

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
334	2020-075-R5	MCHENRY	28	1
		ILLINOIS	CONTRACT NO. 62L53	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE IMPROVEMENT IS LOCATED IN THE VILLAGES OF RICHMOND

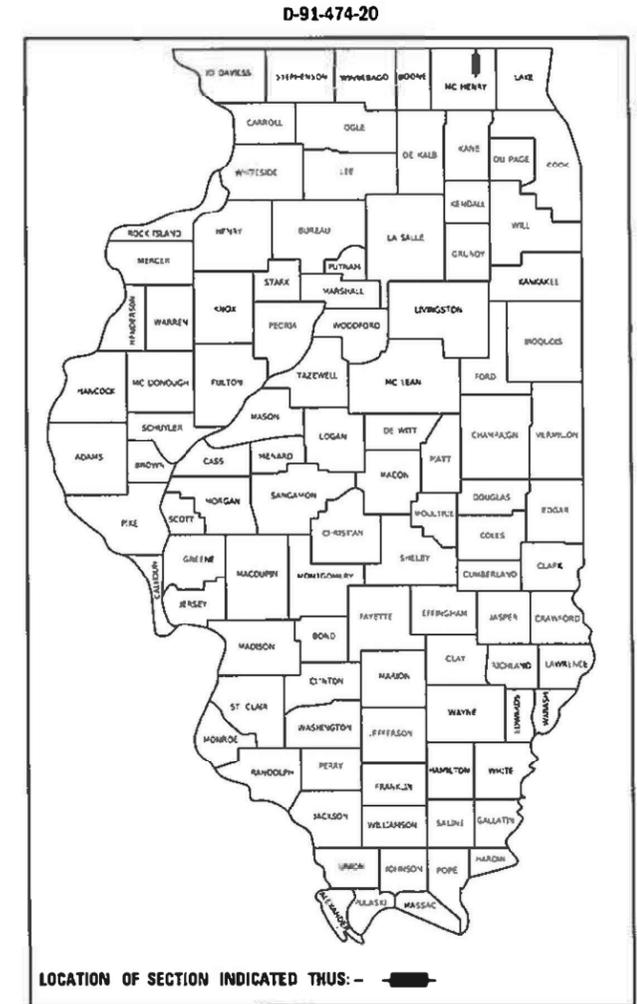
TRAFFIC DATA

ADT (2019) = 7,850
POSTED SPEED LIMIT = 35-45 MPH

**PROPOSED
HIGHWAY PLANS**

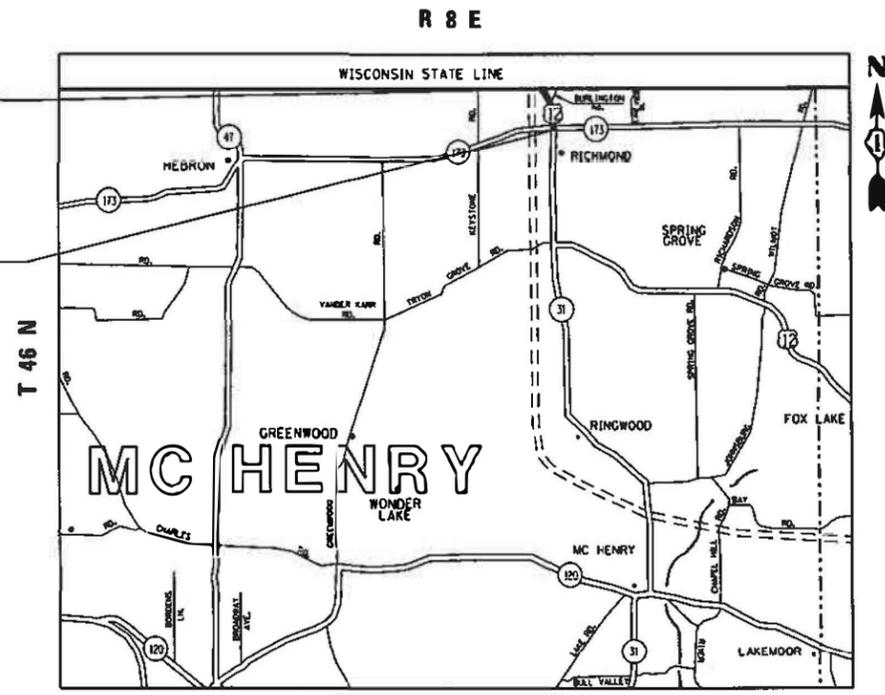
FAP ROUTE 334: US 12 (MAIN ST.)
WISCONSIN STATE LINE TO IL 173 (KENOSHA ST.)
SECTION: 2020-075-R5
PROJECT: NHPP-F3AK(724)
SMART OVERLAY; ADA IMPROVEMENTS
MCHENRY COUNTY

C-91-272-20

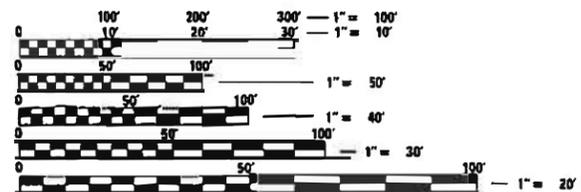


PROJECT ENDS:
WISCONSIN STATE LINE
STATION 66 + 56

PROJECT BEGINS:
IL 173 (KENOSHA STREET)
STATION 8 + 46



RICHMOND TOWNSHIP



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

PROJECT MANAGER: J. ALAIN MIDY (847) 221-3056

GROSS LENGTH & NET LENGTH = 5,800 FT. = 1.1 MILES

CONTRACT NO. 62L53

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED *December 9, 2020*

Anthony J. D'Amico
REGIONAL ENGINEER

January 29, 2021

Scott A. Etkin
ENGINEER OF DESIGN AND ENVIRONMENT

January 29, 2021

James J. Guerin
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

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2.	INDEX OF SHEETS, HIGHWAY STANDARDS, AND GENERAL NOTES
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6.	TYPICAL SECTIONS
7 - 11.	ROADWAY AND PAVEMENT MARKING PLANS
12 - 14.	PROPOSED SIDEWALK RAMP DETAILS
15.	CURB RAMP DETAIL PD-02
16. - 17.	HANDRAIL DETAILS
18.	DETECTOR LOOP REPLACEMENT PLAN
19.	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING (BD-08)
20.	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD-22)
21.	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT (BD-24)
22.	BUTT JOINT AND HMA TAPER DETAILS (BD-32)
23.	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10)
24.	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) (TC-11)
25.	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)
26.	SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS (TC-16)
27.	ARTERIAL ROAD INFORMATION SIGN (TC-22)
28.	DISTRICT ONE DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING (TS-07)

STATE HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424016-05	MID-BLOCK CURB RAMPS FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
604001-05	FRAME AND LIDS, TYPE 1
604091-04	FRAME AND GRATE, TYPE 24
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
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
701502-09	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES

8. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.
9. ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
10. DRAINAGE ADJUSTMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
11. FRAME AND GRATES/LIDS ADJUSTMENT OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS SHALL BE DONE BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.
12. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
13. THE RESIDENT ENGINEER SHALL CONTACT WALTER CZARNY, ARTERIAL TRAFFIC FIELD ENGINEER VIA E-MAIL AT WALTER.CZARNY@ILLINOIS.GOV, A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
14. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
15. THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED OR PLATED STRUCTURES ACCORDING TO THE STATION AND OFFSET LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.
16. 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.
17. BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT) ACCORDING TO THE "BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
18. WHEN THE MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES (40mm) WHERE THE SPEED LIMIT IS 40 MPH (80 km/h) OR LESS AND 1 INCH (25 mm) WHERE THE SPEED LIMIT IS GREATER THAN 40 MPH (80 km/h). WITH WRITTEN APPROVAL OF THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES (75 mm) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H) OR A NOTCHED LONGITUDINAL WEDGE IS USED.
19. PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES.
20. UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURES AS DETERMINED AND APPROVED IN WRITING BY THE ENGINEER OR AS PROVIDED FOR IN THE CONTRACT SPECIFICATIONS, OVERNIGHT LANE CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION PROJECTS INVOLVING DAYTIME MILLING AND RESURFACING OPERATIONS AND CLASS D PATCHING.
21. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
22. CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS AT ALL TIMES DURING CONSTRUCTION.

GENERAL NOTES

1. 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 HOUR NOTIFICATION IS REQUIRED.
2. TEN (10) FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURBS AND GUTTER AND MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.
3. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND THE VILLAGE OF RICHMOND.
4. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
5. ANY PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS OBLITERATED BY MILLING AND RESURFACING OPERATIONS ON SIDE STREETS AND ENTRANCES SHALL BE REPLACED AND PAID FOR IN KIND.
6. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.
7. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

REV-SEP

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	DRAWN -	REVISIED -				334	2020-075-R5	MCHENRY	28	2	
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISIED -			CONTRACT NO. 62L53					
	PLOT DATE = 12/9/2020	DATE -	REVISIED -			ILLINOIS FED. AID PROJECT					
						SCALE:	SHEET 1 OF 1 SHEETS	STA.	TO STA.		

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		80% FED 20% STATE	100% STATE			
			0005	0005				
20200100	EARTH EXCAVATION	CU YD	22	22				
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	1.5	1.5				
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	100	100				
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	2	2				
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	2	2				
25200110	SODDING, SALT TOLERANT	SO YD	100	100				
25200200	SUPPLEMENTAL WATERING	UNIT	2	2				
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	10841	10841				
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	37	37				
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	157	157				
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	2025	2025				
42001300	PROTECTIVE COAT	SO YD	267	267				
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	1440	1440				
42400800	DETECTABLE WARNINGS	SO FT	90	90				

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		80% FED 20% STATE	100% STATE			
			0005	0005				
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SO YD	24063	24063				
44000600	SIDEWALK REMOVAL	SO FT	1440	1440				
44201815	CLASS D PATCHES, TYPE II, 14 INCH	SO YD	275	275				
44201819	CLASS D PATCHES, TYPE III, 14 INCH	SO YD	100	100				
44201821	CLASS D PATCHES, TYPE IV, 14 INCH	SO YD	50	50				
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	90	90				
50300225	CONCRETE STRUCTURES	CU YD	3	3				
50901760	PIPE HANDRAIL	FOOT	20	20				
60250200	CATCH BASINS TO BE ADJUSTED	EACH	2	2				
60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	1	1				
60262700	INLETS TO BE RECONSTRUCTED	EACH	3	3				
60266600	VALVE BOXES TO BE ADJUSTED	EACH	1	1				
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	7	7				
60300410	VALVE BOX FRAMES TO BE ADJUSTED WITH NEW FRAMES	EACH	2	2				
60404950	FRAMES AND GRATES, TYPE 24	EACH	7	7				

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT		80% FED 20% STATE	100% STATE					80% FED 20% STATE		100% STATE					
			0005	0005					0005	0005							
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	11	11					70300100	SHORT TERM PAVEMENT MARKING	FOOT	5295	5295				
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	25	25					70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	1765	1765				
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2					70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SO FT	194	194				
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1	1					70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	23859	23859				
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	LSUM	1	1					70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	1507	1507				
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	3	3					70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	135	135				
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6					70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	171	171				
67100100	MOBILIZATION	L SUM	1	1					70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	194	194				
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1				* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	194	194					
70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	L SUM	1	1				* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	23859	23859					
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1				* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1507	1507					
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1				* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	135	135					
									* SPECIALTY ITEMS								

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	2020-075-RS	MCHENRY	28	4
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 62L53	

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		80% FED 20% STATE	100% STATE			
			0005	0005				
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE	FOOT	171	171				
	12"							
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE	FOOT	194	194				
	24"							
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	310	310				
78300200	RAISED REFLECTIVE PAVEMENT MARKER	EACH	310	310				
	REMOVAL							
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	38	38				
X0320050	CONSTRUCTION LAYOUT (SPECIAL)	L SUM	1	1				
X0549200	CLEANING PAVED DITCH	FOOT	528	528				
X2020110	GRADING AND SHAPING SHOULDERS	UNIT	66	66				
△ X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	100		100			
X6030310	FRAMES AND LIDS TO BE ADJUSTED	EACH	11	11				
	(SPECIAL)							
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SO FT	12121	12121				
Z0004562	COMBINATION CONCRETE CURB AND GUTTER	FOOT	320	320				
	REMOVAL AND REPLACEMENT							
Z0012450	CONCRETE STEPS	CU YD	1	1				

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		80% FED 20% STATE	100% STATE			
			0005	0005				
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	10		10			
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	51.4	51.4				
Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	8800	8800				
* SPECIALTY ITEMS								
△ NON-PARTICIPATING ITEMS								

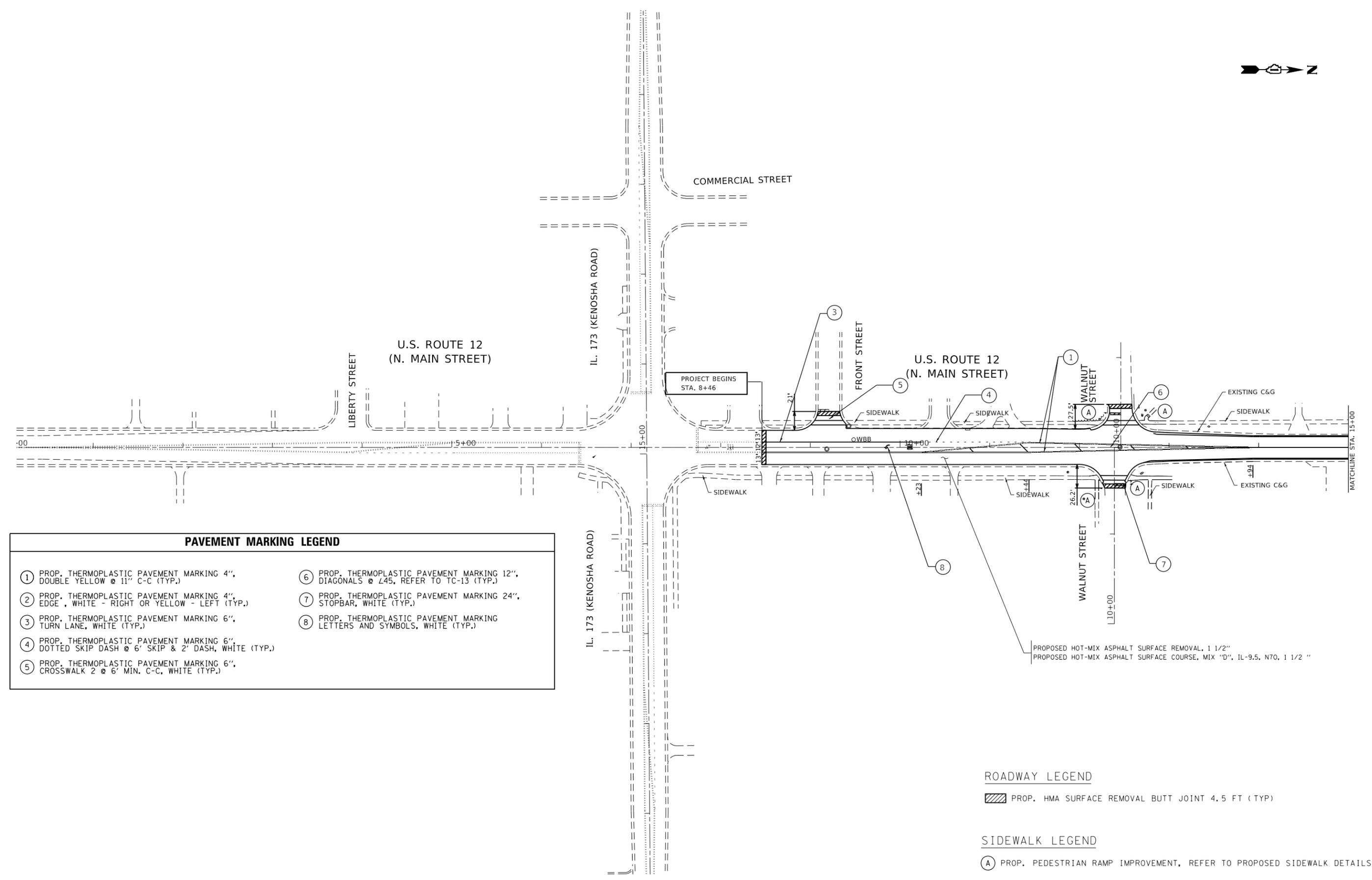
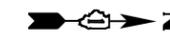
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		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	2020-075-RS	MCHENRY	28	5
CONTRACT NO. 62L53				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

REV-SEP



PAVEMENT MARKING LEGEND

- | | |
|---|---|
| ① PROP. THERMOPLASTIC PAVEMENT MARKING 4", DOUBLE YELLOW @ 11" C-C (TYP.) | ⑥ PROP. THERMOPLASTIC PAVEMENT MARKING 12", DIAGONALS @ 45, REFER TO TC-13 (TYP.) |
| ② PROP. THERMOPLASTIC PAVEMENT MARKING 4", EDGE, WHITE - RIGHT OR YELLOW - LEFT (TYP.) | ⑦ PROP. THERMOPLASTIC PAVEMENT MARKING 24", STOPBAR, WHITE (TYP.) |
| ③ PROP. THERMOPLASTIC PAVEMENT MARKING 6", TURN LANE, WHITE (TYP.) | ⑧ PROP. THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS, WHITE (TYP.) |
| ④ PROP. THERMOPLASTIC PAVEMENT MARKING 6", DOTTED SKIP DASH @ 6' SKIP & 2' DASH, WHITE (TYP.) | |
| ⑤ PROP. THERMOPLASTIC PAVEMENT MARKING 6", CROSSWALK 2 @ 6' MIN. C-C, WHITE (TYP.) | |

ROADWAY LEGEND

PROP. HMA SURFACE REMOVAL BUTT JOINT 4.5 FT (TYP)

SIDEWALK LEGEND

PROP. PEDESTRIAN RAMP IMPROVEMENT, REFER TO PROPOSED SIDEWALK DETAILS

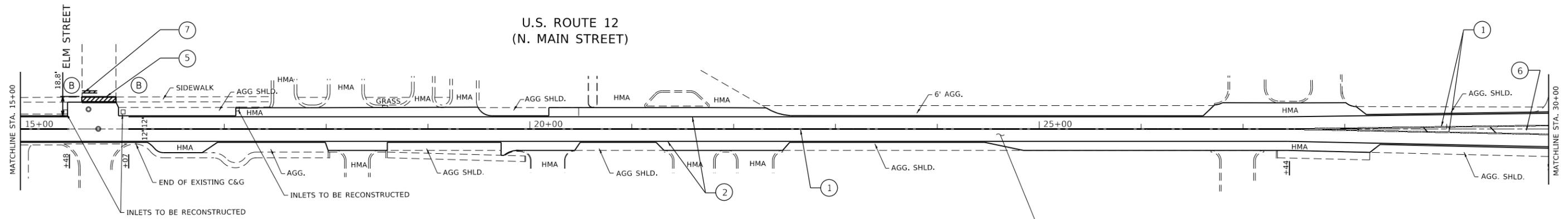
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PLOT DATE = 12/9/2020	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROADWAY PLAN			
US 12 (MAIN STREET) FROM WISCONSIN STATE LINE TO IL 173			
SCALE: 1" = 50'	SHEET 1	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	2020-075-R5	MCHENRY	28	7
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62L53	



PAVEMENT MARKING LEGEND	
① PROP. THERMOPLASTIC PAVEMENT MARKING 4", DOUBLE YELLOW @ 11" C-C (TYP.)	⑥ PROP. THERMOPLASTIC PAVEMENT MARKING 12", DIAGONALS @ 45, REFER TO TC-13 (TYP.)
② PROP. THERMOPLASTIC PAVEMENT MARKING 4", EDGE, WHITE - RIGHT OR YELLOW - LEFT (TYP.)	⑦ PROP. THERMOPLASTIC PAVEMENT MARKING 24", STOPBAR, WHITE (TYP.)
③ PROP. THERMOPLASTIC PAVEMENT MARKING 6", TURN LANE, WHITE (TYP.)	⑧ PROP. THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS, WHITE (TYP.)
④ PROP. THERMOPLASTIC PAVEMENT MARKING 6", DOTTED SKIP DASH @ 6' SKIP & 2' DASH, WHITE (TYP.)	
⑤ PROP. THERMOPLASTIC PAVEMENT MARKING 6", CROSSWALK 2 @ 6' MIN. C-C, WHITE (TYP.)	

PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"
 PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70, 1 1/2"

ROADWAY LEGEND

PROP. HMA SURFACE REMOVAL BUTT JOINT 4.5 FT (TYP)

SIDEWALK LEGEND

PROP. PEDESTRIAN RAMP IMPROVEMENT, REFER TO PD-02A

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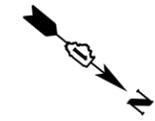
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PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 12/9/2020	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN
 US 12 (MAIN STREET) FROM WISCONSIN STATE LINE TO IL 173**

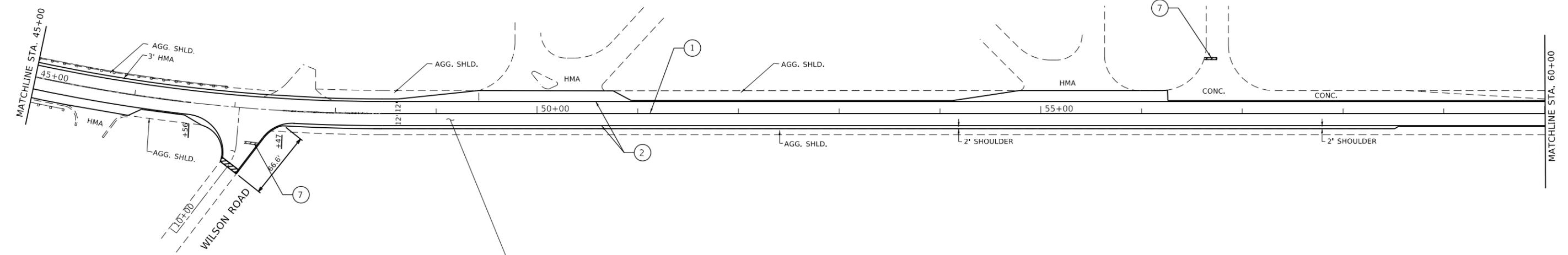
SCALE: 1" = 50' SHEET 2 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	2020-075-R5	MCHENRY	28	8
CONTRACT NO. 62L53				
ILLINOIS FED. AID PROJECT				



U.S. ROUTE 12
(N. MAIN STREET)

WEIGH STATION



PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"
PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70, 1 1/2 "

PAVEMENT MARKING LEGEND

- | | |
|---|---|
| ① PROP. THERMOPLASTIC PAVEMENT MARKING 4", DOUBLE YELLOW @ 11" C-C (TYP.) | ⑥ PROP. THERMOPLASTIC PAVEMENT MARKING 12", DIAGONALS @ 45, REFER TO TC-13 (TYP.) |
| ② PROP. THERMOPLASTIC PAVEMENT MARKING 4", EDGE, WHITE - RIGHT OR YELLOW - LEFT (TYP.) | ⑦ PROP. THERMOPLASTIC PAVEMENT MARKING 24", STOPBAR, WHITE (TYP.) |
| ③ PROP. THERMOPLASTIC PAVEMENT MARKING 6", TURN LANE, WHITE (TYP.) | ⑧ PROP. THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS, WHITE (TYP.) |
| ④ PROP. THERMOPLASTIC PAVEMENT MARKING 6", DOTTED SKIP DASH @ 6' SKIP & 2' DASH, WHITE (TYP.) | |
| ⑤ PROP. THERMOPLASTIC PAVEMENT MARKING 6", CROSSWALK 2 @ 6' MIN. C-C, WHITE (TYP.) | |

ROADWAY LEGEND

PROP. HMA SURFACE REMOVAL BUTT JOINT 4.5 FT (TYP)

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

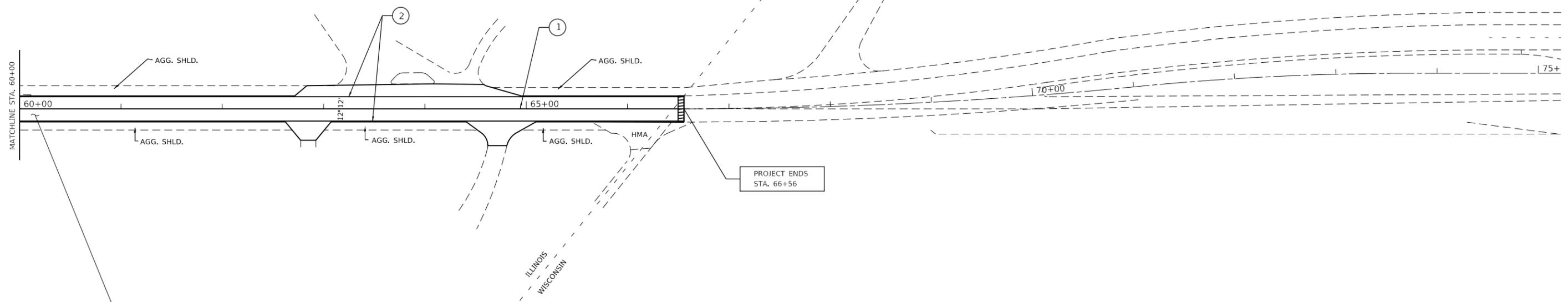
ROADWAY PLAN
US 12 (MAIN STREET) FROM WISCONSIN STATE LINE TO IL 173
SCALE: 1" = 50' SHEET 4 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	2020-075-R5	MCHENRY	28	10
CONTRACT NO. 62L53			ILLINOIS FED. AID PROJECT	



U.S. ROUTE 12
(N. MAIN STREET)

U.S. ROUTE 12
(N. MAIN STREET)



PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"
PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70, 1 1/2 "

PROJECT ENDS
STA. 66+56

PAVEMENT MARKING LEGEND

- ① PROP. THERMOPLASTIC PAVEMENT MARKING 4", DOUBLE YELLOW @ 11" C-C (TYP.)
- ② PROP. THERMOPLASTIC PAVEMENT MARKING 4", EDGE, WHITE - RIGHT OR YELLOW - LEFT (TYP.)
- ③ PROP. THERMOPLASTIC PAVEMENT MARKING 6", TURN LANE, WHITE (TYP.)
- ④ PROP. THERMOPLASTIC PAVEMENT MARKING 6", DOTTED SKIP DASH @ 6' SKIP & 2' DASH, WHITE (TYP.)
- ⑤ PROP. THERMOPLASTIC PAVEMENT MARKING 6", CROSSWALK 2 @ 6' MIN. C-C, WHITE (TYP.)
- ⑥ PROP. THERMOPLASTIC PAVEMENT MARKING 12", DIAGONALS @ 45, REFER TO TC-13 (TYP.)
- ⑦ PROP. THERMOPLASTIC PAVEMENT MARKING 24", STOPBAR, WHITE (TYP.)
- ⑧ PROP. THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS, WHITE (TYP.)

ROADWAY LEGEND

PROP. HMA SURFACE REMOVAL BUTT JOINT 4.5 FT (TYP)

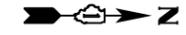
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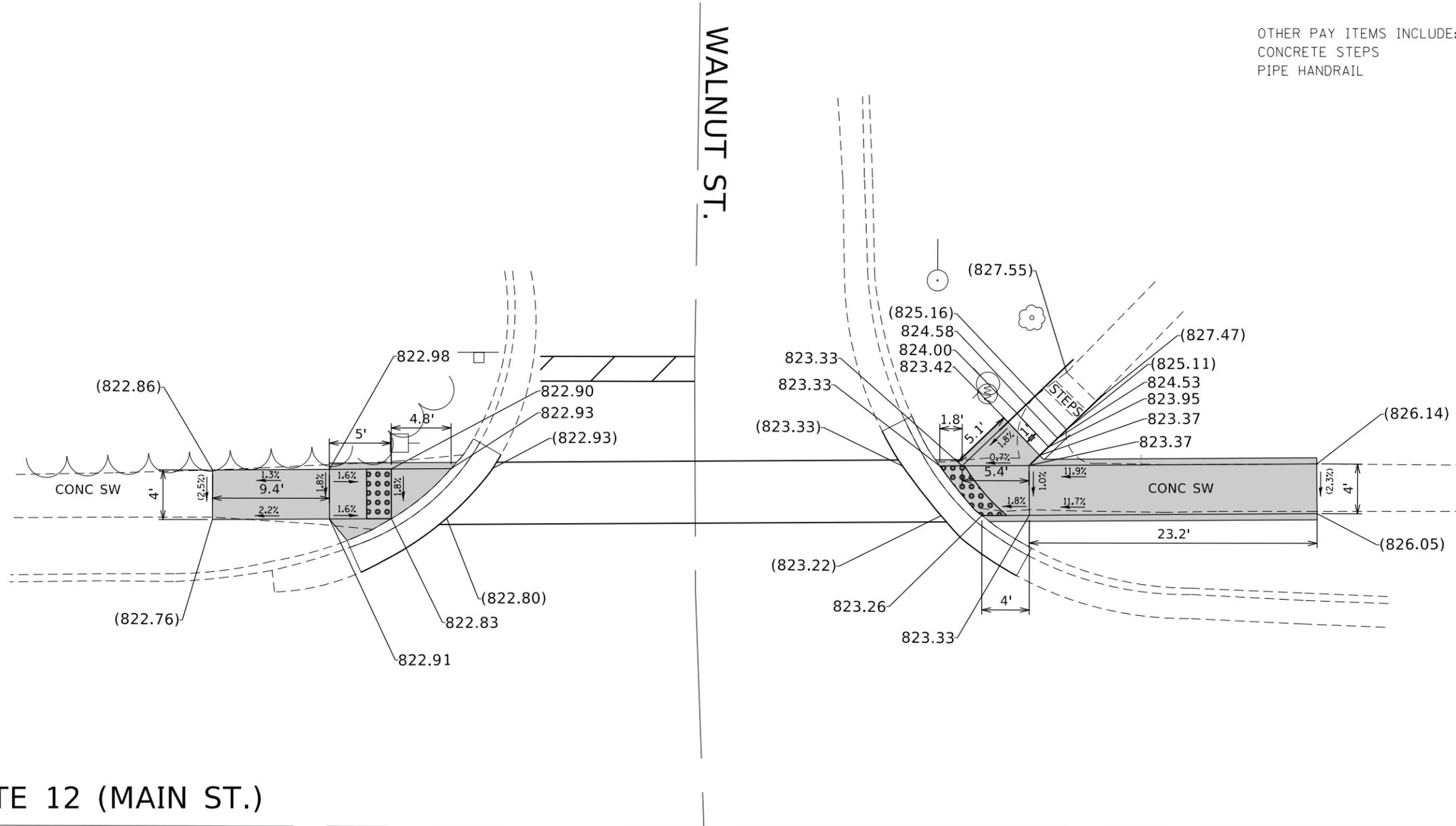
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROADWAY PLAN
US 12 (MAIN STREET) FROM WISCONSIN STATE LINE TO IL 173
SCALE: 1" = 50' SHEET 5 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	2020-075-R5	MCHENRY	28	11
CONTRACT NO. 62L53				
ILLINOIS FED. AID PROJECT				



OTHER PAY ITEMS INCLUDE:
 CONCRETE STEPS
 PIPE HANDRAIL



U.S. ROUTE 12 (MAIN ST.)

WALNUT ST.

LEGEND

- xx.xx' EXISTING LENGTH
- PROPOSED SIDE CURB
- () EXISTING ELEVATION/SLOPE
- PROPOSED SIDEWALK
- DETECTABLE WARNINGS
- SIDEWALK REMOVAL
REPLACE W/TOPSOIL & SOD

REFERENCE BENCHMARK ELEV 826.96
 BENCHMARK : BOLT ON FIRE HYDRANT
 LOCATION : NORTHWEST CORNER OF US 12 & WALNUT STREET

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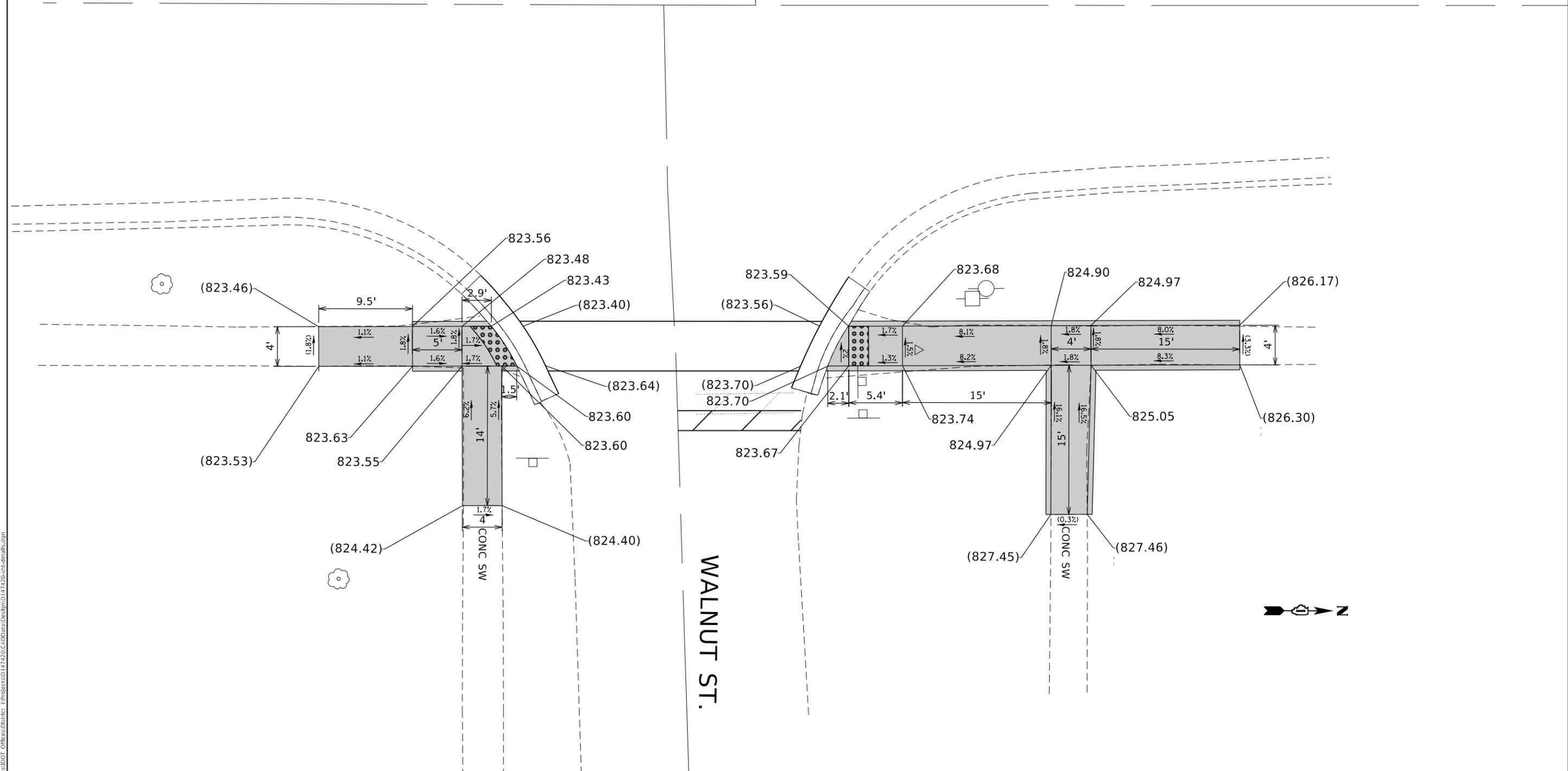
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SIDEWALK DETAIL PLAN
US 12 (MAIN STREET) FROM WISCONSIN STATE LINE TO IL 173

SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	2020-075-R5	MCHENRY	28	12
CONTRACT NO. 62L53				
ILLINOIS FED. AID PROJECT				

U.S. ROUTE 12 (MAIN ST.)



- xx.xx' EXISTING LENGTH
- PROPOSED SIDE CURB
- () EXISTING ELEVATION/SLOPE
- PROPOSED SIDEWALK
- DETECTABLE WARNINGS
- SIDEWALK REMOVAL
REPLACE W/TOPSOIL & SOD

REFERENCE BENCHMARK ELEV 826.96
 BENCHMARK : BOLT ON FIRE HYDRANT
 LOCATION : NORTHWEST CORNER OF US 12 & WALNUT STREET

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

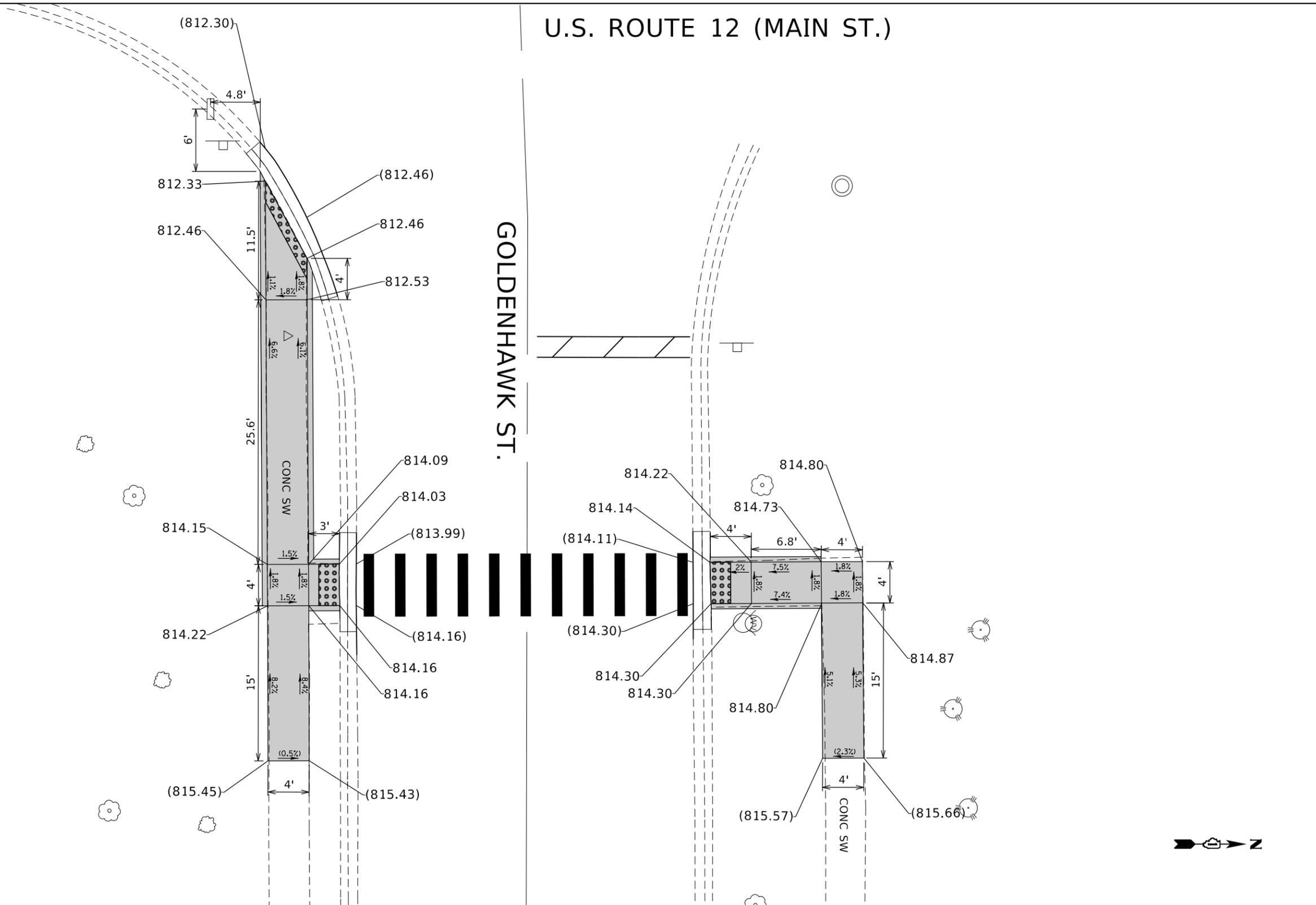
SIDEWALK DETAIL PLAN
US 12 (MAIN STREET) FROM WISCONSIN STATE LINE TO IL 173

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	2020-075-R5	MCHENRY	28	13
CONTRACT NO. 62L53				
ILLINOIS FED. AID PROJECT				

U.S. ROUTE 12 (MAIN ST.)

GOLDENHAWK ST.



LEGEND

- xx.xx' EXISTING LENGTH
- ===== PROPOSED SIDE CURB
- () EXISTING ELEVATION/SLOPE
- [Grey Box] PROPOSED SIDEWALK
- [Grid Box] DETECTABLE WARNINGS
- [Cross-hatch Box] SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD

REFERENCE BENCHMARK ELEV 817.21
 BENCHMARK : BOLT ON FIRE HYDRANT
 LOCATION : NORTHEAST CORNER OF US 12 & GOLDEN HAWK ROAD

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

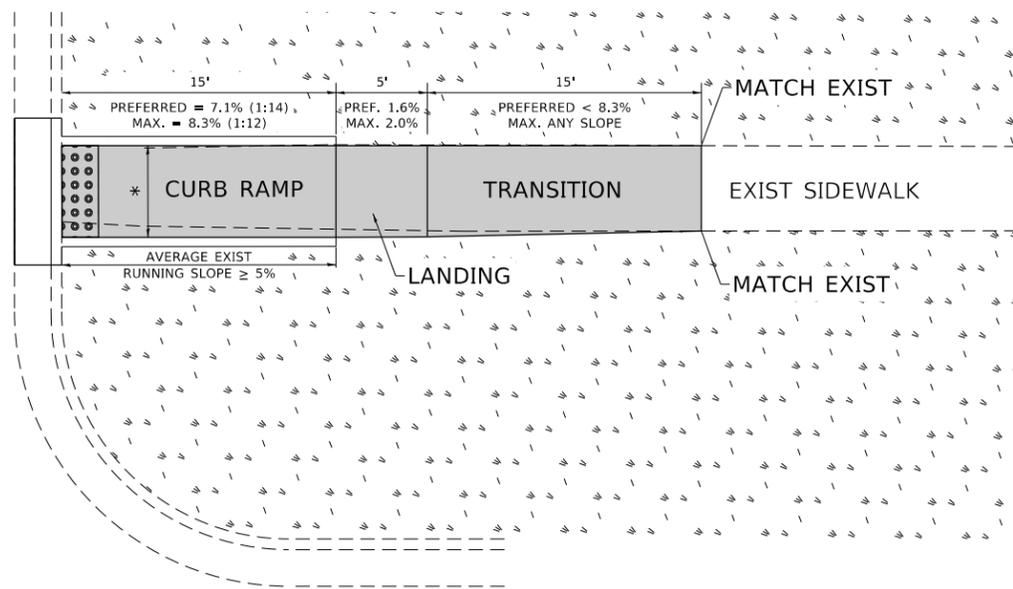
SIDEWALK DETAIL PLAN
US 12 (MAIN STREET) FROM WISCONSIN STATE LINE TO IL 173

SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

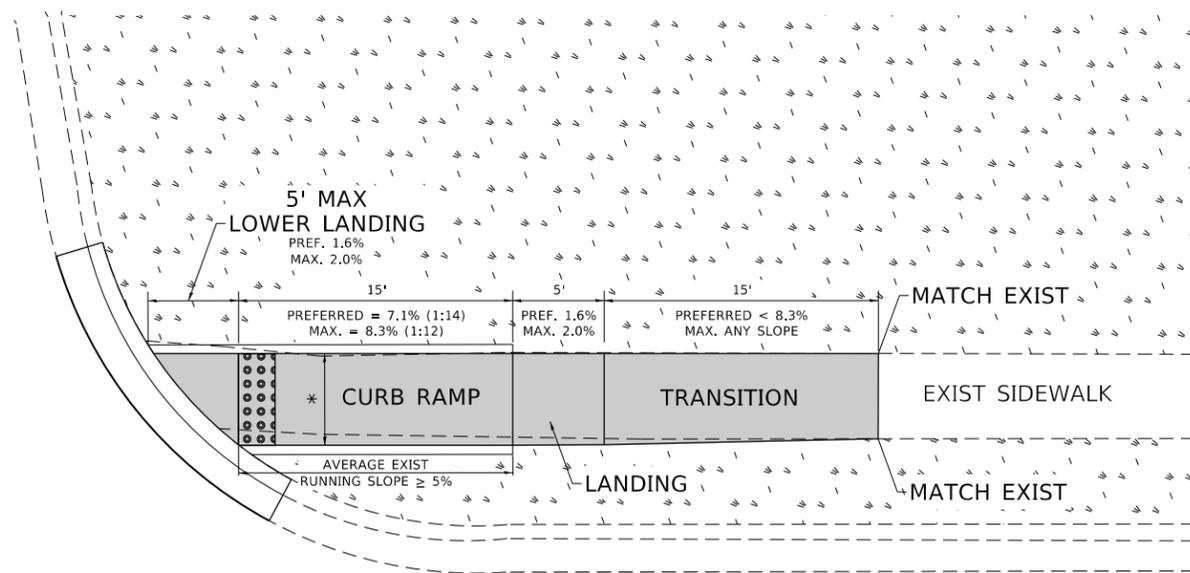
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334	2020-075-R5	MCHENRY	28	14
CONTRACT NO. 62L53				
ILLINOIS FED. AID PROJECT				

ADA DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS W/ EXIST. 5% OR GREATER RUN. SLOPE

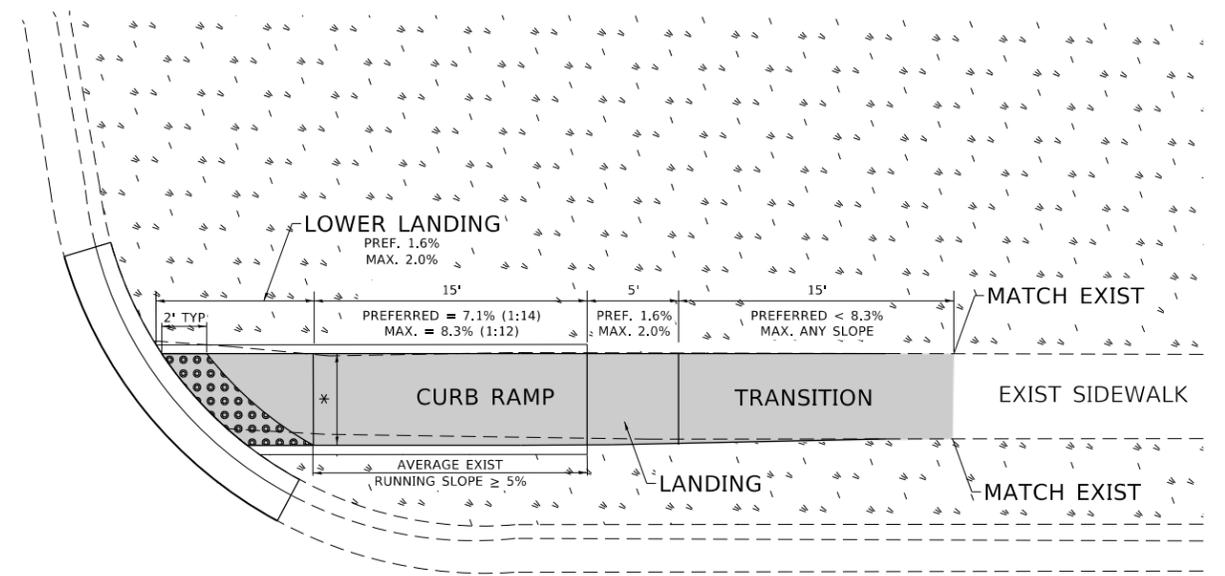
PD-02A



PD-02B



PD-02C



LEGEND

- EXIST. GRASS
- PROPOSED SIDEWALK
- DETECTABLE WARNINGS
- PROPOSED SIDE CURB

CONSTRUCTION NOTES:

- 1) ALL CROSS SLOPES ARE PREFERRED 1.6% (1:64), MAXIMUM 2% (1:50) EXCEPT WHEN TRANSITIONING TO EXISTING SIDEWALK
- * MATCH EXISTING SIDEWALK WIDTH

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS
(PD-02)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	2020-075-R5	MCHENRY	28	15
PD-02		CONTRACT NO. 62L53		
		ILLINOIS	FED. AID PROJECT	

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NOTES:

1. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING SURVEY ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF THE WORK.

2. MATERIALS:

PIPE RAILS AND POSTS: ASTM A53 GRADE B FOR PIPE OR ASTM A500 GRADE B OR C ASTM A501 FOR STRUCTURAL TUBE.

Railing Member Dimensions Table			
Member	Designation	Outside Dimension	Wall Thickness
Posts	1/2" NPS (Sch. 80)	1.90"	0.200"
Rails	1/2" NPS (Sch. 40)	1.90"	0.145"
			0.133"

3. FABRICATION:

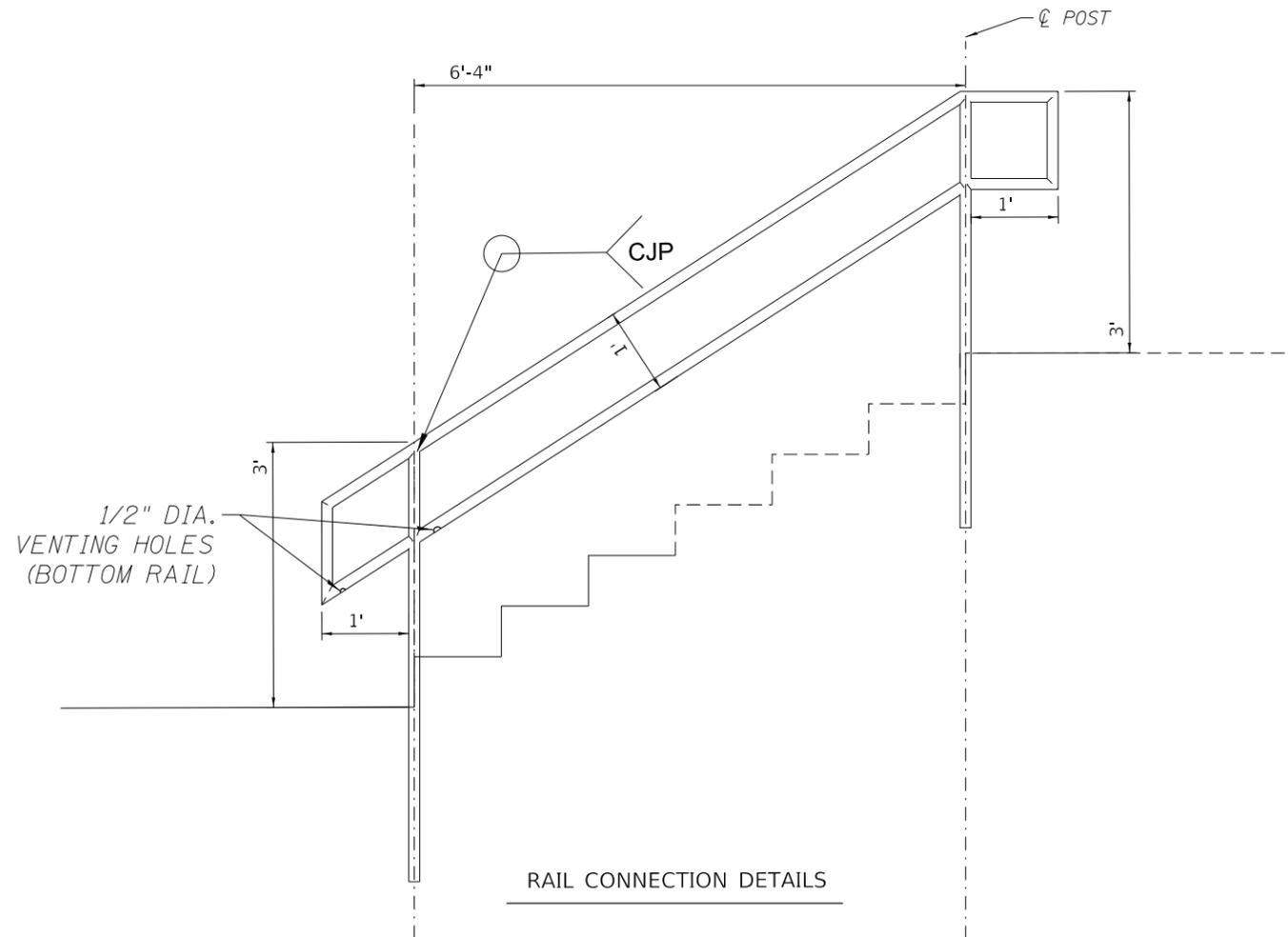
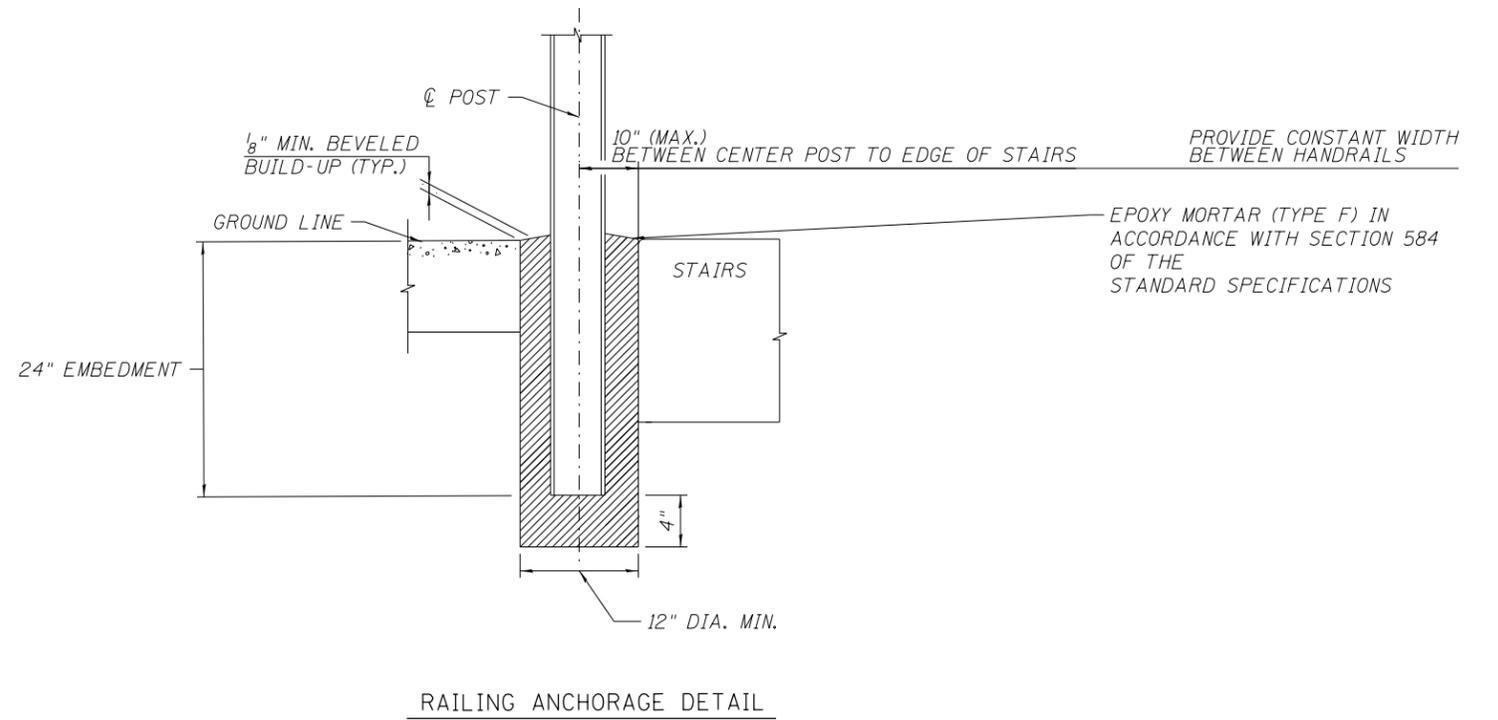
CORNERS AND CHANGES IN TANGENTIAL LONGITUDINAL ALIGNMENT MAY BE MADE CONTINUOUS WITH A 9" BEND RADIUS OR TERMINATED AT ADJOINING SECTIONS WITH A STANDARD END HOOP WHEN HANDRAILS ARE NOT REQUIRED.

4. GRIPPING SURFACES SHALL BE UNINTERRUPTED BY NEWEL POSTS, OTHER CONSTRUCTION ELEMENTS, OR OBSTRUCTIONS.

5. ENDS OF HANDRAIL SHALL BE EITHER ROUNDED OR RETURNED SMOOTHLY TO FLOOR, WALL, OR POST.

6. HAND & SAFETY RAILS SHALL NOT ROTATE WITHIN THEIR FITTINGS.

7. HANDRAIL SHALL CONFORM TO SECTION 509 WITH THE EXCEPTION THAT ALL PIPE AND CONNECTIONS SHALL BE WELDED GALVANIZED ACCORDING TO ARTICLE 1006.34.



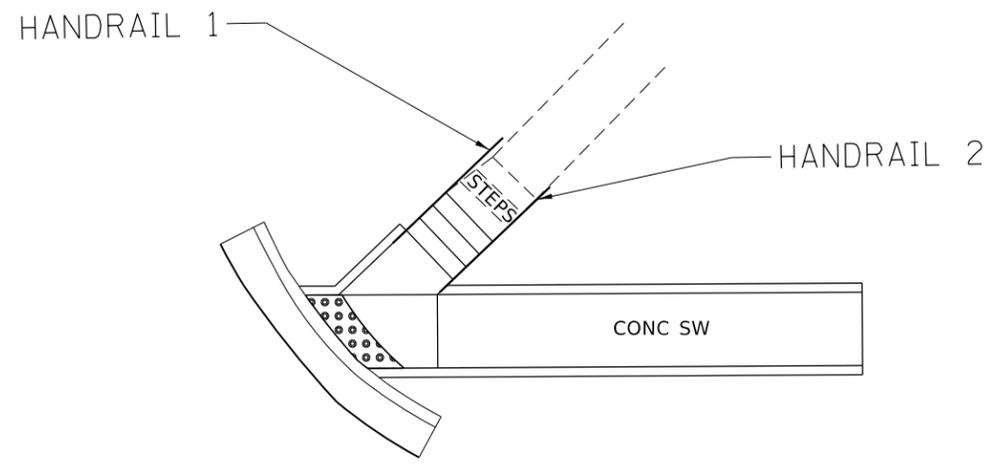
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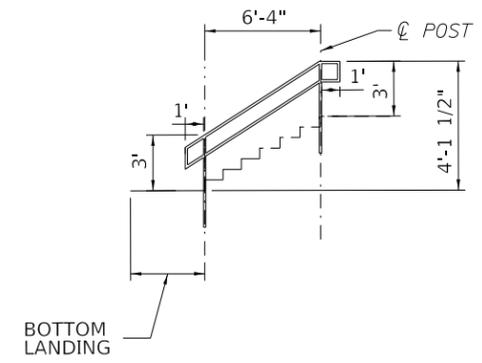
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

HANDRAIL DETAIL PLAN
SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

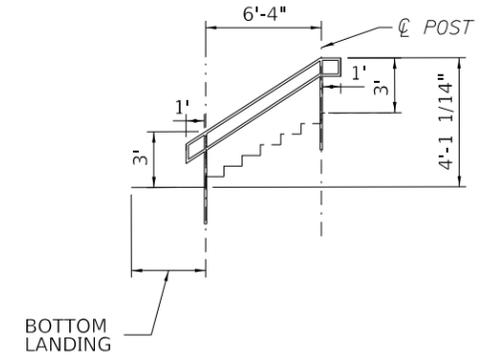
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	2020-075-R5	McHENRY	28	16
CONTRACT NO. 62L53				
ILLINOIS FED. AID PROJECT				



HANDRAIL LAYOUT



HANDRAIL 1



HANDRAIL 2

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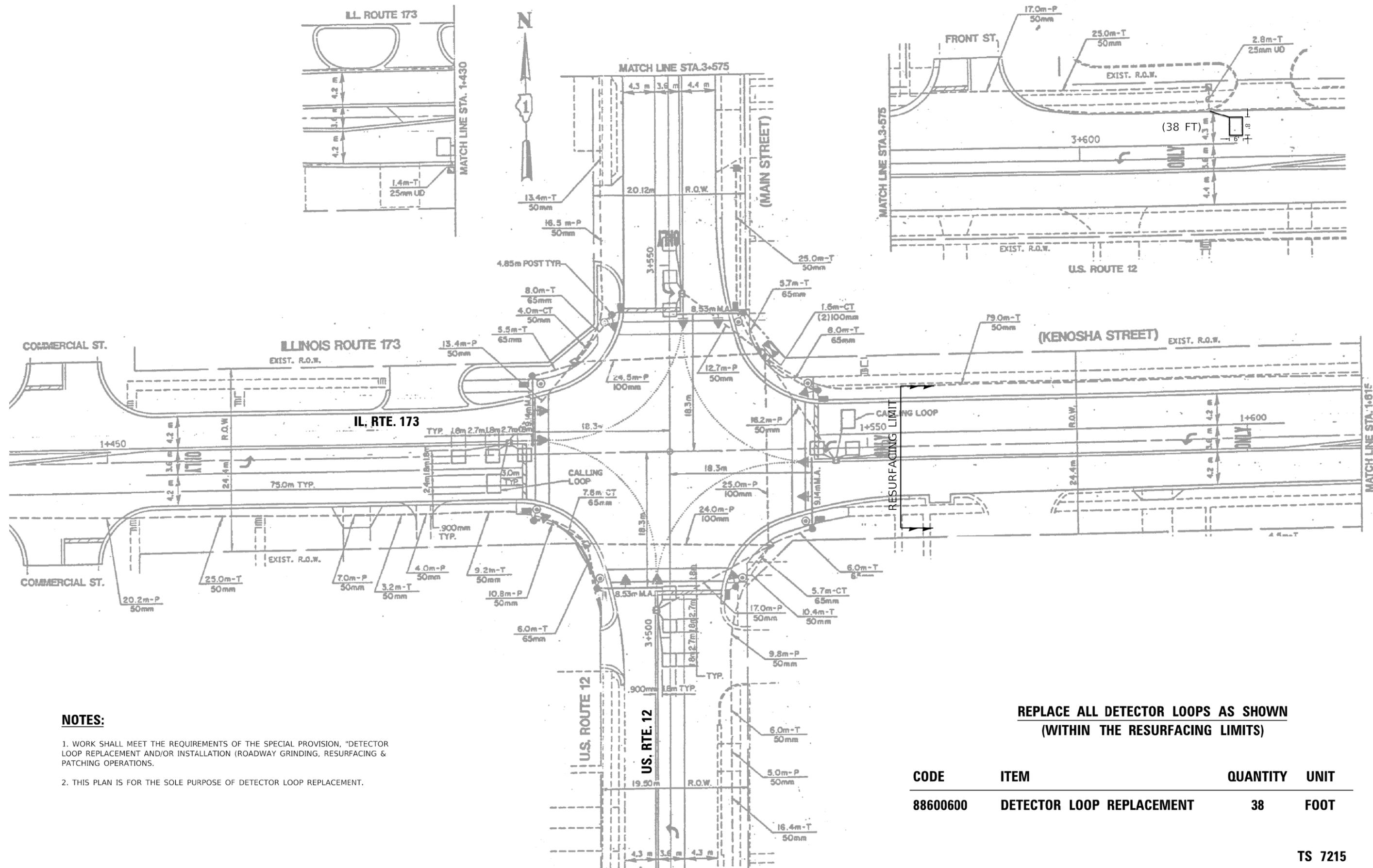
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HANDRAIL DETAIL PLAN

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	2020-075-R5	McHENRY	28	17
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62L53	



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	38	FOOT

TS 7215

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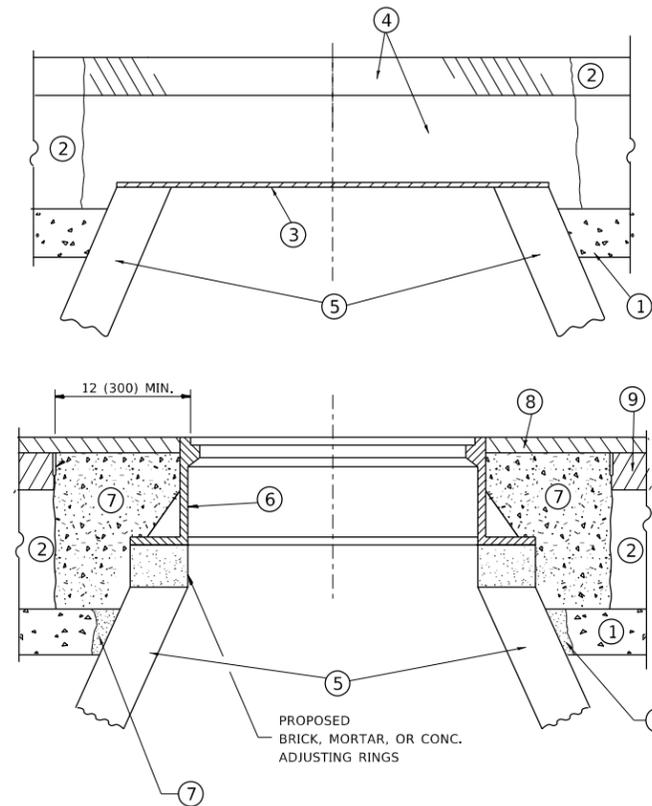
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETECTOR LOOP REPLACEMENT PLAN
US. RTE. 12 AT IL. RTE. 173**

SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 334	SECTION 2020-075-R5	COUNTY MCHENRY	TOTAL SHEETS 28	SHEET NO. 18
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62L53	



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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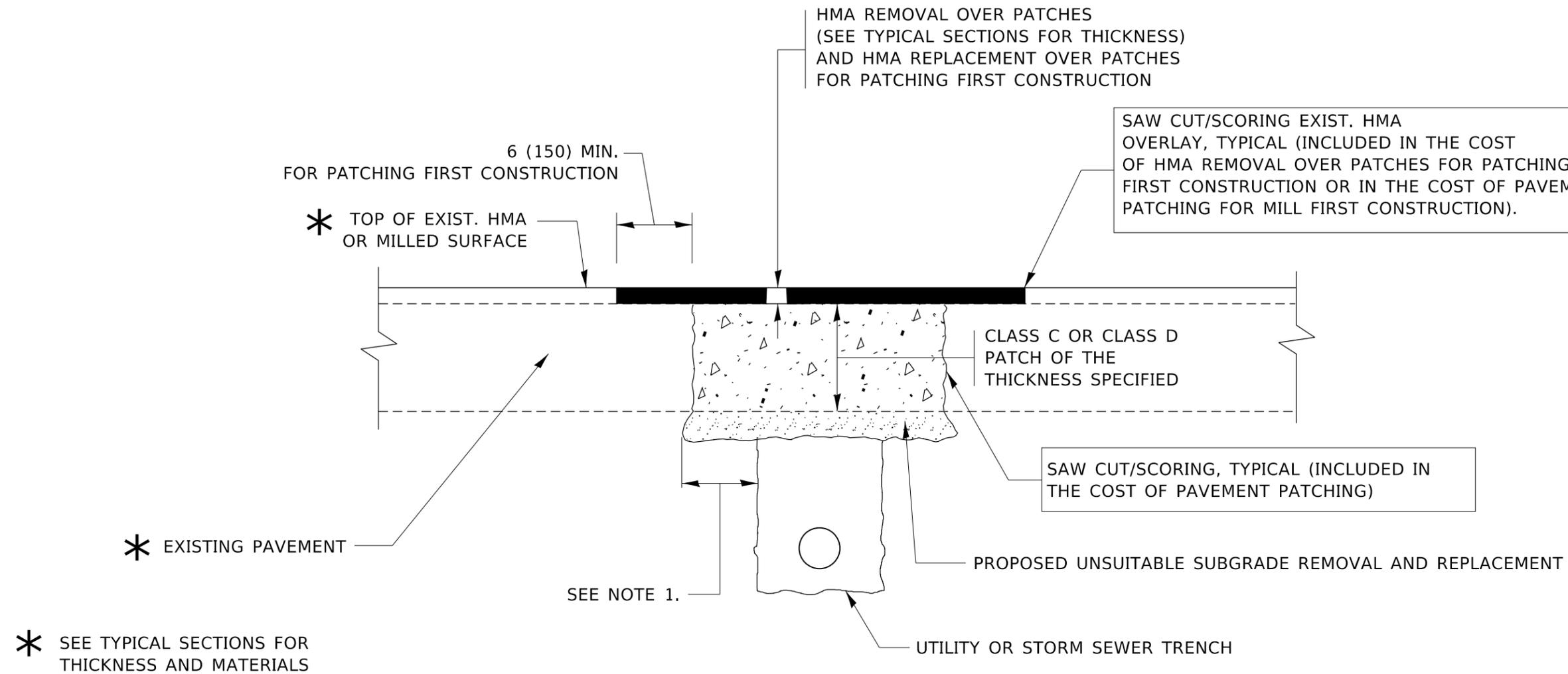
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PLOT DATE = 12/8/2020	DATE - 10-25-94	REVISED - R. BORO 12-06-11

**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.
334	2020-075-R5	MCHENRY	28	19
BD600-03 (BD-8)		CONTRACT NO. 62L53		
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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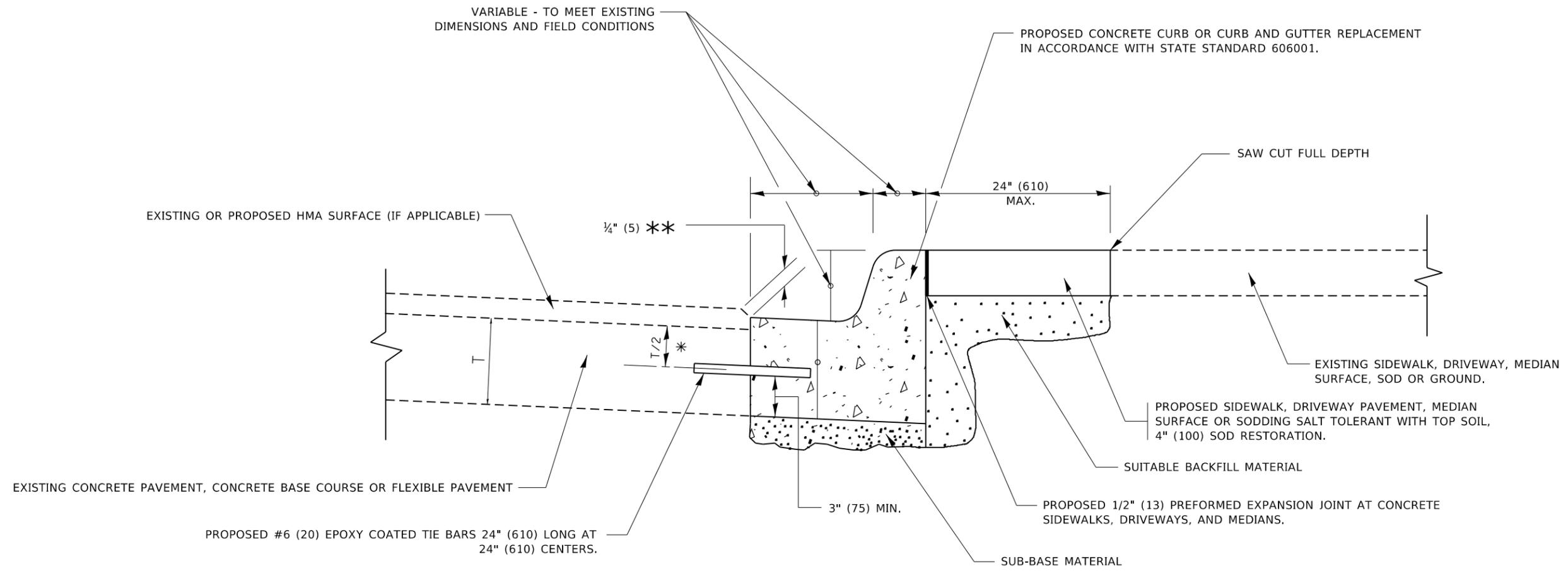
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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.
334	2020-075-RS	MCHENRY	28	20
BD400-04 (BD-22)			CONTRACT NO. 62L53	
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.

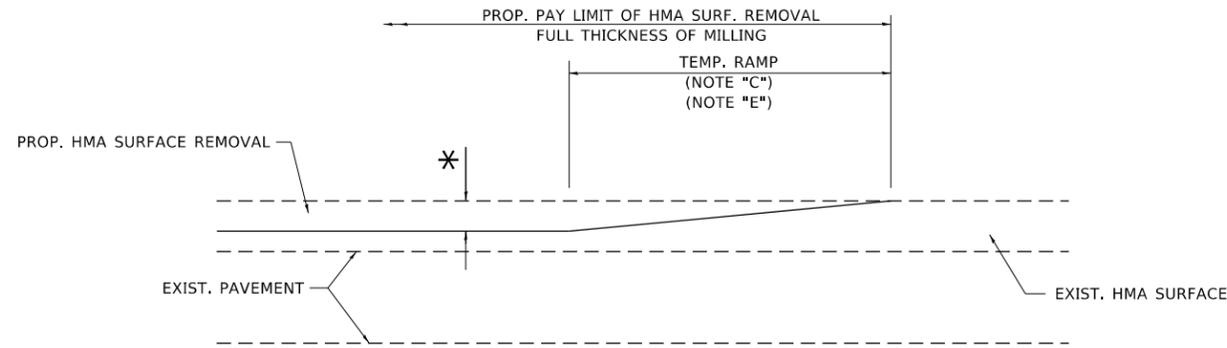
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USER NAME = diazia	DESIGNED - A. HOUSEH	REVISED - A. ABBAS 03-21-97
	DRAWN -	REVISED - M. GOMEZ 01-22-01
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - R. BORO 12-15-09
PLOT DATE = 12/8/2020	DATE - 03-11-94	REVISED - K. SMITH 07-11-19

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

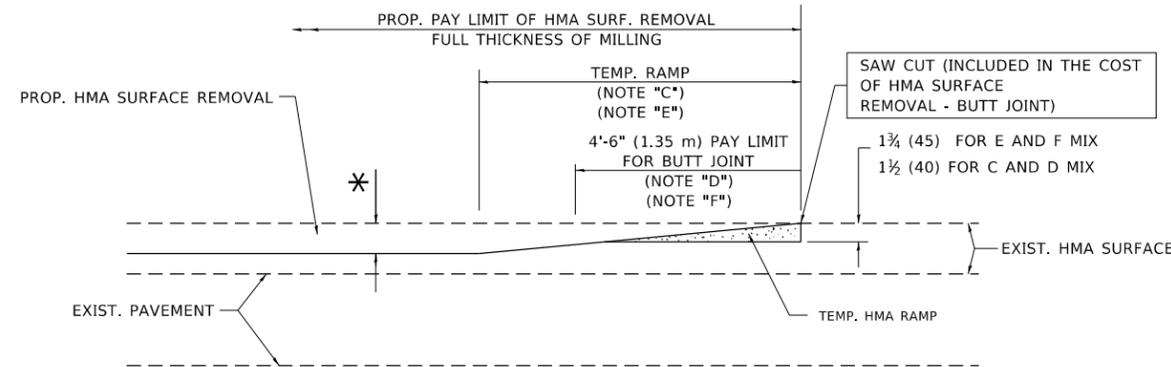
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	2020-075-R5	MCHENRY	28	21
BD600-06 (BD-24)			CONTRACT NO. 62L53	
ILLINOIS FED. AID PROJECT				



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

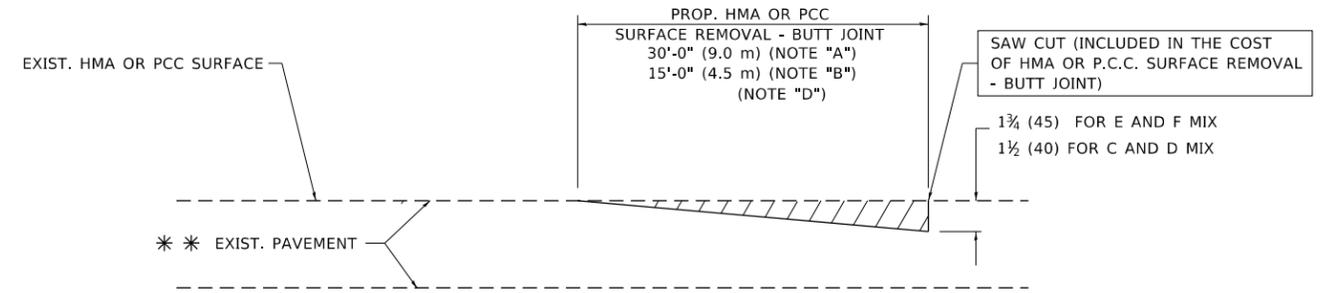


HMA CONSTRUCTED TEMPORARY RAMP

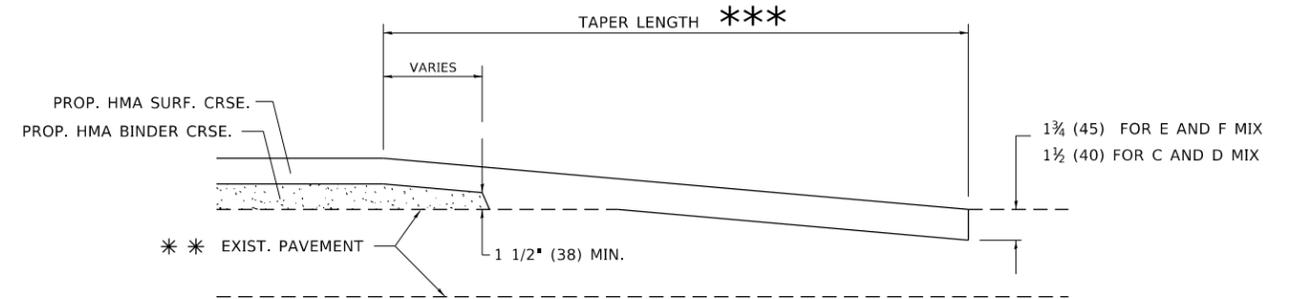
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

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.

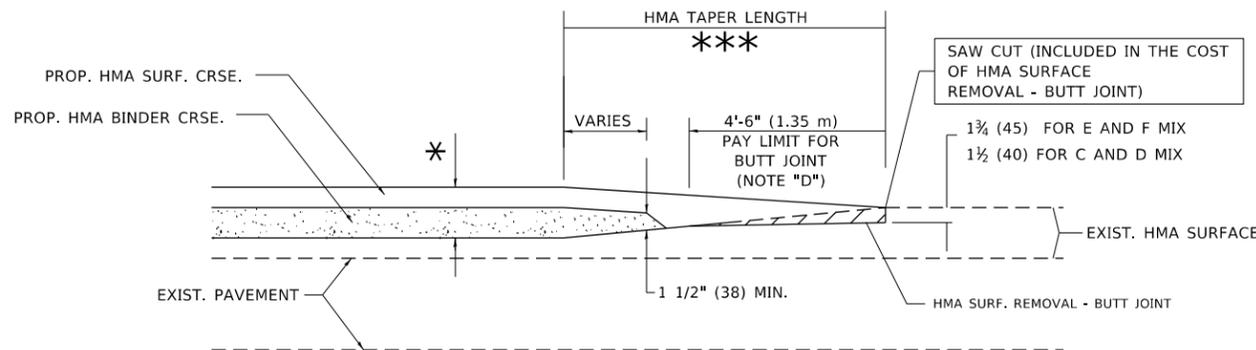
NOTES

- 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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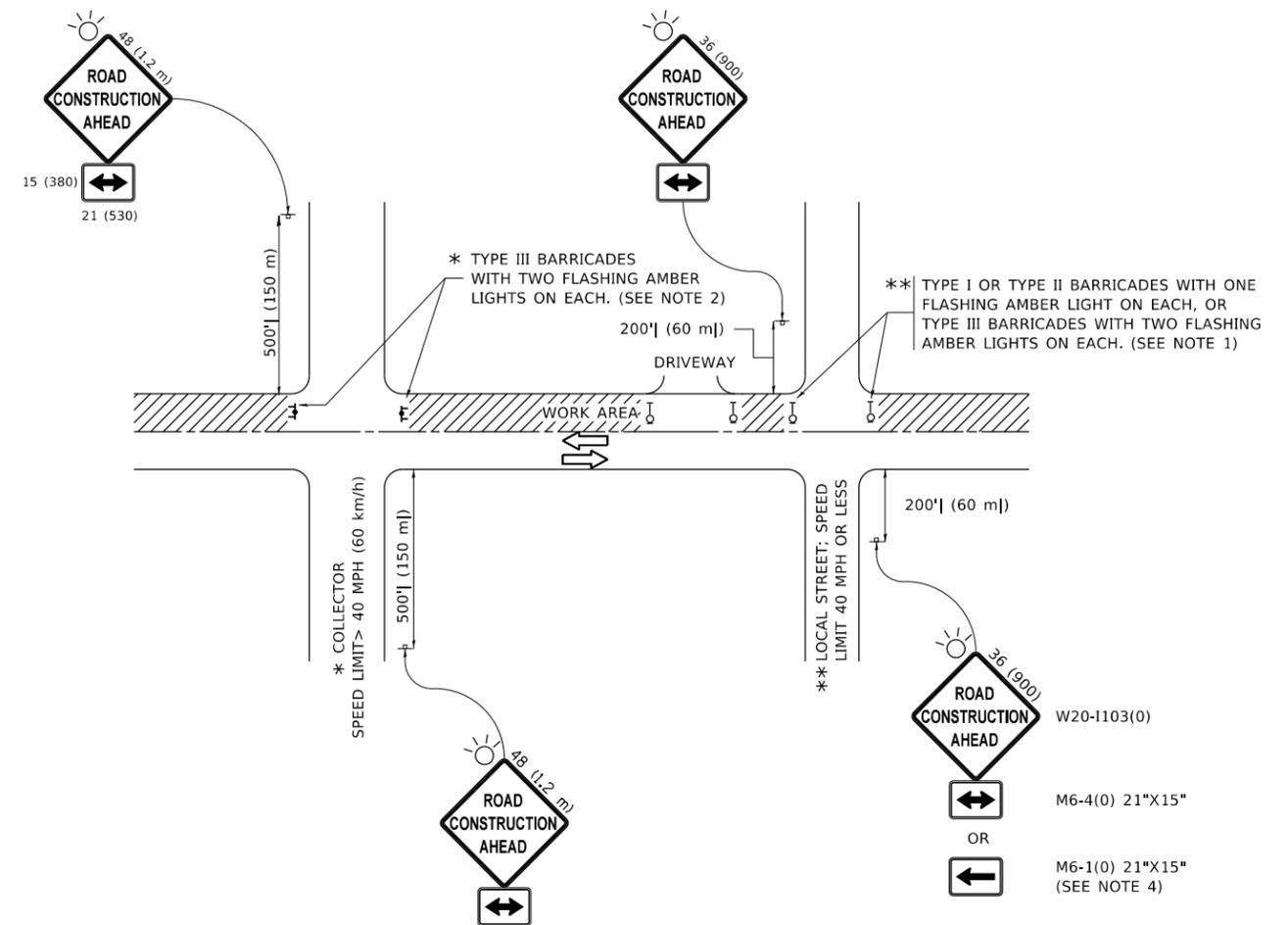
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	DRAWN -	REVISED - A. ABBAS 03-21-97
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - M. GOMEZ 04-06-01
PLOT DATE = 12/8/2020	DATE - 06-13-90	REVISED - R.BORO 01-01-07

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.
334	2020-075-R5	MCHENRY	28	22
BD400-05 BD32		CONTRACT NO. 62L53		
ILLINOIS FED. AID PROJECT				



NOTES:

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) 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.
 - 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:
 - a) 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.
 - b) BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. 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.
4. SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. 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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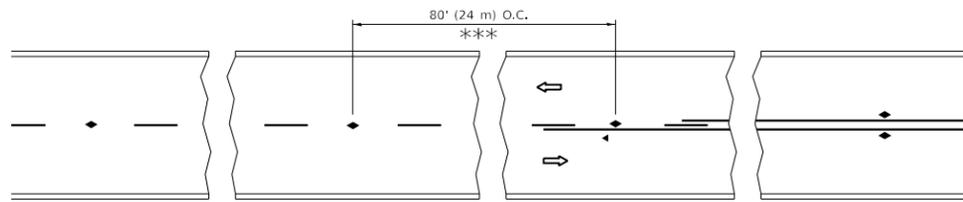
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PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - T. RAMMACHER 01-06-00
PLOT DATE = 12/8/2020	DATE - 06-89	REVISED - A. SCHUETZE 07-01-13
		REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

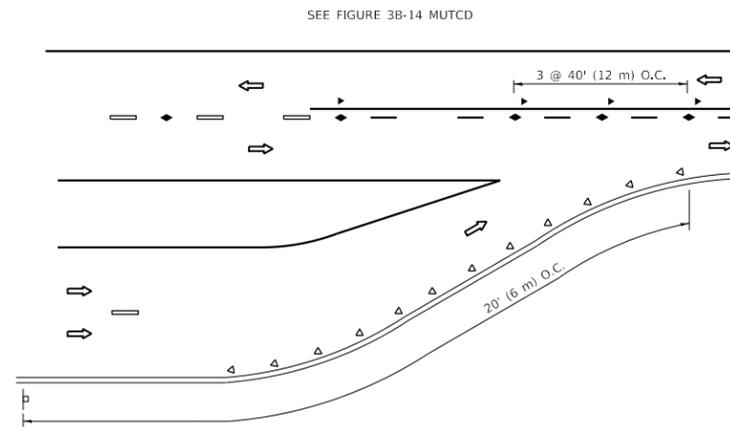
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-10			CONTRACT NO. 62L53	
ILLINOIS FED. AID PROJECT				

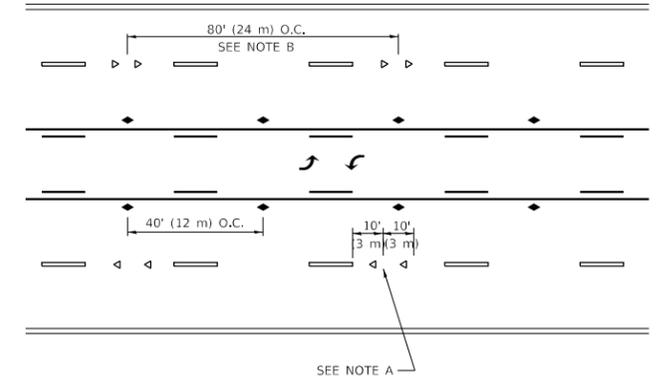


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

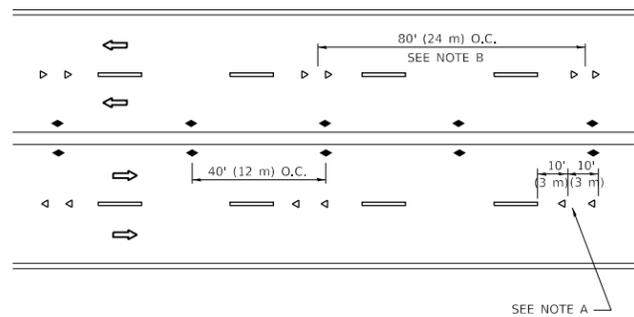
TWO-LANE/TWO-WAY



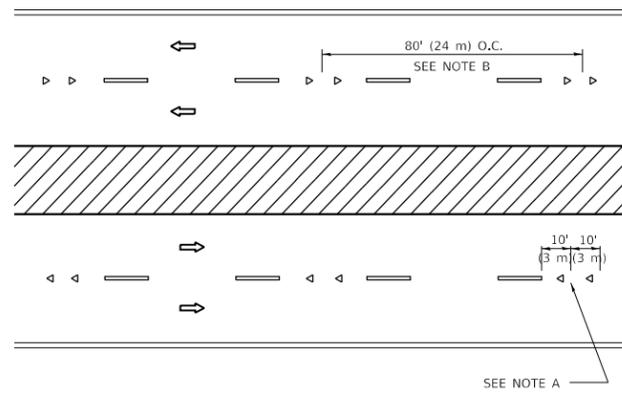
LANE REDUCTION TRANSITION



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

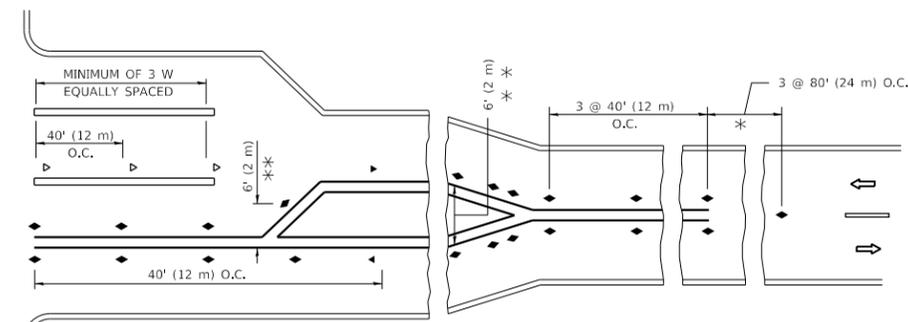
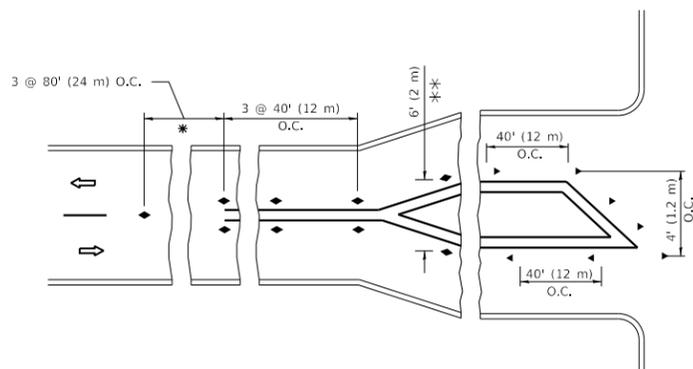
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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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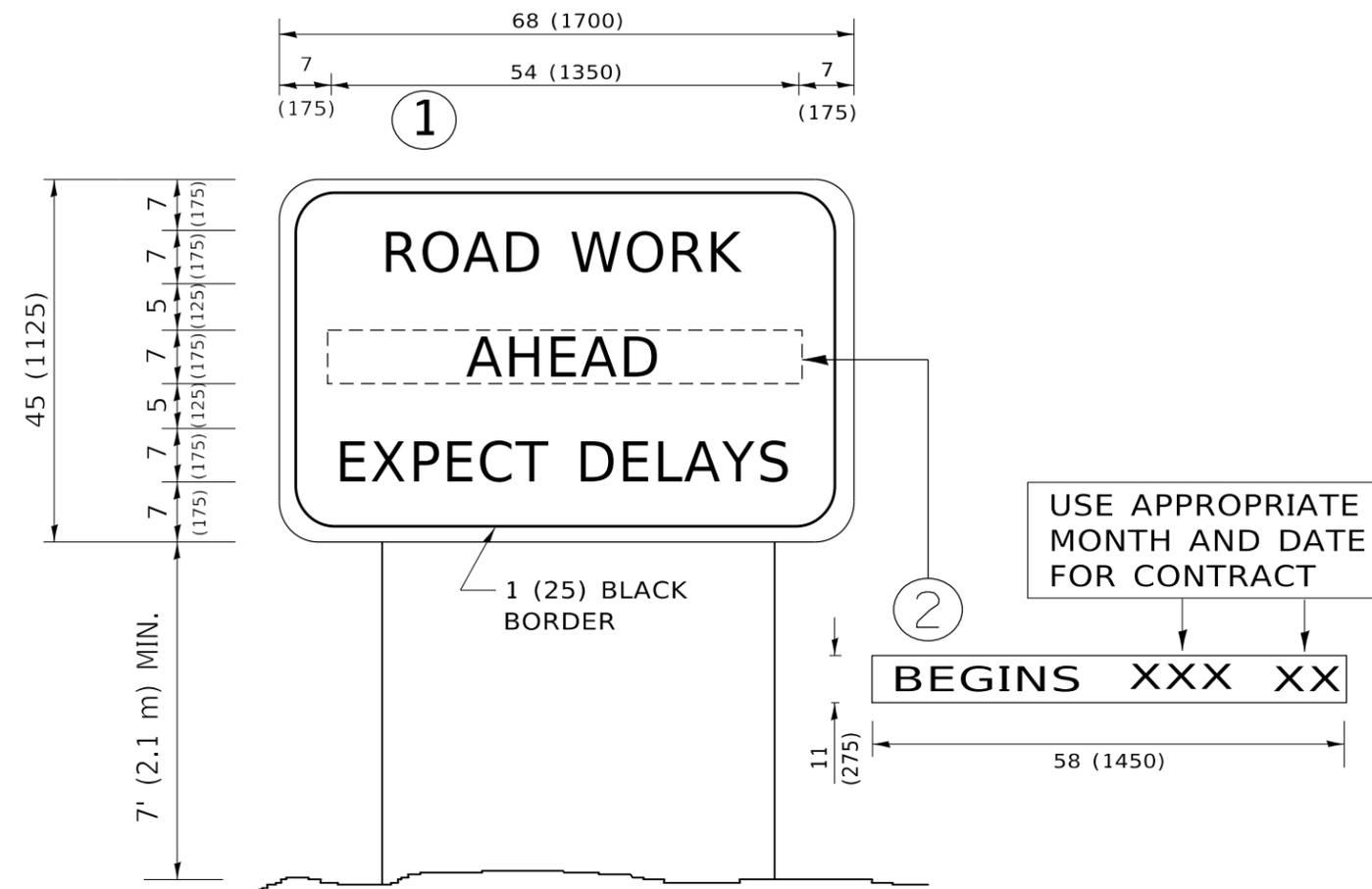
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PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED - T. RAMMACHER 01-06-00
PLOT DATE = 12/8/2020	CHECKED -	REVISED - C. JUCIUS 09-09-09
	DATE -	REVISED - C. JUCIUS 07-01-13

**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.
334	2020-075-RS	MCHENRY	28	24
TC-11		CONTRACT NO. 62L53		
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.

MODEL: Default
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	DRAWN -	REVISED - R. MIRS 12-11-97
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
PLOT DATE = 12/8/2020	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

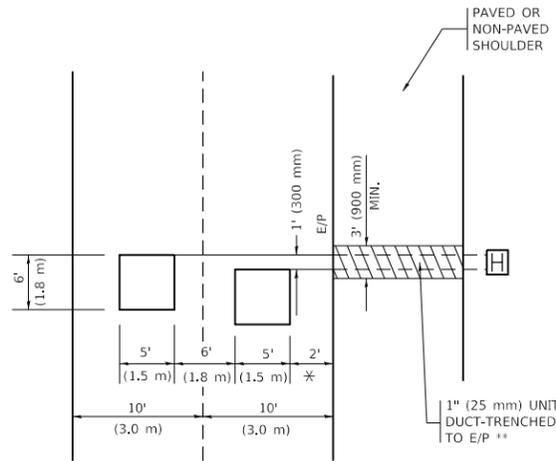
**ARTERIAL ROAD
INFORMATION SIGN**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	2020-075-RS	MCHENRY	28	27
TC-22			CONTRACT NO. 62L53	
ILLINOIS FED. AID PROJECT				

LOOPS NEXT TO SHOULDERS

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

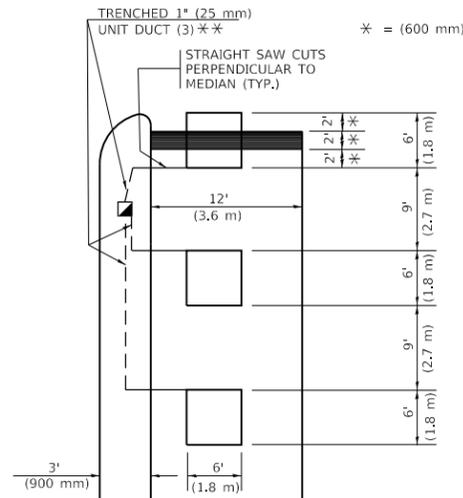


* = (600 mm)

** 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.

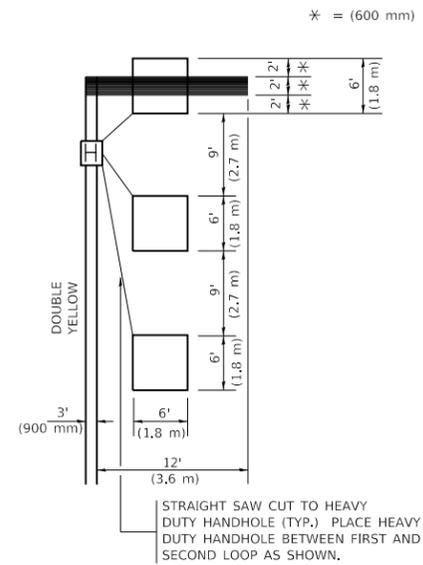


* = (600 mm)

** 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 SEPARATLY. 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.

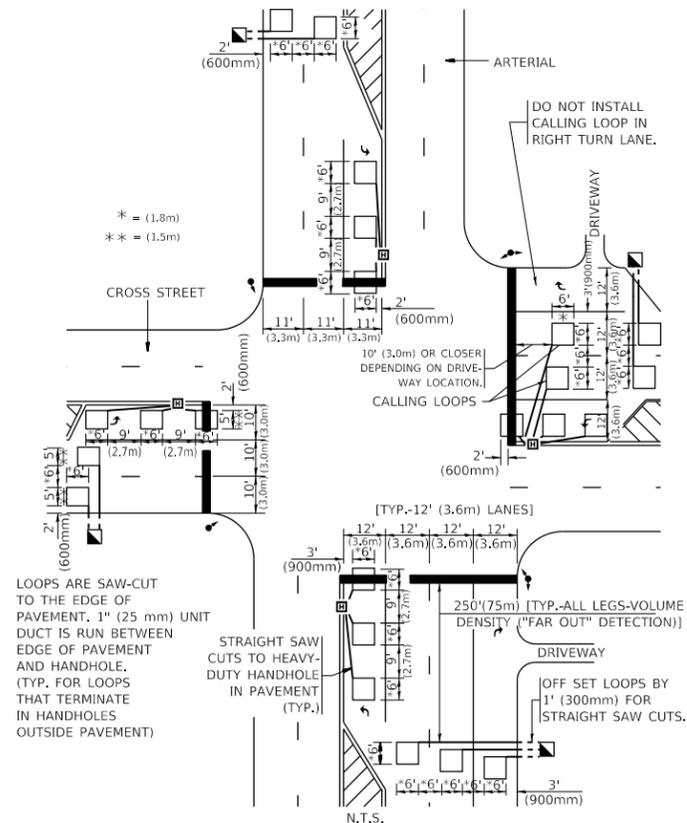
"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0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



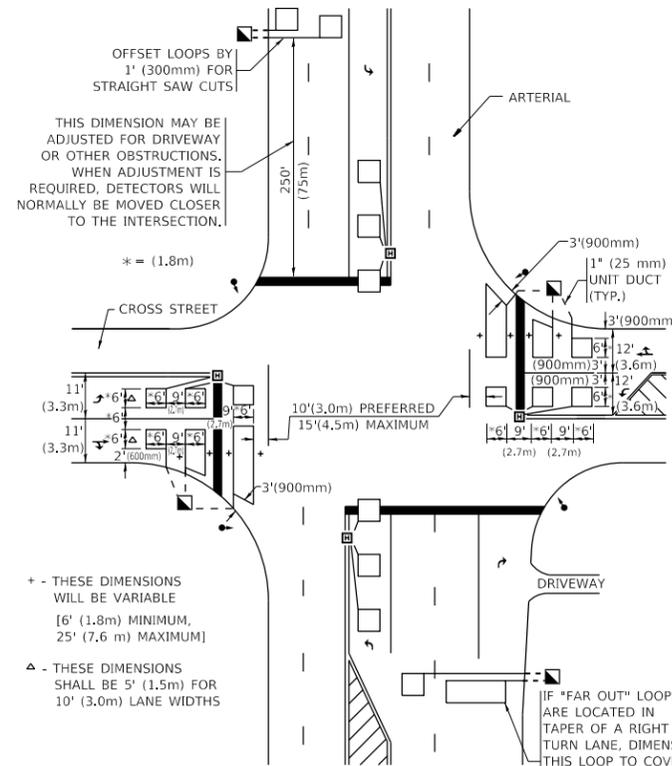
* = (1.8m)
** = (1.5m)

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)



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

Δ - 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.
334	2020-075-RS	MCHENRY	28	28
TS-02		CONTRACT NO. 62L53		
ILLINOIS		FED. AID PROJECT		