

ANOKA COUNTY HIGHWAY DEPARTMENT

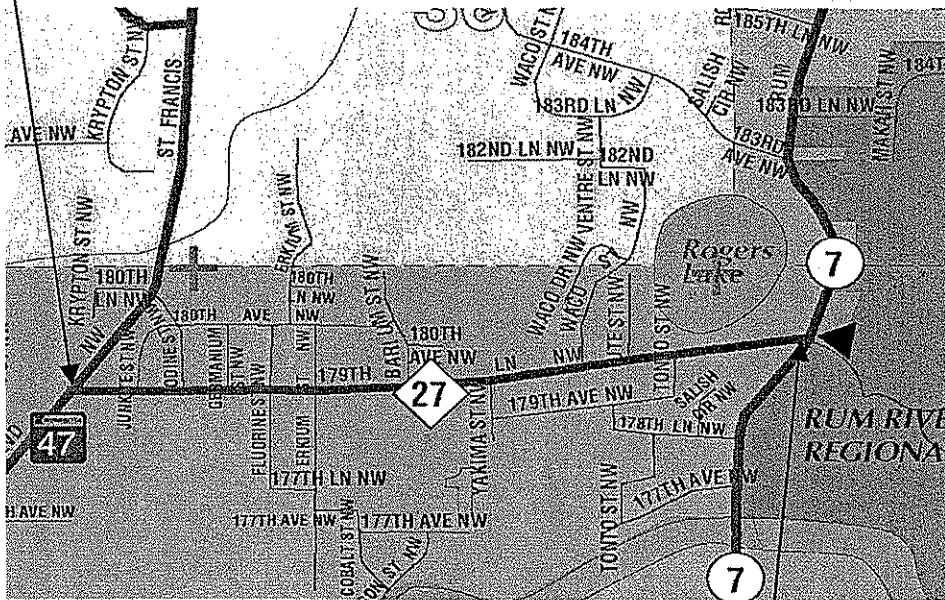
CONSTRUCTION PLAN FOR:

BITUMINOUS RECLAMATION, BIT
OVERLAY, RE-ALIGNMENT, BIT
CURB AND GRAVEL SHLD.

CR NO: 27
FROM T.H. 47
TO CSAH 7
FROM
TO

COUNTY PROJECT NO: 05-10-27
GROSS LENGTH 7172 FT 1.4 MI
BRIDGES LENGTH FT MI
EXCEPTION LENGTH FT MI
NET LENGTH 7172 FT 1.4 MI

BEGIN PROJECT C.P. 05-10-27 STATION 10+00



END PROJECT C.P. 05-10-27 STATION 81+72

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
ANDREW J. WITTER, P.E.

LIC. NO. 42757 DATE 4/14/05

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, INC. FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYDOWN JANUARY 2004.

APPROVED 4/15, 2005

[Signature]
ANOKA COUNTY ENGINEER

STATEMENT OF ESTIMATED QUANTITIES

ITEM NO.	ITEM	NOTE NO.	UNIT	QTY.
2021.501	MOBILIZATION		LUMP SUM	1
2104.503	REMOVE CONCRETE DRIVEWAY PAVEMENT		SQ YD	119
2104.511	SAWING CONCRETE PAVEMENT (FULL DEPTH)		LIN FT	107
2104.513	SAW BITUMINOUS FULL DEPTH		LIN FT	377
2105.501	COMMON EXCALVATION		CU YD	892
2105.525	TOPSOIL BORROW (LV)		CU YD	99
2123.503	MOTOR GRADER		HOUR	15
2123.521	PNEUMATIC-TIRED ROLLER		HOUR	15
2130.501	WATER		M-GAL	100
2211.501	AGGREGATE BASE CLASS-5		TON	1412
2221.609	AGGREGATE SHOULDERING CLASS-7B		TON	560
2232.501	MILL BITUMINOUS SURFACE (2")		SQ YD	305
2331.604	BITUMINOUS PAVEMENT RECLAMATION		SQ YD	29220
2357.502	BITUMINOUS MATERIAL FOR TACK COAT		GALLON	1082
2360.609	TYPE LV3 WEAR MIXTURE (LVWE35030 B)		TON	3037
2360.609	TYPE LV3 WEAR MIXTURE , ST APPR, ENT (LVWE35030 B)		TON	122
2360.609	TYPE LV3 NON-WEAR MIXTURE (LVNW35030 B)		TON	2272
2360.609	TYPE LV3 NON-WEAR MIXTURE, ST APPR., ENT. (LVNW35030 B)		TON	124
2531.507	6" CONCRETE DRIVEWAY PAVEMENT		SQ YD	119
2535.501	BITUMINOUS CURB		LIN FT	1609
2540.602	INSTALL MAIL BOX SUPPORT		EACH	31
2563.601	TRAFFIC CONTROL		LUMP SUM	1
2564.603	4" SOLID LINE WHITE - EPOXY		LIN FT	14080
2564.603	4" BROKEN LINE YELLOW - EPOXY		LIN FT	1260
2564.603	4" SOLID LINE YELLOW - EPOXY		LIN FT	1100
2564.603	4" DOUBLE SOLID LINE YELLOW - EPOXY		LIN FT	31
2575.501	SEEDING		ACRE	0.20
2575.502	SEED MIXTURE 50 B		POUND	10
2575.505	SODDING TYPE SALT RESISTANT		SQ YD	894
2575.511	MULCH MATERIAL TYPE 3		TON	0.80
2575.519	DISK ANCHORING		ACRE	0.20
2575.531	COMMERCIAL FERTILIZER 22-5-10		POUND	95
2580.501	REMOVABLE LANE TAPE		LIN FT	1148

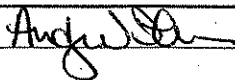
BASIS OF PLANNED QUANTITIES

2211.501	AGGREGATE BASE CLASS 5	CU YDS * 1.8 = TONS
2221.609	AGGREGATE SHOULDERING CLASS 7	CU YDS * 1.8 = TONS
2357.502	BITUMINOUS MATERIAL FOR TACK COAT	.05 GAL / SQ YD
2360.609	TYPE MV3 WEARING COURSE MIXTURE (MVWE35035 B)	110 LBS / SQ YD / IN THICKNESS
2360.609	TYPE LV3 NON-WEARING COURSE MIXTURE (LVNW35030 B)	110 LBS / SQ YD / IN THICKNESS
2575.502	SEED MIXTURE 50 B	50 LBS / ACRE
2575.531	COMMERCIAL FERTILIZER 22-5-10	500 LBS / ACRE
2580.501	REMOVABLE LANE TAPE	4' AT 50' INTERVALS FOR SKIPS

STANDARD DETAIL PLATES

PLATE NO.	DESCRIPTION
8000I	STANDARD BARRICADES

CERTIFIED BY



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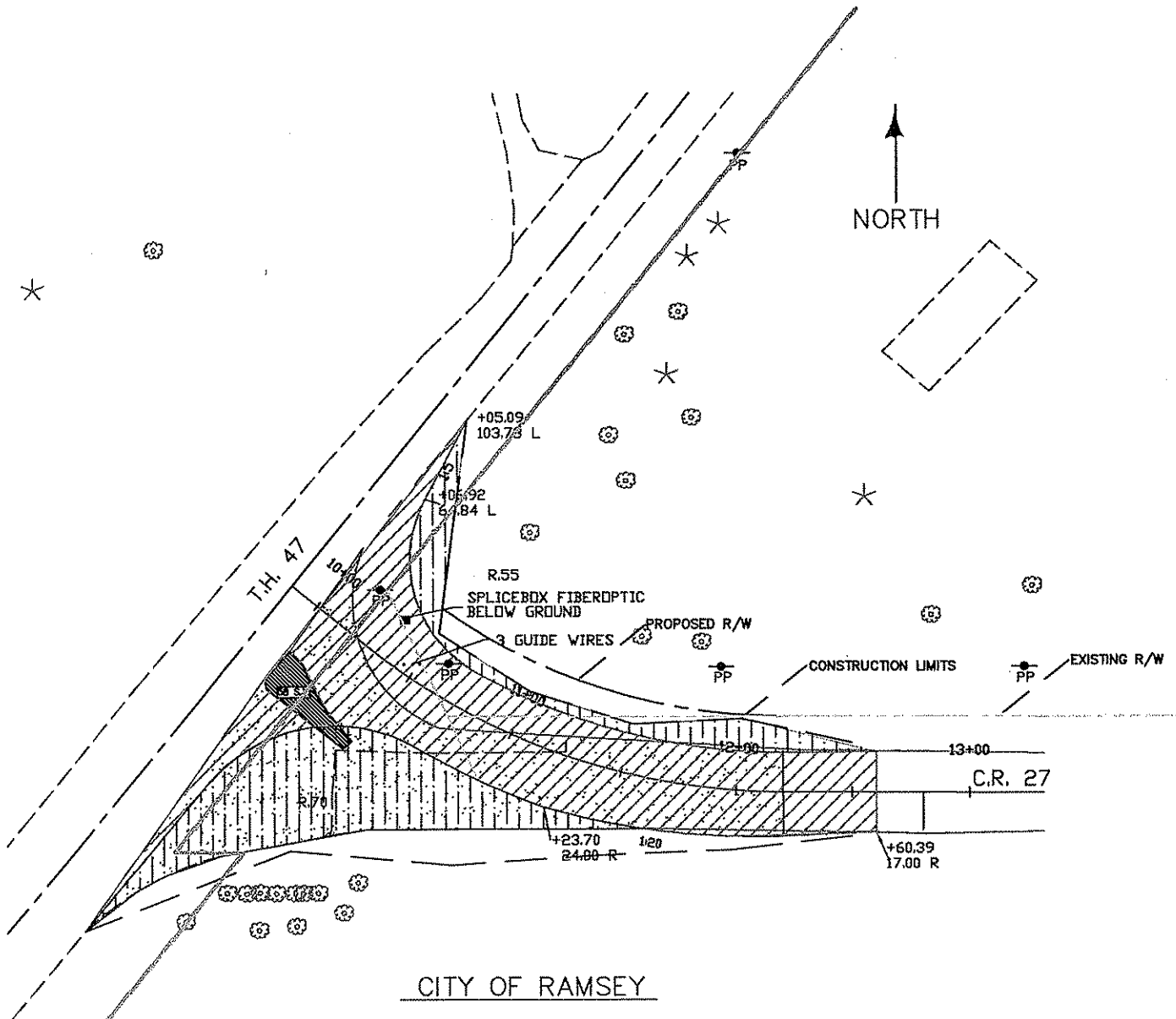
LIC. NO. 42757 DATE 4/14/05





PROJ. 05-10-27

SHEET NO. 2 OF 10 SHEETS

TYPICAL SECTIONS

TRANSITION DETAIL (PLAN VIEW)



-  CONSTRUCT NEW ALIGNMENT
-  RECLAIM AND REMOVE OLD ALIGNMENT
-  REMOVE CONCRETE ISLAND
-  SEED AREAS

NOTE: NOT TO SCALE

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C.P. 05-10-27

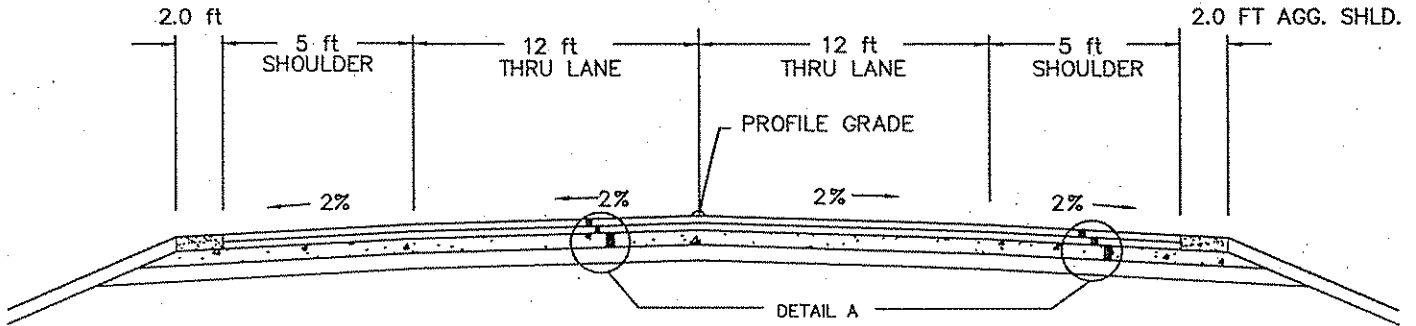
LIC. NO. 42757 DATE 4/14/05
SHEET NO. 3 OF 10 SHEETS

TYPICAL SECTIONS

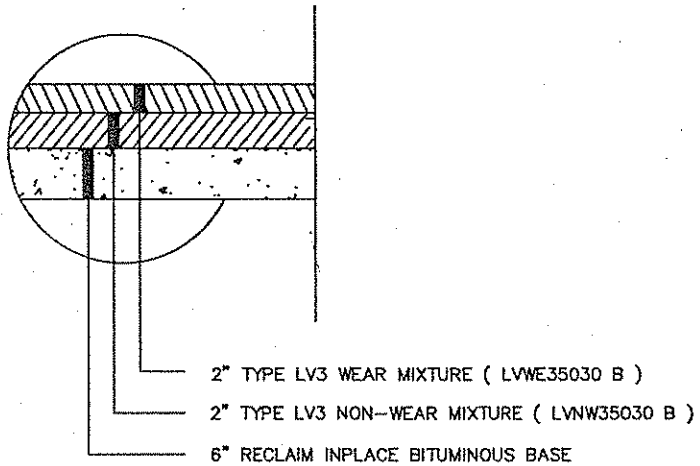
PROPOSED SECTION

CSAH 27
STA. 10+00 - 12+60

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DETAIL A-PROPOSED SECTION



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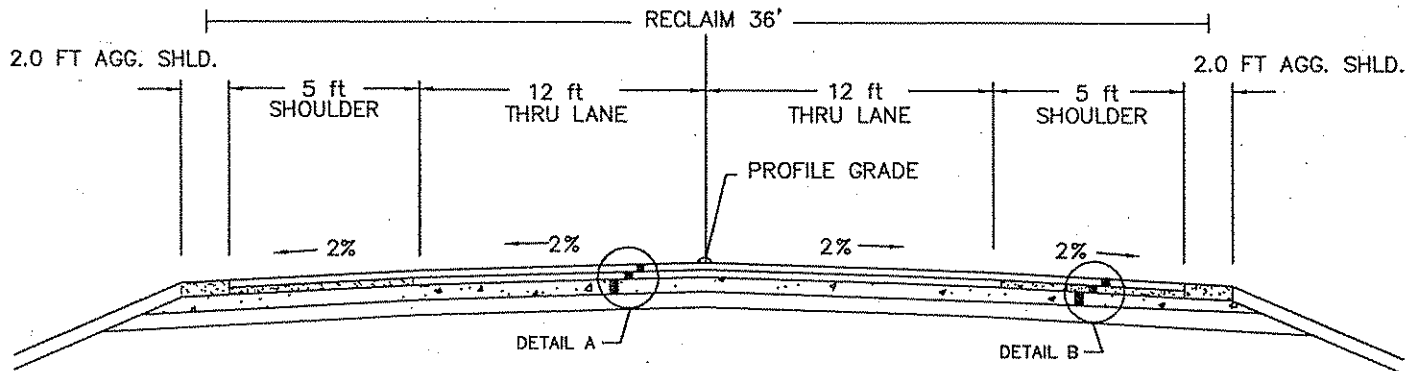
LIC. NO. 42757 DATE 4/14/05

SHEET NO. 4 OF 10 SHEETS

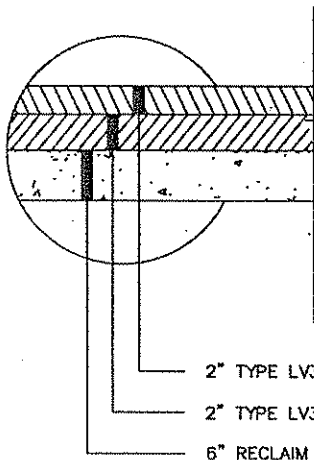
TYPICAL SECTIONS

PROPOSED SECTION

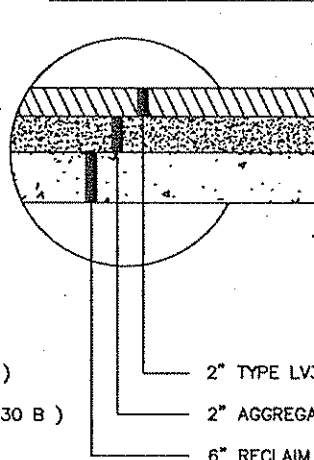
CSAH 27
STA. 12+60 - 81+72



DETAIL A-PROPOSED MAINLINE

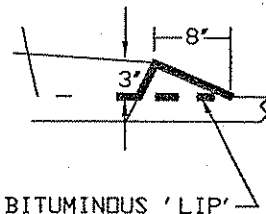


DETAIL B PROPOSED SHOULDER



BITUMINOUS CURB DETAIL

STATION 72+25 TO 81+00 LT & 74+30 TO 81+72 RT



EDGE OF ROAD AS SHOWN ON PLAN

- ① EXISTING BITUMINOUS LIP TO BE RECLAIMED WITH SHOULDER
- ② PROPOSED BITUMINOUS LIP TO BE PAID AS BITUMINOUS CURB, ITEM NO. 2535.501

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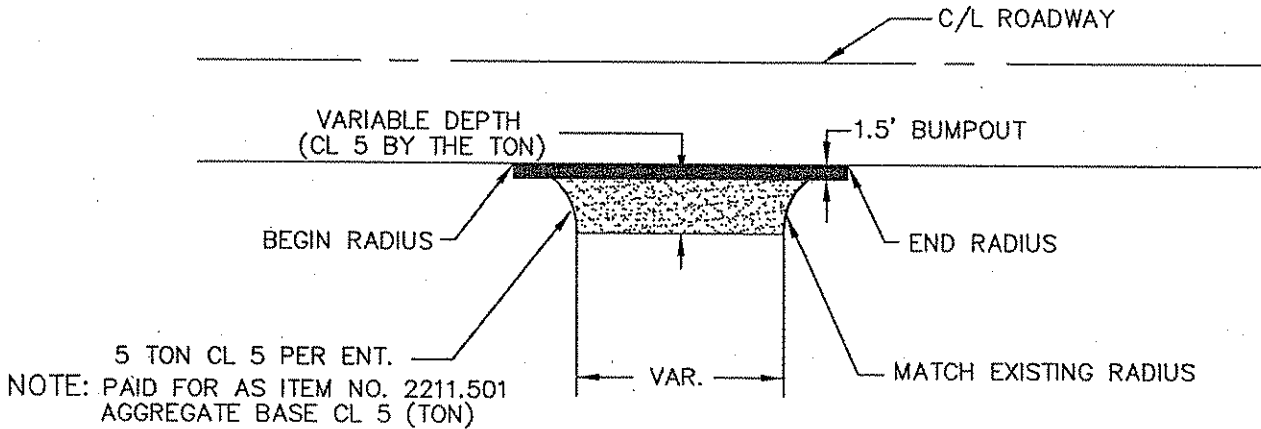
C.P. 05-10-27

LIC. NO. 42757 DATE 4/14/05

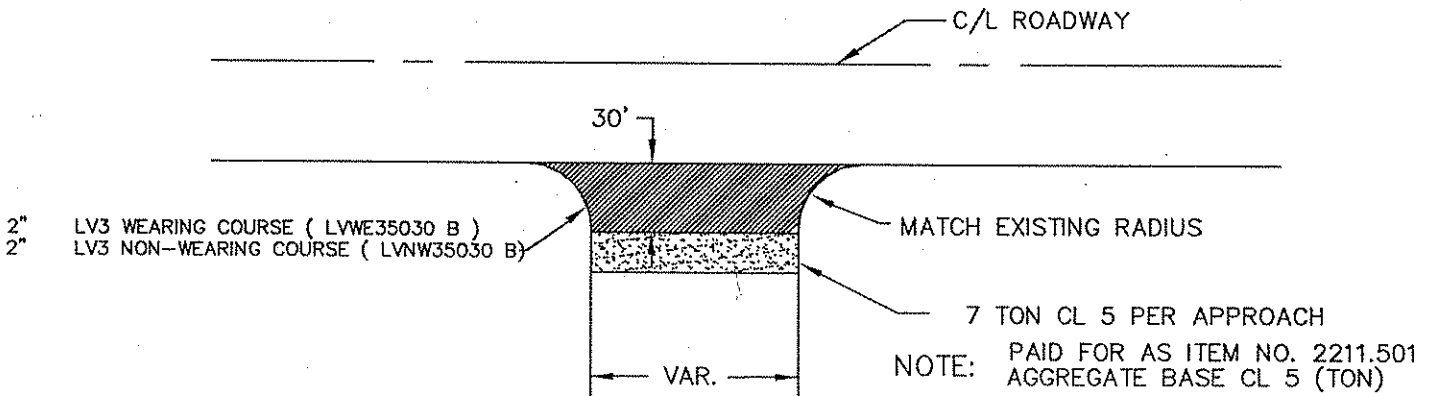
SHEET NO. 5 OF 10 SHEETS

TYPICAL SECTIONS

FIELD AND UNPAVED ENTRANCES



UNPAVED STREET APPROACHES



NOTE: NOT TO SCALE

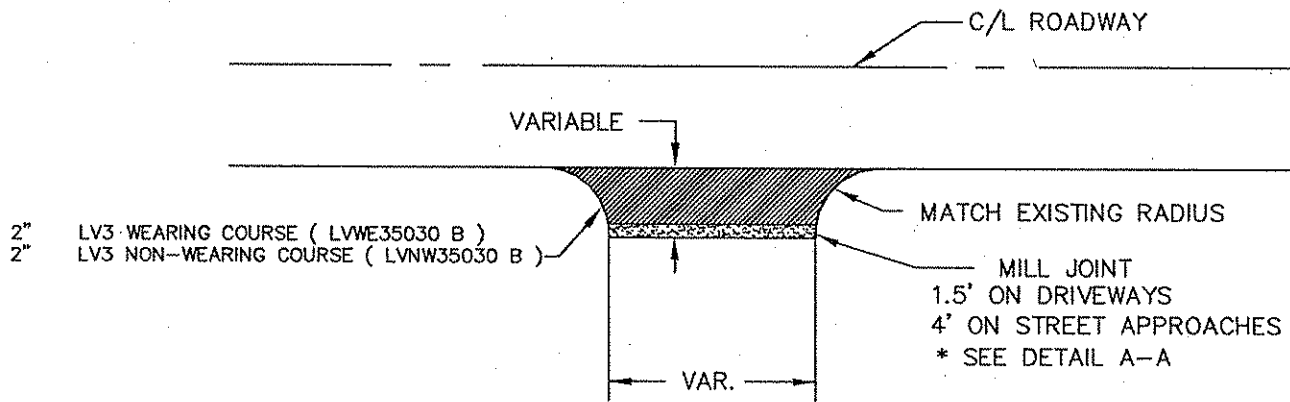
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ANDREW J. WITTER, P.E.

LIC. NO. 42757 DATE 4/14/08

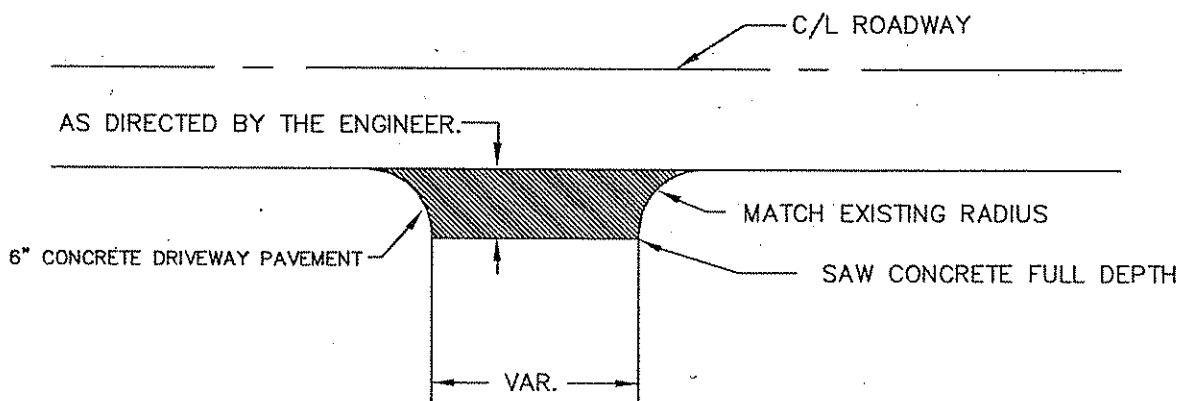
SHEET NO. 6 OF 10 SHEETS

TYPICAL SECTIONS

PAVED DRIVEWAYS/PAVED STREET APPROACHES



CONCRETE DRIVEWAYS



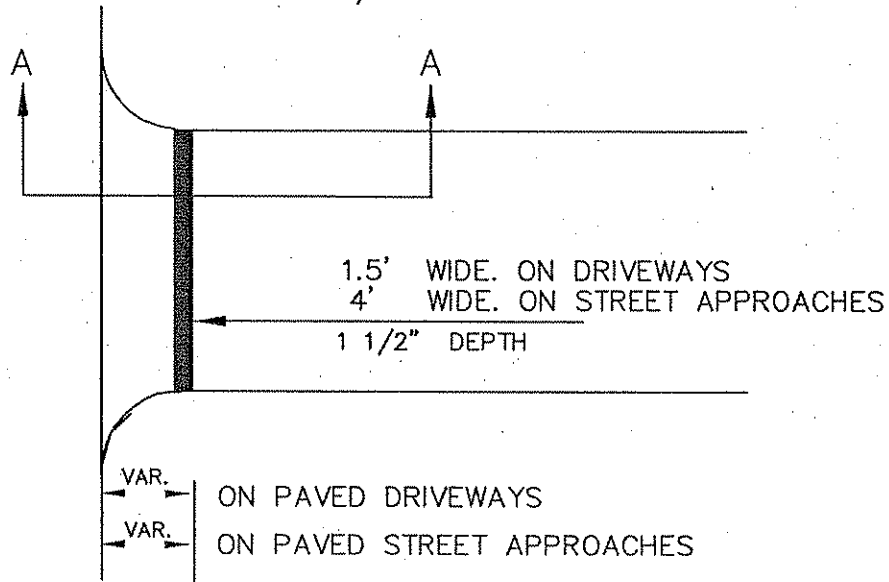
NOTE: NOT TO SCALE

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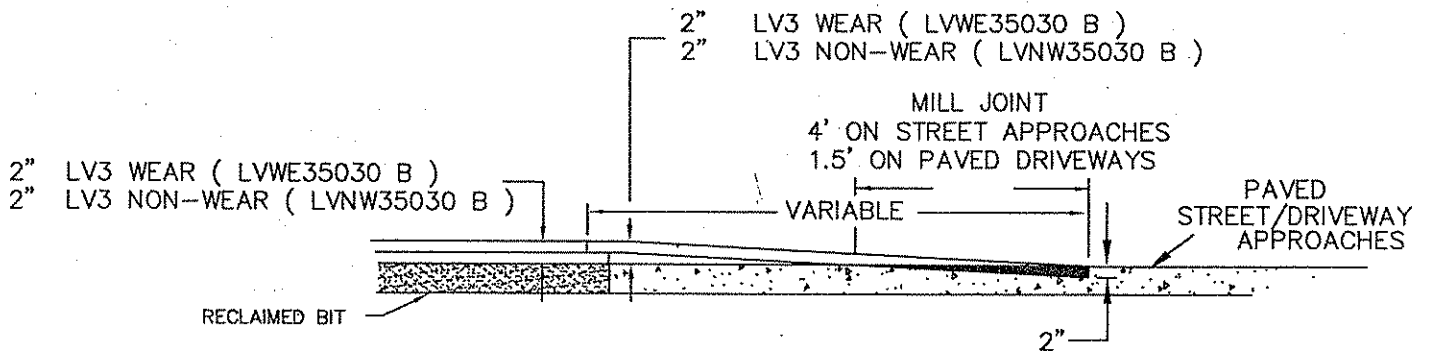
LIC. NO. 42757 DATE 4/14/05
SHEET NO. 7 OF 10 SHEETS

TYPICAL SECTIONS

JOINT DETAILS DRIVEWAYS/STREET APPROACHES



JOINT DETAILS DRIVEWAYS/STREET APPROACHES



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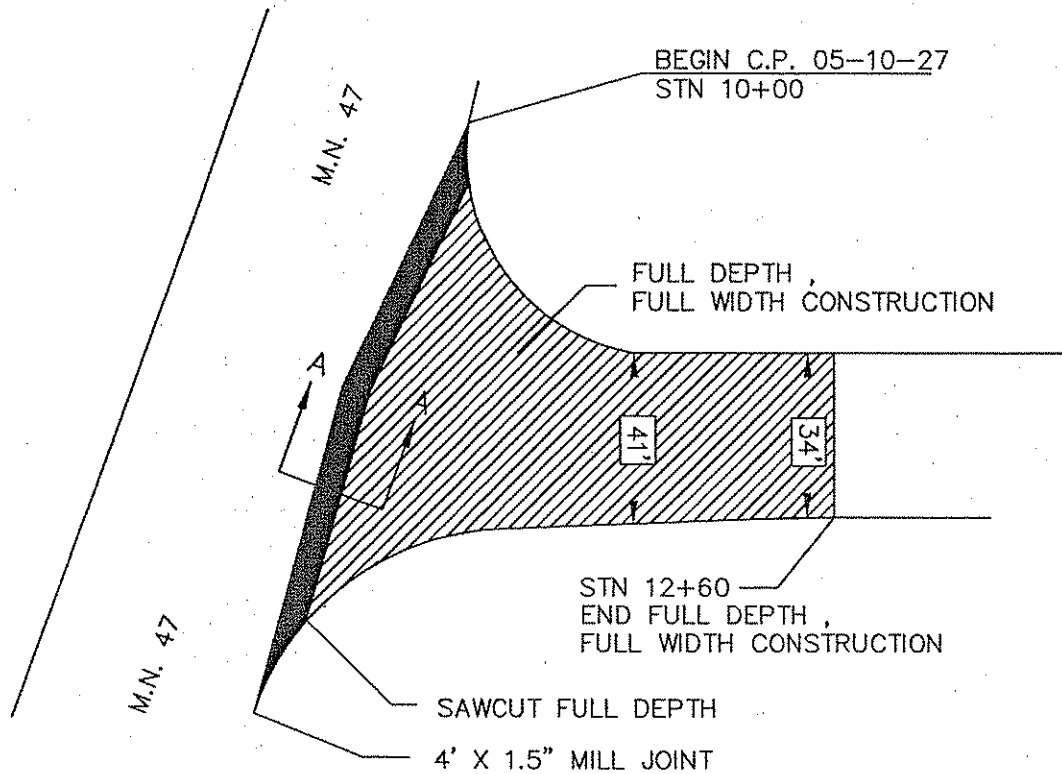
C.P. 05-10-27

LIC. NO. 42757 DATE 4/14/05

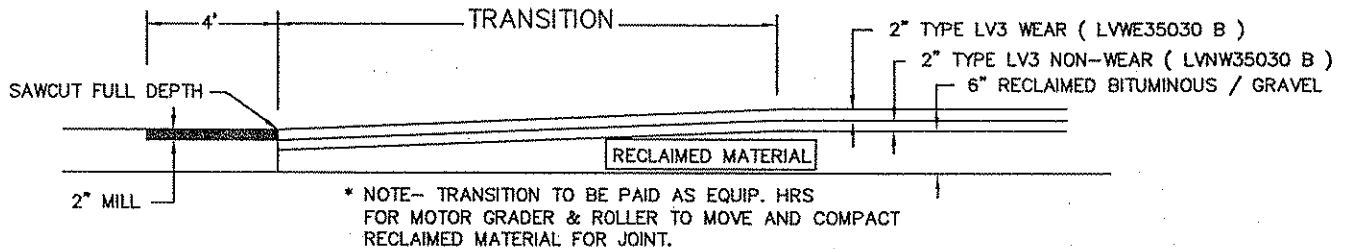
SHEET NO. 8 OF 10 SHEETS

TYPICAL SECTIONS

TRANSITION DETAIL (PLAN VIEW)



TRANSITION DETAIL A - A TRANSITION LENGTH TO BE DETERMINED BY ENGINEER.



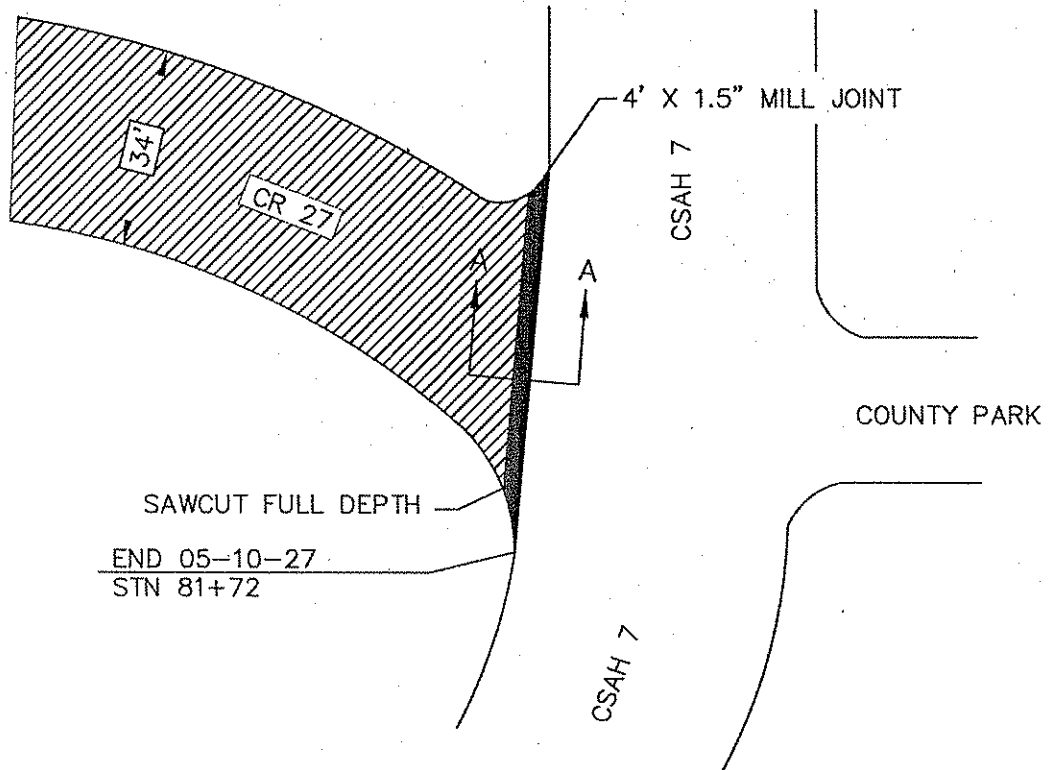
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LIC. NO. 42757 DATE 4/14/05
SHEET NO. 9 OF 10 SHEETS

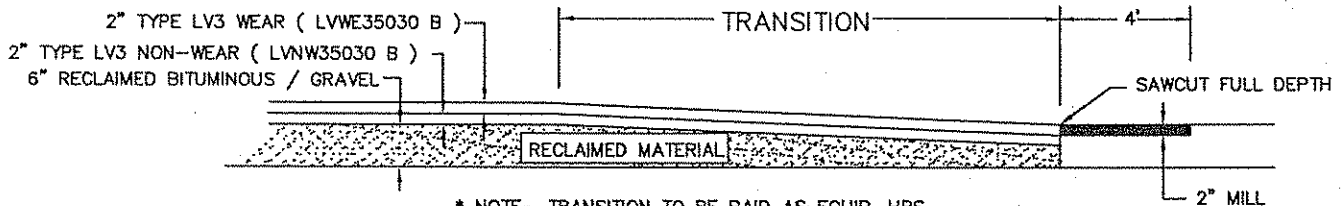
TYPICAL SECTIONS

TRANSITION DETAIL (PLAN VIEW)



TRANSITION DETAIL A - A

TRANSITION LENGTH TO BE DETERMINED 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

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LIC. NO. 42757 DATE 4/14/05
SHEET NO. 10 OF 10 SHEETS