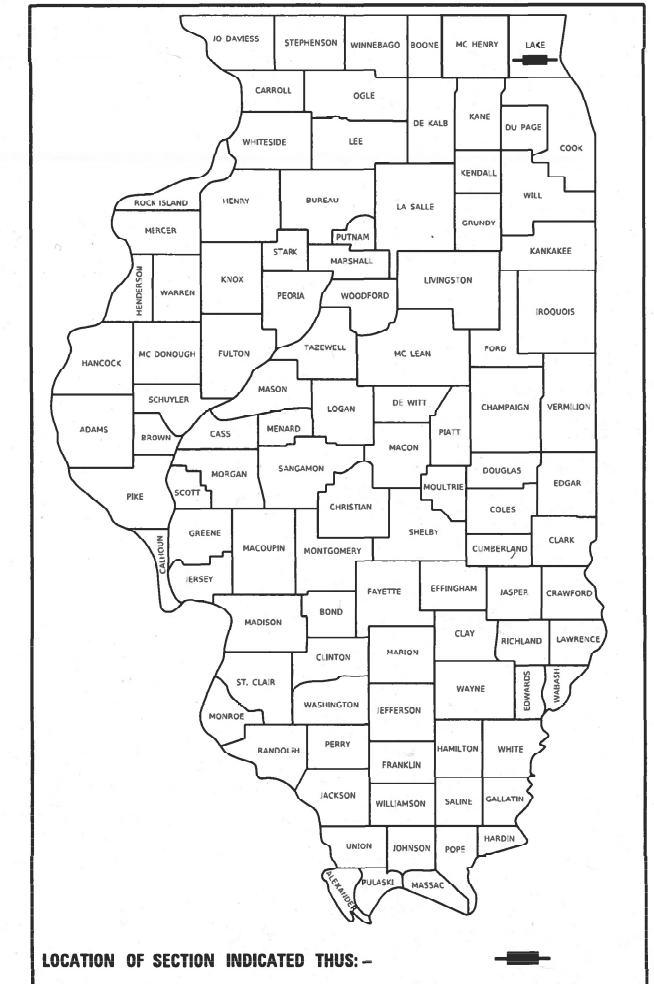


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	2021-027-RS	LAKE	26	1
		ILLINOIS	CONTRACT NO. 62N65	

D-91-115-21



PROPOSED HIGHWAY PLANS

ROUTE FAP 866:
IL ROUTE 83 (IVANHOE RD)
IL ROUTE 176 (MAPLE AVENUE) TO WINCHESTER ROAD
SECTION: 2021-027-RS
PROJECT: NHPP-CSZN(249)
SMART OVERLAY
LAKE COUNTY

FOR INDEX OF SHEETS AND HIGHWAY STANDARDS, SEE SHEET NO. 2

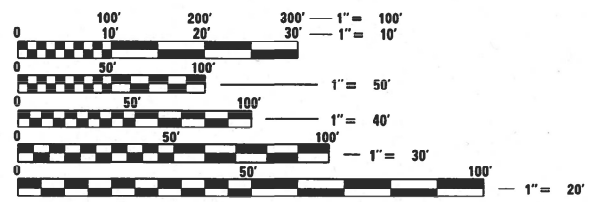
THIS PROJECT IS LOCATED
IN THE VILLAGE OF MUNDELEIN

TRAFFIC DATA

2019 ADT = 11,900 VPD (IL-83)
= 21,200 VPD (IL-60 / IL-83)
POSTED SPEED LIMIT = 40 MPH / 45 MPH / 50 MPH

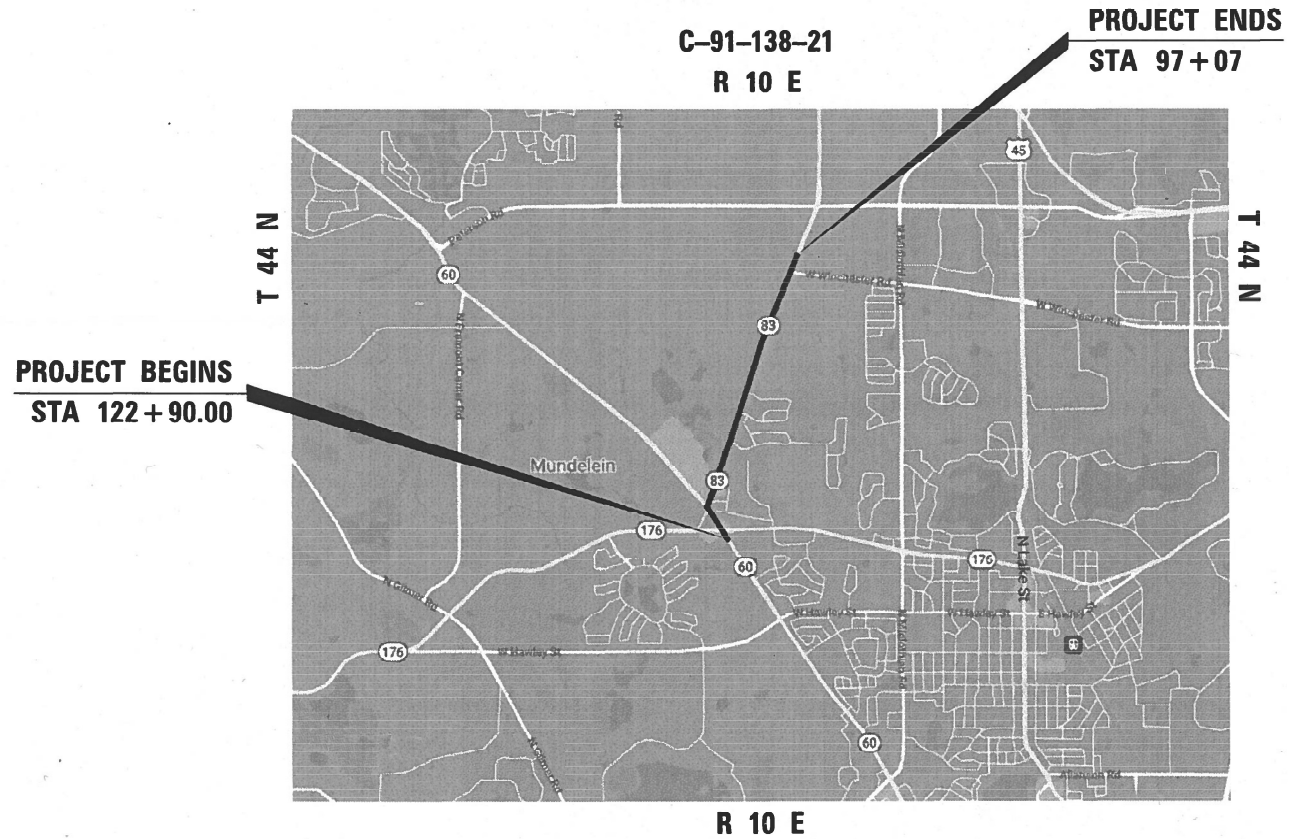


MUTHAYAB AHMED MOHAMMED, P.E.
IL LIC. NO. 062-072419
EXP: 11/30/2023
DATE: 1/26/2022
THIS SEAL AND SIGNATURE PERTAINS TO SHEETS 1-26



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

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811



FREMONT TOWNSHIP
LOCATION MAP
NOT TO SCALE

GROSS LENGTH = 9,830 FT. = 1.86 MILES
NET LENGTH = 9,830 FT. = 1.86 MILES

OSEH inc.
401 S CARLTON AVE
SUITE 201
WHEATON, IL 60187
WWW.OSEHINC.COM
CONTACT MUTHAYAB MOHAMMED (773) 750-6910

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED January 31 20 22
John Pios 1,003
REGION 1 ENGINEER
March 25 20 22
Steph M. Lewis
ENGINEER OF DESIGN AND ENVIRONMENT
March 25 20 22
Steph M. Lewis
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION 2

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

PROJECT ENGINEER: DANIEL WILGREEN, PE (847) 705-4240
PROJECT MANAGER: FAWAD AQUEEL, PE, PTOE (847) 705-4211

CONTRACT NO. 62N65

INDEX OF SHEETS

SHEET NO.	TITLE
1	COVER SHEET
2	INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES
3 - 4	SUMMARY OF QUANTITIES
5 - 8	TYPICAL SECTIONS
9 - 12	ROADWAY AND PAVEMENT MARKING PLANS
13 - 14	DETECTOR LOOP REPLACEMENT PLAN
15	DISTRICT ONE - DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING (BD-08)
16	DISTRICT ONE - PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD-22)
17	DISTRICT ONE - CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT (BD-24)
18	DISTRICT ONE - BUTT JOINT AND HMA TAPER DETAILS (BD-32)
19	DISTRICT ONE - TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10)
20	DISTRICT ONE - TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) (TC-11)
21	DISTRICT ONE - TYPICAL PAVEMENT MARKINGS (TC-13)
22	DISTRICT ONE - TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TC-14)
23	DISTRICT ONE - SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS (TC-16)
24	DISTRICT ONE - ARTERIAL ROAD INFORMATION SIGN (TC-22)
25	DISTRICT ONE - DRIVEWAY ENTRANCE SIGNING (TC-26)
26	DISTRICT ONE - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING (TS-07)

STATE STANDARDS

STANDARD NO.	DRAWING NAME
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION SYSTEMS
442201-03	CLASS C AND D PATCHES
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 M) AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-04	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS > 45 MPH
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS ≤ 40 MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701502-09	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701602-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
728001-01	TELESCOPING STEEL SIGN SUPPORT
886001-01	DETECTOR LOOP INSTALLATIONS

GENERAL NOTES

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOUR NOTIFICATION REQUIRED)
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF MUNDELEIN.
- FRAME AND GRATE ADJUSTMENT OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS SHALL BE DONE BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.
- THE CONTRACTOR SHALL CONTACT THE IDOT ARTERIAL DISTRICT ONE TRAFFIC CONTROL SUPERVISOR KALPANA KANNAN-HOSADURGA AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT THE WRITTEN PERMISSION OF THE DEPARTMENT.
- EXTENDED LANE CLOSURE SHALL BE APPROVED IN WRITING BY THE RESIDENT ENGINEER OR AS PROVIDED FOR IN THE CONTRACT SPECIFICATIONS. OVERNIGHT CLOSURE SHALL NOT BE ALLOWED FOR REHABILITATION PROJECTS INVOLVING DAYTIME MILLING AND RESURFACING OPERATIONS AND CLASS D PATCHING.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE RESIDENT ENGINEER / TECHNICIANS.
- LOCATIONS OF COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT, WILL BE DETERMINED IN THE FIELD BY THE RESIDENT ENGINEER / TECHNICIAN.
- CATCH BASINS, MANHOLES, INLETS, DRAINAGE STRUCTURES AND VALVE VAULTS ADJUSTMENT AND/OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE RESIDENT ENGINEER / TECHNICIAN.
- 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 ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS, UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.
- WHEN MILLED PAVEMENT OPENS TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1½ INCHES WHERE THE SPEED LIMIT IS 45 MPH OR LESS, AND 1 INCH WHERE THE SPEED LIMIT IS OVER 45 MPH. WITH WRITTEN APPROVAL FROM THE RESIDENT ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM OF 1V:3H.
- BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT) IN ACCORDANCE WITH THE "BUTT JOINT AND HMA TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
- THE RESIDENT ENGINEER SHALL CONTACT FADI SULTAN, AREA TRAFFIC FIELD ENGINEER, VIA E-MAIL AT FADI.SULTAN@ILLINOIS.GOV, A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- 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 RESIDENT ENGINEER.
- ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.
- ANY PAVEMENT MARKINGS OBLITERATED BY MILLING AND RESURFACING OPERATIONS ON SIDE STREETS AND ENTRANCES SHALL BE REPLACED AND PAID FOR IN KIND.
- PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES.
- THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATING NEAR ANY AND ALL EXISTING ITEMS THAT WILL NOT BE REMOVED INCLUDING PREVIOUSLY SEEDED AREAS. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S OWN EXPENSE TO THE SATISFACTION OF THE ENGINEER.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO SIDEWALKS, ADJACENT BUSINESSES, AND RESIDENCES AT ALL TIMES DURING CONSTRUCTION.
- ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF THE CURB OR DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER, SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL BE PAID UNDER THE PAY ITEM "DRAINAGE STRUCTURES TO BE CLEANED."
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ANY DETECTOR LOOPS DAMAGED DURING CONSTRUCTION.
- ALL MILLED SURFACES SHALL BE AT A UNIFORM CROSS SLOPE PER LANE AND FREE OF RIDGES BETWEEN PASSES. ANY DEVIATIONS SHALL BE CORRECTED AT NO COST TO THE DEPARTMENT.

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 PLOT DATE = 3/16/2022

DESIGNED - AJD
 DRAWN - KLN
 CHECKED - MM
 DATE - 3/16/2022

REVISED - _____
 REVISED - _____
 REVISED - _____
 REVISED - _____

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES
 IL RTE 83 / IVANHOE RD (IL RTE 176 (MAPLE AVE) TO WINCHESTER RD)
 SCALE: NTS SHEET 1 OF 1 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	2021-027-RS	LAKE	26	2
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N65	

PAY ITEM NUMBER	DESIGNATION	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				URBAN	
				80% FEDERAL 20% STATE	100% STATE
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	108	108	
25200110	SODDING, SALT TOLERANT	SQ YD	96.8	96.8	
28000510	INLET FILTERS	EACH	30	30	
35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SQ YD	3.3	3.3	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	20,698	20,698	
40600370	LONGITUDINAL JOINT SEALANT	FOOT	17,892	17,892	
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	82	82	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	344	344	
40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	0.3	0.3	
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	3,864	3,864	
42001300	PROTECTIVE COAT	SQ YD	31	31	
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	45,996	45,996	
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	3.3	3.3	
44201815	CLASS D PATCHES, TYPE II, 14 INCH	SQ YD	480	480	
44201819	CLASS D PATCHES, TYPE III, 14 INCH	SQ YD	290	290	
44201821	CLASS D PATCHES, TYPE IV, 14 INCH	SQ YD	275	275	
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	300	300	
60250200	CATCH BASINS TO BE ADJUSTED	EACH	1	1	
60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	1	1	
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	2	2	
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	5	5	
67100100	MOBILIZATION	L SUM	1	1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	

* = SPECIALTY ITEM

PAY ITEM NUMBER	DESIGNATION	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				URBAN	
				80% FEDERAL 20% STATE	100% STATE
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1	
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1	
70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	L SUM	1	1	
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1	
70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	L SUM	1	1	
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	4,103.0	4,103.0	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	1,368.0	1,368.0	
70300211	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - PAINT	SQ FT	1,310.0	1,310.0	
70300221	TEMPORARY PAVEMENT MARKING - LINE 4" - PAINT	FOOT	34,125.0	34,125.0	
70300241	TEMPORARY PAVEMENT MARKING - LINE 6" - PAINT	FOOT	3,856.0	3,856.0	
70300251	TEMPORARY PAVEMENT MARKING - LINE 8" - PAINT	FOOT	127.0	127.0	
70300261	TEMPORARY PAVEMENT MARKING - LINE 12" - PAINT	FOOT	437.0	437.0	
70300281	TEMPORARY PAVEMENT MARKING - LINE 24" - PAINT	FOOT	397.0	397.0	
70306120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE III TAPE	FOOT	4,981.0	4,981.0	
72000100	SIGN PANEL - TYPE 1	SQ FT	66	66	
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	1,310.0	1,310.0	
72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	64	64	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	34,125.0	34,125.0	
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	3,856.0	3,856.0	
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	127.0	127.0	
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	552	552	
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	397.0	397.0	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	694	694	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	694	694	

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USER NAME = S\USERS
401 S CARLTON AVE
SUITE 201
WHEATON, IL 60187
WWW.OSEHINC.COM
PLOT SCALE = 2.0000' / in.
PLOT DATE = 2/7/2022

DESIGNED - AJD
DRAWN - KLN
CHECKED - MM
DATE - 2/7/2022
REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES
IL RTE 83 / IVANHOE RD (IL RTE 176 (MAPLE AVE) TO WINCHESTER RD)
SCALE: SHEET 1 OF 2 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	2021-027-R5	LAKE	26	3
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N65	

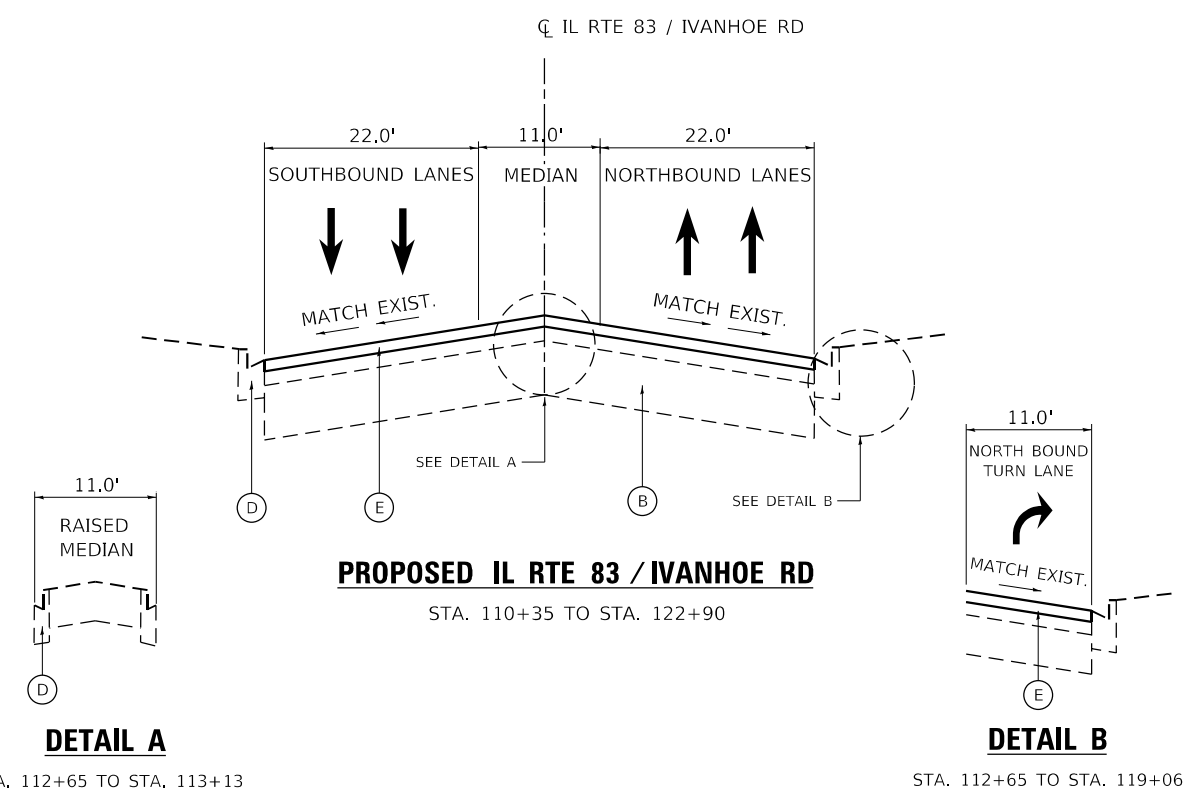
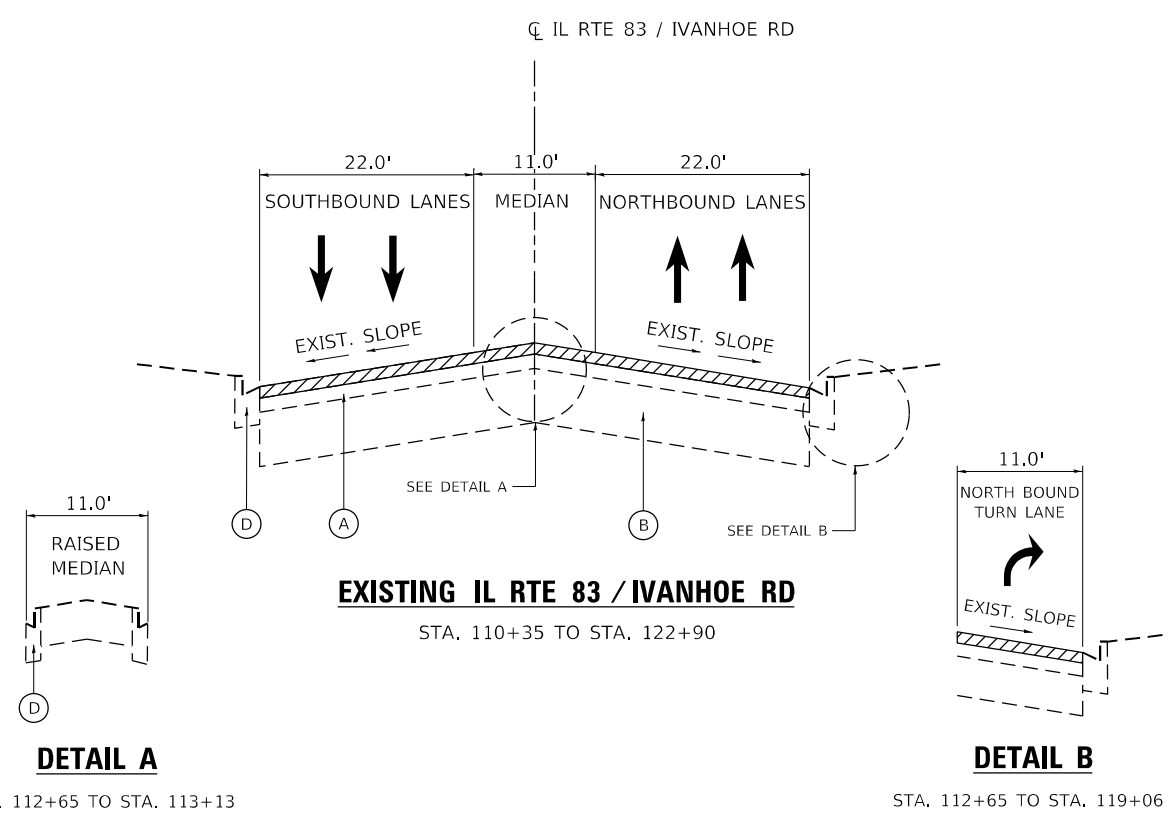
HOT-MIX ASPHALT MIXTURE REQUIREMENTS		
MIXTURE TYPE	AIR VOIDS @ Ndesign	QMP
PAVEMENT RESURFACING		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70; 1½"	4% @ 70 GYR.	QCP
DRIVEWAYS		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50	4% @ 50 GYR.	QC/QA
HOT-MIX ASPHALT BASE COURSE, 6" (HMA BINDER IL-19.0)	4% @ 50 GYR.	QC/QA
PATCHING		
CLASS D PATCHES (HMA BINDER IL-19.0)	4% @ 70 GYR.	QC/QA
QMP DESIGNATION: QUALITY CONTROL/ QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PERFORMANCE (QCP); PAY FOR PERFORMANCE (PFP)		

NOTES

1. THE UNIT WEIGHT TO BE USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES 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 RECLAIMED MATERIALS SPECIFICATIONS.
3. THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE MILLED SURFACE.
4. CONTRACTOR SHALL MILL BEFORE PATCHING.

LEGEND

- (A) EXISTING HMA PAVEMENT (6")
- (B) EXISTING PCC PAVEMENT (9")
- (C) EXISTING AGGREGATE SHOULDER
- (D) EXISTING CURB AND GUTTER
- (E) PROPOSED HMA SURFACE COURSE, MIX "D", IL-9.5, N70; 1 1/2"
- (F) PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- ▨ 1½" HMA SURFACE REMOVAL



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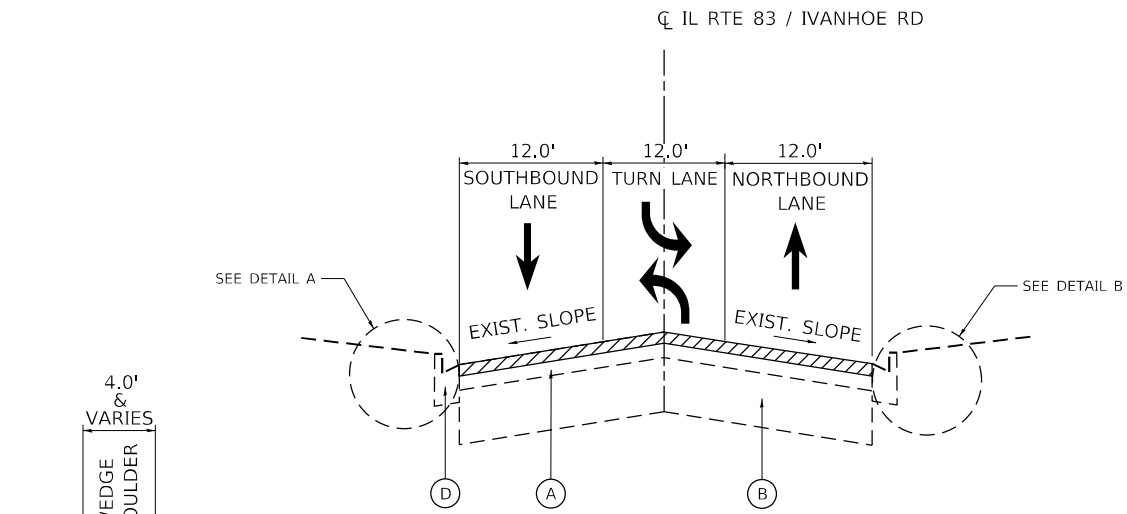


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PLOT DATE = 3/16/2022	CHECKED - MM	REVISED - _____
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

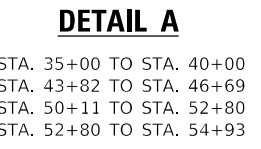
TYPICAL SECTIONS IL ROUTE 83 / IVANHOE RD	
SCALE: 1"=20'	SHEET 1 OF 4 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	2021-027-R5	LAKE	26	5
CONTRACT NO. 62N65				
ILLINOIS FED. AID PROJECT				



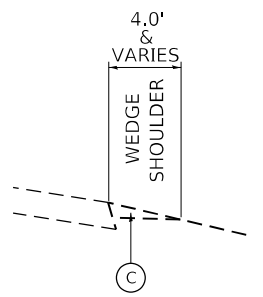
EXISTING IL RTE 83 / IVANHOE RD

STA. 16+21 TO STA. 29+04
 STA. 35+00 TO STA. 40+00
 STA. 43+00 TO STA. 47+67
 STA. 50+00 TO STA. 54+93



DETAIL A

STA. 35+00 TO STA. 40+00
 STA. 43+82 TO STA. 46+69
 STA. 50+11 TO STA. 52+80
 STA. 52+80 TO STA. 54+93

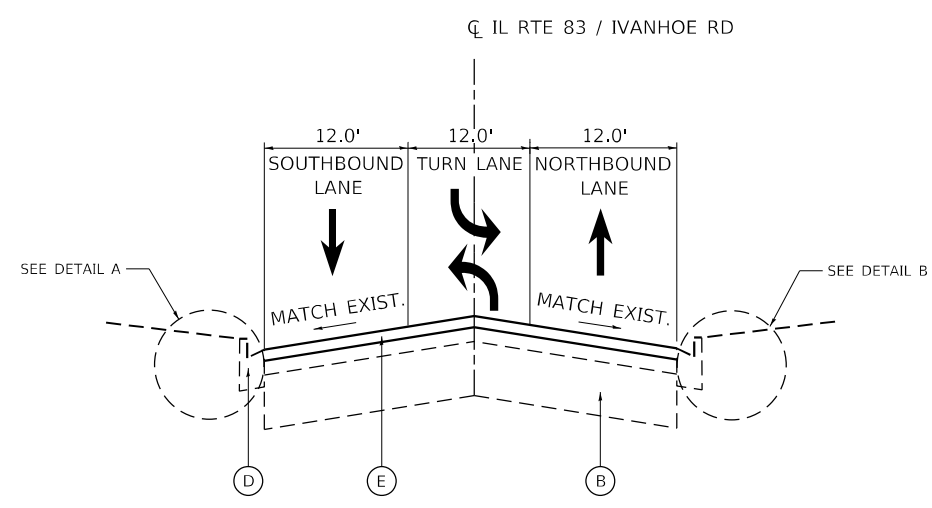


DETAIL B

STA. 35+00 TO STA. 40+00
 STA. 43+82 TO STA. 46+69
 STA. 50+11 TO STA. 52+80
 STA. 52+80 TO STA. 54+93

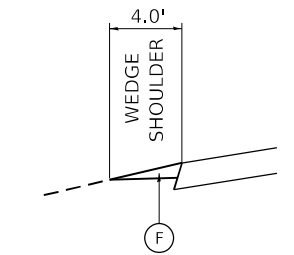
NOTES

1. THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE MILLED SURFACE.
2. CONTRACTOR SHALL MILL BEFORE PATCHING.



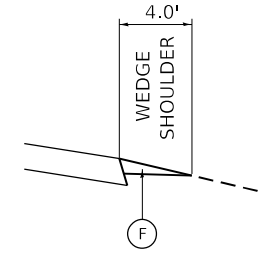
PROPOSED IL RTE 83 / IVANHOE RD

STA. 16+21 TO STA. 29+04
 STA. 35+00 TO STA. 40+00
 STA. 43+00 TO STA. 47+67
 STA. 50+00 TO STA. 54+93



DETAIL A

STA. 50+60 TO STA. 54+93



DETAIL B

STA. 37+48 TO STA. 40+00
 STA. 50+60 TO STA. 54+93

LEGEND

- (A) EXISTING HMA PAVEMENT (6")
- (B) EXISTING PCC PAVEMENT (9")
- (C) EXISTING AGGREGATE SHOULDER
- (D) EXISTING CURB AND GUTTER
- (E) PROPOSED HMA SURFACE COURSE, MIX "D", IL-9.5, N70; 1 1/2"
- (F) PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- 1 1/2" HMA SURFACE REMOVAL

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 PROJECT TITLE: Lake County Lakefront
 PROJECT LOCATION: Lake County, IL
 PROJECT NUMBER: 62N65
 PROJECT DATE: 2/4/2022

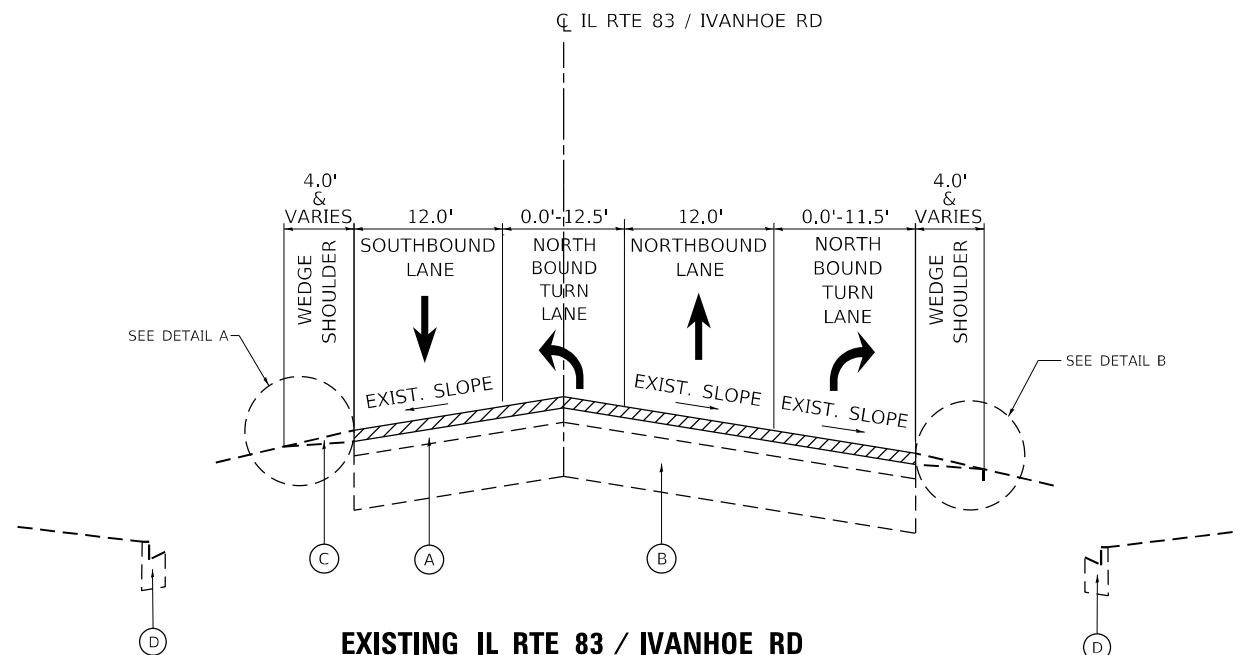


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PLOT DATE = 2/4/2022	CHECKED - MM	REVISED - _____
	DATE - 2/4/2022	REVISED - _____

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS IL ROUTE 83 / IVANHOE RD	
SCALE: 1"=20'	SHEET 2 OF 4 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	2021-027-RS	LAKE	26	6
CONTRACT NO. 62N65				
ILLINOIS FED. AID PROJECT				



EXISTING IL RTE 83 / IVANHOE RD

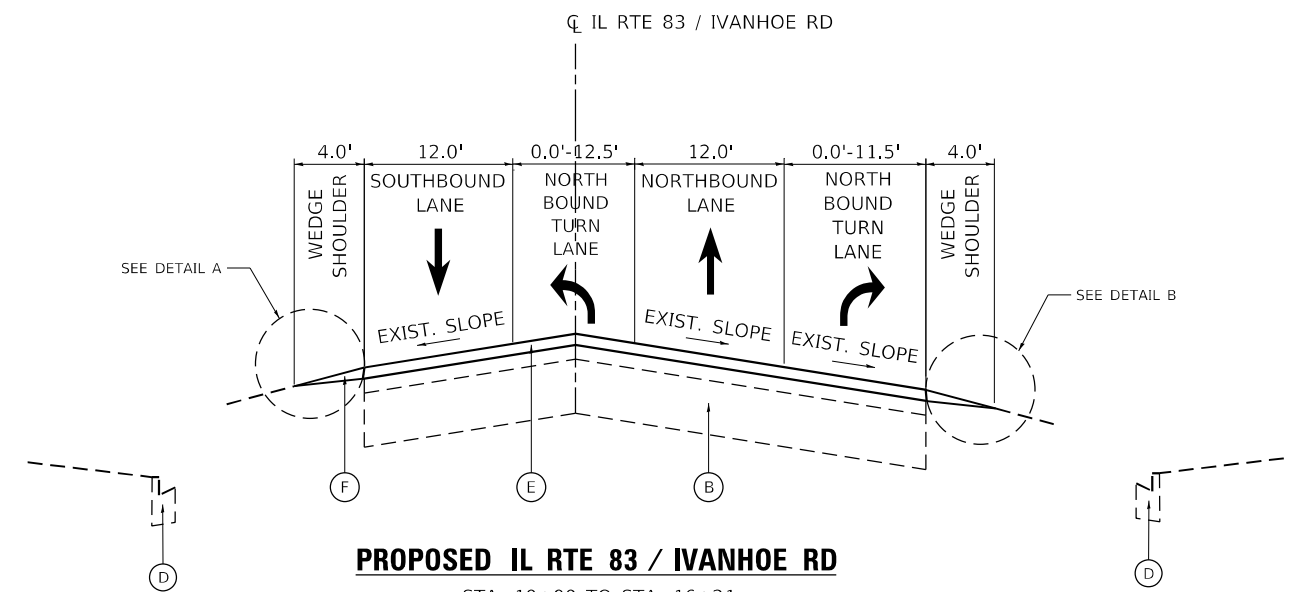
STA. 10+00 TO STA. 16+21
 STA. 29+04 TO STA. 33+00
 STA. 47+67 TO STA. 50+00
 STA. 40+00 TO STA. 43+00

DETAIL A
 STA. 10+00 TO STA. 16+21
 STA. 29+04 TO STA. 29+89

DETAIL B
 STA. 10+00 TO STA. 16+21
 STA. 29+04 TO STA. 29+89

NOTES

1. THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE MILLED SURFACE.
2. CONTRACTOR SHALL MILL BEFORE PATCHING.



PROPOSED IL RTE 83 / IVANHOE RD

STA. 10+00 TO STA. 16+21
 STA. 29+04 TO STA. 33+00
 STA. 47+67 TO STA. 50+00
 STA. 40+00 TO STA. 43+00

DETAIL A
 STA. 10+00 TO STA. 16+21
 STA. 29+04 TO STA. 29+89

DETAIL B
 STA. 10+00 TO STA. 16+21
 STA. 29+04 TO STA. 29+89

LEGEND

- (A) EXISTING HMA PAVEMENT (6")
- (B) EXISTING PCC PAVEMENT (9")
- (C) EXISTING AGGREGATE SHOULDER
- (D) EXISTING CURB AND GUTTER
- (E) PROPOSED HMA SURFACE COURSE, MIX "D", IL-9.5, N70; 1 1/2"
- (F) PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- ▨ 1 1/2" HMA SURFACE REMOVAL

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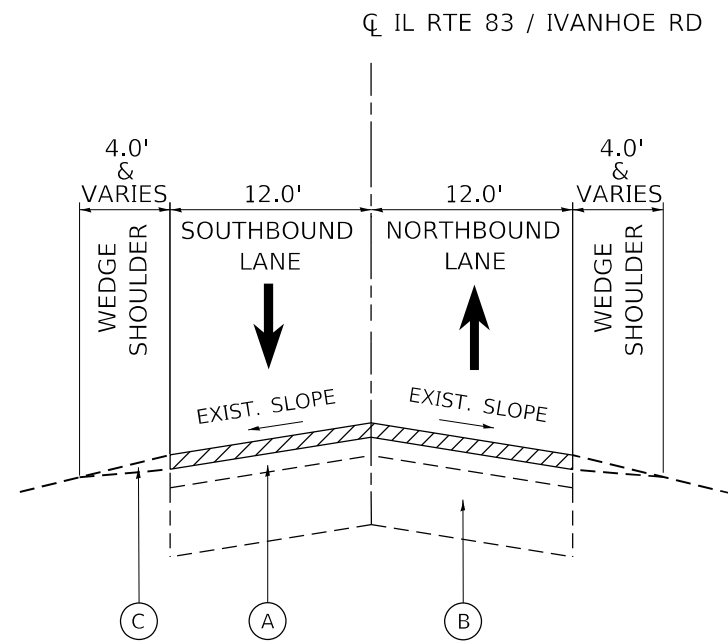


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	DATE - 2/4/2022	REVISED - _____

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

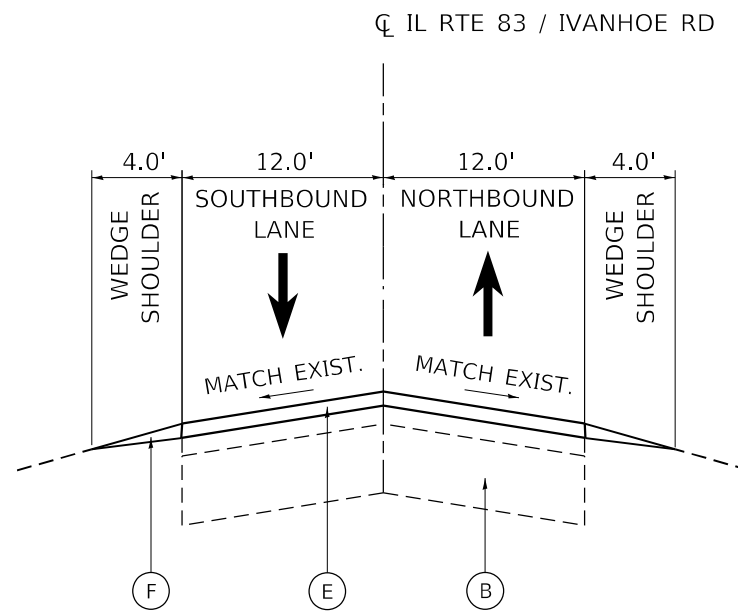
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SCALE: 1"=20'	SHEET 3 OF 4 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	2021-027-R5	LAKE	26	7
CONTRACT NO. 62N65				
ILLINOIS FED. AID PROJECT				



EXISTING IL RTE 83 / IVANHOE RD

STA. 54+93 TO STA. 97+07



PROPOSED IL RTE 83 / IVANHOE RD

STA. 54+93 TO STA. 97+07

NOTES

1. THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE MILLED SURFACE.
2. CONTRACTOR SHALL MILL BEFORE PATCHING.

LEGEND

- (A) EXISTING HMA PAVEMENT (6")
- (B) EXISTING PCC PAVEMENT (9")
- (C) EXISTING AGGREGATE SHOULDER
- (D) EXISTING CURB AND GUTTER
- (E) PROPOSED HMA SURFACE COURSE, MIX "D", IL-9.5, N70: 1 1/2"
- (F) PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- ▨ 1 1/2" HMA SURFACE REMOVAL

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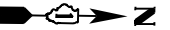
OSEH inc.
 401 S CARLTON AVE
 SUITE 201
 WHEATON, IL 60187
 WWW.OSEHINC.COM

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

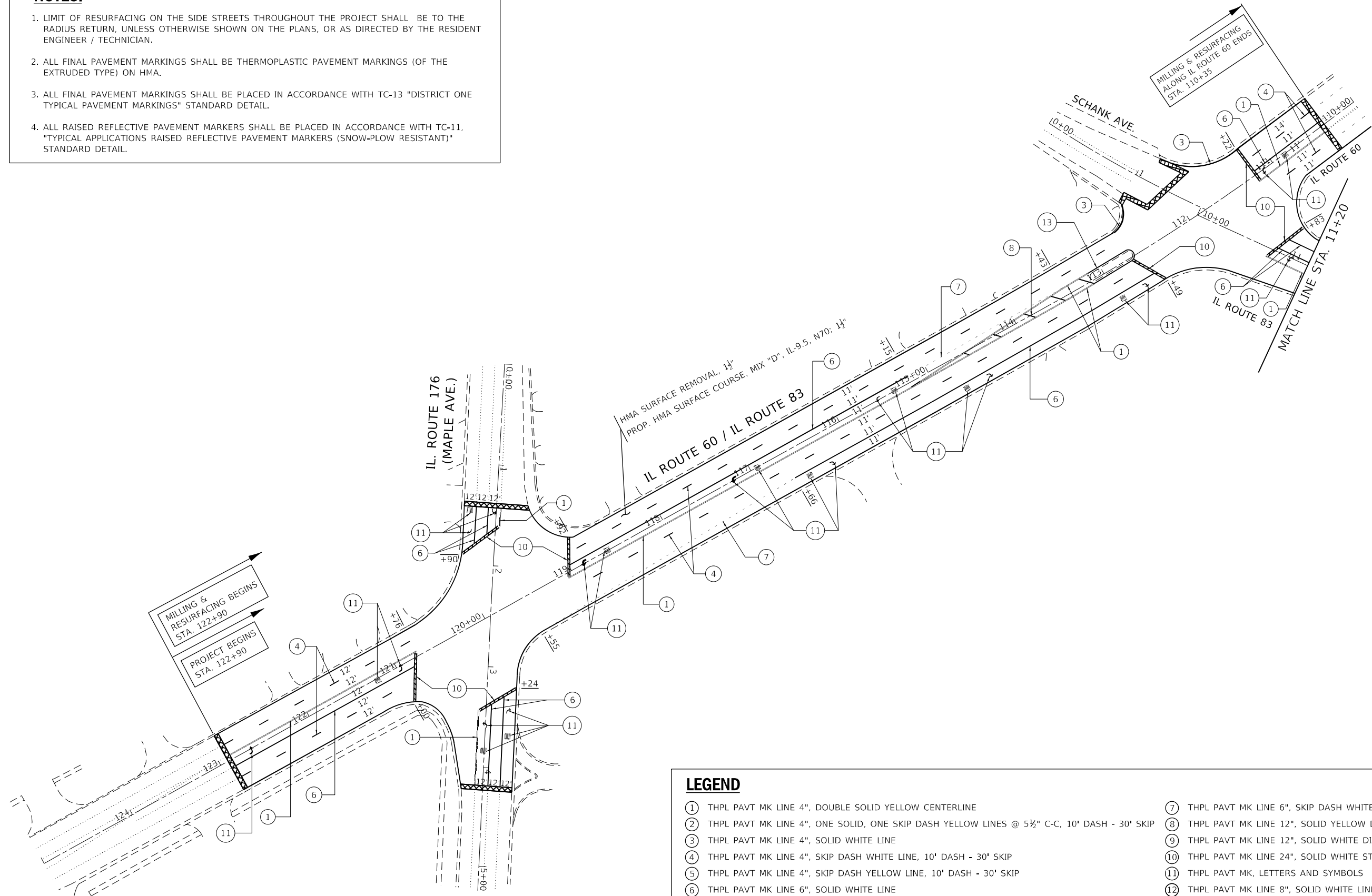
TYPICAL SECTIONS IL ROUTE 83 / IVANHOE RD	
SCALE: 1"=20'	SHEET 4 OF 4 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	2021-027-R5	LAKE	26	8
CONTRACT NO. 62N65				
ILLINOIS FED. AID PROJECT				



NOTES:

1. LIMIT OF RESURFACING ON THE SIDE STREETS THROUGHOUT THE PROJECT SHALL BE TO THE RADIUS RETURN, UNLESS OTHERWISE SHOWN ON THE PLANS, OR AS DIRECTED BY THE RESIDENT ENGINEER / TECHNICIAN.
2. ALL FINAL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC PAVEMENT MARKINGS (OF THE EXTRUDED TYPE) ON HMA.
3. ALL FINAL PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH TC-13 "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" STANDARD DETAIL.
4. ALL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH TC-11, "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" STANDARD DETAIL.



LEGEND

- ① THPL PAVT MK LINE 4", DOUBLE SOLID YELLOW CENTERLINE
 - ② THPL PAVT MK LINE 4", ONE SOLID, ONE SKIP DASH YELLOW LINES @ 5 1/2" C-C, 10' DASH - 30' SKIP
 - ③ THPL PAVT MK LINE 4", SOLID WHITE LINE
 - ④ THPL PAVT MK LINE 4", SKIP DASH WHITE LINE, 10' DASH - 30' SKIP
 - ⑤ THPL PAVT MK LINE 4", SKIP DASH YELLOW LINE, 10' DASH - 30' SKIP
 - ⑥ THPL PAVT MK LINE 6", SOLID WHITE LINE
 - ⑦ THPL PAVT MK LINE 6", SKIP DASH WHITE LANE LINE, 2' DASH - 6' SKIP
 - ⑧ THPL PAVT MK LINE 12", SOLID YELLOW DIAGONAL, 45° (5 LINES MINIMUM)
 - ⑨ THPL PAVT MK LINE 12", SOLID WHITE DIAGONAL, 45° @ 10' MAX. SPACING
 - ⑩ THPL PAVT MK LINE 24", SOLID WHITE STOP BAR
 - ⑪ THPL PAVT MK, LETTERS AND SYMBOLS
 - ⑫ THPL PAVT MK LINE 8", SOLID WHITE LINE
 - ⑬ THPL PAVT MK LINE 4", SOLID YELLOW LINE
 - ⑭ RAISED REFLECTIVE PAVEMENT MARKER
- HMA SURFACE REMOVAL BUTT JOINT, 4.5'

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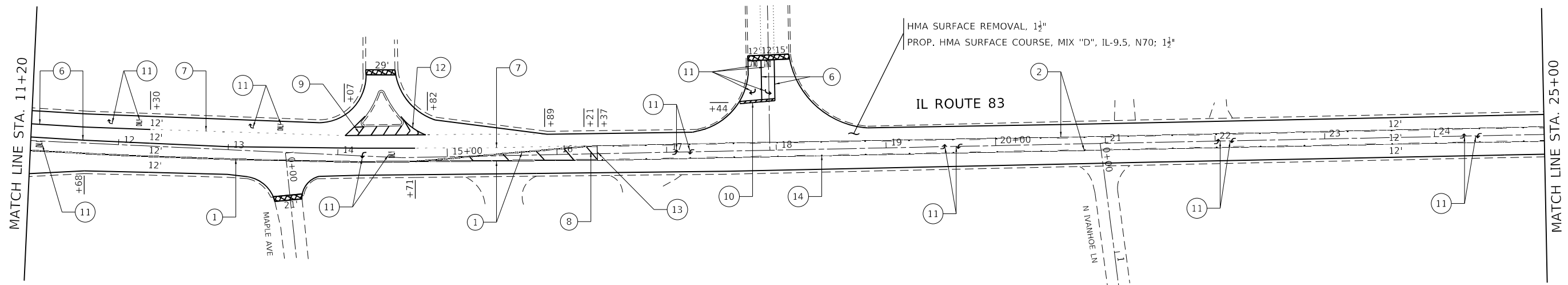
OSEH inc.
401 S CARLTON AVE
SUITE 201
WHEATON, IL 60187
WWW.OSEHINC.COM

USER NAME = SUSERS	DESIGNED - AJD	REVISED -
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PLOT DATE = 1/28/2022	CHECKED - MM	REVISED -
	DATE - 1/28/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROADWAY AND PAVEMENT MARKING PLAN
IL RTE 83 / IVANHOE RD (IL RTE 176 (MAPLE AVE) TO WINCHESTER RD)
 SCALE: 1" = 50' SHEET 1 OF 4 SHEETS STA. 122 + 90 TO STA. 11 + 20

F.A.P. RTE. 866	SECTION 2021-027-R5	COUNTY LAKE	TOTAL SHEETS 26	SHEET NO. 9
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N65	

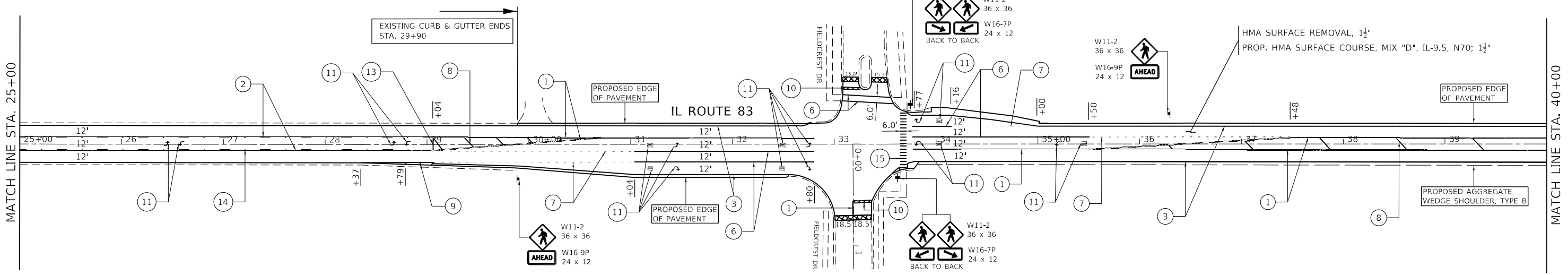


LEGEND

- ① THPL PAVT MK LINE 4", DOUBLE SOLID YELLOW CENTERLINE
 - ② THPL PAVT MK LINE 4", ONE SOLID, ONE SKIP DASH YELLOW LINES @ 5 1/2" C-C, 10' DASH - 30' SKIP
 - ③ THPL PAVT MK LINE 4", SOLID WHITE LINE
 - ④ THPL PAVT MK LINE 4", SKIP DASH WHITE LINE, 10' DASH - 30' SKIP
 - ⑤ THPL PAVT MK LINE 4", SKIP DASH YELLOW LINE, 10' DASH - 30' SKIP
 - ⑥ THPL PAVT MK LINE 6", SOLID WHITE LINE
 - ⑦ THPL PAVT MK LINE 6", SKIP DASH WHITE LANE LINE, 2' DASH - 6' SKIP
 - ⑧ THPL PAVT MK LINE 12", SOLID YELLOW DIAGONAL, 45° (5 LINES MINIMUM)
 - ⑨ THPL PAVT MK LINE 12", SOLID WHITE DIAGONAL, 45° @ 10' MAX. SPACING
 - ⑩ THPL PAVT MK LINE 24", SOLID WHITE STOP BAR
 - ⑪ THPL PAVT MK, LETTERS AND SYMBOLS
 - ⑫ THPL PAVT MK LINE 8", SOLID WHITE LINE
 - ⑬ THPL PAVT MK LINE 4", SOLID YELLOW LINE
 - ⑭ RAISED REFLECTIVE PAVEMENT MARKER
 - ⑮ THPL PAVT MK LINE 12", (WHITE CROSSWALK @ 2' CLEAR SPACING)
- ▨ HMA SURFACE REMOVAL BUTT JOINT, 4.5'

NOTES:

1. LIMIT OF RESURFACING ON THE SIDE STREETS THROUGHOUT THE PROJECT SHALL BE TO THE RADIUS RETURN, UNLESS OTHERWISE SHOWN ON THE PLANS, OR AS DIRECTED BY THE RESIDENT ENGINEER / TECHNICIAN.
2. ALL FINAL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC PAVEMENT MARKINGS (OF THE EXTRUDED TYPE) ON HMA.
3. ALL FINAL PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH TC-13 "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" STANDARD DETAIL.
4. ALL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH TC-11, "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" STANDARD DETAIL.
5. ALL SIGN LOCATIONS ARE APPROXIMATE ONLY. CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO DETERMINE THE EXACT LOCATION.



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OSEH inc.
 401 S CARLTON AVE
 SUITE 201
 WHEATON, IL 60187
 WWW.OSEHINC.COM

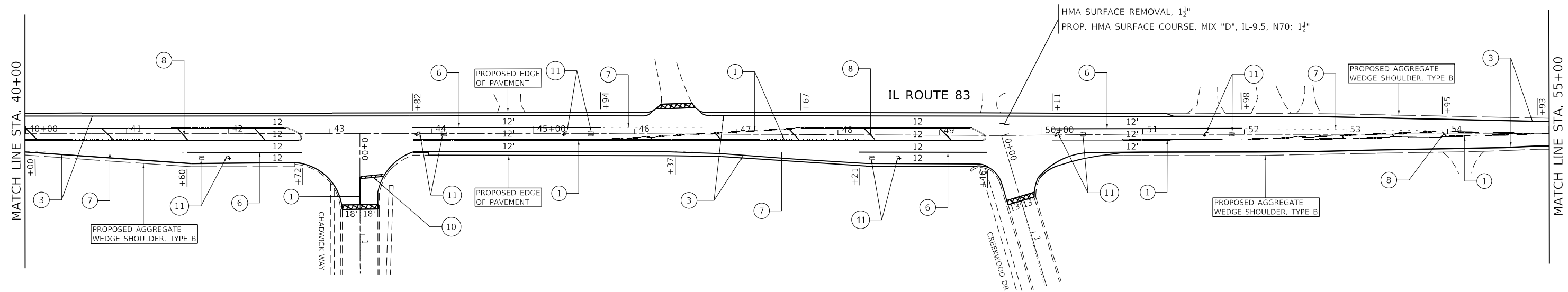
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ROADWAY AND PAVEMENT MARKING PLAN
 IL RTE 83 / IVANHOE RD (IL RTE 176 (MAPLE AVE) TO WINCHESTER RD)**

SCALE: 1" = 50' SHEET 2 OF 4 SHEETS STA. 11 + 20 TO STA. 40 + 00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	2021-027-R5	LAKE	26	10
CONTRACT NO. 62N65			ILLINOIS FED. AID PROJECT	



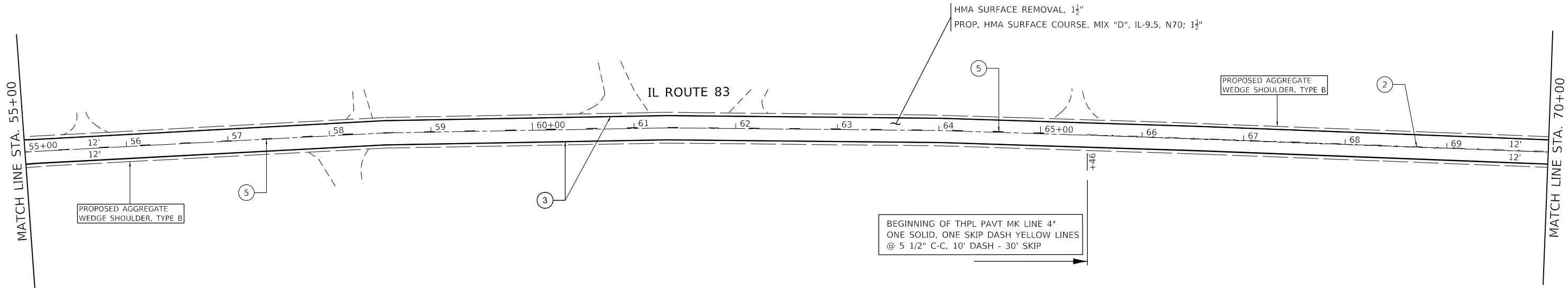
LEGEND

- ① THPL PAVT MK LINE 4", DOUBLE SOLID YELLOW CENTERLINE
- ② THPL PAVT MK LINE 4", ONE SOLID, ONE SKIP DASH YELLOW LINES @ 5 1/2" C-C, 10' DASH - 30' SKIP
- ③ THPL PAVT MK LINE 4", SOLID WHITE LINE
- ④ THPL PAVT MK LINE 4", SKIP DASH WHITE LINE, 10' DASH - 30' SKIP
- ⑤ THPL PAVT MK LINE 4", SKIP DASH YELLOW LINE, 10' DASH - 30' SKIP
- ⑥ THPL PAVT MK LINE 6", SOLID WHITE LINE
- ⑦ THPL PAVT MK LINE 6", SKIP DASH WHITE LANE LINE, 2' DASH - 6' SKIP
- ⑧ THPL PAVT MK LINE 12", SOLID YELLOW DIAGONAL, 45° (5 LINES MINIMUM)
- ⑨ THPL PAVT MK LINE 12", SOLID WHITE DIAGONAL, 45° @ 10' MAX. SPACING
- ⑩ THPL PAVT MK LINE 24", SOLID WHITE STOP BAR
- ⑪ THPL PAVT MK, LETTERS AND SYMBOLS
- ⑫ THPL PAVT MK LINE 8", SOLID WHITE LINE
- ⑬ THPL PAVT MK LINE 4", SOLID YELLOW LINE
- ⑭ RAISED REFLECTIVE PAVEMENT MARKER

HMA SURFACE REMOVAL BUTT JOINT, 4.5'

NOTES:

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BEGINNING OF THPL PAVT MK LINE 4"
ONE SOLID, ONE SKIP DASH YELLOW LINES
@ 5 1/2" C-C, 10' DASH - 30' SKIP

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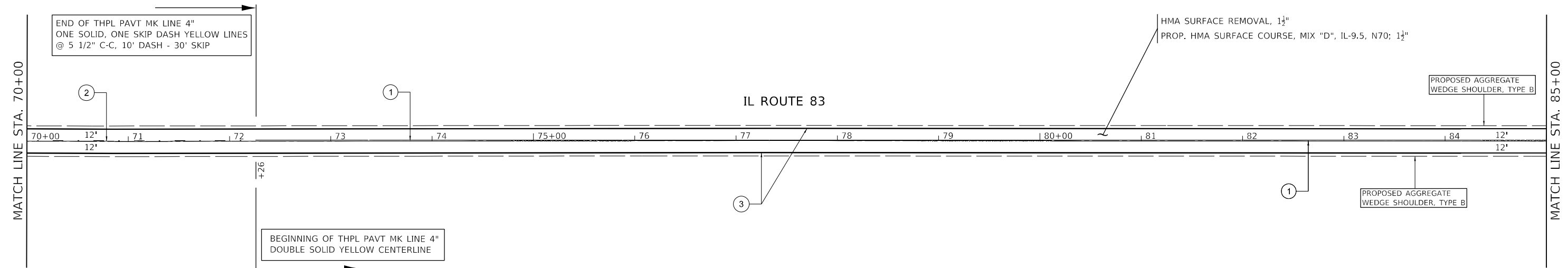


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PLOT DATE = 1/28/2022	DATE - 1/28/2022	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROADWAY AND PAVEMENT MARKING PLAN			
IL RTE 83 / IVANHOE RD (IL RTE 176 (MAPLE AVE) TO WINCHESTER RD)			
SCALE: 1" = 50'	SHEET 3 OF 4 SHEETS	STA. 40 + 00 TO STA. 70 + 00	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	2021-027-R5	LAKE	26	11
CONTRACT NO. 62N65				
ILLINOIS FED. AID PROJECT				



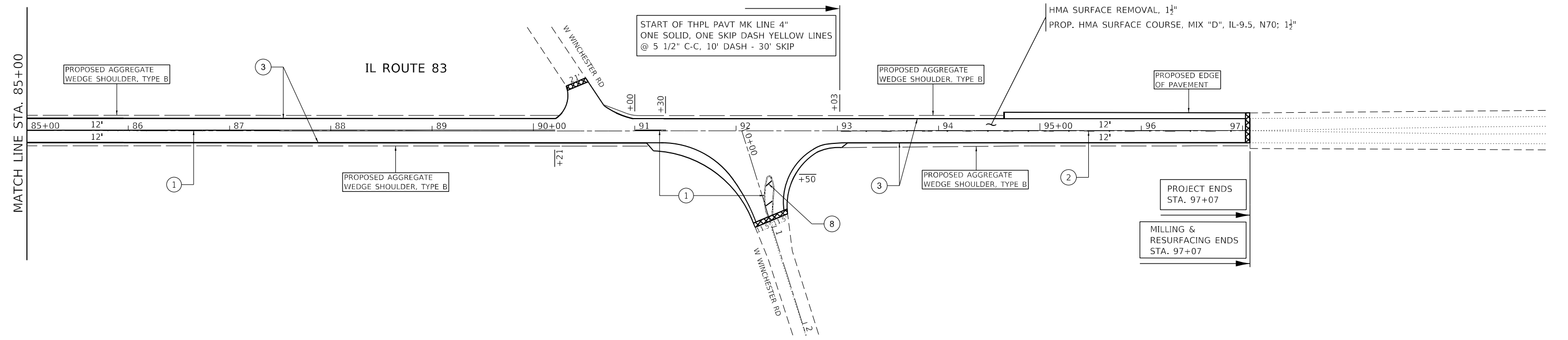
LEGEND

- ① THPL PAVT MK LINE 4", DOUBLE SOLID YELLOW CENTERLINE
- ② THPL PAVT MK LINE 4", ONE SOLID, ONE SKIP DASH YELLOW LINES @ 5 1/2" C-C, 10' DASH - 30' SKIP
- ③ THPL PAVT MK LINE 4", SOLID WHITE LINE
- ④ THPL PAVT MK LINE 4", SKIP DASH WHITE LINE, 10' DASH - 30' SKIP
- ⑤ THPL PAVT MK LINE 4", SKIP DASH YELLOW LINE, 10' DASH - 30' SKIP
- ⑥ THPL PAVT MK LINE 6", SOLID WHITE LINE
- ⑦ THPL PAVT MK LINE 6", SKIP DASH WHITE LANE LINE, 2' DASH - 6' SKIP
- ⑧ THPL PAVT MK LINE 12", SOLID YELLOW DIAGONAL, 45° (5 LINES MINIMUM)
- ⑨ THPL PAVT MK LINE 12", SOLID WHITE DIAGONAL, 45° @ 10' MAX. SPACING
- ⑩ THPL PAVT MK LINE 24", SOLID WHITE STOP BAR
- ⑪ THPL PAVT MK, LETTERS AND SYMBOLS
- ⑫ THPL PAVT MK LINE 8", SOLID WHITE LINE
- ⑬ THPL PAVT MK LINE 4", SOLID YELLOW LINE
- ⑭ RAISED REFLECTIVE PAVEMENT MARKER

HMA SURFACE REMOVAL BUTT JOINT, 4.5'

NOTES:

- LIMIT OF RESURFACING ON THE SIDE STREETS THROUGHOUT THE PROJECT SHALL BE TO THE RADIUS RETURN, UNLESS OTHERWISE SHOWN ON THE PLANS, OR AS DIRECTED BY THE RESIDENT ENGINEER / TECHNICIAN.
- ALL FINAL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC PAVEMENT MARKINGS (OF THE EXTRUDED TYPE) ON HMA.
- ALL FINAL PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH TC-13 "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" STANDARD DETAIL.
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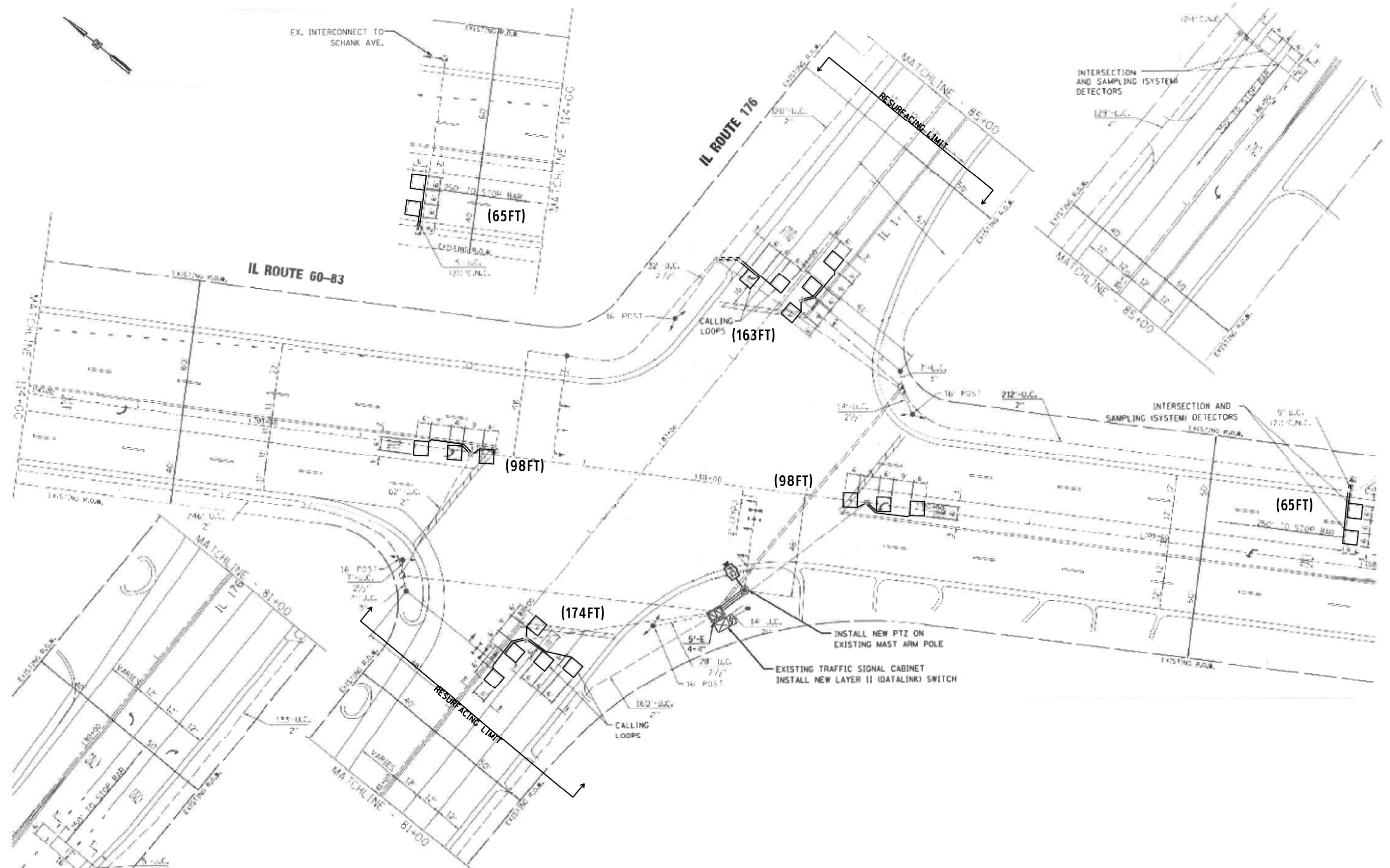
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	PLOT DATE = 1/28/2022	CHECKED - MM	REVISED - _____
		DATE - 1/28/2022	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY AND PAVEMENT MARKING PLAN
IL RTE 83 / IVANHOE RD (IL RTE 176 (MAPLE AVE) TO WINCHESTER RD)
 SCALE: 1" = 50' SHEET 4 OF 4 SHEETS STA. 70 + 00 TO STA. 97 + 07

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	2021-027-RS	LAKE	26	12
CONTRACT NO. 62N65				
ILLINOIS FED. AID PROJECT				

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 OSEH inc. 401 S CARLTON AVE SUITE 201 WHEATON, IL 60187 WWW.OSEHINC.COM



- NOTES:**
- 1.- WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING & PATCHING OPERATIONS).
 - 2.- THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENT.

REPLACE ALL DETECTOR LOOPS AS SHOWN (WITHIN THE RESURFACING LIMITS)

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	663	FOOT

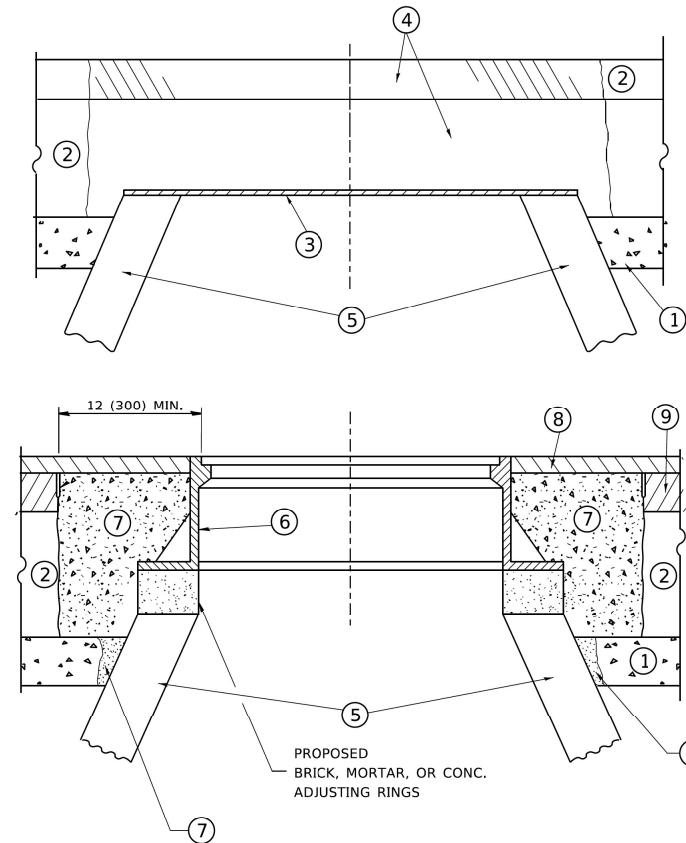
TS#6915

OSEH inc.	USER NAME = mezag	DESIGNED - Steven M. Nguyen	REVISED -
	PLOT SCALE = 40.0000' / in.	DRAWN - Gonzalo Meza	REVISED -
	PLOT DATE = 6/8/2021	CHECKED - Steven M. Nguyen	REVISED -
		DATE - 06/03/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETECTOR LOOP REPLACEMENT PLAN	
IL 83 AT MAPLE AV. (IL 176)	
SCALE:	SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE. 866	SECTION 2021-027-R5	COUNTY LAKE	TOTAL SHEETS 26	SHEET NO. 13
CONTRACT NO. 62N65			ILLINOIS FED. AID PROJECT	



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 1½ (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
- ② EXISTING PAVEMENT
- ③ 36 (900) DIAMETER METAL PLATE
- ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- ⑤ EXISTING STRUCTURE
- ⑥ FRAME AND LID (SEE NOTES)
- ⑦ CLASS PP-1 *CONCRETE
- ⑧ PROPOSED HMA SURFACE COURSE
- 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.

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.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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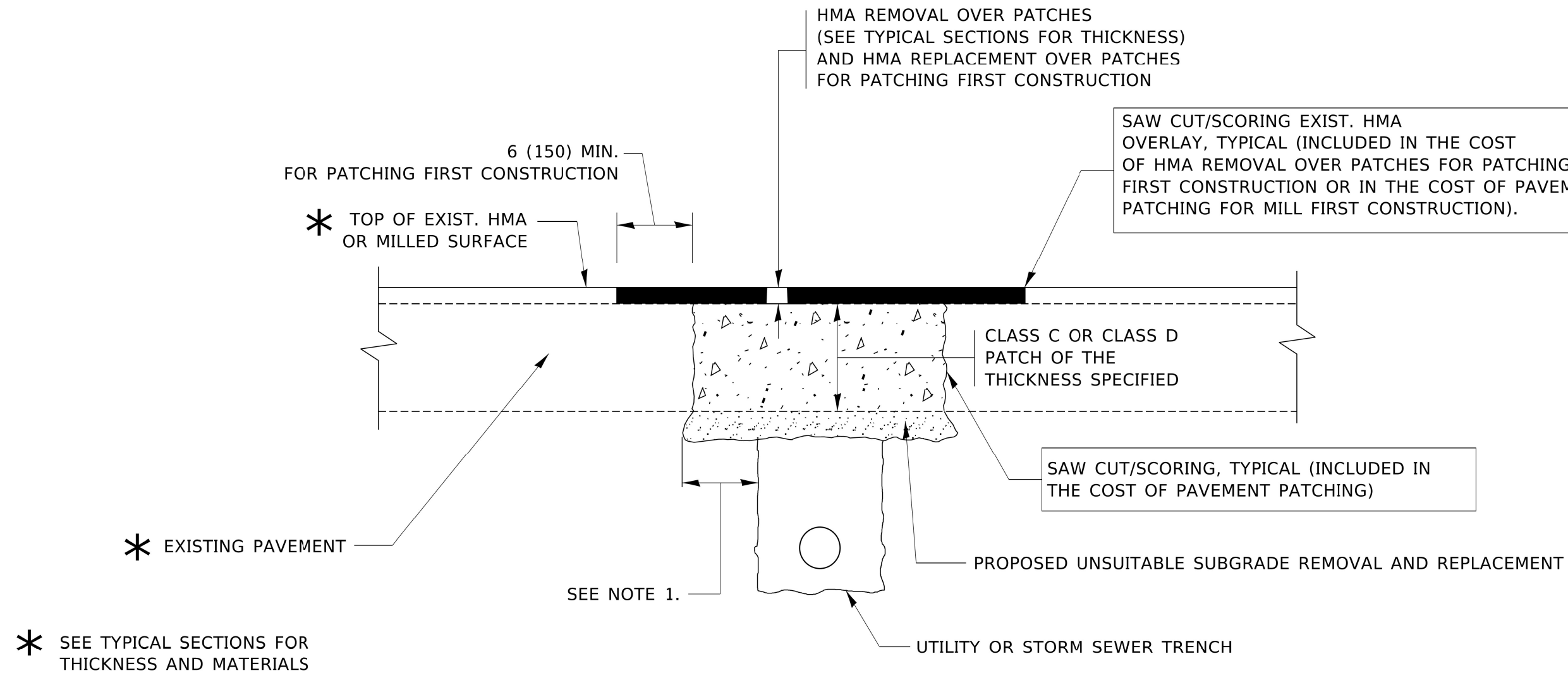
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	PLOT DATE = 3/27/2019	DATE - 10-25-94	REVISED - R. BORO 03-09-11
		DATE - 10-25-94	REVISED - R. BORO 12-06-11

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAILS FOR
FRAMES AND LIDS ADJUSTMENT WITH MILLING**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	2021-027-R5	LAKE	26	15
BD600-03 (BD-8)		CONTRACT NO. 62N65		
ILLINOIS FED. AID PROJECT				



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 4½ 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.

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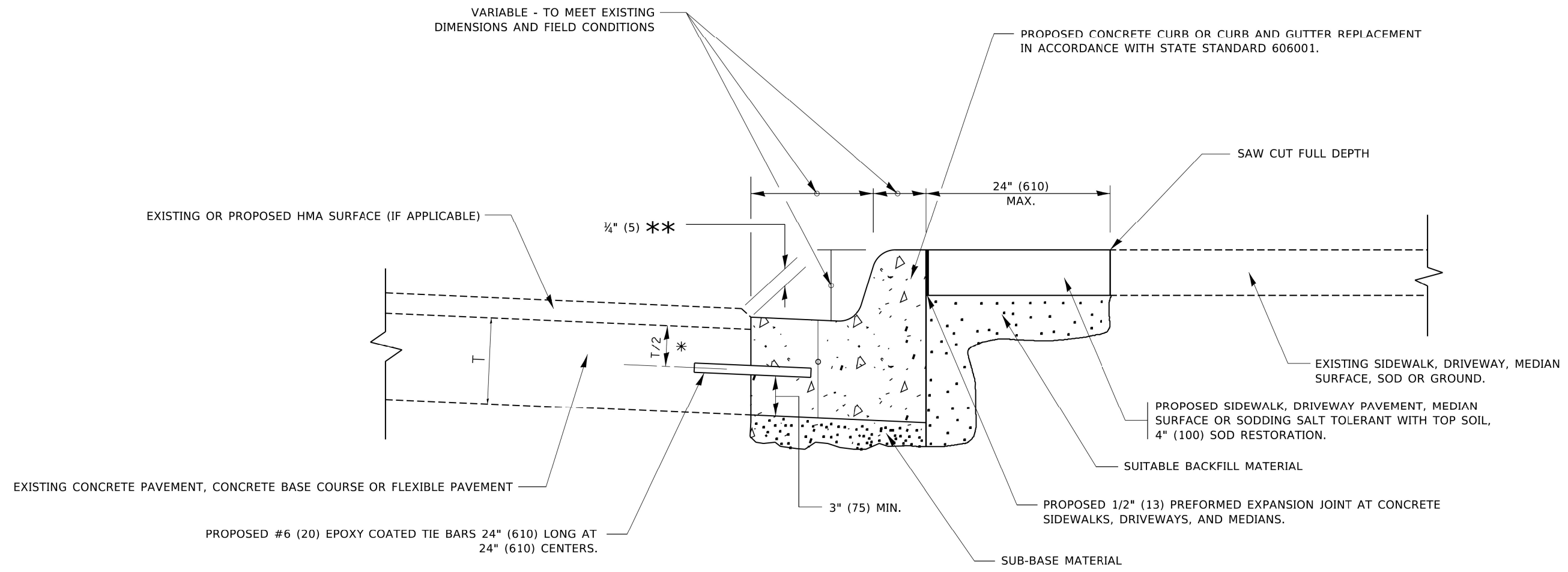
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	PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED - R. BORO 01-01-07
	PLOT DATE = 3/27/2019	DATE - 10-25-94	REVISED - R. BORO 09-04-07
			REVISED - K. ENG 10-27-08

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT PATCHING FOR
HMA SURFACED PAVEMENT**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	2021-027-R5	LAKE	26	16
BD400-04 (BD-22)			CONTRACT NO. 62N65	
ILLINOIS FED. AID PROJECT				



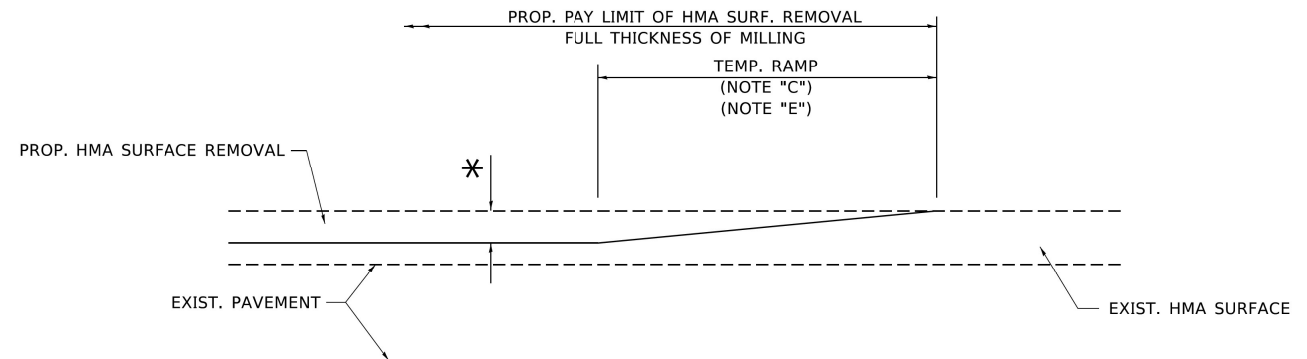
- * 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.
- ** IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

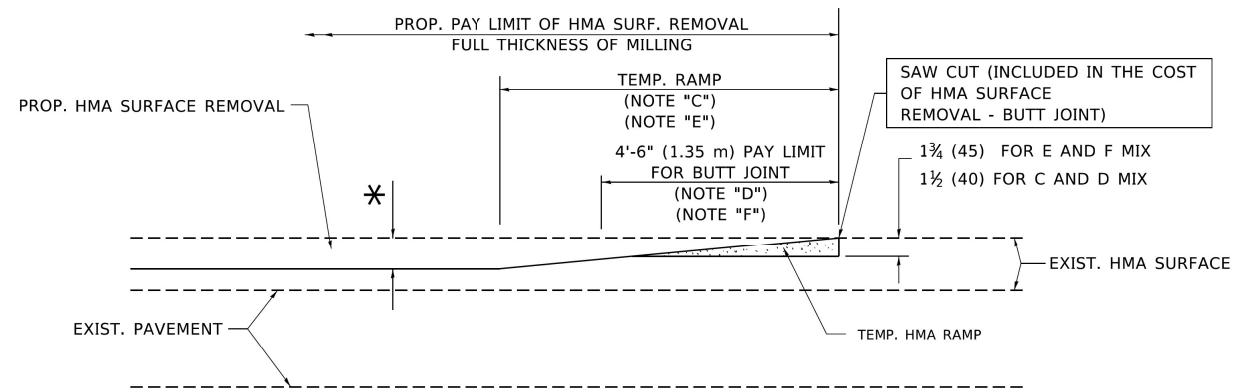
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	SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.				BD600-06 (BD-24)		

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MILLED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

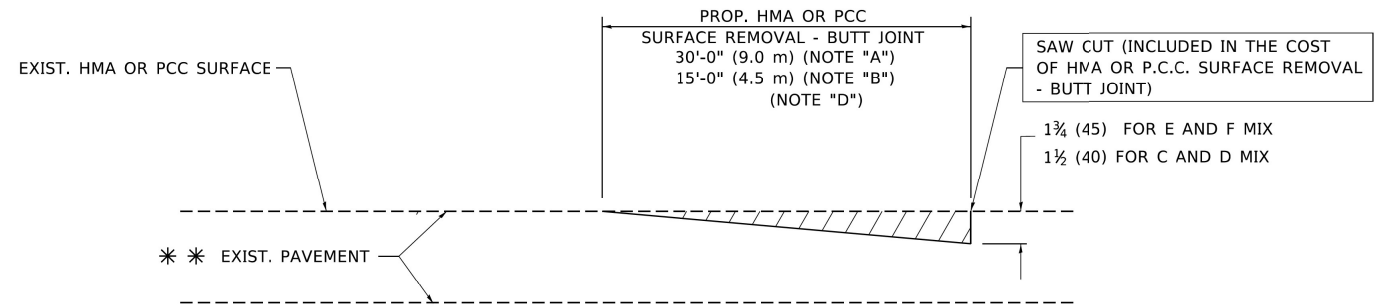
OPTION 1



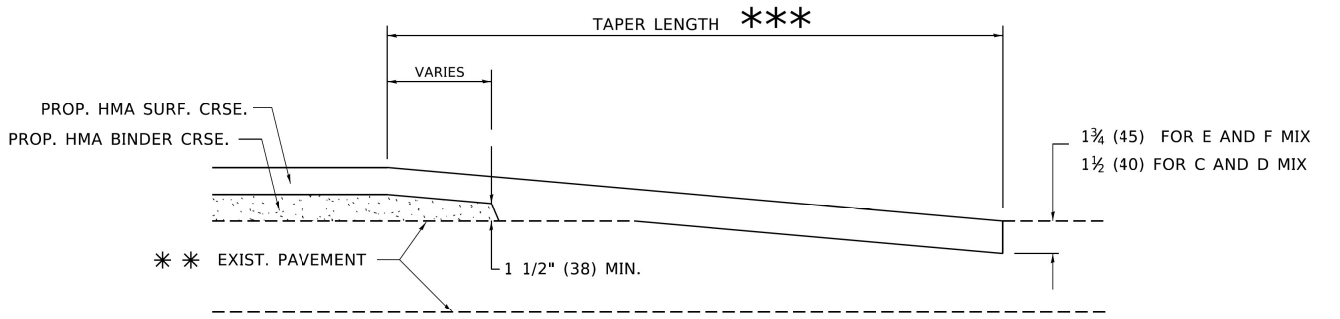
HMA CONSTRUCTED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

TYPICAL TEMPORARY RAMP



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

*** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

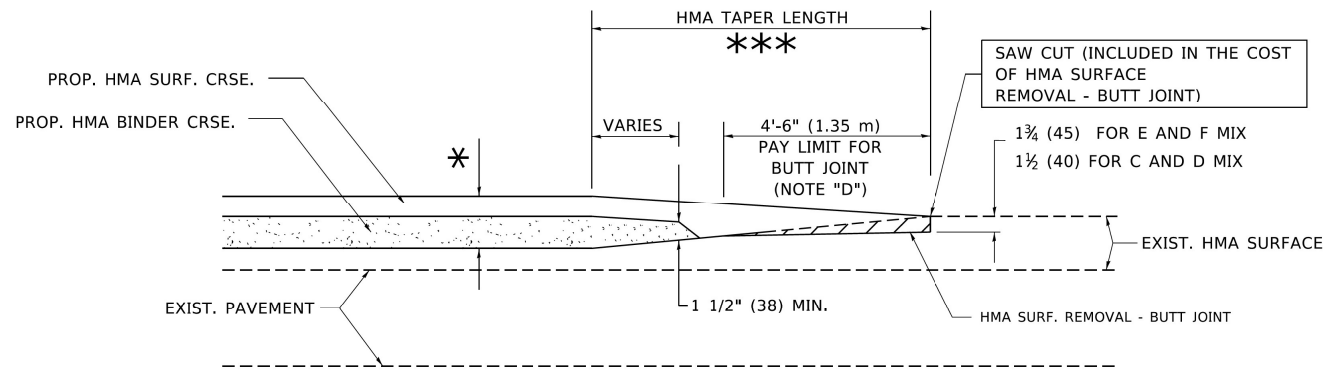
NOTES

- 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.
* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- G. SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
*** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

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.



BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

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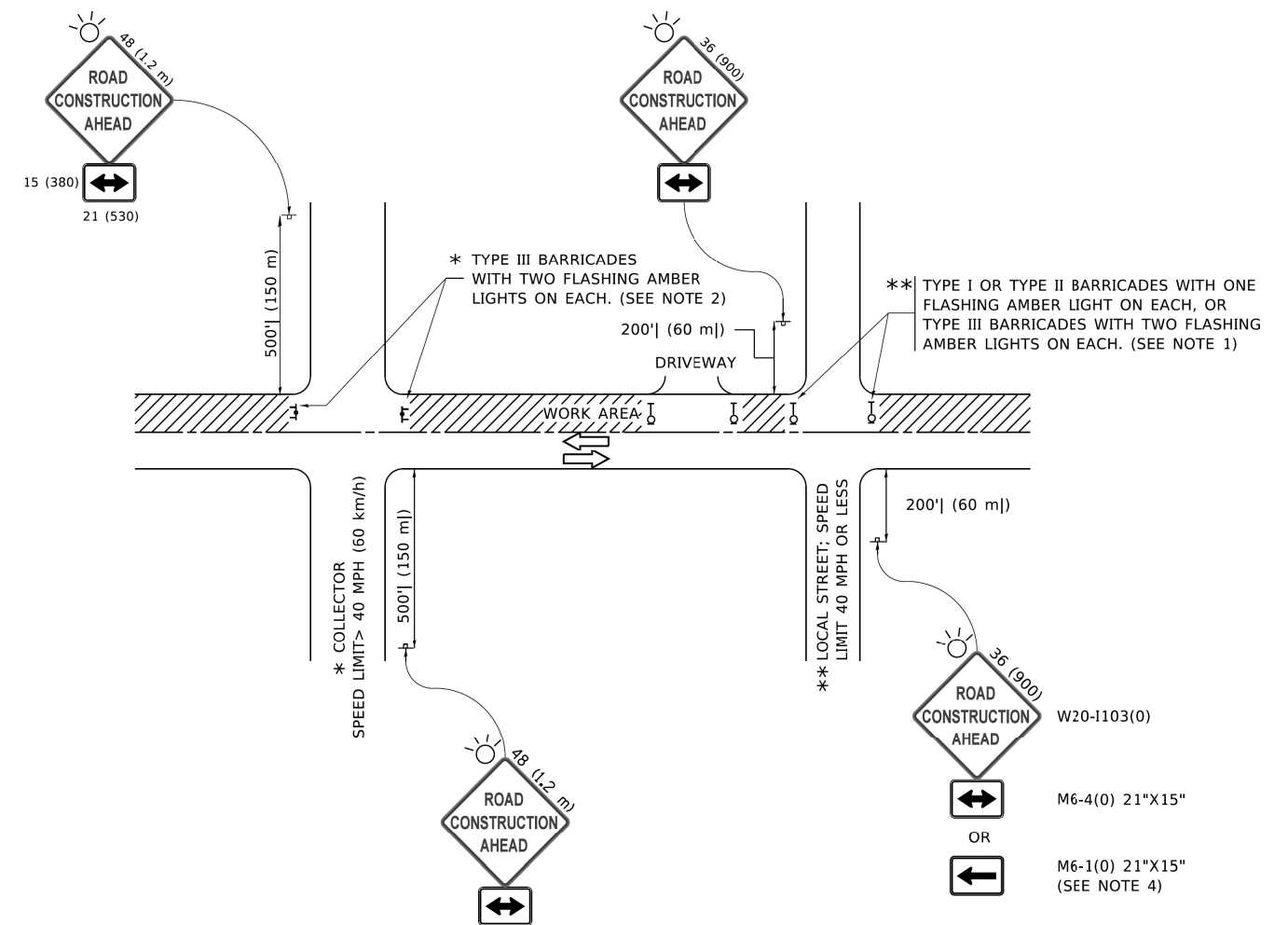
OSEH inc.
401 S CARLTON AVE
SUITE 201
WHEATON, IL 60187
WWW.OSEHINC.COM

USER NAME = footemj	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
PLOT SCALE = 50.0000' / in.	DRAWN -	REVISED - A. ABBAS 03-21-97
PLOT DATE = 3/27/2019	CHECKED -	REVISED - M. GOMEZ 04-06-01
	DATE - 06-13-90	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BUTT JOINT AND HMA TAPER DETAILS			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	2021-027-R5	LAKE	26	18
BD400-05 BD32		CONTRACT NO. 62N65		
ILLINOIS FED. AID PROJECT				



NOTES:

- 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:
 - ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - 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.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - 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.
- CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
- SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANCAARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

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WHEATON, IL 60187
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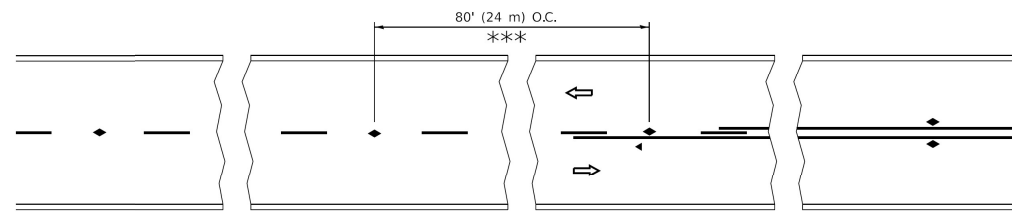
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PLOT DATE = 3/4/2019	DATE - 06-89	REVISED - A. SCHUETZE 07-01-13
		REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

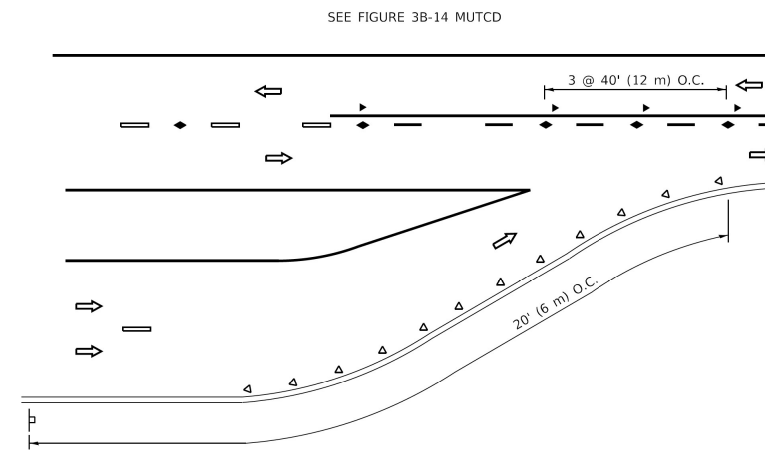
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	2021-027-RS	LAKE	26	19
TC-10			CONTRACT NO. 62N65	
ILLINOIS FED. AID PROJECT				

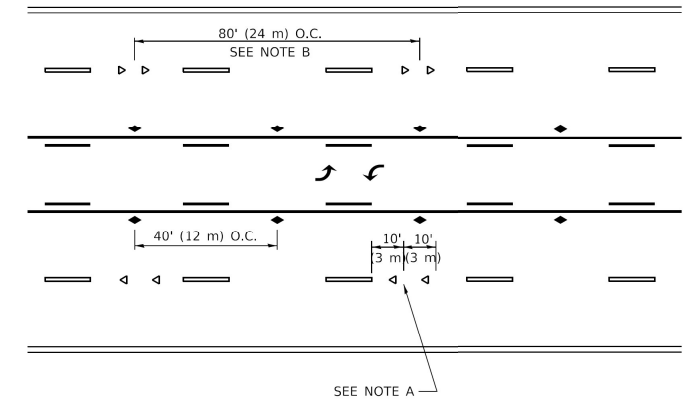


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

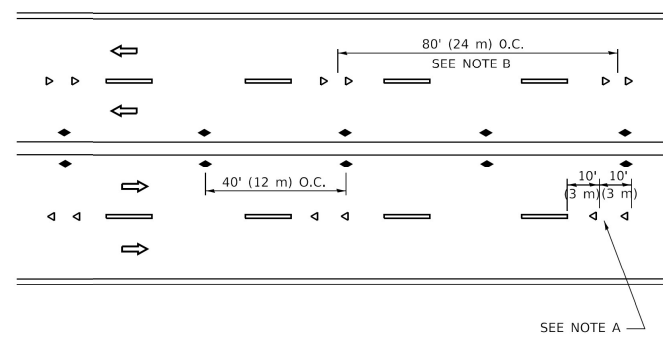
TWO-LANE/TWO-WAY



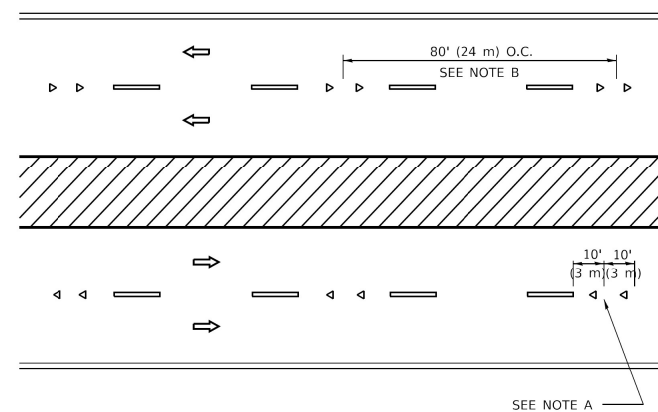
LANE REDUCTION TRANSITION



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.
4. MARKERS ARE TO BE USED ADJACENT TO BOTH SOLID WHITE LINES IN DUAL LEFT TURN LANES.

SYMBOLS

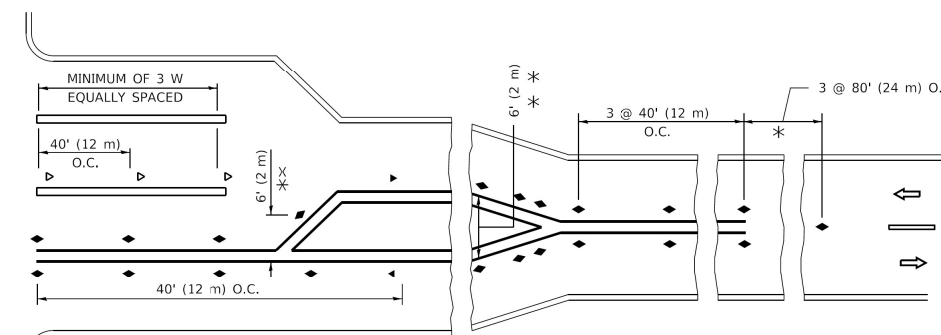
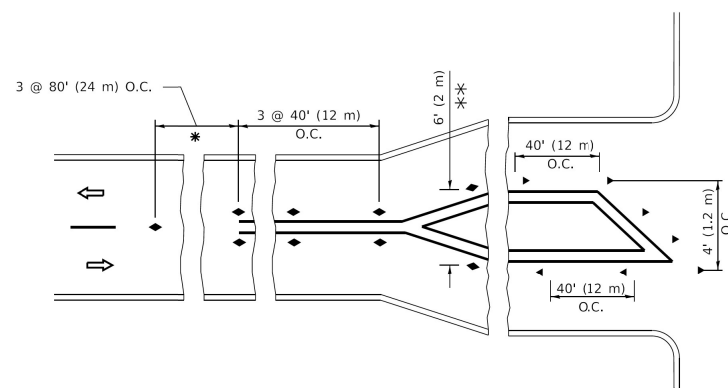
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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.

DESIGN NOTES

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



* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
 ** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

TURN LANES

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

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OSEH inc. 401 S CARLTON AVE SUITE 201 WHEATON, IL 60187 WWW.OSEHINC.COM	USER NAME = footemj	DESIGNED -	REVISED - T. RAMMACHER 03-12-99
	PLOT SCALE = 50.0000 1 / in.	DRAWN -	REVISED - T. RAMMACHER 01-06-00
	PLOT DATE = 3/4/2019	CHECKED -	REVISED - C. JUCIUS 09-09-09
		DATE -	REVISED - C. JUCIUS 07-01-13

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TYPICAL APPLICATIONS			
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			
SCALE: NONE	SHEET 1	OF 1	SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	2021-027-RS	LAKE	26	20
TC-11			CONTRACT NO. 62N65	
ILLINOIS FED. AID PROJECT				

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

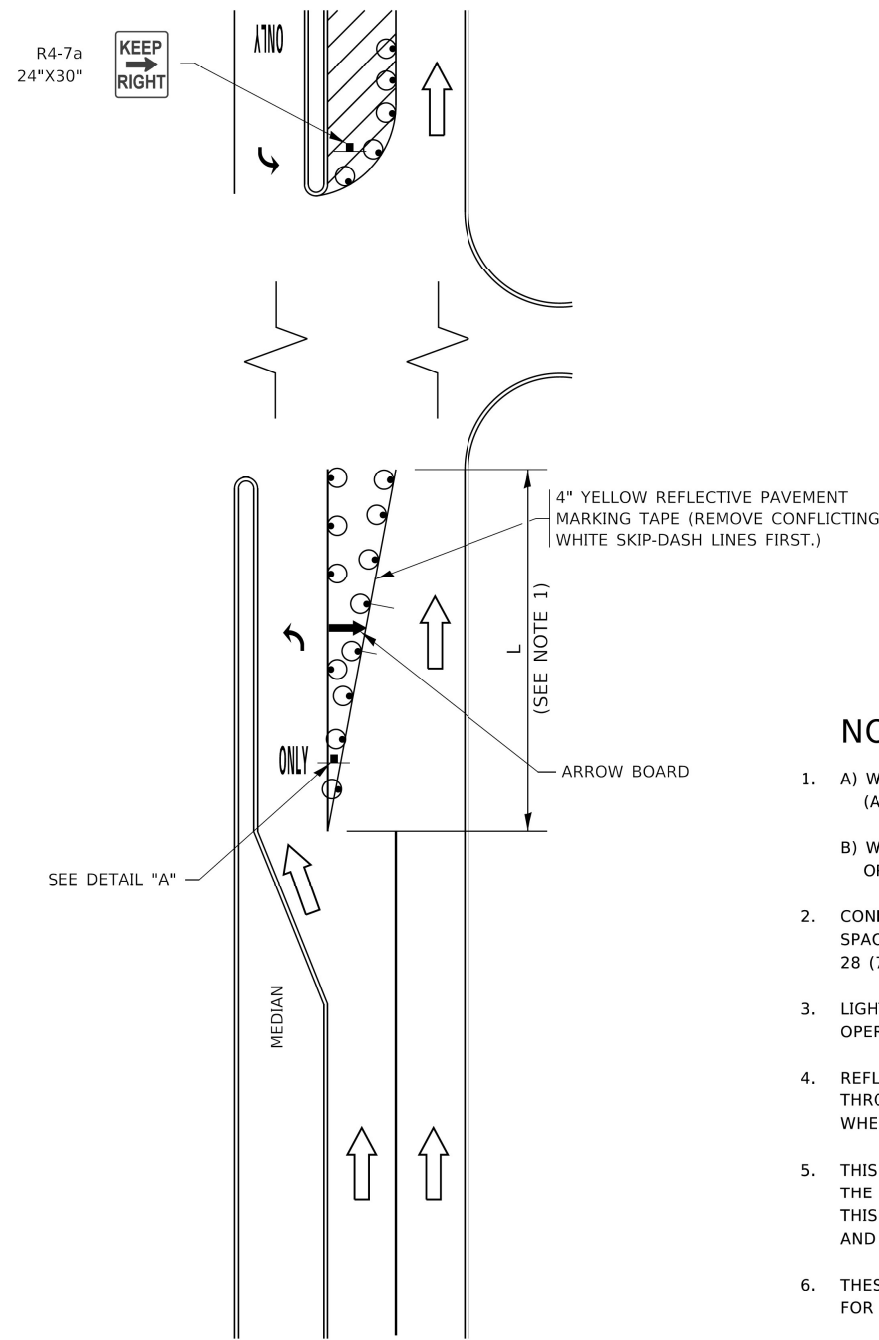


FIGURE 1

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

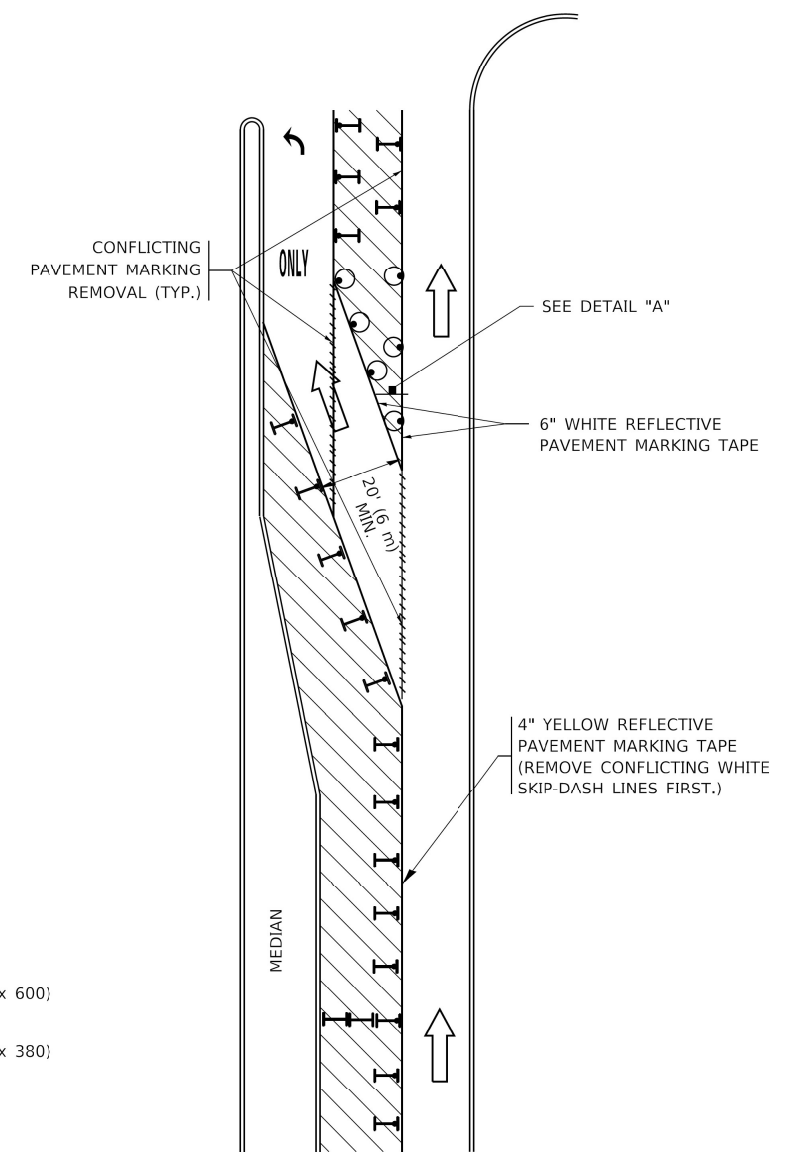


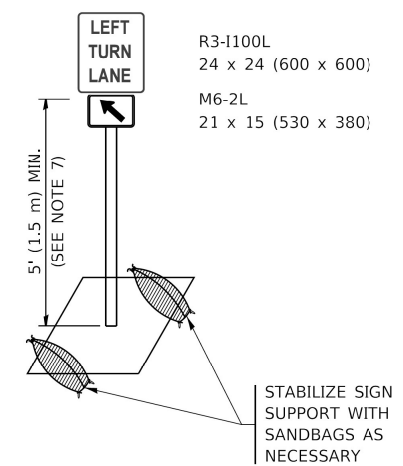
FIGURE 2

LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- ARROW BOARD
- TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT
- DRUM WITH STEADY BURN LIGHT
- SIGN ASSEMBLY
- TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

NOTES:

1. A) WHEN "L" IS \leq THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
 B) WHEN "L" IS $>$ THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-1100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH REQUIREMENTS.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

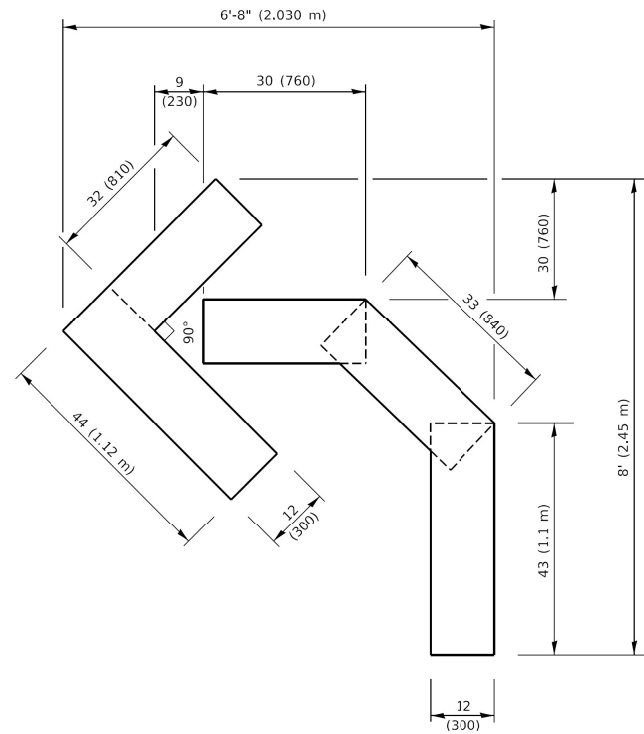


DETAIL A

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

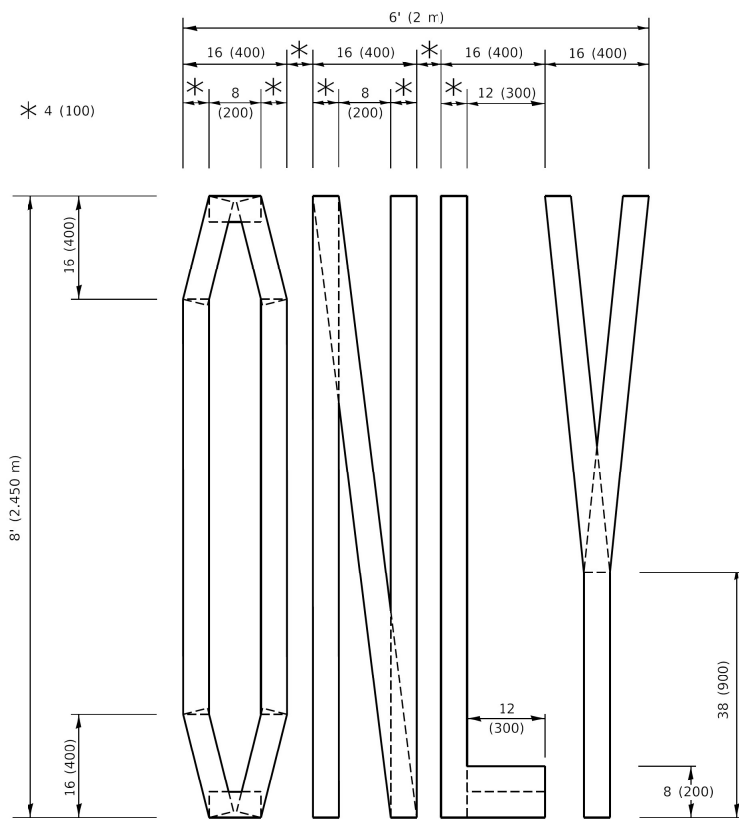
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OSEH inc. 401 S CARLTON AVE SUITE 201 WHEATON, IL 60187 WWW.OSEHINC.COM	USER NAME = footemj	DESIGNED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)			F.A.P. RTE. = 866	SECTION = 2021-027-R5	COUNTY = LAKE	TOTAL SHEETS = 26	SHEET NO. = 22
	PLOT SCALE = 50.0000' / in.	CHECKED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16		SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.	TC-14		CONTRACT NO. 62N65		
PLOT DATE = 3/4/2019	DATE - T. RAMMACHER 01-06-00	REVISED -					ILLINOIS FED. AID PROJECT					



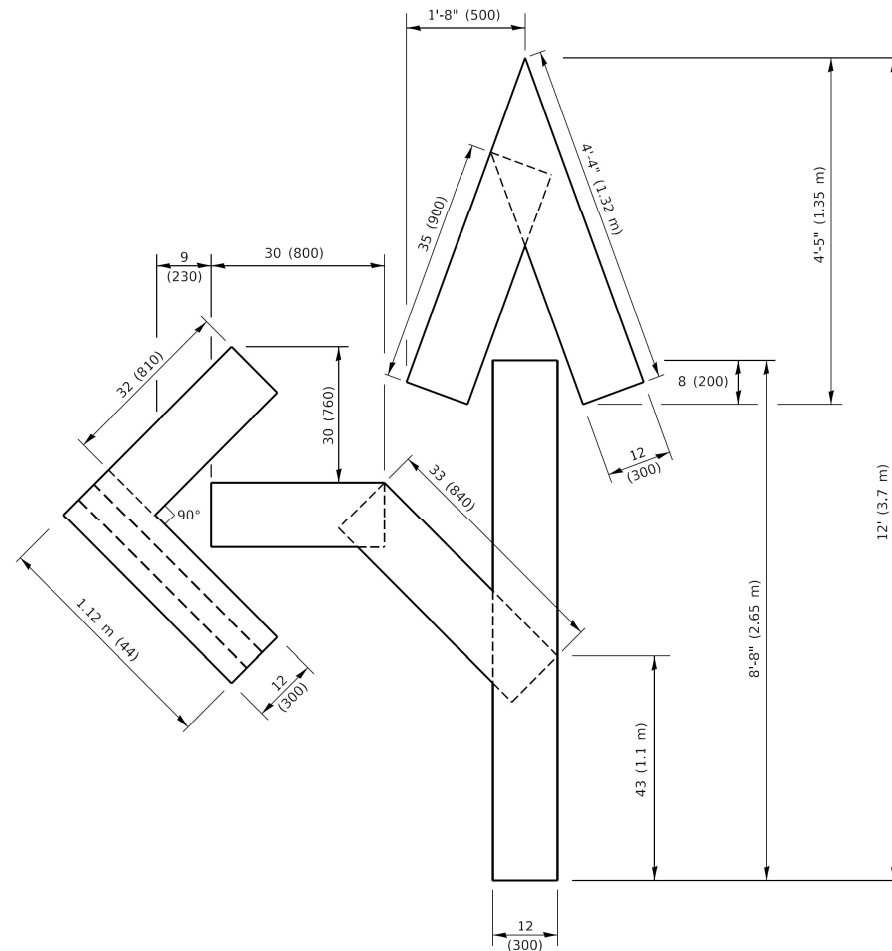
QUANTITY

4 (100) LINE = 45.5 ft. (13.9 m)
15.2 sq. ft. (1.41 sq. m)



QUANTITY

4 (100) LINE = 64.1 ft. (19.5 m)
21.4 sq. ft. (1.99 sq. m)

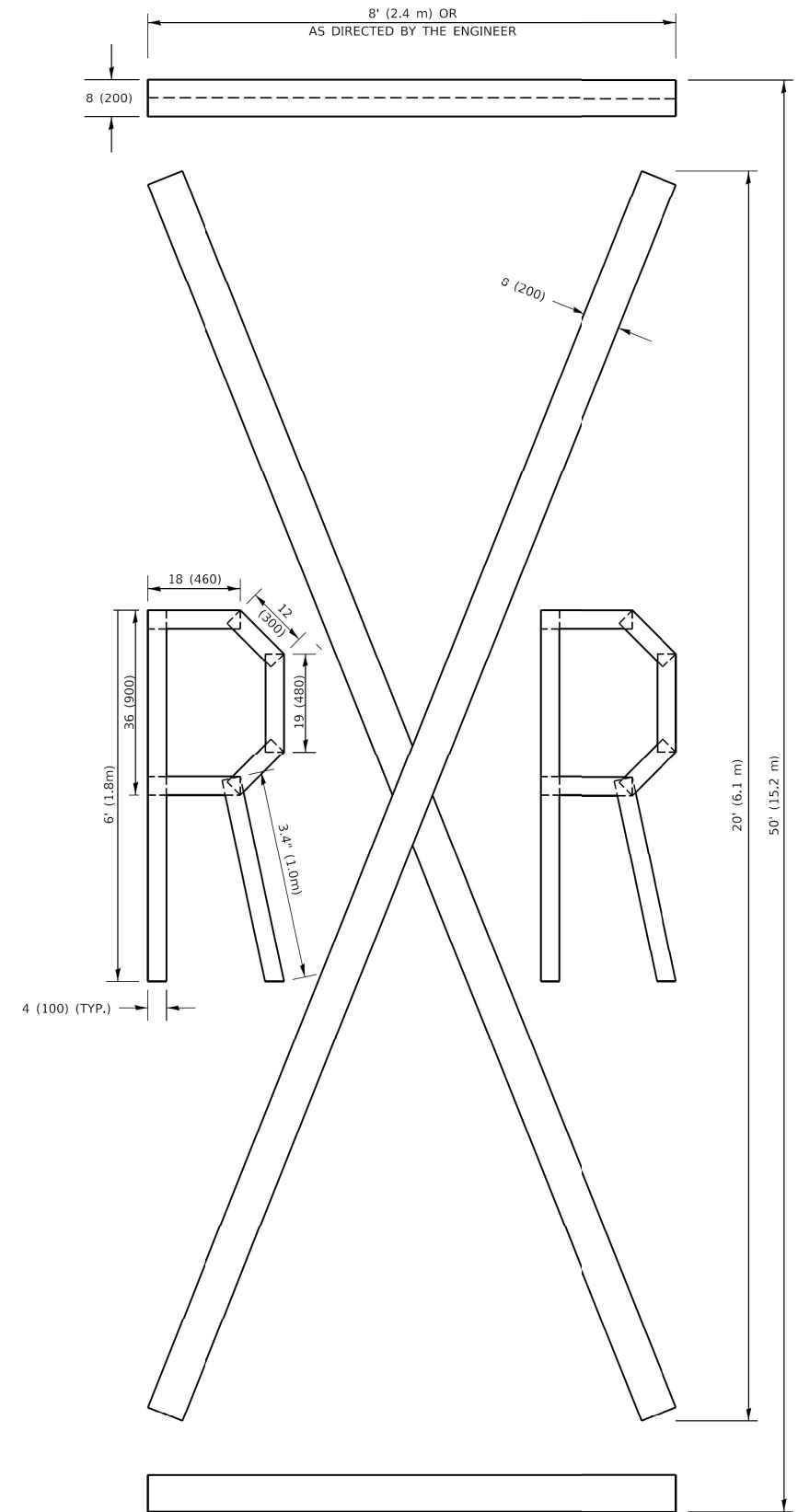


QUANTITY

4 (100) LINE = 82.5 ft. (25.1 m)
27.5 sq. ft. (2.53 sq. m)

NOTE:

ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



QUANTITY

4 (100) LINE = 225.9 ft. (68.9 m)
75.3 sq. ft. (6.99 sq. m)

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

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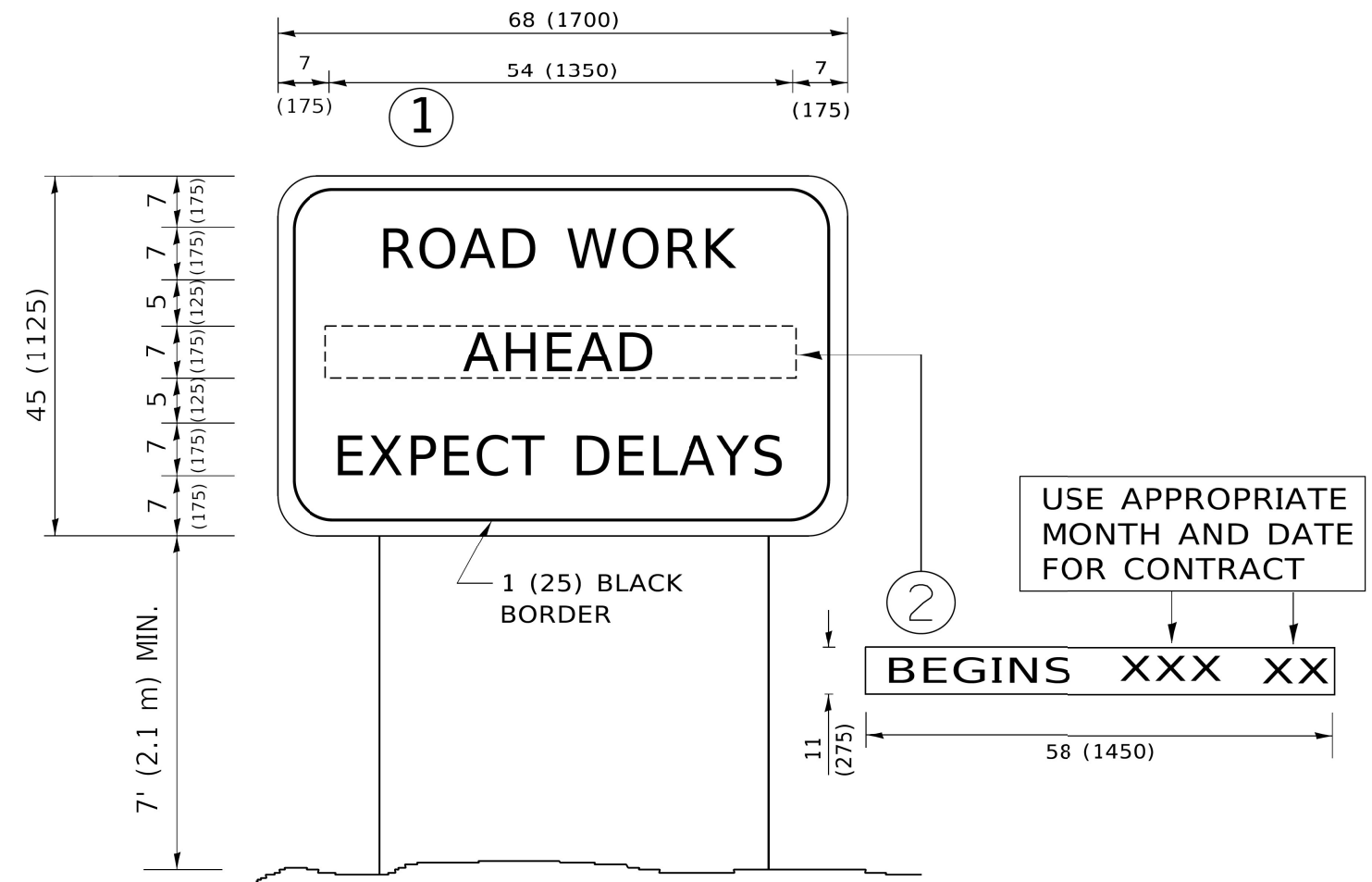
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PLOT DATE = 3/4/2019	CHECKED -	REVISED - E. GOMEZ 08-28-00
	DATE - 09-18-94	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	2021-027-RS	LAKE	26	23
TC-16			CONTRACT NO. 62N65	
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.

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OSEH inc.
401 S CARLTON AVE
SUITE 201
WHEATON, IL 60187
WWW.OSEHINC.COM

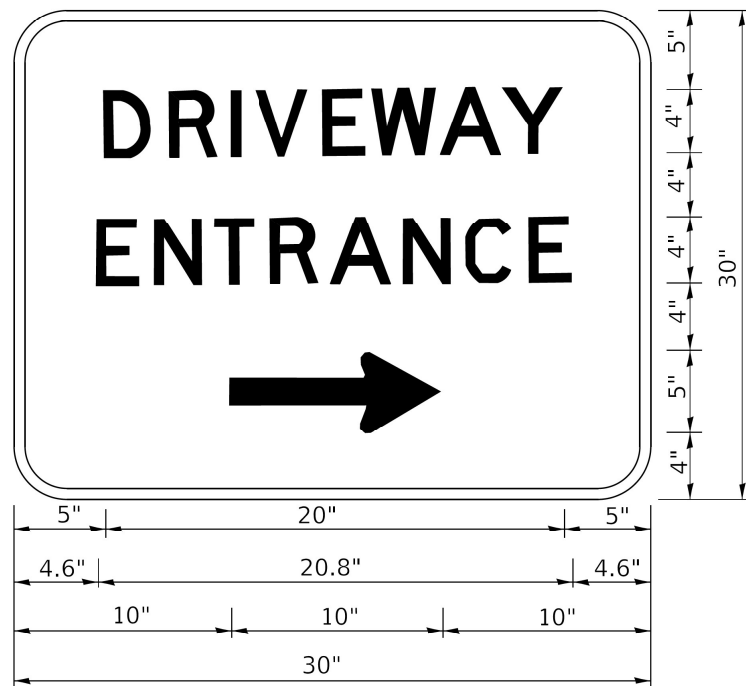
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	DRAWN -	REVISED - R. MIRS 12-11-97
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	2021-027-R5	LAKE	26	24
TC-22			CONTRACT NO. 62N65	
ILLINOIS FED. AID PROJECT				



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

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USER NAME = footemj	DESIGNED -	REVISED - C. JUCIUS 02-15-07
	DRAWN -	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/4/2019	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

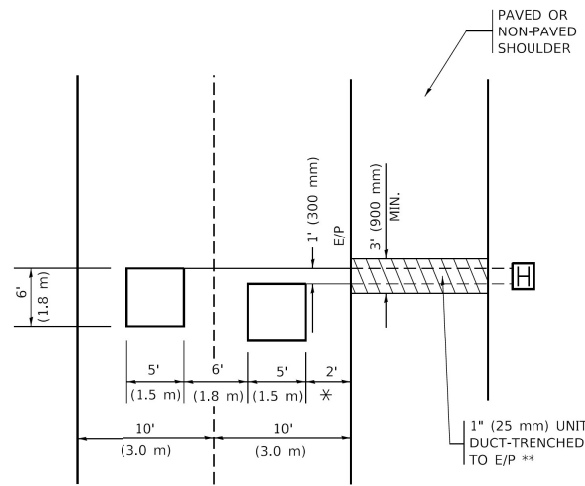
DRIVEWAY ENTRANCE SIGNING

SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	2021-027-R5	LAKE	26	25
TC-26			CONTRACT NO. 62N65	
ILLINOIS FED. AID PROJECT				

LOOPS NEXT TO SHOULDERS

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

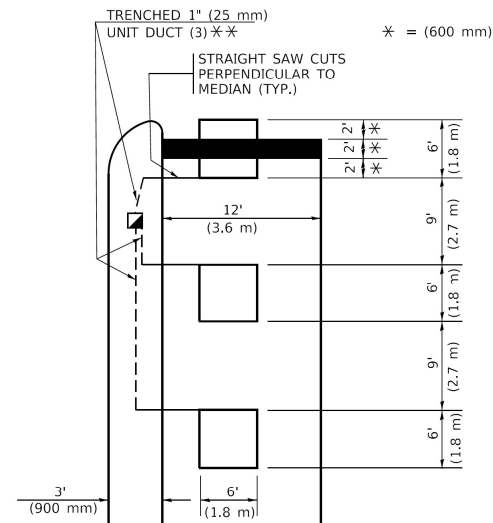


* = (600 mm)

** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

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.

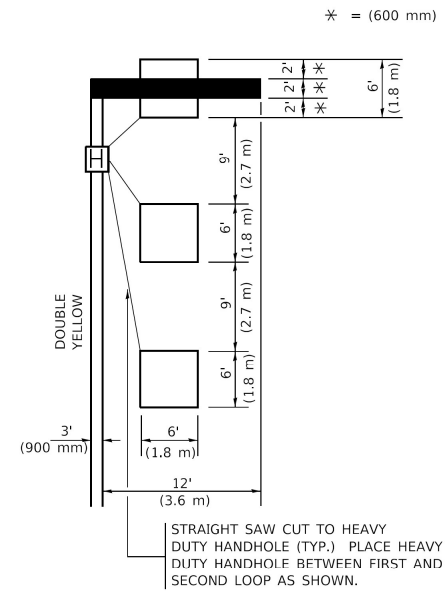


* = (600 mm)

** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

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

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



* = (600 mm)

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

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 SEPARATELY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- * ONE DIMENSION OF ALL 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.

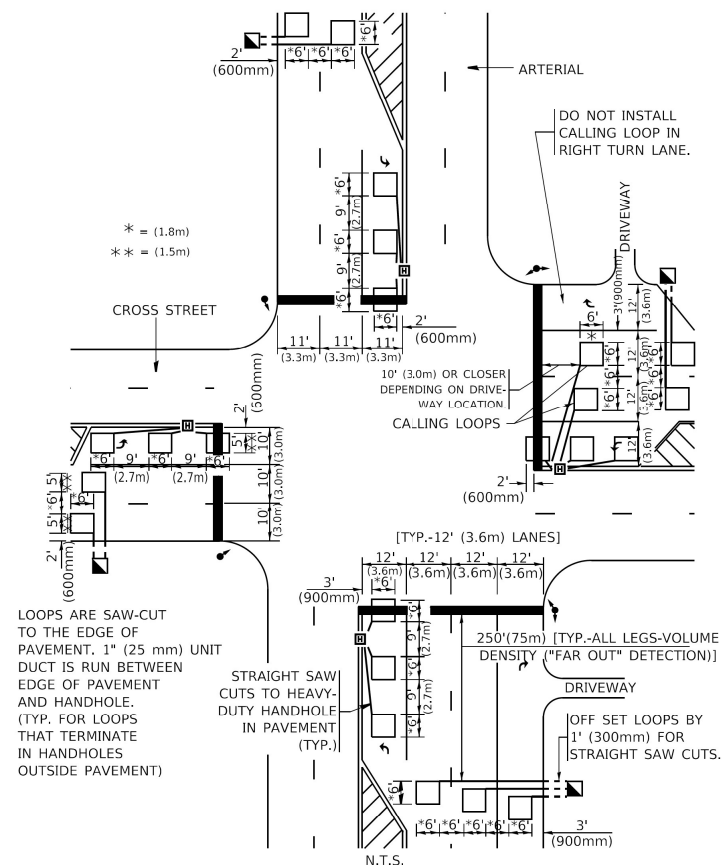
"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0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

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



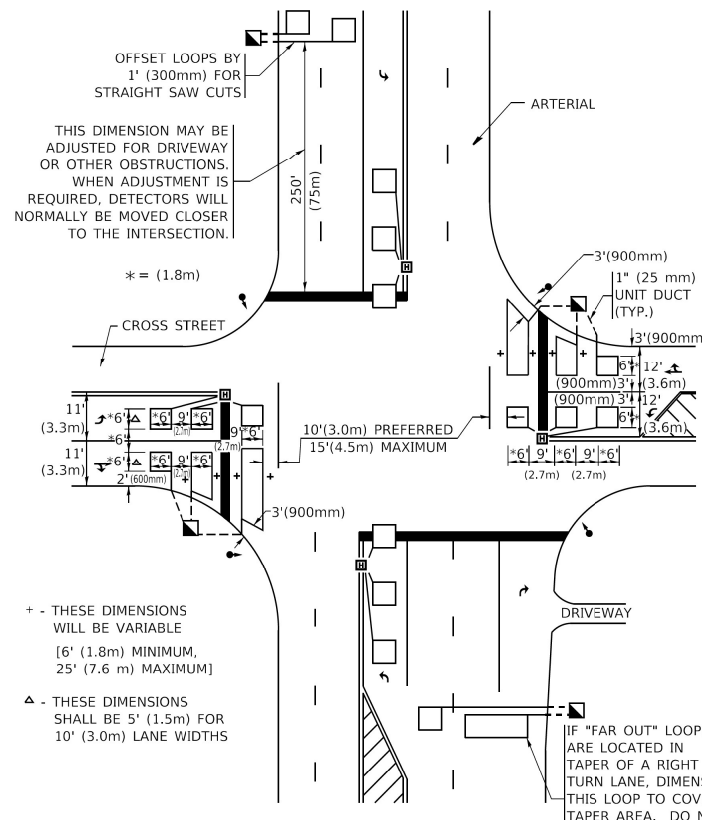
* = (1.8m)
 ** = (1.5m)

LOOPS ARE SAW-CUT TO THE EDGE OF PAVEMENT. 1" (25 mm) UNIT DUCT IS RUN BETWEEN EDGE OF PAVEMENT AND HANDHOLE. (TYP. FOR LOOPS THAT TERMINATE IN HANDHOLES OUTSIDE PAVEMENT)

STRAIGHT SAW CUTS TO HEAVY-DUTY HANDHOLE IN PAVEMENT (TYP.)

DETAIL 1
 N.T.S.

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



THIS DIMENSION MAY BE ADJUSTED FOR DRIVEWAY OR OTHER OBSTRUCTIONS. WHEN ADJUSTMENT IS REQUIRED, DETECTORS WILL NORMALLY BE MOVED CLOSER TO THE INTERSECTION.

* = (1.8m)

+ - THESE DIMENSIONS WILL BE VARIABLE [6' (1.8m) MINIMUM, 25' (7.6 m) MAXIMUM]

△ - THESE DIMENSIONS SHALL BE 5' (1.5m) FOR 10' (3.0m) LANE WIDTHS

IF "FAR OUT" LOOPS ARE LOCATED IN TAPER OF A RIGHT TURN LANE, DIMENSION THIS LOOP TO COVER TAPER AREA. DO NOT COVER THE LEFT TURN LANE OR LEFT TURN LANE TAPER.

DETAIL 2
 N.T.S.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 - DETECTOR LOOP INSTALLATION
DETAILS FOR ROADWAY RESURFACING

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	2021-027-R5	LAKE	26	26
TS-07		CONTRACT NO. 62N65		
ILLINOIS / FED. AID PROJECT				

USER NAME = footemj	DESIGNED -	REVISED -
PLOT SCALE = 50.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/4/2019	CHECKED - R.K.F.	REVISED -
	DATE -	REVISED -