

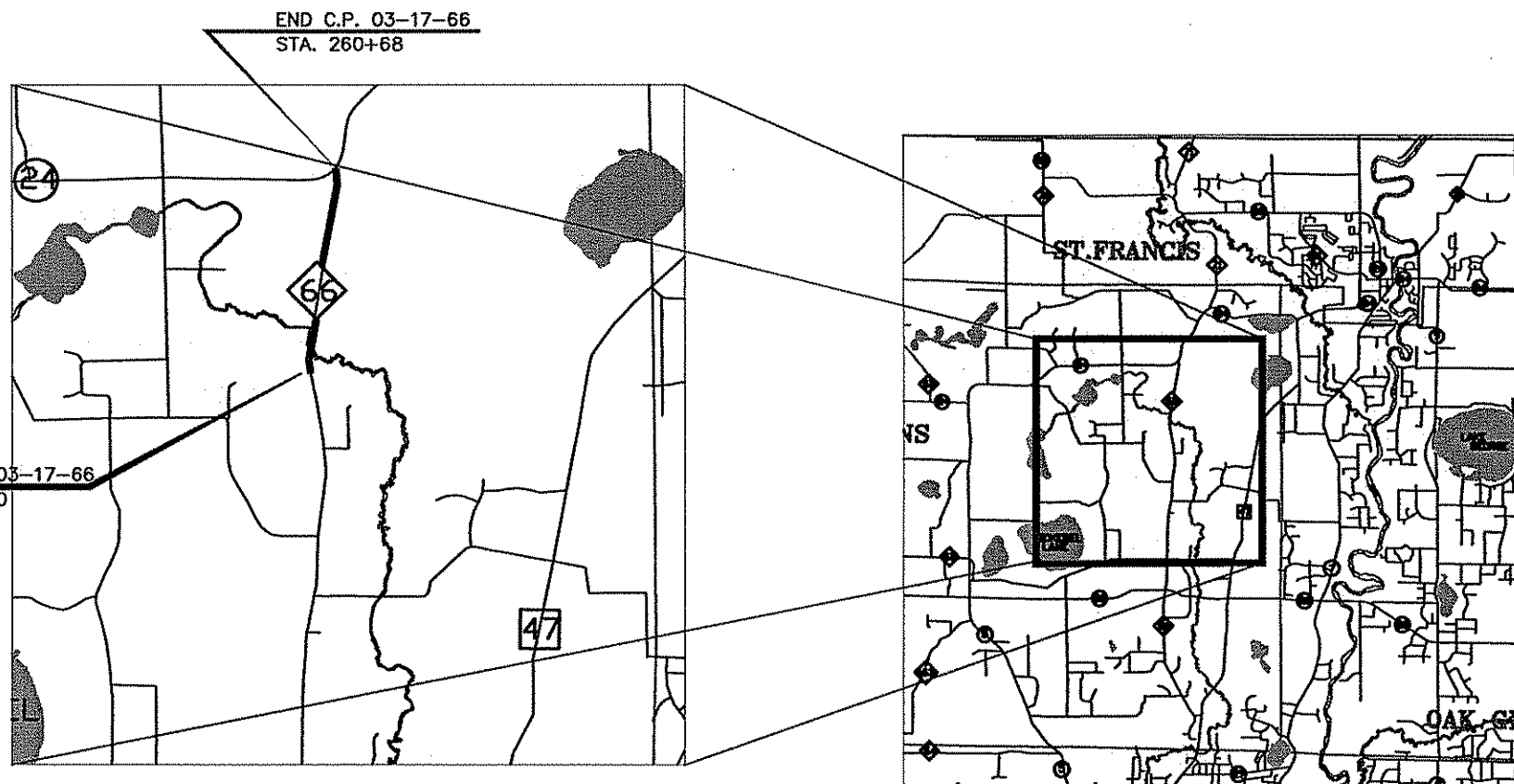
MINNESOTA DEPARTMENT OF TRANSPORTATION

ANOKA COUNTY

CONSTRUCTION PLAN FOR C/L CULVERT REPLACEMENT, GRADING, AGG. BASE, FLY ASH STABILIZED BASE, BITUMINOUS OVERLAY & AGGREGATE SHOULDERING
 LOCATED ON CO. RD. 66 FROM 4239 FT S. OF CSAH 24 AND CSAH 24

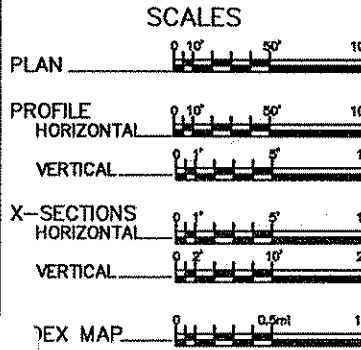
CO. PROJ. NO. 03-17-66
COUNTY ROAD 66

GROSS LENGTH	4268.00	FEET	0.808	MILES
BRIDGES—LENGTH	0.00	FEET	0.000	MILES
EXCEPTIONS—LENGTH	0.00	FEET	0.000	MILES
NET LENGTH	4268.00	FEET	0.808	MILES



- 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 DATE.....
 - MANHOLE.....
 - CATCH BASIN.....
 - FIRE HYDRANT.....
 - CAST IRON MONUMENT.....
 - IRON PIN.....
 - GRAVEL PIT.....
 - SAND PIT.....
 - BORROW PIT.....
 - OCK 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.....
 - WATER MAIN.....
 - 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.....



MINN. PROJ. NO. _____
 MINN. PROJ. NO. _____

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."

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	STATEMENT OF ESTIMATED QUANTITIES
3	TAB CHARTS/EARTHWORK SUMMARY
4-5	TYPICAL SECTIONS
6	DETAILS
7	PLAN AND PROFILE
8-12	CROSS-SECTIONS
13-14	STRIPING PLAN

THIS PLAN CONTAINS 14 SHEETS

DESIGN DESIGNATION

ESAL ₂₀	190226
R VALUE	20
ADT (2002)	1320
Proj. ADT (2022)	1980
Proj. HCADT (2022)	117
Soil Factor	NA
TON DESIGN	

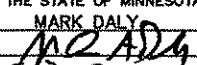
Functional Classification COLLECTOR
 No. of Traffic Lanes 2 No. of Parking Lanes 0
 Design Speed 55 MPH
 Based on Stopping Sight Distance
 Height of eye 3.5' Height of object 0.5'
 Design Speed not achieved at:
 STA. _____ TO STA. _____ MPH
 STA. _____ TO STA. _____ MPH
 STA. _____ TO STA. _____ MPH

Approved 4/29/2003 
 ANOKA COUNTY ENGINEER


NO.	DATE	BY	CHKD	APPR	REVISION

NAME: S:\SDS\PROJ\02-000-00\PLAN\01-TITLE.DWG

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: 
 DATE: 4/15/2003 LICENSE NO. 21763

DRAWN BY: BL DATE: 4/1/03
 DESIGN BY: GA DATE: 4/1/03
 CHECKED BY: _____ DATE: _____


ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 STATE AID PROJECT NO. _____
 COUNTY PROJECT NO. 03-17-66

TITLE SHEET

Sheet 1 of 14 Sheets

A. STATEMENT OF ESTIMATED QUANTITIES					
TAB	ITEM NO.	ITEM	NOTE NO.	UNIT	QTY.
	2021.501	MOBILIZATION		LUMP SUM	1.00
F	2101.502	CLEARING		TREE	88.00
F	2101.507	GRUBBING		TREE	60.00
	2104.501	REMOVE PIPE CULVERTS		LIN FT	142.00
	2104.521	SALVAGE FENCE		LIN FT	1500.00
	2104.521	SALVAGE RC CATTLE PASS PIPE		LIN FT	12.00
	2104.523	SALVAGE RC CATTLE PASS APRON		EACH	2.00
E	2105.501	CULVERT EXCAVATION CLASS U (EV)		CU YD	2301.00
E	2105.511	COMMON CHANNEL EXCAVATION (EV)		CU YD	578.00
E	2105.522	SELECT GRANULAR BORROW (LV)		CU YD	3476.00
E	2105.523	COMMON BORROW (LV)		CU YD	5164.00
	2123.503	MOTOR GRADER	7	HOUR	10.00
	2123.509	DOZER	1	HOUR	30.00
	2123.521	PNEUMATIC-TIRED ROLLER	7	HOUR	10.00
	2130.501	WATER	2	M-GAL	70.00
	2211.501	AGGREGATE BASE CLASS-5	3	TON	510.00
	2221.501	AGGREGATE SHOULDERING CLASS-7B	3	TON	425.00
	2232.501	MILL BITUMINOUS SURFACE (2")		SQ YD	2.00
	2331.604	BITUMINOUS PAVEMENT RECLAMATION		SQ YD	13944.00
	2331.604	MIX RECLAIMED BITUMINOUS PAVEMENT AND FLYASH		SQ YD	13017.00
	2331.609	FLYASH		TON	1205.00
	2350.609	TYPE LV 3 WEARING COURSE MIXTURE (LVWE35030C)	4	TON	1100.00
	2350.609	TYPE LV4 WEARING COURSE MIXTURE, STREET APPR. & ENT. (LVWE45030C)	4	TON	2.00
	2350.609	TYPE LV3 NON-WEARING COURSE MIXTURE, (LVNW35030C)	4	TON	1590.00
	2350.609	TYPE LV3 NON-WEARING COURSE MIXTURE, STREET APPR. & ENT. (LVNW35030C)	4	TON	2.00
	2357.502	BITUMINOUS MATERIAL FOR TACK COAT		GALLON	595.00
	2451.509	AGGREGATE BEDDING		TON	281.00
	2501.511	48" RC PIPE CULVERT, CLASS III		LIN FT	184.00
	2501.541	60" HIGH RC CATTLE PASS CULVERT		LIN FT	28.00
	2501.569	48" RC PIPE APRON		EACH	4.00
	2501.571	INSTALL RC CATTLE PASS PIPE		LIN FT	12.00
	2501.573	INSTALL RC CATTLE PASS APRON		EACH	2.00
	2501.602	PIPE TIES	5	EACH	10.00
	2511.501	RANDOM RIPRAP CLASS III		CU YD	72.00
	2540.602	INSTALL MAIL BOX SUPPORT		EACH	7.00
	2557.603	INSTALL FENCE		LIN FT	1500.00
	2557.603	TEMPORARY FENCING		LIN FT	750.00
	2563.601	TRAFFIC CONTROL		LUMP SUM	1.00
	2563.601	DETOUR SIGNING		LUMP SUM	1.00
	2563.604	CONSTRUCTION SIGN SPECIAL (DIAMOND GRADE)	6	SQ FT	112.00
	2564.603	4" SOLID LINE WHITE-EPOXY		LIN FT	8822.00
	2564.603	4" SOLID LINE YELLOW-EPOXY		LIN FT	2175.00
	2564.603	4" DOUBLE SOLID LINE YELLOW-EPOXY		LIN FT	238.00
	2564.603	4" BROKEN LINE YELLOW-EPOXY		LIN FT	830.00
	2573.502	SILT FENCE, TYPE HEAVY DUTY		LIN FT	1700.00
	2575.501	SEEDING		ACRE	1.70
	2575.502	SEED MIXTURE 80B		POUND	85.00
	2575.511	MULCH MATERIAL, TYPE 1		TON	3.40
	2575.519	DISC ANCHORING		ACRE	1.70
	2575.532	COMMERCIAL FERTILIZER, 22-5-10 (SLOW RELEASE)		POUND	850.00
	2575.605	EROSION CONTROL BLANKET, CATEGORY 1		SQ YD	1100.00
	2580.501	TEMPORARY LANE MARKING		LIN FT	3984.00

B. CONSTRUCTION NOTES	
NOTE NO.	DESCRIPTION
1	TO BE USED TO STRIP INPLACE TOPSOIL AND SPREAD & FINISH THE SALVAGED TOPSOIL. 218+00 - 227+00 AS DIRECTED BY THE ENGINEER.
2	FOR DUST CONTROL AS DIRECTED BY THE ENGINEER.
3	RECYCLED GLASS WILL NOT BE ALLOWED IN CL-5 OR CL-7B.
4	INCLUDES QUANTITY FOR ADDING 1/4" TO THE DESIGN THICKNESS.
5	TO BE INSTALLED ON THE EXISTING CATTLE PASS PIPE & APRON SECTIONS.
6	2 - 8' X 7' SIGNS, SEE SPECIAL PROVISIONS.
7	FOR TRANSITIONING STABILIZED AGGREGATE BASE AT C.S.A.H. 24

C. BASIS OF ESTIMATED QUANTITIES	
SPEC NO.	RATE
2350	LV 3 WEARING COURSE MIXTURE, (LVWE35030C) LV 3 NON WEARING COURSE MIXTURE, (LVNW35030C) LV 4 WEARING COURSE MIXTURE, STREET APPR. & ENT. (LVWE45030C) LV 3 NON WEARING COURSE MIXTURE, STREET APPR. & ENT. (LVNW35030C) 110 LBS/SQ YD/INCH
2357	BITUMINOUS MATERIAL FOR TACK COAT 0.05 GAL/SQ YD/LIFT APPLIED
2575	COMMERCIAL FERTILIZER - ANALYSIS 22-5-10 (SLOW RELEASE), 500 LBS/ACRE SEED MIXTURE 80B, 50 LBS/ACRE MULCH MATERIAL, TYPE 1 - 2 TONS/ACRE

D. STANDARD PLATES	
PLATE NO.	DESCRIPTION
3000L	REINFORCED CONCRETE PIPE.
3020F	REINFORCED PRECAST CONCRETE CATTLE PASS (60").
3022C	PRECAST CONCRETE SAFTY APRON (1: 4 SLOPES).
3133C	RIPRAP AT RCP OUTLETS.
3145E	CONCRETE PIPE TIES.
8000I	STANDARD BARRICADES.

NO	DATE	BY	CHK	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: 4/25/2003 LICENSE NO. 21783

DRAWN BY: BL DATE: 4/1/03
 DESIGN BY: GA DATE: 4/1/03
 CHECKED BY: _____ DATE: _____



ANOKA COUNTY
 HIGHWAY DEPT.

STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 STATE AID PROJECT NO. _____
 COUNTY PROJECT NO. 03-17-66

STATEMENT OF
 ESTIMATED QUANTITIES
 Sheet 2 of 14 Sheets

E.	EARTHWORK SUMMARY
	EXCAVATION (C.Y.) CULVERT EXC. CL-U 2404 (EV)
	EMBANKMENT (C.Y.) REG. FILL 5334 (C.Y.) SELECT GRAN. 2483 (C.Y.)
	BORROW COMMON = (5334 X 1.4) - 2404 = 5164 CU. YD. (LV) SELECT GRAN. = 2483 X 1.4 = 3476 CU. YD.
NOTE:	TOPSOIL STRIPPING & PLACEMENT TO BE PAID UNDER 2123.509 DOZER HOURS.
NOTE:	COMMON CHANNEL EXCAVATION TO BE UTILIZED FOR THE OBLITERATION OF THE EXISTING CHANNEL. OBLITERATION OF THE EXISTING CHANNEL WILL BE CONSIDERED INCIDENTAL TO 2105.511 COMMON CHANNEL EXCAVATION.

F.	CLEAR AND GRUB CHART				
STATION	LOCATION		DESCRIPTION	CLEAR	GRUB
219+30	29'	LT LNB	TREE-CLUMP DEC.	5	1
219+66	25'	LT LNB	TREE-CLUMP DEC.	5	1
219+69	25'	LT LNB	TREE-DOUBLE DEC.	2	1
220+06	29'	LT LNB	TREE-DOUBLE DEC.	2	1
220+08	29'	LT LNB	TREE-SINGLE DEC.	1	1
220+14	29'	LT LNB	TREE-QUAD DEC.	4	1
220+89	36'	LT LNB	TREE-SINGLE DEC.	1	1
220+96	35'	LT LNB	TREE-SINGLE DEC.	1	1
221+23	37'	LT LNB	TREE-SINGLE DEC.	1	1
221+24	36'	LT LNB	TREE-SINGLE DEC.	1	1
221+31	37'	LT LNB	TREE-SINGLE DEC.	1	1
221+65	44'	LT LNB	TREE-SINGLE DEC.	1	1
221+73	66'	LT LNB	TREE-SINGLE DEC.	1	1
221+76	49'	LT LNB	TREE-SINGLE DEC.	1	1
221+92	67'	LT LNB	TREE-SINGLE DEC.	1	1
222+11	42'	LT LNB	TREE-SINGLE DEC.	1	1
222+19	72'	LT LNB	TREE-SINGLE DEC.	1	1
222+23	70'	LT LNB	TREE-SINGLE DEC.	1	1
222+30	71'	LT LNB	TREE-SINGLE DEC.	1	1
222+45	40'	LT LNB	TREE-SINGLE DEC.	1	1
222+47	70'	LT LNB	TREE-DOUBLE DEC.	2	1
222+57	33'	LT LNB	TREE-SINGLE DEC.	1	1
222+61	37'	LT LNB	TREE-SINGLE DEC.	1	1
222+64	32'	LT LNB	TREE-SINGLE DEC.	1	1
222+65	35'	LT LNB	TREE-SINGLE DEC.	1	1
222+86	35'	LT LNB	TREE-SINGLE DEC.	1	1
222+90	39'	LT LNB	TREE-SINGLE DEC.	1	1
223+43	34'	LT LNB	TREE-SINGLE DEC.	1	1
223+56	68'	LT LNB	TREE-SINGLE DEC.	1	1
223+80	70'	LT LNB	TREE-SINGLE DEC.	1	1
223+81	68'	LT LNB	TREE-SINGLE DEC.	1	1
223+82	46'	LT LNB	TREE-SINGLE DEC.	1	1
223+85	68'	LT LNB	TREE-SINGLE DEC.	1	1
223+87	47'	LT LNB	TREE-CLUMP DEC.	5	1
223+90	70'	LT LNB	TREE-SINGLE DEC.	1	1
223+98	45'	LT LNB	TREE-QUAD DEC.	4	1
223+98	68'	LT LNB	TREE-SINGLE DEC.	1	1
224+00	46'	LT LNB	TREE-SINGLE DEC.	1	1
224+01	48'	LT LNB	TREE-SINGLE DEC.	1	1
224+03	69'	LT LNB	TREE-SINGLE DEC.	1	1
224+12	65'	LT LNB	TREE-SINGLE DEC.	1	1
224+16	65'	LT LNB	TREE-SINGLE DEC.	1	1
224+32	31'	LT LNB	TREE-SINGLE DEC.	1	1
224+34	57'	LT LNB	TREE-SINGLE DEC.	1	1
224+35	39'	LT LNB	TREE-TRIPLE DEC.	3	1
224+35	71'	LT LNB	TREE-SINGLE DEC.	1	1
224+51	64'	LT LNB	TREE-SINGLE DEC.	1	1
224+66	66'	LT LNB	TREE-SINGLE DEC.	1	1
224+95	72'	LT LNB	TREE-SINGLE DEC.	1	1
225+13	68'	LT LNB	TREE-SINGLE DEC.	1	1
225+31	41'	LT LNB	TREE-CLUMP DEC.	5	1
225+44	45'	LT LNB	TREE-SINGLE DEC.	1	1
225+45	51'	LT LNB	TREE-SINGLE DEC.	1	1
225+47	49'	LT LNB	TREE-SINGLE DEC.	1	1
225+47	43'	LT LNB	TREE-SINGLE DEC.	1	1
225+50	56'	RT LNB	TREE-DOUBLE DEC.	2	1
225+50	53'	LT LNB	TREE-SINGLE DEC.	1	1
225+50	54'	LT LNB	TREE-SINGLE DEC.	1	1
225+60	80'	LT LNB	TREE-SINGLE DEC.	1	1
225+61	79'	LT LNB	TREE-SINGLE DEC.	1	1
			TOTAL	88	60

G.	INSTALL MAILBOX SUPPORTS		
	ADDRESS	LOC.	EACH
	# 21520	RT.	1
	# 21637	RT.	1
	# 21690	RT.	1
	# 21736	RT.	1
	# 21920	RT.	1
	# 21929	RT.	1
	# 21970	RT.	1

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: MARY DALY
SIGNATURE: [Signature]
DATE: 4/25/2013 LICENSE NO. 21783

DRAWN BY: BL DATE: 4/1/03
DESIGN BY: GA DATE: 4/1/03
CHECKED BY: _____ DATE: _____

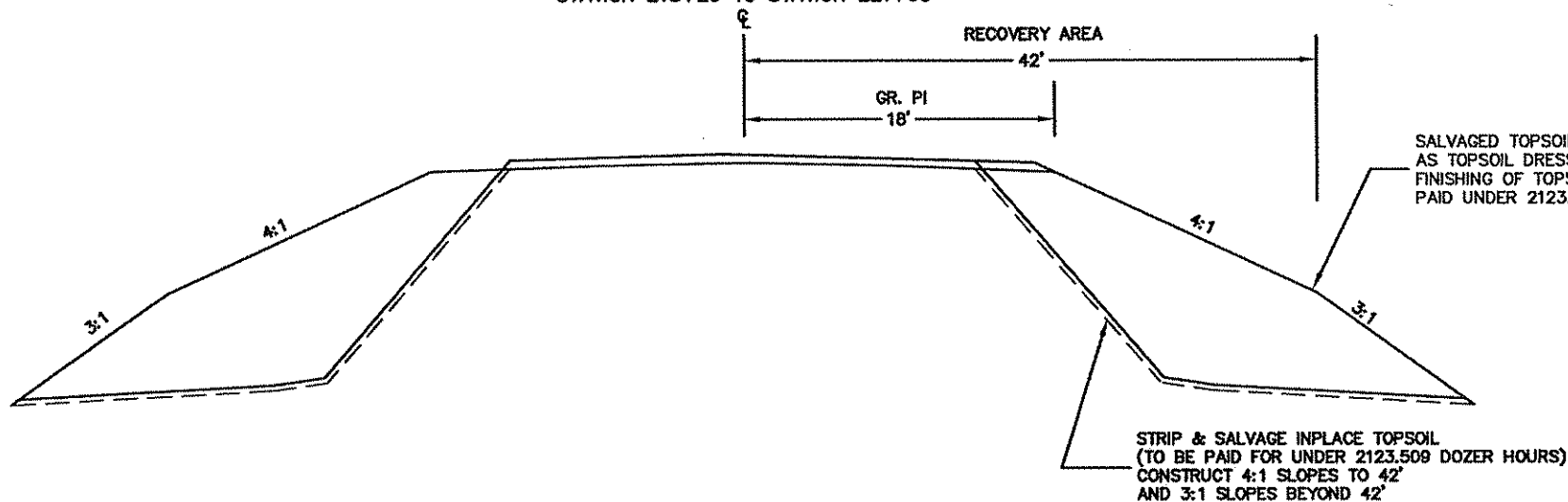


ANOKA COUNTY
HIGHWAY DEPT.

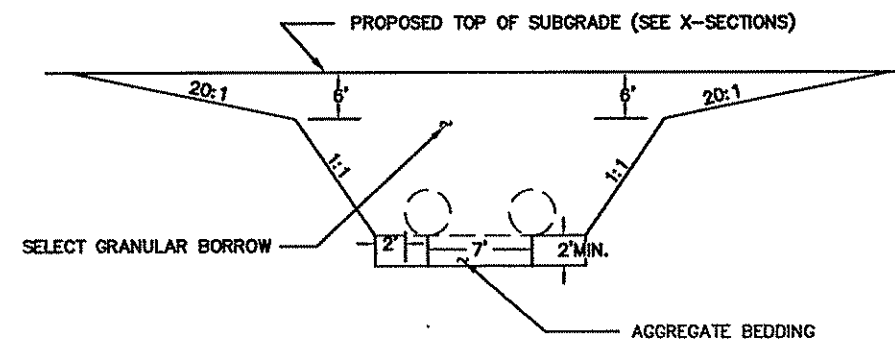
STATE PROJECT NO. _____
STATE AID PROJECT NO. _____
CITY PROJECT NO. _____
COUNTY PROJECT NO. 03-17-66

TAB CHARTS /
EARTHWORK SUMMARY
Sheet 3 of 14 Sheets

GRADING SECTION
STATION 218+29 TO STATION 221+63

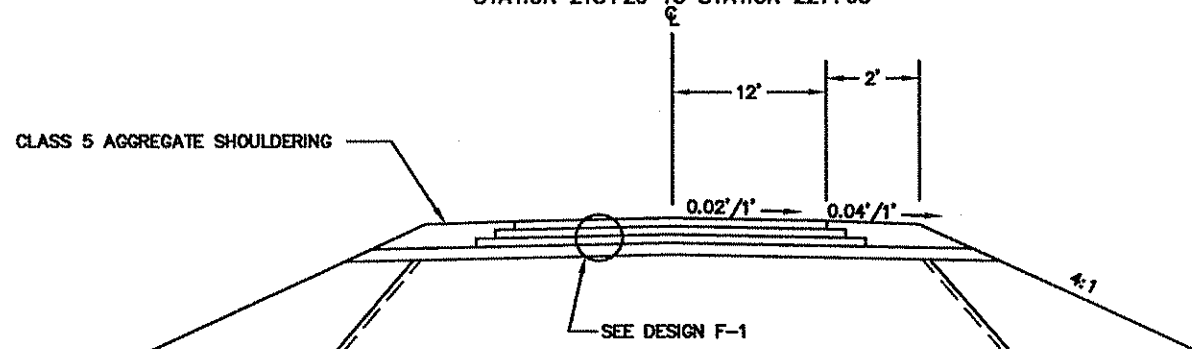


CENTERLINE CULVERT INSTALLATION

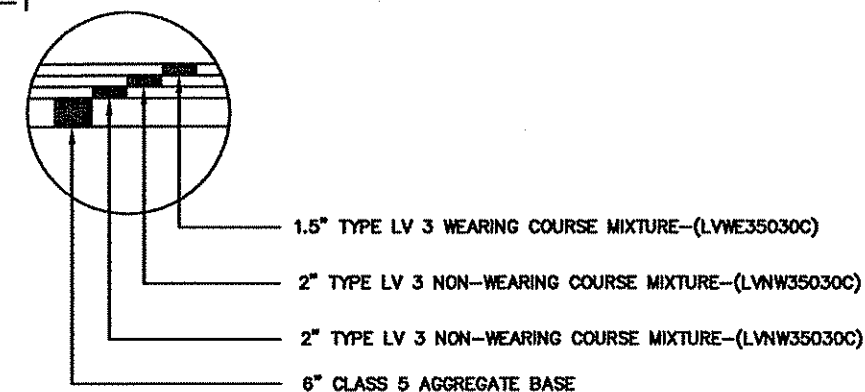


- NOTES:
- FILL AND COMPACT GRANULAR TO 2" ABOVE FLOWLINE BEFORE PLACING CULVERT.
 - AT CENTERLINE CULVERT LOCATIONS CULVERT EXCAVATION TO EXTEND 3' BEYOND END OF APRON.
 - CULV. EXC TO BE PAID UNDER 2105.501 CULVERT EXCAVATION, CLASS U
 - SEE CROSS SECTION AND PROFILE SHEET FOR DEPTHS AND LIMITS OF CULVERT EXCAVATION.

BASE AND BITUMINOUS SECTION
STATION 218+29 TO STATION 221+63



INSET F-1



NO	DATE	BY	CHKD	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: **7/25/2003** LICENSE NO. **21783**

DRAWN BY: **BL** DATE: **4/1/03**
 DESIGN BY: **GA** DATE: **4/1/03**
 CHECKED BY: _____ DATE: _____



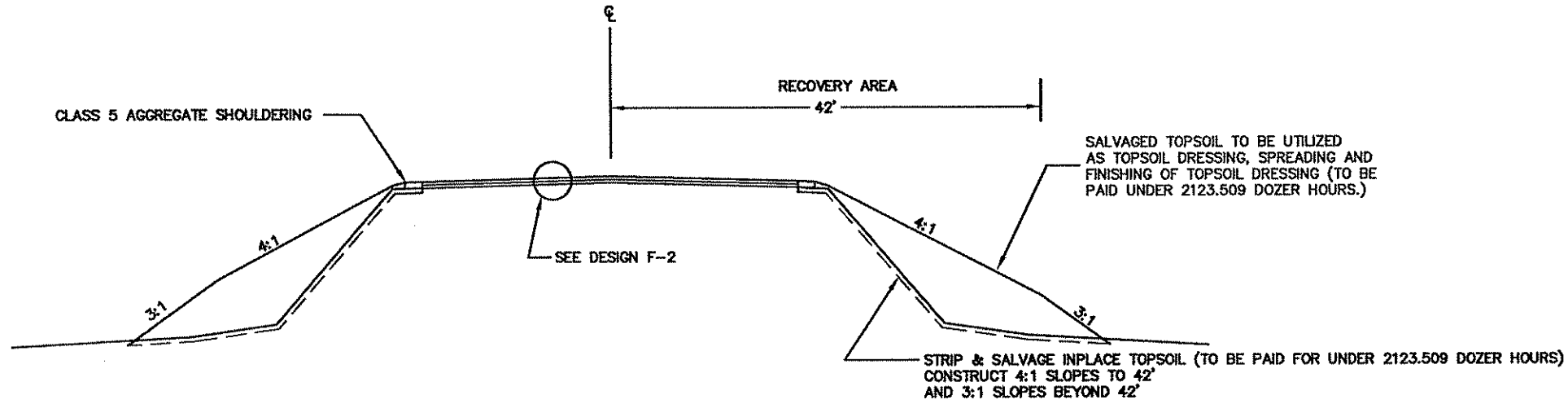
**ANOKA COUNTY
HIGHWAY DEPT.**

STATE PROJECT NO. _____
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 STATE AID PROJECT NO. _____
 COUNTY PROJECT NO. **03-17-66**

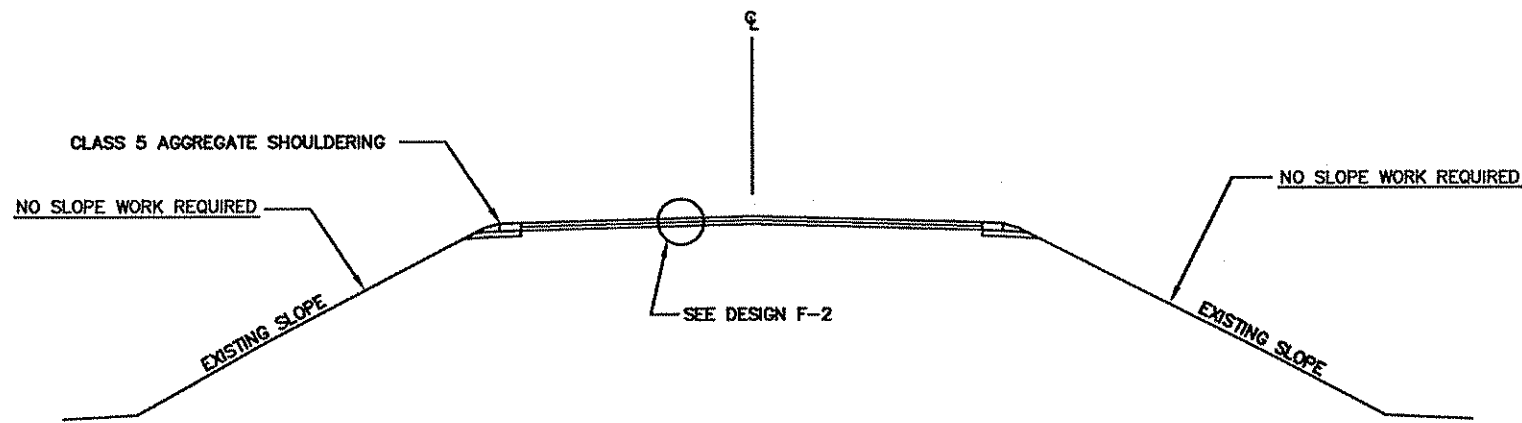
TYPICAL SECTIONS

Sheet **4** of **14** Sheets

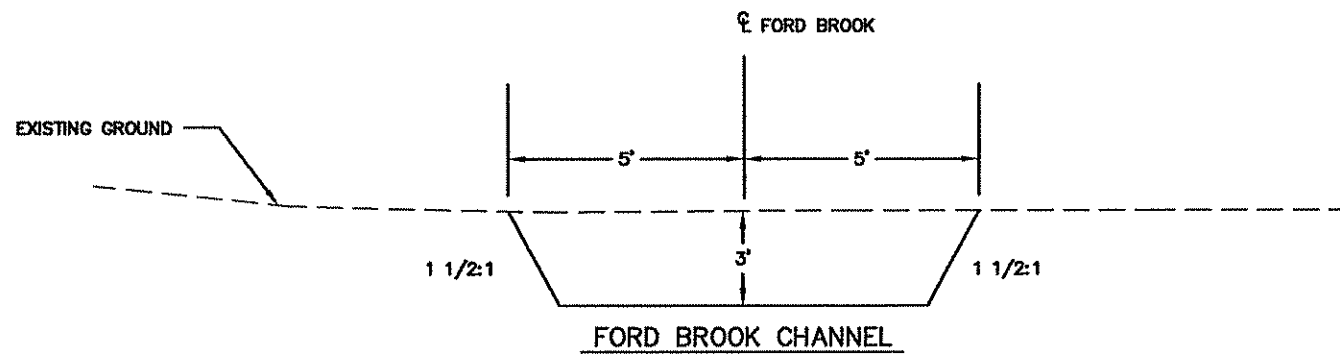
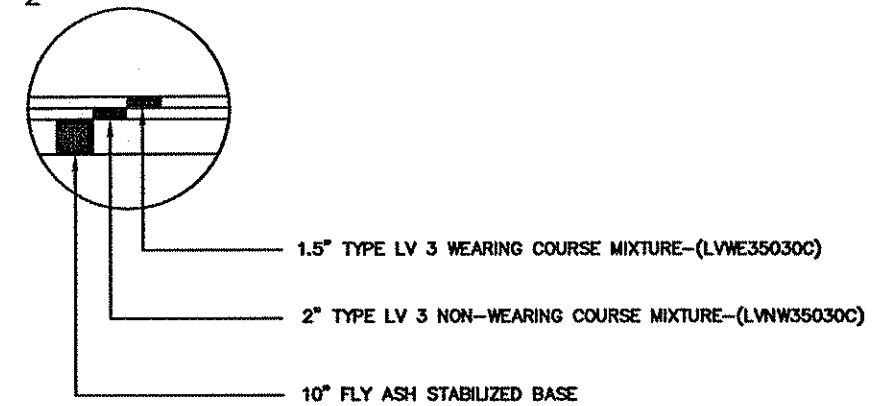
SLOPE GRADING
 STATION 218+00 TO STATION 218+29
 STATION 221+63 TO STATION 227+00



TYPICAL SECTION
 STATION 227+00 TO STATION 260+68



INSET F-2



NO	DATE	BY	CHKD	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: 4/25/03 LICENSE NO. 21783

DRAWN BY: BL DATE: 4/1/03

DESIGN BY: GA DATE: 4/1/03

CHECKED BY: _____ DATE: _____



ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. _____

STATE AID PROJECT NO. _____

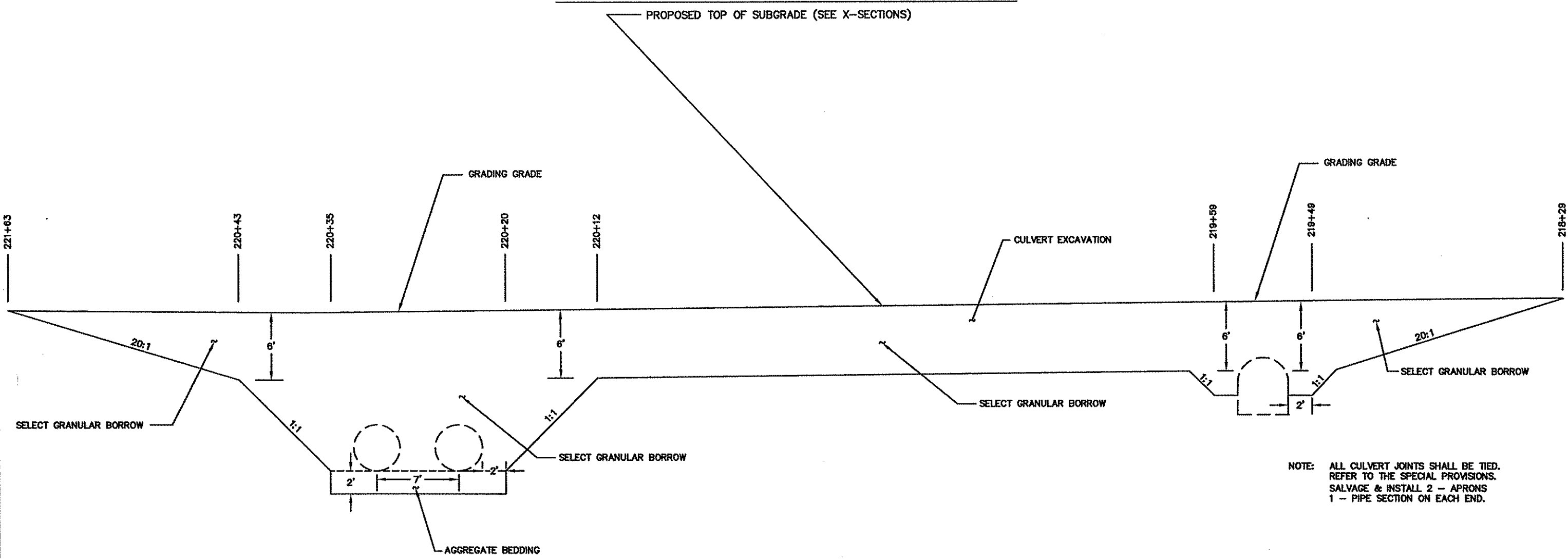
STATE AID PROJECT NO. _____

COUNTY PROJECT NO. 03-17-66

TYPICAL SECTIONS

Sheet 5 of 14 Sheets

CENTERLINE CULVERT AND CATTLE PASS EXCAVATION



NOTES:
 FILL AND COMPACT GRANULAR TO 2' ABOVE FLOWLINE BEFORE PLACING CULVERT.
 AT CENTERLINE CULVERT LOCATION CULVERT EXCAVATION TO EXTEND 3' BEYOND END OF APRON.
 CULVERT EXCAVATION TO BE PAID UNDER 2105.501 CULVERT EXCAVATION, CLASS U
 SEE CROSS SECTION AND PROFILE SHEET FOR DEPTH AND LIMITS OF CULVERT EXCAVATION.

NOTE: ALL CULVERT JOINTS SHALL BE TIED. REFER TO THE SPECIAL PROVISIONS. SALVAGE & INSTALL 2 - APRONS 1 - PIPE SECTION ON EACH END.

NO	DATE	BY	CHK	APPR	REVISION

NAME: T:\LIB\dwg_template\Plan-Tab Sheet.dwg 03/25/2003 07:43:37 AM CST

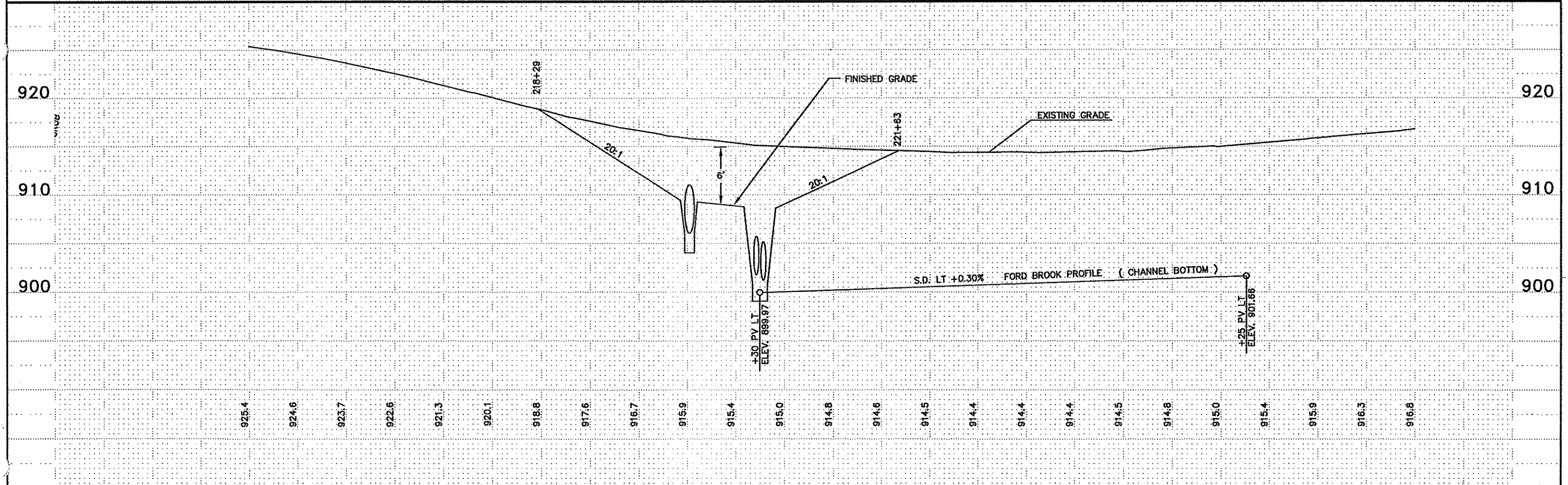
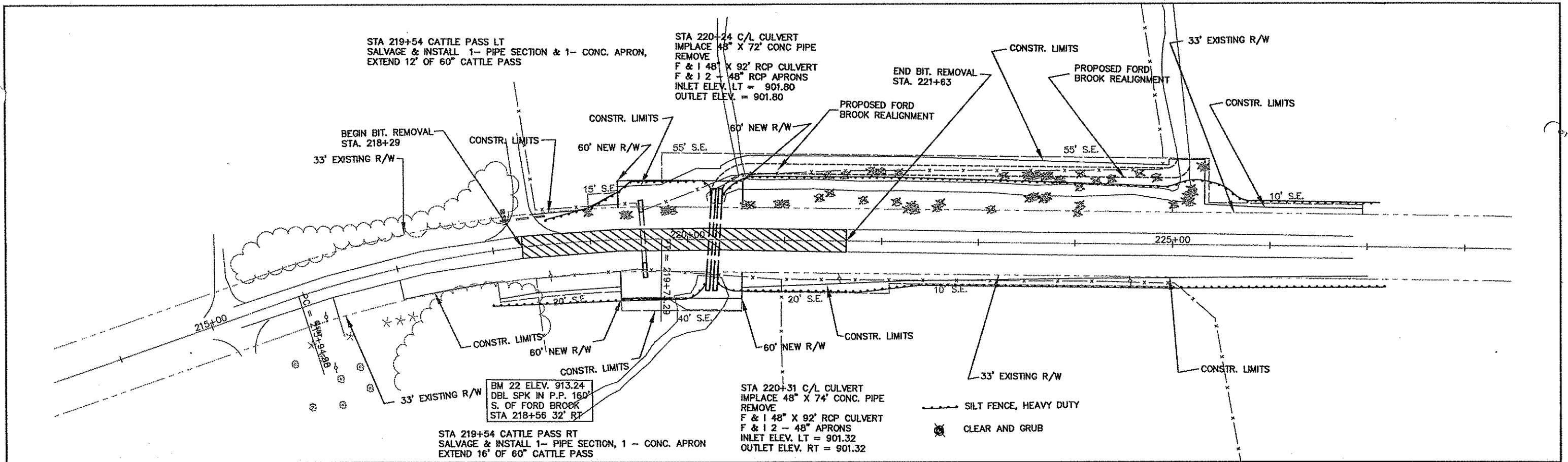
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: MARK DALY
 SIGNATURE: *[Signature]*
 DATE: 4/25/03 LICENSE NO. 21763

DRAWN BY: B.L. DATE: 4/1/03
 DESIGN BY: G.A. DATE: 4/1/03
 CHECKED BY: _____ DATE: _____

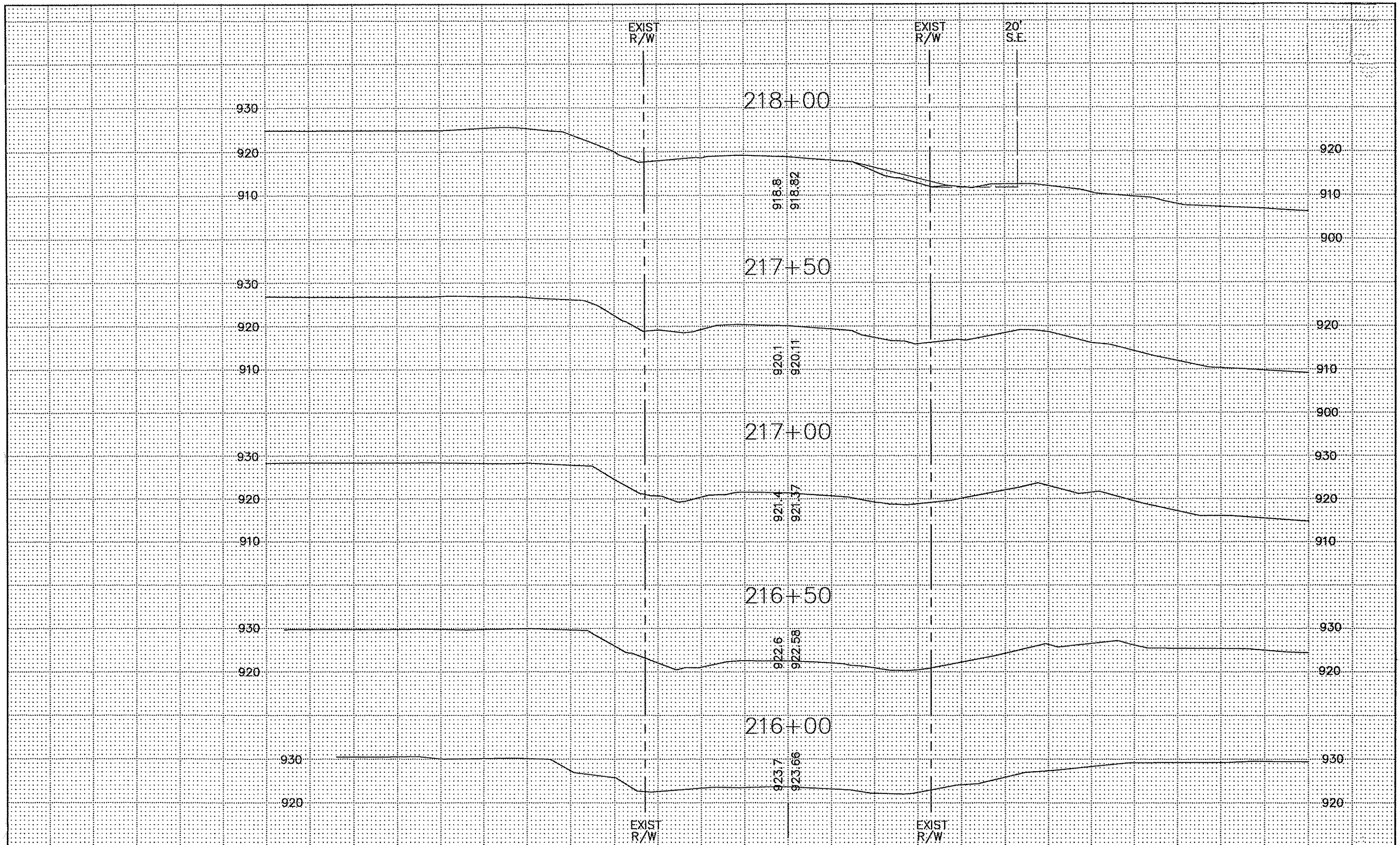
ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 CITY PROJECT NO. _____
 COUNTY PROJECT NO. 03-17-66

DETAILS
 Sheet 6 of 14 Sheets



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: <i>[Signature]</i> DATE: 1/25/2003 LICENSE NO. 21763					DRAWN BY: B.L. 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. _____ CITY PROJECT NO. _____ COUNTY PROJECT NO. 03-17-66	PLAN AND PROFILE Sheet 7 of 14 Sheets
NO. DATE BY CKD APPR REVISION NAME: T:\LIB\Drng_template\Layout-Plan&Prof.dwg 03/25/2003 07:38:33 AM CST								



NO	DATE	BY	CHKD	APPR	REVISION

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

PRINT NAME: MARK DALY

SIGNATURE: *Mark Daly*

DATE: 4/25/03 LICENSE NO. 21763

DRAWN BY: BL DATE: 4/1/03

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

CHECKED BY: _____ DATE: _____



ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. _____

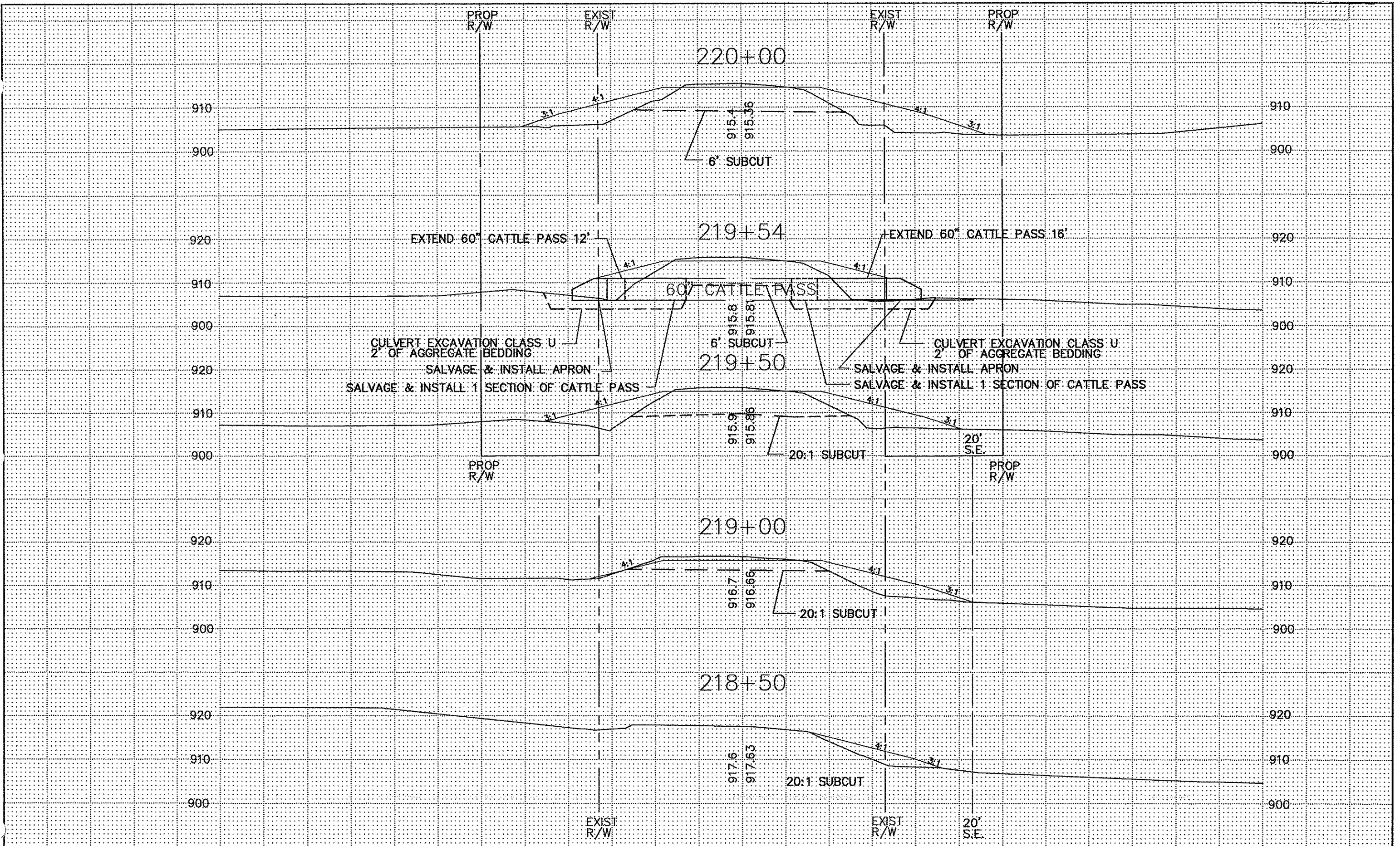
STATE AID PROJECT NO. _____

STATE AID PROJECT NO. _____

COUNTY PROJECT NO. 03-17-66

CROSS SECTIONS
STA 216+00 TO 218+00

Sheet 8 of 14 Sheets



NO	DATE	BY	CHKD	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: 4/25/03 LICENSE NO. 21763

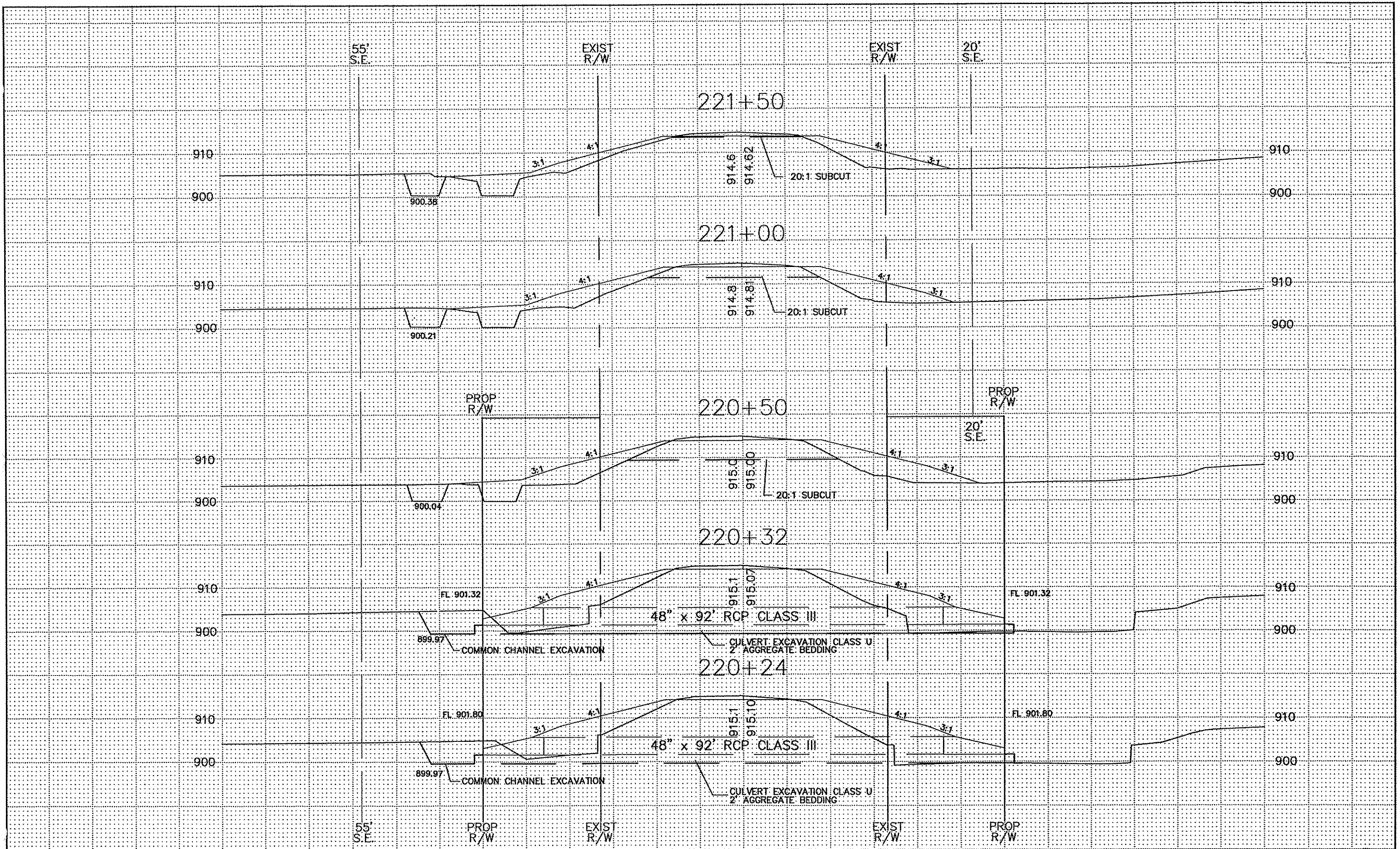
DRAWN BY: B.L. DATE: 4/1/03
DESIGN BY: G.A. DATE: 4/1/03
CHECKED BY: _____ DATE: _____



ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. _____
STATE AID PROJECT NO. _____
STATE AID PROJECT NO. _____
COUNTY PROJECT NO. 03-17-66

CROSS SECTIONS
STA 218+50 TO 220+00
Sheet 9 of 14 Sheets



I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: MARK DALY
 SIGNATURE: *Mark Daly*
 DATE: 4/25/03 LICENSE NO. 21763

DRAWN BY: B.L. DATE: 4/1/03
 DESIGN BY: G.A. DATE: 4/1/03
 CHECKED BY: _____ DATE: _____



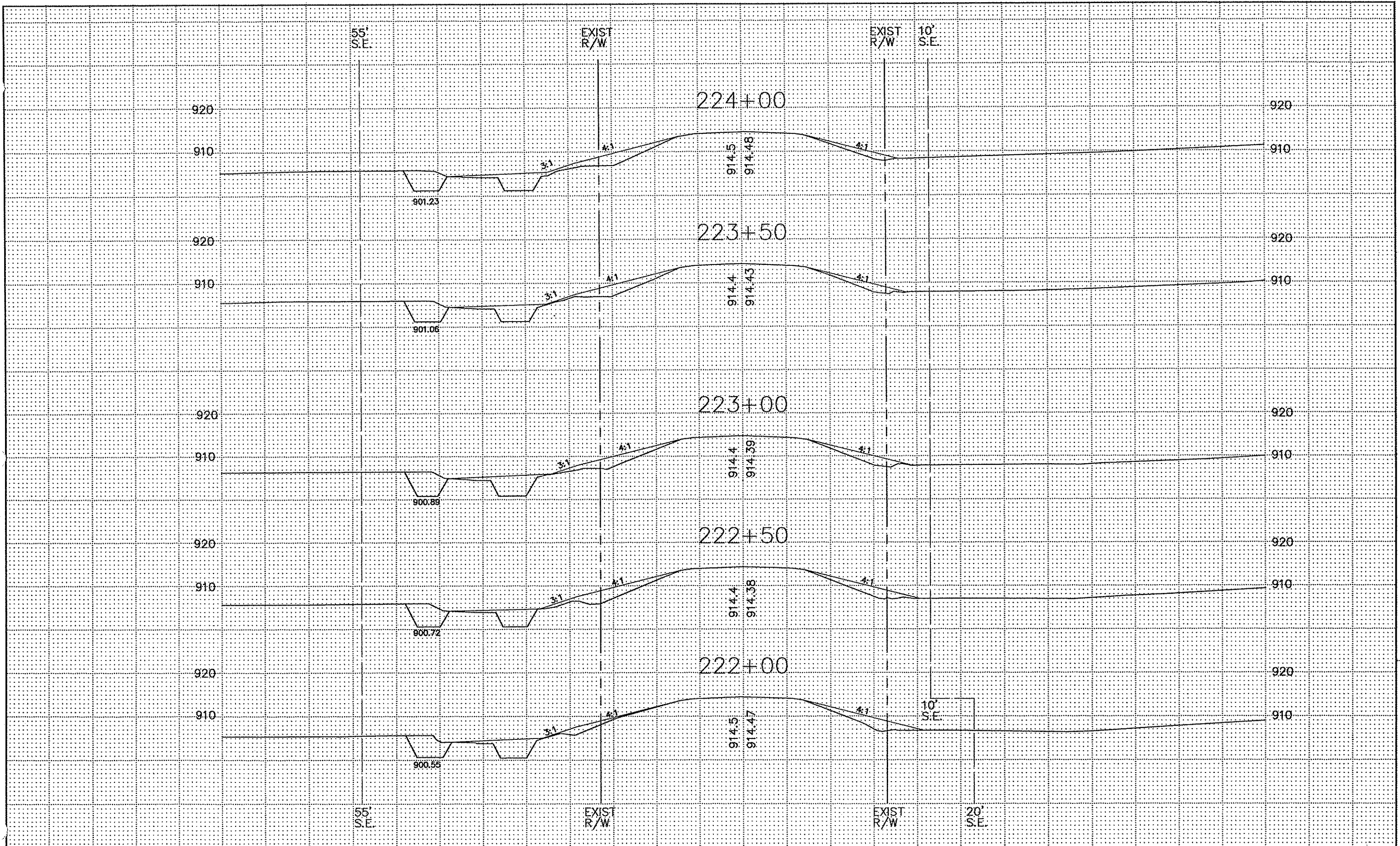
ANOKA COUNTY
 HIGHWAY DEPT.

STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 STATE AID PROJECT NO. _____
 COUNTY PROJECT NO. 03-17-66

CROSS SECTIONS
 STA 220+24 TO 221+50
 Sheet 10 of 14 Sheets

NO	DATE	BY	CHKD	APPR	REVISION

NAME: S:\SD\SR\PROJ\000000\000000\028000.DWG



NO	DATE	BY	CHKD	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: MRADG

DATE: 4/25/2003 LICENSE NO. 21763

DRAWN BY B.L. DATE 4/1/03

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

CHECKED BY _____ DATE _____



ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. _____

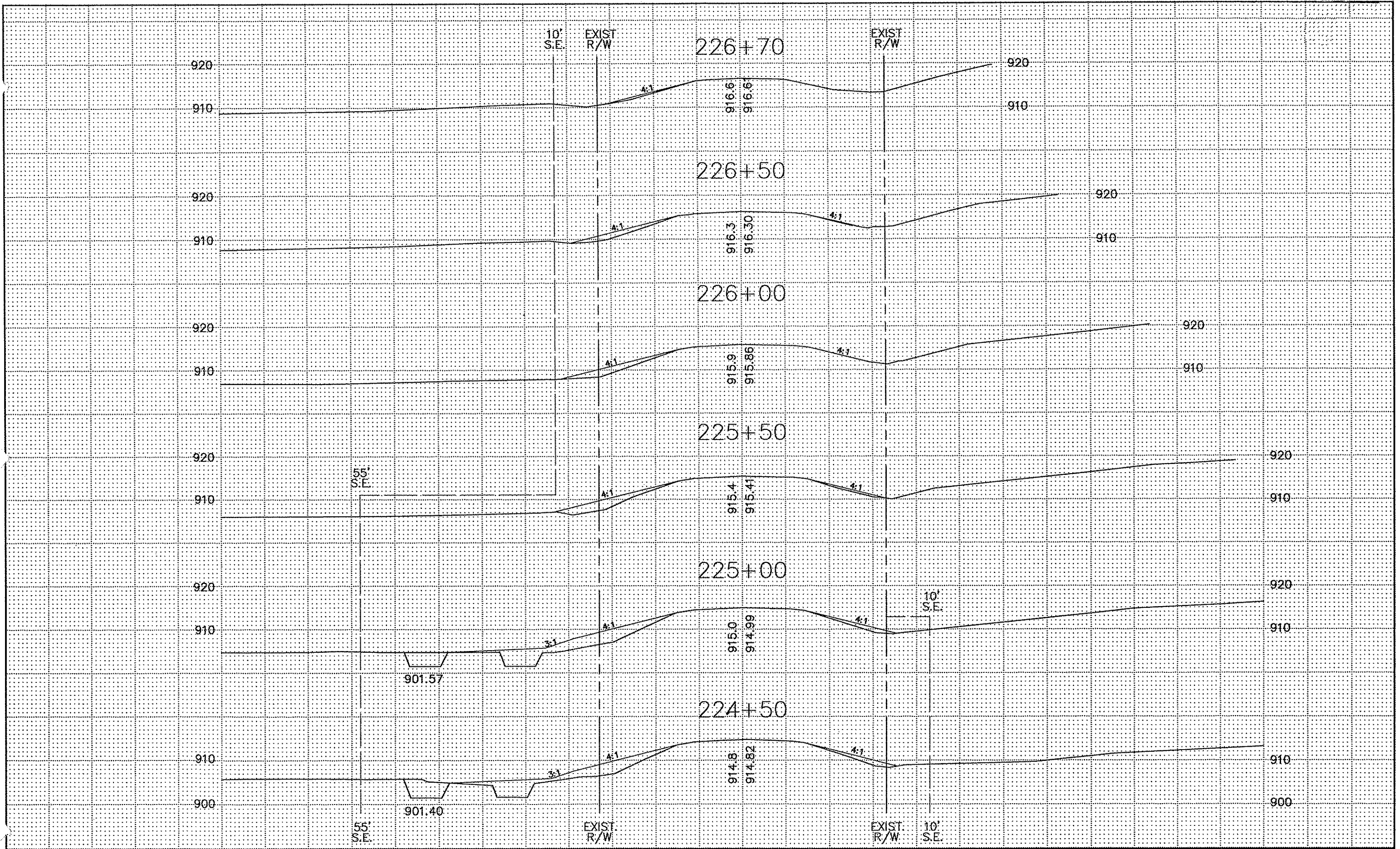
STATE AID PROJECT NO. _____

STATE AID PROJECT NO. _____

COUNTY PROJECT NO. 03-17-66

CROSS SECTIONS
STA 222+00 TO 224+00

Sheet 11 of 14 Sheets



NO	DATE	BY	CHKD	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: MARY DALY
 SIGNATURE: [Signature]
 DATE: 4/25/03 LICENSE NO. 21763

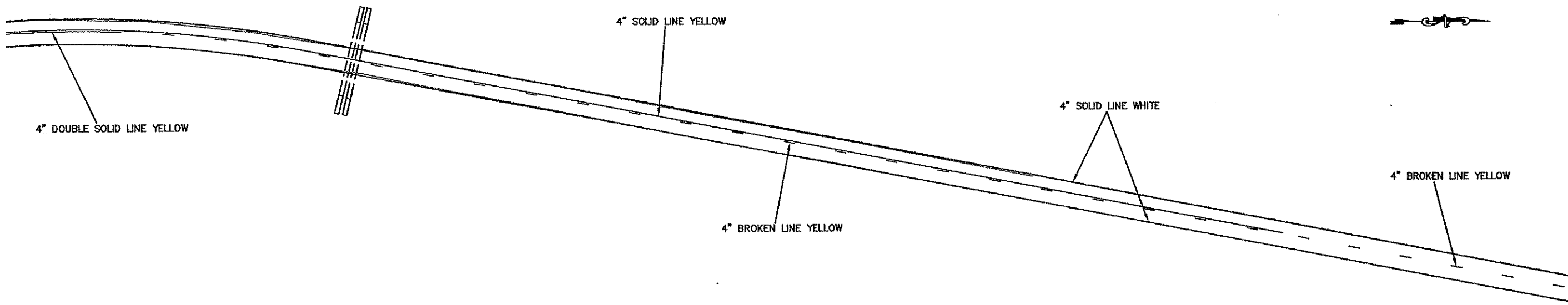
DRAWN BY B.L. DATE 4/1/03
 DESIGN BY G.A. DATE 4/1/03
 CHECKED BY _____ DATE _____



**ANOKA COUNTY
HIGHWAY DEPT.**

STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 STATE AID PROJECT NO. _____
 COUNTY PROJECT NO. 03-17-66

CROSS SECTIONS
 STA 224+50 TO 226+70
 Sheet 12 of 14 Sheets

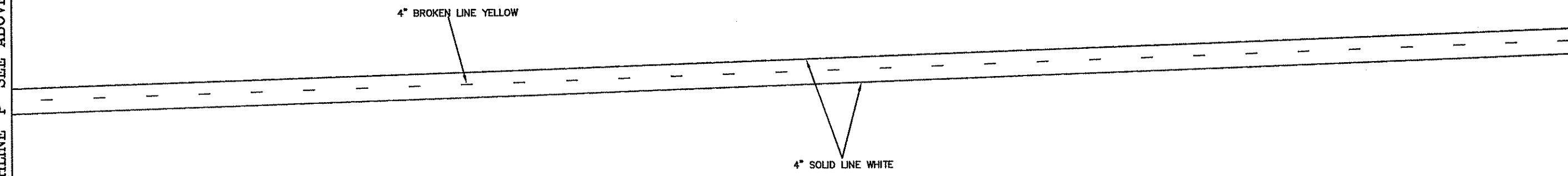


238' 4" DOUBLE SOLID LINE YELLOW - EPOXY
 2175' 4" SOLID LINE YELLOW - EPOXY
 8822' 4" SOLID LINE WHITE - EPOXY
 830' 4" BROKEN LINE YELLOW - EPOXY

MATCHLINE 'P' SEE ABOVE RIGHT

MATCHLINE 'P' SEE BELOW LEFT

MATCHLINE 'Q' SEE SHEET 14 OF 14



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: 4/25/03 LICENSE NO. 21763

DRAWN BY: ST DATE: 04/25/03
 DESIGN BY: DATE:
 CHECKED BY: DATE:

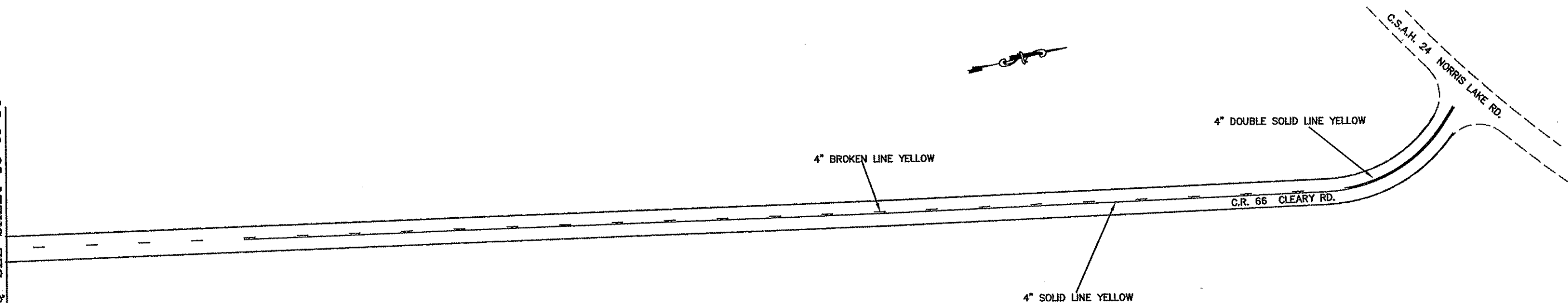


ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO.
 STATE AID PROJECT NO.
 STATE AID PROJECT NO.
 COUNTY PROJECT NO. 03-17-66

PERMANENT STRIPING
 Sheet 13 of 14 Sheets

MATCHLINE 'Q' SEE SHEET 13 of 14



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: *4/25/03* LICENSE NO. 21763

DRAWN BY: ST DATE: 04/25/03
 DESIGN BY: DATE: _____
 CHECKED BY: DATE: _____



ANOKA COUNTY
 HIGHWAY DEPT.

STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 STATE AID PROJECT NO. _____
 COUNTY PROJECT NO. 03-17-66

PERMANENT STRIPING
 Sheet 14 of 14 Sheets