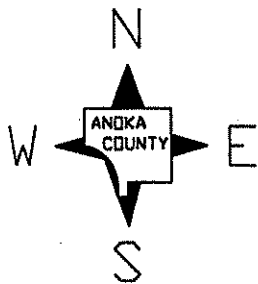


ANDOKA COUNTY HIGHWAY DEPARTMENT



CONSTRUCTION PLAN FOR: COLD RECYCLING INPLACE BITUMINOUS & BITUMINOUS SURFACING

COUNTY ROAD NO. C.R. 58

From: C.S.A.H. NO. 9 (ROUND LAKE BLVD.)

To: C.S.A.H. NO. 78 (HANSON BLVD.)

From: _____

To: _____

COUNTY PROJECT NO. 99-11-58

GROSS LENGTH 10,437.10 FEET 1.977 MILES

BRIDGES LENGTH 0.00 FEET 0.000 MILES

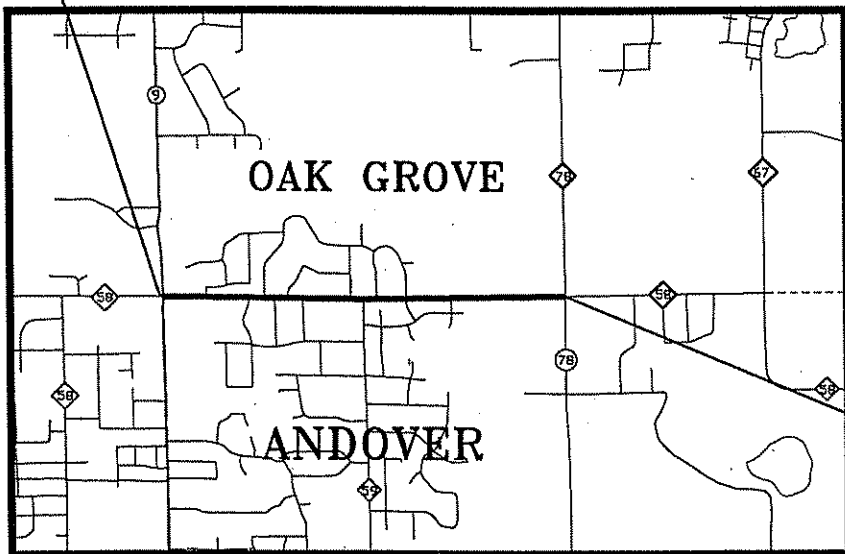
EXCEPTIONS LENGTH 0.00 FEET 0.000 MILES

NET LENGTH 10,437.10 FEET 1.977 MILES

ADT (1998) = 1523

7 TON DESIGN

BEGIN C.P. 99-11-58



END C.P. 99-11-58


GOVERNING SPECIFICATIONS

THE 1995 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION".

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MMUTCD, INCLUDING "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS" DATED JANUARY 1998.

ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND ORDINANCES WILL BE COMPLIED WITH IN THE CONSTRUCTION OF THIS PROJECT.

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 MINN.


ASSISTANT COUNTY ENGINEER REG. NO. 25066 DATE: 4-5-99

APPROVED: 4/23/99 
ANOKA COUNTY ENGINEER

STATEMENT OF ESTIMATED QUANTITIES


ITEM NO	ITEM	UNIT	EST. QUANT.
2021.501	MOBILIZATION	L S	1
2104.503	REMOVE CONCRETE PAVEMENT	SQ YD	30
2104.511	SAW CONCRETE PAVEMENT	LIN FT	27
2120.501	EARTH SHOULDERING	CU YD	628
① 2123.503	MOTOR GRADER	HOURLY	40
② 2130.501	WATER	M-GAL	40
③ 2211.501	AGGREGATE BASE CLASS 5	TON	105
④ 2232.501	MILL BITUMINOUS SURFACE	SQ YD	72
2331.604	COLD RECYCLE INPLACE BITUMINOUS MIXTURE	SQ YD	27832
2350.604	TYPE MV 4 WEAR COURSE MIX 1 1/2" THICK	SQ YD	828
2350.609	TYPE MV 4 WEARING COURSE MIXTURE	TON	2690
2350.609	TYPE LV 3 NON WEARING COURSE MIXTURE	TON	4050
2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GALLON	1665
2540.602	INSTALL MAIL BOX SUPPORT	EACH	20
2575.501	SEEDING	ACRE	2.4
2575.502	SEED MIXTURE 80A	POUND	107
2575.512	MULCH MATERIAL TYPE 2	GALLON	574
2575.532	COMMERCIAL FERTILIZER ANALYSIS 10-10-10	POUND	1186
2580.501	TEMPORARY LANE MARKING	LIN FT	1670

- ① FOR TOPSOIL STRIPPING & SUBGRADE PREPARATION.
- ② FOR DUST CONTROL AS DIRECTED BY THE ENGINEER.
- ③ FOR RESTORATION OF AGGREGATE ENTRANCES.
- ④ FOR BUTT JOINT MILLING.

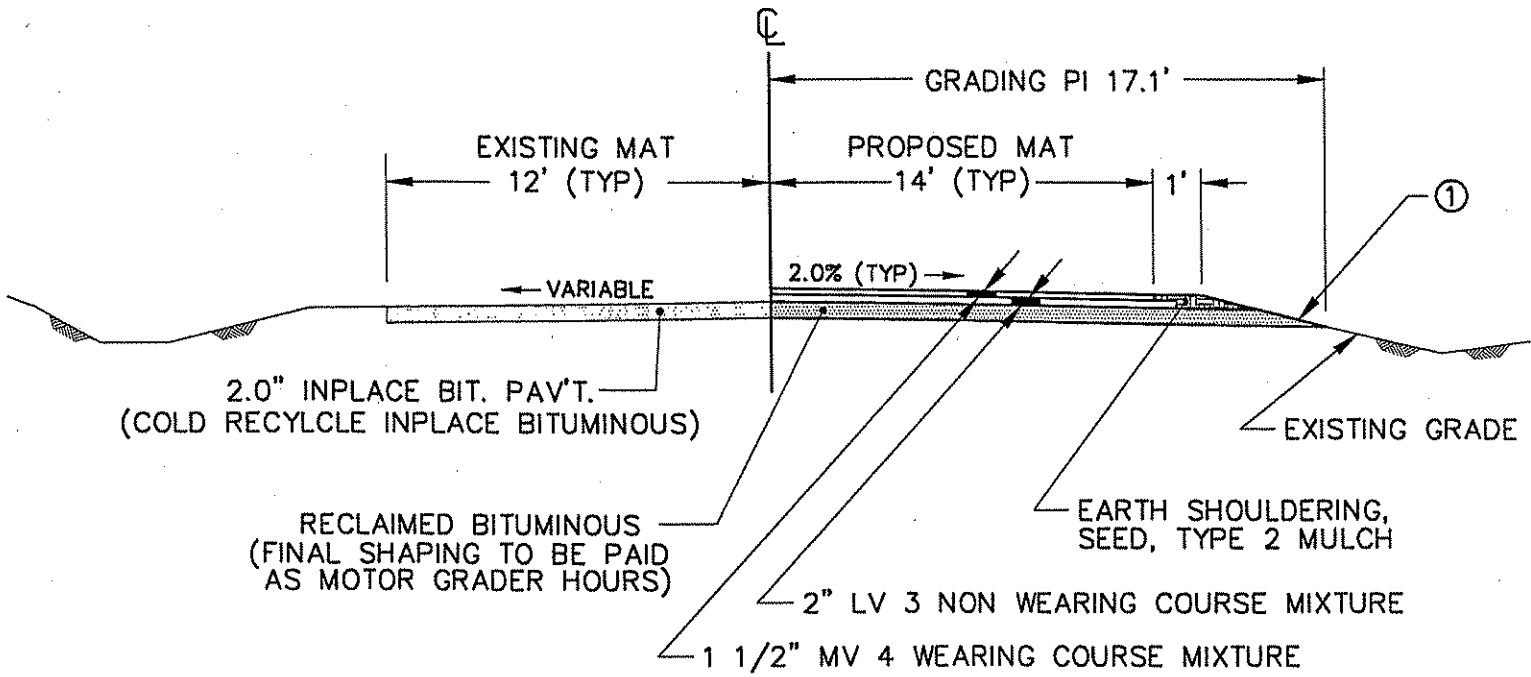
BASIS OF PLANNED QUANTITIES

- 2120 EARTH SHOULDERING: 317 CU.YDS/MILE
- 2350 TYPE MV 4 WEARING COURSE MIX: 110 LBS./SQ.YD. PER 1" THICKNESS
- 2350 TYPE LV 3 NON WEARING COURSE MIX: 120 LBS./SQ.YD. PER 1" THICKNESS.
- 2357 BITUMINOUS MATERIAL FOR TACK COAT: 0.05 GAL./SQ.YD. PER LIFT APPLIED.
- 2575 SEEDING: BASED ON HORIZONTAL MEASUREMENT +10%.
- 2575 SEED MIXTURE 80A: 45 LBS./ACRE.
- 2575 MULCH MATERIAL TYPE 2: 0.18 GAL./SQ.YD.
- 2575 COMMERCIAL FERTILIZER ANAL. 10-10-10 (OR EQUIVALENT): 500 LBS./ACRE.

MN/DOT STANDARD PLATES	
THESE STANDARD PLATES AS APPROVED BY THE FHWA SHALL APPLY.	
PLATE NO.	DESCRIPTION
M0004 A	SPECIFICATION REFERENCE TO STANDARD PLATES
M8000 I	STANDARD BARRICADES

CERTIFIED BY  REG. NO. 25066 DATE 4-5-99
 COUNTY PROJECT 99-11-58 SHEET 2 OF 6 SHEETS

TYPICAL SECTIONS



① STRIP INPLACE TOPSOIL PRIOR TO WIDENING, TO BE PAID AS MOTOR GRADER HOURS.

DESIGN DESIGNATIONS:

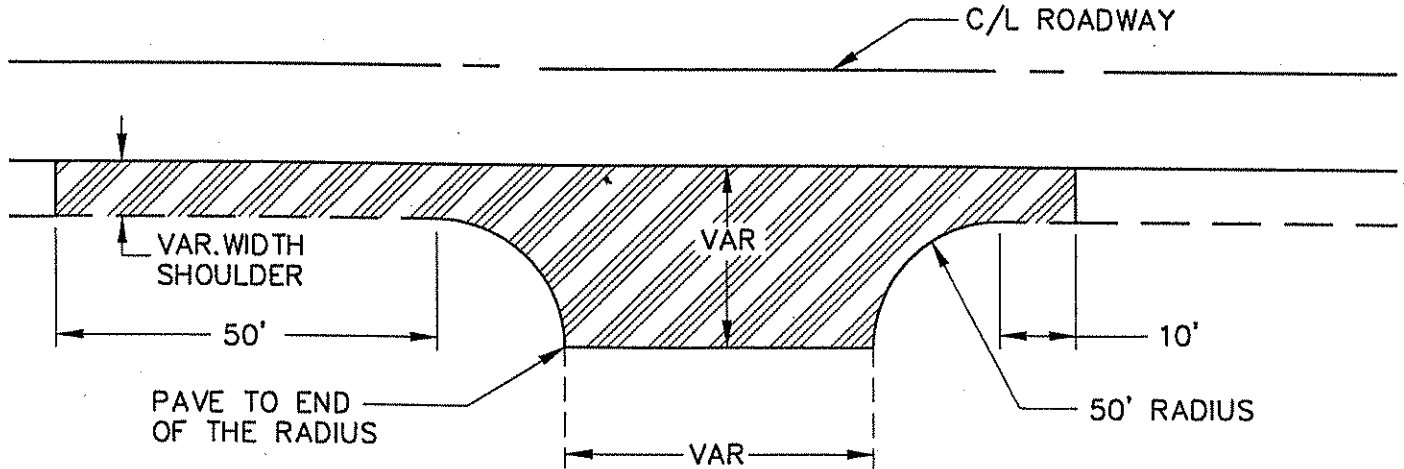
TYPE MV 4 WEARING COURSE MIXTURE: MVWE45035B
 TYPE LV 3 NON WEARING COURSE MIXTURE: LVNW35030B

(NOT TO SCALE)

CERTIFIED BY *[Signature]* REG. NO. 25066 DATE 4-5-99
 COUNTY PROJECT 99-11-58 SHEET 3 OF 6 SHEETS

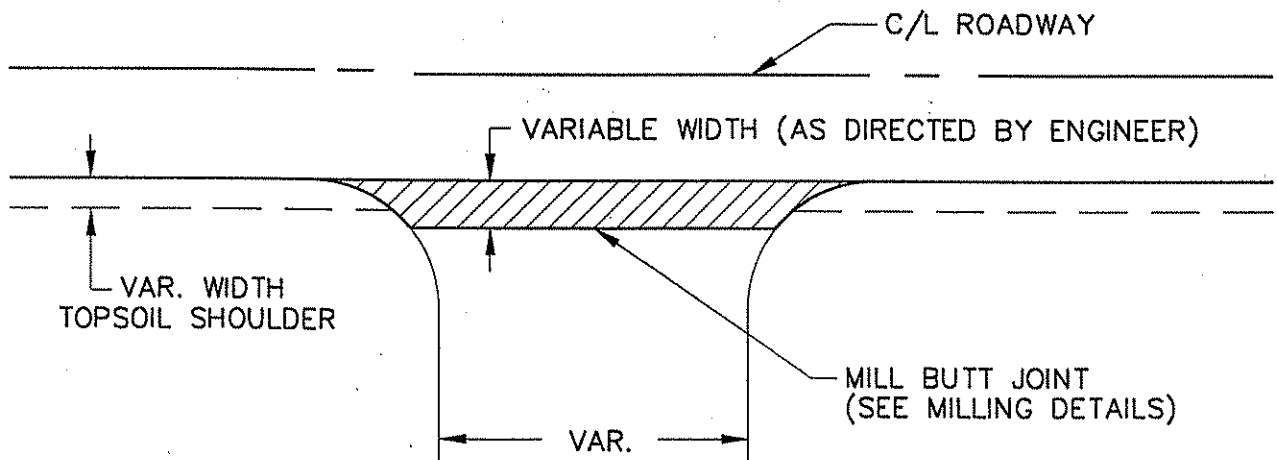
TYPICAL STREET APPROACHES

UNPAVED STREET APPROACHES



NOTE: PAID FOR AS ITEM NO. 2350.604
(TYPE MV 4 WEAR COURSE 2" THICK)

PAVED STREET APPROACHES



NOTE: KICKOUT PAID FOR AS ITEM NO. 2350.609 (TYPE MV 4 WEARING COURSE MIXTURE)/ OR
KICKOUT PAID FOR AS ITEM NO. 2350.604 (TYPE MV 4 WEAR COURSE 1 1/2" THICK)

(NOT TO SCALE)

CERTIFIED BY

REG. NO. 25066

DATE 4-5-99

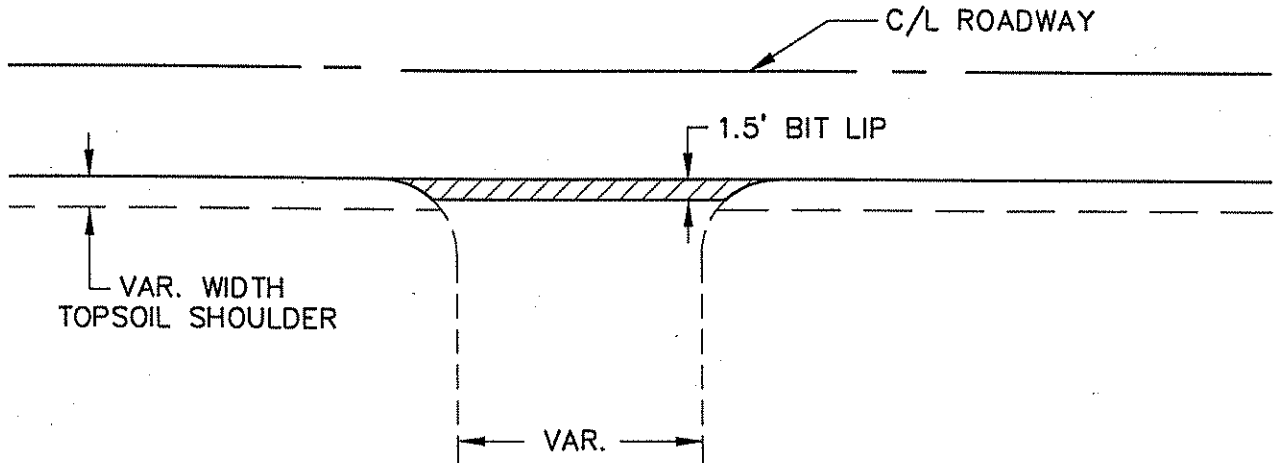
COUNTY PROJECT

99-11-58

SHEET 4 OF 6 SHEETS

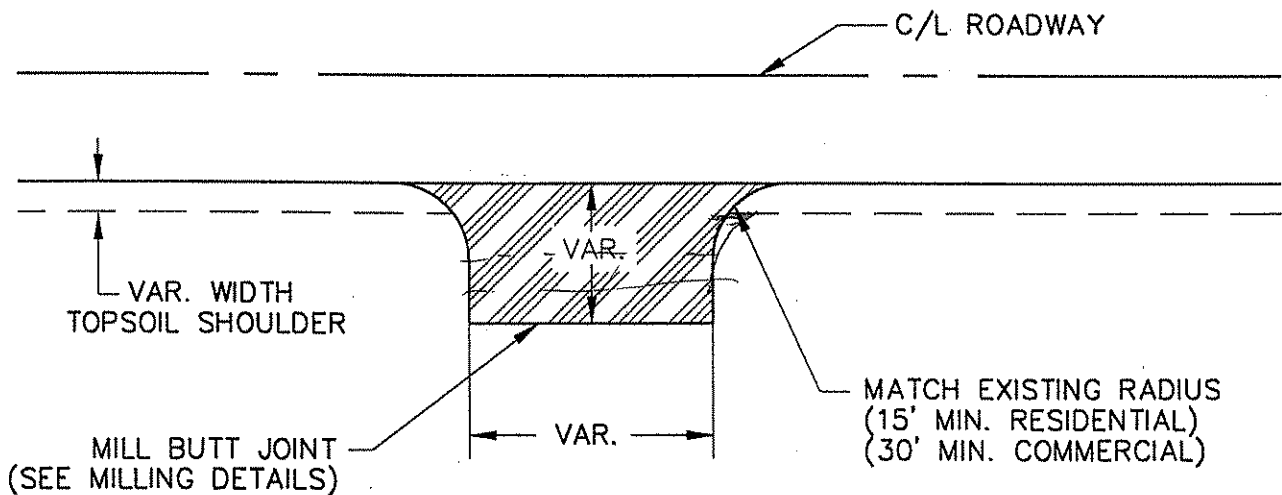
TYPICAL ENTRANCES

UNPAVED DRIVEWAY AND FIELD ENTRANCES



NOTE: KICKOUT PAID FOR AS ITEM NO. 2350.609
(TYPE MV 4 WEARING COURSE MIXTURE)

PAVED ENTRANCES



NOTE: PAID FOR AS ITEM NO. 2350.604
(TYPE MV 4 WEAR COURSE 1 1/2" THICK)

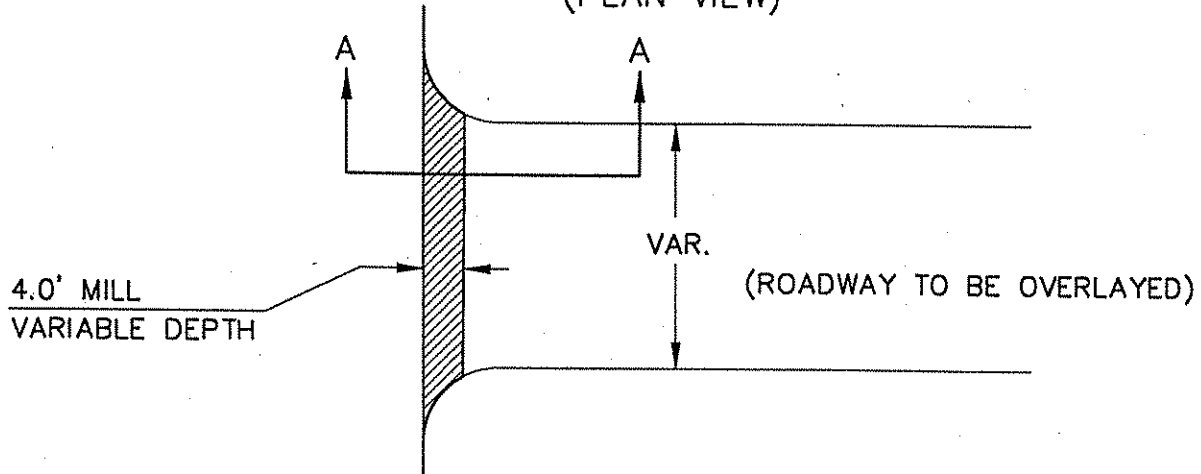
(NOT TO SCALE)

CERTIFIED BY *[Signature]* REG. NO. 25066 DATE 4-5-99
COUNTY PROJECT 99-11-58 SHEET 5 OF 6 SHEETS

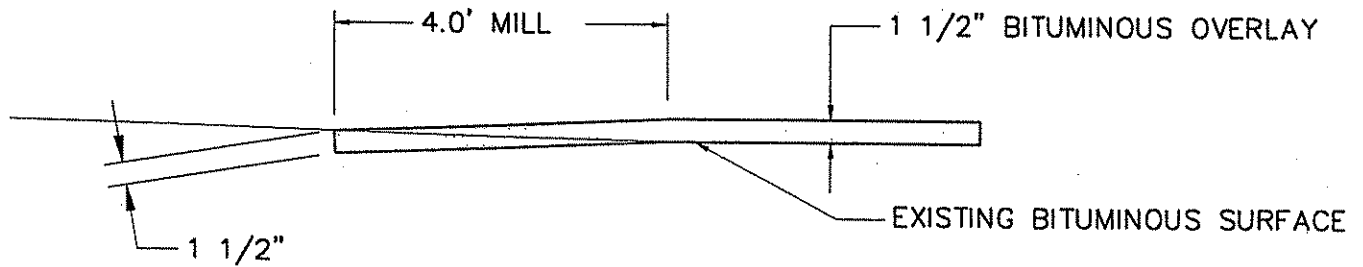
MILLING DETAILS

BUTT JOINTS

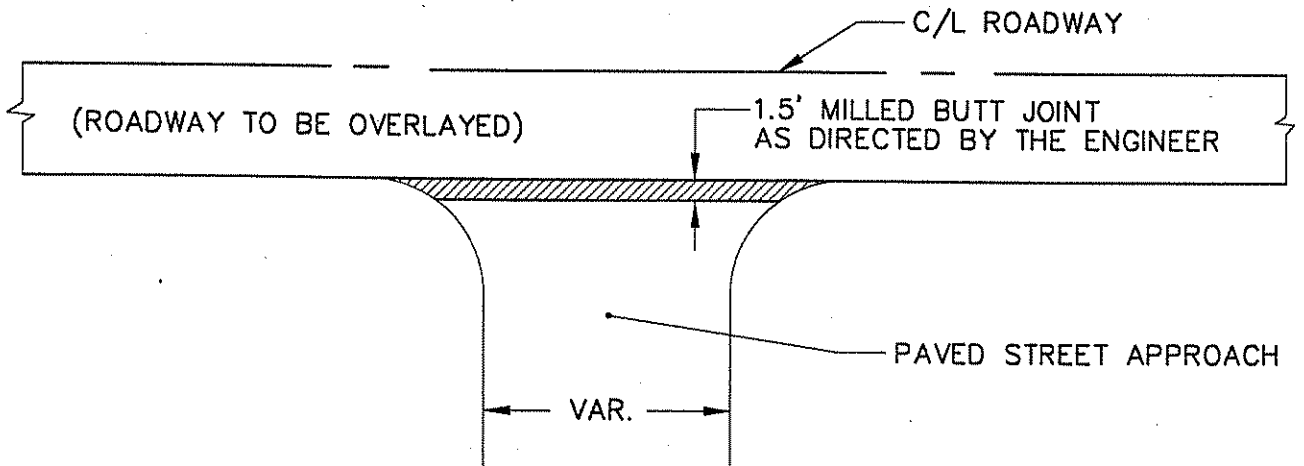
(PLAN VIEW)



(SECTION A-A)



PAVED STREET APPR. & ENTRANCES



(NOT TO SCALE)

CERTIFIED BY

REG. NO. 25066

DATE 4-5-99

COUNTY PROJECT 99-11-58

SHEET 6 OF 6 SHEETS