

03-01-00

MINN. PROJ. NO. \_\_\_\_\_  
MINN. PROJ. NO. \_\_\_\_\_

# MINNESOTA DEPARTMENT OF TRANSPORTATION

## ANOKA COUNTY

### CONSTRUCTION PLAN FOR BITUMINOUS RECLAMATION, BIT. SURFACING & AGGREGATE SHOULDERING

LOCATED ON CR 77 FROM CR 75 TO CR 36

COUNTY PROJECT NO. 03-06-77  
CR. 77

GROSS LENGTH	8456.00 FEET	1.602 MILES
BRIDGES-LENGTH	31.00 FEET	0.006 MILES
EXCEPTIONS-LENGTH	0.00 FEET	0.000 MILES
NET LENGTH	8456.00 FEET	1.602 MILES

**GOVERNING SPECIFICATIONS**

THE 2000 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MMUTCD, INCLUDING "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS - JANUARY, 2001."

SHEET NO.	INDEX	DESCRIPTION
1	TITLE SHEET	
2	STATEMENT OF ESTIMATED QUANTITIES	
3-4	TABULATION CHARTS	
5	TYPICAL SECTIONS	
6	DETAILS	
7	PLAN VIEW	
8-10	STRIPING PLANS	

THIS PLAN CONTAINS 10 SHEETS

**DESIGN DESIGNATION**

ESAL <sub>20</sub>	46,115
R VALUE	70
ADT (2001) =	320
Proj. ADT (2021) =	480
Proj. HCADT (2021) =	28
Soil Factor	NA
<u>10</u> TON DESIGN	

Functional Classification COLLECTOR  
 No. of Traffic Lanes 2 No. of Parking Lanes 0  
 Design Speed 50 MPH  
 Based on Stopping Sight Distance  
 Height of eye 3.5' Height of object 0.5'  
 Design Speed not achieved at:  
 STA. \_\_\_\_\_ TO STA. \_\_\_\_\_ MPH  
 STA. \_\_\_\_\_ TO STA. \_\_\_\_\_ MPH  
 STA. \_\_\_\_\_ TO STA. \_\_\_\_\_ MPH

Approved 4/29, 2003   
 ANOKA COUNTY ENGINEER

**PLAN SYMBOLS**

- COUNTY LINE
- TOWNSHIP OR RANGE LINE
- SECTION LINE
- QUARTER LINE
- SIXTEENTH LINE
- RIGHT OF WAY LINE
- SLOPE EASEMENT
- EXISTING RIGHT OF WAY
- PROPERTY LINE
- CORPORATE OR CITY LIMITS
- RETAINING WALL
- RAILROAD
- RAILROAD RIGHT OF WAY
- RIVER OR CREEK
- DRAINAGE DITCH
- CULVERT
- DROP INLET
- GUARD RAIL
- BARBED WIRE FENCE
- WOVEN WIRE FENCE
- CHAIN LINK FENCE
- WOOD FENCE
- STONE WALL OR FENCE
- HEDGE

- LOWLAND
- TIMBER
- ORCHARD
- BRUSH
- NURSERY

- CATTLE GUARD
- OVERPASS (Highway Over)
- UNDERPASS (Highway Under)
- BRIDGE

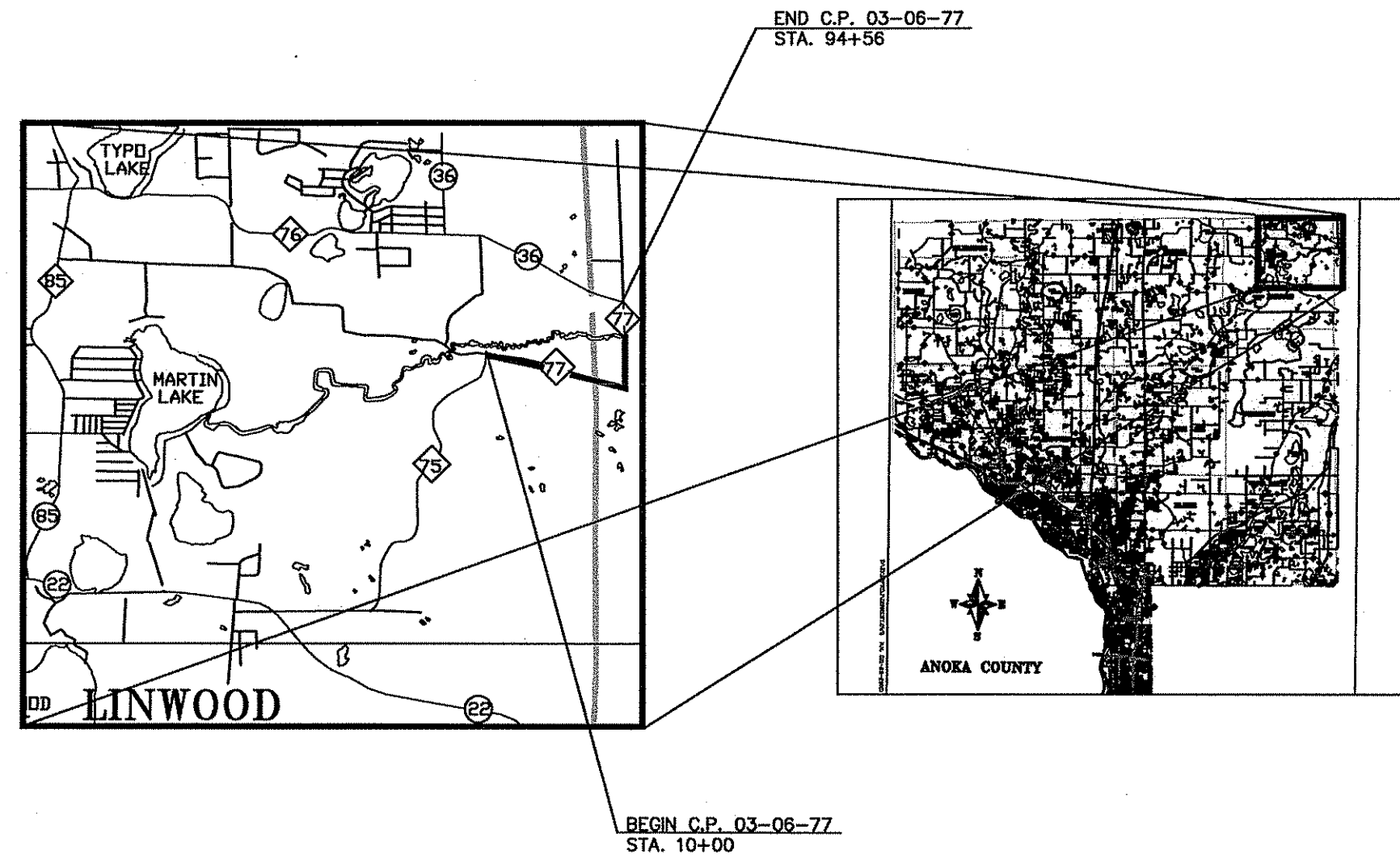
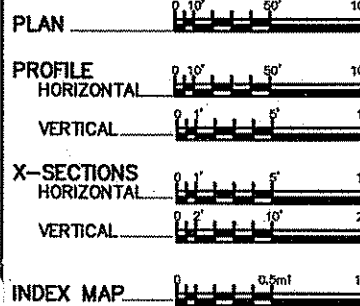
- BUILDING (One Story Frame)
- F-FRAME C-CONCRETE
- S-STONE T-TILE
- B-BRICK ST-STUCCO

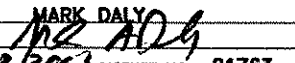

- RAILROAD CROSSING BELL
- RAILROAD CROSSING GATE
- MANHOLE
- CATCH BASIN
- FIRE HYDRANT
- CAST IRON MONUMENT
- IRON PIN
- GRAVEL PIT
- SAND PIT
- BORROW PIT
- ROCK QUARRY

**UTILITY SYMBOLS**

- POWER POLE LINE
- TELEPHONE OR TELEGRAPH POLE LINE
- JOINT TELEPHONE & POWER ON POWER POLES
- ON TELEPHONE POLES
- ANCHOR
- STEEL TOWER
- STREET LIGHT
- PEDESTAL (Cable Terminal)
- GAS MAIN
- WATERMAIN
- TELEPHONE CABLE IN CONDUIT
- ELECTRIC CABLE IN CONDUIT
- TELEPHONE MANHOLE
- ELECTRIC MANHOLE
- BURIED TELEPHONE CABLE
- BURIED ELECTRIC CABLE
- AERIAL TELEPHONE CABLE
- SEWER (Sanitary or Storm)
- SEWER MANHOLE

**SCALES**




I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. PRINT NAME: <u>MARK DALY</u> SIGNATURE:  DATE: <u>4/23/03</u> LICENSE NO. <u>21763</u>	DRAWN BY: <u>J.F.</u> DATE: <u>4/1/03</u> DESIGN BY: <u>G.A.</u> DATE: <u>4/1/03</u> CHECKED BY: _____ DATE: _____	 <b>ANOKA COUNTY HIGHWAY DEPT.</b>	STATE PROJECT NO. _____ STATE AID PROJECT NO. _____ STATE AID PROJECT NO. _____ COUNTY PROJECT NO. <u>03-06-77</u>	<b>TITLE SHEET</b>  Sheet <u>1</u> of <u>10</u> Sheets
NO. _____ DATE _____ BY _____ CKD _____ APPR _____ REVISION _____ NAME: S:\SDSKPRO\02-000-00\PLAN\01-TITLE.DWG				

A. STATEMENT OF ESTIMATED QUANTITIES					
TAB. NO.	ITEM NO.	ITEM	NOTE NO.	UNIT	ESTIMATED QUANTITY
	2021.501	MOBILIZATION		LUMP SUM	1.00
I	2104.503	REMOVE CONCRETE DRIVEWAY PAVEMENT	3	SQ YD	14.00
K	2104.511	SAWING CONCRETE PAVEMENT (FULL DEPTH)		LIN FT	12.00
	2123.503	MOTOR GRADER	6	HOUR	16.00
	2123.521	PNEUMATIC-TIRED ROLLER	6	HOUR	16.00
	2130.501	WATER	7	M-GAL	220.00
M	2211.501	AGGREGATE BASE CLASS-5	2	TON	105.00
L	2221.501	AGGREGATE SHOULDERING CLASS-7B	2	TON	845.00
H	2232.501	MILL BITUMINOUS SURFACE ( FULL DEPTH )	4	SQ YD	75.00
D	2331.604	BITUMINOUS PAVEMENT RECLAMATION		SQ YD	26308.00
E	2350.609	TYPE LV 3 WEARING COURSE MIXTURE	1	TON	2185.00
F	2350.609	TYPE LV 3 NON-WEARING COURSE MIXTURE	1	TON	2925.00
G	2357.502	BITUMINOUS MATERIAL FOR TACK COAT		GALLON	1180.00
J	2531.507	6" CONCRETE DRIVEWAY PAVEMENT		SQ YD	14.00
O	2540.602	INSTALL MAILBOX SUPPORT		EACH	12.00
	2563.601	TRAFFIC CONTROL		LUMP SUM	1.00
	2563.604	CONSTRUCTION SIGN SPECIAL (DIAMOND GRADE)	5	SQ FT	112.00
P	2564.603	4" SOLID LINE WHITE-EPOXY		LIN FT	16611.00
P	2564.603	4" SOLID LINE YELLOW-EPOXY		LIN FT	4055.00
P	2564.603	4" BROKEN LINE YELLOW-EPOXY		LIN FT	1540.00
P	2564.603	4" DOUBLE SOLID LINE YELLOW-EPOXY		LIN FT	665.00
N	2580.501	TEMPORARY LANE MARKING		LIN FT	1352.00

C. CONSTRUCTION NOTES	
NOTE NO.	
1	INCLUDES QUANTITY FOR ADDING 1/4" TO THE DESIGN THICKNESS.
2	RECYCLED GLASS WILL NOT BE ALLOWED IN CL-5 & CL-7B.
3	AS DIRECTED BY THE ENGINEER.
4	FOR REMOVAL OF THE BITUMINOUS SURFACING FROM THE TIMBER BRIDGE DECK.
5	2 - 8' X 7' SIGNS, SEE SPECIAL PROVISIONS.
6	FOR FINAL SHAPING AND COMPACTION OF RECLAIMED MATERIAL.
7	FOR DUST CONTROL AS DIRECTED BY THE ENGINEER.

B. BASIS OF QUANTITIES	
SPEC NO.	RATE
2350	TYPE LV 3 WEARING COURSE MIXTURE (LVWE35030C) TYPE LV 3 NON WEARING COURSE MIXTURE, (LVNW35030C) (110LBS/IN/SY)
2357	BITUMINOUS MATERIAL FOR TACK COAT 0.05 GAL / SQ YD / PER LIFT APPLIED

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NO	DATE	BY	CHKD	APPR	REVISION							

D. RECLAIM BITUMINOUS SURFACING					
	STA.	STA.	L'	W'	SQ. YDS.
C/L	1000	9456	8456	27	25368.0
					25368.0

E. TYPE LV3 WEARING COURSE MAIN LINE 1.75" (110LBS/IN/SY)					
	STA.	STA.	L'	W'	SQ. YDS.
C/L	1000	9456	8456.0	24.0	22549.3
1.5' KICK OUTS					
		LOC			
1)	HSE. # 9061	LT.	33	1.5	5.5
2)	HSE. # 9107	LT.	39	1.5	6.5
3)	HSE. # 9140	RT.	35	1.5	5.8
4)	HSE. # 9245	LT.	32	1.5	5.3
5)	HSE. # 9351	LT.	41	1.5	6.8
6)	HSE. # 9445	LT.	45	1.5	7.5
7)	HSE. # 9501	LT.	35	1.5	5.8
8)	HSE. # UNKNOWN	RT.	58	1.5	9.7
9)	HSE. # 23358	LT.	32	1.5	5.3
10)	HSE. # 23456	LT.	36	1.5	6.0
11)	HSE. # 23506	LT.	38	1.5	6.3
12)	FIELD ENT. WIDTH 20'+	LT.	38	1.5	6.3
13)	FIELD ENT. WIDTH 20'+	LT.	32	1.5	5.3
14)	FIELD ENT. WIDTH 20'+	LT.	32	1.5	5.3
15)	FIELD ENT. WIDTH 20'+	LT.	41	1.5	6.8
16)	FIELD ENT. WIDTH 20'+	RT.	41	1.5	6.8
17)	FIELD ENT. WIDTH 20'+	RT.	32	1.5	5.3
18)	FIELD ENT. WIDTH 20'+	LT.	40	1.5	6.7
19)	FIELD ENT. WIDTH 20'+	LT.	34	1.5	5.7
20)	FIELD ENT. WIDTH 20'+	LT.	36	1.5	6.0
21)	FIELD ENT. WIDTH 20'+	RT.	34	1.5	5.7
					SQ. YDS. = 22680.0
					TONS = 2183.0

F. TYPE LV3 NON WEARING CORSE MAIN LINE 2.25" (110LBS/IN/SY)					
	STA.	STA.	L'	W'	SQ. YDS.
C/L	1000	9456	8456.0	25.0	23488.9
1.5' KICK OUTS					
		LOC			
1)	HSE. # 9061	LT.	33	1.5	5.5
2)	HSE. # 9107	LT.	39	1.5	6.5
3)	HSE. # 9140	RT.	35	1.5	5.8
4)	HSE. # 9245	LT.	32	1.5	5.3
5)	HSE. # 9351	LT.	41	1.5	6.8
6)	HSE. # 9445	LT.	45	1.5	7.5
7)	HSE. # 9501	LT.	35	1.5	5.8
8)	HSE. # UNKNOWN	RT.	58	1.5	9.7
9)	HSE. # 23358	LT.	32	1.5	5.3
10)	HSE. # 23456	LT.	36	1.5	6.0
11)	HSE. # 23506	LT.	38	1.5	6.3
12)	FIELD ENT. WIDTH 20'+	LT.	38	1.5	6.3
13)	FIELD ENT. WIDTH 20'+	LT.	32	1.5	5.3
14)	FIELD ENT. WIDTH 20'+	LT.	32	1.5	5.3
15)	FIELD ENT. WIDTH 20'+	LT.	41	1.5	6.8
16)	FIELD ENT. WIDTH 20'+	RT.	41	1.5	6.8
17)	FIELD ENT. WIDTH 20'+	RT.	32	1.5	5.3
18)	FIELD ENT. WIDTH 20'+	LT.	40	1.5	6.7
19)	FIELD ENT. WIDTH 20'+	LT.	34	1.5	5.7
20)	FIELD ENT. WIDTH 20'+	LT.	36	1.5	6.0
21)	FIELD ENT. WIDTH 20'+	RT.	34	1.5	5.7
					SQ. YDS. = 23618.9
					TONS = 2923.0

G. BITUMINOUS MATERIAL FOR TACK			
	SQ YDS	GAL / SQ YD	GALLONS
LV3 WEAR MAIN LINE	23619.0	0.05	1181.0
			TOTAL GALLONS 1181.0

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ANOKA COUNTY  
 HIGHWAY DEPT.

STATE PROJECT NO. \_\_\_\_\_  
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 COUNTY PROJECT NO. 03-06-77

TABULATION CHARTS  
 Sheet 3 of 10 Sheets

NO	DATE	BY	CHKD	APPR	REVISION

NAME: S:\SDSKPROJ\000000\000000\026000.DWG

H. MILL BITUMINOUS SURFACE (TIMBER BR. DECK)					
	LOC	L'	W'	SQ. YDS.	
		31	21.6	74.4	
				SQ. YDS. = 74.4	

I. REMOVE CONCRETE DRIVEWAY PAVEMENT					
ADDR.#	LOC	L'	W'	SQ. YDS.	
9642/9650	RT.	12	10	13.3	
				SQ. YDS. = 13.3	

J. 6" CONC. DRIVEWAY PAVEMENT (FULL DEPTH)					
ADDR.#	LOC	L'	W'	SQ. YDS.	
9642/9650	RT.	12	10	13.3	
				SQ. YDS. = 13.3	

K. SAWING CONCRETE PAVEMENT (FULL DEPTH)					
ADDR.#	LOC	L'		LIN. FT.	
9642/9650	RT.	12		12.0	
				LIN FT. = 12.0	

L. AGGR. SHLD CL-7B/C (2' SHLD. 3.5" DEPTH= CU. YDS. (CV)/STATION)						
LOC.	STA.	STA.	L-IN STA.	DEPTH	CU. YDS./STA.	CU. YDS. (CV)
LT	1000	9456	84.3	3.5"	2.78	234.2
RT	1000	9456	84.3	3.5"	2.78	234.2
					CU. YDS. = 468.4 (CV)	
					TONS 843.2	

M. AGGREGATE BASE CLASS 5			
AGGR. DR.		LOC.	TON
1)	HSE. # 9061	LT.	5
2)	HSE. # 9107	LT.	5
3)	HSE. # 9140	RT.	5
4)	HSE. # 9245	LT.	5
5)	HSE. # 9351	LT.	5
6)	HSE. # 9445	LT.	5
7)	HSE. # 9501	LT.	5
8)	HSE. # UNKNOWN	RT.	5
9)	HSE. # 23358	LT.	5
10)	HSE. # 23456	LT.	5
11)	HSE. # 23506	LT.	5
12)	FIELD ENT. WIDTH 20'+	LT.	5
13)	FIELD ENT. WIDTH 20'+	LT.	5
14)	FIELD ENT. WIDTH 20'+	LT.	5
15)	FIELD ENT. WIDTH 20'+	LT.	5
16)	FIELD ENT. WIDTH 20'+	RT.	5
17)	FIELD ENT. WIDTH 20'+	RT.	5
18)	FIELD ENT. WIDTH 20'+	LT.	5
19)	FIELD ENT. WIDTH 20'+	LT.	5
20)	FIELD ENT. WIDTH 20'+	LT.	5
21)	FIELD ENT. WIDTH 20'+	RT.	5
			TONS = 105.0

O. MAIL BOX SUPPORTS		
	ADDR.	LOC.
1)	HSE. # 9061	RT.
2)	HSE. # 9107	RT.
3)	HSE. # 9140	RT.
4)	HSE. # 9245	RT.
5)	HSE. # 9351	RT.
6)	HSE. # 9445	RT.
7)	HSE. # 9501	RT.
8)	HSE. # 9642	RT.
9)	HSE. # 9650	RT.
10)	HSE. # 23358	RT.
11)	HSE. # 23456	RT.
12)	HSE. # 23526	RT.
		TOTAL = 12.0

P. PERMANENT STRIPING		
	LINE TYPE	LIN. FT.
	4" SOLID LINE WHITE-EPOXY	16611
	4" SOLID LINE YELLOW-EPOXY	4055
	4" BROKEN LINE YELLOW-EPOXY	1540
	4" DOUBLE LINE YELLOW-EPOXY	665

N. TEMPORARY LANE MARKING (4'/50'/LIFT)						
STA.	STA.	LOC.	LENGTH	TAPE LENGTH	LIFTS	LIN. FT.
1000	9456	C/L	8456	676.0	2	1352.0
					LIN. FT. = 1352.0	

NO	DATE	BY	CHKD	APPR	REVISION

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PRINT NAME: MARK DALY

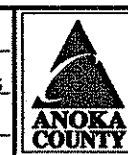
SIGNATURE: [Signature]

DATE: 4/23/03 LICENSE NO. 21763

DRAWN BY: J.E. DATE: 4/1/03

DESIGN BY: G.A. DATE: 4/1/03

CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_



**ANOKA COUNTY**  
**HIGHWAY DEPT.**

STATE PROJECT NO. \_\_\_\_\_

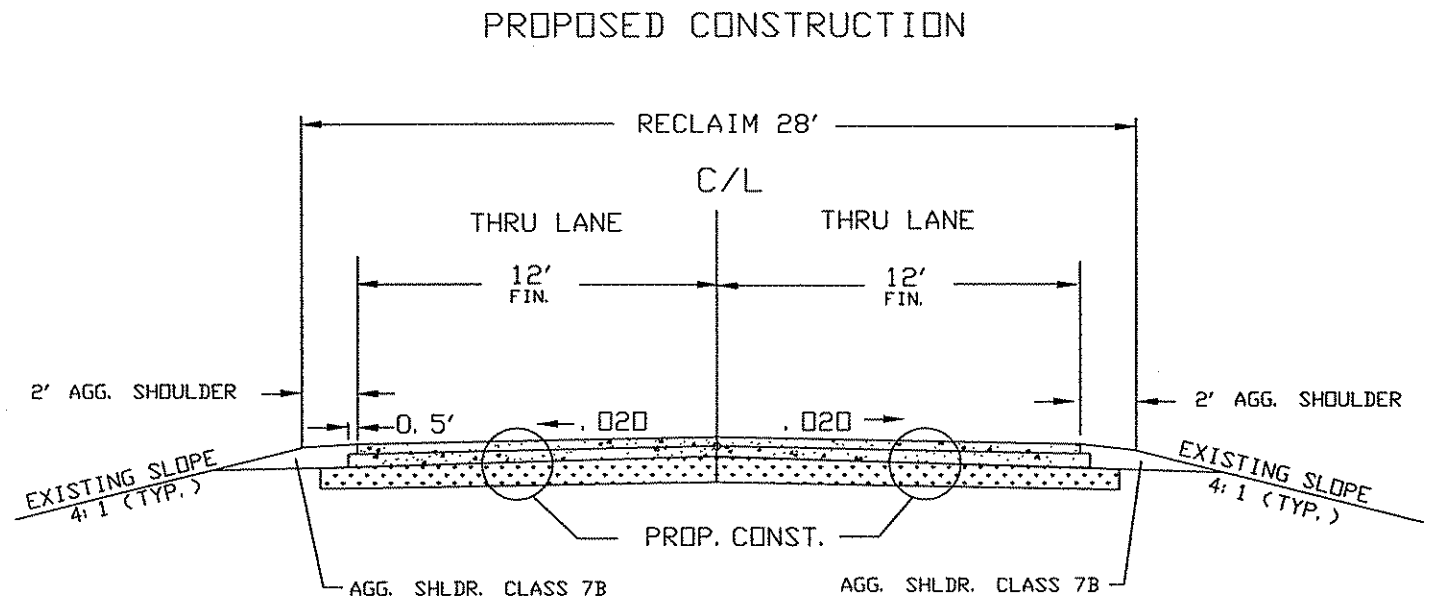
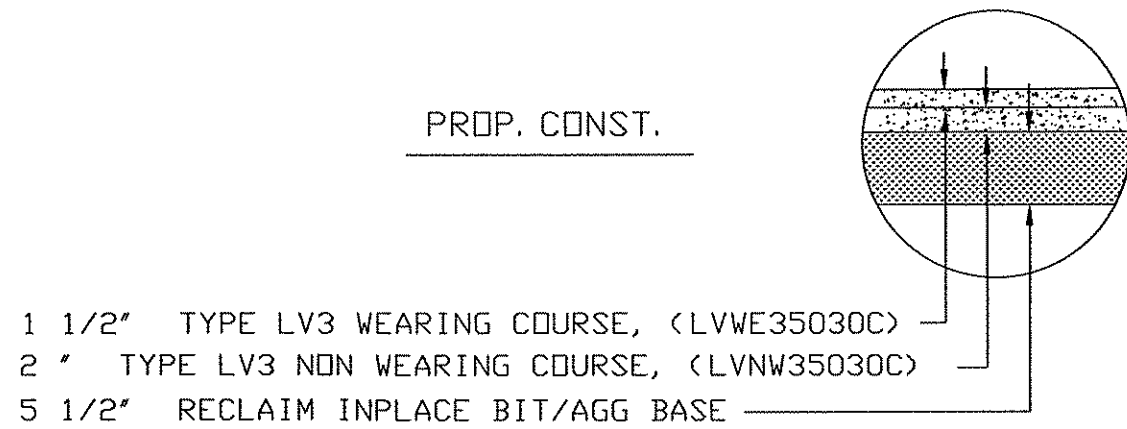
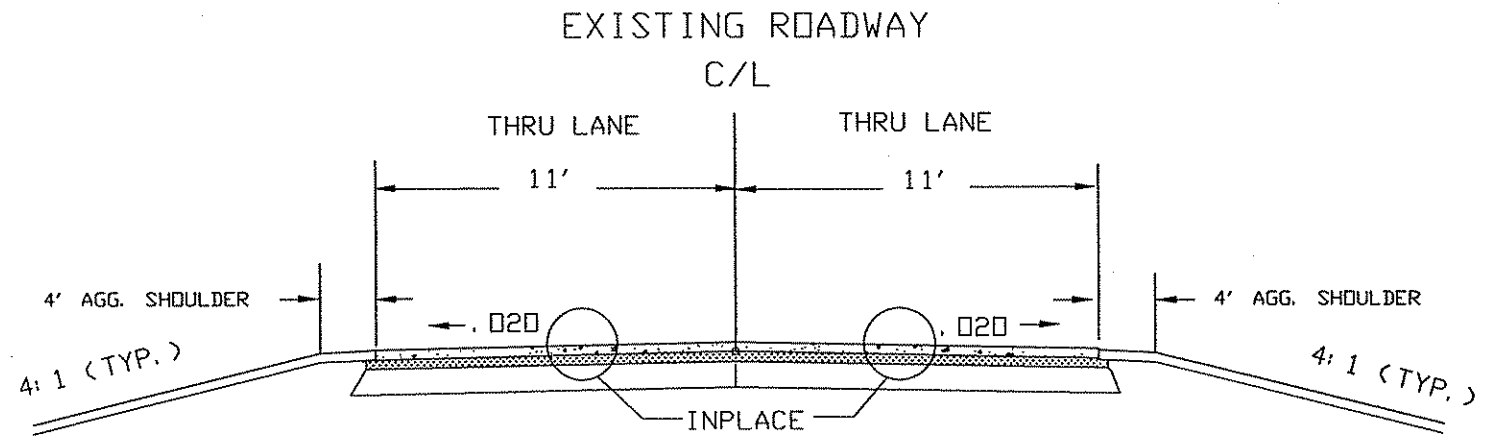
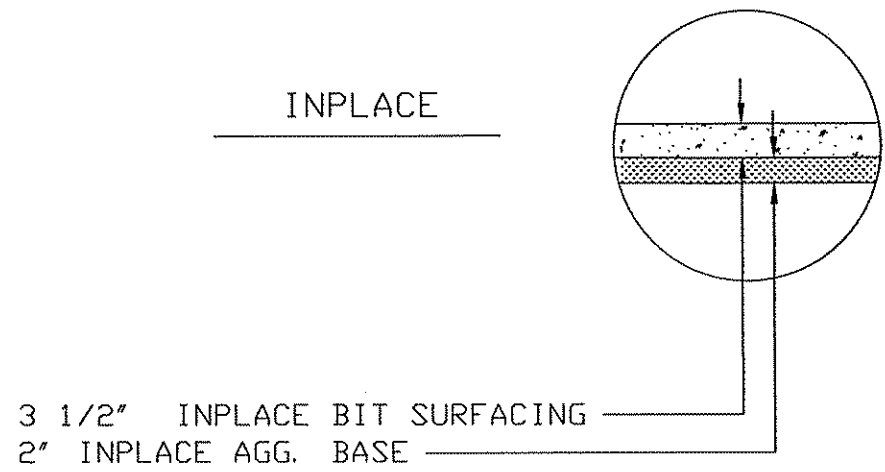
STATE AID PROJECT NO. \_\_\_\_\_

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COUNTY PROJECT NO. 03-06-77

TABULATION CHARTS

Sheet 4 of 10 Sheets



NO	DATE	BY	CHKD	APPR	REVISION

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SIGNATURE: *Mark Daly*  
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**ANOKA COUNTY  
HIGHWAY DEPT.**

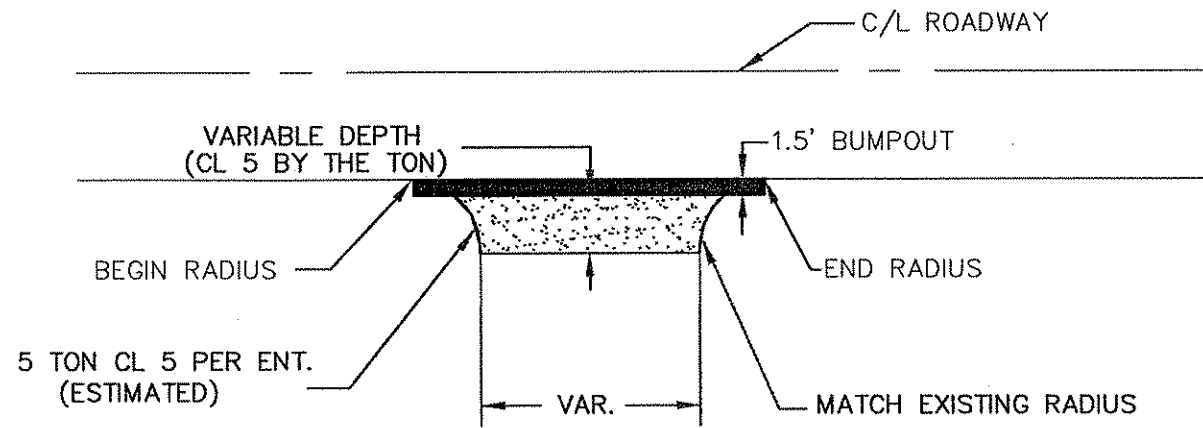
STATE PROJECT NO. \_\_\_\_\_  
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COUNTY PROJECT NO. **03-06-77**

**TYPICAL SECTION**

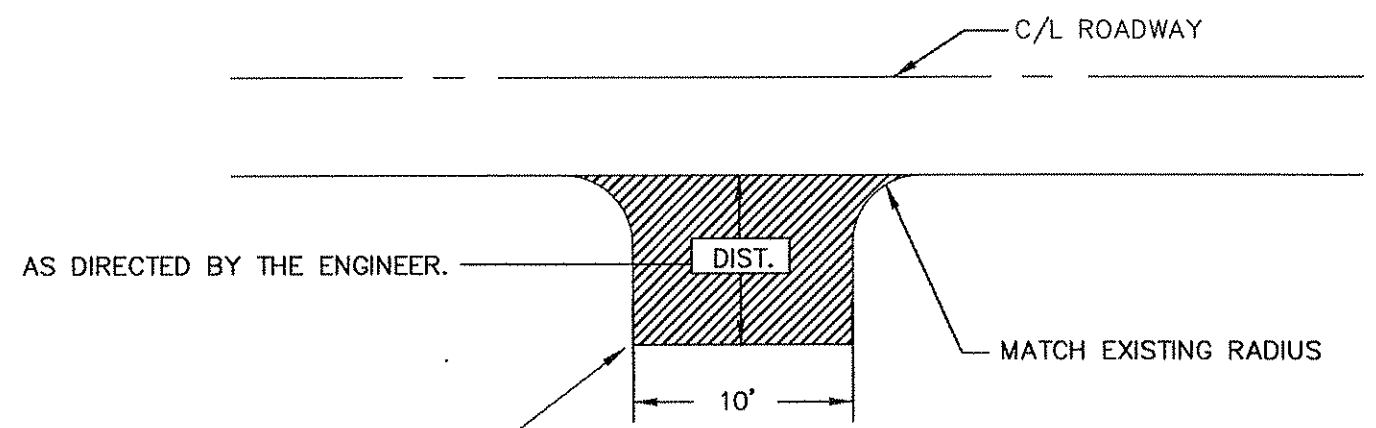
Sheet **5** of **10** Sheets

FIELD AND UNPAVED ENTRANCES

CONCRETE ENTRANCE H-#9642/9650

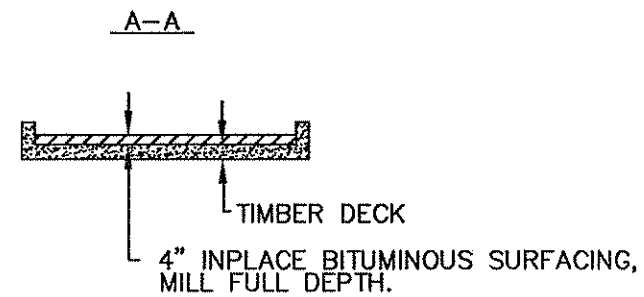
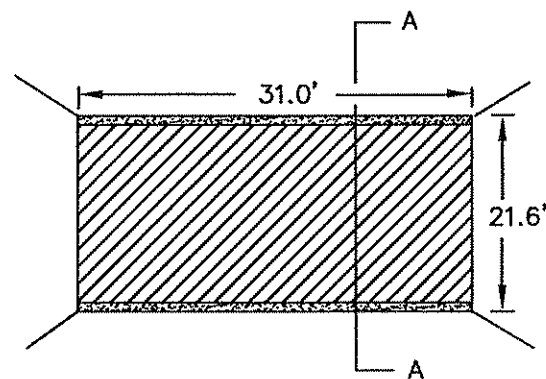


NOTE: PAID FOR AS ITEM NO. 2211.501  
(AGGREGATE BASE CL 5 (TON))



SAWCUT/REMOVE/REPLACE CONCRETE  
10'X12'X6" = 13.3 YDS.

BRIDGE DECK MILLING DETAILS



NO	DATE	BY	CKD	APPR	REVISION

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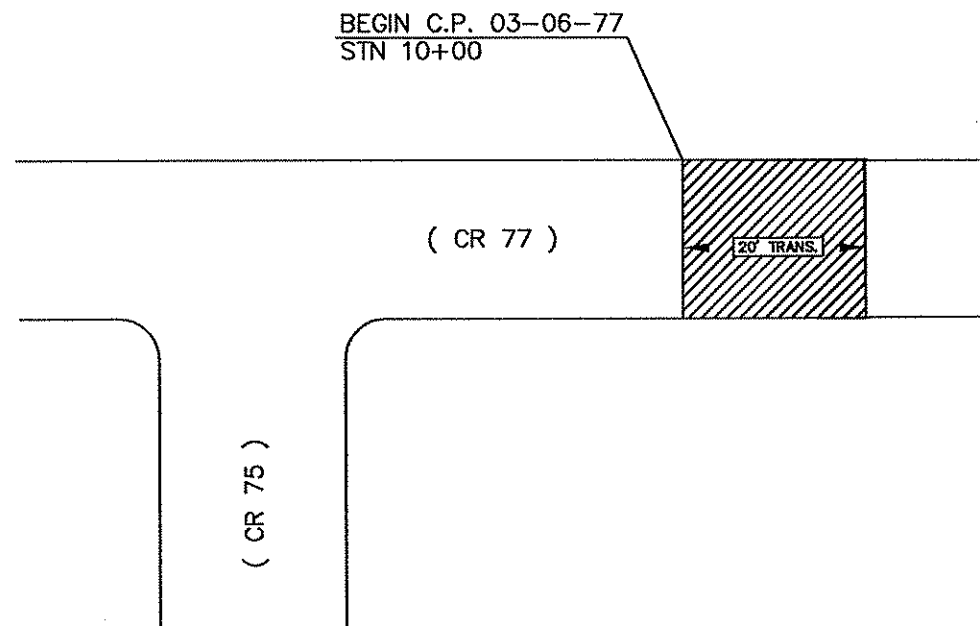


ANOKA COUNTY  
HIGHWAY DEPT.

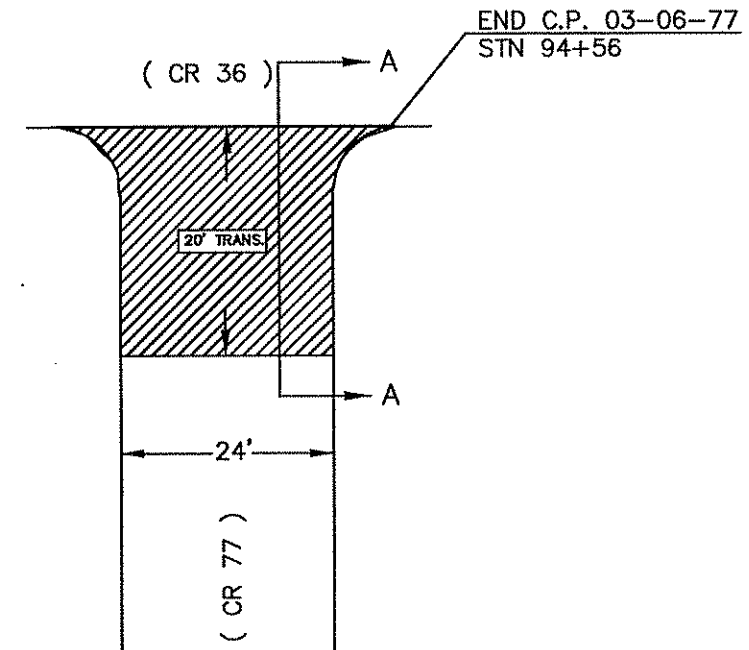
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 COUNTY PROJECT NO. 03-06-77

DETAILS  
 Sheet 6 of 10 Sheets

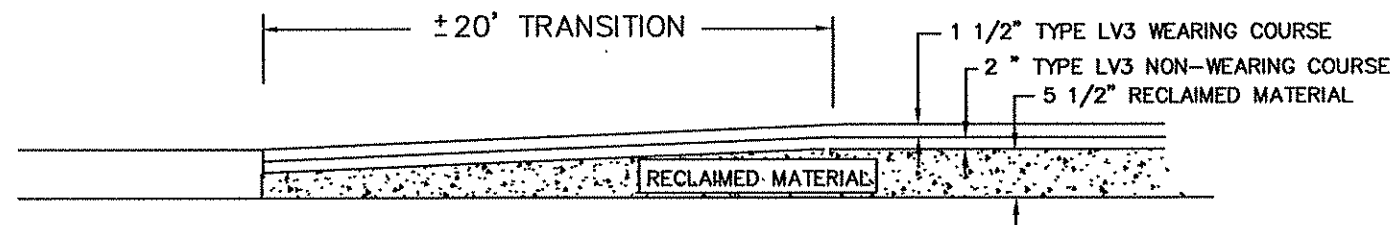
JOINT DETAILS  
(PLAN VIEW)



JOINT DETAILS  
(PLAN VIEW)



TRANSITIONS @ C.R. 75 & C.R. 36



\* NOTE- GRADING OF RECLAIMED MATERIAL FOR TRANSITIONS TO BE PAID UNDER 2123.503 MOTOR GRADER ( HOUR ).

NO	DATE	BY	CHKD	APPR	REVISION

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 STATE AID PROJECT NO. \_\_\_\_\_  
 STATE AID PROJECT NO. \_\_\_\_\_  
 COUNTY PROJECT NO. **03-06-77**

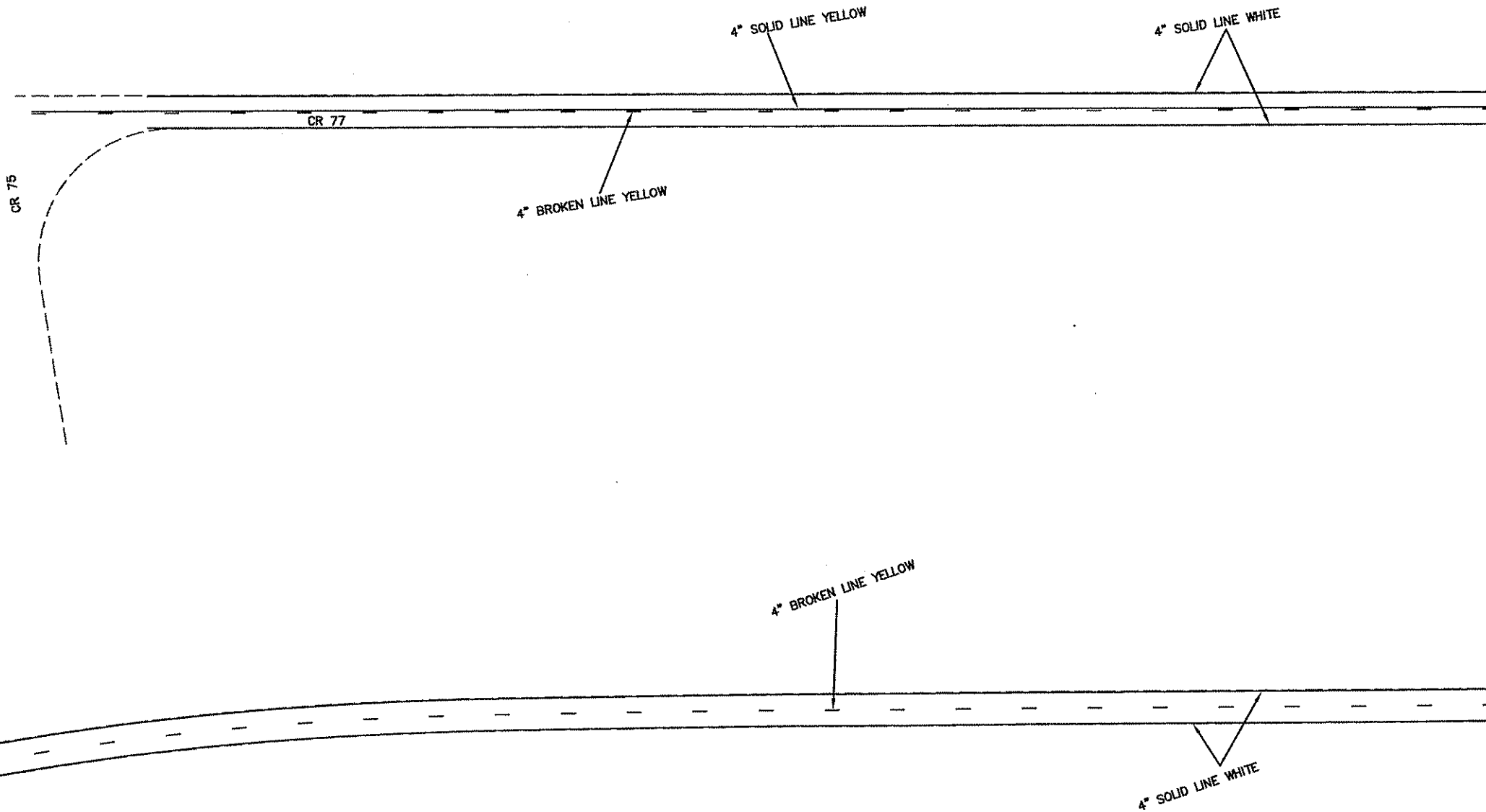
PLAN VIEW

Sheet **7** of **10** Sheets

MATCHLINE 'A' SEE ABOVE RIGHT

MATCHLINE 'A' SEE BELOW LEFT

MATCHLINE 'B' SEE SHEET 9 of 10



665' 4" DOUBLE SOLID LINE YELLOW - EPOXY  
 4055' 4" SOLID LINE YELLOW - EPOXY  
 16611' 4" SOLID LINE WHITE - EPOXY  
 1540' 4" BROKEN LINE YELLOW - EPOXY

C.R. 77 RYAN LAKE DRIVE  
 FROM C.R. 75 to C.S.A.H. 36

NO	DATE	BY	CKD	APPR	REVISION

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.  
 PRINT NAME: MARK DAILY  
 SIGNATURE: [Signature]  
 DATE: 9/23/03 LICENSE NO. 21763

DRAWN BY: ST DATE: 04/22/03  
 DESIGN BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_



ANOKA COUNTY  
 HIGHWAY DEPT.

STATE PROJECT NO. \_\_\_\_\_  
 STATE AID PROJECT NO. \_\_\_\_\_  
 STATE AID PROJECT NO. \_\_\_\_\_  
 COUNTY PROJECT NO. 03-06-77

PERMANENT STRIPING

Sheet 8 of 10 Sheets

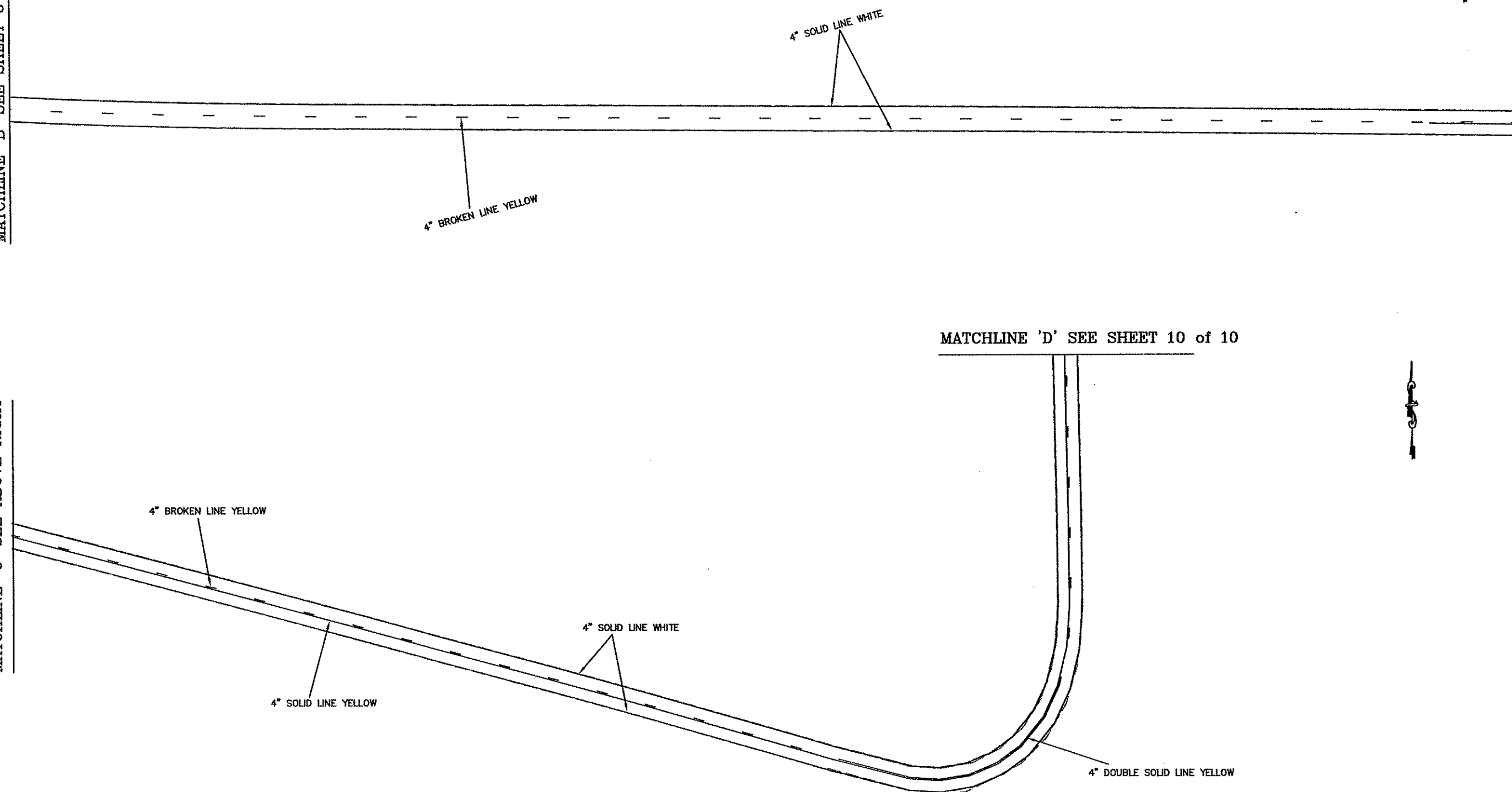


MATCHLINE 'B' SEE SHEET 8 of 10

MATCHLINE 'C' SEE ABOVE RIGHT

MATCHLINE 'C' SEE BELOW LEFT

MATCHLINE 'D' SEE SHEET 10 of 10



C.R. 77 RYAN LAKE DRIVE  
FROM C.R. 75 to C.S.A.H. 36

NO	DATE	BY	CKD	APPR	REVISION

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

PRINT NAME: MARK DALY  
 SIGNATURE: *Mark Daly*  
 DATE: 1/23/03 LICENSE NO. 21763

DRAWN BY: ST DATE 04/22/03  
 DESIGN BY: DATE  
 CHECKED BY: DATE



ANOKA COUNTY  
HIGHWAY DEPT.

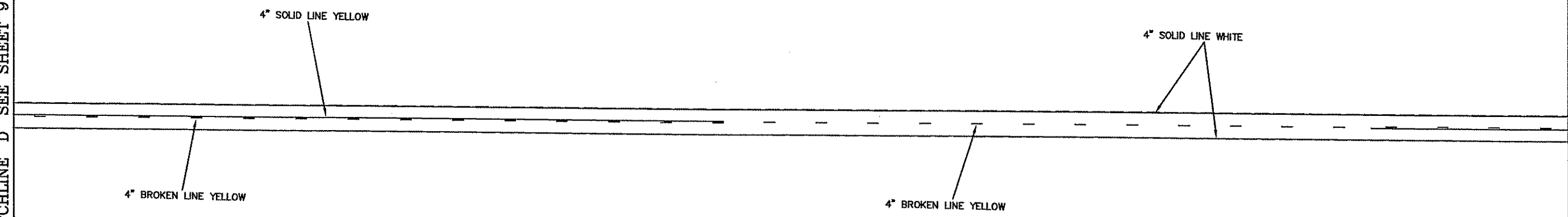
STATE PROJECT NO. \_\_\_\_\_  
 STATE AID PROJECT NO. \_\_\_\_\_  
 STATE AID PROJECT NO. \_\_\_\_\_  
 COUNTY PROJECT NO. 03-06-77

PERMANENT STRIPING  
 Sheet 9 of 10 Sheets

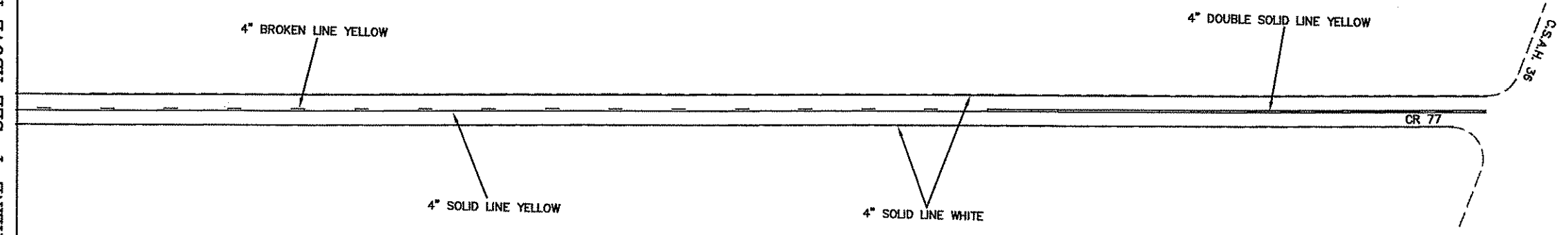


MATCHLINE 'F' SEE BELOW LEFT

MATCHLINE 'D' SEE SHEET 9 of 10



MATCHLINE 'F' SEE ABOVE RIGHT



C.R. 77 RYAN LAKE DRIVE  
FROM C.R. 75 to C.S.A.H. 36

NO	DATE	BY	CKD	APPR	REVISION

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

PRINT NAME: MARK DALY

SIGNATURE: *[Signature]*

DATE: 4/23/2005 LICENSE NO. 21763

DRAWN BY: ST DATE: 04/22/03

DESIGN BY: DATE: \_\_\_\_\_

CHECKED BY: DATE: \_\_\_\_\_



ANOKA COUNTY  
HIGHWAY DEPT.

STATE PROJECT NO. \_\_\_\_\_

STATE AID PROJECT NO. \_\_\_\_\_

STATE AID PROJECT NO. \_\_\_\_\_

COUNTY PROJECT NO. 03-06-77

PERMANENT STRIPING

Sheet 10 of 10 Sheets