06-14-13 LETTING ITEM 015

FOR INDEX OF SHEETS, SEE SHEET NO. 2

TRAFFIC DATA

EXISTING ADT |L 176: 15800 (2009) POSTED SPEED LIMIT 35 TO 45

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAP ROUTE 335 - IL 176 SECTION 145X-RS

RIVER ROAD TO ROBERTS ROAD **McHENRY COUNTY ROADWAY RESURFACING**

C-91-635-10

GRISWOLD LAKE Village of Island

IMPROVEMENT ENDS STA. 68 + 57.00

> STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

LOCATION OF SECTION INDICATED THUS:-

F.A.U RTE. 335

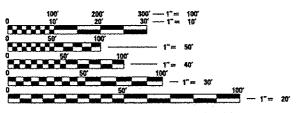
Mc HENRY 20 1
RLINOIS CONTRACT NO. 60L07

SUBMITTED Decamber 14 20 1

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

IMPROVEMENT BEGINS STA. 20 + 00.00

PROJECT IS LOCATED IN THE VILLAGE OF ISLAND LAKE



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 OR 811

PROJECT ENGINEER PROJECT MANAGER ROBERT BORO (847) 705-4237

ISSAM RAYYAN



LOCATION MAP

NUNDA TWP

NOT TO SCALE

NET LENGTH = 4.857 FT. = 0.92 MILE

WAUCONDA TWP

GROSS LENGTH = 4,857 FT. = 0.92 MILE

IL. LIC. NO. 062-053199

EXP 11-30-7013 DATE 12-11- 2012

CONTRACT NO. 60L07

INDEX OF SHEETS *******

SHEET NO.	DESCRIPTION **********	-
\$	TITLE SHEET	2
2	GENERAL NOTES AND HIGHWAY STANDARDS	
3	SUMMARY OF QUANTITIES	-
4 - 5	TYPICAL CROSS SECTIONS	3
6 - 7	EXISTING AND PROPOSED ROADWAY AND PAVEMENT MARKING PLANS	,
8 - 10	DETECTOR LOOP REPLACEMENT PLANS	1
11	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING (80-8)	,
12	PAVEMENT PATCHING FOR HMA SURFACED PAVMENT (BD-22)	
13	CURB AND GUTTER REMOVAL AND REPLACEMENT (BD-24)	Į
14	BUTT JOINT AND HMA TAPER DETAIL (BD-32)	ŧ
15	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS. INTERSECTIONS. AND DRIVEWAYS (TC-10)	1
16	TYPICAL APPLICATION RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT) (TC-11)	1
17	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)	f
18	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING (TC-16)	2
19	ARTERIAL ROAD INFORMATION SIGN (TC-22)	٤
20	DISTRICT ONE DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING (TS-07)	L
		1

GENERAL NOTES

1. BEFORE STARTING ANY EXCAVATION. THE CONTRACTOR SHALL CALL "JULIE" AT 1-800-892-0123 DR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED)

- 2. 10 FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURBS AND GUTTER AND MEDIANS IN THE FIELD. UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.
- 3. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES. AND THE VILLAGE OF ISLAND LAKE.
- 4. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- 5. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE
- 6. BEFORE BEGINNING ANY WORK. THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE. ALL EXISTING PAVEMENT MARKING LINES AND RAISED REFLECTIVE PAVEMENT MARKERS IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.
- 7. ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- 8. LOCATION OF COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT. WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- 9. DRAINAGE ADJUSTMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- 10. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- 11. THE CONTRACTOR SHALL CONTACT THE IDOT TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- 12. THE RESIDENT ENGINEER SHALL CONTACT MS. DEBBIE HANLON. AREA TRAFFIC FIELD ENGINEER AT (847) 438-2300 A MINIMUM OF TWO WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- 13. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT. THIS SHALL BE INCIDENTAL TO THE CONTRACT.
- 14. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- 15. WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1.5 INCHES WHERE THE SPEED LIMIT IS 45 NPH OR LESS AND 1 INCH WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH. WITH WRITTEN APPROVAL FROM THE ENGINEER. A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).

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

- 17. OVERNIGHT CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION PROJECTS INVOLVING DAYTIME MILLING AND RESURFACING OPERATIONS AND CLASS D PATCHING UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURES AS DETERMINED AND APPROVED IN WRITING BY THE ENGINEER OR AS PROVIDED FOR IN THE CONTRACT SPECIFICATIONS.
- 18. PAVEMENT MARKING TAPE. TYPE 111 SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES. THE COST OF THE PAVEMENT MARKING TAPE. TYPE 111 AND ITS REMOVAL SHALL BE INCLUDED IN THE COST OF SHORT TERM PAVEMENT MARKINGS.

COMMITMENTS ******* NONE

406201-4/ MAILBOX TURNOUT

442201-03 CLASS C AND D PATCHES

606001-04 CONCRETE CURB TYPE 8 AND COMBINATION CONCRETE CURB AND GUTTER

635006-03 REFLECTOR AND TERMINAL MARKER PLACEMENT

635011-02 REFLECTOR MARKER AND MOUNTING DETAILS

701006-04 OFF-ROAD OPERATIONS. 2L. 2W. 4.5 m (15') TO 600 mm (24") FROM PAVEMENT EDGE

701101-03 OFF-ROAD OPERATIONS, MULTILANE, 4.5 m (15') TO 600 mm (24") FROM PAVEMENT EDGE

701301-04 LANE CLOSURE. 2L. 2W. SHORT TIME OPERATIONS

701306-03 LANE CLOSURE. 2L. 2W. SLOW MOVING OPERATIONS DAY ONLY. FOR SPEEDS >= 45 MPH

701311-03 LANE CLOSURE. 2L. 2W. MOVING OPERATIONS - DAY ONLY

701336-06 LANE CLOSURE, 2L. 2W. WORK AREAS IN SERIES, FOR SPEEDS >= 45 MPH

701501-06 URBAN LANE CLOSURE. 2L. 2W. UNDIVIDED

701701-08 URBAN LANE CLOSURE. MULTILANE INTERSECTION

701901-02 TRAFFIC CONTROL DEVICES

780001-03 TYPICAL PAVEMENT MARKINGS

781001-03 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

F Stantec

REVISED DESIGNED MRN ISER KAME : dazomazek DRAWN STANTEC REVISED 101 SCALE : 50.0000 17 CHECKED REVISED TMH (OI DAIR : 12/11/2001 DATE 12/2012 REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

IL ROUTE 176 ROADWAY RESURFACING **GENERAL NOTE & HIGHWAY STANDARDS**

SCALE:50.0000 '/ IN SHEET NO. OF SHEETS STA.

TOTAL SECTION 335 145X-RS MCHENRY 20 CONTRACT NO. 60L07 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

SUMMARY OF QUANTITIES

2 24.7			URBAN		
			100%	CONSTRUCTIO	N TYPE CODE
			STATE	ROADWAY 0005	
CODE NO.	ITEM	TINU	TOTAL		
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YO	32	32	
20400800	FURNISHED EXCAVATION	CU YO	60	60	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YO	714	714	
21400100	GRADING AND SHAPING DITCHES	FOOT	365	365	
25000210	SEEDING, CLASS 2A	ACRE	0.1	0.1	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	12	12	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	12	12	
25100630	EROSION CONTROL BLANKET	SQ YD	714	714	
25200110	SODDING, SALT TOLERANT	SO YD	81	81	
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	26	26	
40600300	AGGREGATE (PRIME COAT)	TON	155	155	
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	30	30	
40600827	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4,75, N50	TON	1,050	1,050	
40600895	CONSTRUCTING TEST STRIP				
40600333		EACH	2	2	
	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	203	203	
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	2, 310	2, 310	
42001300	PROTECTIVE COAT	SO YD	35	35	
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SO YO	25, 005	25, 005	
44201803	CLASS D PATCHES, TYPE II, 13 INCH	SO YD	480	480	
44201807	CLASS D PATCHES, TYPE III, 13 INCH	SO YD	115	115	
44201809	CLASS D PATCHES, TYPE IV, 13 INCH	SO YO	115	115	
48101620	AGGREGATE SHOULDERS, TYPE B 10"	SO YO	15	15	
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	760	760	
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	2	2	
63100167	TRAFFIC BARRIER TERMINAL, TYPE I (SPECIAL) TANGENT	EACH			
63200310	GUARDRAIL REMOVAL	FOOT	50	50	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6	
67100100	MOBILIZATION	L SUM	1	1	
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1		
70100600	TRAFFIC CONTROL AND PROTECTION, STANDARD 701336	L SUM	1	1	
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	41	
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	I	
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	2, 709	2, 709	
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	790	790	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	F00T	32, 415	32, 415	
			261 742	241712	

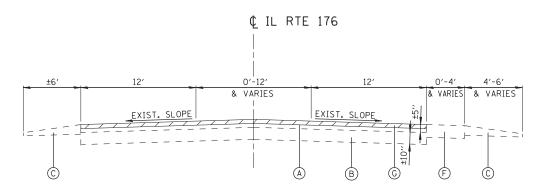
			URBAN 100%	CONSTRUCTION	TYPE COD
			STATE	ROADWAY 0005	
CODE NO.	ITEM	UNIT	TOTAL		
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	1, 933	1, 933	
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	455	455	
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	852	852	
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	787	787	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	15, 292	15, 292	·
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	395	395	
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	16, 207	16, 207	
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1,933	1, 933	
78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	228	228	
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	426	426	
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	394	394	
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	218	218	
78200420					
	GUARDRAIL MARKERS, TYPE B	EACH	4	4	
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	1	1	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	214	214	
88600600	DETECTOR LOOP REPLACEMENT	FOOT	1, 429	1, 429	
X2020110	GRADING AND SHAPING SHOULDERS	UNIT	95	95	
X4400220	CURB REMOVAL AND REPLACEMENT	FOOT	150	150	
X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	4	4	······································
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	6	6	
20030850	TEMPORARY INFORMATION SIGNING	SO FT	102.8	102.8	·
			<u> </u>		
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* SPECIALTY ITEMS

*Specialty Hems

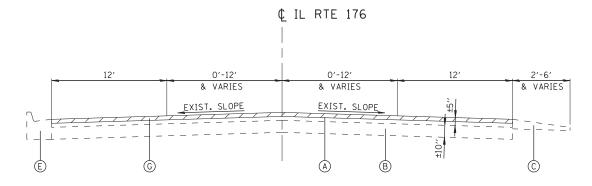
Stantec

E KARE - dpieraczek	DESIGNED	MRN	REVISED -
	DRAWN -	STANTEC	REVISED -
n wae - 1820 - / In.	CHECKED -	TMH	REVISED -
01 Delt - 12/0/2012	DATE	12/11/2012	REVISED



EXISTING TYPICAL SECTION

STA. 20+00 TO STA. 21+00 N.T.S.



EXISTING TYPICAL SECTION

STA. 21+00 TO STA. 36+50 N.T.S.

EXISTING LEGEND

- A HMA PAVEMENT, ± 5"
- B PCC PAVEMENT, ± 10"
- AGGREGATE SHOULDER, VARIABLE DEPTH
- GUARDRAIL
- E PCC CURB & GUTTER TYPE B-6.12 OR B-6.24
- (F) HMA SHOULDER
- HMA SURFACE REMOVAL 21/4"

¢ IL RTE 176 SEE SAFETY EDGE DETAIL -— SEE SAFETY EDGE DETAIL 0'-4' & VARIES & VARIES EXIST. SLOPE EXIST. SLOPE 1 2 2 34 43

PROPOSED TYPICAL SECTION

STA. 21+00 TO STA. 36+50 N.T.S.

SEE SAFETY EDGE DETAIL-0'-12' 0'-12' & VARIES & VARIES EXIST. SLOPE EXIST. SLOPE

¢ IL RTE 176

PROPOSED LEGEND

- 1) HMA SURFACE COURSE, MIX "D", N70, 11/2"
- 2 POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, 3/4"
- * 3 AGGREGATE WEDGE SHOULDER, TYPE B
- * 4 GRADING & SHAPING SHOULDERS
- * 5 TOPSOIL AND SEEDING

34

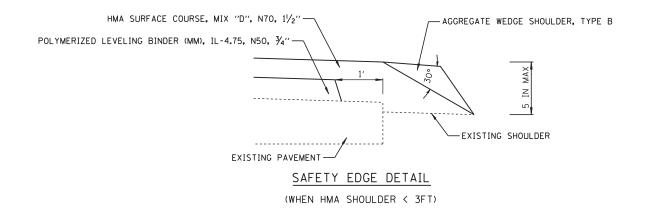
* 6 COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT

* NOTE: LIMITS OF THESE PROPOSED ITEMS TO BE DETERMINED IN THE FIELD BY THE RESIDENT ENGINEER.

PROPOSED TYPICAL SECTION

STA. 20+00 TO STA. 21+00 N.T.S.

THE CONTRACTOR SHALL MILL FIRST **BEFORE PATCHING**



MIX DESIGNS	AIR VOIDS (%) @ Noe
RESURFACING	
HMA SURFACE COURSE, MIX 'D', N70; (IL-9.5mm) 11/2"	4% @ 70 GYRATIONS
POLYMERIZED LEVELING BINDER, IL-4.75, N50; 3/4"	3.5% @ 50 GYRATION
PATCHING	
CLASS D PATCHES (BINDER IL-19MM)	4% @ 70 GYRATIONS

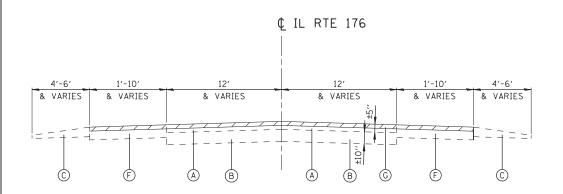
NOTE: THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURES IS 112 LBS/SY/IN.

THE "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 -22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.



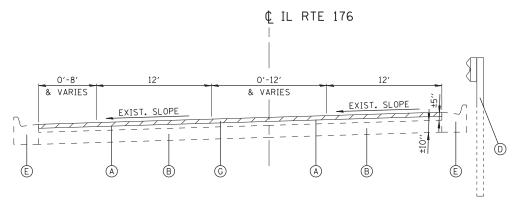
USER NAME = dpieniazek	DESIGNED - MRN	REVISED -
	DRAWN - STANTEC	REVISED -
PLOT SCALE = 50.000 '/ IN.	CHECKED - TMH	REVISED -
PLOT DATE = 12/11/2012	DATE - 12/2012	REVISED -

		IL ROUTE	176 R	OADWAY	RESUR	FACING	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TYPICAL SECTIONS							145X-RS	McHENRY	20	4
ļ	TITIOAL SECTIONS								CONTRACT	NO. 60	L07
	SCALE:50.000 '/ IN.	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. RO.	AD DIST. NO. 1 ILLINOIS FED. A	ID PROJECT		



EXISTING TYPICAL SECTION

STA. 36+50 TO STA. 62+00 N.T.S.



EXISTING TYPICAL SECTION

STA. 62+00 TO STA. 70+00 N.T.S.

EXISTING LEGEND

- A HMA PAVEMENT, ± 5"
- B PCC PAVEMENT, ± 10"
- AGGREGATE SHOULDER, VARIABLE DEPTH
- GUARDRAIL
- E PCC CURB & GUTTER TYPE B-6.12 OR B-6.24
- F HMA SHOULDER
- HMA SURFACE REMOVAL 21/4"

¢ IL RTE 176 SEE SAFETY EDGE DETAIL SEE SAFETY EDGE DETAIL 1'-10' 1'-10' & VARIES & VARIES & VARIES & VARIES 43 1 34

¢ IL RTE 176 0'-8' & VARIES & VARIES EXIST. SLOPE EXIST. SLOPE 1 £6

PROPOSED TYPICAL SECTION

STA. 36+50 TO STA. 62+00 N.T.S.

THE CONTRACTOR SHALL MILL FIRST **BEFORE PATCHING**

PROPOSED TYPICAL SECTION

STA. 62+00 TO STA. 70+00 N.T.S.

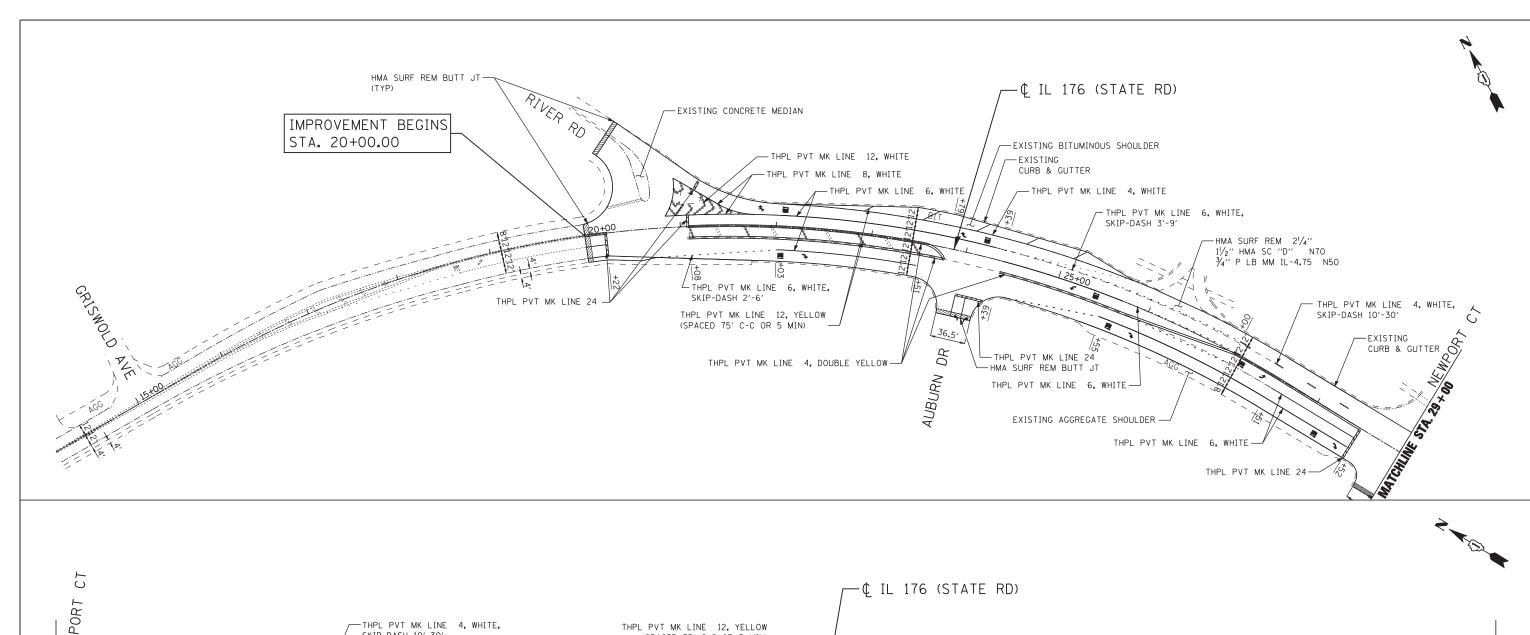
PROPOSED LEGEND

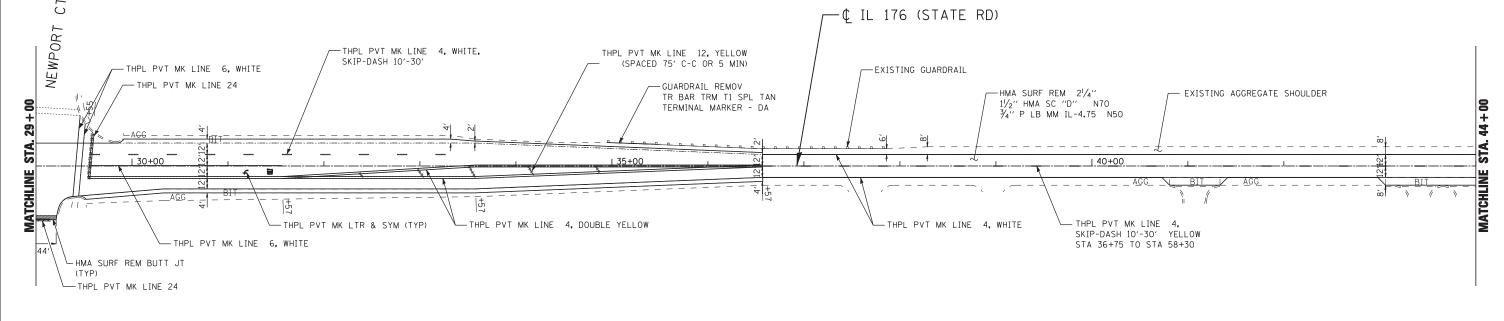
- 1 HMA SURFACE COURSE, MIX "D", N70, $1\frac{1}{2}$ "
- 2 POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, 3/4"
- *3 AGGREGATE WEDGE SHOULDER, TYPE B
- * 4 GRADING & SHAPING SHOULDERS
- *(5) TOPSOIL AND SEEDING
- *6 COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT
- * NOTE: LIMITS OF THESE PROPOSED ITEMS TO BE DETERMINED IN THE FIELD BY THE RESIDENT ENGINEER.

Stantec

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	DRAWN	-	STANTEC	REVISED -	
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PLOT DATE = 12/11/2012	DATE	-	12/2012	REVISED -	
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145X-RS McHENRY 20 5 CONTRACT NO. 60L07 TO STA. FED. ROAD DIST. NO. 1 | ILLINOIS FED. AID PROJECT





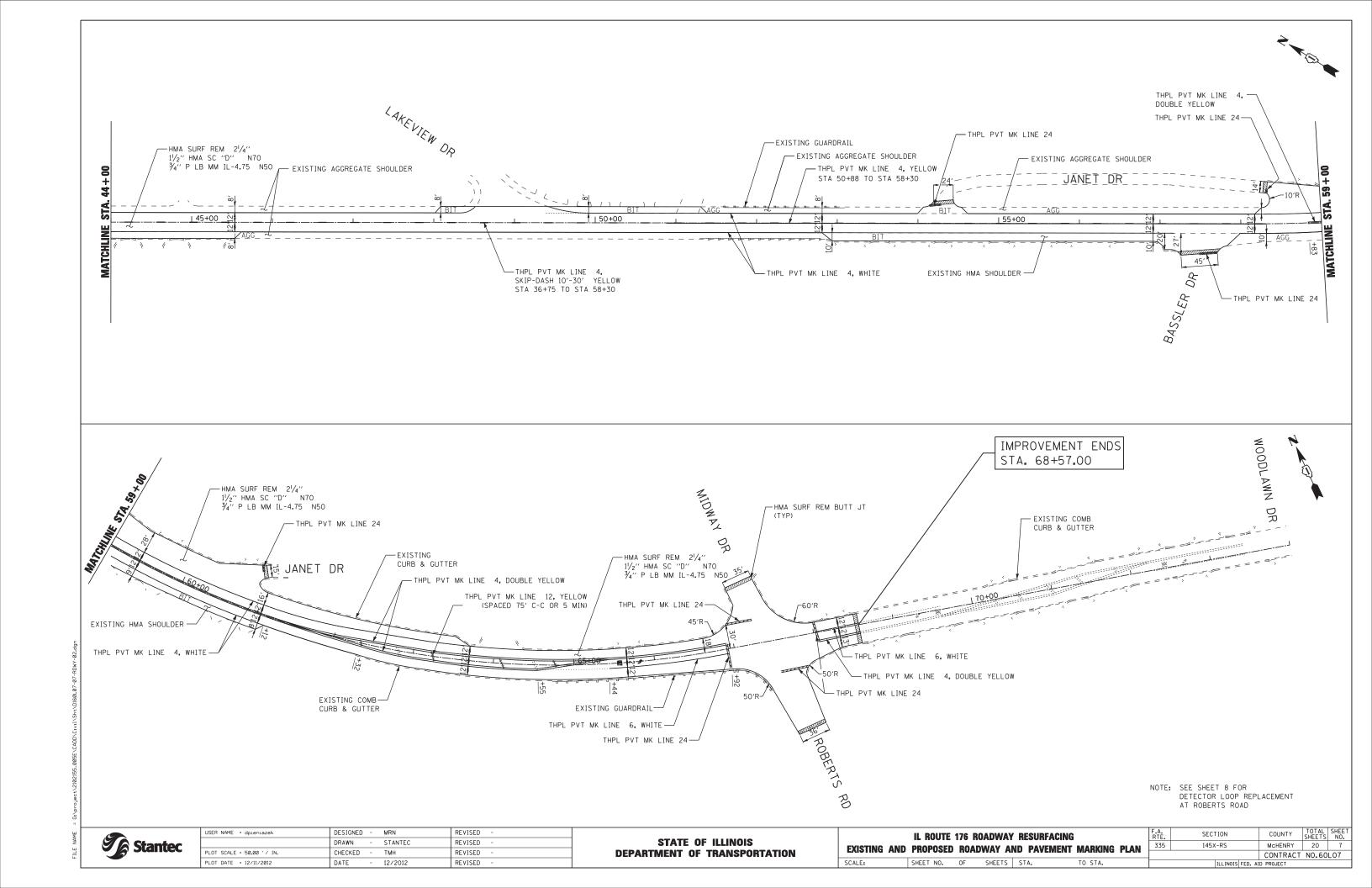
NOTE: SEE SHEETS 9 AND 10 FOR
DETECTOR LOOP REPLACEMENT
AT RIVER ROAD AND NEWPORT CT

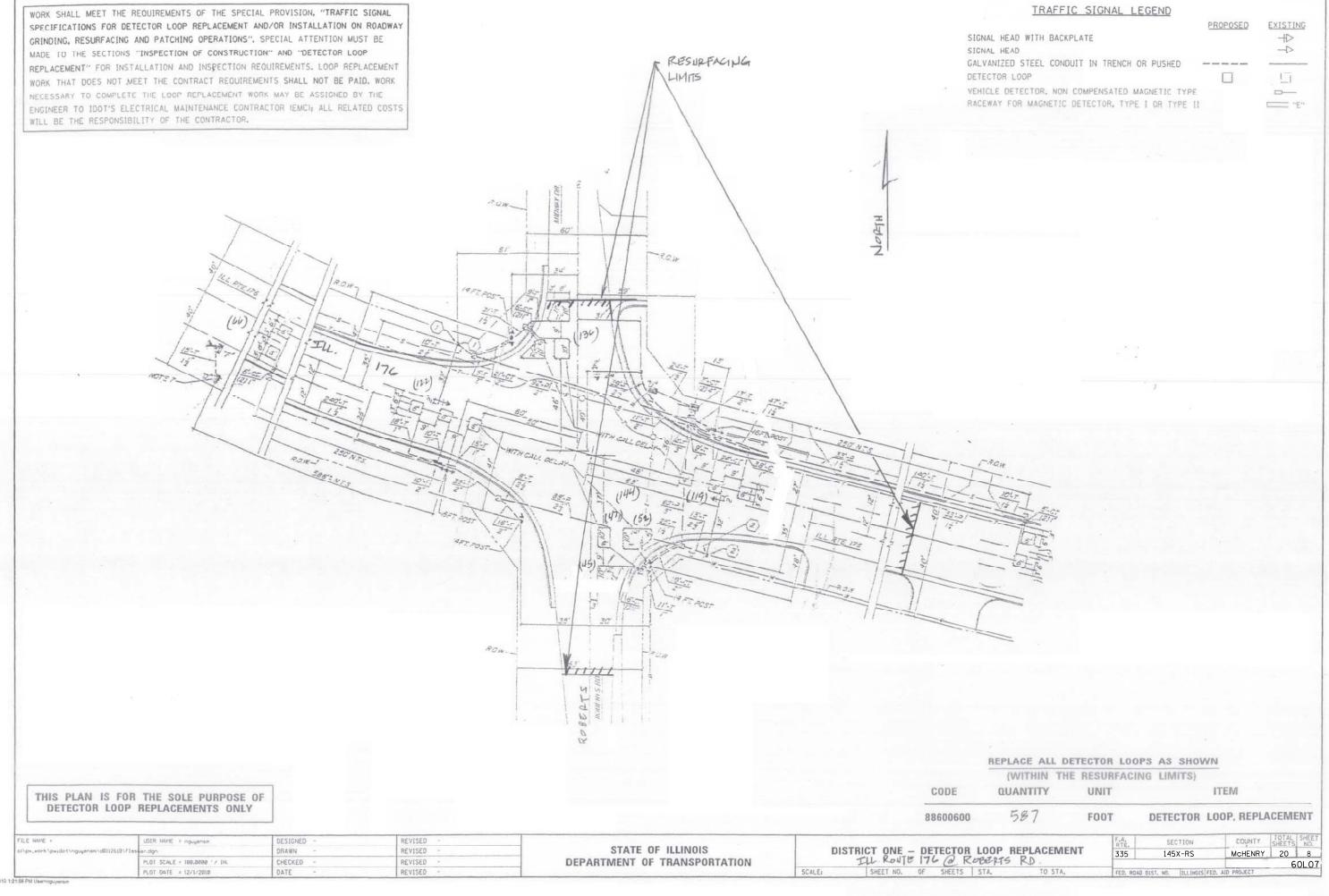
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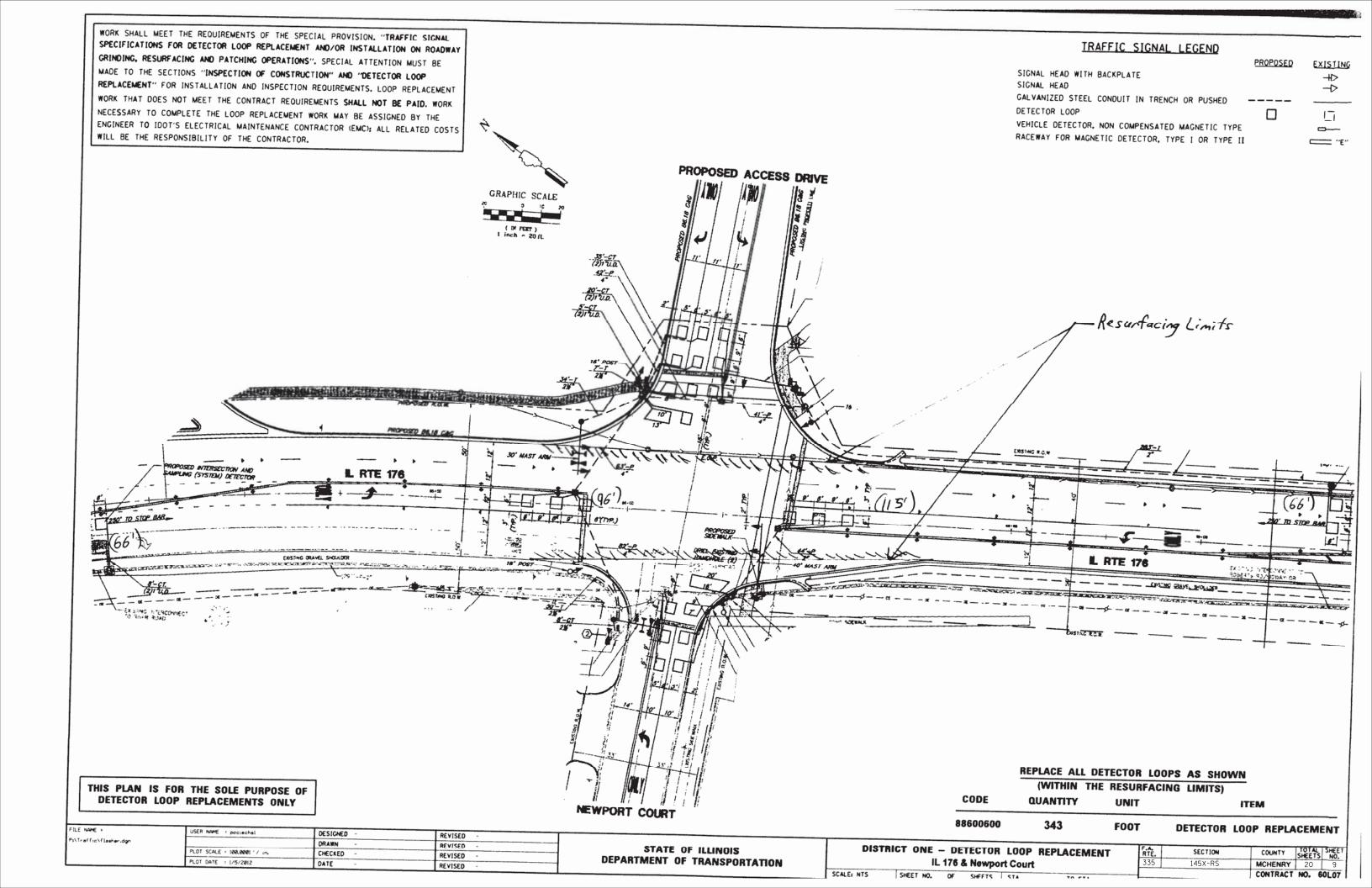
USER NAME = dpieniazek	DESIGNED	-	MRN	REVISED -	
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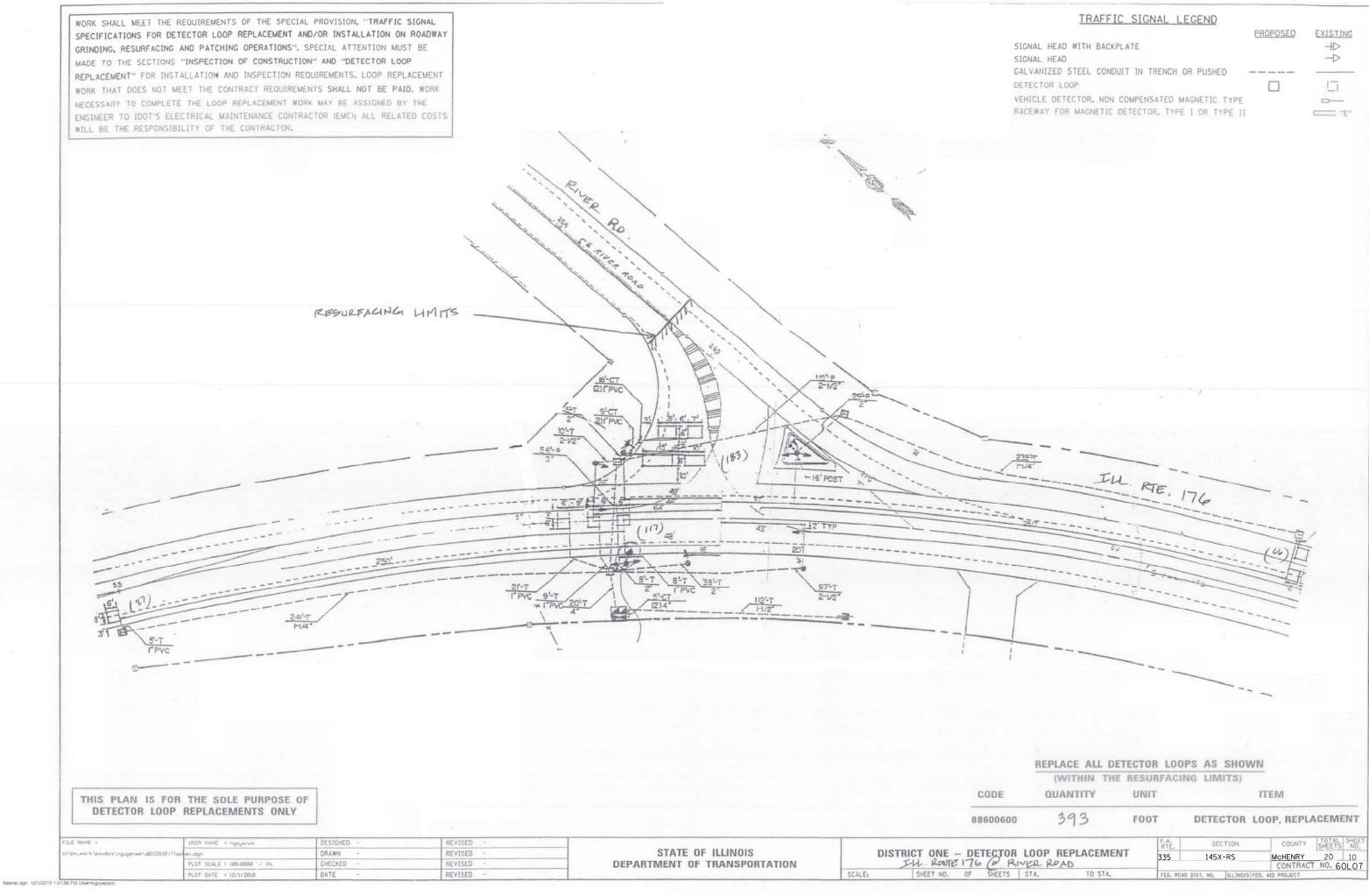
ı	IL ROUTE 176 ROADWAY RESURFACING								
ı	FYISTING AND	PROPOSED	RΩ	ADWAY AI	ND PAN	EMENT MARKING	PI AN	335	
ı	EXIGINIO AND	I HOI OOLD	110	APIIAI AI	יאו שו	LIVILIA IVIAIIMIA	I EAN		
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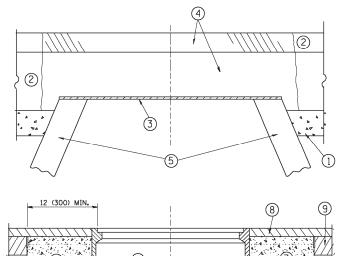
RTE.	SECTION	COUNTY	SHEETS	NO			
335	145X-RS	McHENRY	20	6			
		CONTRACT	NO.60	L07			
ILLINOIS FED. AID PROJECT							











PROPOSED BRICK, MORTAR, OR CONC. ADJUSTING RINGS

NOTES:

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM
- AROUND THE STRUCTURE.

 B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER
- METAL PLATE.

 D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 11/2 (40)
 THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1*
 CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING
 BASE COURSE OR THE BINDER COURSE.
- *UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

LEGEND

- 1 SUB-BASE GRANULAR MATERIAL
- (6) FRAME AND LID (SEE NOTES)
- 2 EXISTING PAVEMENT
- 7 CLASS PP-1* CONCRETE
- 3 36 (900) DIAMETER METAL PLATE
- PROPOSED HMA SURFACE COURSE
- PROPOSED CRUSHED STONE AND HMA SURFACE MIX

 EXISTING STRUCTURE
- 9 PROPOSED HMA BINDER COURSE

LOCATION OF STRUCTURES:

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT:

REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."

THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

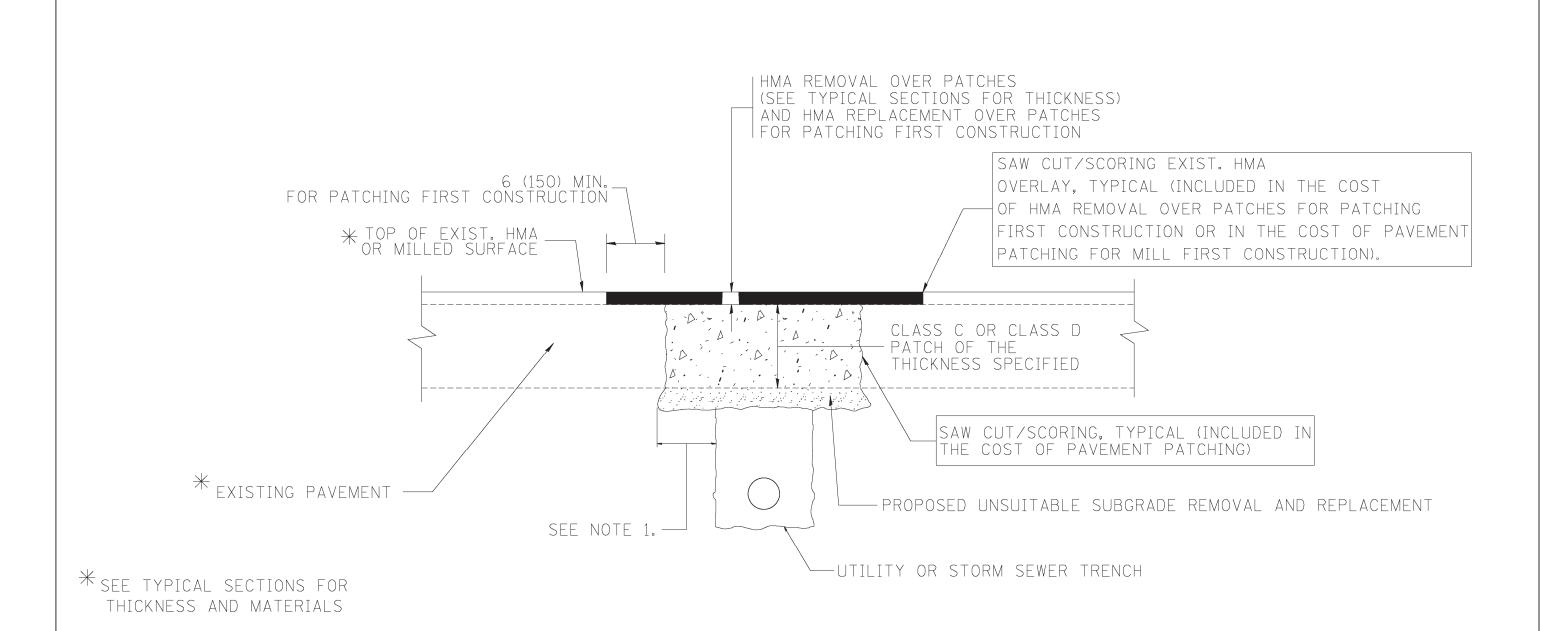
DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME =	USER NAME = bauerdl	DESIGNED -	R. SHAH	REVISED	- R. WIEDEMAN 05-14-04	1
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	PLOT SCALE = 1968.5000 '/ m	CHECKED -		REVISED	- R. BORO 03-09-11	7
	PLOT DATE = 12/6/2011	DATE -	10-25-94	REVISED	- R. BORO 12-06-11	7

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	DETAILS FOR										
	FRAMES AND	LIDS	ADJUSTM	ENT WITH	MILLING						
CALE: NONE	SHEET NO. 1	OF 1	SHEETS	STA.	TO	STA					



NOTES:

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

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

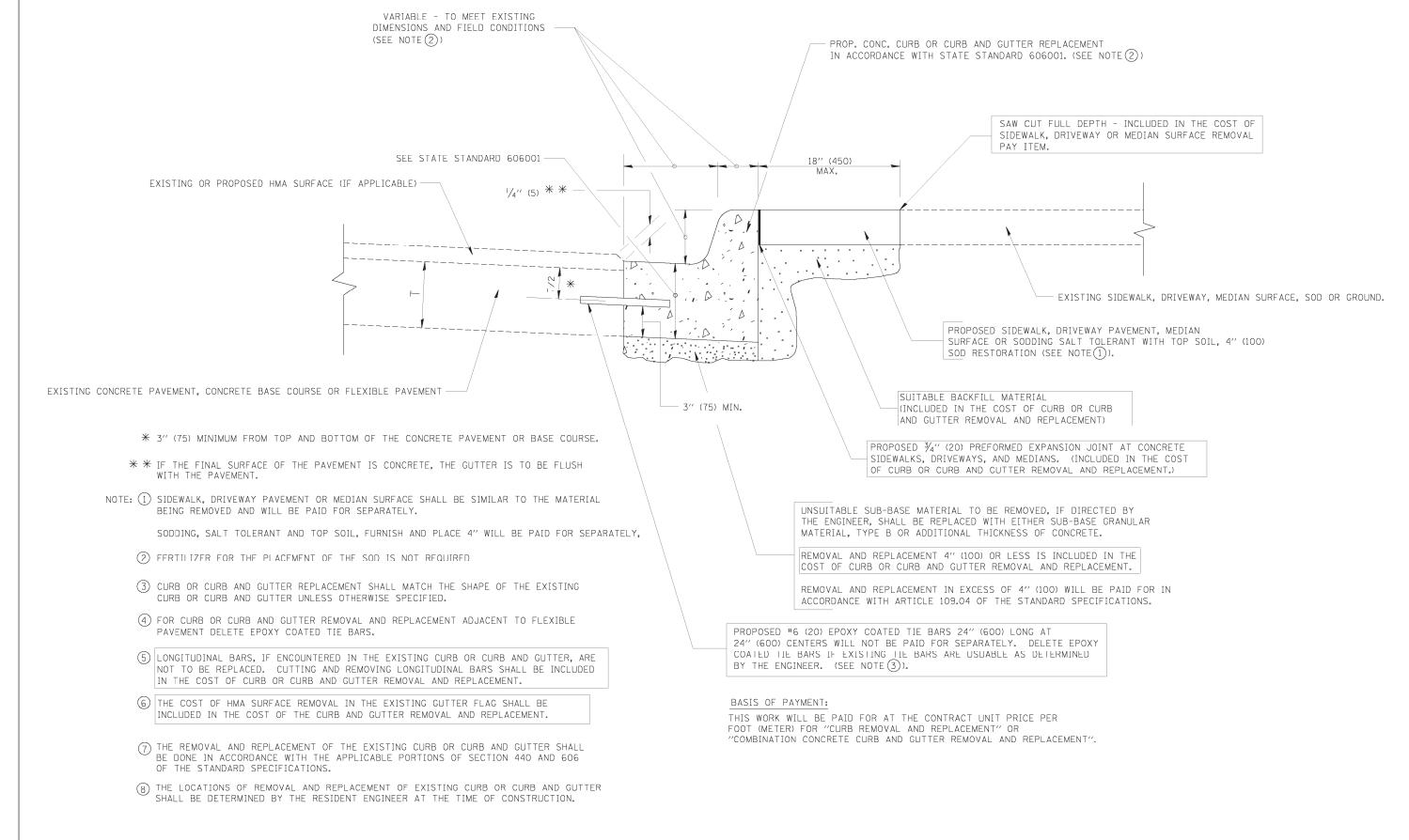
- 1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
- 2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
- 3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

- 1. MILL HMA FIRST IF THERE IS AT LEAST 41/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
- 2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

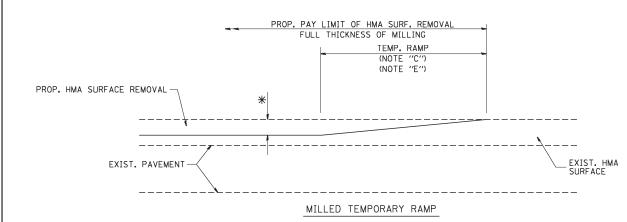
FILE NAME =	USER NAME = bauerdl	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98			PAVEMENT PATCHING	EOD	F.A	SECTION	COUNTY	TOTAL SHEET
c:\projects\diststd22x34\bd22.dgn		DRAWN -	REVISED - R. BORO 01-01-07	STATE OF ILLINOIS				335	145X-RS	McHENRY	20 12
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED - R. BORO 09-04-07	DEPARTMENT OF TRANSPORTATION		HMA SURFACED PAVEN	MENT	BI	D400-04 (BD-22)	CONTRAC	T NO. 60L07
	PLOT DATE = 10/27/2008	DATE - 10-25-94	REVISED - K. ENG 10-27-08		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS ST.	TA. TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS F	ED. AID PROJECT	



CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

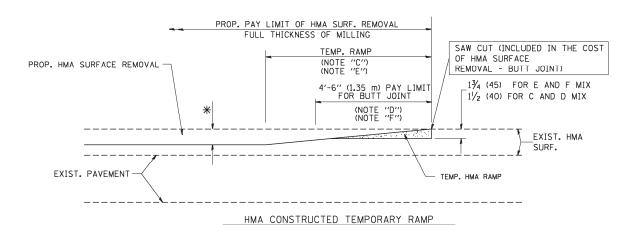
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

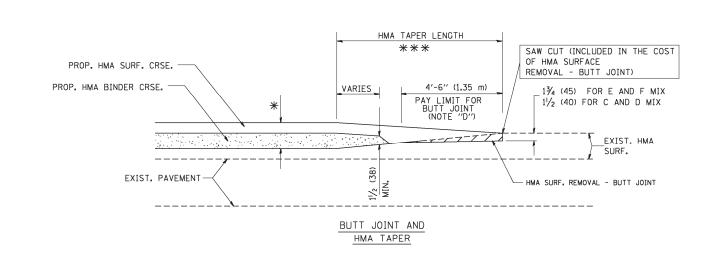
OPTION 1



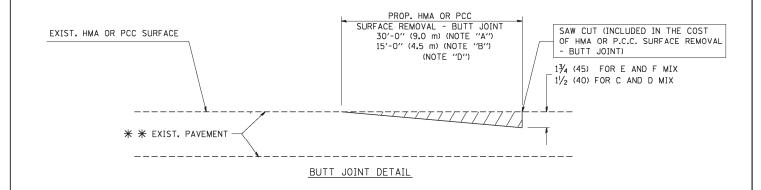
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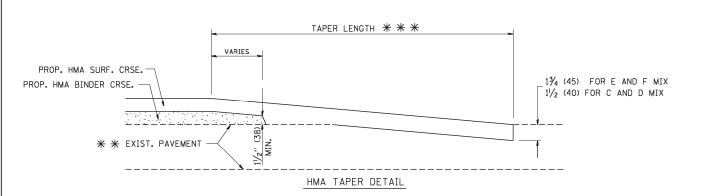
TYPICAL TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING





TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B: MINOR SIDE ROADS.
- C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
- F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL BUTT JOINT
- G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- $m{\#}$ SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

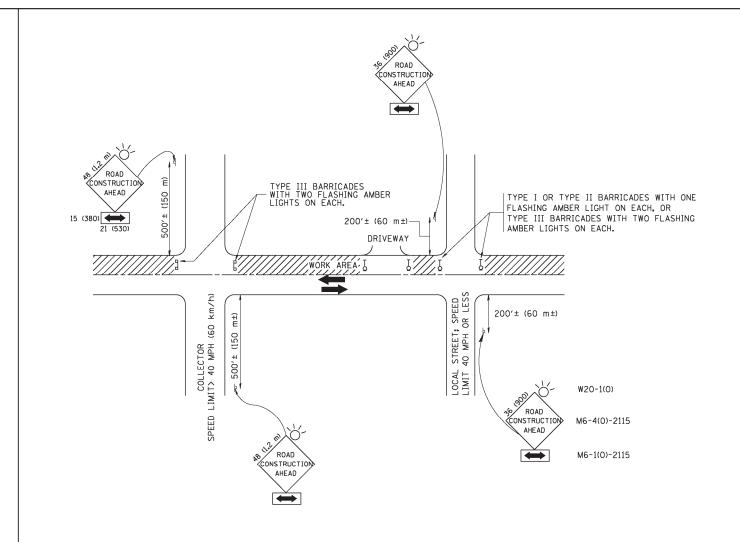
BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".

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

FILE NAME =	USER NAME = gaglianobt	DESIGNED - M. DE YONG	REVISED -	R. SHAH 10-25-94
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	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED -	M. GOMEZ 04-06-01
	PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED -	R. BORO 01-01-07

		BUT	T JOINT A	F.A RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
	HMA TAPER DETAILS							McHENRY	20	14
NIMA TAPEN DETAILS							BD400-05 BD32	CONTRACT	NO. 6	OL07
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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
- 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:
- Q) 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 ROUTE.
- 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 \times 48 (1.2 m \times 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) 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 (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

- 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.

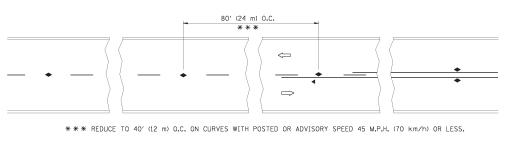
All dimensions are in millimeters (inches) unless otherwise shown.

FILE NAME =	USER NAME = gaglianobt	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
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	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED -T. RAMMACHER 01-06-00

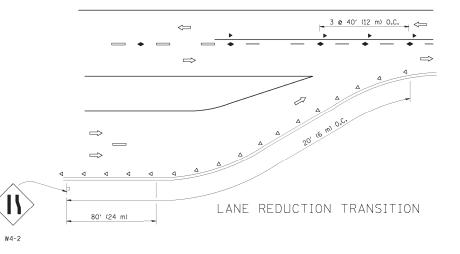
STATI	E OF	: ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

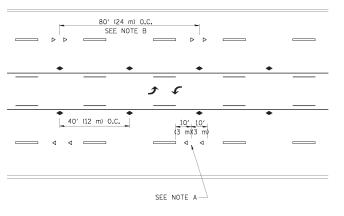
TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS								
SCALE: NONE	SHEET NO. 1 OF 1	SHEETS	STA.	TO STA.				

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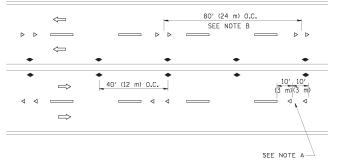


TWO-LANE/TWO-WAY

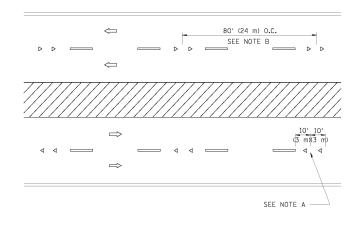




TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

- 1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
- 2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
- 3. 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 (W/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 SHOULD BE INCLUDED IN THE PLANS.
- MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.

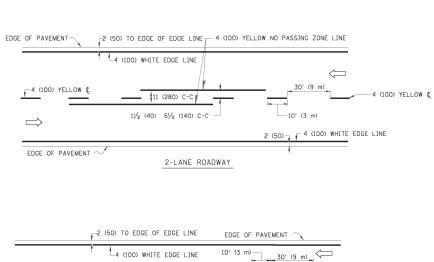
LEFT TURN

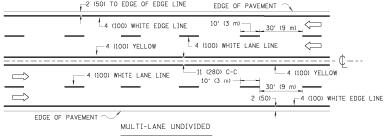
All dimensions are in inches (millimeters) unless otherwise shown.

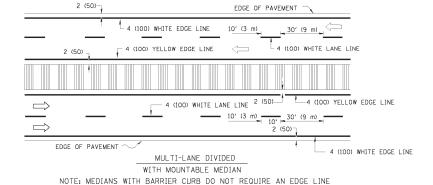
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		PLOT SCALE = 50.000 '/ IN.	CHECKED	-	REVISED	-T. RAMMACHER	01-06-00
		PLOT DATE = 9/9/2009	DATE	-	REVISED	- C. JUCIUS	09-09-09

TYPICAL APPLICATIONS												_
	RAISED	RE	FLECTI	VE	PA۱	/EN	IENT	MARKER	lS	(SNOW-PLOW	RESISTANT)	
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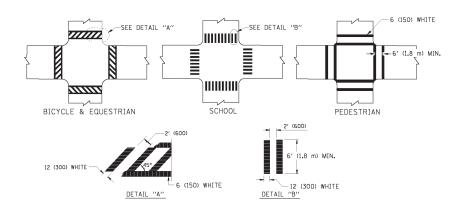
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	F.A RTE.	SEC.	ΓΙΟΝ		COUNTY	TOTAL SHEETS	SHEET NO.								
	335	145×	-RS			McHENRY	20	16							
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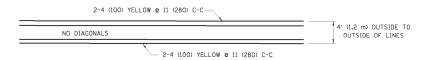




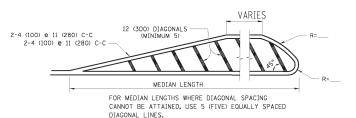
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING

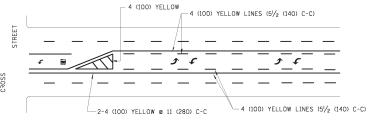


4' (1.2 m) WIDE MEDIANS ONLY

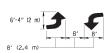


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

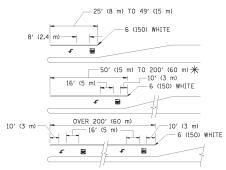


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

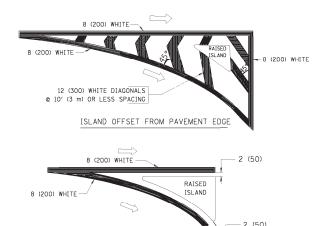


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. \P_1 AREA = 15.6 SO. FT. (1.5 m²) ONLY AREA = 20.8 SO. FT. (1.9 m²)

* 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

ISLAND AT PAVEMENT EDGE

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 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/ ₂ (140) C-C FROM SKIP-DASH CENTERLINE 11 1280) 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' (500) 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 @ 4 (100) WITH 12 (300) DIAGONALS Ø 45°	SOLID	YELLOW: TWO WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE
	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 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) @ 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) T0 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

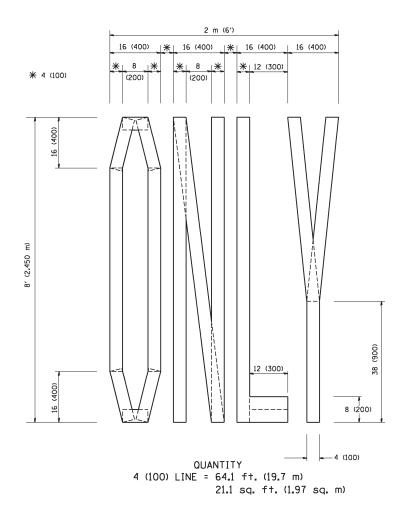
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

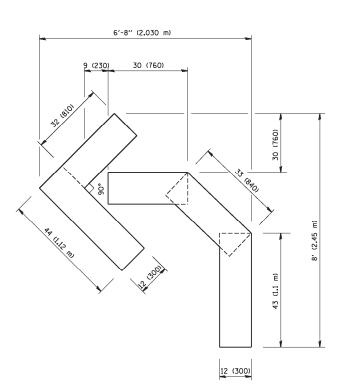
All dimensions are in inches (millimeters) unless otherwise shown.

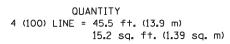
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PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -
PLOT DATE = 9/9/2009	DATE - 03-19-90	REVISED -

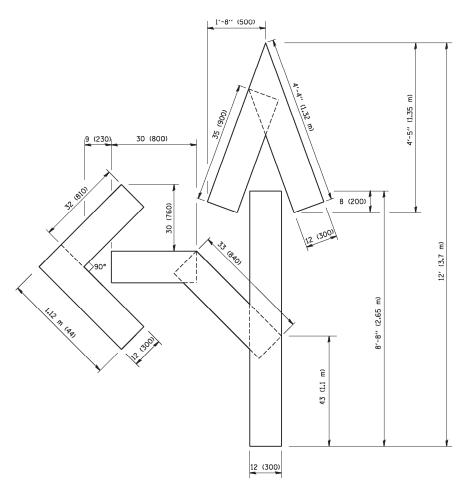
STATE	OF	ILLINOIS
DEPARTMENT (OF 1	TRANSPORTATION

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	TYPICAL PAVEMENT MARKINGS						McHENRY	20	17
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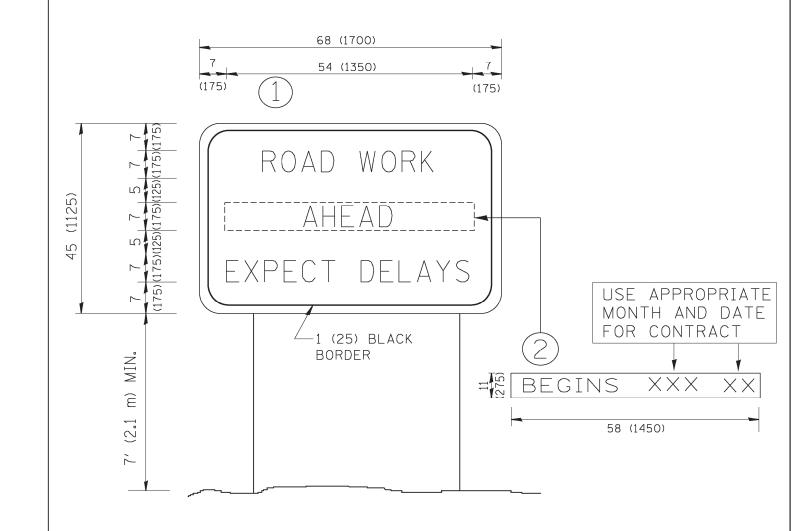




QUANTITY 4 (100) LINE = 82.5 ft. (25.3 m) 27.5 sq. ft. (2.53 sq. m)

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

FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED -T. RAMMACHER 06-05-96	OTATE OF HILINOIS		PAVEMENT MARKING LETTERS AND SYMBOLS	RTE.	SECTION	COUNTY SHEETS NO.
W:\diststd\22x34\tc16.dgn		DRAWN -	REVISED -T. RAMMACHER 11-04-97	STATE OF ILLINOIS		FOR TRAFFIC STAGING	335	145X-RS	McHENRY 20 18
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED -T. RAMMACHER 03-02-98	DEPARTMENT OF TRANSPORTATION	FUN TRAFFIC STAGING			TC-16	CONTRACT NO. 60L07
	PLOT DATE = 1/4/2008	DATE - 09-18-94	REVISED - E. GOMEZ 08-28-00		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD D	IST. NO. 1 ILLINOIS FED	. AID PROJECT



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 25.70 SQ. FT. (2.3 SQ. M.)
- 7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

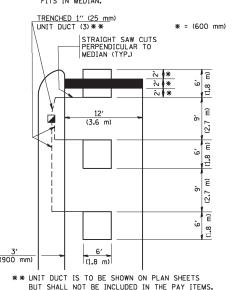
FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - R. MIRS 09-15-97	•		ARTERIAL ROA	A.D.	F.A	SECTION	COUNTY	TOTAL SHEET
W:\diststd\22x34\to22.dgn		DRAWN -	REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS				335	145X-RS	McHENRY	20 19
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -T. RAMMACHER 02-02-99	DEPARTMENT OF TRANSPORTATION		INFORMATION SIGN			TC-22	CONTRACT	T NO. 60L07
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD			

PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER. PAVED OR NON-PAVED SHOULDER * = (600 mm) * * UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS. ARTERIAL - VOLUME DENSITY ("FAR OIL"

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
814001 TO ENSURE THAT HANDHOLE
FITS IN MEDIAN.

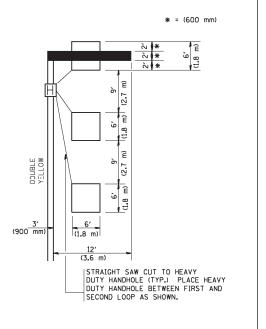


NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO

PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

LEFT TURN LANES WITHOUT MEDIANS VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH

(PROTECTED / PERMITTED LEFT TURN PHASING)

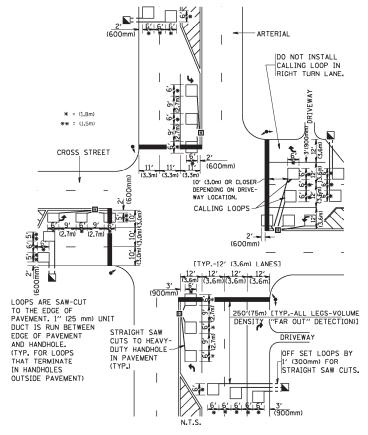


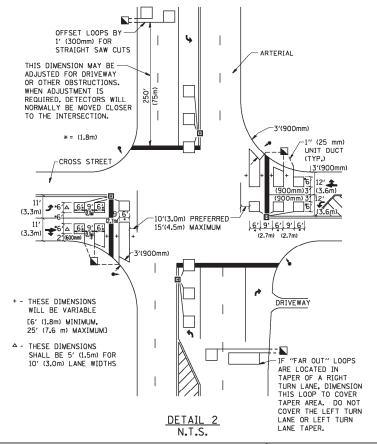
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

SCALE:

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

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





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 TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE 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 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 PAVEMENT 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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	PLOT SCALE = 50.0000 '/ IN.	CHECKED - R.K.F.	REVISED -
	PLOT DATE = 1/4/2008	DATE -	REVISED -

DETAIL 1

	DIS					OOP INST Ay resur	ALLATION FACING
NONE	SHEET	NO. 1	OF	1	SHEETS	STA.	TO STA.

F.A RTE.	SE	CTION			COUNTY	TOTA SHEET		SHEET NO.
335	145	X-RS	Τ	McHENRY	20	20		
	TS-	07	Τ	CONTRACT	NO.	6	0L07	
FED. R	OAD DIST. NO.	1 ILLINOIS	FED.	AID	PROJECT			