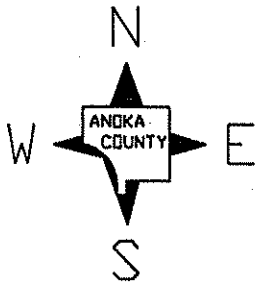


ANDKA COUNTY HIGHWAY DEPARTMENT



CONSTRUCTION PLAN FOR: COLD RECYCLING INPLACE BITUMINOUS & BITUMINOUS SURFACING

COUNTY ROAD NO. C.R. 65

From: C.S.A.H. NO. 22 (VIKING BLVD.)

To: C.S.A.H. NO. 5 (NOWTHEN BLVD.)

From: \_\_\_\_\_

To: \_\_\_\_\_

COUNTY PROJECT NO. 99-09-65

GROSS LENGTH 9313.00 FEET 1.764 MILES

BRIDGES LENGTH 0.00 FEET 0.000 MILES

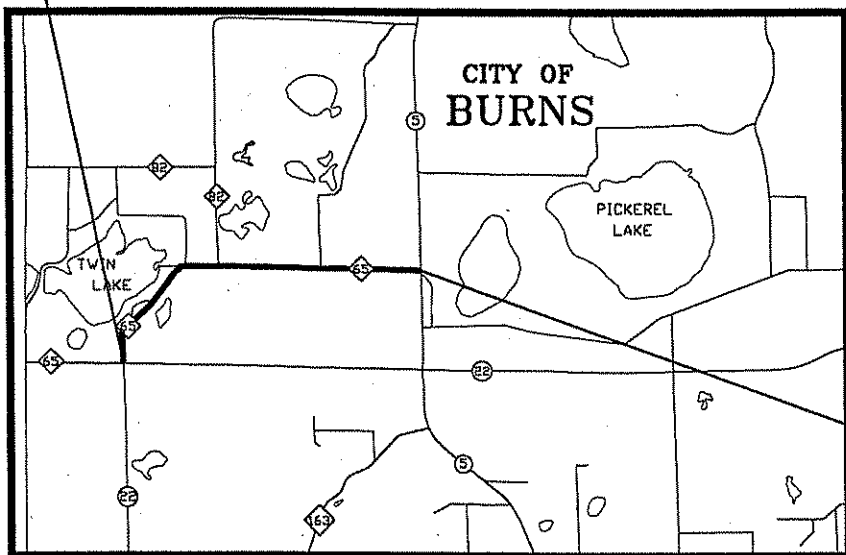
EXCEPTIONS LENGTH 0.00 FEET 0.000 MILES

NET LENGTH 9313.00 FEET 1.764 MILES

BEGIN C.P. 99-09-65

ADT (1997) = 409

7 TON DESIGN



END C.P. 99-09-65

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  
ANDKA 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	11
2104. 511	SAW CONCRETE PAVEMENT	LIN FT	10
2120. 501	EARTH SHOULDERING	CU YD	558
① 2123. 503	MOTOR GRADER	HOUR	35
② 2130. 501	WATER	M-GAL	35
③ 2211. 501	AGGREGATE BASE CLASS 5	TON	196
④ 2232. 501	MILL BITUMINOUS SURFACE	SQ YD	21
2331. 604	COLD RECYCLE INPLACE BITUMINOUS MIXTURE	SQ YD	23800
2350. 604	TYPE MV 4 WEAR COURSE MIX 1 1/2" THICK	SQ YD	298
2350. 604	TYPE MV 4 WEAR COURSE MIX 2" THICK	SQ YD	363
2350. 609	TYPE MV 4 WEARING COURSE MIXTURE	TON	2065
2350. 609	TYPE LV 3 NON WEARING COURSE MIXTURE	TON	3125
2357. 502	BITUMINOUS MATERIAL FOR TACK COAT	GALLON	1317
2540. 602	INSTALL MAIL BOX SUPPORT	EACH	21
2575. 501	SEEDING	ACRE	2. 1
2575. 502	SEED MIXTURE 80A	POUND	95
2575. 512	MULCH MATERIAL TYPE 2	GALLON	512
2575. 532	COMMERCIAL FERTILIZER ANALYSIS 10-10-10	POUND	1058
2580. 501	TEMPORARY LANE MARKING	LIN FT	1490

- 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.

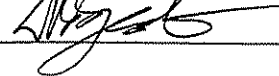
## BASIS OF PLANNED QUANTITIES

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.

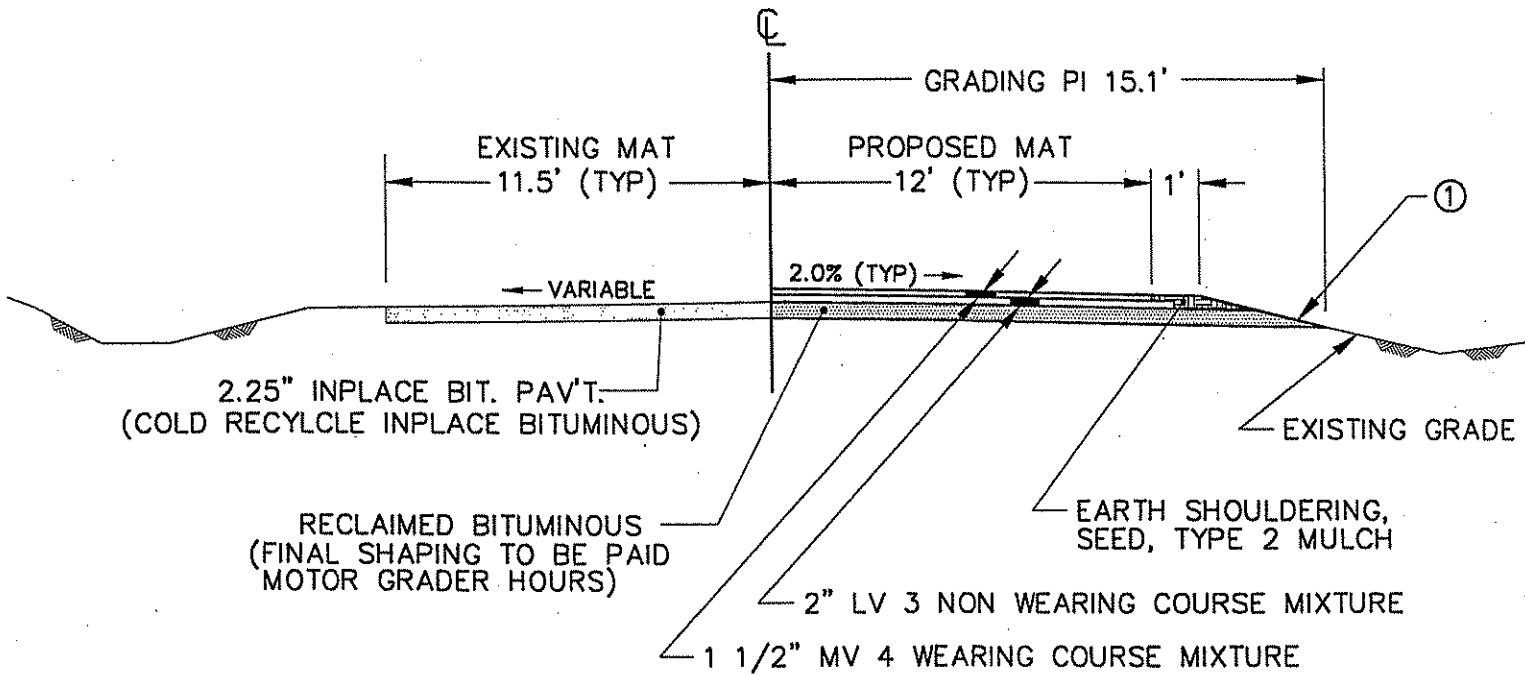
### MN/DOT STANDARD PLATES

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 99-09-65 SHEET 2 OF 6 SHEETS

# TYPICAL SECTIONS



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

## DESIGN DESIGNATIONS:

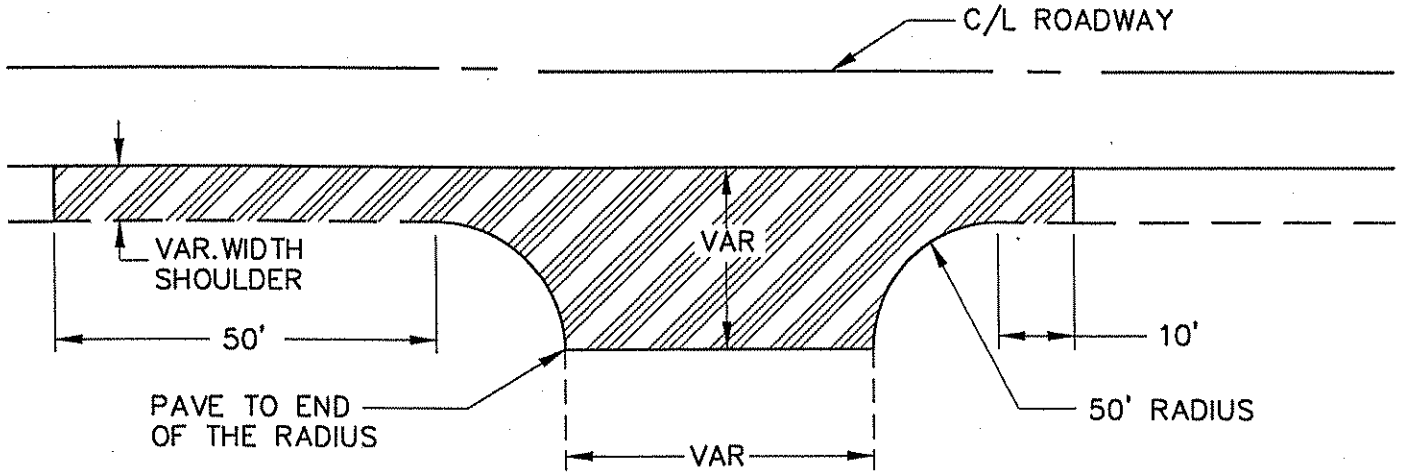
TYPE MV 4 WEARING COURSE MIXTURE: MVWE45035B  
 TYPE LV 3 NON WEARING COURSE MIXTURE: LVNW35030B

(NOT TO SCALE)

CERTIFIED BY *[Signature]* REG. NO. 25086 DATE 4-5-99  
 COUNTY PROJECT 99-09-65 SHEET 3 OF 6 SHEETS

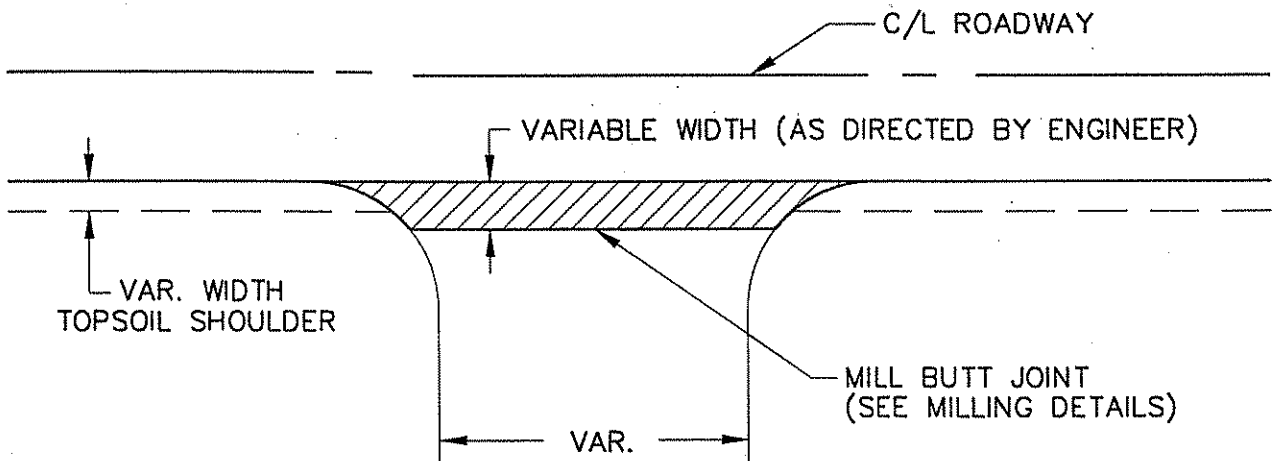
# TYPICAL STREET APPROACHES

## UNPAVED STREET APPROACHES



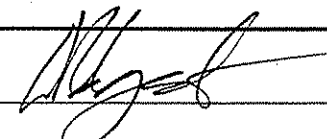
NOTE: PAID FOR AS ITEM NO. 2350.604  
(TYPE MV 4 WEAR COURSE 2" THICK)

## PAVED STREET APPROACHES



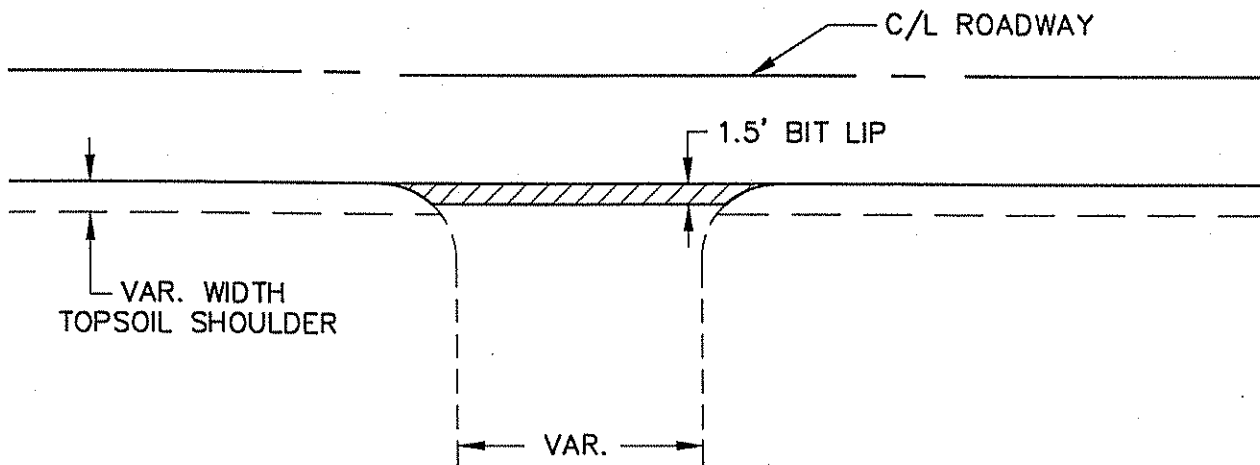
NOTE: KICKOUT PAID FOR AS ITEM NO. 2350.609 (TYPE MV 4 WEARING COURSE MIXTURE)/ OR  
KICKOUT PAID FOR AS ITEM NO. 2350.604 (TYPE MV 4 WEAR COURSE 1 1/2" THICK)

(NOT TO SCALE)

CERTIFIED BY  REG. NO. 25086 DATE 4-5-99  
COUNTY PROJECT 99-09-65 SHEET 4 OF 6 SHEETS

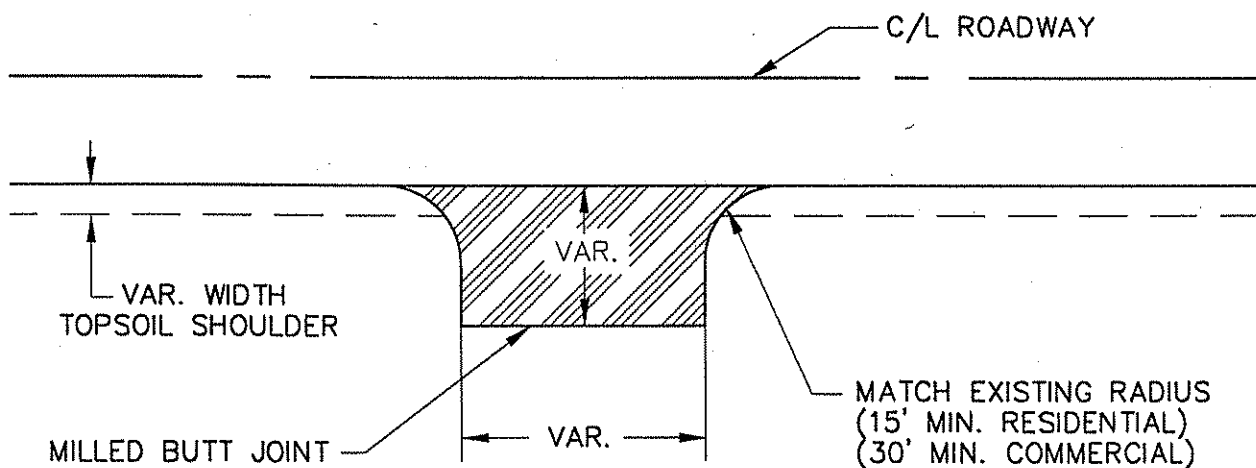
# TYPICAL ENTRANCES

## 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

REG. NO. 25066

DATE 4-5-99

COUNTY PROJECT

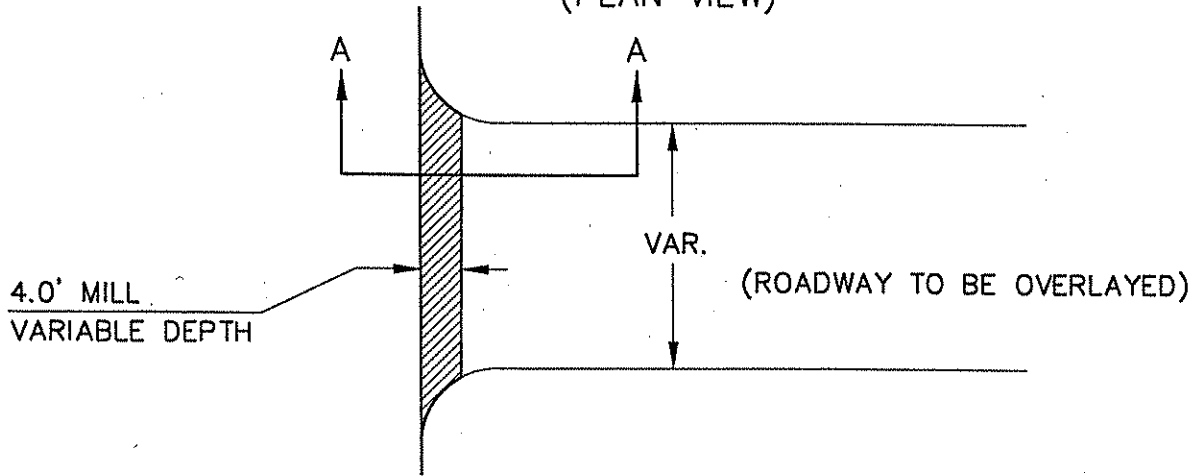
99-09-65

SHEET 5 OF 6 SHEETS

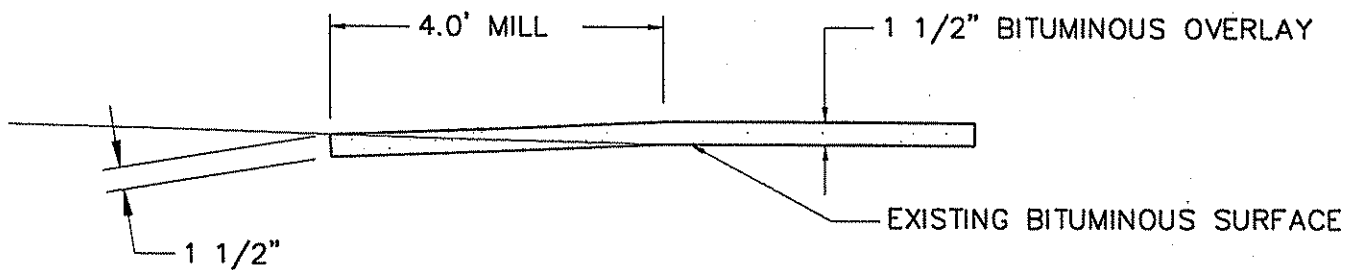
# MILLING DETAILS

## BUTT JOINTS

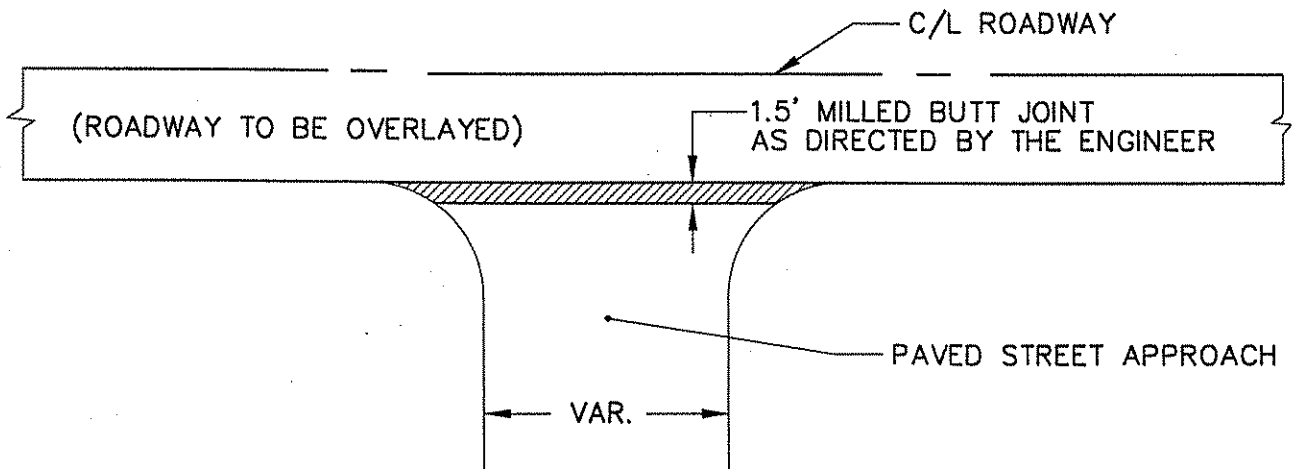
(PLAN VIEW)



(SECTION A-A)



## PAVED STREET APPR. & ENTRANCES



(NOT TO SCALE)

CERTIFIED BY

REG. NO.

25066

DATE

4-5-99

COUNTY PROJECT

99-09-65

SHEET 6 OF 6 SHEETS