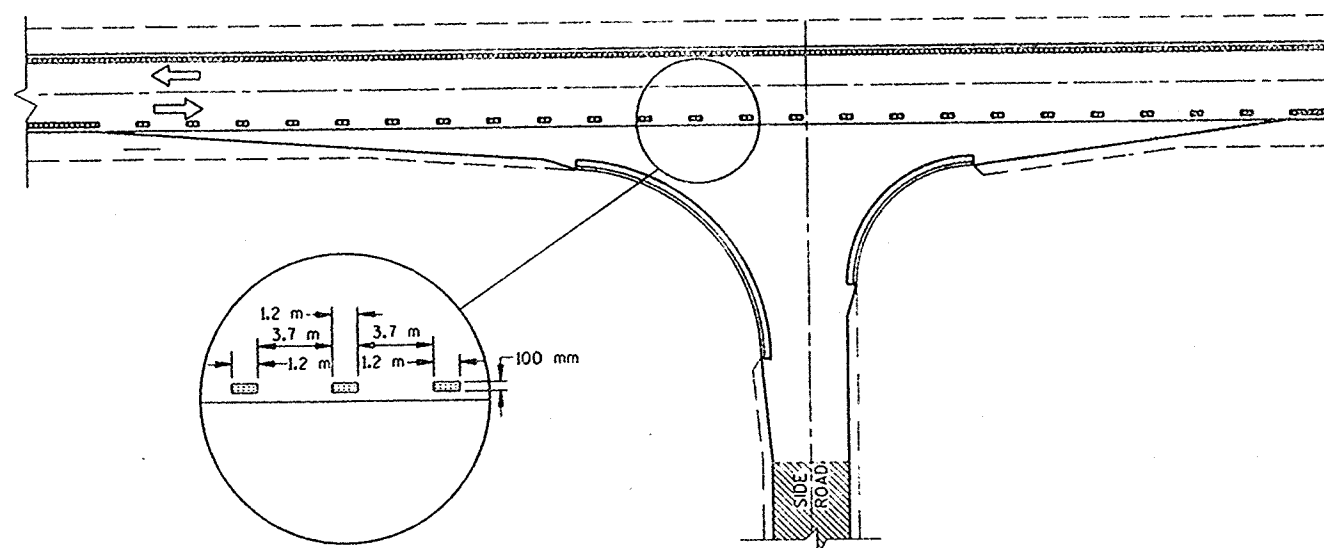
MINOR INTERSECTION WITHOUT CURBS



MAJOR INTERSECTIONS
(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANES)



MINOR INTERSECTION WITH CURBS
(TYPICAL MARKING)



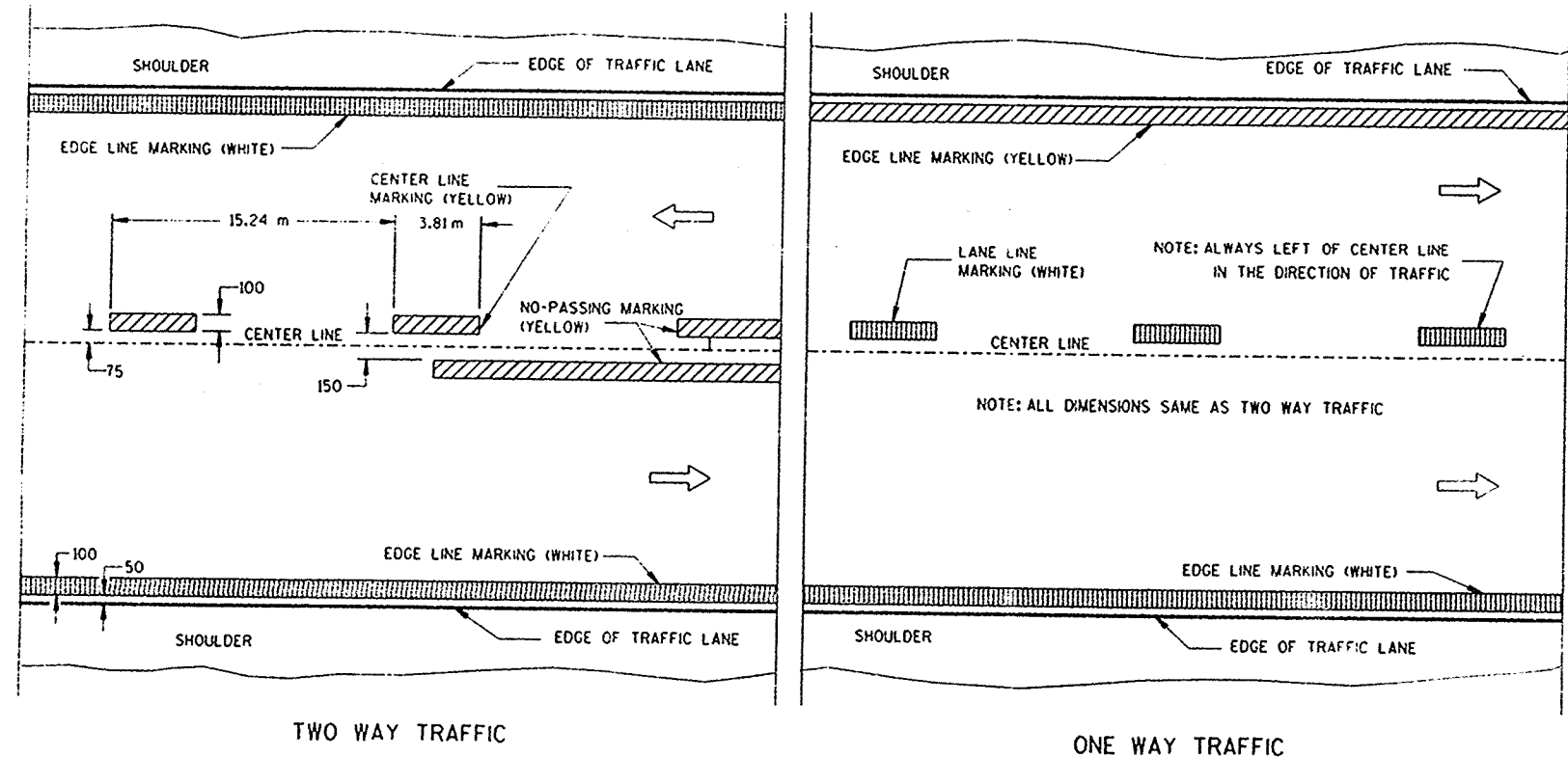
MINOR INTERSECTION WITH CURBS
(3) (FOR SPECIAL CONDITIONS AS SPECIFIED)

NOTE:
SDD 15 C 8-7a IS REQUIRED WHEN THIS DRAWING
IS CALLED FOR IN THE PLANS.

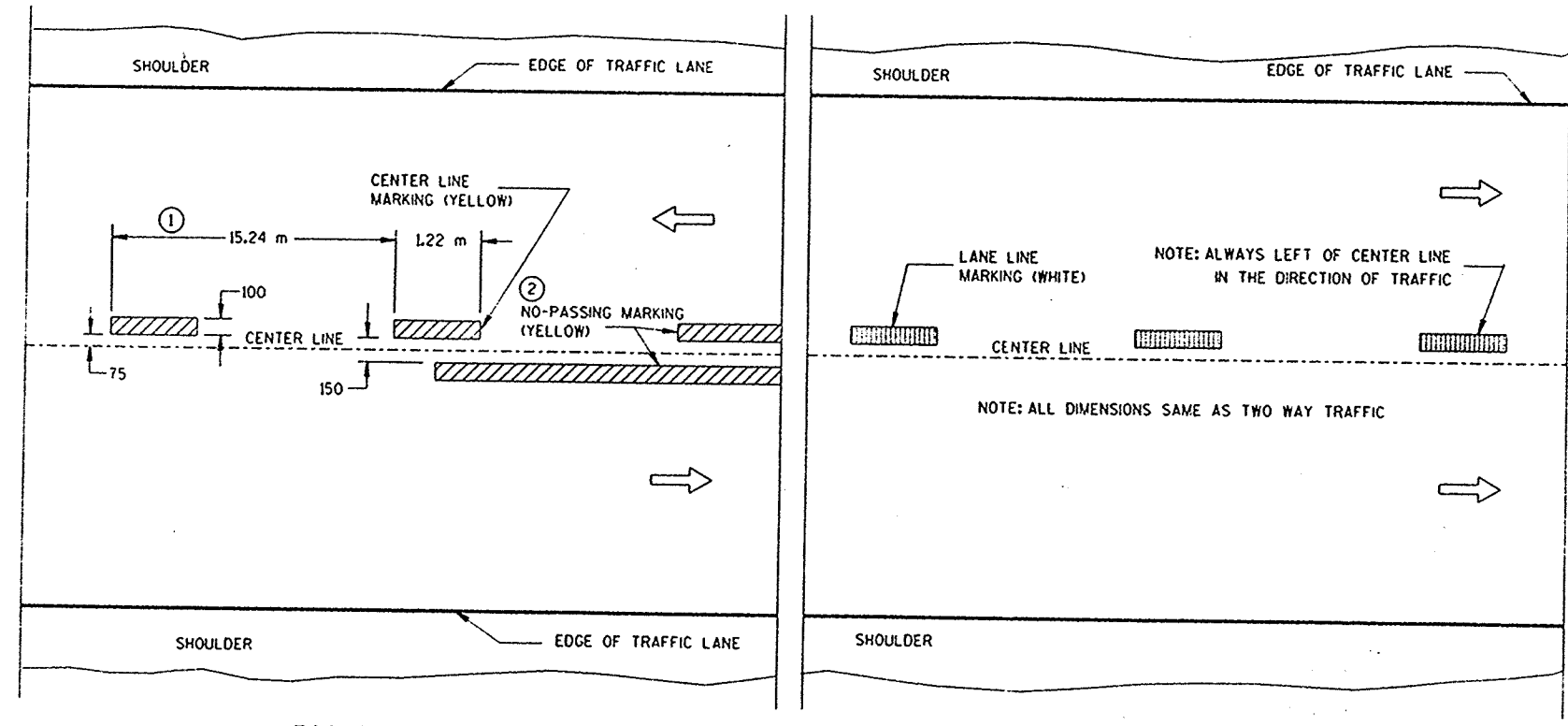
PAVEMENT MARKING
(INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

LEVELS ON - 2.3, 4, 5.6, 7.8, 9.10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63



PERMANENT PAVEMENT MARKING



TEMPORARY (INTERMEDIATE) PAVEMENT MARKING
(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

GENERAL NOTES

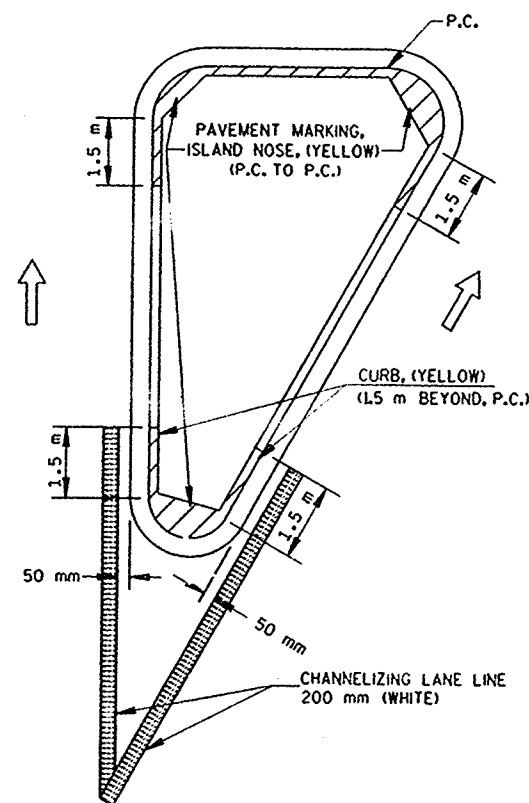
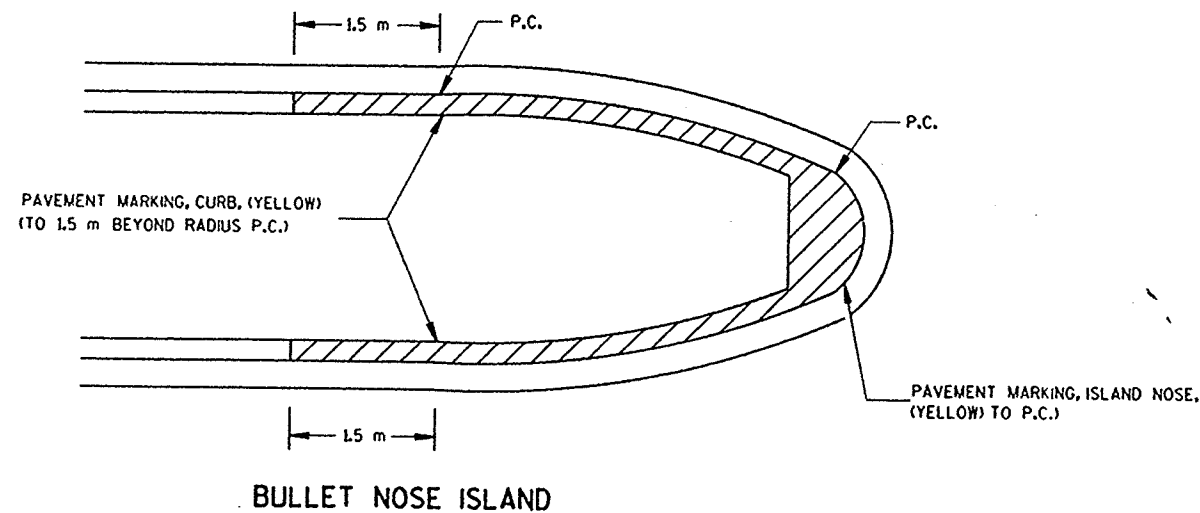
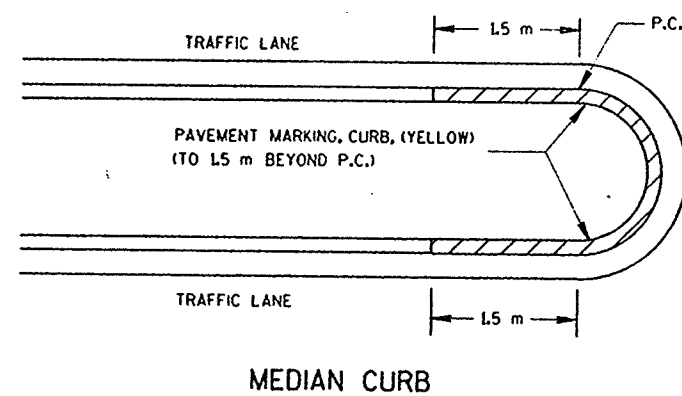
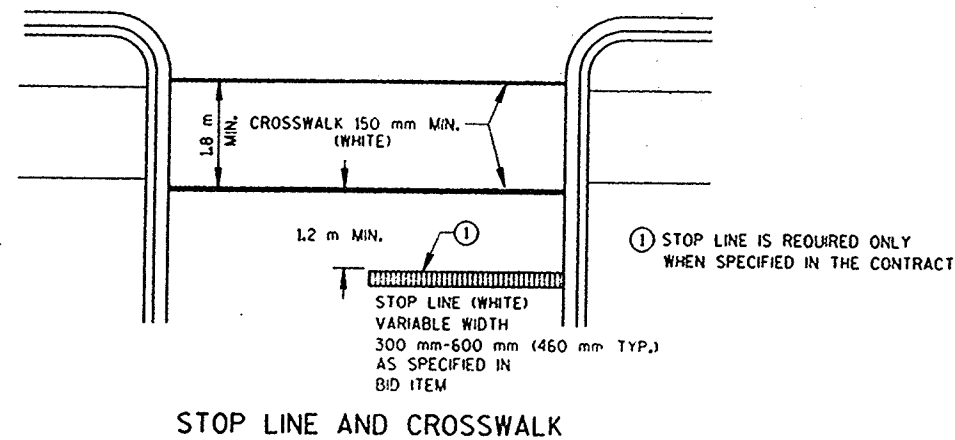
- DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
- ① HALF CYCLE LENGTHS (7.62 m±) WITH 600 mm MINIMUM STRIPE LENGTHS SHALL BE PROVIDED ON ROADWAYS (INCLUDING TEMPORARY TRAVELED WAYS) WITH REVERSE CURVATURE, CURVATURE OF OVER 5 DEGREES OR WHEN DIRECTED BY THE ENGINEER TO MARK UNUSUAL ALIGNMENT OF THE TRAVELED WAY.
 - ② NO PASSING ZONE TEMPORARY PAVEMENT MARKING IS REQUIRED TO BE PLACED, WHERE APPROPRIATE, ALONG WITH CENTERLINE TEMPORARY PAVEMENT MARKING WHEN A SAME DAY PERMANENT PAVEMENT MARKING ITEM IS INCLUDED IN THE CONTRACT.

NOTE

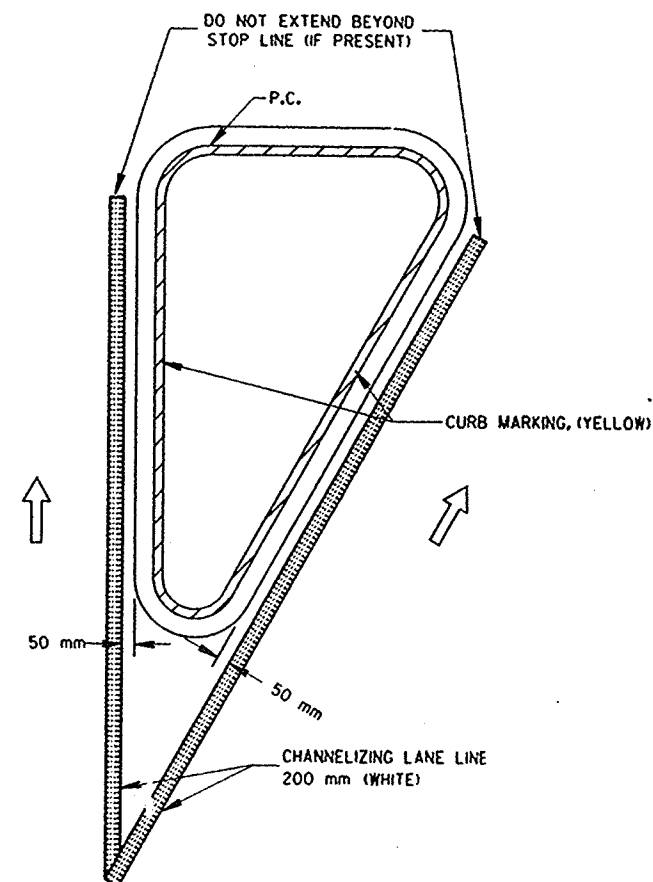
ARROW SYMBOL (→) SHOWS DIRECTION OF TRAVEL
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

PAVEMENT MARKING (MAINLINE)	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED DATE 8-7-45	<i>Christy J. Spang</i> DIRECTOR, OFFICE OF TRAFFIC

FILE NAME: 2.3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63



(GREATER THAN 15.0 m PERIMETER OR ANY SIDE
GREATER THAN 8.0 m BETWEEN CURVES)



(LESS THAN 15.0 m PERIMETER OR ANY SIDE
LESS THAN 8.0 m BETWEEN CURVES)

NOTE:
ARROW SYMBOL (→)
SHOWS DIRECTION OF TRAVEL

PAVEMENT MARKING (ISLANDS, STOP LINE & CROSS WALK)	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 8-7-98 DATE	Chris J. Spang for DIRECTOR, OFFICE OF TRAFFIC
FHWA	