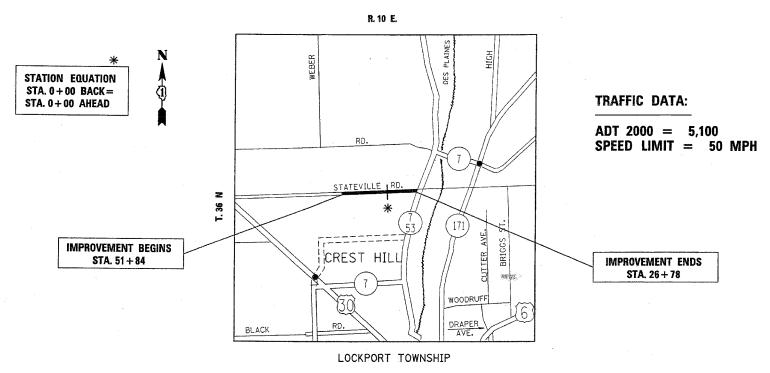
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE IMPROVEMENT IS LOCATED IN THE CITY OF CREST HILL

PLANS FOR PROPOSED HIGHWAY

FAU ROUTE 0291 (DIVISION STREET/STATEVILLE ROAD)
STATEVILLE ENTRANCE TO IL. 53
SECTION: 2003–096 RS
RESURFACING (MAINTENANCE)
WILL COUNTY
C-91-035-04



GROSS LENGTH OF IMPROVEMENT = 7862 FT. = 1.490 MILES

NET LENGTH OF IMPROVEMENT = 7862 FT. = 1.490 MILES

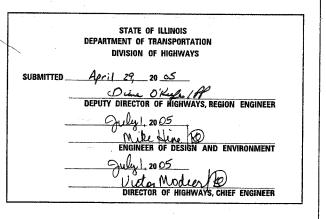
FAU SECTION COUNTY TOTAL SHEET NO.

O291 2003-096 RS WILL 29 1

CONTRACT* 62672

D-91-035-04





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

0 100' 200' 300' 1"= 100'
0 10' 20' 30' 1"= 10'
0 50' 100' 1"= 50'
0 50' 100' 1"= 40'
0 50' 100' 1"= 30'
0 50' 100' 1"= 30'

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

CONTRACT NO. 62672

3/16/2005 c:\projects\d103504\d103504aadgn

PLAN PREPARATION ENGINEER: KEN ENG /JENPAI CHANG (84)

FED. ROAD DIST. NO. 1		BLL SHOTS	5 51	D. AID PROJECT	
STA.		1	O STA.	-	
F. A. U. SECTION 0291 2003-096		6RS	WILL	.30	2
		٠.	COUNTY	TOTAL SHEETS	SHEE

CONTRACT #62672

INDEX OF SHEETS

SHEET	NO.	DESCRIPTION
	1	COVER SHEET
	2	INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES
	3	SUMMARY OF QUANTITIES
	4	TYPICAL SECTIONS
	5-7	RESURFACING AND PAVEMENT MARKING PLANS
•	8-14	DRAINAGE PLANS (CULVERT REPLACEMENT & DITCHES)
	15	EROSION CONTROL DETAILS & SCHEDULE
	16	TEMPORARY EASEMENT
	17	DELETED
	18	DETECTOR LOOP REPLACEMENT
	19	PAVEMENT PATCHING FOR BITUMINOUS SURFACED PAVEMENT
	20	BUTT JOINT AND BITUMINOUS TAPER DETAILS
	21	TRAFFIC CONTROL AND PROTECTION FOR SIDEROADS, INTERSECTIONS, AND DRIVEWAYS
	22	TYPICAL APPLICATIOS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)
	23	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
	24	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING
	25	TEMPORARY INFORMATION SIGNING
	26 ⁻ 29	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS
	30	DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING

	·
000001	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
442201	CLASS C AND D PATCHES
542001	REINFORCED CONCRETE END SECTIONS WITH PARALLEL WING WALLS FOR PIPE CULVERTS 12" THRU 48" DIA. AT RIGHT ANGLES WITH ROADWAY
701011	OFF-ROAD MOVING OPERATIONS 2L, 2W DAY ONLY FOR SPEED > 45MPH
701301	LANE CLOSURE, 2L 2W, SHORT TIME OPERATIONS
701306-01 701311	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS, DAY ONLY, SPEEDS >45 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS-DAY ONLY
702001	TRAFFIC CONTROL DEVICES
780001	TYPICAL PAVEMENT MARKINGS

STANDARDS

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 OR "CUAN" (CHICAGO UTILITY ALERT NETWORK), 312-744-7000 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOURS NOTIFICATION REQUIRED).

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE CITY OF CHICAGO.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 40 MM (1½INCHES) WHERE THE SPEED LIMIT IS 80 KM/H (45 MPH) OR LESS AND 25 MM (1 INCH) WHERE THE SPEED LIMIT IS GREATER THAN 80 KM/H (45 MPH). WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 75 MM (3 INCHES) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).

BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE "BUTT JOINT AND BITUMINOUS TAPER DETAILS "SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.

THE RESIDENT ENGINEER SHALL CONTACT MS. CORA MATHIS AREA TRAFFIC FIELD ENGINEER AT (815) 485-6475 AT LEAST TWO(2) WEEKS PRIOR TO INSTALLATION OF FINAL PAVEMENT MARKING.

REVISIONS
NAME DATE

INDEX OF SHEETS, STANDARDS, AND GENERAL NOTES

SCALE: VERT. 1"=50" DATE 4/28/2005

DRAWN BY CHECKED BY

F.A.U. RTE.	SECTION			COUNT	Y	TOTAL SHEETS	SHEET NO.
0291	2003-096	RS		WILI	-	30	3
FED.	ROAD DIST. NO. 1	ı	ILL	INOIS	HIG	HWAY PRO	JECT

 TETHIOTZ			-	ILCHWAI	PK
 	_	_			
CONTRACT	-			~ ^	

	SUMMARY OF QUANTITIES				CONSTRUCTIO	N TYPE CODE			SUMMARY OF QUANTITIES				CON	STRUCTION T	TYPE CODE	
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	URBAN 100% STATE IOOO				CODE NO	ITEM	UNIT	TOTAL QUANTITIES	URBAN 100% STATE 1000				
20201006 20300100	GRADING AND SHAPING SHOULDERS CHANNEL EXCAVATION	UNIT CU YD	149 14	149				70100460 70300100	TRAFFIC CONTROL AND PROTECTION STANDARD 701306 SHORT-TERM PAVEMENT MARKING	L SUM FOOT	l 2445	l 2445				
20800150	TRENCH BACKFILL	CU YD	5	5				70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	18016	18016				
21101615	TOPSOIL FURNISH AND PLACE, 4" GRADING AND SHAPING DITCHES	SQ YD FOOT	48 750	48 750				70300280	TEMPORARY PAVEMENT MARKING	FOOT	15	15			-	
25000210	SEEDING, CLASS 2A	ACRE	0. 21	0. 21				70301000	- LINE 24" WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	814	814				
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	20	20		* .	Sac 20 .	* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	18016	18016				
25000500	PHOSPHORUS FERTILIZER NUTRIENT POTASSIUM FERTILIZER NUTRIENT	POUND	20 20	20				¥ 78000650	THERMOPLASTIC PAVEMENT MARKING	FOOT	15	15				
25100630	EROSION CONTROL BLANKET	SQ YD	1031	1031				* 78100100	- LINE 24" RAISED REFLECTIVE PAVEMENT MARKER	EACH	107	107				
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	22	22				* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	226	226				
0000088	TEMPORARY DITCH CHECKS	EACH	15	15				X0300894	PIPE CULVERT REMOVAL 18"	FOOT	36	36				
8000500	INLET AND PIPE PROTECTION	EACH	2	2				X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	52	52				
800100	AGGREGATE (EROSION CONTROL)	TON	26	26				X4066424	BITUMINOUS CONCRETE SURFACE COURSE,	TON	1609	1609				
28200 2 00	FILTER FABRIC	SQ YD	12	12			-		SUPERPAVE, MIX "D", N50							
10600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	8	8				X4066614	BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19, N50	TON	329	329				
0600300	AGGREGATE (PRIME COAT)	TON	39	39				X4067100	POLYMERIZED LEVELING BINDER (MACHINE	TON	790	790				
0600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	2	2				70012709	METHOD), SUPERPAVE, IL-4.75, N50		<u>.</u>					-
0600895	CONSTRUCTING TEST STRIP	EACH	1	1				200[3 148	CONSTRUCTION LAYOUT	L SUM	l l	1				
0600980	BITUMINOUS SURFACE REMOVAL - BUTT JOINT	SQ YD	41	41												
4000100	PAVEMENT REMOVAL	SQ YD	16	16												
4201717	CLASS D PATCHES, TYPE II, 6 INCH	SQ YD	1152	1152												
4201721	CLASS D PATCHES, TYPE III, 6 INCH	SQ YD	32	32												
4201723	CLASS D PATCHES, TYPE IV, 6 INCH	SQ YD	643	643												
8101200	AGGREGATE SHOULDERS, TYPE B	TON	403	403								ļ				
4200439	PIPE CULVERTS, TYPE 1 RCCP 24"	F00T	29	29												
0200100	STRUCTURE : EXCAVATION	CU. YD.	13	13					* SPECIALTY ITEMS							
	CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 24"	EACH	2	2												
7000400	ENGINEER'S FIELD OFFICE, TYP. A	CAL. MO.	3	3												
7100100	MOBILIZATION	L SUM	1	1												

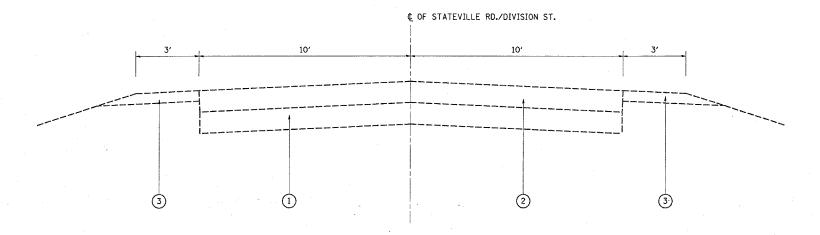
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION	
NAME .	DATE	SUMMARY OF QUANTITIES	
- · · · · · · · · · · · · · · · · · · ·		DIVISION ST./STATEVILLE RD.	
		PLOT DATE: 4/28/2005	

F.A.U. SECTION COUNTY

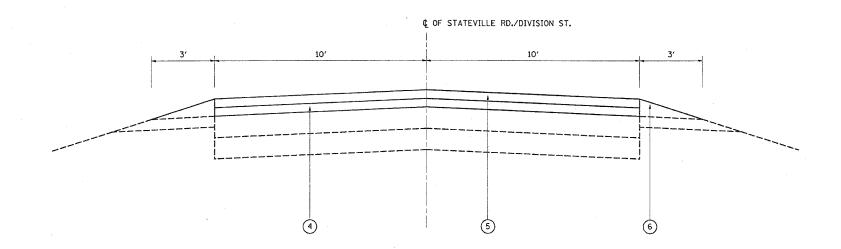
0291 2003-096RS WILL

STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

CONTRACT NO.:62672



EXISTING TYPICAL SECTION STATEVILLE RD./DIVISION ST.



PROPOSED TYPICAL SECTION STATEVILLE RD./DIVISION ST.

LEGEND

- 1 EXISTING AGGREGATE BASE
- 2 EXISTING BITUMINOUS SURFACE, VARIES 4" TO 6"
- (3) EXISTING AGGREGATE SHOULDER
- 4) PROPOSED POLYMERIZED LEVELING BINDER (MM) SUPERPAVE, IL-4.75, N50,34"
- 5) PROPOSED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE MIX, "D", N50, 11/2"

 (6) PROPOSED AGGREGATE SHOULDER, TYPE "B", 21/4"

BITUMINOUS MIXTURE REQUIREMENTS

MIXTURE	PG	MAX RAP. (%)	AIR VOIDS (%)
BITUMINOUS CONC. SURFACE COURSE SUPERPAVE, MIX "D" N50	PG 64-22	15%	4% @ 50 GYR.
POLYMERIZED LEVELING BINDER (MACHINE METHOD), SUPERPAVE IL-4.75, N50	SPG/SBR 76-28	0%	2.5% @ 50 GYR.
BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19, N50	PG 58-22	25%	4% @ 50 GYR.
CLASS D PATCHING, 6"	PG 64-22	15%	4% @ 70 GYR.

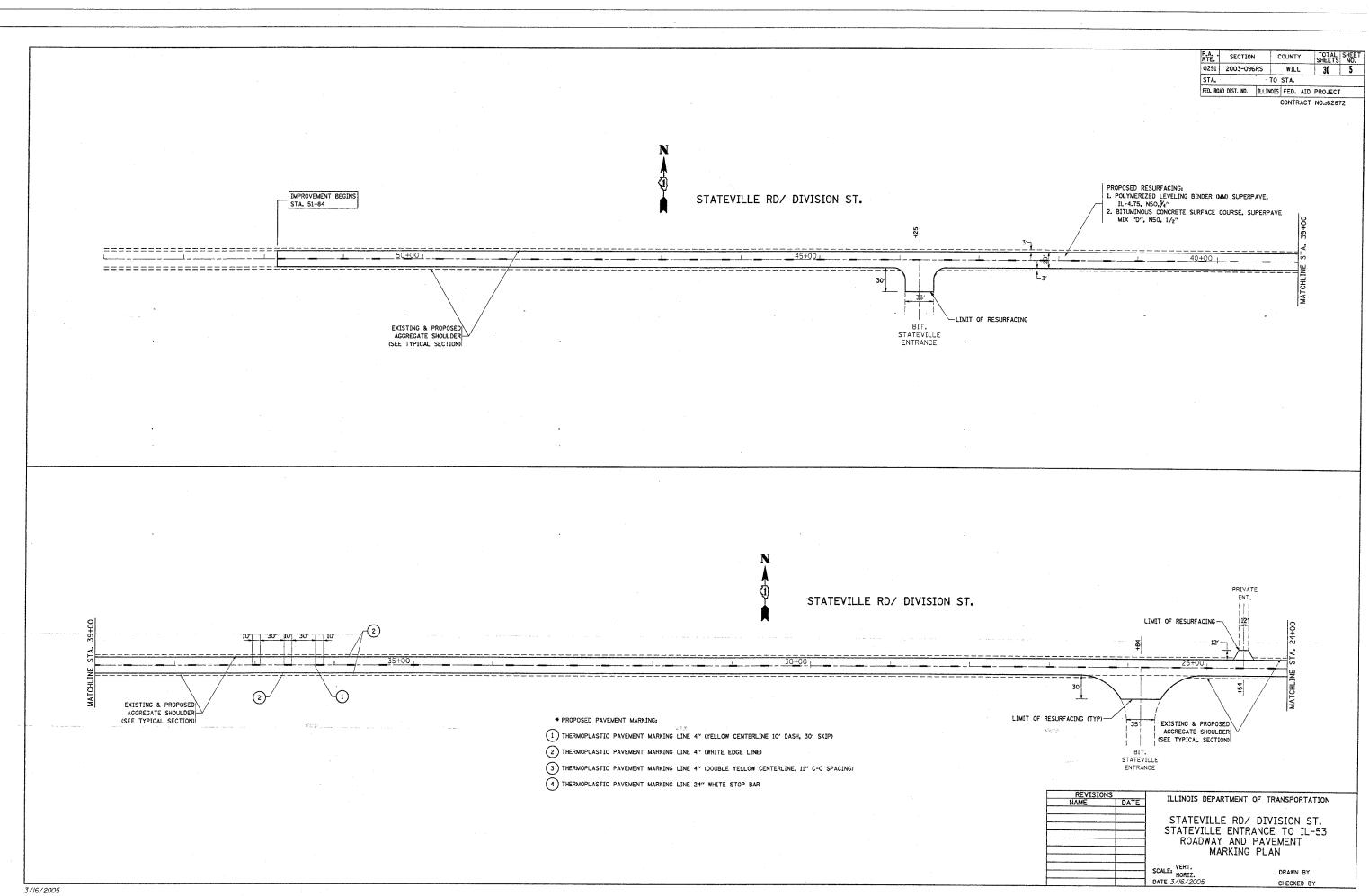
NOTE: THE UNIT WEIGHT USED TO CALCULATE ALL BITUMINOUS SURFACE MIXTURE IS 112 LBS./SQ. YD./IN.

	TILINOTS DEPARTMEN	NT OF TRANSPORTATION
DATE	TELLINOIS DEFAITINE	NI OF TRANSFORTATION
	STATEVILLE EN EXISTING	D./ DIVISION ST. ITRANCE TO IL-53 & PROPOSED L SECTION
	SCALE: VERT. NONE HORIZ. DATE 4/27/2005	DRAWN BY CHECKED BY
	DATE	STATEVILLE R STATEVILLE EN EXISTING TYPICAL SCALE: VERT. NONE

4/27/2005

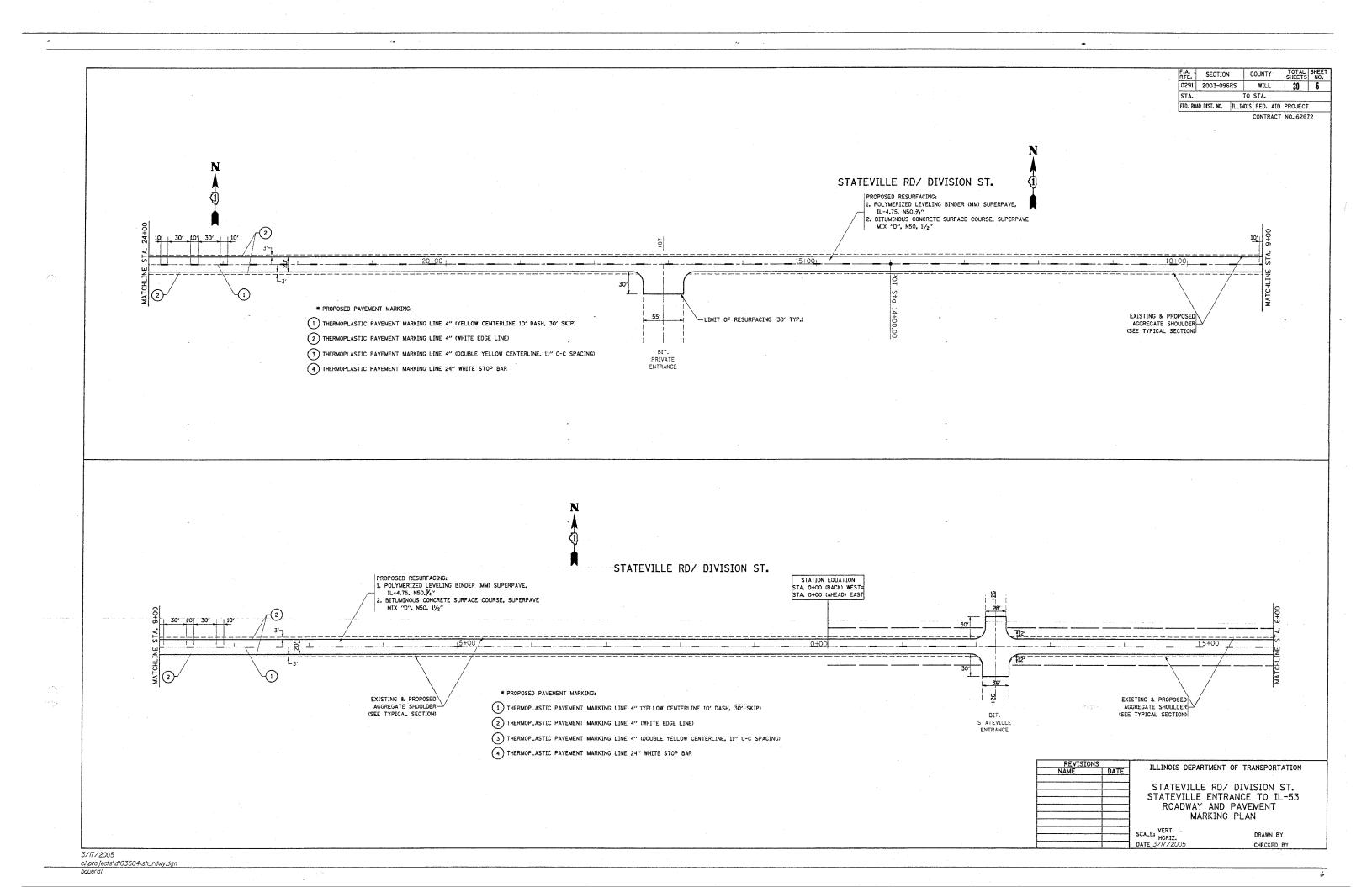
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F.A. SECTION 0291 2003-096RS COUNTY WILL TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT CONTRACT NO.:62672 EXISTING 18" PIPE CULVERT TO BE REPLACED WITH PIPE CULVERT, TYPE 1 RCCP 24", WITH PARALLEL WING WALL (STD. 542001) AT STA 19+91 PROPOSED RESURFACING:

1. POLYMERIZED LEVELING BINDER (MM) SUPERPAVE,

IL-4.75, N50,¾"

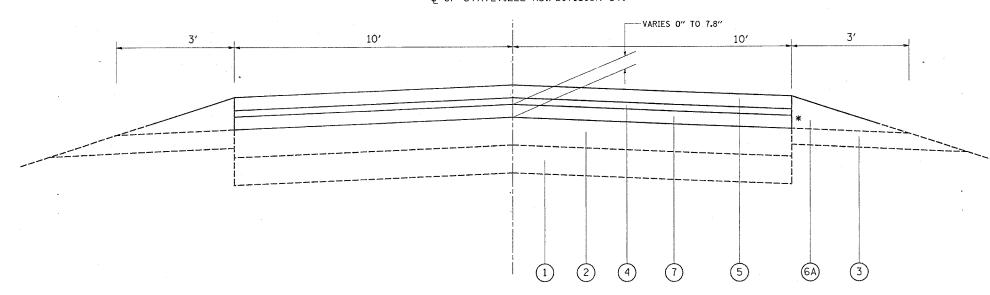
2. BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE STATEVILLE RD/ DIVISION ST. MIX "D", N50, 11/2" 2 EXISTING & PROPOSED AGGREGATE SHOULDER (SEE TYPICAL SECTION) * PROPOSED PAVEMENT MARKING: EXISTING & PROPOSED AGGREGATE SHOULDER (SEE TYPICAL SECTION) 1) THERMOPLASTIC PAVEMENT MARKING LINE 4" (YELLOW CENTERLINE 10' DASH, 30' SKIP) 2 THERMOPLASTIC PAVEMENT MARKING LINE 4" (WHITE EDGE LINE) (3) THERMOPLASTIC PAVEMENT MARKING LINE 4" (DOUBLE YELLOW CENTERLINE, 11" C-C SPACING) 4 THERMOPLASTIC PAVEMENT MARKING LINE 24" WHITE STOP BAR STATEVILLE RD/ DIVISION ST. IMPROVEMENT END RIE STA. 26+78 PROPOSED RESURFACING POLYMERIZED LEVELING BINDER (MM) SUPERPAVE, IL-4.75, N50,¾" BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE MIX "D", N50, 11/2" * PROPOSED PAVEMENT MARKING: 1 THERMOPLASTIC PAVEMENT MARKING LINE 4" (YELLOW CENTERLINE 10' DASH, 30' SKIP) 2 THERMOPLASTIC PAVEMENT MARKING LINE 4" (WHITE EDGE LINE) 3 THERMOPLASTIC PAVEMENT MARKING LINE 4" (DOUBLE YELLOW CENTERLINE, 11" C-C SPACING) 4 THERMOPLASTIC PAVEMENT MARKING LINE 24" WHITE STOP BAR ILLINOIS DEPARTMENT OF TRANSPORTATION STATEVILLE RD/ DIVISION ST. STATEVILLE ENTRANCE TO IL-53 ROADWAY AND PAVEMENT MARKING PLAN SCALE: VERT. HORIZ. DATE 3/24/2005 DRAWN BY CHECKED BY 3/24/2005 c:\projects\di03504\sh_rdwy.dgn

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 F.A.U. RTE.	SECTION		¢	OUNT	Ý	TOTAL	SHEE NO.
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FED. ROA	D DIST. NO.	ILLINO	IS	FED.	AID	PROJECT	Γ

CONTRACT NO.:62672

¢ OF STATEVILLE RD./DIVISION ST.

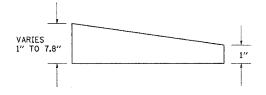


PROPOSED TYPICAL SECTION FOR RAISED PROFILE FROM STA. 17+50 TO STA. 22+50

LEGEND

- 1 EXISTING AGGREGATE BASE
- 2 EXISTING BITUMINOUS SURFACE, VARIES 4" TO 6"
- 3 EXISTING AGGREGATE SHOULDER
- PROPOSED POLYMERIZED LEVELING BINDER (MM) SUPERPAVE, IL-4.75, N50,3/4"
- 5 PROPOSED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE MIX, "D", N50, 11/2"
- (6A) PROPOSED AGGREGATE SHOULDER, TYPE "B", THICKNESS VARIES 1" TO 7.8" (* SEE DETAIL)
- PROPOSED BITUMINOUS CONCRETE BINDER COURSE SUPERPAVE, IL-19, N50 (THICKNESS VARIES 0" TO 7.8")

* DETAIL: PROPOSED AGGREGATE SHOULDER, TYPE "B"



REVISIONS		THE THINTS DEPARTMEN	IT OF TRANSPORTATION
NAME	DATE	ILLINOIS DEI ANTINIEN	O MANS ON ATION
		STATEVILLE RI	D./ DIVISION ST.
	-	STATEVILLE EN	TRANCE TO IL-53
		PROPOSED TY	PICAL SECTION
		FOR RAISED	PROFILE FROM
	-	STA. 17+50	TO STA. 22+50
		SCALE: VERT. NONE	DRAWN BY
	ļ	DATE 4/07/2006	OHEORED DA

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TRANSPORTATION

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SECTION COUNTY 0291 2003-096RS WILL 30 9 STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT CONTRACT NO. 62672 STATEVILLE RD/ DIVISION ST. IMPROVEMENT END STA. 26+78 STATEVILLE RD/ DIVISION ST. ķ, 18' RT EL. 603.770 18' RT EL. 603.375 EL. 603.205 19' RT EL. 603.475 _ე.> 21' RT 19' RT EL. 603.160 EL. 603.850 +50 18' RT EL. 604.330 "BENCH MARKS" ① TBM "Z" "□" IN S.E. CORNER CONC. RIM ELECT. H.H. AT DIVISION & IL-53. EL. 608.30 ② X-CUT ON S.E. BOLT OF CONC., L.P. BASE AT ENTRANCE TO STATEVILLE PRISON ON WEST SIDE OF IL-53 (*1112B) TBM "Z3" EL. 606.570 625 625 620 620 615 615 - EXISTING C PROFILE STATEVILLE ROZDIVISION ST. PROPOSED & PROFILE STATEVILLE RO/DIVISION ST. FROM STA 17+50 TO STA 22+50 SEE TYPICAL CROSS SECTION ON SHEET 48 610 610 605 605 -0.60% 602,423± 600 600 PROP. R.C.C. 24" DIA. PIPE CULLVERT AT STA. 19+91 *FIX THE INVERT IN FIELD TO MATCH THE PROPOSED DITCH. 595 595 VPI STA. IILINOIS DEPT. OF TRANSPORTATION STATEVILLE RD./ DIVISION ST. 590 590 STATEVILLE RD./ DIVISION ST.

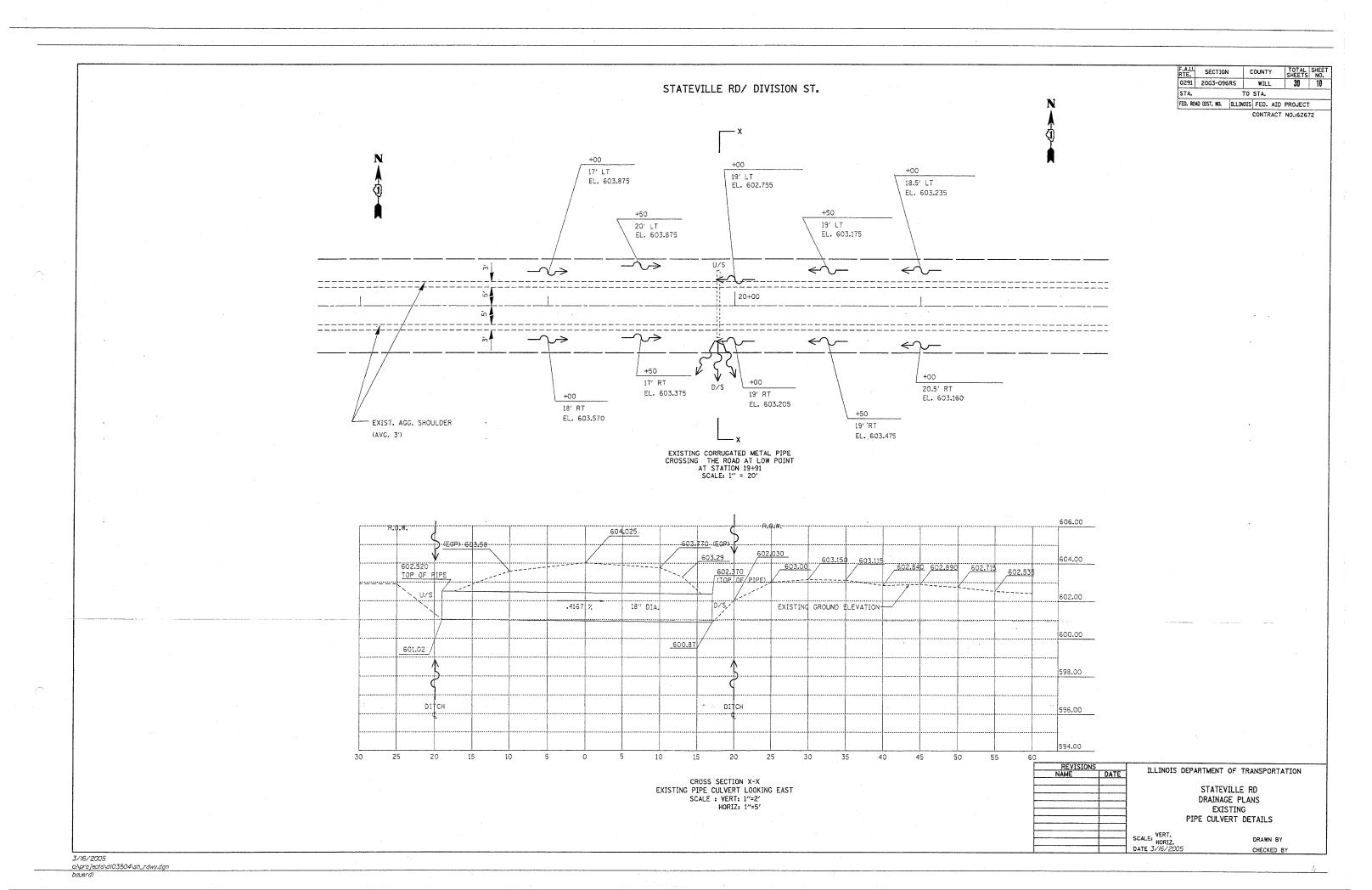
EXISTING & PROPOSED

DRAINAGE PLAN AND PROFILE

STA. 12+00 TO STA. 27+00

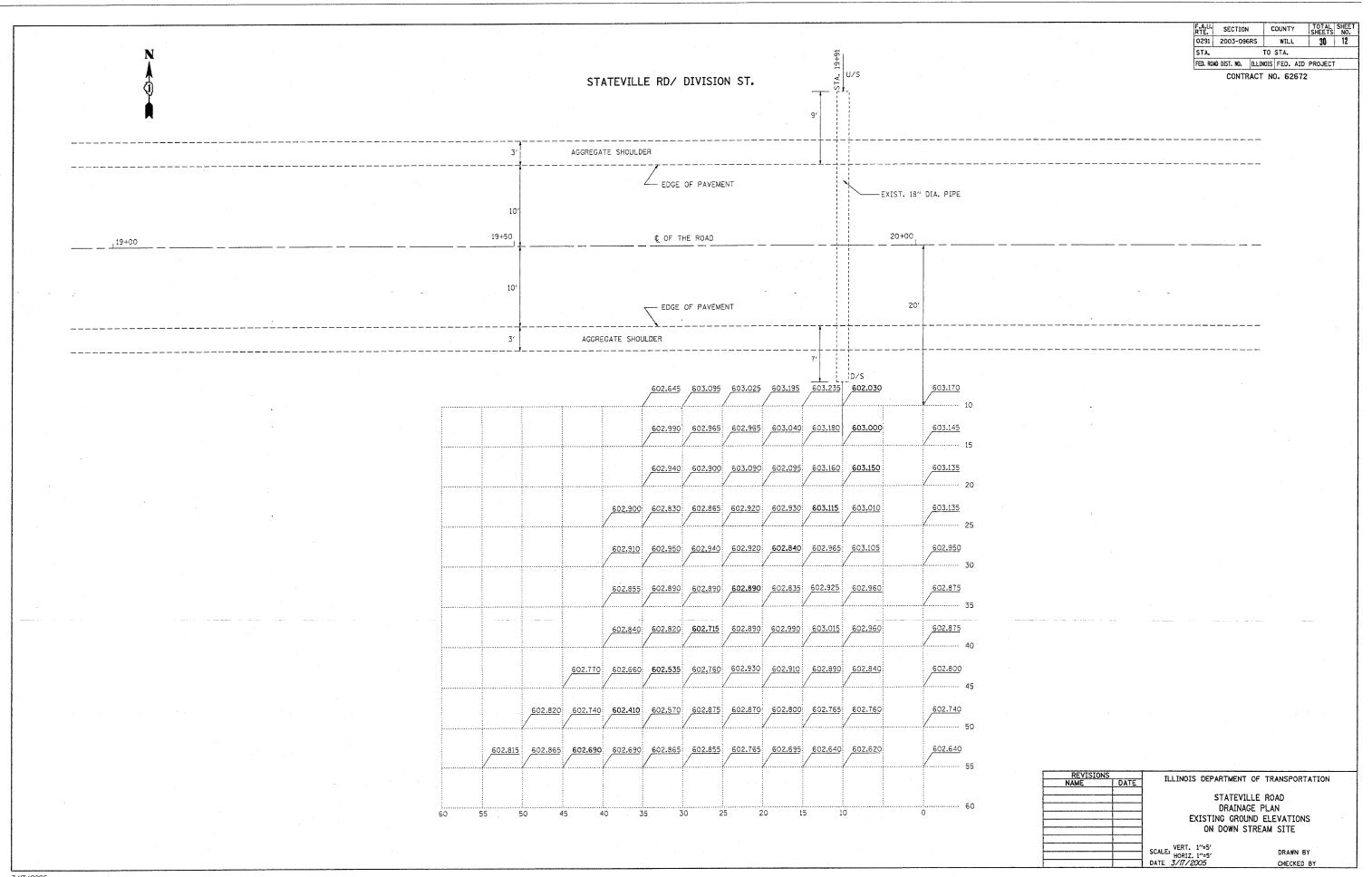
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HORIZ. 1"=50" DATE: 4/27/2005

585 585 605.06 604.99 603.94 605.31 605.05 605.24 604.40 603.96 604.19 604.71 19+00 13+00 13+50 12+00 12+50 4/27/2005 c:\oroJects\dl03504\sh_rdwy.dgn bauerdi



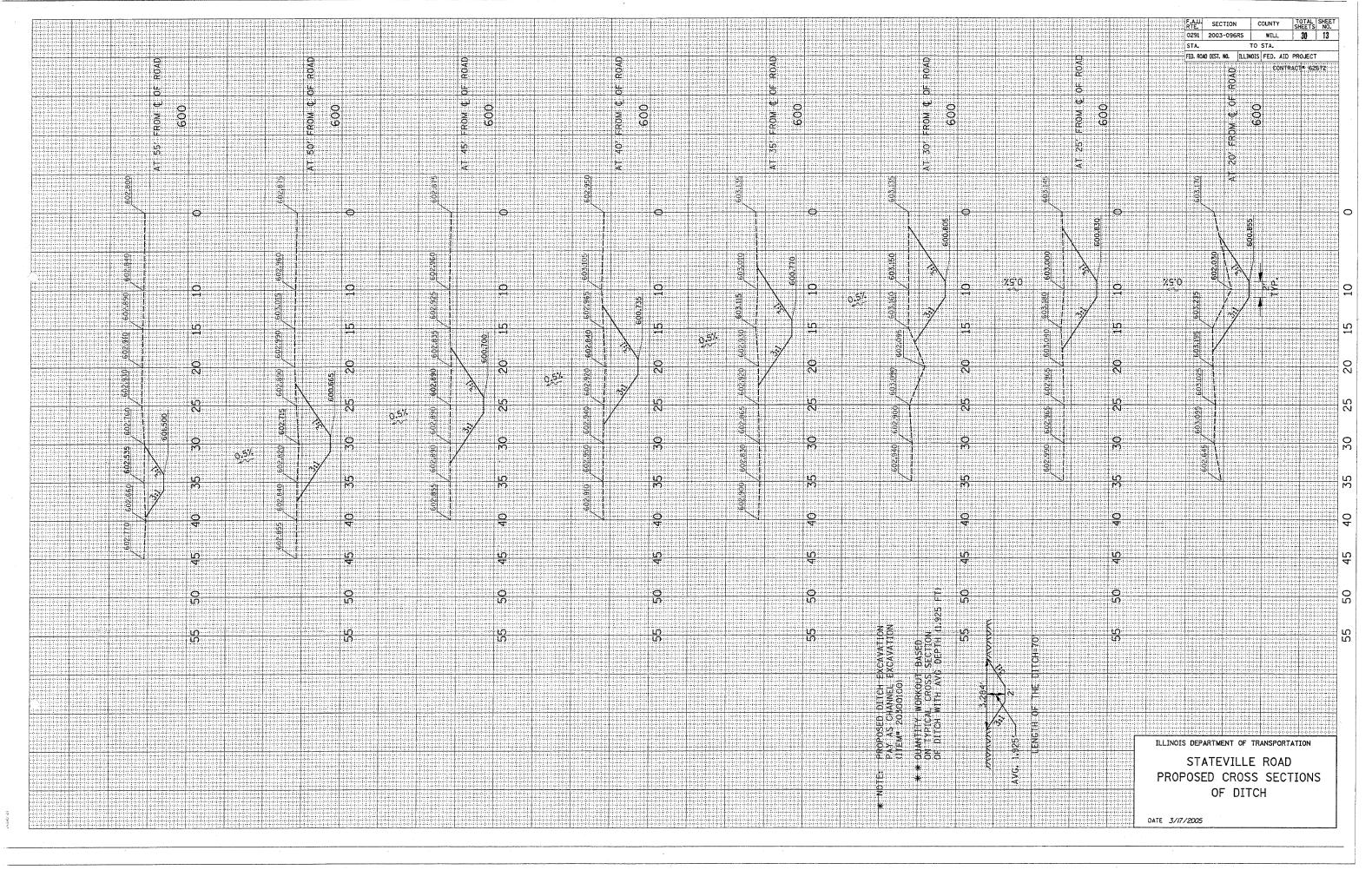
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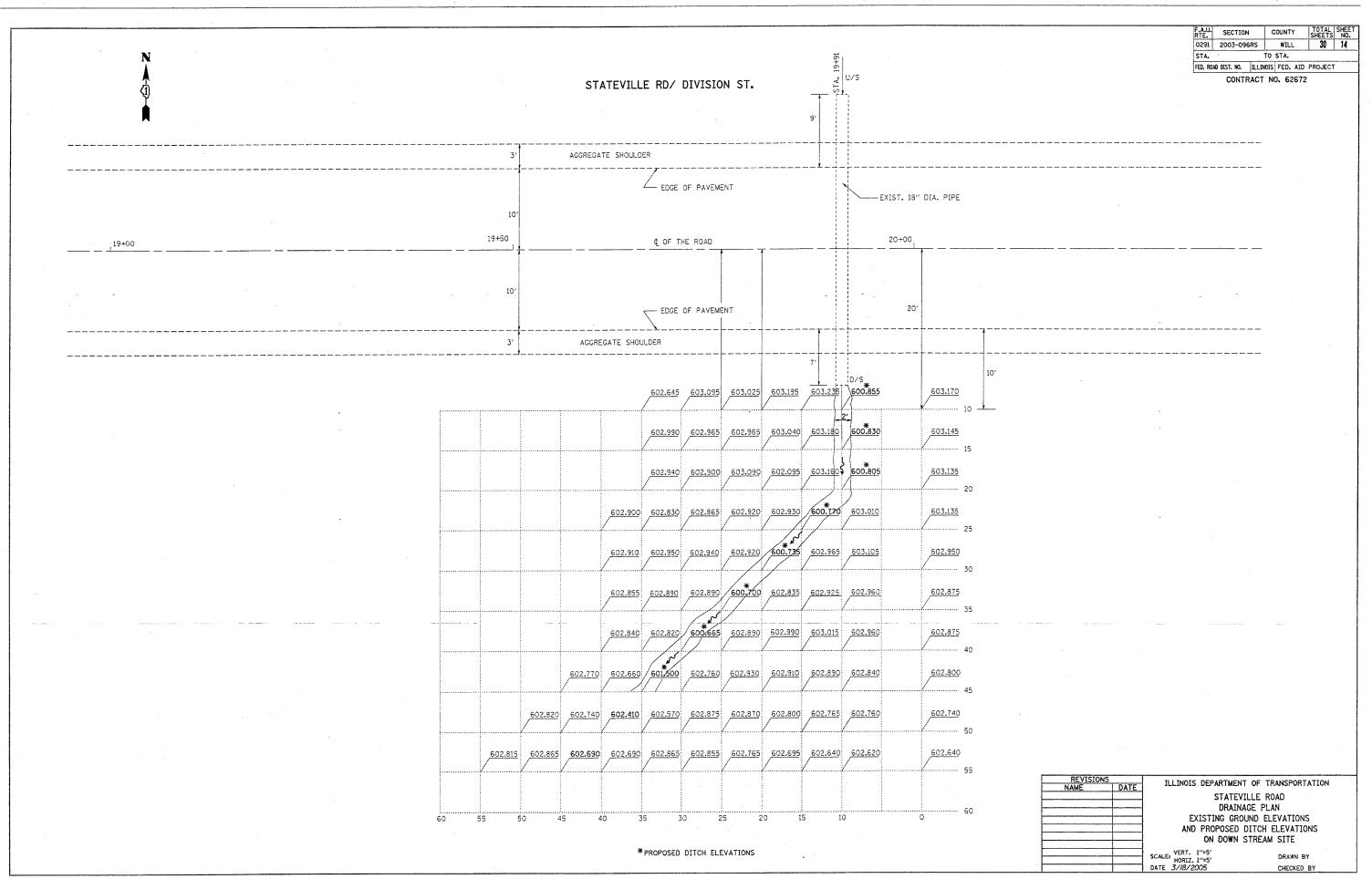
O291 2003-096RS WILL 30 11 STATEVILLE RD/ DIVISION ST. STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT +00 21' LT EL. 603.610 +00 17' LT 19' LT EL. 603.875 19' LT EL. 602.755 EL. 603.235 +50 +50 19' LT 19' LT EL. 603.175 18' LT EL. 604.155 20' LT EL. 603.615 EL. 603.875 -√> -~~→ U/S ~√ ~√— 20+00 **←**∕√-**←**∕∕-+50 +00 +50 17' RT 19' RT 21' RT D/S EL. 603.375 19' RT EL. 603.850 18' RT +00 EL. 603.160 EL. 603.205 EL. 603.770 18' RT +50 19' RT EL. 603.475 PROPOSED PIPE CULVERT
24" DIA. WITH REINFORCED CONCRETE END SECTIONS
WITH PARALLEL WING WALL (STD. 542001)
SCALE : VERT: 1"= 20" 606.00 604.44 604.00 602.00 * SEE EROSION CONTROL ..24". DIA 600.805 600.770 600,700 DETAILS SHEET .4167 % 600.855 600.830 601.500 D/S 0.5% 600,00 201:02 600.665 598.00 DITCH DITCH 596.00 594.00 15 20 25 30 35 45 50 55 30 25 20 REVISIONS NAME ILLINOIS DEPARTMENT OF TRANSPORTATION CROSS SECTION X-X
PROPOSED PIPE CULVERT
24" DIA. WITH REINFORCED CONCRETE END SECTIONS STATEVILLE RD DRAINAGE PLANS WITH PARALLEL WING WALL (STD. 542001) SCALE : VERT: 1"=2" PROPOSED HORIZ: 1"=5" PIPE CULVERT DETAILS SCALE: VERT. HORIZ. DATE 3/24/2005 DRAWN BY 3/24/2005 c:\pro fects\dl03504\sh_rdwy.dgn bauerdl



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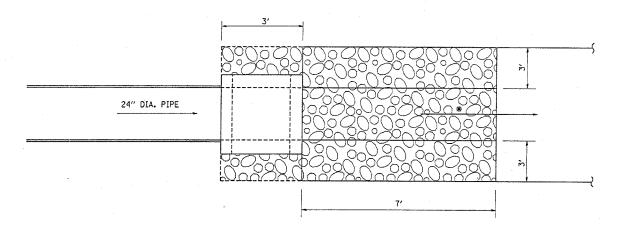




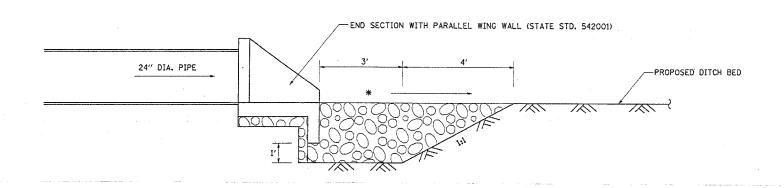
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F.A.U. RTE.	SECTION	4	COUNT	Y	TOTAL	SHEET NO.
0291	2003-090	SRS	WILL		30	15
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FED. ROA	D DIST. NO.	ILLINOIS	FED.	AID	PROJECT	



<u>PLAN</u>



LONGITUDINAL SECTION

* EROSION CONTROL PROTECTION AT U/S & D/S (NOT TO SCALE)

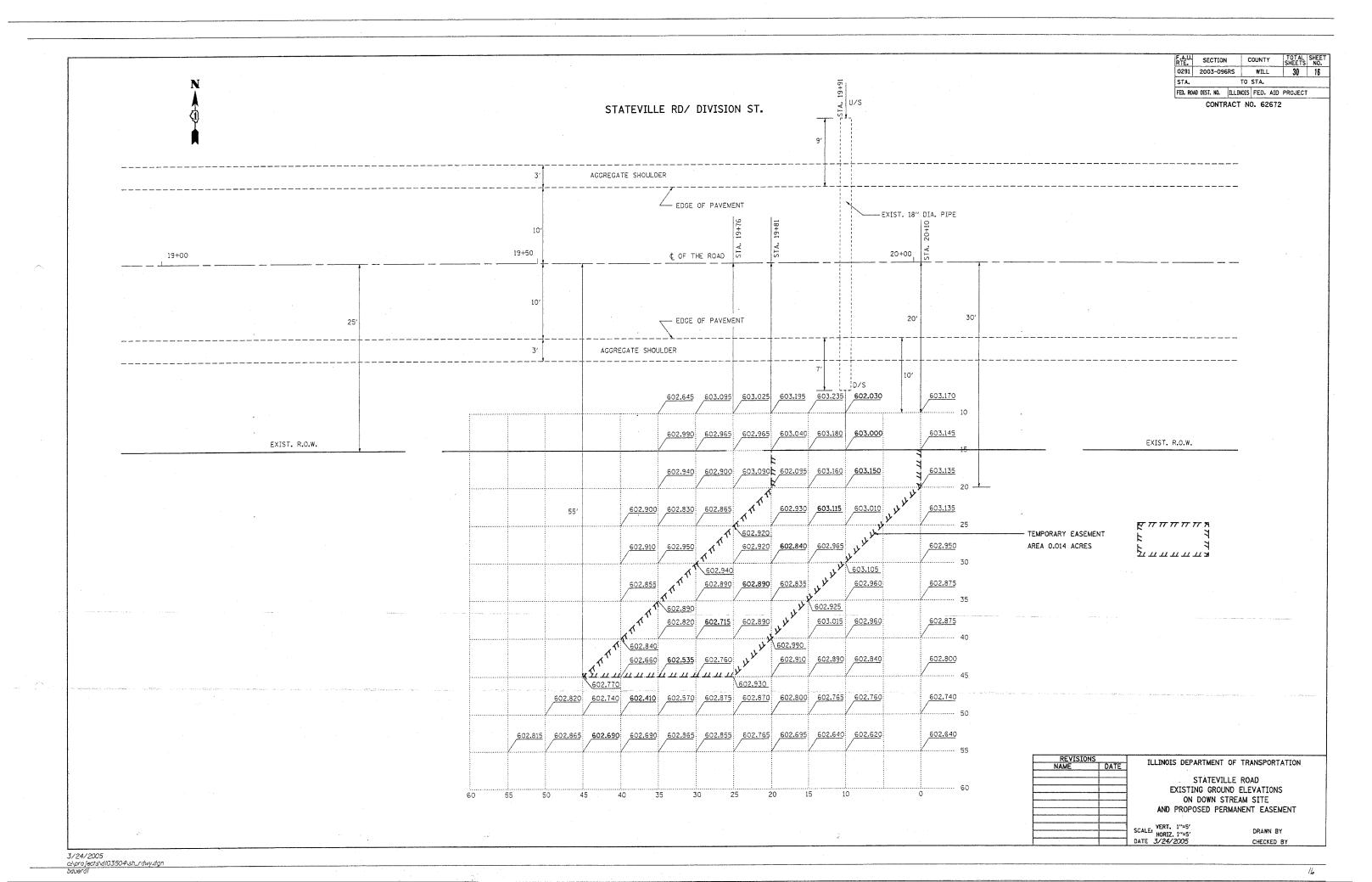


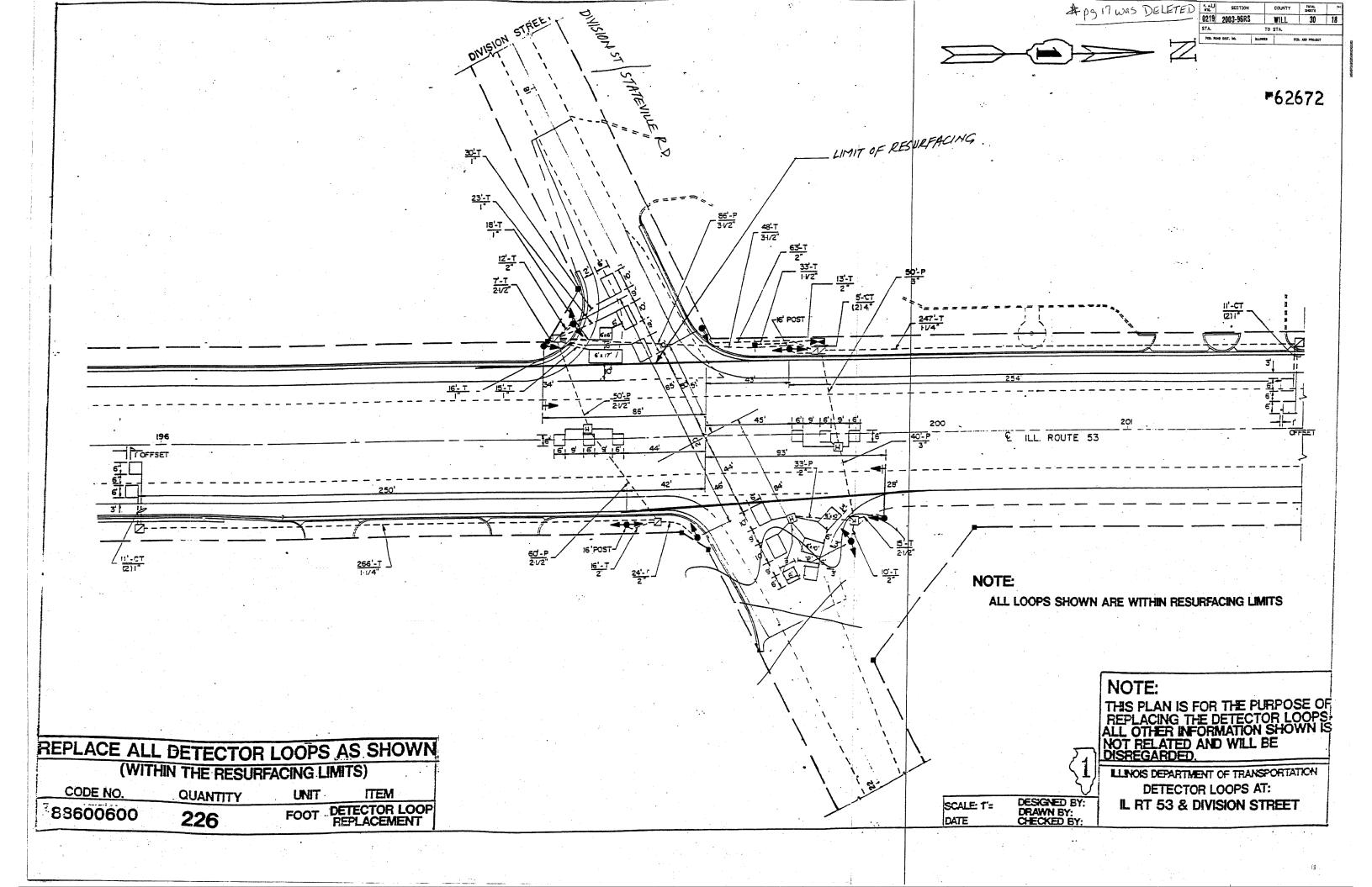
AGGREGATE (EROSION CONTROL)

"EROSION CONTROL & PROTECTION SCHEDULE"

STATION	LOCATION	UNIT	QUANTITY	REMARKS
	1. TEM	PORARY DITO	CH CHECK	
17+50 TO 22+50	NORTH	EACH	10	FOR 500' LENGTH @ 50' INTERVAL
22+50 TO 20+00	SOUTH	EACH	5	FOR 250' LENGTH @ 50' INTERVAL
	2. TEM	PORARY EROS	SION CONTROL SE	EDING
17+50 TO 22+50 22+50 TO 20+00	NORTH SOUTH	POUND		(1) FOR GRADING & SHAPING THE DITCHES ROADSIDE AREA AS PER CALCS 0.203 ACRES (2) FOR CHANNEL EXCAVATION (DITCH AS D/S) AREA 0.010 ACRES (2) 0.203+0.010=0.213 ACRES (2) 100 LBS/AC=22 POUNDS
	3. INLE	T & PIPE P	ROTECTION	
19+91	NORTH & SOUTH ENDS OF CULVERT	EACH	2	AT INLET & OUTLET OF CULVERT END SECTION
	4. AGG	REGATE (ERO	SION CONTROL)	
19+91	NORTH & SOUTH ENDS OF CULVERT	TON	26	FOR PERMANENT EROSION CONTROL AT INLET & OUTLET OF CULVERT

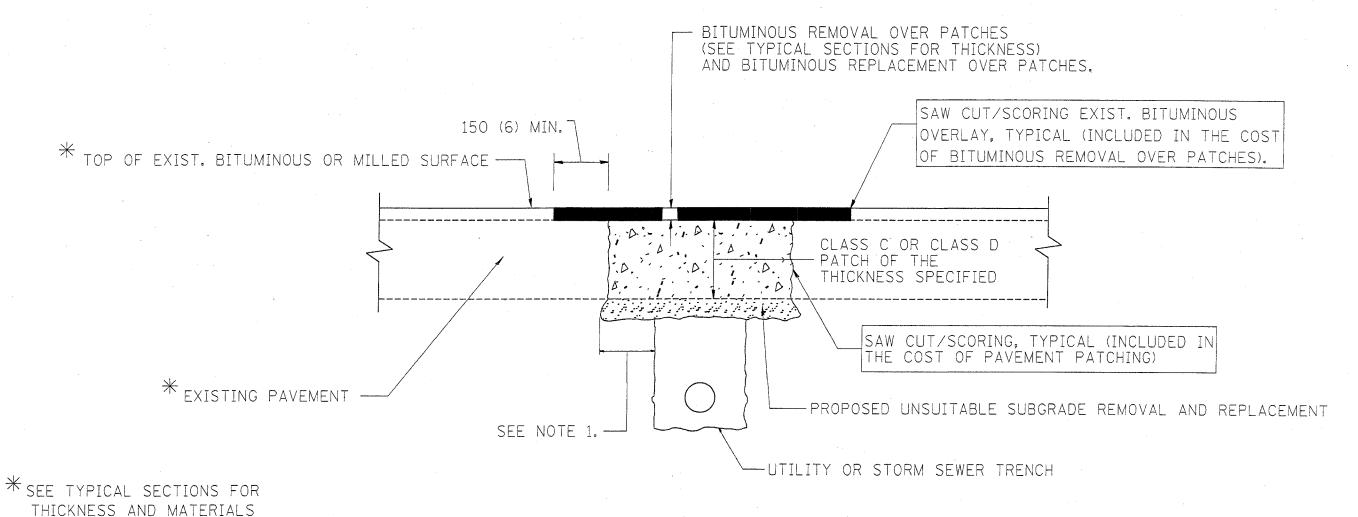
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NAME	DATE	ILLINOIS DEPARTMEN	I OF TRANSPORTATION
			VILLE ROAD NAGE PLAN
		EROSION CONTROL DETAILS AND SCHEDULE	
		VERT	
		SCALE: VERT. NONE	DRAWN BY
		DATE 3/17/2005	CHECKED DA





F.A.U. RTE.	SECTION	۷ (OUNTY	TOTAL	SHEET
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FED. ROA	D DIST. NO.	ILLINOIS	FED. A	D PROJECT	•

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NOTES:

- 1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 300 (12) WIDER ON EACH SIDE OF THE TRENCH.
- 2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE SPECIAL PROVISION "PATCHING WITH BITUMINOUS OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION

- 1. REMOVE THE EXISTING BITUMINOUS MATERIAL OVER THE AREA TO BE PATCHED.
- 2. REMOVE AND REPLACE FULL DEPTH PATCHES
- 3. REPLACE BITUMINOUS MATERIAL OVER THE AREA TO BE PATCHED.

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.

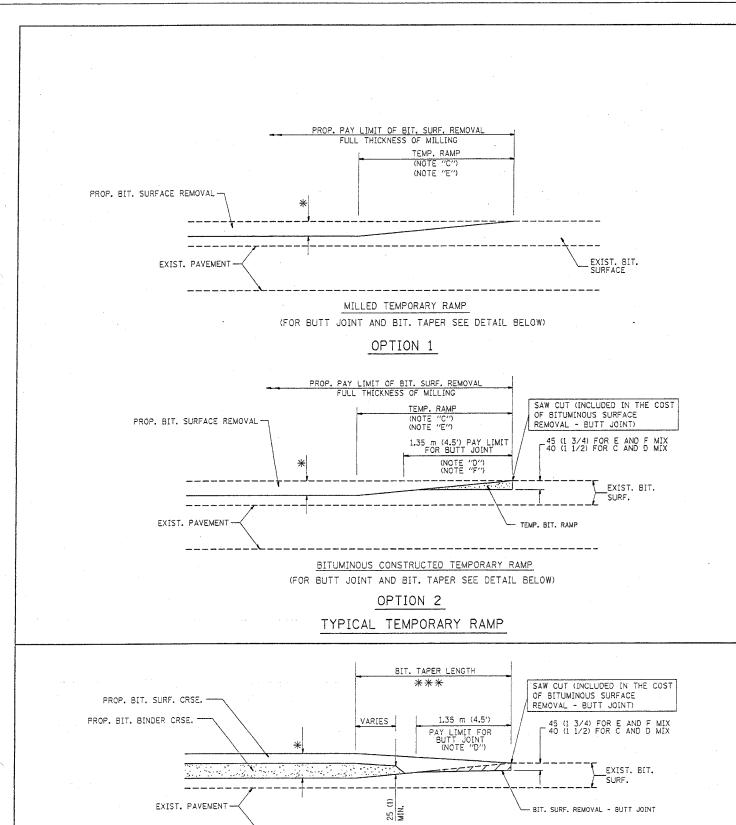
DATE
10/25/94
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04/24/95
03/15/98
03/21/97
01/20/98
04/27/98

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT PATCHING FOR BITUMINOUS SURFACED **PAVEMENT**

CHECKED BY BD400-04 (BD-22)

REVISION DATE: 04/27/9



BUTT JOINT AND

BITUMINOUS TAPER

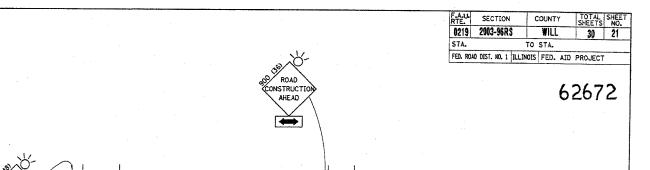
TYPICAL BUTT JOINT AND BITUMINOUS TAPER FOR MILLING AND RESURFACING

SECTION COUNTY TOTAL SHEET NO 0219 2003-96RS WILL 30 20 62672 PROP. BIT. OR P.C.C.
SURFACE REMOVAL - BUTT JOINT
9.0 m (30ft.) (NOTE "A") SAW CUT (INCLUDED IN THE COST EXIST. BIT. OR OF BITUMINOUS SURFACE CONC. SURFACE 4.5 m (15ft.) (NOTE "B") REMOVAL - BUTT JOINT) (NOTE "D") _45 (1 3/4) FOR E AND F MIX 40 (1 1/2) FOR C AND D MIX * * EXIST. PAVEMENT BUTT JOINT DETAIL TAPER LENGTH * * VARIES PROP. BIT. SURF. CRSE. -PROP. BIT. BINDER CRSE. 45 (1 3/4) FOR E AND F MIX [40 (1 1/2) FOR C AND D MIX * * EXIST. PAVEMENT BITUMINOUS TAPER DETAIL TYPICAL BUTT JOINT AND BITUMINOUS TAPER FOR RESURFACING ONLY * * PC CONCRETE, BITUMINOUS OR BITUMINOUS RESURFACED PAVEMENT. NOTES A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS. C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING BITUMINOUS SURFACE. D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED BITUMINOUS COURSES. E: TAPER THE TEMP, RAMP AT A RATE OF 900 (3 ft.) PER INCH OF MILLING THICKNESS. F: INSTALLATION AND REMOVAL OF THE 1.35 m (4.5') TEMP. 8IT. RAMP WILL 8E PAID AS "BITUMINOUS SURFACE REMOVAL - BUTT JOINT". G: SEE ARTICLE 406.18 AND 406.24 OF THE STANDARD SPECIFICATIONS FOR "BITUMINOUS AND PCC SURFACE REMOVAL, BUTT JOINT". * SEE TYPICAL SECTIONS FOR MILLING THICKNESS. * * * * 6.1 m (20') PER 25 (1) RESURFACING (NOTE "A") ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS 3.0 m (10') PER 25 (1) RESURFACING (NOTE "B") OTHERWISE SHOWN. ILLINOIS DEPARTMENT OF TRANSPORTATION BASIS OF PAYMENT: BUTT JOINT AND THE BUTT JOINT WILL BE PAID FOR PER SQUARE METER (SQUARE YARD.) AS "BITUMINOUS SURFACE REMOVAL - BUTT JOINT" OR AS "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT". BITUMINOUS TAPER DETAILS SCALE: NONE DRAWN BY

CHECKED BY BD400-05 (VI=8D32)

REVISION DATE: 04/06/01

04/12/2004 w:\diststd\bd32.dgn VI=BD32 BAUERDL



LOCAL

TYPE I OR TYPE II BARRICADES WITH ONE FLASHING AMBER LIGHT ON EACH, OR TYPE III BARRICADES WITH TWO FLASHING AMBER LIGHTS ON EACH.

W20-1(0)

M6-4(0)-2115

M6-1(0)-2115

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

TYPE III BARRICADES WITH TWO FLASHING AMBER LIGHTS ON EACH.

60 m± (200'±)-

DRIVEWAY

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

ROAD CONSTRUCTION

AHEAD

- 1. SIDE ROAD WITH A SPEED LIMIT OF 60 km/h (40 MPH) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- d) ONE ROAD CONSTRUCTION AHEAD SIGN 900×900 (36x36) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 60 m (2007) IN ADVANCE OF THE MAIN ROUTE,

MPH

(40

COLLECTOR LIMIT>60 km/h

- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 60 km/h (40 MPH) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- c) ONE ROAD CONSTRUCTION AHEAD SIGN 1.2 m \times 1.2 m (48 \times 48) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 150 m (500°) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (MG-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (MG-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

ROAD

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED,
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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	T. RAMMACHER	09/08/94	,
	J. OBERLE	10/18/95	
- 3	A. HOUSEH	03/06/96	
-	A. HOUSEH	10/15/96	
	T. RAMMACHER	01/06/00	
			er

ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC CONTROL AND PROTECTION
FOR

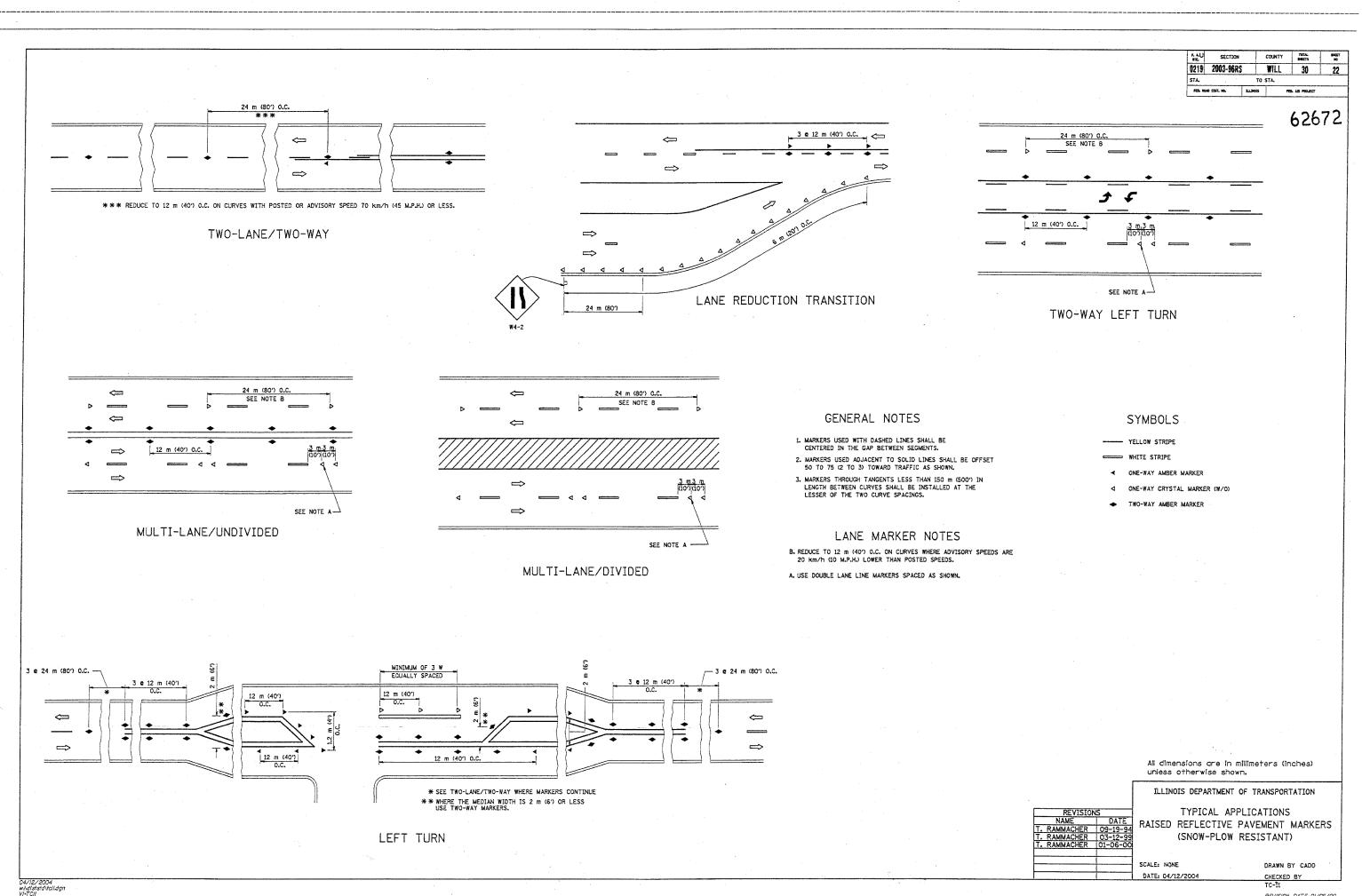
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

SCALE: VERT.
HORIZ.
DATE 04/12/2004

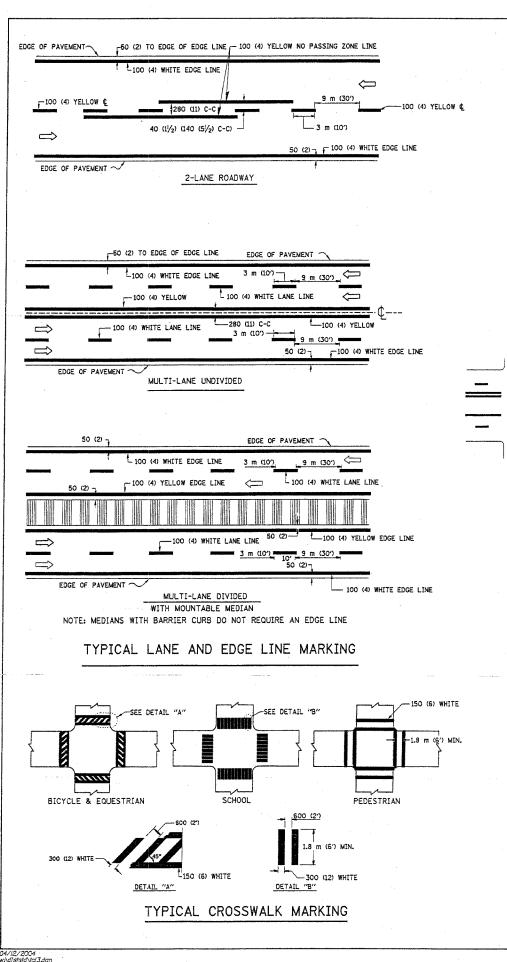
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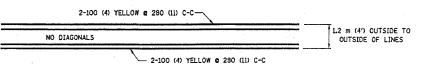
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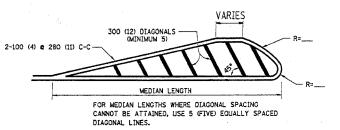


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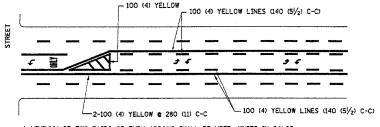


1.2 m (4') WIDE MEDIANS ONLY

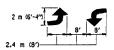


DIAGONAL LINE SPACING: 15 m (50°) C-C (LESS THAN 50 km/h (30 MPH)) 25 m (75°) C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH)) 45 m (150') C-C (MORE THAN 70 km/h (45 MPH))

MEDIANS OVER 1.2 m (4') WIDE

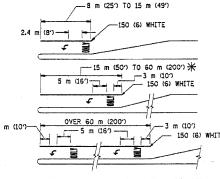


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED. WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 60 m (200') TO 90 m (300') INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

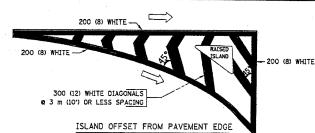


FULL SIZE LETTERS 2.4 m (8') AND ARROWS SHALL BE USED. \P AREA = 1.5 m² (15.6 SQ. FT.) (III) AREA = 1.9 m² (20.8 SQ. FT.)

* TURN LANES IN EXCESS OF 120 m (400') IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

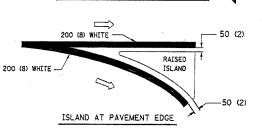
TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



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TYPICAL ISLAND MARKING

				·
TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	100 (4)	SKIP-DASH	YELLOW	3 m (10') LINE WITH 9 m (30') SPACE
CENTERLINE ON MULTI-LANE UNDIVEDED PAVEMENT	2 2 100 (4)	SOLID	YELLOW	280 (11) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	100 (4) 2 e 100 (4)	SOLID SOLID	YELLOW YELLOW	140 (5½) C-C FROM SKIP-DASH CENTERLINE 280 (11) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	100 (4) 125 (5) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	3 m (10") LINE WITH 9 m (30") SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	600 (2') LINE WITH 1.8 m (6') SPACE
EDGE LINES	100 (4)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW: EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	150 (6) LINE; FULL SIZE LETTERS & SYMBOLS (2.4 m (8'))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 0 100 (4) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	3 m (10") LINE WITH 9 m (30") SPACE FOR SKIP-DASH; 140 (51/2) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	2.4 m (8') LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 2 150 (6) 300 (12) 2 45° 300 (12) 2 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 1.8 m (6') APART 600 (2') APART 600 (2') APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	600 (24)	SOLID	WHITE	PLACE 1.2 m (47) DN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 8 100 (4) WITH 300 (12) DIAGONALS	SOLID	YELLOW: TWO WAY TRAFFIC	280 (11) C-C FOR THE DOUBLE LINE
- Maria di Maria Maria Maria di America di A	NO DIAGONALS USED FOR 1.2 m (4') WIDE MEDIANS		WHITE: ONE WAY TRAFFIC	SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	200 (8) WITH 300 (12) DIAGONALS & 45°	SOLID	WHITE	DIAGONALS: 4.5 m (15) C-C (LESS THAN 50 km/h (30 MPH)) 6 m (20) C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH) 9 m (30) C-C (0VER 70 km/h (45 MPH))
RAILROAD CROSSING	600 (24) TRANSVERSE LINES; "RR" IS 1.8 m (6') LETTERS; 400 (16) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA 0F: "R"=0.33m ² (3.5 SQ. FT.) EACH "X"=5.0 m ² (54.0 SQ. FT.)
SHOULDER DIAGONALS	300 (12) e 45°	SOLID		15 m (50') C-C (LESS THAN 50 km/h (30 MPH)) 25 m (75') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH) 45 m (150') C-C (OVER 70 km/h (45 MPH))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in millimeters (inches) unless otherwise shown.

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE TYPICAL PAVEMENT **MARKINGS**

SCALE: NONE

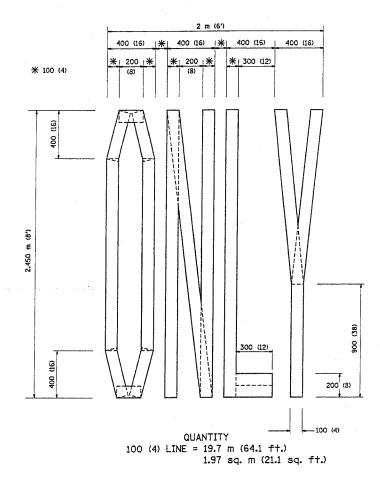
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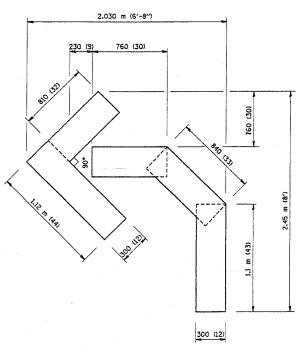
TC-13

REVISION DATE:01/06/00

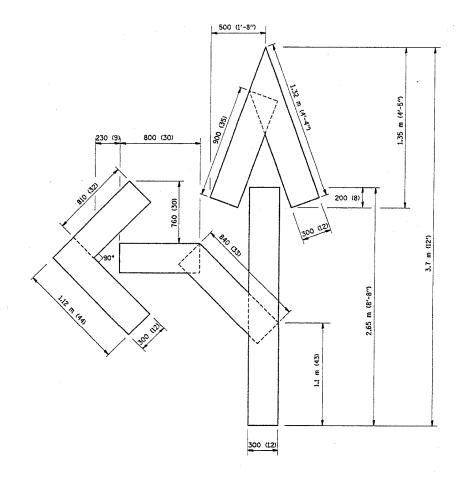
F. A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
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QUANTITY 100 (4) LINE = 13.9 m (45.5 ft.) 1.39 sq. m (15.2 sq. ft.)



QUANTITY 100 (4) LINE = 25.3 m (82.5 ft.) 2.53 sq. m (27.5 sq. ft.)

All dimensions are in millimeters (inches) unless otherwise shown.

ILLINOIS DEPARTMENT OF TRANSPORTATION

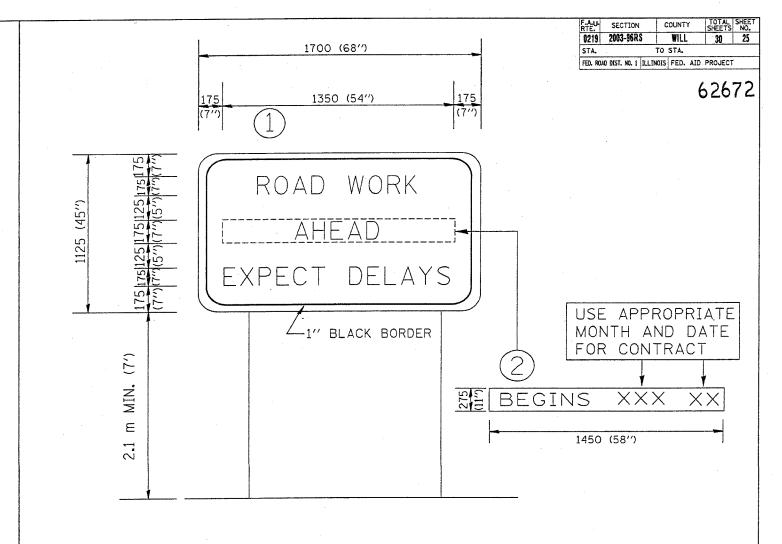
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TC-16 REVISION DATE:08/28/00

VI-TCI6 BAUERDL

REVISION DATE:08/28/00



NOTES:

- 1. USE BLACK LETTERING ON ORANGE BACKGROUND.
- 2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- 3. ERECT SIGN (1) WITH INSTALLED PANEL (2) ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
- 4. REMOVE PANEL (2) SOON AFTER THE START OF CONSTRUCTION.
- 5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
- 6. ONE SIGN ASSEMBLY EQUALS 2.3 SQ. M. (25.70 SQ. FT.)

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES)

UNLESS OTHERWISE SHOWN.

REVISIONS
NAME DATE
R. MIRS 19-15-97
R. MIRS 12-11-91
T. RAMMACHER 2-2-99

SCALE: DRAWN BY: BUR. OF DESIGN
DATE 04/12/2004 CHECKED BY

TC22

REVISION DATE: 02/02/99

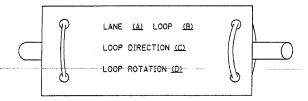
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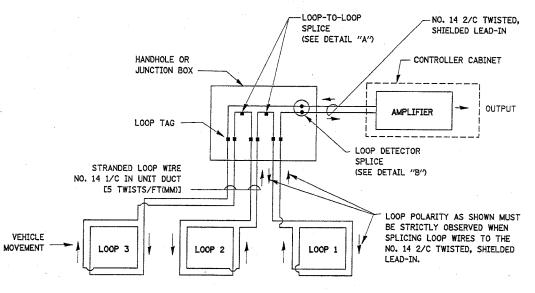
LOOP DETECTOR NOTES

- 1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE UNIT DUCT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). UNIT DUCT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- 2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
- 3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
- 4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- 5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
- 6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
- 7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG



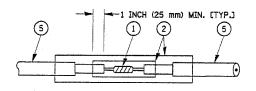
- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP *1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

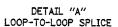


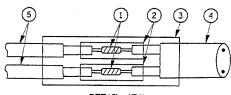
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DETECTOR LOOP WIRING SCHEMATIC

- * LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE,
 THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.







DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

- (1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- 2 WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- 3 WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.
- (4) NO. 14 2/C TWISTED, SHIELDED CABLE.
- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

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11/12/01
1-01-02

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE

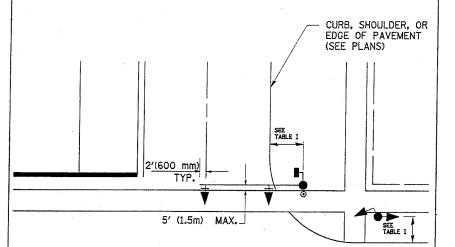
STANDARD TRAFFIC SIGNAL

DESIGN DETAILS

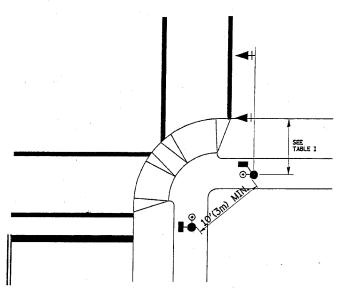
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TRAFFIC SIGNAL MAST ARM AND POST

MAST ARM MOUNTED SIGNAL IN PROPOSED & FUTURE SIDEWALK AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNAL AND PUSHBUTTON DETECTOR



PEDESTRIAN SIGNAL PUSHBUTTON



RECOMMENDED PUSHBUTTON LOCATIONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHALL BE IN ACCORDANCE WITH THE CURRENT MUTCO (SEE NOTE 1). TO MEET MUTCO REQUIREMENTS, PEDESTRIAN SIGNAL PUSHBUTTONS MAY HAVE TO BE MOUNTED ON A SEPARATE POST.

NOTES:

RTE. SECTION COUNTY
0219 2003-96RS WILL 30 27 TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

1. AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS WITH PEDESTRIAN ACTUATION. EACH PUSHBUTTON SHALL ACTIVATE BOTH THE WALK INTERVAL AND THE ACCESSIBLE PEDESTRIAN SIGNALS.

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TOTAL SHEE SHEETS NO.

COUNTY

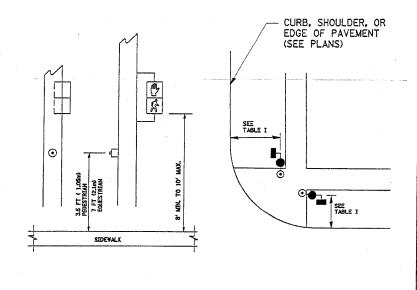
AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS, PUSHBUTTONS SHOULD CLEARLY INDICATE WHICH CROSSWALK SIGNAL IS ACTUATED BY EACH PUSHBUTTON, PUSHBUTTONS AND TACTILE ARROWS SHOULD HAVE HIGH VISUAL CONTRAST (SEE THE DEPARTMENT OF JUSTICE'S AMERICANS WITH DISABILITIES ACT STANDARDS FOR ACCESSIBLE DESIGN, 1991). TACTILE ARROWS SHOULD POINT IN THE SAME DIRECTION AS THE ASSOCIATED CROSSWALK. AT CORNERS OF SIGNALIZED LOCATIONS WITH ACCESSIBLE PEDESTRIAN SIGNALS WHERE PEDESTRIAN PUSHBUTTONS ARE PROVIDED, THE PUSHBUTTONS SHOULD BE SEPARATED BY THE DISTANCE OF AT LEAST 10 FT (3m). THIS ENABLES PEDESTRIANS WHO HAVE VISUAL DISABILITIES TO DISTINGUISH AND LOCATE THE APPROPRIATE PUSHBUTTON.

PUSHBUTTONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHOULD BE LOCATED AS FOLLOWS:

- A: ADJACENT TO A LEVEL ALL-WEATHER SURFACE TO PROVIDE ACCESS FROM A WHEELCHAIR, AND WHERE THERE IS AN ALL WEATHER SURFACE, WHEELCHAIR ACCESSIBLE ROUTE TO THE RAMP.
- B: WITHIN 5 FT (1.5m) OF THE CROSSWALK EXTENDED.
- C: WITHIN 10 FT (3m) OF THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- D: PARALLEL TO THE CROSSWALK TO BE USED (SEE MUTCD FIGURE 4E-2).
- E: NORMAL PEDESTRIAN PUSHBUTTON MOUNTING HEIGHT SHOULD BE 3.5 FT (1.05m) ABOVE ADJACENT SIDEWALK
- 2. PEDESTRIAN SIGNAL FACES SHALL BE MOUNTED WITH THE BOTTOM OF THE HOUSING NOT LESS THAN 8 FT (2.4m) NOR MORE THAN 10 FT (3.0m) ABOVE THE SIDEWALK LEVEL AND SO THERE IS A PEDESTRIAN INDICATION IN THE LINE OF PEDESTRIANS' VISION WHICH PERTAINS TO THE CROSSWALK
- 3. THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, NOT MOUNTED OVER A ROADWAY, SHALL BE AT LEAST 10 FT (3.0m) BUT NOT MORE THAN 15 FT (4.5m) ABOVE THE SIDEWALK OR, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE HIGHWAY IF NO SIDEWALKS EXIST.
- 4. THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, MOUNTED OVER A ROADWAY, SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001 AND 877006. (16 FT (5m) MIN., 18 FT (5.5m) MAX., FROM HIGHEST POINT OF PAVEMENT)

PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSHBUTTON DETECTOR LOCATION

PEDESTRIAN SIGNAL POST



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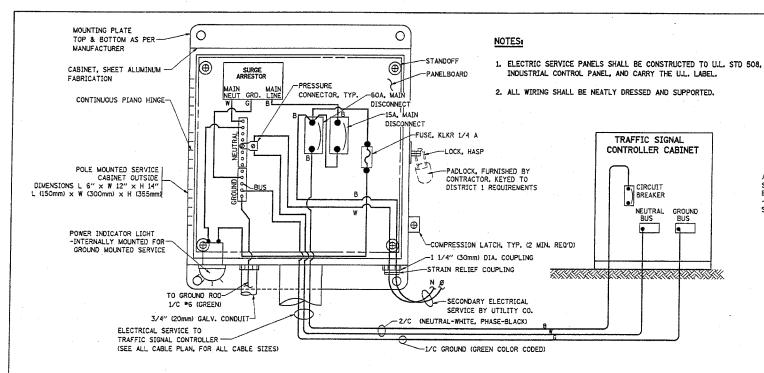
TABLE I

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MIN. DIST. FROM BACK OF CURB)	SHOULDER/NON-CURBED AREA (MIN. DIST. FROM EDGE OF PAVEMENT)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN PUSHBUTTON	SEE NOTE 1	SEE NOTE 1

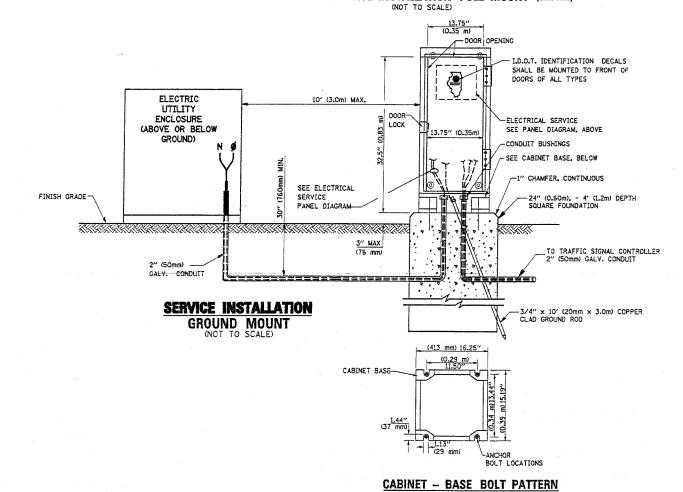
REVISIONS NAME ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS

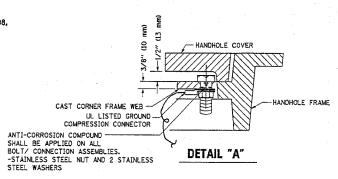
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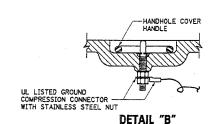
REVISION DATE: 01/01/02

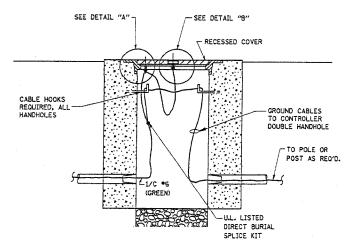


ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE) SERVICE INSTALLATION POLE MOUNT (SHOWN)



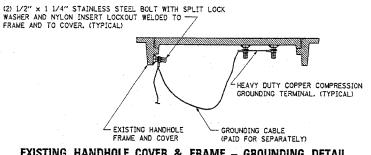






HANDHOLE COVER & FRAME - GROUNDING DETAIL

(NOT TO SCALE)



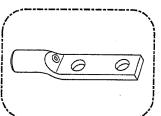
EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL

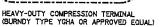
(NOT TO SCALE)

NOTES:

GROUNDING SYSTEM

- RTE. SECTION COUNTY 0219 2003-96RS STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT 62672
- 1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC,). GROUND ROD SHALL BE 3/4" DIA. \times 10'-0" (20mm \times 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS. CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
- 2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
- 3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
- 4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.

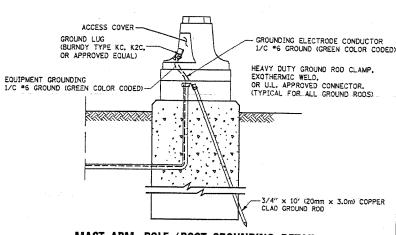






3/4" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EUAL)

· ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED. · GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.

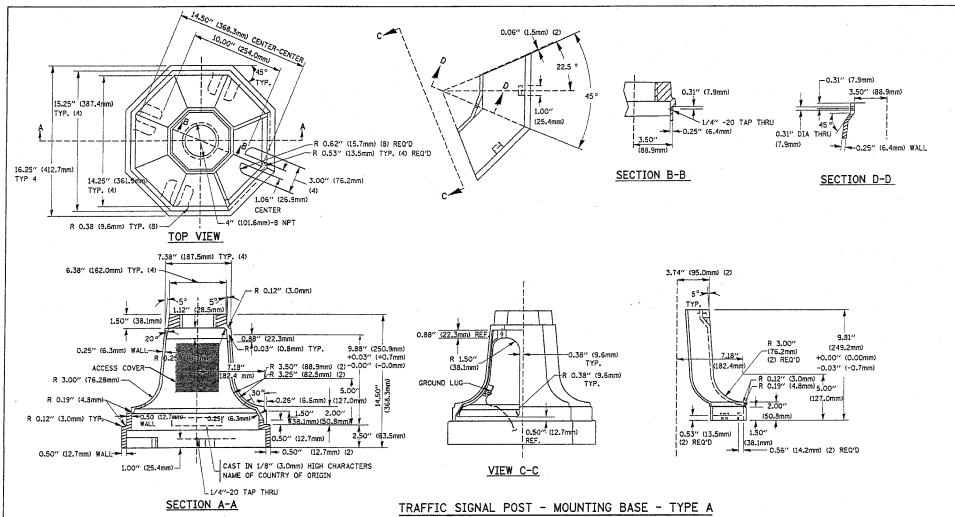


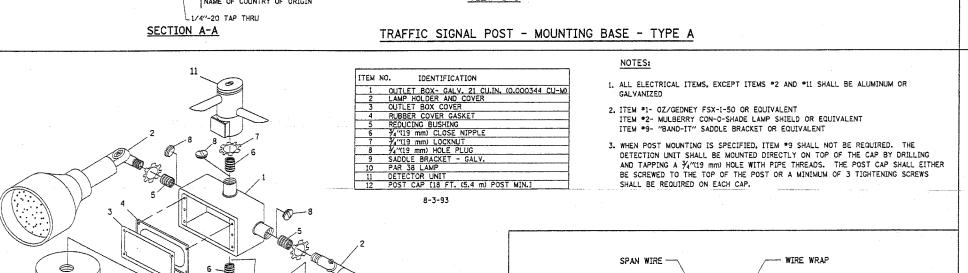
MAST ARM POLE / POST-GROUNDING DETAIL (NOT TO SCALE) ILLINOIS DEPARTMENT OF TRANSPORTATION

14WMC	LUAIC		
CADD	5/30/00		
CADD	3/15/01	DISTRI	ICT 1
BUREAU OF TRAFFIC	1/01/02	01211/1	CII
		STANDARD TRA	VEETO STONAL
		DESIGN [DETAILS
		SCALE, VERT. NOVE	DRAWN BY: RWP
		SCALE: VERT. NONE	DESIGNED BY: DAD CHECKED BY: DAZ
		DATE 04/12/2004	SHEET 3 OF 4

SHEET 3 OF 4

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LIGHT DETECTOR AND CONFIRMATION BEACON ATTACHED TO TUBING

TETHER CABLE

GALVANIZED TUBING

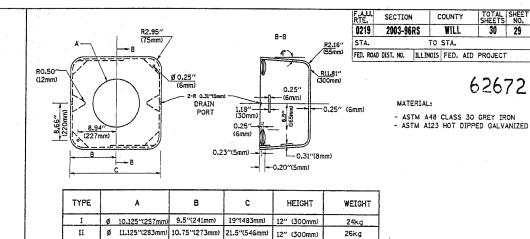
LIGHT DETECTOR AND

CONFIRMATION BEACON MOUNTING FOR TEMPORARY TRAFFIC SIGNALS

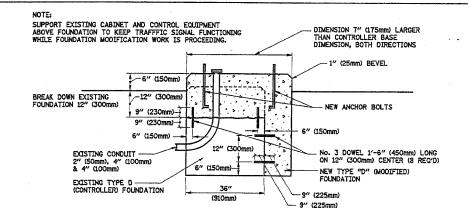
(NOT TO SCALE)

MAST ARM MOUNT

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

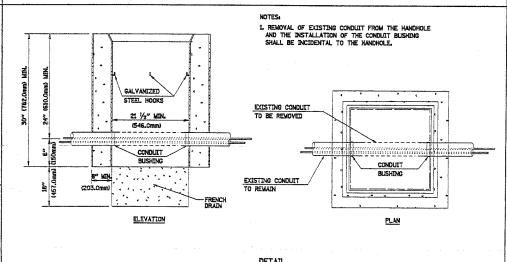


SHROUD DETAIL



MODIFY EXISTING TYPE "D" FOUNDATION

(NOT TO SCALE)



DETAIL HANDHOLE TO INTERCEPT EXISTING CONDUIT N.T.S.

KEATOTOL	VS.
NAME	DATE
BUREAU OF TRAFFIC	5/30/00
BUREAU OF TRAFFIC	3/15/01
BUREAU OF TRAFFIC	11/12/01
BUREAU OF TRAFFIC	1-01-02

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT 1
STANDARD TRAFFIC SIGNAL
DESIGN DETAILS

SCALE: VERT. NONE HORIZ. DATE 04/12/2004

DESIGNED BY: DAD CHECKED BY: DAZ SHEET 4 OF 4

04/12/2004 w:\diststd\ts05.dgn VI-T\$05 BAUEROL

POST CAP MOUNT

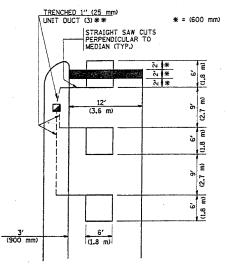
REVISION DATE: 01/01/02

PROVIDE A PAVEMENT REPLACEMENT MOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER. PAVED OR NON-PAVED SHOULDER PAVED OR NON-PAVED SHOULDER PAVED OR NON-PAVED SHOULDER # = (600 mm) * * * LINIT DUCT IS TO BE SHOWN ON PLAN SHEETS

LEFT TURN LANES WITH MEDIANS VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH

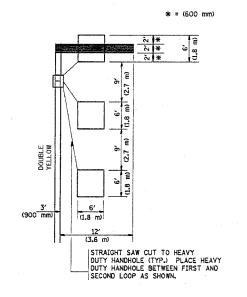
(PROTECTED / PERMITTED LEFT TURN PHASING)

HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 314001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.



** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS. NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH

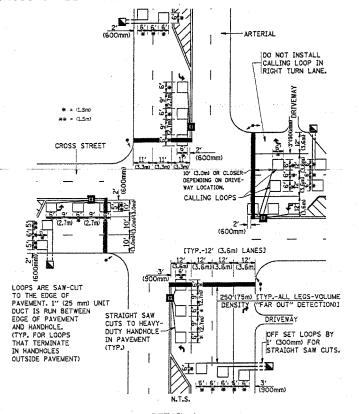
(PROTECTED / PERMITTED LEFT TURN PHASING)



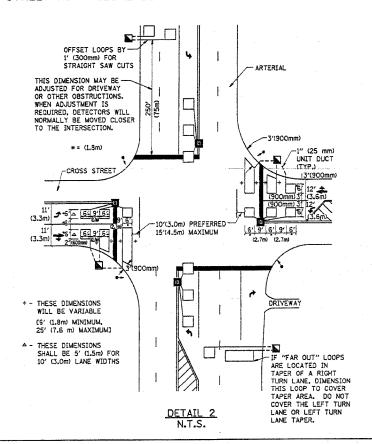
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-VOLUME DENSITY ("FAR OUT" DETECTION)

BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.



ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)



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NOTES:

VEHICLES LOOP DETECTORS

- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATLY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- * ONE DIMENSION OF <u>ALL</u> DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
- * EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- * WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (I.e. 1-1/2, 1-3/4, 2).
- * WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION THINING SHALL ALSO BE USED AS SYSTEM DETECTORS. <u>EACH</u> ONE OF THESE TYPE OF LOOPS REQUIRES A <u>SEPARATE</u> TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A <u>SEPARATE</u> INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

PLACEMENT OF DETECTORS

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DEMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON $\underline{\mathsf{ALL}}$ SIGNAL LAYOUT PLAN SHEETS.

"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAYEMENT EXTENDED.

NOTE:

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.



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REVISION DATE: