

# ANOKA COUNTY HIGHWAY DEPARTMENT

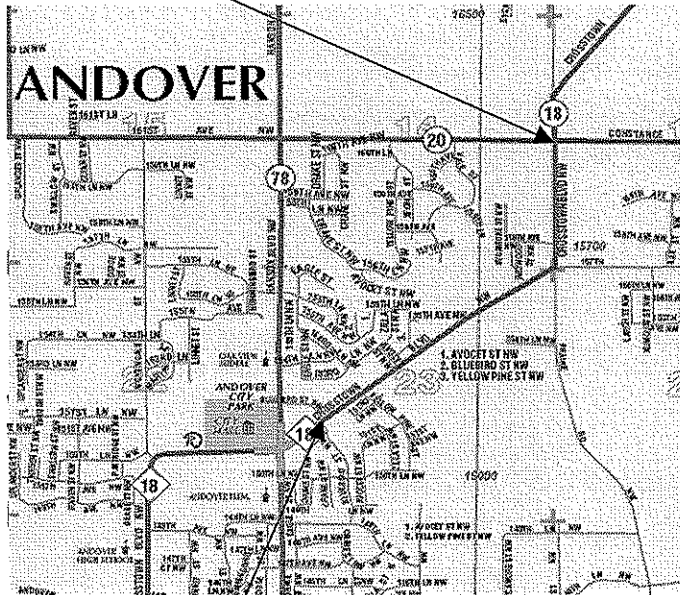
CONSTRUCTION PLAN FOR:

BITUMINOUS RECLAMATION,  
BITUMINOUS OVERLAY

CR NO: 18  
FROM E. OF BLUEBIRD ST.  
TO S. OF 161st AVE  
FROM  
TO

COUNTY PROJECT NO: 06-37-18  
GROSS LENGTH 8110 FT 1.54 MI  
BRIDGES LENGTH 0 FT 0.00 MI  
RR X-ING EXCEPTION LENGTH 12 FT 0.00 MI  
NET LENGTH 8098 FT 1.53 MI

END PROJECT C.P. 06-37-18 STATION 91+13



BEGIN PROJECT C.P. 06-37-18 STATION 10+00---

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

  
ANDREW J. WITTER, P.E.

LIC. NO. 42757 DATE 6/9/06

## 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 2004."

APPROVED 6/14, 2006

  
ANOKA COUNTY ENGINEER

**STATEMENT OF ESTIMATED QUANTITIES**

ITEM NO.	ITEM	NOTE NO.	UNIT	TOTAL EST. QUANT.
2021.501	MOBILIZATION		LUMP SUM	1
2021.601	RXR PROTECTIVE LIABILITY INSURANCE		LUMP SUM	1
2104.503	REMOVE BITUMINOUS DRIVEWAY PAVEMENT		SQ YD	64
2104.513	SAW BITUMINOUS PAVEMENT FULL DEPTH		LIN FT	830
2105.501	COMMON EXCAVATION	(1)	CU YD	3624
2105.525	TOPSOIL BORROW (LV)		CU YD	200
2123.503	MOTOR GRADER		HOUR	30
2123.521	PNEUMATIC-TIRED ROLLER		HOUR	20
2130.501	WATER		M-GAL	25
2211.501	AGGREGATE BASE CLASS 5		TON	2232
2221.609	AGGREGATE SHOULDERING CLASS 7B		TON	230
2232.501	MILL BITUMINOUS SURFACE (2") (JOINTS)		SQ YD	1595
2331.604	BITUMINOUS PAVEMENT RECLAMATION		SQ YD	20000
2357.502	BITUMINOUS MATERIAL FOR TACK COAT		GALLON	1307
2360.609	TYPE LV4 WEARING COURSE MIXTURE ( MAINLINE ) ( LVWE45030 B )		TON	2935
2360.609	TYPE LV3 NON-WEARING COURSE ( MAINLINE ) ( LVNW35030 B )		TON	2775
2360.609	TYPE LV4 WEARING COURSE ( ST./ DR. ) ( LVNW45030 B )		TON	162
2501.511	12" CS PIPE CULVERT		LIN FT	96
2501.567	12" GS SAFETY APRON AND GRATE		EACH	8
2511.501	RANDOM RIP RAP III		CU YD	6
2531.603	CONCRETE CURB DESIGN B4-24		LIN FT	1000
2540.602	INSTALL MAIL BOX SUPPORT		EACH	16
2563.601	TRAFFIC CONTROL		LUMP SUM	1
2564.602	PAVEMENT MESSAGE ( RR X-ING )		EACH	2
2564.603	4" SOLID LINE WHITE - LATEX		LIN FT	17580
2564.603	4" BROKEN LINE YELLOW-LATEX		LIN FT	2850
2564.603	4" SOLID LINE YELLOW - LATEX		LIN FT	1430
2564.603	4" DOUBLE SOLID LINE YELLOW - LATEX		LIN FT	8222
2564.603	24" SOLID WHITE ( STOP BARS )-LATEX		LIN FT	24
2573.508	BITUMINOUS LINED FLUME		SQ YD	24
2575.501	SEEDING		ACRE	5
2575.502	SEED MIXTURE 240B @ 50 LBS / ACRE		LB	250
2575.511	MULCH MATERIAL TYPE III		TON	10
2575.519	DISK ANCHORING		ACRE	5
2575.523	EROSION CONTROL BLANKETS CATEGORY 2		SQ YD	4000
2575.523	COMMERCIAL FERTILIZER 22-5-10 @ 500 LBS / ACRE		LB	2500
2580.603	REMOVABLE LANE TAPE		LIN FT	860

**NOTES**

(1) COMMON EXCAVATION QUANTITY REPRESENTS EXCAVATION OF RECLAIMED AREAS TO A DEPTH OF 10 INCHES, PLACING 6 INCHES OF RECLAIM AND HAULING AWAY EXCESS SUBGRADE MATERIAL.

**BASIS OF PLANNED QUANTITIES**

2211.501	AGGREGATE BASE CLASS 5	CU YDS * 1.8 = TONS
2221.609	AGGREGATE SHOULDERING CLASS 7B	CU YDS * 1.8 = TONS
2357.502	BITUMINOUS MATERIAL FOR TACK COAT	.05 GAL / SQ YD
2360.609	TYPE LV4 WEAR MIXTURE ( LVWE45030 B )	115 LBS/SQYD/IN THICKNESS
2360.609	TYPE LV3 NON-WEAR MIXTURE ( LVNW35030 B )	115 LBS/SQYD/IN THICKNESS
2580.603	REMOVABLE LANE TAPE	4' AT 50' INTERVALS FOR SKIPS

**STANDARD DETAIL PLATES**

PLATE NO.	DESCRIPTION
7100G	CONCRETE CURB AND GUTTER (DESIGN B)

CERTIFIED BY \_\_\_\_\_  
ANDREW J. WITTER, P.E.

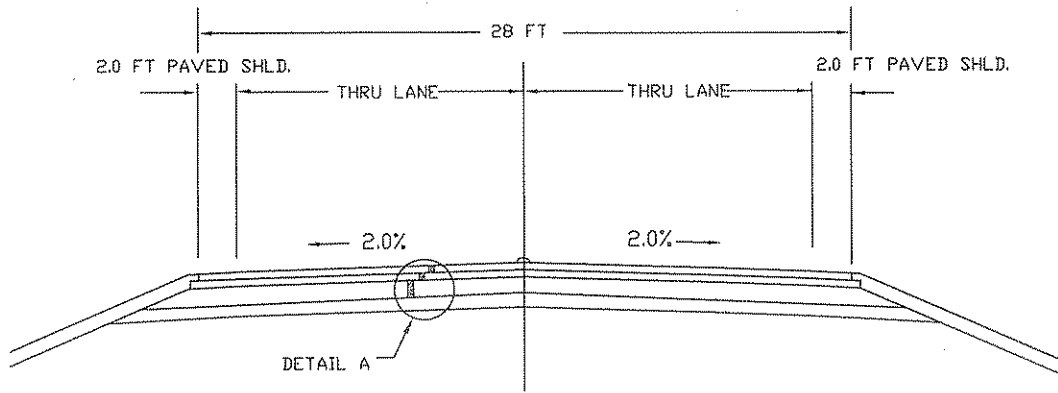
LIC. NO. 42757 DATE \_\_\_\_\_

# TYPICAL SECTIONS

## STANDARD SECTION

STA 10+00 TO 18+33 / STA 46+85 TO 73+80 / STA 88+93 TO 91+10

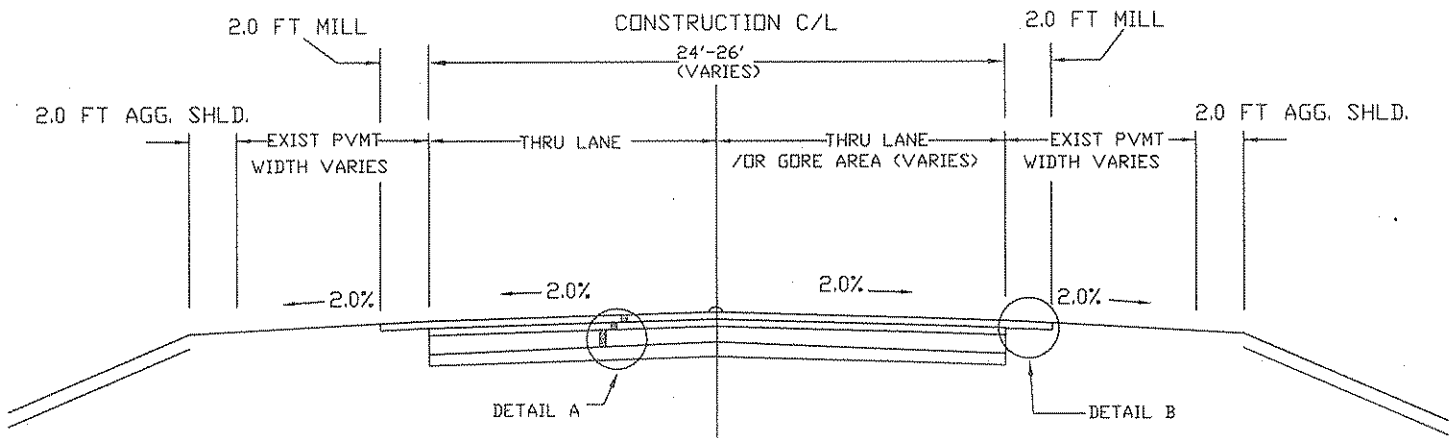
CONSTRUCTION C/L



## STANDARD SECTION

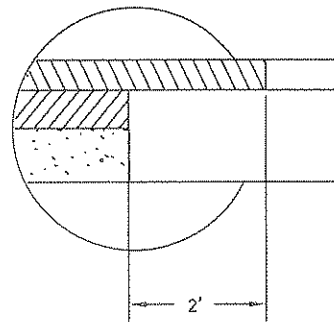
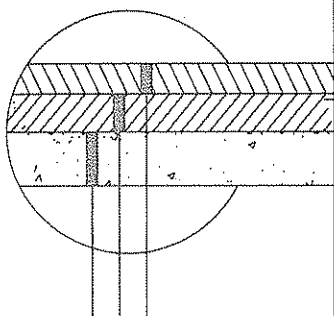
STA 31+16 TO 35+75 / STA 79+05 TO 83+43

CONSTRUCTION C/L



DETAIL A-PROPOSED MAINLINE

DETAIL B-EDGE JOINT



- 2' TYPE LV4 WEAR ( LVWE45030 B )
- 2' TYPE LV3 NON-WEAR ( LVNW35030 B )
- 6' RECLAIM (INPLACE BITUMINOUS + NEW BASE AGG.)

NOTE: NOT TO SCALE

CERTIFIED BY

*Andrew J. Witter*  
ANDREW J. WITTER, P.E.

C.P. 06-37-18

LIC. NO. 42757 DATE 6/9/06

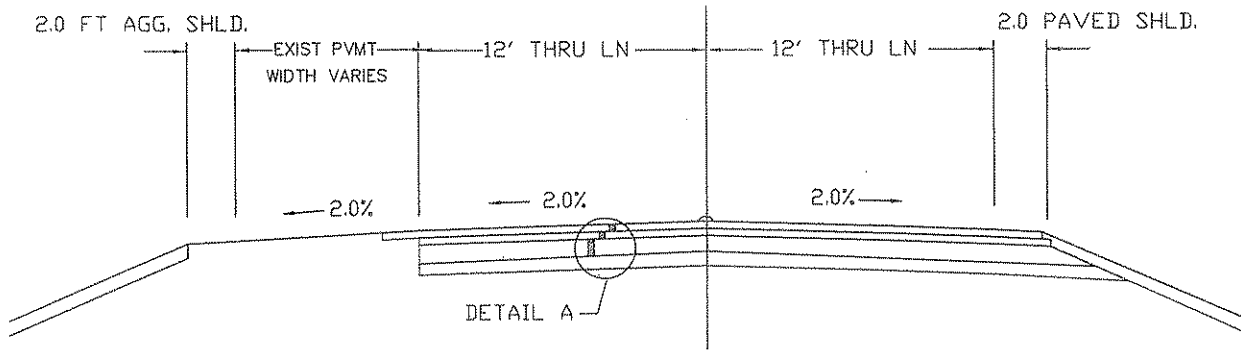
SHEET NO. 5 OF 13 SHEETS

# TYPICAL SECTIONS

## STANDARD SECTION

STA 22+07 TO 31+16 / STA 35+75 TO 46+85

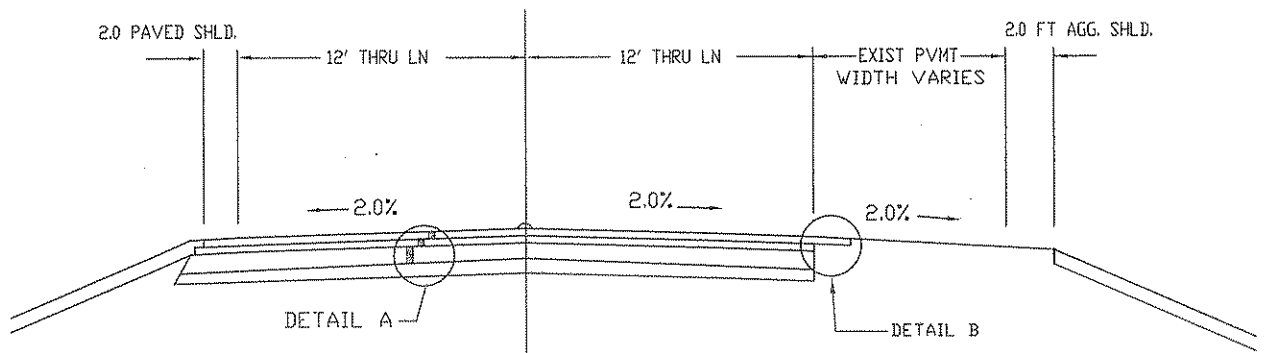
CONSTRUCTION C/L



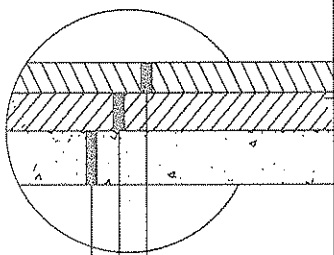
## STANDARD SECTION

STA 73+80 TO 79+05 / STA 83+43 TO 88+93

CONSTRUCTION C/L

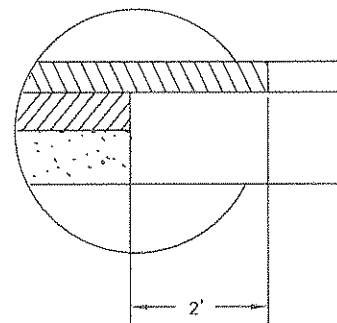


DETAIL A-PROPOSED MAINLINE



- 2" TYPE LV4 WEAR ( LVWE45030 B )
- 2" TYPE LV3 NON-WEAR ( LVNW35030 B )
- 6" RECLAIM INPLACE BITUMINDUS BASE

DETAIL B-EDGE JOINT



NOTE: NOT TO SCALE

CERTIFIED BY Andrew J. Witter

ANDREW J. WITTER, P.E.

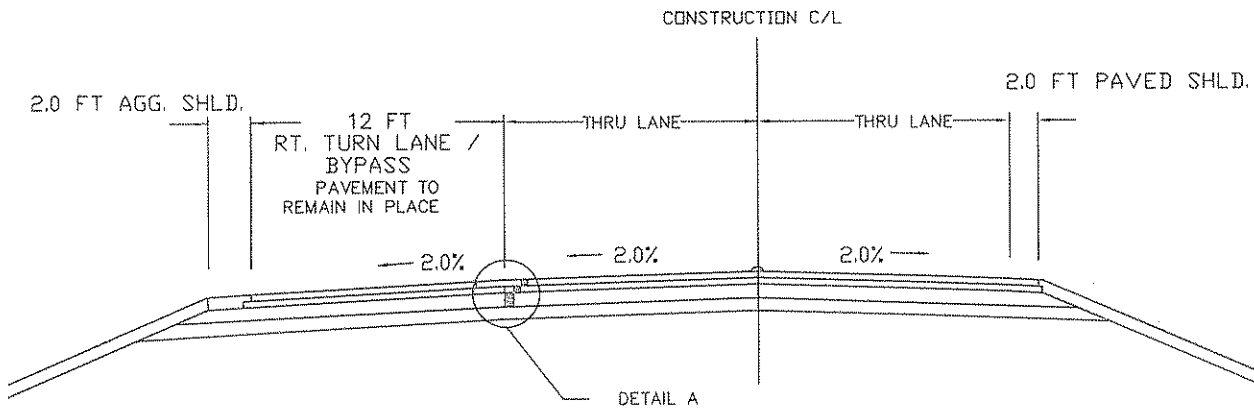
C.P. 06-37-18

LIC. NO. 42757 DATE 6/9/06

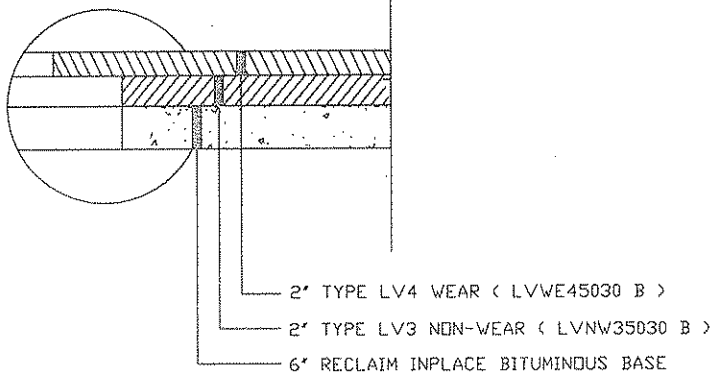
SHEET NO. 6 OF 13 SHEETS

# TYPICAL SECTIONS

## RT. TURN LN. / BYPASS SECTION



DETAIL A-PROPOSED MAINLINE



NOTE: NOT TO SCALE

CERTIFIED BY

*Andrew J. Witter*  
ANDREW J. WITTER, P.E.

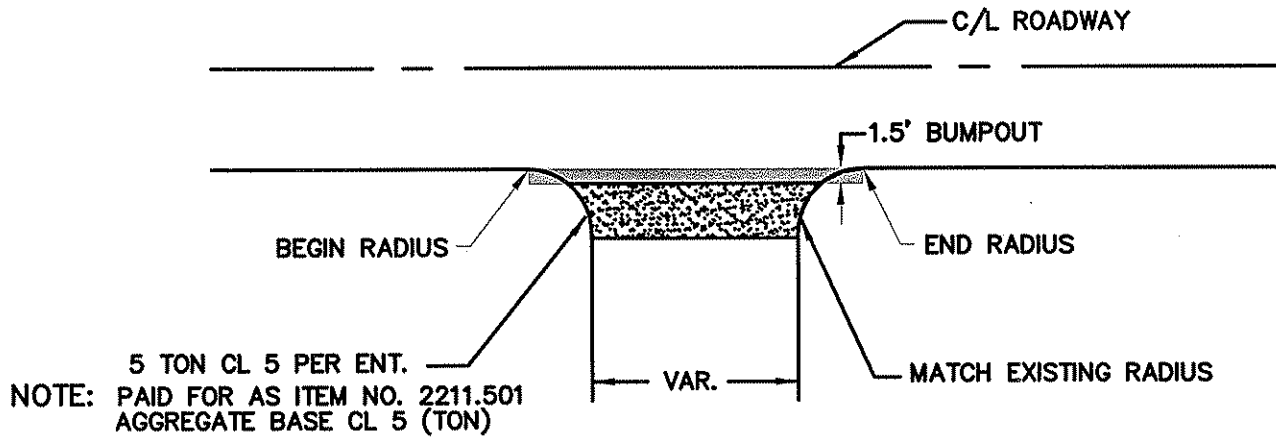
LIC. NO. 42757 DATE *6/1/06*

C.P. 06-37-18

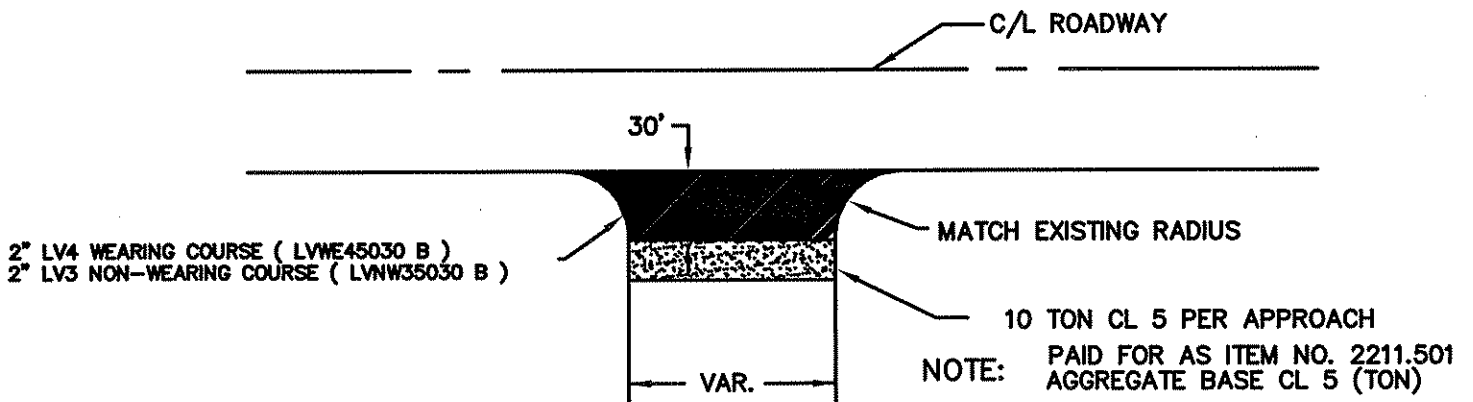
SHEET NO. 7 OF 13 SHEETS

# TYPICAL SECTIONS

## FIELD AND UNPAVED ENTRANCES



## UNPAVED STREET APPROACHES



NOTE: NOT TO SCALE

CERTIFIED BY

*Andrew J. Witter*  
ANDREW J. WITTER, P.E.

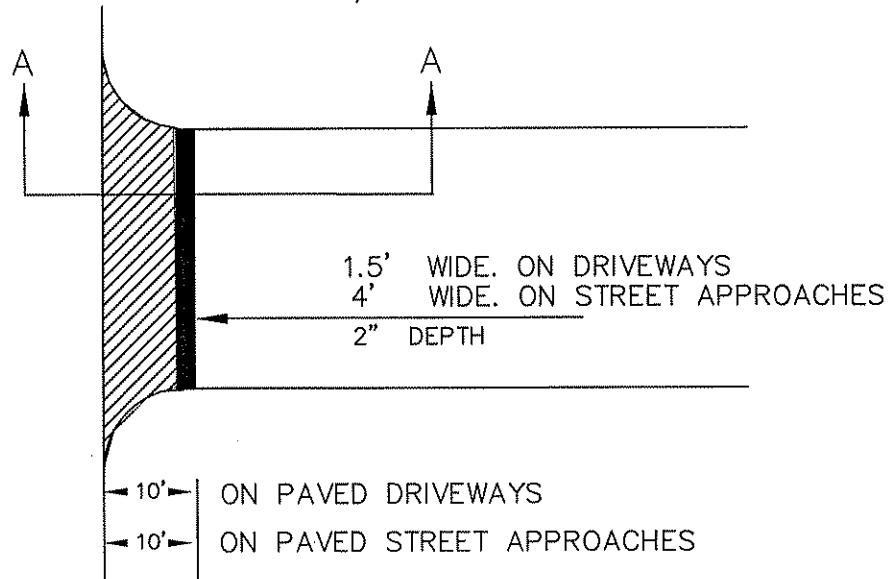
LIC. NO. 42757 DATE 6/9/06

C.P. 06-37-18

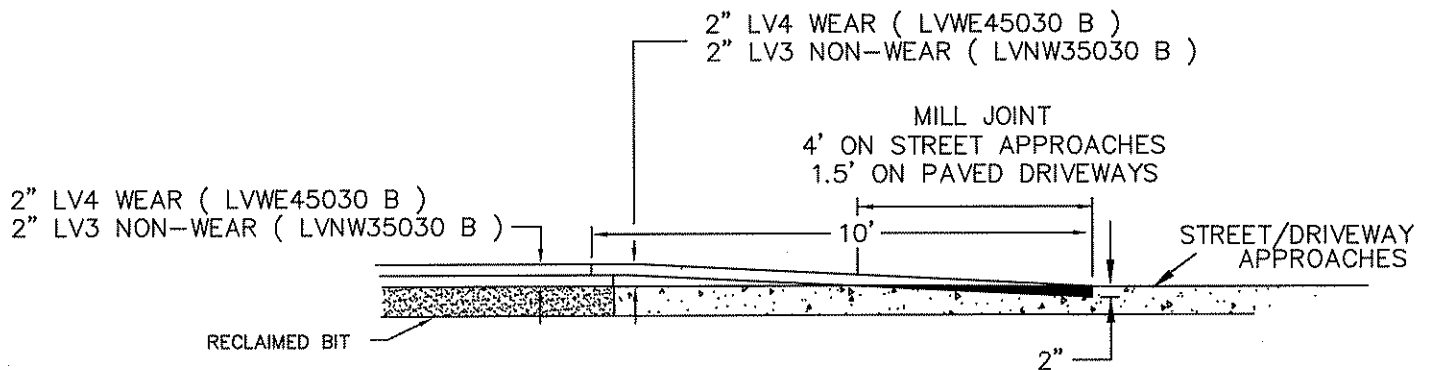
SHEET NO. 8 OF 13 SHEETS

# TYPICAL SECTIONS

## JOINT DETAILS DRIVEWAYS/STREET APPROACHES



## JOINT DETAILS DRIVEWAYS/STREET APPROACHES



NOTE: NOT TO SCALE

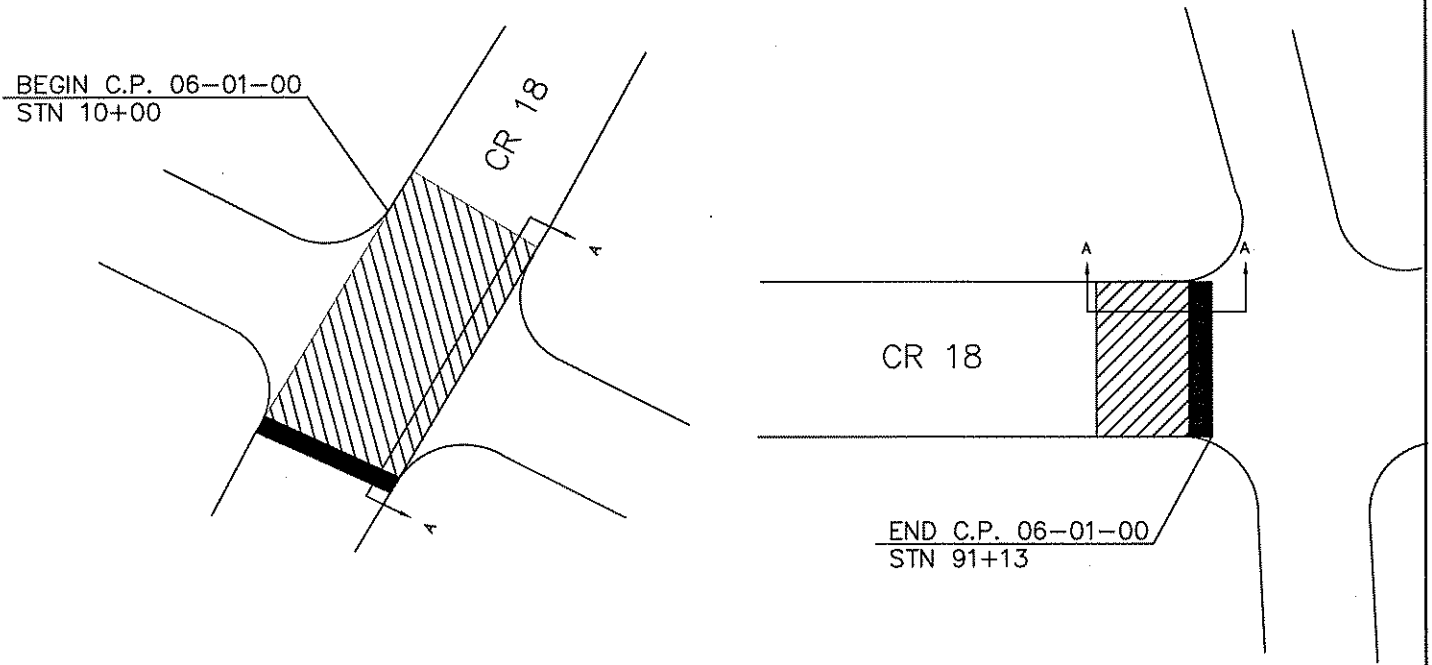
CERTIFIED BY Andrew J. Witter  
ANDREW J. WITTER, P.E.  
C.P. 06-37-18

LIC. NO. 42757 DATE 6/9/06  
SHEET NO. 9 OF 13 SHEETS

# TYPICAL SECTIONS

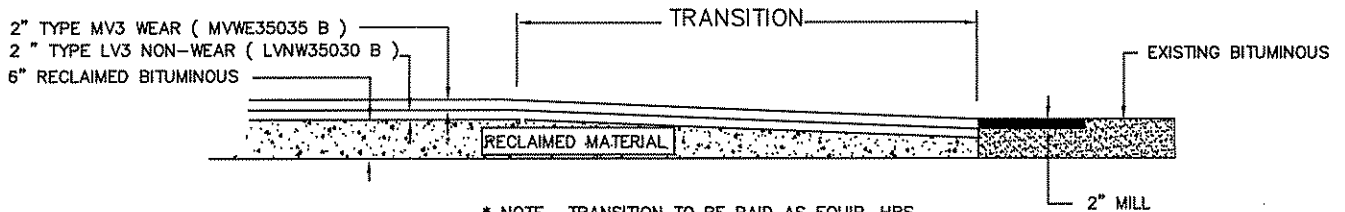
## TRANSITION DETAIL

TRANSITION LENGTH TO BE DETERMIND BY ENGINEER.



## TRANSITION DETAIL A - A

TRANSITION LENGTH TO BE DETERMIND BY ENGINEER.



\* NOTE- TRANSITION TO BE PAID AS EQUIP. HRS FOR MOTOR GRADER & ROLLER TO MOVE AND COMPACT RECLAIMED MATERIAL FOR JOINT.

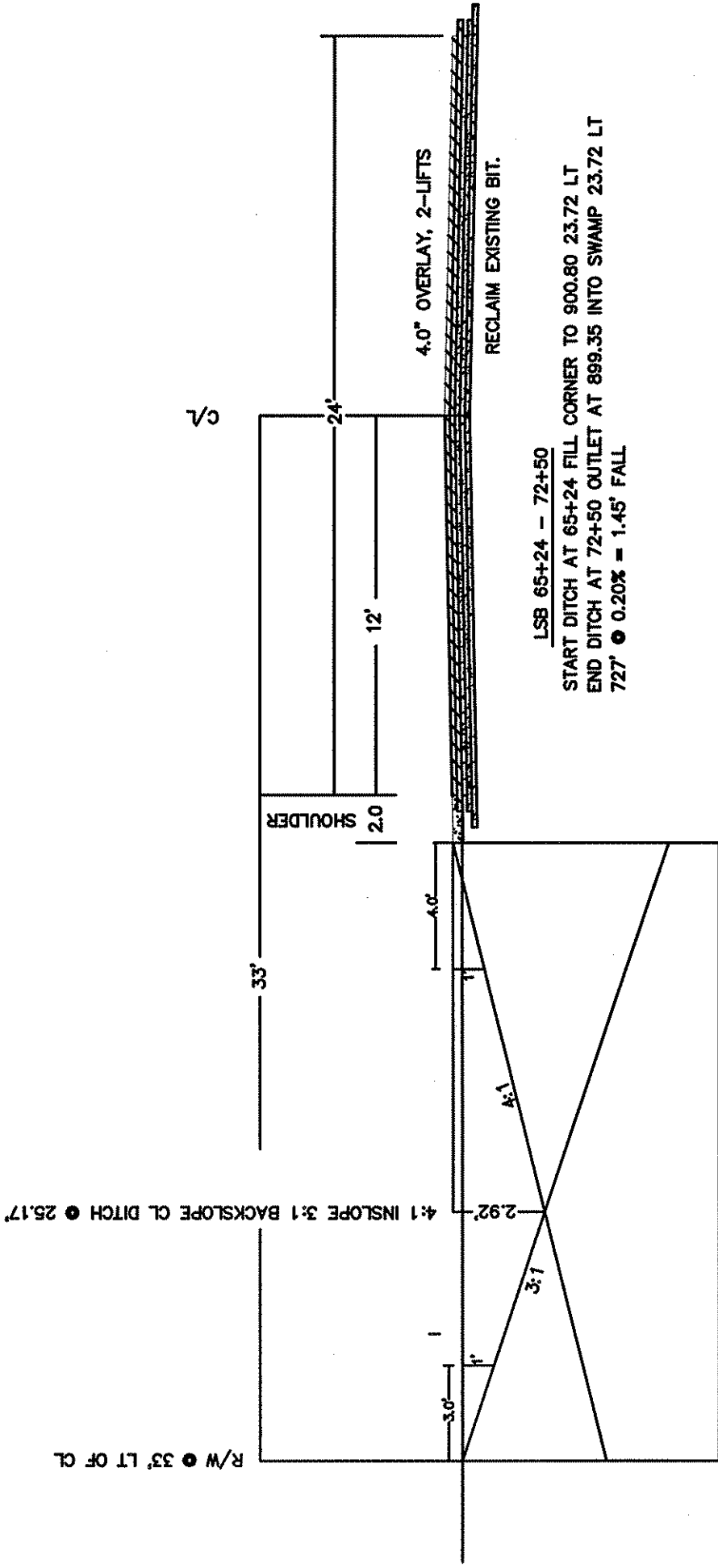
NOTE: NOT TO SCALE

CERTIFIED BY Andrew J. Witter  
 ANDREW J. WITTER, P.E.  
 C.P. 06-37-18

LIC. NO. 42757 DATE 6/9/00  
 SHEET NO. 10 OF 13 SHEETS







4:1 INSLOPE 3:1 BACKSLOPE CL DITCH @ 25.17'

R/W @ 33' LT OF CL

LSB 65+24 - 72+50

START DITCH AT 65+24 FILL CORNER TO 900.80 23.72 LT  
 END DITCH AT 72+50 OUTLET AT 899.35 INTO SWAMP 23.72 LT  
 727' @ 0.20% = 1.45' FALL

NO.	DATE	BY	CHK	APPR	REVISION	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 LICENSED PROFESSIONAL ENGINEER IN THE STATE OF MINNESOTA. PRINT NAME: _____ SIGNATURE: _____ DATE: _____ LICENSE NO.: _____										
ANOKA COUNTY HIGHWAY DEPT. STATE PROJECT NO. _____ STATE AID PROJECT NO. _____ COUNTY PROJECT NO. 02-37-18										
PLAN SHEET STA 65+24 TO 72+50 Sheet 12 of 13 Sheets										