STATE OF MINNESOTA
DEPARTMENT OF HIGHWAYS
Plan and Profile of State Aid Road No. 11

From 1896.03' WESTERLY OF AND 129.99' NORTHERLY S.E. COR. SEC. 10, T-31N, R-24W To 631.25' EAST OF AND 402.53' SOUTH OF N 1/4 COR. SEC. 14, T-31N, R-24W

Give proper reference to Sections, Township and Range

GROSS LENGTH 5219.6 FEET 98.86 MILES
LENGTH OF EXCEPTIONS 88.0 FEET .017 MILES
NET LENGTH 5131.6 FEET 97.19 MILES

SCALES
- PLAN. Inch = 100 Feet.
- PROFILE, Horz. Inch = 100 Feet. Vert. Inch = 10 Feet
- WORKING PLANS
  - Horz. Inch = 100 Feet
  - Vert. Inch = 10 Feet
  - Cross-Section, Inch = 10 Feet

LAYOUT
Scale, Inch = 10 Feet

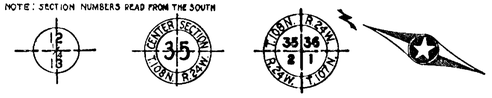
CONVENTIONAL SIGNS

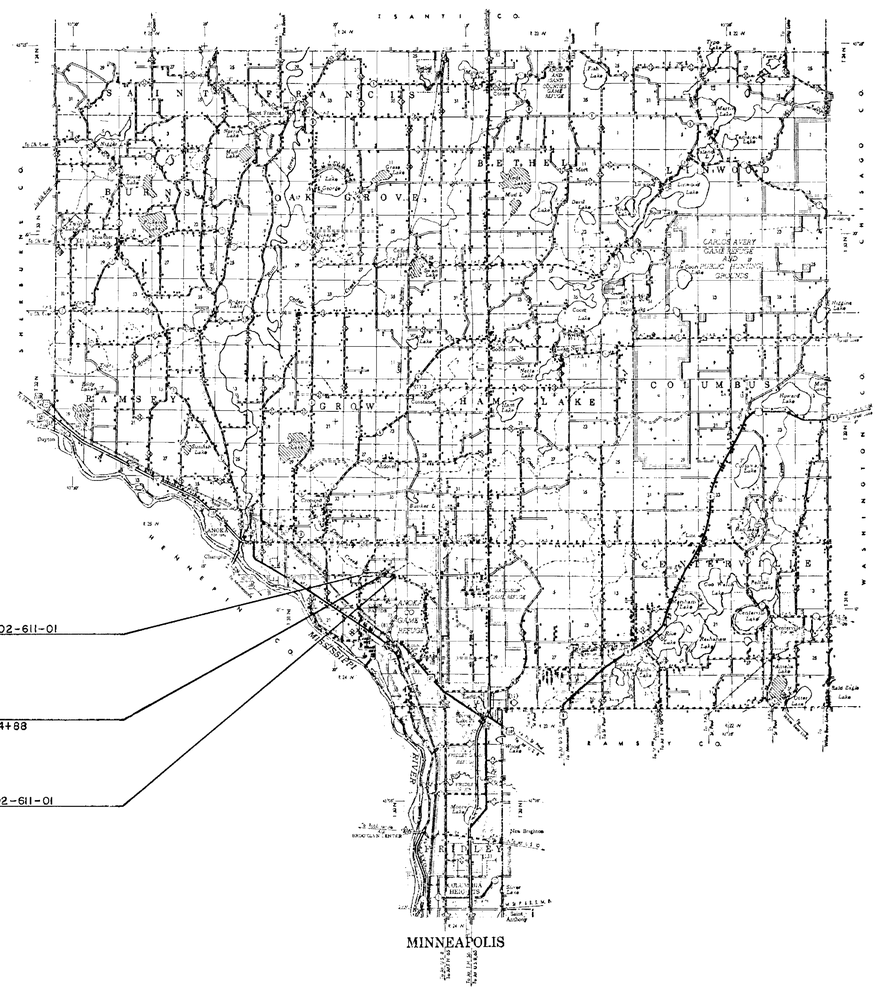
STATE LINE
COUNTY LINE
TWP. OR RANGE LINE
SECTION LINE
RIGHT OF WAY LINE
CORPORATE OR CITY LIMITS
ROAD CENTER LINE
RETAINING WALL
RAILROADS
CREEK
DRY RUN
DRAINAGE DITCH
POWER POLE LINE
TELEPHONE OR TELEGRAPH LINE
CULVERTS - PLAIN
WITH ENDWALLS
WITH WINGWALLS
DROP INLET
FENCE LINE
GRAVEL PIT
SAND PIT
CLAY PIT
ROCK QUARRY
SPRINGS
MARSH
BRUSH OR TIMBER
HEDGE
ROCK LEDGE
SAND
EDGE OF CUT
TOE OF EMBANKMENT
RAILROAD R/W LINE
BUILDING (One Story Frame)

ABBREVIATIONS

EXCAVATION	EXC.
EARTH	E.
LOOSE ROCK	L.R.
SOLID ROCK	S.R.
EMBANKMENT	F.
OVERHAUL	H.
SURFACING	S.
HAND DITCHING	H.D.
SPECIAL EXCAVATION	S.E.
SPECIAL PLOWING	S.P.
GUARD RAIL	G.R.
CORRUGATED METAL CULVERT	C.M.CULV.
SECTIONAL CONCRETE CULVERT	R.CULV.
SECTIONAL CONCRETE CULVERT (Heavy Type)	R.CULV.
TON MILES	T.M.
TELEPHONE POLE	TEL.P.
POWER POLE	P.P.
PLACE	P.
INPLACE	INP.
REPLACE	REP.
RIGHT	RT.
LEFT	LT.
INTERSECTION ANGLE	Δ
RADIUS	R.
TANGENT	T.
LENGTH OF CURVE	L.
POINT OF CURVE	P.C.
POINT OF TANGENT	P.T.
POINT OF INTERSECTION	P.I.
VERTICAL CURVE	V.C.
BENCH MARK	B.M.
ELEVATION	EL.
ACRES	A.

NOTE: SECTION NUMBERS READ FROM THE SOUTH





MINNEAPOLIS

INDEX OF SHEETS

Sheet No. 1. Title Sheet and Layout Map
" No. 2. Typical Cross-Sections and Statement
" No. 3. Plan and Profile, Sta. 60+36.4 to Sta. 113+00.
" No. 4.-11 CROSS-SECTION SHEETS

SPECIFICATION REFERENCE:
The specifications for Highway Construction, dated July 1, 1947, and submitted for approval by the Division Engineer of the Bureau of Public Roads October 15, 1947, as modified by 'supplement 1' thereto dated April 15, 1953, and submitted for approval by the Division Engineer of the Bureau of Public Roads on March 25, 1953, shall govern.

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

DATE 2-2-59 REG. NO. 2551

DESIGN SPEED 50 M.P.H.

PLANNED BY E. J. LUNDHEIM 1959
COUNTY ENGINEER FOR ANOKA COUNTY
RECOMMENDED FOR APPROVAL 2/13 1959 DISTRICT ENGINEER
RECOMMENDED FOR APPROVAL 2/6 1959
APPROVED 2-9 1959 STATE AID ENGINEER.

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

APPROVED

DISTRICT ENGINEER DATE

MICRO-FILMED

State Aid Project No. 02-611-01.

S.A.P. 02-611-01. C. P. No. 59-02-11 Plan No. Sheet No. 1 of 11 Sheets.

H. A. ROGERS CO. Minneapolis

FORM 129 C - # 1 REV. '46

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.		FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5N	MINN.					

ESTIMATED QUANTITIES

	SPECIFICATION NO.	ITEM	UNIT	TOTAL ESTIMATED QUANTITIES
	2101.501	CLEARING	ACRE	1.7
	2101.502	CLEARING	TREE	16.0
	2101.506	GRUBBING	ACRE	1.75
	2101.507	GRUBBING	TREE	27.
	2104.510	REMOVE FENCE	LIN. FT.	3701
	151.501	RESET FENCE	LIN. FT.	3701
*	2105.501	CLASS "A" EXCAVATION	CU. YD.	42,971
***	2105.514	SALVAGE BITUMINOUS MIXTURE	CU. YD. (V.M)	1,340
	2501.501	PIPE CULV. EXCAVATION	CU. YD.	52.4
	2501.511-18	F&I 18" C.M.P. CULV.	LIN. FT.	512
	2501.511-36	F&I 36" C.M.P. CULV.	LIN. FT.	148
	2501.521-24	F&I SECT. CONC. PIPE CULV. (24") (CLASS 3)	LIN. FT.	34.0
	2515.531-36	F&I APRONS FOR C.M.P. (36")	APRON	6
	2515.541-24	F&I CONC. APRONS FOR S.C.P. (24")	APRON	2
**	2574.501	ROADSIDE SEEDING	ACRE	9.0

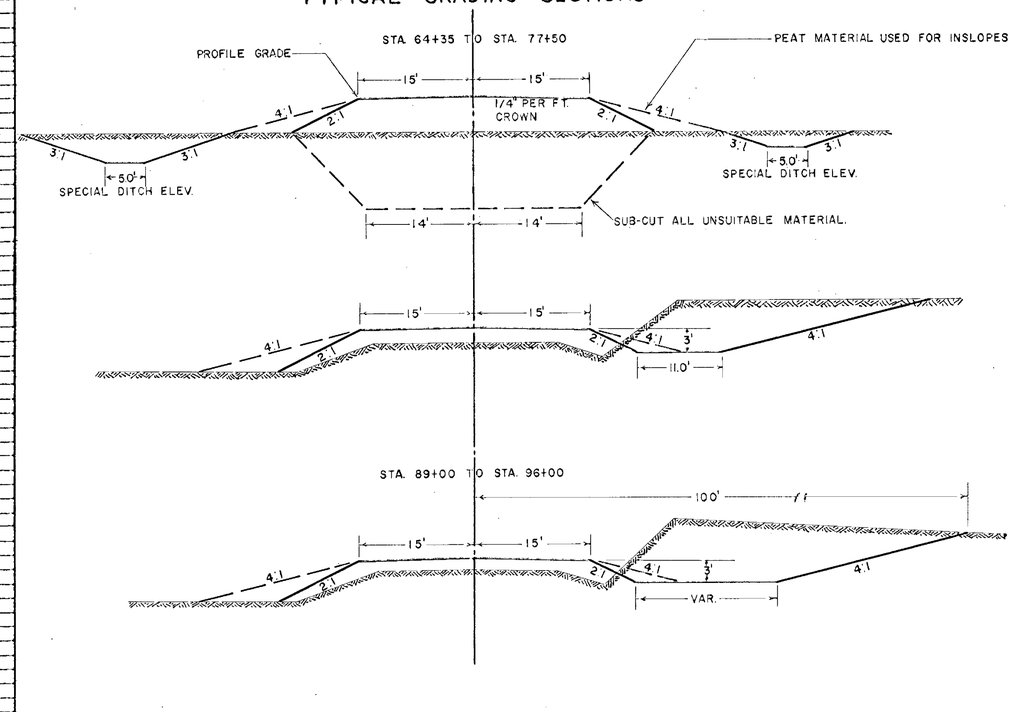
* THIS INCLUDES 11,802 CU. YDS. PEAT EXC.
** COUNTY SHALL FURNISH SEED.
*** SALVAGE BIT., TO BE PLACED BETWEEN STA. 60+36.4 TO STA. 112+56

STANDARD DETAIL PLATES

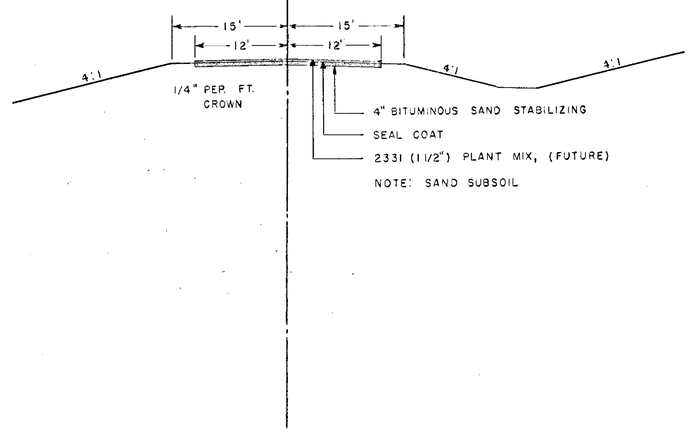
THE FOLLOWING STANDARD DETAIL PLATES, APPROVED BY THE BUREAU OF PUBLIC ROADS, SHALL APPLY ON THIS PROJECT.

PLATE NO.	DESCRIPTION
3000-3001	S.C.P. CULVERTS
3100	CONCRETE APRON FOR S.C.P. CULV.
3120	METAL APRON FOR C.M.P. CULV.

TYPICAL GRADING SECTIONS



TYPICAL BASE & SURFACE SECTIONS



SPECIAL DETAILS

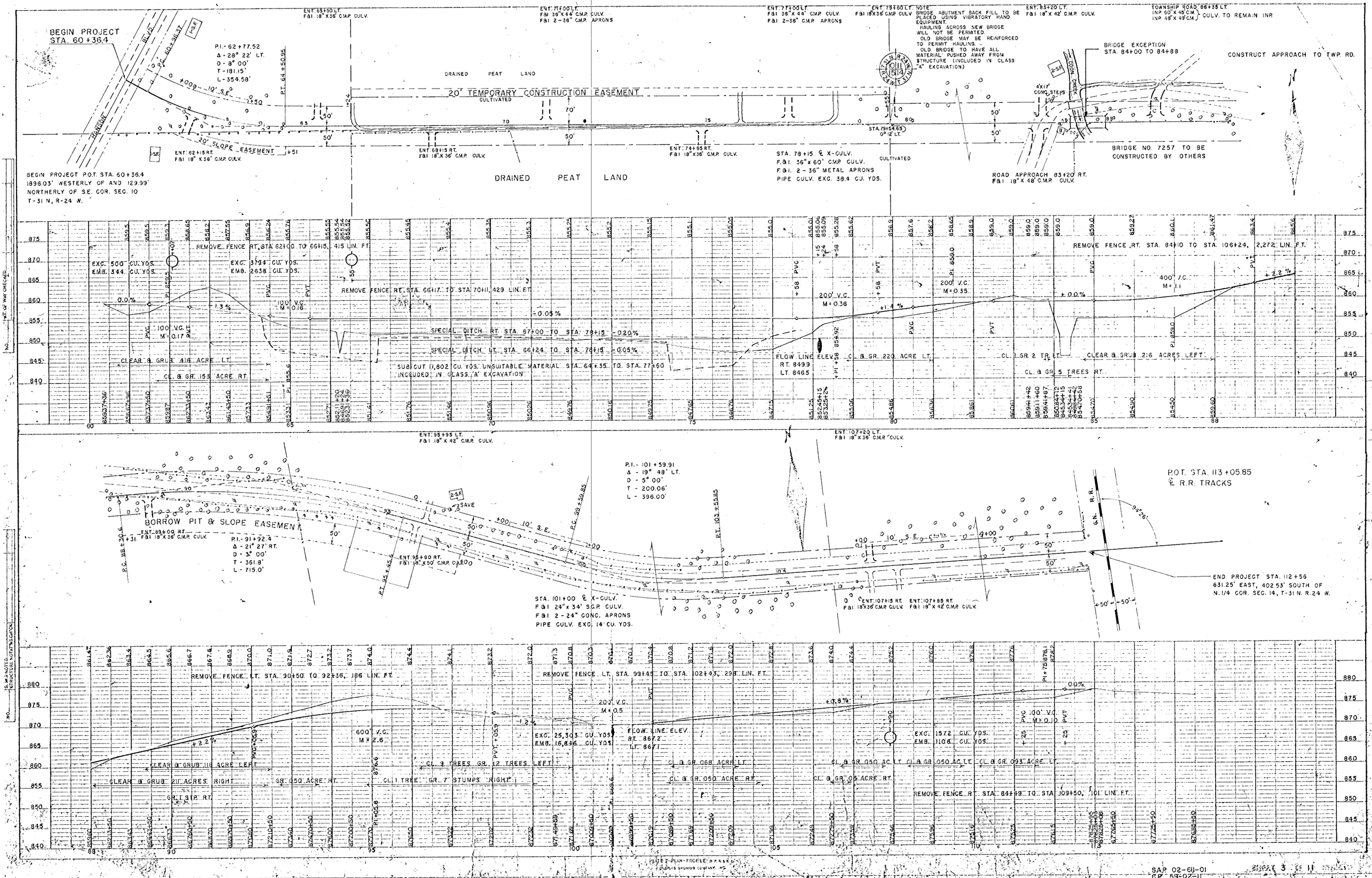
ROAD BED TO BE BLADED TO 1/4" PER FT. PITCH DURING FINISHING OPERATIONS.

ALL CURVES SHALL BE SUPERELEVATED IN ACCORDANCE WITH DESIGN STANDARDS DURING CONSTRUCTION.

THE UPPER 1.0' OF NATURAL SOIL IS CONSIDERED UNSUITABLE FOR USE IN THE UPPER 1.0' OF ROADWAY. THIS PORTION SHALL BE PLACED BELOW THE UPPER 1.0' OF THE EMBANKMENT.

PEAT MATERIAL OBTAINED FROM SUB-CUT FROM STA. 64+35 TO 77+50 WILL BE USED TO BUILD 4:1 INSLOPES AND FOR 0.2' COVERING OF DITCH BOTTOMS AND BACKSLOPES ON FULL LENGTH OF PROJECT. REMAINING PEAT SPOIL BANKS (IF ANY) TO BE LEFT, SO AS NOT TO CREATE ANY PONDING, AND WITH SLOPES OF 6:1

WIDENED SECTIONS BETWEEN STA. 88+31 TO STA. 97+00 INCLUDED IN REGULAR CLASS "A" EXCAVATION.



SAP 02-611-01
CP 59-02-11

SHEET 3 OF 11