11-06-2015 LETTING ITEM 003

PROJECT LOCATED IN UNICORPORATED LAKE COUNTY

FOR INDEX OF SHEETS, SEE SHEET NO. 2

0

DESIGN DESIGNATION MINOR ARTERIAL (URBAN) ADT 21,200 (2013) POSTED SPEED LIMIT 50 MPH

ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: ROBERT BORO (847) 705-4237 PROJECT MANAGER: ISSAM RAYYAN (847)705-4178

END IMPROVEMENT STA 5+55.71

CONTRACT NO. 60Y01

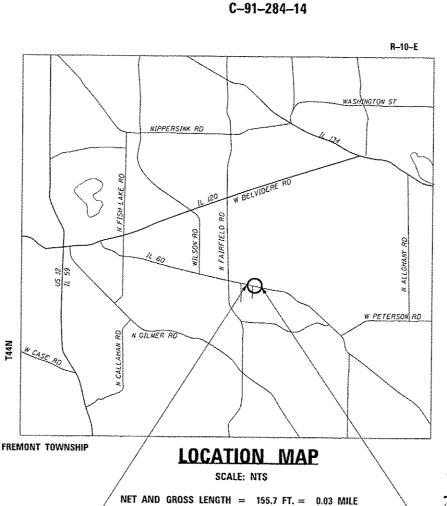
STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAP ROUTE 535: IL 60 OVER DITCH (1.6 MI. WEST OF PETERSON ROAD) SECTION 118T(14) "CULVERT REMOVAL" LAKE COUNTY



STRUCTURE NO. 049-0568 (EXISTING)

benesch



1187(14) CONTRACT NO. 60YOL

D-91-284-14



STATE OF ILLINOIS

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

STATE STANDARDS

SHEET NO.	<u>TITLE</u>	SHEET NO.	TITLE
1	TITLE SHEET	000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
2	INDEX OF SHEETS, STATE STANDARDS AND	280001-07	TEMPORARY EROSION CONTROL SYSTEMS
7 A	GENERAL NOTES	442201-03	CLASS C AND CLASS D PATCHES
3-4	SUMMARY OF QUANTITIES	630001-10	STEEL PLATE BEAM GUARDRAIL
5	TYPICAL SECTIONS	630101-09	GUARDRAIL MOUNTED ON EXISTING CULVERT
5	IL 60 PLAN AND PROFILE & PAVEMENT MARKING	701006-05	OFF-RD OPERATIONS, 2L. 2W, 15' (4.5 m) TO 24" (600 mm)FROM PAVEMENT EDGE
7	DITCH LINE PLAN AND PROFILE	701011-04	OFF-RD OPERATIONS, MULTILANE 15'(4.5 m) TO 24 " (600 mm) FROM PAVEMENT ED
8	DETOUR PLAN	701201-04	LANE CLOSURE. 2L, 2W. DAY ONLY. FOR SPEEDS > 45 MPH
9	EROSION CONTROL PLAN	701301-04	LANE CLOSURE, 2L. 2W SHORT TIME OPERATIONS
10-12	CROSS SECTIONS	701311-03	DAY ONLY MOVING OPERATIONSLANE CLOSURE 2L, 2W
13	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS. INTERSECTIONS, AND DRIVEWAYS (TC-10)	701901-04	TRAFFIC CONTROL DEVICES
14	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT	720001-01	SIGN PANEL MOUNTING DETAILS
	MARKERS (SNOW-PLOW RESISTANT) (TC-11)	720006-04	SIGN PANEL ERECTION DETAILS
15	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)	720011-01	METAL POSTS FOR SIGNS. MARKERS AND DELINEATORS
16	DETOUR SIGNING FOR CLOSING STATE HIGHWAYS (TC-21)	729001-01	APPLICATION OF TYPES A & B METAL POSTS (FOR SIGN & MARKERS)
	HIGHWAY STANDARDS		

GENERAL NOTES

(600 mm) FROM PAVEMENT EDGE

DIMENSIONS ARE IN ENGLISH UNITS UNLESS OTHERWISE NOTED.

ANY REFERENCE TO STANDARDS IN THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED TO BE THE LATEST STANDARDS OF THE DEPARTMENT LISTED IN THE PLANS WITH THE LATEST

DURING CONSTRUCTION OPERATIONS. LOOSE MATERIAL DEPOSITS THAT OBSTRUCT THE FLOW OF WATER IN DRAINING THE AREA SHALL BE REMOVED BEFORE THE END OF EACH WORK DAY, AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES (NEW AND EXISTING) SHALL BE FREE FROM ALL DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS. THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING PROPERTIES.

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES (48 HOURS NOTIFICATION IS REQUIRED).

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

ALL PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS OBLITERATED BY REMOVAL AND PATCHING OPERATIONS SHALL BE REPLACED AND PAID FOR IN KIND.

BEFORE STARTING ANY WORK, THE CONTRACTOR SHALL OBTAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES AND RAISED REFLECTIVE MARKERS IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPPING. EXACT LOCATIONS OF ALL THE PAVEMENT MARKINGS SHALL BE DIRECTED BY THE ENGINEER.

ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847)705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING OF WORK.

THE RESIDENT ENGINEER SHALL CONTACT WALTER CZARNY, THE AREA TRAFFIC FIELD ENGINEER, AT (847)715-8419 A MINIMUM OF TWO (2) WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF ROUND LAKE IN LAKE COUNTY.

ALL WORK MUST BE COMPLETED WITHIN 20 WORKING DAYS.

Ì	benesch engineers - scientists - pienners	
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1	1	INDEX OF	SHEET	S. STATE	STANDARDS AND	GENERAL NOTES	F.A.P.	SECTION	COUNTY	TOTAL	SHEET NO.
Į							535	1187(14)	LAKE	16	2
l	IL 60 CULVERT REMOVAL								CONTRAC	NO.	60Y0I
Į	SCALE	1 5	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FED. A	10 PROJECT		

CODE			TOTAL	ROAD
NO.	ITEM	UNIT	QUANTITY	00
		i		URB
20200100	EARTH EXCAVATION	CU YD	88	88
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	50	50
20400800	FURNISHED EXCAVATION	CU YD	284	28
21101815	COMPOST FURNISH AND PLACE, 4"	SO YD	800	80
25000310	SEEDING, CLASS 4	ACRE	0.2	0.2
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	18	18
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	18	18
25100630	EROSION CONTROL BLANKET	SQ YD	800	80
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	75	75
28000305	TEMPORARY DITCH CHECKS	FOOT	100	100
28000400	PERIMETER EROSION BARRIER	FOOT	500	50
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	90	90
44201747	CLASS D PATCHES, TYPE IV, 8 INCH	SQ YD	74	74

+					
	CODE	ITEM	UNIT	TOTAL	ROADWAY
	NO.	2,2		QUANTITY	URBAN
	-				UNUALY
	44000100	PAVEMENT REMOVAL	SO YO	90	90
	50102400	CONCRETE REMOVAL	CU YD	9.34	9.34
	50200100	STRUCTURE EVANATION	CU YD	74	74
	50200100	STRUCTURE EXCAVATION	CO 10	14	(4
	63200310	GUARDRA[L REMOVAL	FOOT	190	190
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	3
	67100100	MOBILIZATION	L SUM	1	1
	70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	200	200
ŧ	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	200	200
•	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	10	10
ŧ	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2	2
	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1
	X0800003	COARSE AGGREGATE BACKFILL (SPECIAL)	CU YO	350	350
	Z00 <u>1</u> 3798	CONSTRUCTION LAYOUT	L SUM	1	1

. SPECIALTY ITEM

benesch engineers - scientists - planners

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PLOT DATE * 8/11/2015	DATE	-	7/31/2015	REVISED		

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_	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	535	118T(14)	LAKE	16	3
			CONTRACT	`NO. €	1040
		ILLINOIS FED. A	O PROJECT		

100% STATE

				STATE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0040 URBAN
-				ONBAR
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	200	200
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	4	4
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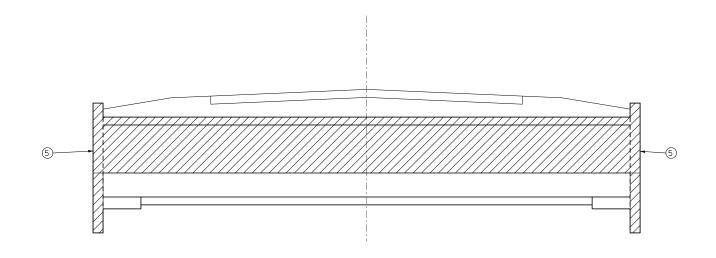
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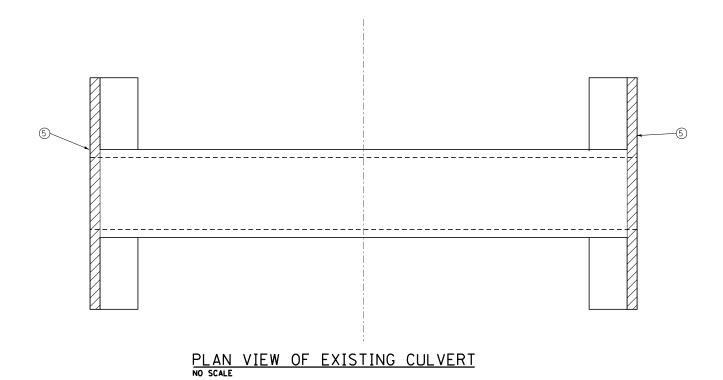
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			NAMII	Y OF QUA	F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.		
	IL 60 CULVERT REMOVAL						535	1187(14)	LAKE	16	4
			1L 00 CC	KYENI HI	TINIOAME				CONTRAC	T NO. 6	10Y08
1	SCALE: SHEET OF SHEETS STA. TO STA.							ILLINOIS FED. A	O PROJECT		



EXISTING CULVERT SECTION LOOKING EAST NO SCALE



HOT-MIX ASPHALT MIXTURE REQUIREMENTS						
MIXTURE TYPE	DESIGN AIR VOIDS	THICKNESS	QMP			
PAVEMENT CLASS D PATCHES, TYPE IV (HMA BINDER L-19mm)	4% © 70 GYR	8"	QC/QA			
OMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE						

NOTES:

THE UNIT WEIGHT USED TO CALCULATE AL HMA SURFACE COURSE MIXTURES IS 112 LBS/SO-YD/IN.

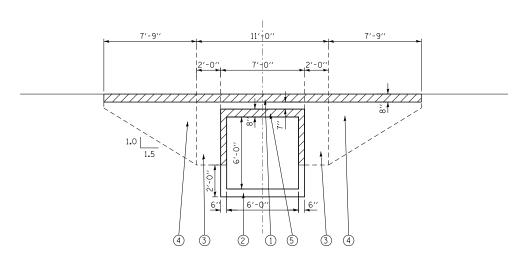
FOR "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-28" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

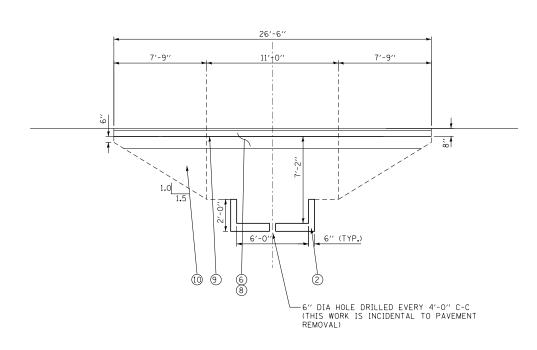
"QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE."

LEGEND

- 1 PAVEMENT REMOVAL
- 2 EXISTING BOX CULVERT
- 3) STRUCTURE EXCAVATION
- 4 EARTH EXCAVATION
- 5 CONCRETE REMOVAL
- 6 CLASS D PATCHES, TYPE IV, 8"
- 7) NOT LISED
- 8 AGGREGATE SUBGRADE IMPROVEMENT 12"
- 9 BITUMINOUS MATERIALS (PRIME COAT)
- (1) COARSE AGGREGATE BACKFILL (SPECIAL)



EXISTING BOX CULVERT SECTION LOOKING NORTH NO SCALE



PROPOSED BOX CULVERT SECTION LOOKING NORTH NO SCALE

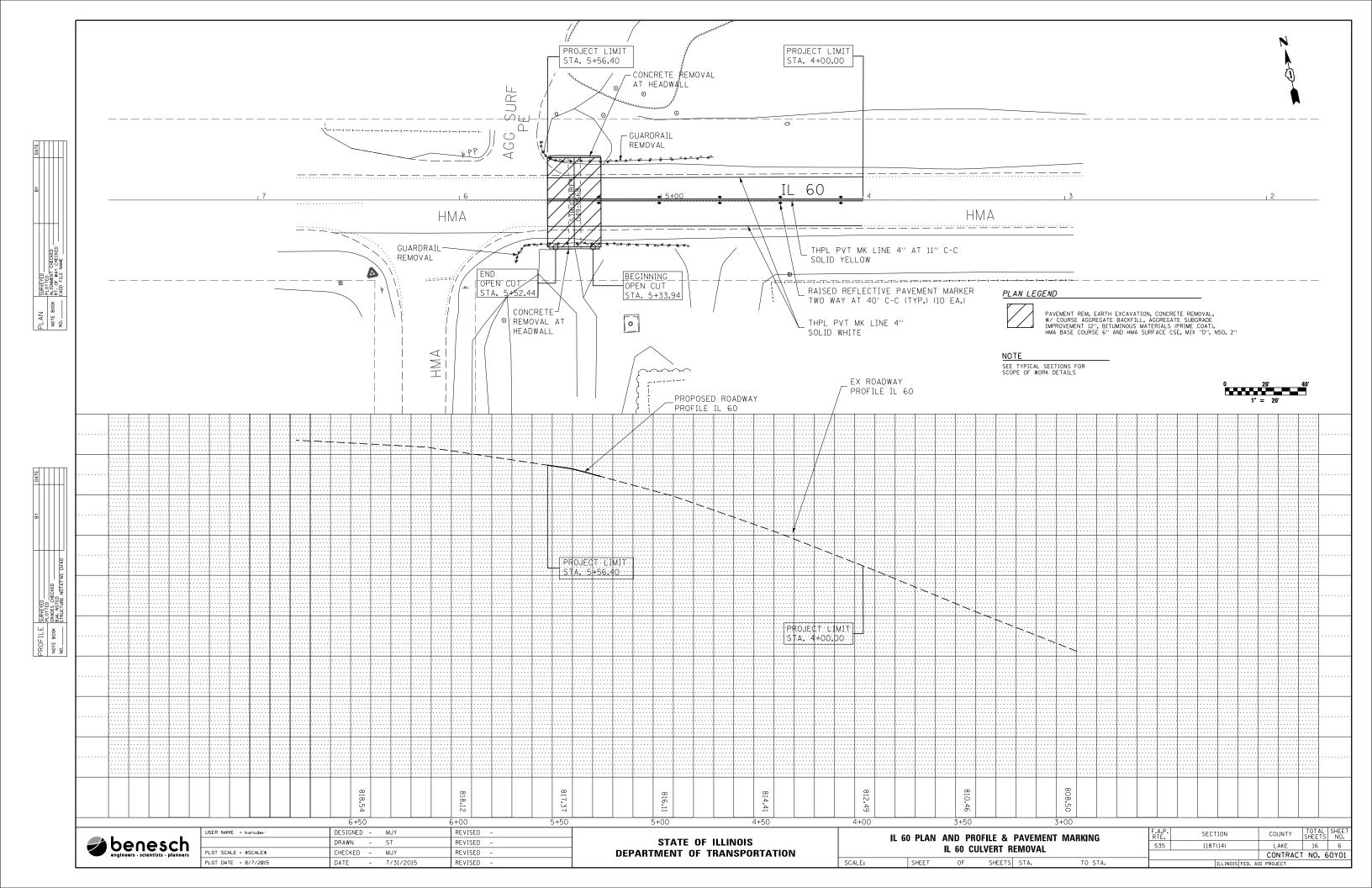
EARTHWORK SCHEDULE

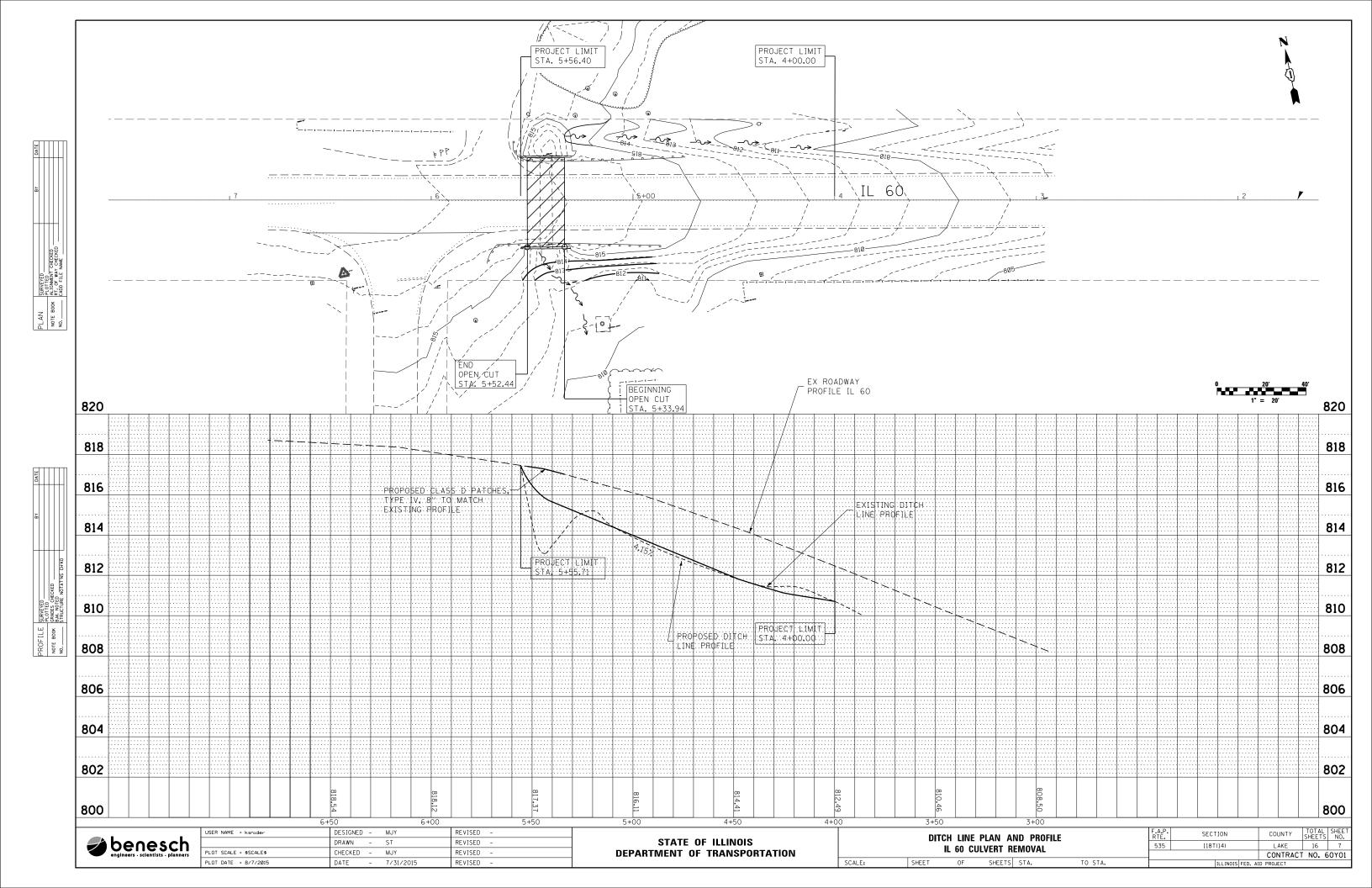
LOCATION	EARTH EXCAVATION (CU.YD.)	UNSUITABLE MATERIAL (CU.YD.)	EXCAVATION USED FOR EMBANKMENT 15% SHRINKAGE (CU.YD.)	COARSE AGGREGATE BACKFILL (SPECIAL) (CU.YD.)	EMBANKMENT (CU.YD.)	EARTHWORK BALANCE WASTE (+) SHORTAGE (-) (CU.YD.)
STA. 4+00 TO 5+55.71	88	50	75	50	284	-209

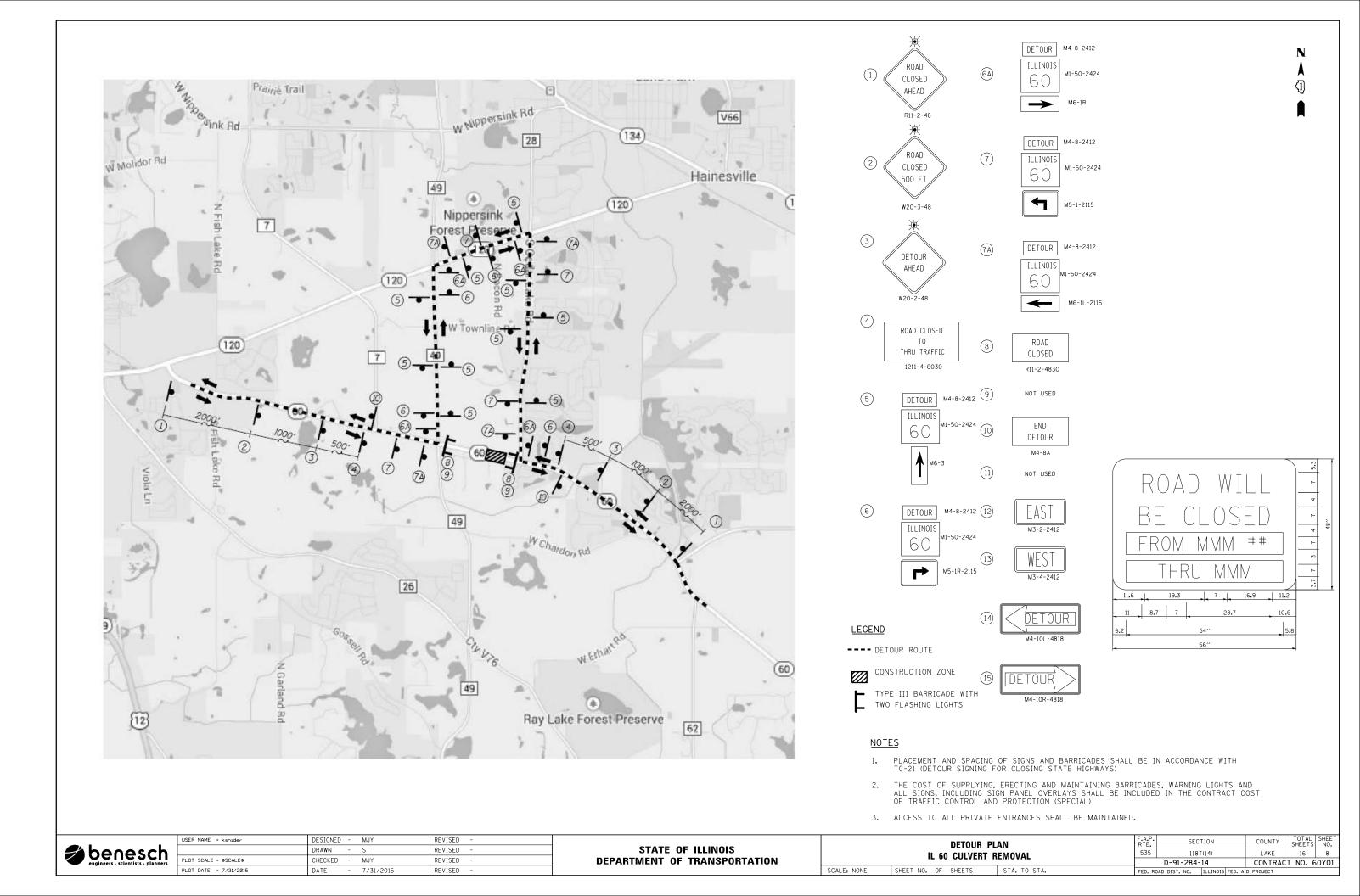


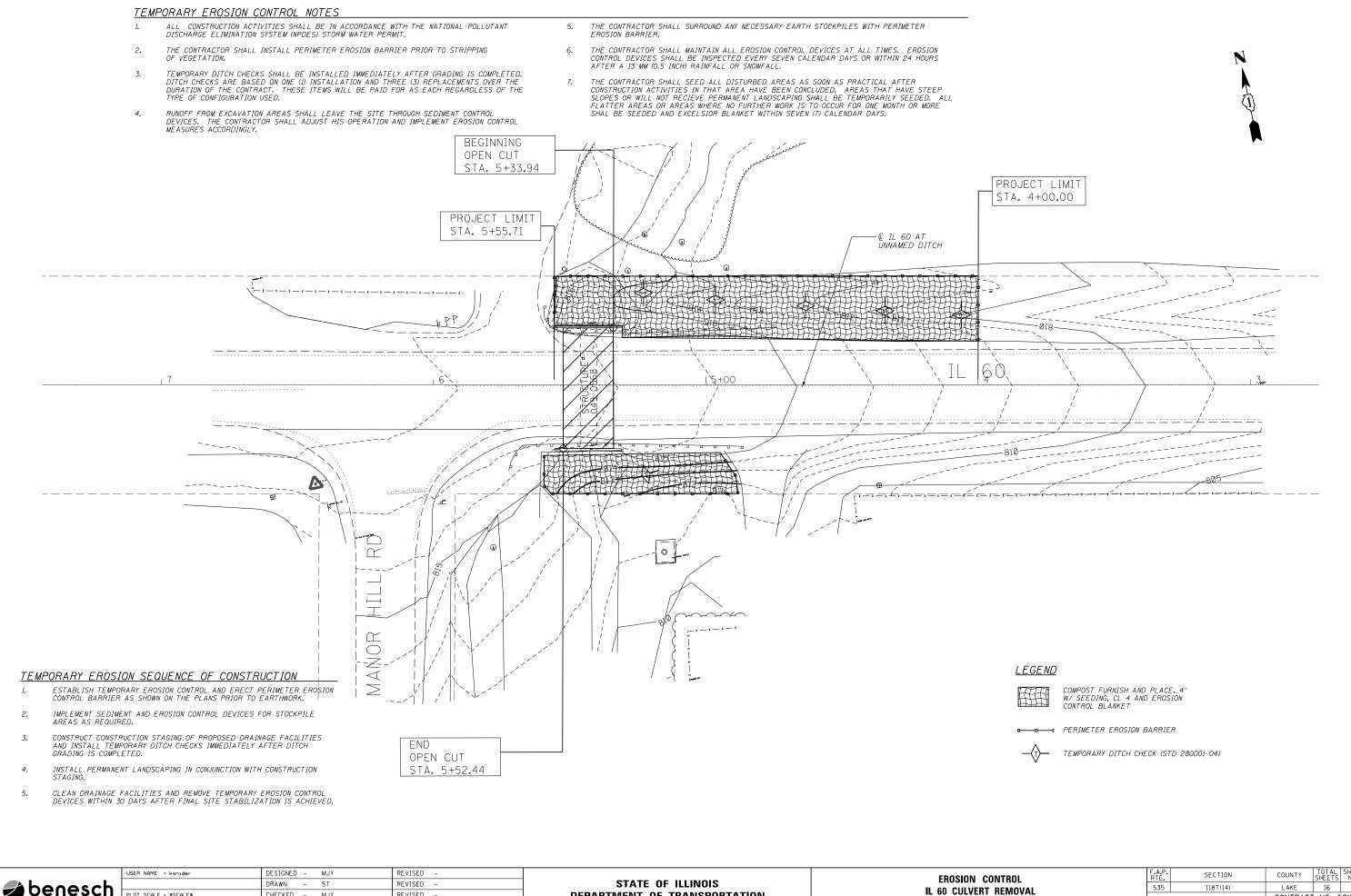
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IL 60 CULVERT REMOVAL					535	118T(14)	LAKE	16	5	
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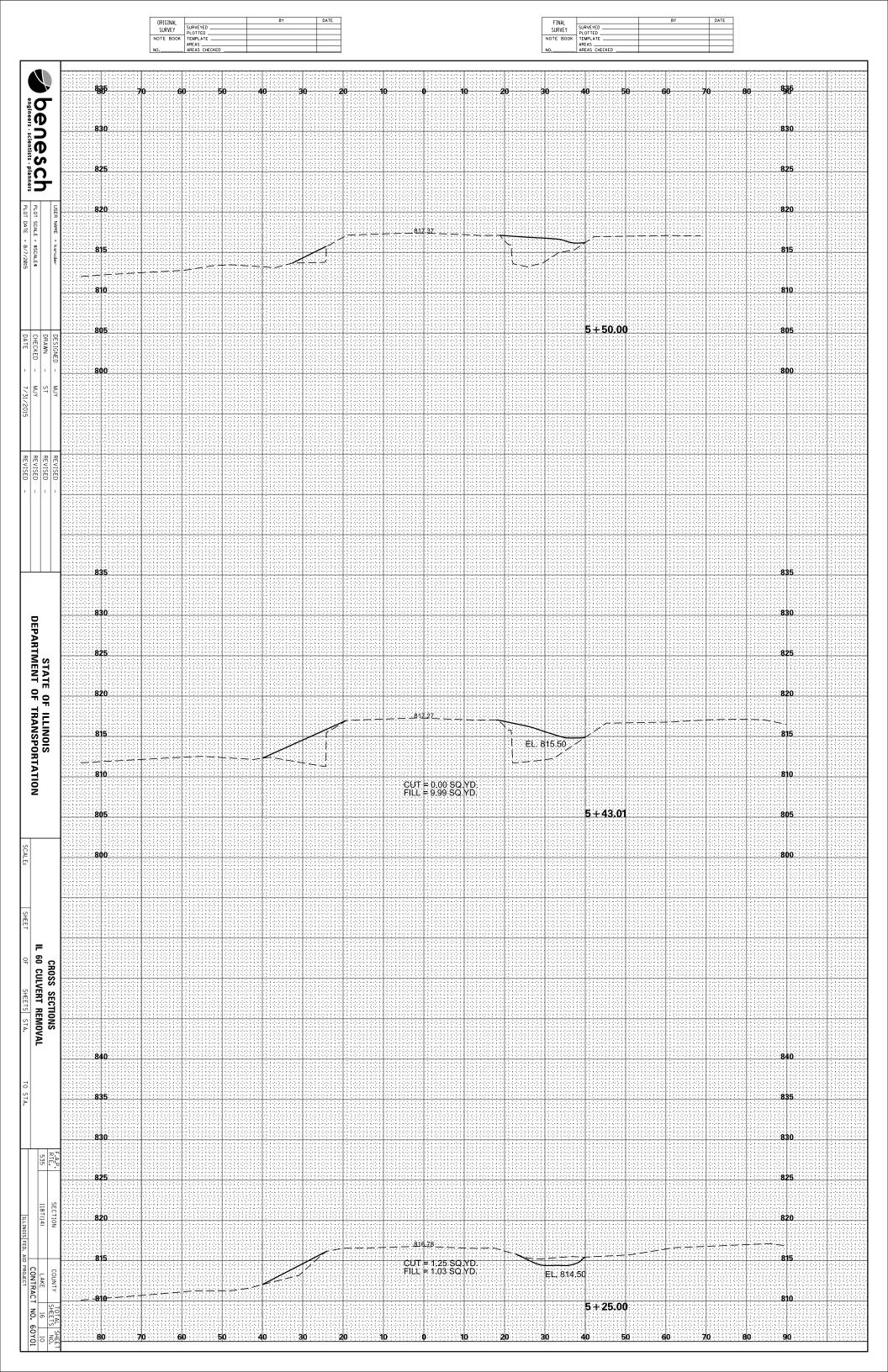
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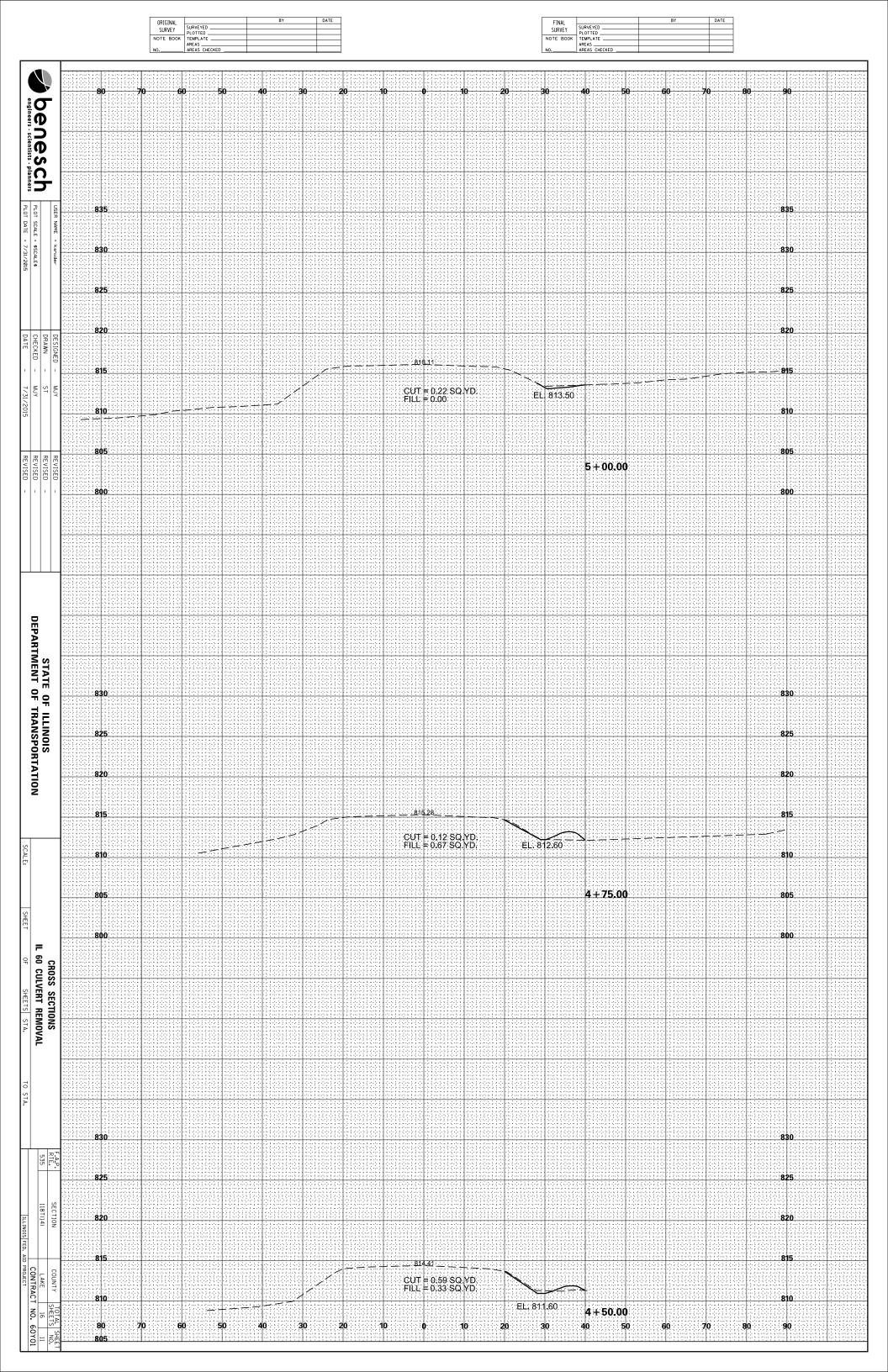
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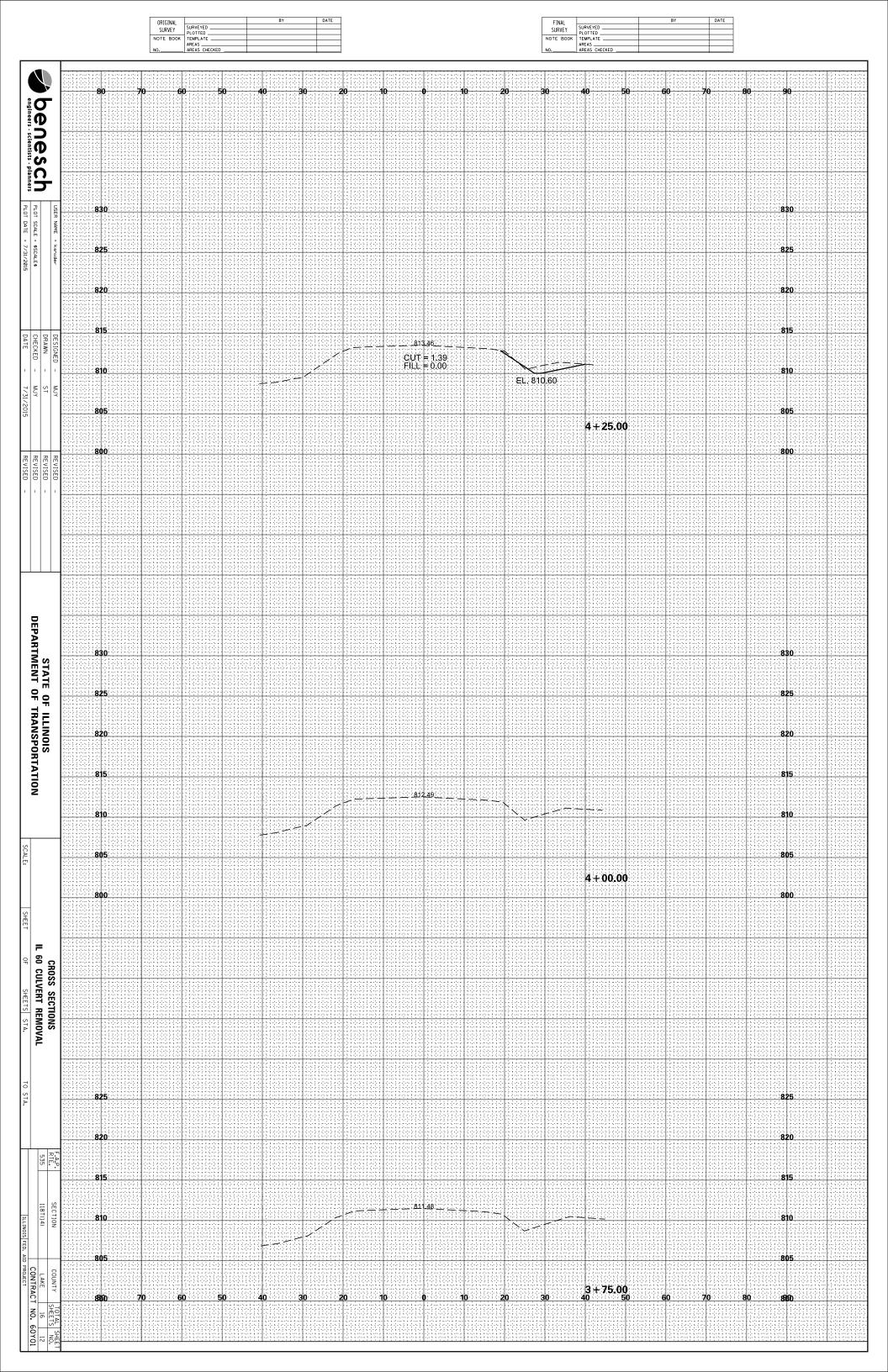
SHEET

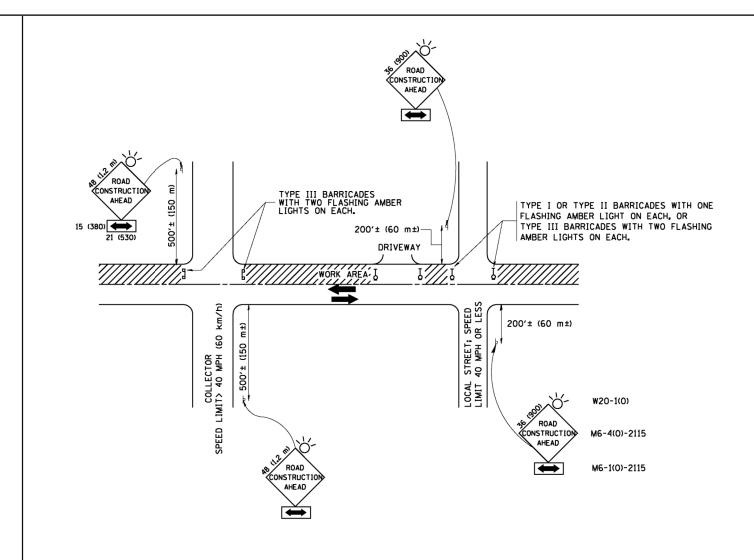
SCALE:

EROSION CONTROL 60 CULVERT REMOVAL		F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHE		
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TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- O) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN POLITE
- 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 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- d) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROLLE.
- 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).

SCALE:

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

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.

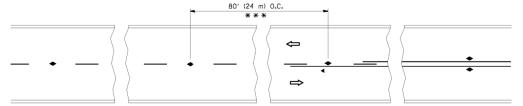
All dimensions are in millimeters (inches) unless otherwise shown.



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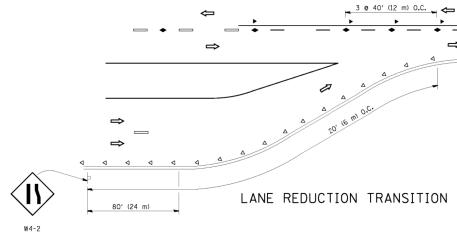
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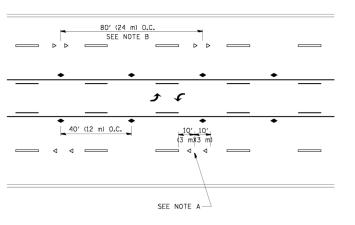
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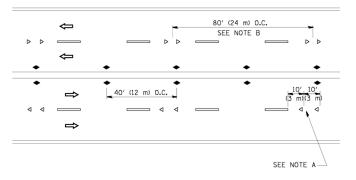
*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

TWO-LANE/TWO-WAY

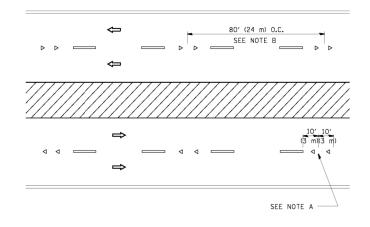




TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

- 1. MARKERS USED WITH DASHED LINES SHALL BE
- 2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
- MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

SYMBOLS

- ---- YELLOW STRIPE
- ── WHITE STRIPE
- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (₩/O)
- ◆ TWO-WAY AMBER MARKER

DESIGN NOTES

- 1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
- 2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
- 3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
- 4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.

LEFT TURN

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



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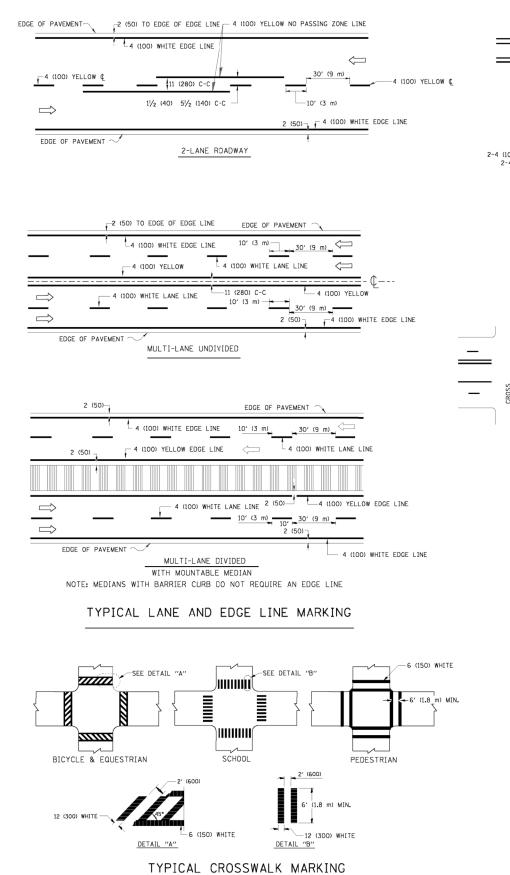
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

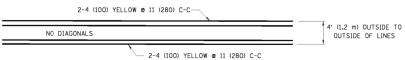
TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)						RESISTANT)	F. R
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F.A.P. SECTION COUNTY TOTAL SHEETS NO.

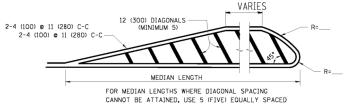
535 118T(14) LAKE 16 14

CONTRACT NO. 60Y01



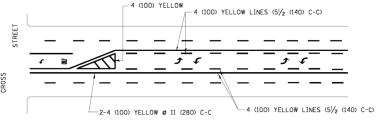


4' (1.2 m) WIDE MEDIANS ONLY

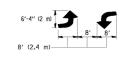


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

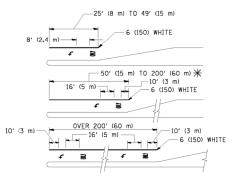


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

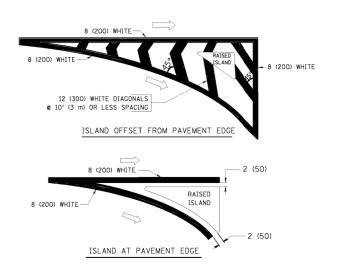


 \uparrow AREA = 15.6 SQ. FT. (1.5 m²) (NLY AREA = 20.8 SQ. FT. (1.9 m²)

* TURN LANES IN EXCESS OF 400' (120 m) 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



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 2 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 51/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	8' (2.4m) 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 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 2 4 (100) WITH 12 (300) DIAGONALS	SOLID	YELLOW: TWO WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE
	e 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS		WHITE: ONE WAY TRAFFIC	SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
SHOULDER DIAGONALS	12 (300) e 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 1150' (45 m) C-C (OVER 45MPH (70 km/h))

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

SCALE:

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

USER NAME = ksnider	DESIGNED	-	MJY	REVISED -
	DRAWN	-	ST	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED	-	MJY	REVISED -
PLOT DATE = 8/13/2015	DATE	-	7/31/2015	REVISED -

DISTRICT ONE TYPICAL PAVEMENT MARKINGS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
					535	118T(14)	LAKE	16	15		
	_								CONTRACT	NO.	60Y01
	SHEET	OF	SHEETS	STA.	TO STA.			TILL INDIS FED. A	ID PROJECT		

