01-30-15 LETTING ITEM 013

FOR INDEX OF SHEETS, SEE SHEET NO. 2

EXISTING ADT = 6,600 (2011)

TRAFFIC DATA

SPEED LIMIT:

25 / 30 MPH (POSTED)

DESIGN DESIGNATION

MAJOR COLLECTOR

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FAU ROUTE 1370 (JEFFERSON STREET) CHURCH ROAD TO COUNTY LINE ROAD **RESURFACING** SECTION 14-00091-00-RS

3rd PM

PROJECT: M-4003(388) VILLAGE OF BENSENVILLE

DUPAGE COUNTY C-91-040-15

END IMPROVEMENT STA 87 + 96.00

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

Chicago O'Hare International Airpor Irving Park Rd R11E LOCATION MAP NOT TO SCALE BEGIN IMPROVEMENT

GROSS LENGTH = 8750.25 FT. = 1.66 MILE

NET LENGTH = 8750.25 FT. = 1.66 MILE

Bollinger, Lach & Associates, Inc. 333 PIERCE ROAD SUITE 200 ITASCA, IL 60143 P:(630) 438 6400 F:(630) 438 6444 www.bollingerlach.co.

STA 0+45.75

ADDISON TOWNSHIP

ILLINOIS REGISTERED PROFESSIONAL ENGINEER NO. 062-051494 MY LICENSE EXPIRES ON 11-30-15.

LOCATION OF SECTION INDICATED THUS: -STATE OF ILLINOIS

COUNTY

DUPAGE

ILLINOIS CONTRACT NO. 61A79

26 1

14-00091-00-RS

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

bugh my Caracci Director of Public Works

November 3, 2019
CHOST CHOISTOPHER HOLT
District One Engineer of Local Roads & Streets

For Donor

CONTRACT NO. 61A79

SCHAUMBURG,

705-

(847)

P.E.

AQUEEL,

ENGINEER: FAWAD

PROGRAM

AID

FEDERAL

0

0

INDEX OF SHEETS

- COVER SHEET
- INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES & COMMITMENTS
- SUMMARY OF QUANTITIES
- TYPICAL SECTIONS
- SCHEDULE OF QUANTITIES
- PROPOSED ROADWAY AND PAVEMENT MARKING PLAN
- 14 VILLAGE DETAILS
- DISTRICT DETAILS

DISTRICT DETAILS

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT BD-22

BD-32 BUTT JOINT AND HMA TAPER DETAILS

TC-10 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

TC-13 DISTRICT ONE TYPICAL PAVEMENT MARKINGS

PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING TC-16

TC-22 ARTERIAL ROAD INFORMATION SIGN

DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS TS-05

DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING TS-07

HIGHWAY STANDARDS

701901-04

780001-05

886001-01

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL EQUIVALENTS OF AN INCH-FOOT
424001-08	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
606001-05	CONCRETE CURB TYPE B COMBINATION CURB AND GUTTER
630001-10	STEEL PLATE BEAM GUARDRAIL
630301-06	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS- DAY ONLY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701801-05	SIDEWALK, CORNER OR CROSSWALK CLOSURE
630301-06 635006-03 635011-02 701301-04 701311-03 701501-06 701006-05	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS REFLECTOR AND TERMINAL MARKER PLACEMENT REFLECTOR MARKER AND MOUNTING DETAILS LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS LANE CLOSURE 2L, 2W MOVING OPERATIONS—DAY ONLY URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT BY

886006-01 TYPICAL LAYOUTS FOR DETECTION LOOPS

TRAFFIC CONTROL DEVICES

TYPICAL PAVEMENT MARKINGS

DETECTOR LOOP INSTALLATION

GENERAL NOTES

- 1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 2012 (HEREIN AFTER REFERRED TO AS THE STANDARD SPECIFICATIONS; THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS ADOPTED JANUARY 2015; THE LATEST EDITION OF THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS: THE STANDARD SPECIFICATIONS FOR WATER & SEWER MAIN CONSTRUCTION IN ILLINOIS, SEVENTH EDITION; THE DETAILS IN THE PLANS; AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.
- 2. ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED AS THE LATEST STANDARD OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.
- 3. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOURS NOTIFICATION IS REQUIRED.
- 4. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH LOCAL EMERGENCY SERVICES AND THE VILLAGE OF BENSENVILLE USING THE FOLLOWING TELEPHONE NUMBERS:

POLICE DEPARTMENT: (630) 350-3455

FIRE PROTECTION DISTRICT #2: (630) 350-3441

EMERGENCY MANAGEMENT AGENCY: (630) 350-3461

- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL UTILITIES PRIOR TO CONSTRUCTION TO DETERMINE THE LOCATION OF ALL EXISTING AND PROPOSED UTILITY EQUIPMENT. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS, IF UTILITY RELOCATION, ADJUSTMENT, OR PROTECTION IS NECESSARY.
- 6. THE LOCATION OF EXISTING DRAINAGE STRUCTURES, STORM SEWERS, WATER MAINS, SANITARY SEWERS, AND ANY OTHER PUBLIC OR PRIVATE UTILITIES AS SHOWN ON THE PLANS IS APPROXIMATE, AND THEIR EXACT LOCATION IS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR.
- 7. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS. PROPERTY CORNERS AND REFERENCE MARKERS UNTIL THE OWNER, OWNER'S REPRESENTATIVE, OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.
- 8. ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES WHICH OBSTRUCTS THE NATURAL FLOW OF WATER SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF IMPROVEMENT. ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT.
- 9. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE OR VILLAGE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT OR THE VILLAGE.
- 10. THE CONTRACTOR SHALL MAINTAIN EXISTING SIDE STREET ACCESS, EXISTING DRIVEWAY ACCESS AND PEDESTRIAN ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING CONSTRUCTION OF THE PROJECT UNLESS OTHERWISE NOTED IN THE PLANS OR AS DIRECTED BY THE ENGINEER.
- 11. NITROGEN FERTILIZER, POTASSIUM FERTILIZER, AND PHOSPHORUS FERTILIZER NUTRIENTS SHALL BE PLACED OVER SODDING AT THE RATE OF 60 POUNDS PER ACRE.
- 12. SAW CUTTING OF CURB AND GUTTER SHALL BE FULL DEPTH AND SHALL RESULT IN A CLEAN STRAIGHT EDGE ON THE PORTION REMAINING. ALL SAW CUTTING SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEM BEING
- 13. THE THICKNESS OF HOT-MIX ASPHALT MIXTURES SHOWN IN THE PLANS IS NOMINAL. DEVIATIONS MAY OCCUR DUE TO IRREGULARITIES IN THE SURFACES OR BASES ON WHICH THE HOT-MIX ASPHALT MIXTURES ARE TO BE PLACED.
- 14. PROTECTIVE COAT SHALL BE APPLIED TO ALL GUTTER FLAGS, FACE AND TOP OF CURB, SIDEWALKS, AND AS DIRECTED BY THE ENGINEER.
- 15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING FRESH CONCRETE FROM DAMAGE AND VANDALISM. ANY DAMAGED OR VANDALIZED CONCRETE SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
- 16. WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MATCHING SHALL NOT EXCEED 1-1/2" WHERE THE SPEED LIMIT IS 45 MPH OR LESS AND 1" WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH, WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3" MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).
- 17. BUTT JOINT WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE DISTRICT DETAIL "BUTT JOINT AND BITUMINOUS TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
- 18. FOR CLASS D PATCHING, CONTRACTOR SHALL MILL BEFORE PATCHING AS DIRECTED BY THE ENGINEER.

DENOTES COST IS INCLUDED IN CONTRACT LINE ITEM

COUNTY

DUPAGE

SHEETS NO.



USER NAME = \$USER\$	DESIGNED	7.	MTC	REVISED -	
	DRAWN	-	MTC	REVISED -	
PLOT SCALE = \$SCALE\$	CHECKED	-	JIP	REVISED -	
PLOT DATE = *DATE*	DATE	-	10-20-2014	REVISED -	

CODE			TOTAL	ROADWAY 0005
NO.	ITEM	UNIT	QUANTITY	S.N.
21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	164	164
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	2	2
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	2	2
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	2	2
25100630	EROSION CONTROL BLANKET	SQ YD	164	164
25200110	SODDING, SALT TOLERANT	SQ YD	164	164
25200200	SUPPLEMENTAL WATERING	UNIT	1	1
28000510	INLET FILTERS	EACH	85	85
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	21745	21745
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	8.2	8.2
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	2229	2229
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	648	648
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	2283	2283
42001300	PROTECTIVE COAT	SQ YD	446	446

^{*} SPECIALTY ITEM

ı		Rollinger Lach	USE
		Bollinger, Lach & Associates, Inc.	
ı		d raboutates, me.	PLO
ı	Bernett Street	ITASCA, ILLINOIS	PLO

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DEPARTMENT	0F	TRANSPORTATION

JEFFERSON STREET								F.A.U. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.		
SUMMARY OF QUANTITIES							1370	14-00091-00-RS	DUPAGE 26		3			
		- 00	21411417	AII I	or do	AIVIII	ILO					CONTRAC	T NO. 6	61A79
SCALE: N.T.S.	SHEET	1	OF	5	SHEETS	STA.	N/A	TO STA	. N/A		ILLINOIS FED.	AID PROJECT		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0005 S.N.
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	48	48
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	60	60
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	741	741
42400800	DETECTABLE WARNINGS	SQ FT	14	14
12100000	DETECTABLE WARMINGS	34.1	1	
44000161	HOT-MIX ASPHALT SURFACE REMOVAL, 3"	SQ YD	26533	26533
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	108	108
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1411	1411
44000600	SIDEWALK REMOVAL	SQ FT	741	741
44201725	CLASS D PATCHES, TYPE I, 7 INCH	SQ YD	272	272
44201729	CLASS D PATCHES, TYPE II, 7 INCH	SQ YD	817	817
44201733	CLASS D PATCHES, TYPE III, 7 INCH	SQ YD	837	837
44201735	CLASS D PATCHES, TYPE IV, 7 INCH	SQ YD	272	272
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	8750	8750
	THE THE STATE STATE OF THE STAT		0.00	0100
60266600	VALVE BOXES TO BE ADJUSTED	EACH	1	1

^{*} SPECIALTY ITEM

B	Bollinger, Lach	USE
D	& Associates, Inc.	PLO
	ITASCA, ILLINOIS	PLO

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DEPARTMENT	OF	TRANSPORTATION

			JEF	FER	SON ST	REET			
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F.A.U. RTE.	SECTION		COUNTY	TOTAL	SHEET NO.
1370	14-00091-00-RS		DUPAGE	26	4
			CONTRAC	T NO. 6	51A79
011 miles	ILLINOIS	FED. AII	PROJECT		

			<u>.</u>	CONSTR. CODE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0005 S.N.
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	507	507
60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	452	452
60608562	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.12	FOOT	452	452
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	250	250
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	6	6
63200310	GUARDRAIL REMOVAL	FOOT	237	237
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	2	2
67100100	MOBILIZATION	L SUM	1	1
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	, 1
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	4	4
70300100	SHORT TERM PAVEMENT MARKING	FOOT	1590	1590
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	72	72
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	3146	3146

^{*} SPECIALTY ITEM

ĺ	100	Bollinger, Lach	USE			
	B	& Associates, Inc.				
150	图 图 图		PLC			
ı	One the local contrat and	ITASCA, ILLINOIS	PLC			

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STATI	E OF	ILLINOIS
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A.U. SECTION				TOTAL	SHEET NO.
14-00091-00-RS	;		DUPAGE	26	5
			CONTRAC	T NO.	61A79
ILLINOIS	FED.	AID	PROJECT		
	14-00091-00-RS	14-00091-00-RS	14-00091-00-RS	14-00091-00-RS DUPAGE	14-00091-00-RS

CODE			TOTAL	ROADWAY 0005
NO.	ITEM	UNIT	QUANTITY	S.N.
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	605	605
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	54	54
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	110	110
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	2227	2227
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	72	72
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	3146	3146
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	605	605
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	54	54
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	110	110
78200410	GUARDRAIL MARKERS, TYPE A	EACH	65	65
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	6	6
38600600	DETECTOR LOOP REPLACEMENT	FOOT	439	439
K6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	62	62
(6040205	FRAMES AND LIDS, SPECIAL	EACH	25	25

^{*} SPECIALTY ITEM

\mathbb{B}	Bollinger, Lach	US
D B	& Associates, Inc.	PL
	ITASCA, ILLINOIS	PL

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				JEF	FER	SON ST	REET	
SUMMARY OF QUANTITIES								
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	ILLINOIS FED.	AID PROJECT		E0 (6)
		CONTRACT	T NO. 6	51A79
1370	14-00091-00-RS	DUPAGE	26	6
F.A.U. RTE. 1370	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0005 S.N.
.,,,,,	1.50	3.,		31.11
Z0004522	2 HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 6"	SQ YD	18	18
Z0004530	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 8"	SQ YD	6	6
Z0004544	HOT-MIX ASPHALT DRIVEWAY PAVEMENT REMOVAL	SQ YD	24	24
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	85	85
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	52	52
27 ty A 2222 2 2 2				
				770 - VANV

* SPECIALTY ITEM

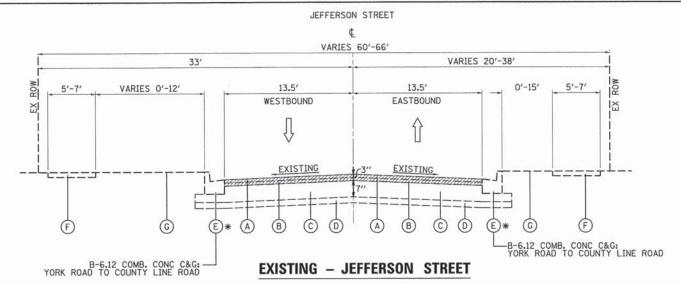
A 100% VILLAGE OF BENSENVILLE COST

B	Bollinger, Lach	USE
	& Associates, Inc.	PLO
	ITASCA, ILLINOIS	PLO

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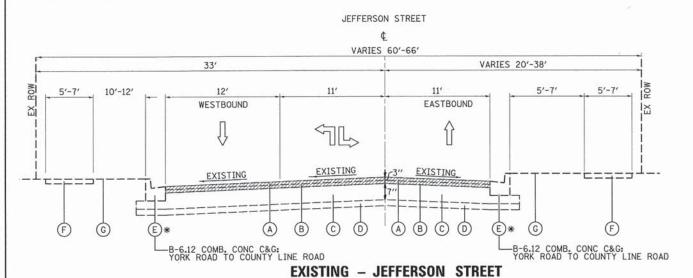
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CHURCH ROAD TO CENTER STREET MAY STREET TO COUNTY LINE ROAD STA. 0+45.75 TO STA. 32+39.58 STA. 39+84.15 TO STA. 87+96.00

HMA SURFACE REMOVAL 3"

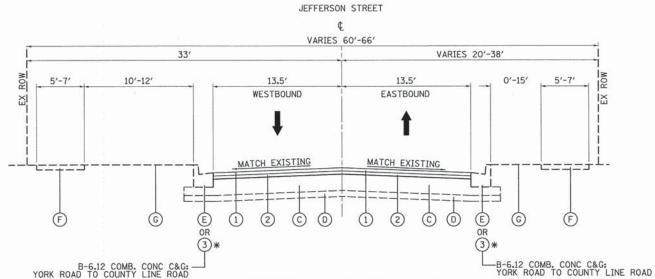


CENTER STREET TO MAY STREET STA. 32+39.58 TO STA. 39+84.15

- 1. THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE AND BINDER MIXTURES IS 112 LBS/SQ YD/IN
- 2. 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 THE USE OF RECYCLED MATERIALS SEE DISTRICT ONE SPECIAL PROVISIONS.

HMA MIXTURE REQUIREMENTS CHART

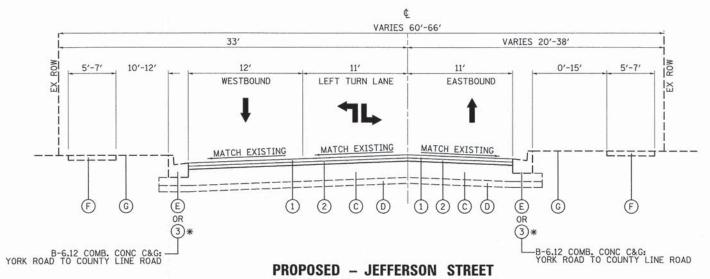
MIXTURE TYPE	AIR	VO:	IDS	@ N DES	THICKNESS
ROADWAY PAVEMENT: HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5mm) LEVELING BINDER (MACHINE METHOD), N50 (IL-9.5mm)				GYR. GYR.	1.5" 1.5"
PAVEMENT PATCHING: CLASS D PATCHES (HMA BINDER IL-19mm)	4%	· @	70	GYR.	7" (3 LIFTS)



PROPOSED - JEFFERSON STREET

CHURCH ROAD TO CENTER STREET MAY STREET TO COUNTY LINE ROAD STA. 0+45.75 TO STA. 32+39.58 STA. 39+84.15 TO STA. 87+96.00

JEFFERSON STREET



CENTER STREET TO MAY STREET STA. 32+39.58 TO STA. 39+84.15

EXISTING

- (A) EXISTING HOT-MIX-ASPHALT SURFACE COURSE, 1 1/2" (R)
- B EXISTING HOT-MIX ASPHALT BINDER COURSE, 1 1/2" (R)
- C EXISTING HOT-MIX ASPHALT BASE COURSE, 7"
- (D) EXISTING SUB BASE GRANULAR MATERIAL, 4"
- *(E) EXISTING COMB. CONC. CURB AND GUTTER B-6.18 / B-6.12 / M-4.12
- (F) EXISTING CONC. SIDEWALK
- (G) EXISTING LANDSCAPE

- PROPOSED
- (1) PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", 1 1/2"
- 2) PROPOSED LEVELING BINDER (MACHINE METHOD), N50, 1 1/2"
- *(3) PROPOSED COMB. CONC. CURB AND GUTTER, TYPE B-6.18 / B-6.12 / M-4.12

* COMBINATION CONCRETE CURB AND GUTTER SHALL BE REMOVED AND REPLACED IN KIND AT THE LOCATIONS SHOWN ON THE PLANS AS DIRECTED BY THE ENGINEER.

COMBINATION CONCRETE CURB AND GUTTER USED IN RESIDENTIAL NEIGHBORHOODS SHALL BE OF TYPE M-4.12.



USER NAME = \$USER\$	DESIGNED	+	MTC	REVISED -	
77	DRAWN	-	MTC	REVISED -	
PLOT SCALE = #SCALE#	CHECKED	-	JIP	REVISED -	
PLOT DATE = \$DATE\$	DATE	-	10-20-2014	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

		JEF	FER	SON ST	REET				F.A.U. RTE.	SECTION
		TY	PICA	AL SECT	IONS				1370	14-00091-00-RS
SCALE: N.T.S.	SHEET 1	OF	1	SHEETS	STA.	N/A	TO STA.	N/A		TI I THOTE

LOCATION STATION-STATION	LEVELING BINDER COURSE (MACHINE METHOD), N50 1.5" (TON)	BITUMINOUS MATERIALS (PRIME COAT) (POUND)	HOT MIX ASPHALT SURFACE COURSE, MIX "D", N50 1.5" (TON)
JEFFERSON STREET			
0+45.75 - 13+00 RT	158	1510	159
0+45.75 - 13+00 LT	158	1547	163
13+00 - 26+00 RT	163	1584	167
13+00 - 26+00 LT	163	1648	173
26+00 - 39+00 RT	178	1739	182
26+00 - 39+00 LT	178	1776	187
39+00 - 52+00 RT	164	1611	168
39+00 - 52+00 LT	164	1643	172
52+00 - 65+00 RT	163	1579	166
52+00 - 65+00 LT	163	1616	168
65+00 - 78+00 RT	164	1557	164
65+00 - 78+00 LT	164	1557	164
78+00 - 87+96.00 RT	124	1189	125
78+00 - 87+96.00 LT	125	1189	125
TOTAL	2229	21745	2283

	THERMOPLASTIC PAVEMENT MARKING								
LOCATION STATION-STATION	4" (FT)	6" (FT)	12" (FT)	24" (FT)	LETTERS & SYMBOLS (SO FT)				
JEFFERSON STREET									
0+45.75 - 13+00 RT	193								
0+45.75 - 13+00 LT	192			14					
13+00 - 26+00 RT	152			13					
13+00 - 26+00 LT	152			13					
26+00 - 39+00 RT	790	156		21	36				
26+00 - 39+00 LT	402	254		22	36				
39+00 - 52+00 RT	234	55							
39+00 - 52+00 LT	133	85							
52+00 - 65+00 RT	163	27		13					
52+00 - 65+00 LT	163	28		14					
65+00 - 78+00 RT	161		27						
65+00 - 78+00 LT	161		27						
78+00 - 87+96.00 RT	125								
78+00 - 87+96.00 LT	125								
TOTAL	3146	605	54	110	72				

	TEMPORARY PAVEMENT MARKING									
LOCATION STATION-STATION	4" (FT)	6" (FT)	12" (FT)	24" (FT)	LETTERS & SYMBOLS (SO FT)					
JEFFERSON STREET										
0+45.75 - 13+00 RT	193									
0+45.75 - 13+00 LT	192			14						
13+00 - 26+00 RT	152			13						
13+00 - 26+00 LT	152			13						
26+00 - 39+00 RT	790	156		21	36					
26+00 - 39+00 LT	402	254		22	36					
39+00 - 52+00 RT	234	55								
39+00 - 52+00 LT	133	85								
52+00 - 65+00 RT	163	27		13						
52+00 - 65+00 LT	163	28		14						
65+00 - 78+00 RT	161		27							
65+00 - 78+00 LT	161		27							
78+00 - 87+96.00 RT	125									
78+00 - 87+96, 00 LT	125									
TOTAL	3146	605	54	110	72					

LOCATION STATION-STATION	HMA SURFACE REMOVAL, 3" (SQ YD)	HMA SURFACE REMOVAL - BUTT JOINT (SQ YD)
JEFFERSON STREET		Maria de la compansión de
0+45.75 - 13+00 RT	1872	7
0+45.75 - 13+00 LT	1872	65
13+00 - 26+00 RT	1943	27
13+00 - 26+00 LT	1943	116
26+00 - 39+00 RT	2124	47
26+00 - 39+00 LT	2125	103
39+00 - 52+00 RT	1953	52
39+00 - 52+00 LT	1953	100
52+00 - 65+00 RT	1946	26
52+00 - 65+00 LT	1946	64
65+00 - 78+00 RT	1947	
65+00 - 78+00 LT	1947	
78+00 - 87+96.00 RT	1481	34
78+00 - 87+96.00 LT	1481	7
TOTAL	26533	648

FRAMES AND LIDS TO BE ADJUST	
STATION	QUANTITY
JEFFERSON STREET	
0+00 - 13+00 RT	3
0+00 - 13+00 LT	3
13+00 - 26+00 RT	8
13+00 - 26+00 LT	2
26+00 - 39+00 RT	5
26+00 - 39+00 LT	3
39+00 - 52+00 RT	6
39+00 - 52+00 LT	8
52+00 - 65+00 RT	5
52+00 - 65+00 LT	7
65+00 - 78+00 RT	2
65+00 - 78+00 LT	4
78+00 - 87+96.00 RT	3
78+00 - 87+96.00 LT	3
TOTAL	62

LOCATION STATION-STATION	DRAINAGE STRUCTURES TO BE CLEANED	INLET FILTERS
JEFFERSON STREET		
0+45.75 - 13+00 RT	7	7
0+45.75 - 13+00 LT	8	8
13+00 - 26+00 RT	7	7
13+00 - 26+00 LT	7	7
26+00 - 39+00 RT	8	8
26+00 - 39+00 LT	5	5
39+00 - 52+00 RT	6	6
39+00 - 52+00 LT	6	6
52+00 - 65+00 RT	4	4
52+00 - 65+00 LT	4	4
65+00 - 78+00 RT	6	6
65+00 - 78+00 LT	4	4
78+00 - 87+96.00 RT	5	5
78+00 - 87+96.00 LT	8	8
TOTAL	85	85

	RAMES AND LIDS	
STATION	OFFSET	TYPE
JEFFERSON STREE		
0+11	35' LT	VALVE VAULT
0+18	22' LT	VALVE VAULT
0+25	15' LT	VALVE VAULT
2+95	3' RT	SANITARY MANHOLE
5+51	22' LT	VALVE VAULT
5+75	4' RT	SANITARY MANHOLE
11+84	7' LT	VALVE VAULT
13+67	7' LT	VALVE VAULT
16+83	7' RT	VALVE VAULT
17+02	8' RT	SANITARY MANHOLE
18+44	11' RT	STORM MANHOLE
19+99	14' RT	CATCH BASIN
24+11	17' LT	VALVE VAULT
24+57	7' RT	SANITARY MANHOLE
28+37	11' RT	SANITARY MANHOLE
32+49	11' RT	SANITARY MANHOLE
35+76	17' LT	VALVE VAULT
35+92	12' LT	VALVE VAULT
46+34	14' RT	CATCH BASIN
49+33	10' LT	VALVE VAULT
52+63	13' RT	CATCH BASIN
53+13	13' LT	CATCH BASIN
53+14	14' RT	CATCH BASIN
54+92	13' LT	CATCH BASIN
63+00	5' LT	VALVE VAULT
	TOTAL	25

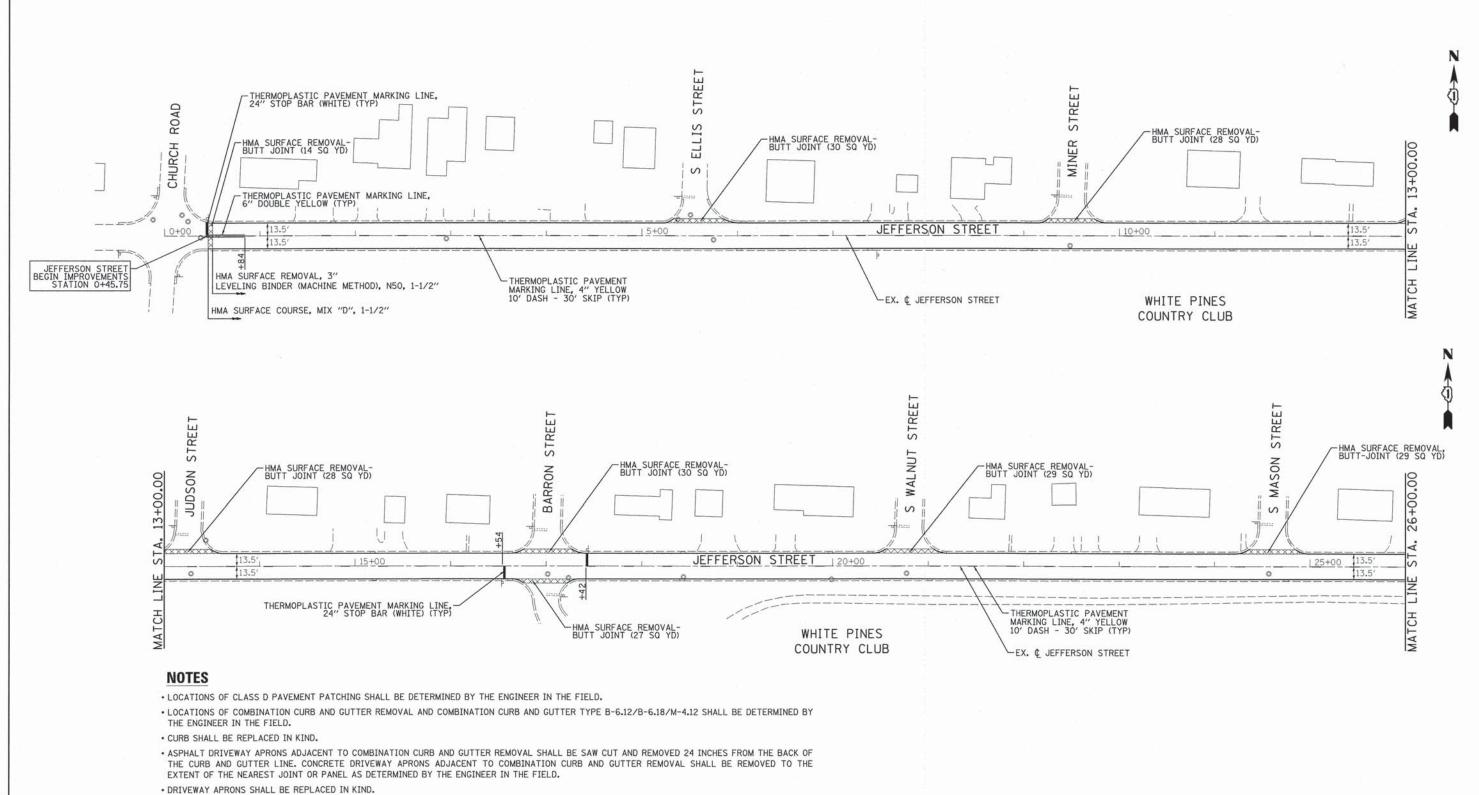
	PLASTIC PA - 24 INCH	
STATION	OFFSET	LENGTH (FOOT)
JEFFERSON	STREET	
0+45	LT	14
16+57	RT	13
17+43	LT	13
35+88	RT	21
36+92	LT	22
58+21	RT	13
58+86	LT	14
	TOTAL	110

(FOR LOCATION PURPOSES ONLY)

B	Bollinger, Lach & Associates, Inc.
	ITASCA, ILLINOIS

USER NAME = \$USER\$	DESIGNED -	MTC	REVISED -
	DRAWN -	MTC	REVISED -
PLOT SCALE = #SCALE#	CHECKED -	JIP	REVISED -
PLOT DATE = *DATE*	DATE -	10-20-2014	REVISED -

JEFFERSON STREET							F.A.U. RTE.	SECTION	COUNTY	TOTAL	SHEE'			
SCHEDULE OF QUANTITIES								1370	14-00091-00-RS	DUPAGE	26	9		
SCHEDOLE OF GOANTHIES												CONTRAC	T NO. 6	51A79
CALE: N.T.S.	SHEET	1	OF	1	SHEETS	STA.	N/A	TO STA.	N/A		ILLINOIS FED.	The second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a section in the second section in the section is a section in the section in the section is a section in the section in the section is a section in the section in the section is a section in the section in the section is a section in the section in the section is a section in the section in the section in the section is a section in the section in the section in the section is a section in the section is a section in the sect		-



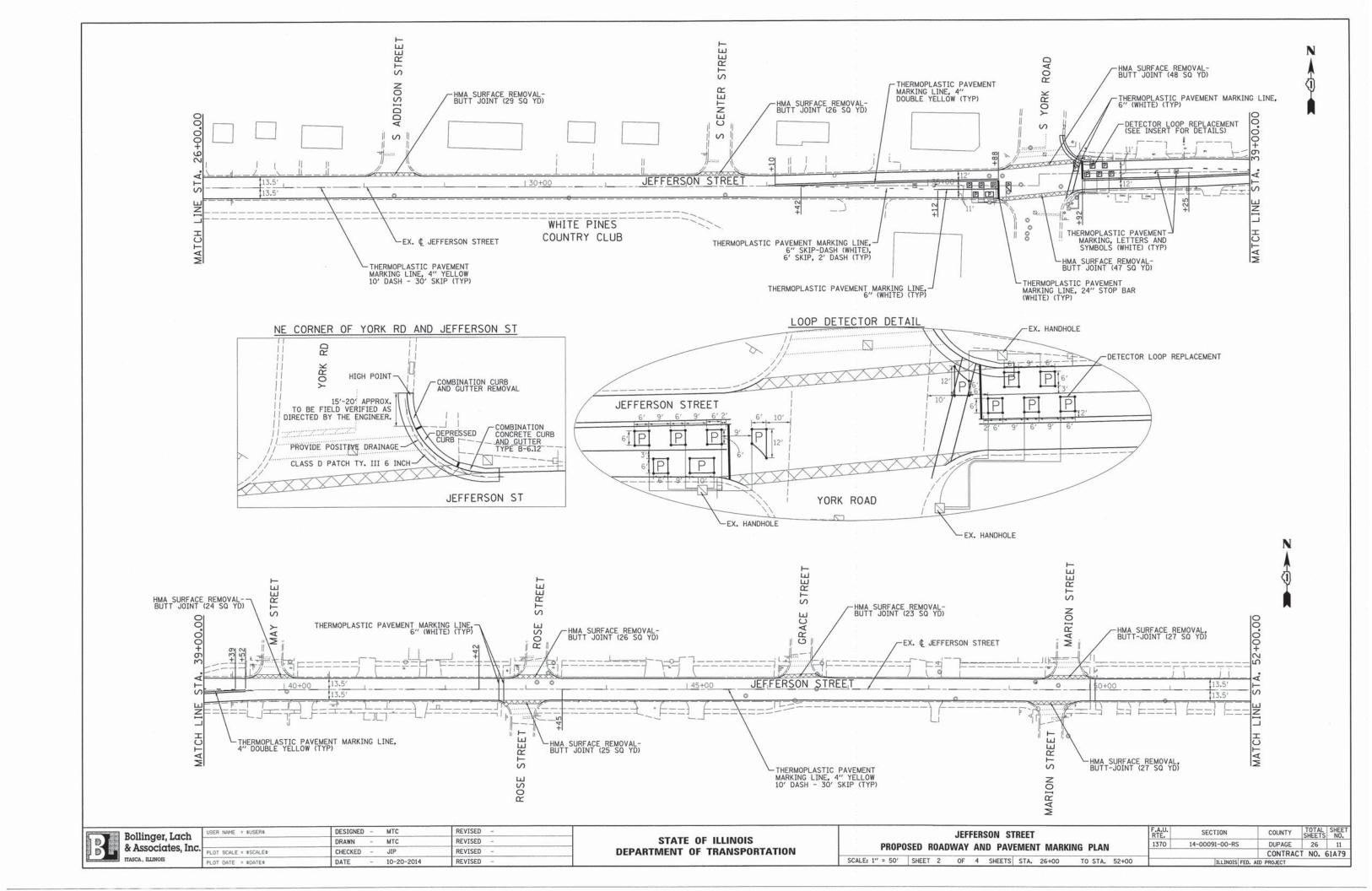
- ALL FRAMES AND LIDS WITHIN THE PAVEMENT SHALL BE ADJUSTED TO FINISH GRADE PER THE DISTRCT DETAIL BD-8 DETAILS FOR FRAME AND LIDS ADJUSTMENT WITH MILLING AND SHALL BE PAID AT THE CONTRACT UNIT PRICE PER EACH FOR FRAMES AND LIDS TO BE ADJUSTED (SPECIAL). ALL 25 FRAMES AND LIDS WHICH ARE NOT STAMPED WITH "VILLAGE OF BENSENVILLE" SHALL BE REPLACED WITH STAMPED LIDS PER THE VILLAGE DETAILS "STORM FRAME AND LID STANDARD (OPEN)", "STORM FRAME AND LID STANDARD (CLOSED)", "SANITARY FRAME AND LID STANDARD", AND "FRAME AND CLOSED LID WATER STANDARD". ALL REMOVED FRAMES AND LIDS SHALL BE SALVAGED AND DELIVERED TO THE VILLAGE OF BENSENVILLE DEPARTMENT OF PUBLIC WORKS LOCATED AT 717 EAST JEFFERSON STREET, BENSENVILLE, ILLINOIS 60106.
- REMOVAL OF TRAFFIC BARRIER TERMINALS SHALL BE PAID FOR AS 'GUARDRAIL REMOVAL'.
- . INLET FILTERS SHALL BE PLACED IN ALL OPEN FRAME STRUCTURES WITHIN THE PAVEMENT AND CURB.
- GUARDRAIL REFLECTORS SHALL BE INSTALLED ON ALL PROPOSED GUARDRAIL.

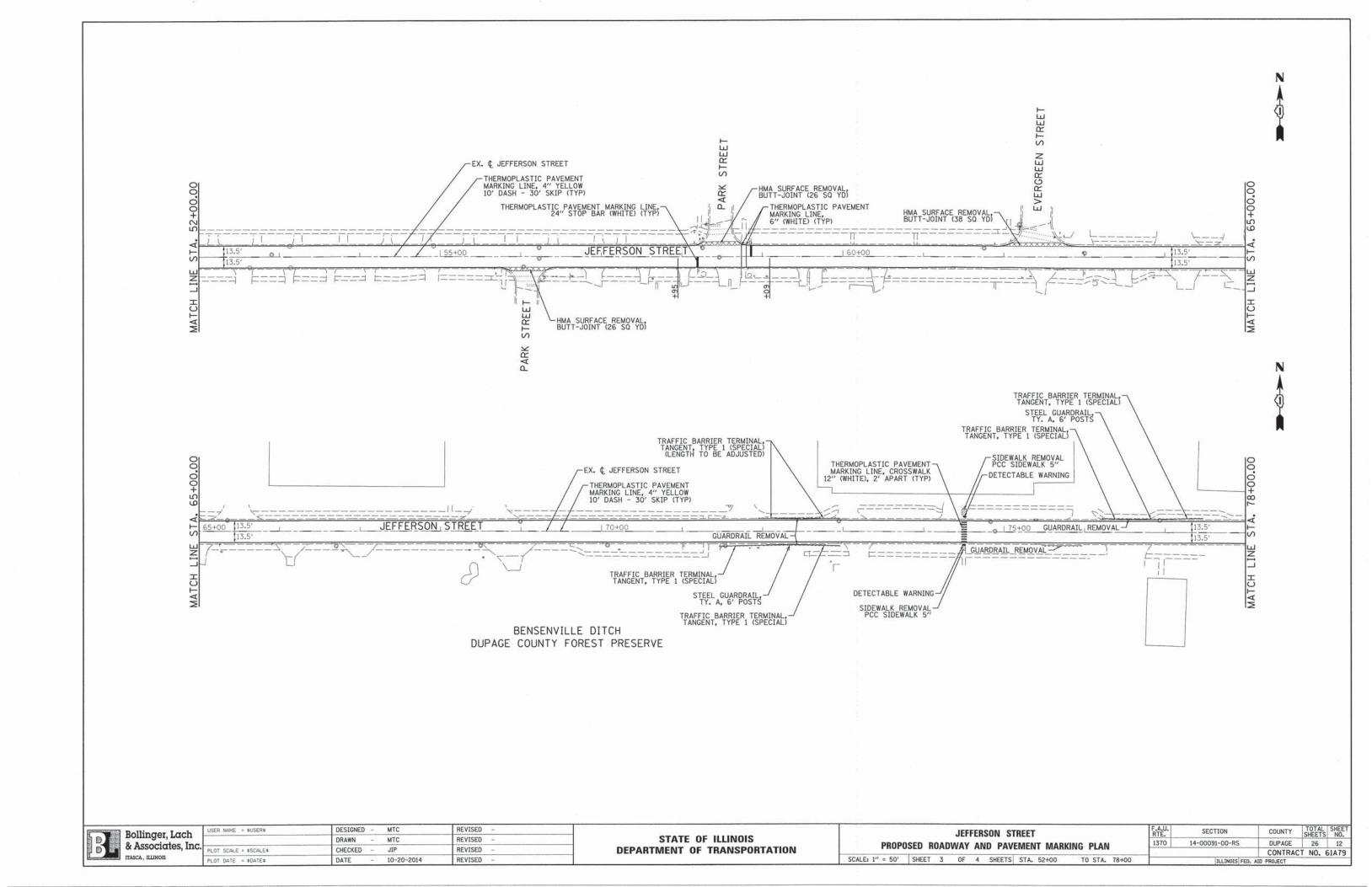
	Bollinger, Lach	USI		
	& Associates, Inc.			
	ITASCA, ILLINOIS	PLI		

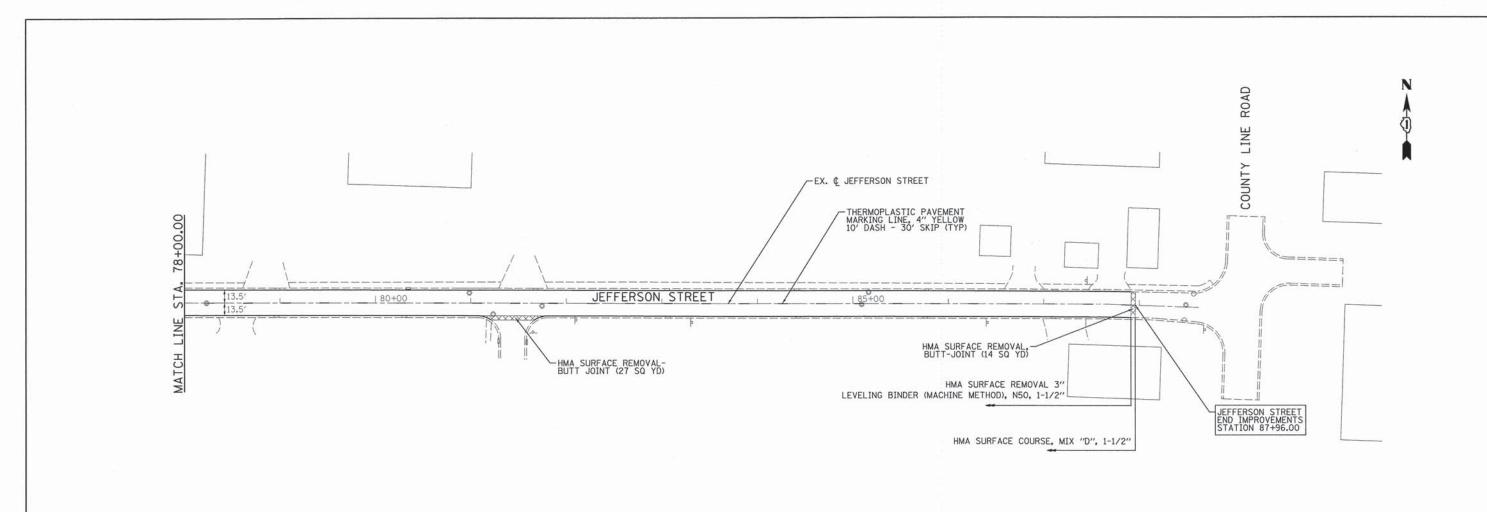
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-	PLOT SCALE = \$SCALE\$	CHECKED - JIP	REVISED -	
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JEFFERSON STREET														
		P	ROP	OSED	R	DAD	WAY	AN	ID I	PAVE	MENT	MARKIN	IG PLAN	
	SCALE: 1"	=	50'	SHEE	т	1	OF	4	SHE	ETS	STA.	0+45.75	TO STA.	26+00

	ILLINOIS FED.	AID PROJECT		
	The state of the s	CONTRAC	T NO. 6	51A79
1370	14-00091-00-RS	DUPAGE	26	10
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.







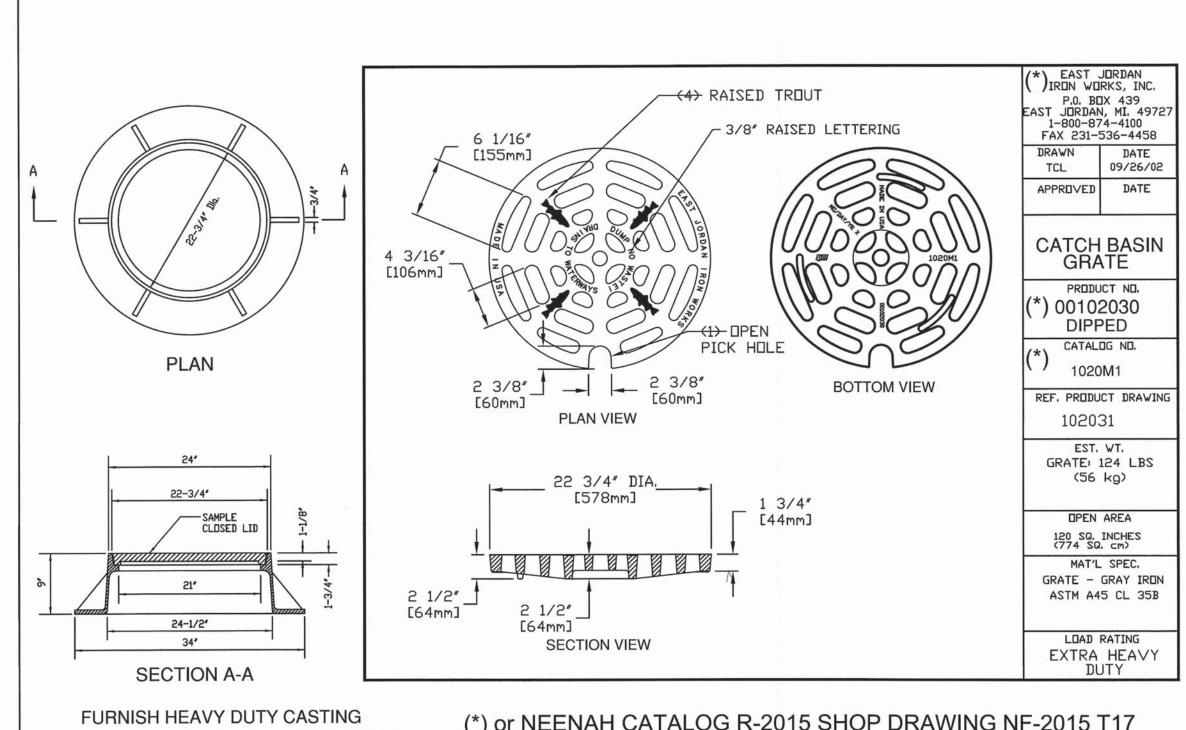
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	& Associates, Inc.	P
-	ITASCA, ILLINOIS	P

USER NAME = #USER#	DESIGNED - MTC	REVISED -	
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STATE	OF	ILLINOIS
DEPARTMENT 0	F T	TRANSPORTATION

					JEF	ERSO	ON ST	REET	303117211		
	F	ROPO	SED	ROA	DWAY	AND	PAV	EMENT	MARKING	PLAN	
SCALE: 1	" :	= 50'	SHEET	4	OF	4 5	SHEETS	STA.	78+00 T	O STA. 8	7+96.00

F.A.U. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
1370	14-00091-00-RS		DUPAGE	26	13
500			CONTRACT	NO. 6	51A79
	ILLINOIS	FED. AI	D PROJECT		



AS REQUIRED BY THE VILLAGE ENGINEER

(*) or NEENAH CATALOG R-2015 SHOP DRAWING NF-2015 T17 **OPEN LID**

SCALE:



VILLAGE OF BENSENVILLE 12 S. CENTER STREET BENSENVILLE, IL 60106 WWW.BENSENVILLE.IL.US

STORM FRAME AND LID STANDARD (OPEN)

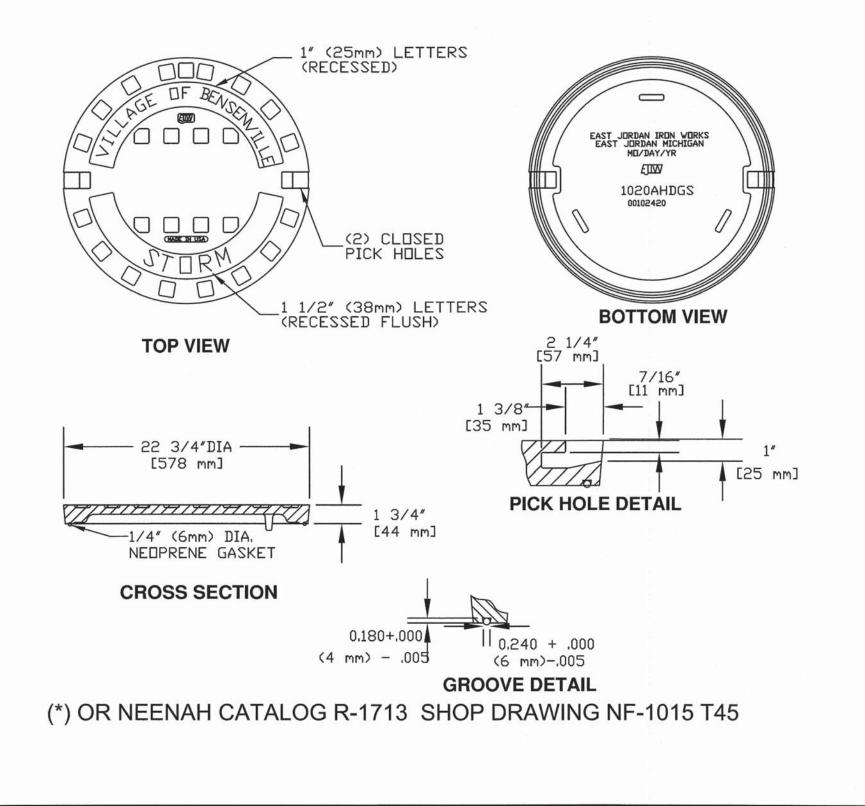
VILLAGE OF BENSENVILLE	REVISIONS
SPECIFICATIONS AND DETAILS	
FILE LOCATION	
G:\ENGINEERING\STANDARDS\ NEW STANDARDS\STORM	



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			JEF	FERS	ON S	TREET					
	STORM	FRA	ME	AND	LID	STANI	DARD	(OPEN)			-
N.T.S.	SHEET	1	OF	4	SHEETS	STA.	N/A	TO	STA.	N/A	

A.U. TE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
370	14-00091-00-RS	DUPAGE	26	14
		CONTRAC	T NO.	61A79
	ILLINOIS FED. A	ID PROJECT		



VILLAGE OF BENSENVILLE
12 S. CENTER STREET
BENSENVILLE, IL 60106
WWW.BENSENVILLE.IL.US

STORM FRAME AND LID STANDARD (CLOSED)

VILLAGE OF BENSENVILLE	REVISIONS
SPECIFICATIONS AND DETAILS	
FILE LOCATION	
G:\ENGINEERING\STANDARDS\ NEW STANDARDS\STORM	

(*) EAST JORDAN

IRON WORKS, INC.
P.O. BOX 439
EAST JORDAN, MI. 49727

DATE

DATE

11/11/02

1-800-874-4100 FAX 231-536-4458

SPECIAL LETTERED

COVER

PRODUCT NO.

00102421

CATALOG NO.

REF. PRODUCT DRAWING

102067

EST. WT.

OPEN AREA

N/A

MAT'L SPEC.

COVER - GRAY IRON ASTM A48 CL 35

LOAD RATING

HEAVY DUTY

COVER WT: 115 LBS.

(52 kg)

1020A

DRAWN

SMH

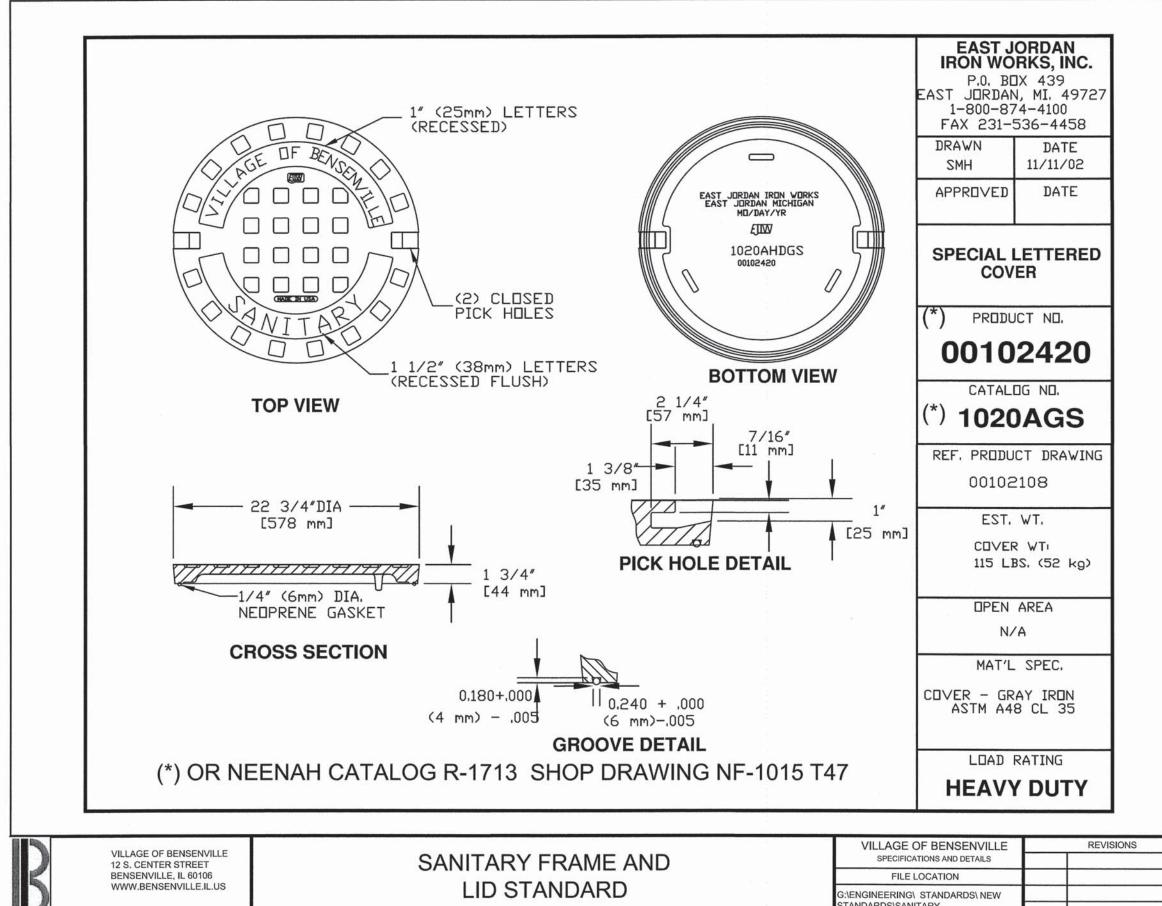
APPROVED



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	DRAWN -	MTC	REVISED -
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PLOT DATE = \$DATE\$	DATE -	10-20-2014	REVISED -

			JEF	FERS	SON	ST	REET				
	STORM	FRA	ME /	AND	LID	ST	AND	ARD	(CLOSED)	
SCALE: N.T.S.	SHEET	2	OF	4	SHEE	TS	STA.	N/A	TO	STA.	N/A

.A.U.	SECTION	COUNTY	TOTAL	SHEET NO.
370	14-00091-00-RS	DUPAGE	26	15
		CONTRACT	NO. 6	51A79
	ILLINOIS FED. AI	ID PROJECT		





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	DRAWN - MTC	REVISED -
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

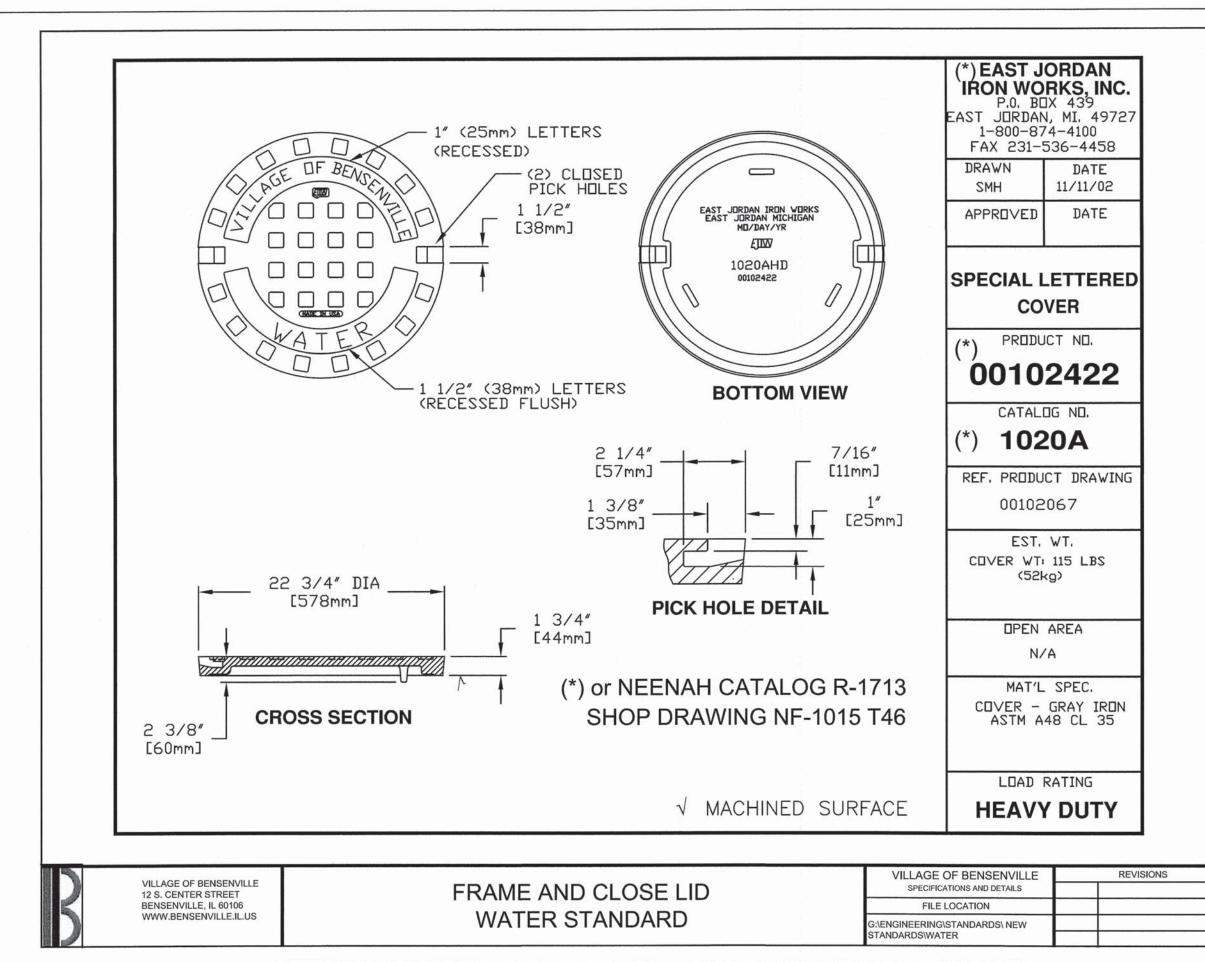
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STANDARDSISANITARY		
JEFFERSON STREET	F.A.U. RTE.	SE
SANITARY FRAME AND LID STANDARD	1370	14-000

TO STA. N/A

SHEET 3 OF 4 SHEETS STA. N/A

A.U. TE.	SECTION	COUNTY	TOTAL	SHEET NO.
370	14-00091-00-RS	DUPAGE	26	16
		CONTRAC	T NO. 6	51A79
	ILLINOIS FED. /	AID PROJECT		

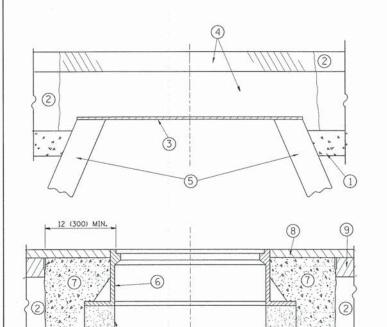


Bollinger, Lach & Associates, Inc.

USER NAME = \$USER\$	DESIGNED - MTC	REVISED -	
	DRAWN - MTC	REVISED -	
PLOT SCALE = #SCALE#	CHECKED - JIP	REVISED -	
PLOT DATE = *DATE*	DATE - 10-20-20	14 REVISED -	

	JEFFERSON STREET								
	FRAME	AND	CLOSE	LID V	VATER	STANDARD			
SCALE: N.T.S.	SHEET	4	OF 4	SHEETS	STA.	N/A T	O STA.	N/A	

F.A.U. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
1370	14-00091-00-RS	DUPAGE	26	17
		CONTRAC	T NO. 6	51A79
	ILLINOIS FED. /	AID PROJECT		



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.

PROPOSED

BRICK, MORTAR, OR CONC. ADJUSTING RINGS

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

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

(5) EXISTING STRUCTURE

- 8 PROPOSED HMA SURFACE COURSE
- PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- (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.

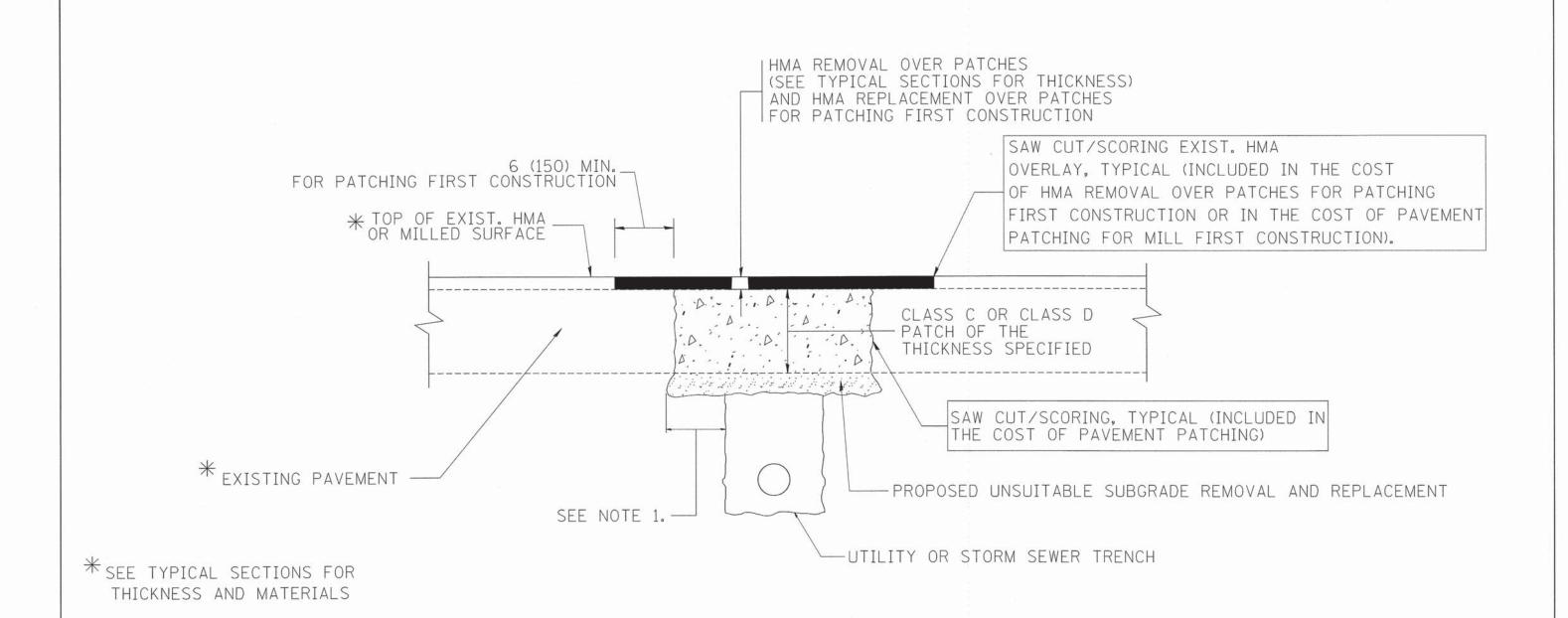
DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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	PLOT SCALE = 1968.5000 '/ m	CHECKED -	REVISED	-	R.	BORO 03-09-11
	PLOT DATE = 12/6/2011	DATE - 10-25-94	REVISED	-	R.	BORO 12-06-11

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	DETAILS FOR									
	FRAMES AND	LIDS	ADJUSTN	MENT WITH	MILLING					
SCALE: 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)

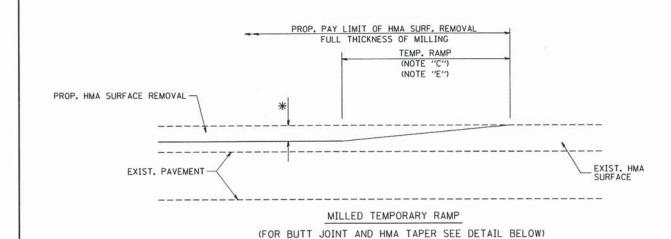
- 1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
- 2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
- 3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

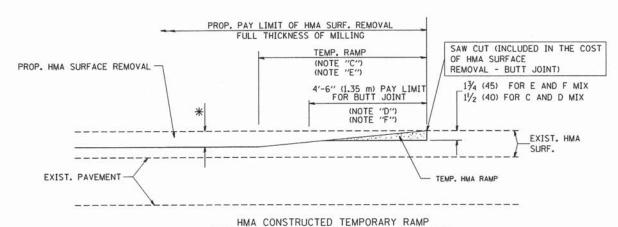
- 1. MILL HMA FIRST IF THERE IS AT LEAST $4\frac{1}{2}$ INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
- 2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

FILE NAME =			PAVEMENT PATCHING FOR	RTE SECTION	COUNTY SHEETS NO		
c:\projects\diststd22x34\bd22.dgn		DRAWN -	REVISED - R. BORO 01-01-07			1370 14-00091-00-RS	DUPAGE 26 19
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - R. BORO 09-04-07	DEPARTMENT OF TRANSPORTATION	HMA SURFACED PAVEMENT	BD400-04 (BD-22)	CONTRACT NO. 61A79
	PLOT DATE = 10/27/2008	DATE - 10-25-94	REVISED - K. ENG 10-27-08	¥	SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. A	



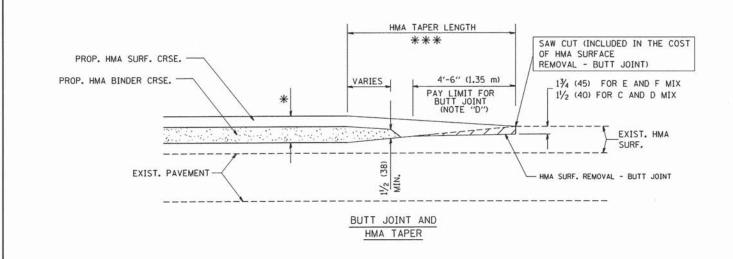
OPTION 1



(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

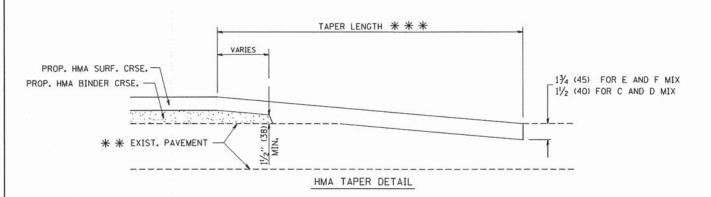
OPTION 2

TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

PROP. HMA OR PCC SURFACE REMOVAL - BUTT JOINT 30'-0" (9.0 m) (NOTE "A") 15'-0" (4.5 m) (NOTE "B") (NOTE "D") ** * EXIST. PAVEMENT BUTT JOINT DETAIL



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".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

BASIS OF PAYMENT:

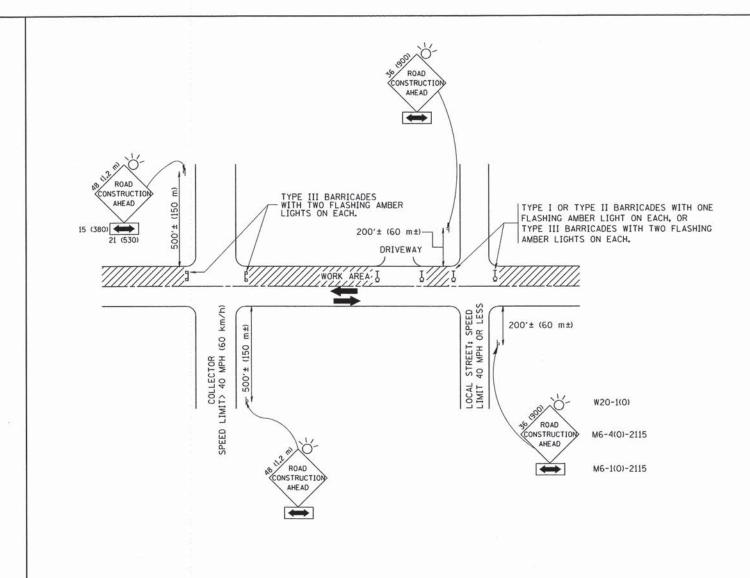
THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SOUARE YARD (SQUARE METER)
FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".

SCALE:

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

FILE NAME =	USER NAME = geglienobt	DESIGNED - M. DE YONG	REVISED - R, SHAH 10-25-94
W:\diststd\22x34\bd32.dgn		DRAWN -	REVISED - A. ABBAS 03-21-97
	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

BUTT JOINT AND				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
	HMA TAPER DETAILS					1370	14-00091-00-RS	DUPAGE	26	20
HIMA TAPER DETAILS					BD400-05 BD32	CONTRACT	NO. 6	61A79		
NONE	SHEET NO. 1	OF 1	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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:
- 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 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:
- o) ONE ROAD CONSTRUCTION AHEAD SIGN 48×48 (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.

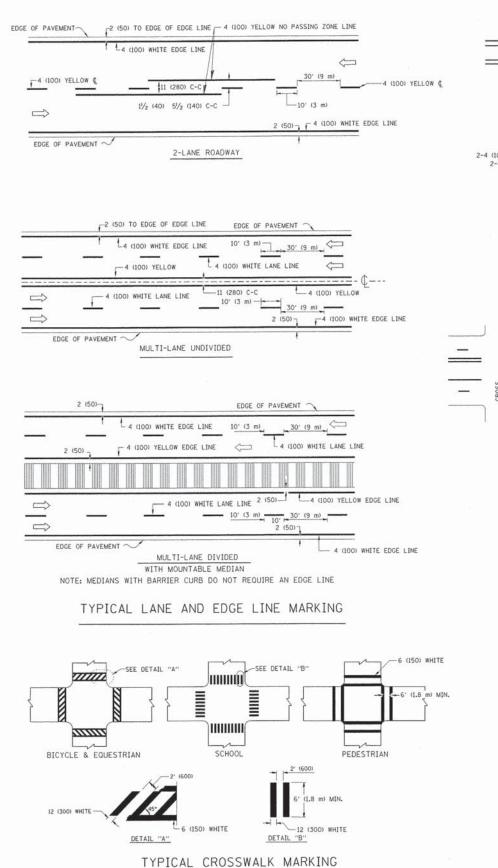
All dimensions are in millimeters (inches) unless otherwise shown.

FILE NAME =	USER NAME = gaglianobt	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
W:\diststd\22x34\to10.dgn		DRAWN -	REVISED - A. HOUSEH 03-06-96
	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

STATE	01	FILLINOIS
DEPARTMENT	OF	TRANSPORTATION

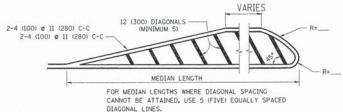
TR	AFFIC	CON	TROL A	AND PR	OTECTION	FOR
SIDE	ROAL	S, IN	TERSEC	TIONS,	AND DRIV	EWAYS
SHEET	NO. 1	OF	1 SH	EETS	STA.	TO S

ī	F.A.U. RTE.	SEC	COUNTY	TOTAL	SHEET NO.	
	1370	14-000	91-00-RS	DUPAGE	26	21
		TC-1	0	CONTRACT	NO. 6	1A79
	FED. ROAD	DIST. NO. 1	ILLINOIS FED.	AID PROJECT		



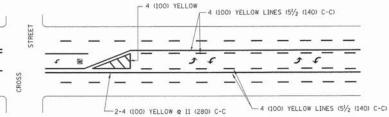
2-4 (100) YELLOW @ 11 (280) C-C-4' (1.2 m) OUTSIDE TO NO DIAGONALS OUTSIDE OF LINES - 2-4 (100) YELLOW @ 11 (280) C-C

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

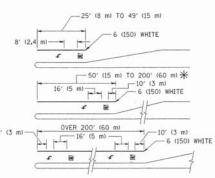


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

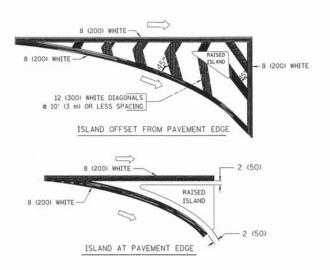
TYPICAL PAINTED MEDIAN MARKING



FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. \P AREA = 15.6 SO. FT. (1.5 m²) ONLY 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 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	5½ (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	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; 5½ (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	WHITE WHITE WHITE	NOT LESS THAN 6' (I.8 m) APART 2' (500) 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. OTHERNISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE 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 (0VER 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 SO. FT. (0.33 m²) EACH "X"=54.0 SO. 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) 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.

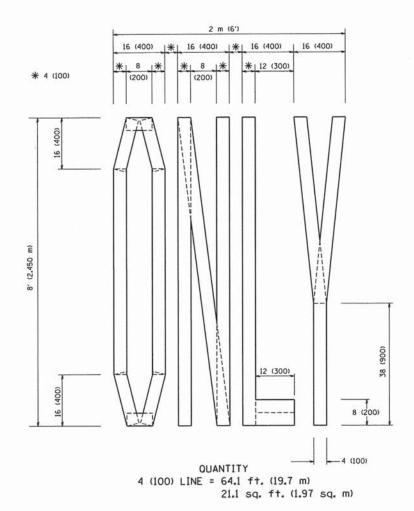
All dimensions are in inches (millimeters) unless otherwise shown.

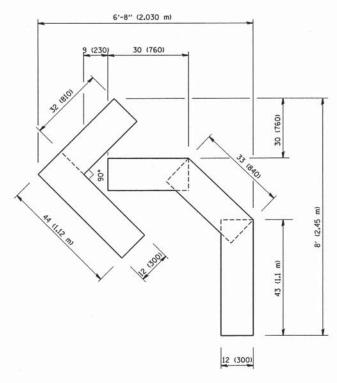
TYPICAL	TURN	LANE	MARKIN	(

FILE NAME =	USER NAME = drivakosgn	DESIGNED - EVERS	REVISED -T. RAMMACHER 10-27-94
o:\pw_work\pwidot\drivakosgn\d0108315\to	3.dgn	DRAWN -	REVISED -C. JUCIUS 09-09-09
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 9/9/2009	DATE - 03-19-90	REVISED -

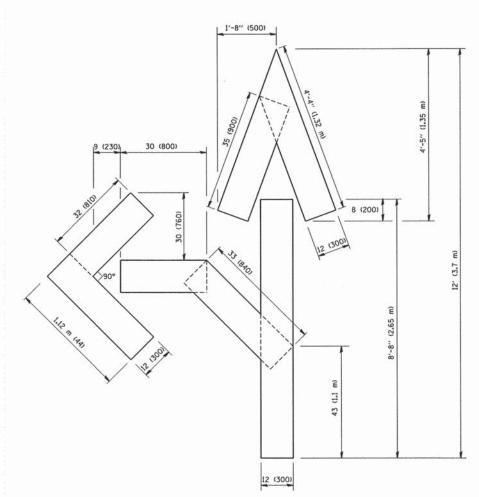
STATI	E 01	FILLINOIS
DEPARTMENT	OF	TRANSPORTATION

	DISTI	RICT ONE		F.A.U. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
	TYPICAL DAVE	EMENT MARKINGS		1370	14-00091-00-RS	DUPAGE	26	22
	TIPICAL PAVE	INICINI INIANKINGS			TC-13	CONTRACT	NO. 6	61A79
SCALE: NONE	SHEET NO. 1 OF 1 SI	HEETS STA.	TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED.	AID PROJECT		





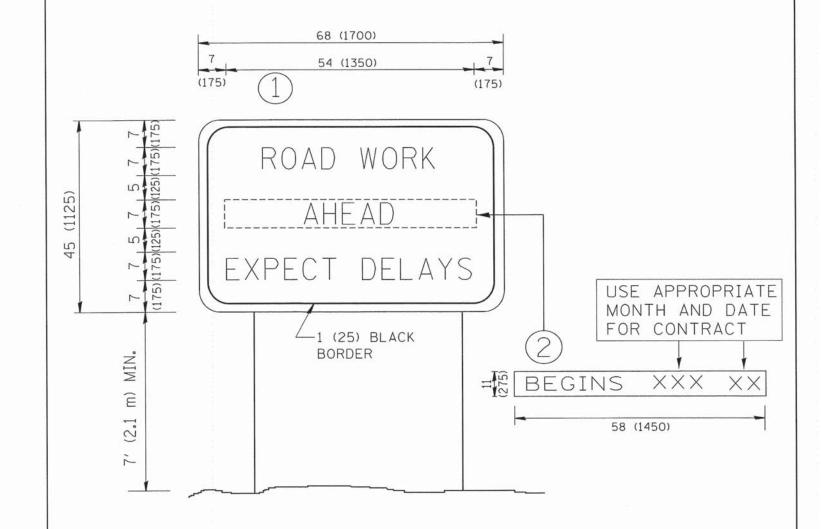
OUANTITY 4 (100) LINE = 45.5 ft. (13.9 m) 15.2 sq. ft. (1.39 sq. m)



OUANTITY 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			PAVEMENT MARKING LETTERS	S AND SYMBOLS	F.A.U.	SECTION	COUNTY	TOTAL S	HEET
W:\diststd\22x34\tc16.dgn		DRAWN -	REVISED -T. RAMMACHER 11-04-97	STATE OF ILLINOIS				1370	14-00091-00-RS	DUPAGE	26	23
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -T. RAMMACHER 03-02-98	DEPARTMENT OF TRANSPORTATION		FOR TRAFFIC STA	IGING		TC-16	CONTRACT	T NO. 61/	479
1	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. RO	AD DIST. 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.

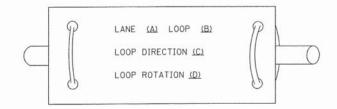
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = geglienobt	DESIGNED -	REVISED - R. MIRS 09-15-97			ARTERIAL ROAD	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
W:\diststd\22x34\tc22.dgn		DRAWN -	REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS		INFORMATION SIGN	1370	14-00091-00-RS	DUPAGE	26 24
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED -T. RAMMACHER 02-02-99	DEPARTMENT OF TRANSPORTATION				TC-22	CONTRACT	NO. 61A79
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. R	OAD DIST. NO. 1 ILLINOIS FED.	AID PROJECT	

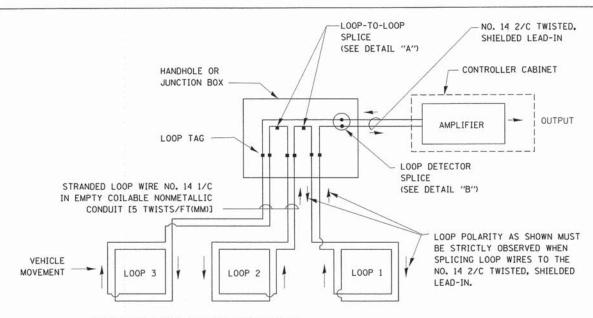
LOOP DETECTOR NOTES

- 1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT 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

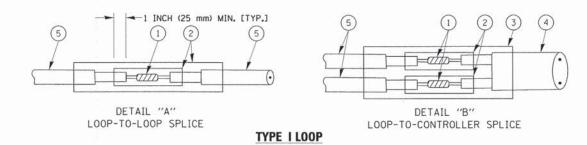


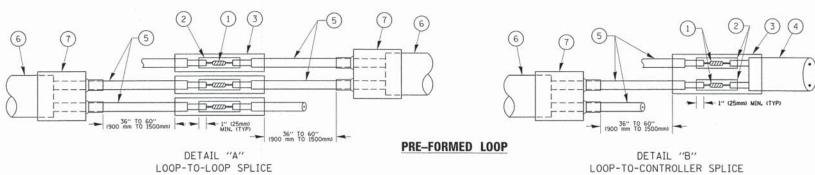
- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP *1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



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.





LOOP DETECTOR SPLICE

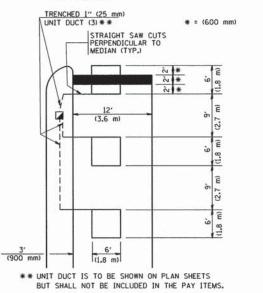
- 1 WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- (2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- 3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER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

- (5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- (6) PRE-FORMED LOOP
- 7 XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14		DISTRICT ONE	F.A.U. SECTION	COUNTY TOTAL SHEET
c:\pw_work\pwidot\footemj\d0108315	te05.dgn	DRAWN - BCK	REVISED -	STATE OF ILLINOIS STANDARD TRAFFIC CICARA DECICAL DECI	1370 14-00091-0	0-RS DUPAGE 26 25	
	PLOT SCALE # 50.0000 1/ 10.	CHECKED - DAD	REVISED -	DEPARTMENT OF TRANSPORTATION		TS-05	CONTRACT NO. 61A79
	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -		SCALE: NONE SHEET NO. 2 OF 7 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLIN	NOIS FED. AID PROJECT

LEFT TURN LANES WITH MEDIANS VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH LOOPS NEXT TO SHOULDERS (PROTECTED / PERMITTED LEFT TURN PHASING) PROVIDE A PAVEMENT REPLACEMENT

HANDHOLE LOCATION MAY 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 NON-PAVED SHOULDER

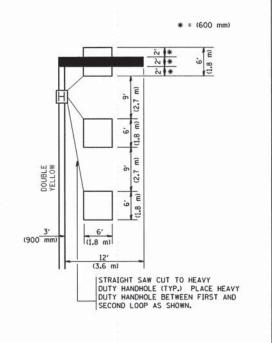


NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO

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: NONE

= (600 mm * * UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS

(1.5 m) (1.8 m) (1.5 m) *

(3.0 m)

(3.0 m)

NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER.

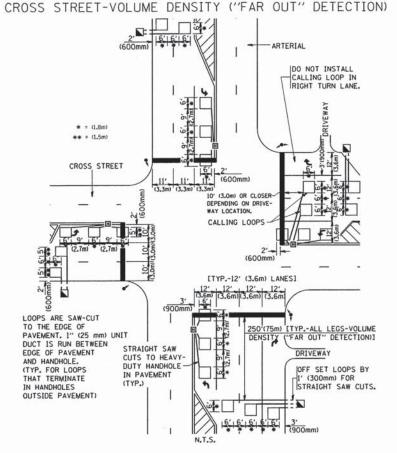
ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)

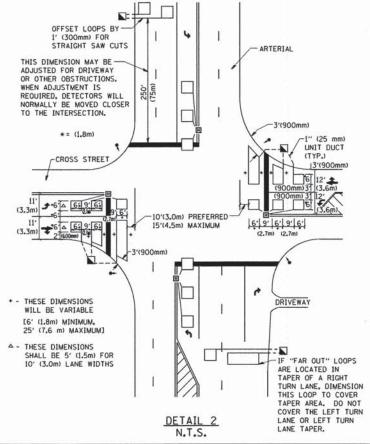
H

1" (25 mm) UNIT DUCT-TRENCHED

TO E/P ..

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. SHIFL DED.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE
- * 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 ALL DETECTOR LOOPS SHALL BE SIX FEET
- * 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.

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.

TOTAL SHEE SHEETS NO.

CONTRACT NO. 61A79

COUNTY

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DETAIL

DISTRICT 1 – DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING					F.A.U. SECTION			COUNTY			
					1370	91-00-RS	-RS DUPAGE				
DETAILS FUR RUADWAY RESURFACING						AT NESUNFA	TS-07			CONTRA	
	SHEET	NO. 1	OF	1	SHEETS	STA.	TO STA.	FED. ROAD	DIST. NO. 1	ILLINOIS FED.	AID PROJECT