

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	2024-1029-RS	MCHENRY	27	1
		ILLINOIS	CONTRACT NO. 62X66	

D-91-057-25



FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT LOCATED IN:

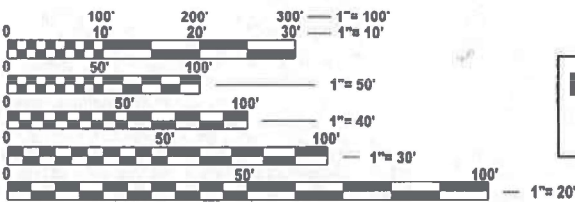
UNINCORPORATED
CORAL TOWNSHIP

TRAFFIC DATA:
US 20 GRANT MEMORIAL HIGHWAY
ADT (2023) = 6550
POSTED AND DESIGN SPEED LIMIT = 55 MPH
OTHER PRINCIPAL ARTERIAL

F.A.P ROUTE 525: U.S. ROUTE 20 (GRANT MEMORIAL HIGHWAY)
WEST OF HARMONY ROAD TO EAST OF MARENGO ROAD
SECTION: 2024-1029-RS

STANDARD OVERLAY
MCHENRY COUNTY

C-91-077-25

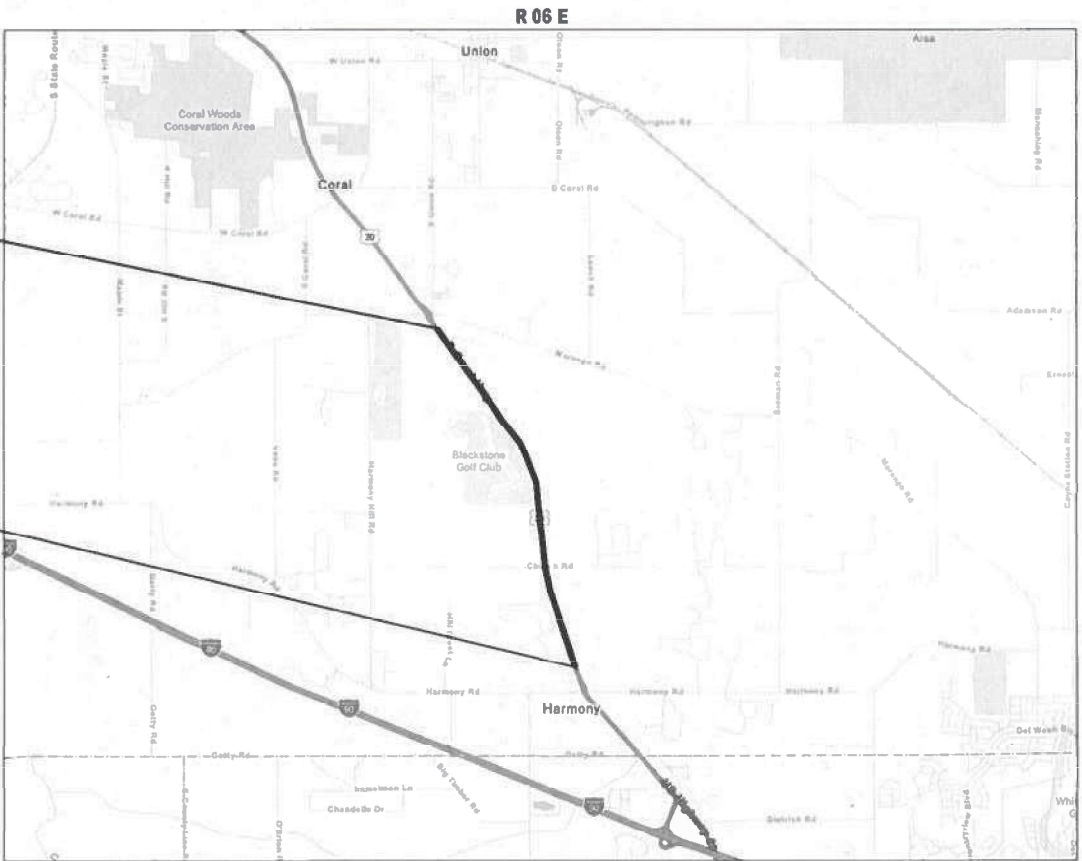


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: DANIEL WILGREEN, P.E. (847) 705- 4240
PROJECT MANAGER: J. ALAIN MIDY, P.E. (847) 221- 3056

CONTRACT NO. 62X66



LOCATION MAP
(NOT TO SCALE)

CORAL TOWNSHIP

GROSS AND NET LENGTH = 15,461.2 FT. = 2.93 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 17th 2025
Torrey S. Ir REGIONAL ENGINEER
May 9 2025
Scott A. Etk ENGINEER OF DESIGN AND ENVIRONMENT
May 9 2025
Chadley DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

STATE STANDARDS

GENERAL NOTES

SHEET NO.	DESCRIPTION	STANDARD NO.	DESCRIPTION	
1	COVER SHEET	000001-08	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS	1. ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
2	INDEX OF SHEETS. STATE STANDARDS,AND GENERAL NOTES	442201-03	CLASS C AND D PATCHES	2. ALL MILLED SURFACES SHALL BE A UNIFORM CROSS SLOPE PER LANE AND FREE OF RIDGES BETWEEN PASSES, ANY DEVIATIONS SHALL BE CORRECTED AT NO COST TO THE DEPARTMENT.
3-4	SUMMARY OF QUANTITIES	482011-03	HMA SHLD. STRIPS/SHLDS. WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS	3. LOCATION OF COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT [OR COMBINATION CURB AND GUTTER (THE TYPE SPECIFIED ON THE PLANS)], WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
5-8	EXISTING AND PROPOSED TYPICAL SECTIONS	606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER	4. 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.
9-15	ROADWAY PLANS	630001-13	STEEL PLATE BEAM GAURDRAIL	5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
16	FRAMES AND LIDS ADJUSTMENT WITH MILLING (BD-08)	630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS	6. THE CONTRACTOR SHALL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF PLATED STRUCTURES BY STATION AND OFFSET LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT.
17	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD-22)	701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) to 24" (600 mm) FROM PAVEMENT EDGE	7. PAVEMENT MARKING TAPE, TYPE IV SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES.
18	CURB AND GUTTER REMOVAL AND REPLACEMENT (BD-24)	701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY	8. OVERNIGHT LANE CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION PROJECTS INVOLVING DAYTIME MILLING AND RESURFACING OPERATIONS AND CLASS D PATCHING UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURES AS DETERMINED AND APPROVED IN WRITING BY THE ENGINEER OR AS PROVIDED FOR IN THE CONTRACT SPECIFICATIONS.
19	BUTT JOINT AND HMA TAPER DETAILS (BD-32)	701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS	9. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
20	DETAIL FOR DEPRESSED CURB & GUTTER AND SHOULDER TREATEMENT AT TBT TY. 1 SPL. (BD-34)	701306-04	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEED ≥ 45MPH	10. 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.
21	RUMBLE STRIPS FOR CENTERLINE, NON-FREEWAY (BD-55)	701311-03	LANE CLOSURE, 2L, 2W MOVING OPERATIONS- DAY ONLY	11. 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.
22	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10)	701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED	12. THE RESIDENT ENGINEER SHALL CONTACT BRANDY KENNEDY AREA TRAFFIC FIELD ENGINEER, AT BRANDY.KENNEDY@ILLINOIS.GOV, A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
23	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) (TC-11)	701502-09	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE	13. ANY DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
24	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)	701901-10	TRAFFIC CONTROL DEVICES	14. ALL PAVEMENT MARKINGS ACCORDING TO DISTRICT 1 TYPICAL PAVEMENT MARKING DETAIL TC-13.
25	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC-14)	725001-01	OBJECT AND TERMINAL MARKERS	15. THE CONTRACTOR SHALL CONTACT THE DISTRICT TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
26	SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS (TC-16)	780001-05	TYPICAL PAVEMENT MARKINGS	16. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
27	ARTERIAL ROAD INFORMATION SIGN (TC-22)	781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS	17. RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED THROUGHOUT THE IMPROVEMENT ACCORDING TO THE DISTRICT STANDARDS AS NOTED IN THE DETAIL.
		782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS	18. ALL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED ACCORDING TO IDOT D1 RRPM DETAIL TC-11.
				19. LOCATIONS WITH FAILED SHOULDER ARE TO BE DETERMINED IN THE FIELD BY THE ENGINEER AND ARE TO BE REPAIRED BY CLASS D PATCHES.
				20. LOCATIONS FOR GUARDRAIL REPAIR ARE TO BE LAID OUT IN THE FIELD BY THE RESIDENT ENGINEER.

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			DRAWN	-	REVISED	-
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	PLOT DATE	= 3/17/2025	DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, STATE STANDARD AND GENERAL NOTES
U.S. RTE 20 (GRANT MEM, HWY.) (W/O HARMONY RD. TO E/O MARENGO RD.)

SCALE: SHEET OF 1 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	2024-1029-RS	MCHENRY	27	2
CONTRACT NO. 62X66				
ILLINOIS		FED. AID PROJECT		

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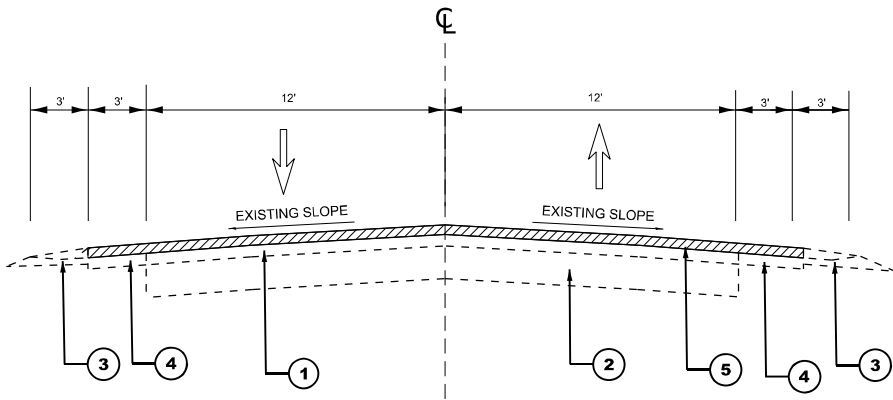
SUMMARY OF QUANTITIES					TYPE CODE					
					URBAN	URBAN	URBAN	URBAN	URBAN	URBAN
					ROADWAY	ROADWAY				
					100% STATE	100% STATE				
	Code No.	Item	Unit	Total Quantity	0005	0005				
	20200100	EARTH EXCAVATION	CU YD	25	25					
	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	310	310					
	21400100	GRADING AND SHAPING DITCHES	FOOT	270	270					
	25000210	SEEDING, CLASS 2A	ACRE	0.01	0.01					
	25100630	EROSION CONTROL BLANKET	SQ YD	60	60					
	40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	37812	37812					
	40600370	LONGITUDINAL JOINT SEALANT	FOOT	15461	15461					
	40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	85	85					
	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	188	188					
	40603200	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50	TON	2311	2311					
	40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	4706	4706					
	44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	56017	56017					
	44201789	CLASS D PATCHES, TYPE II, 12 INCH	SQ YD	363	363					
	44201794	CLASS D PATCHES, TYPE III, 12 INCH	SQ YD	93	93					
	44201796	CLASS D PATCHES, TYPE IV, 12 INCH	SQ YD	30	30					
	48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	774	774					
*	63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	50	50					
	63200310	GUARDRAIL REMOVAL	FOOT	1850	1850					
	64200108	SHOULDER RUMBLE STRIPS, 8 INCH	FOOT	28117	28117					
*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	25	25					
*	66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2					
		USER NAME = Rana.Kalo	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION					
			DRAWN -	REVISED -						
			CHECKED -	REVISED -						
		PLOT DATE = 3/24/2025	DATE -	REVISED -						

* SPECIALTY ITEMS

SUMMARY OF QUANTITIES					TYPE CODE					
					URBAN	URBAN	URBAN	URBAN	URBAN	URBAN
					ROADWAY	ROADWAY				
					100% STATE	100% STATE				
	Code No.	Item	Unit	Total Quantity	0005	0005				
*	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1					
*	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1					
*	66901006	REGULATED SUBSTANCES MONITORING	CAL DA	2	2					
	67100100	MOBILIZATION	L SUM	1	1					
	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					
	70300100	SHORT TERM PAVEMENT MARKING	FOOT	26142	26142					
	70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	10893	10893					
	70300211	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - PAINT	SQ FT	858	858					
	70300221	TEMPORARY PAVEMENT MARKING - LINE 4"- PAINT	FOOT	179790	179790					
	70300241	TEMPORARY PAVEMENT MARKING - LINE 6"- PAINT	FOOT	3373	3373					
	70300261	TEMPORARY PAVEMENT MARKING - LINE 12"- PAINT	FOOT	540	540					
	70300281	TEMPORARY PAVEMENT MARKING - LINE 24"- PAINT	FOOT	178	178					
	70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	6536	6536					
	72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	36	36					
*	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	286	286					
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	36904	36904					
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1124	1124					
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	180	180					
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	59	59					
				SUMMARY OF QUANTITIES					F.A.P RTE	SHEET NO.
				U.S. RTE 20 (GRANT MEM. HWY.) (W/O HARMONY RD. TO E/O MARENGO RD.)					525	3
				SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.					CONTRACT NO. 62X66	
									ILLINOIS	FED. AID PROJECT

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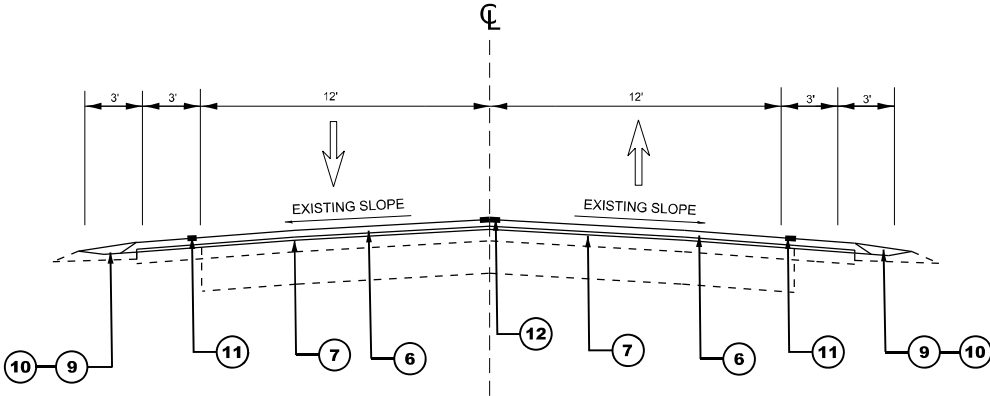
U.S. ROUTE 20
(GRANT MEMORIAL HIGHWAY)



EXISTING TYPICAL SECTION

STA 26+68.5 - STA 50+08.1
STA 61+30.2 - STA 132+84.5
STA 145+81.9 - STA 181+29.7

U.S. ROUTE 20
(GRANT MEMORIAL HIGHWAY)



PROPOSED TYPICAL SECTION

STA 26+68.5 - STA 50+08.1
STA 61.30.2 - STA 132+84.5
STA 145+81.9 - STA 181+29.7

LEGEND

- 1. EXISTING HOT-MIX ASPHALT SURFACE ±6"
- 2. EXISTING P.C.C. OR HMA PAVEMENT ±8"
- 3. EXISTING AGGREGATE SHOULDER
- 4. EXISTING HOT-MIX ASPHALT SHOULDER
- 5. PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2¼"
- 6. PROPOSED HOT-MIX ASPHALT SURFACE COURSE, IL 9.5, MIX "D", N70, 1½"
- 7. PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, ¾"
- 9. PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- 10. PROPOSED GRADING AND SHAPING SHOULDERS
- 11. PROPOSED SHOULDER RUMBLE STRIPS, 8 INCH
- 12. PROPOSED CENTER LINE - RUMBLE STRIP - 16"

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		QMP
MIXTURE TYPE	AIR VOIDS @ Ndesign	
PAVEMENT RESURFACING		
HOT-MIX ASPHALT SURFACE COURSE, 9.5, MIX "D", N70, 1½"	4% @ 70 Gyr.	QCP
POLY. HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50	3.5% @ 50 Gyr.	QCP
PATCHING		
CLASS D PATCHES (HMA BINDER IL-19 mm)	4% @ 70 Gyr.	QC/QA
QMP Designations: Quality Control/Quality Assurance (QC/QA); Quality Control for Performance (QCP); Pay for Performance (PFP)		

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATIONS

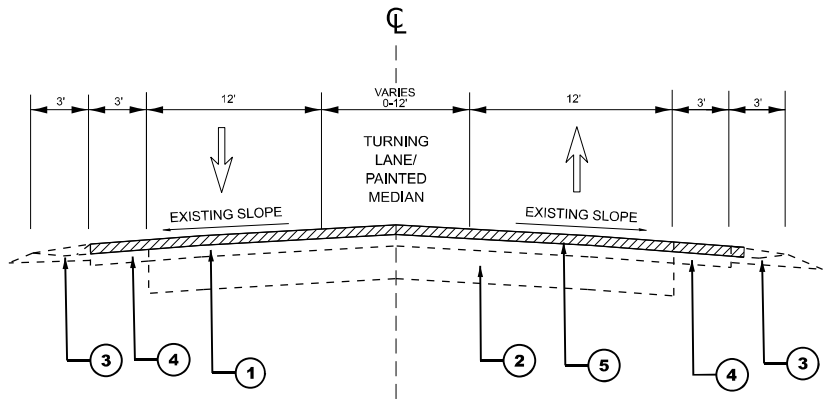
NOTE:

- 1. THE CONTRACTOR SHALL PERFORM THE HMA SURFACE REMOVAL OPERATION FIRST BEFORE PERFORMING THE PAVEMENT PATCHING OPERATIONS. SEE IDOT DISTRICT 1 DETAIL PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD-22) FOR ADDITIONAL INFORMATION.
- 2. LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE POLYMERIZED HMA BINDER COURSE, IL-4.75, N50.
- 3. RUMBLE STRIPS SHALL BE OMITTED WITHIN THE LIMITS OF STRUCTURES, DRIVEWAYS ENTRANCES AND SIDEROADS.

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		DRAWN -	REVISED -				525	2024-1029-RS	MCHENRY	27	5
		CHECKED -	REVISED -				CONTRACT NO. 62X66				
	PLOT DATE = 3/18/2025	DATE -	REVISED -				ILLINOIS FED. AID PROJECT				
				SCALE: NONE		SHEET 1	OF 4	SHEETS	STA.	TO STA.	

U.S. ROUTE 20
(GRANT MEMORIAL HIGHWAY)



EXISTING TYPICAL SECTION

STA 50+08.1 TO STA 56+08.9
STA 132+84.5 TO STA 139+50.1

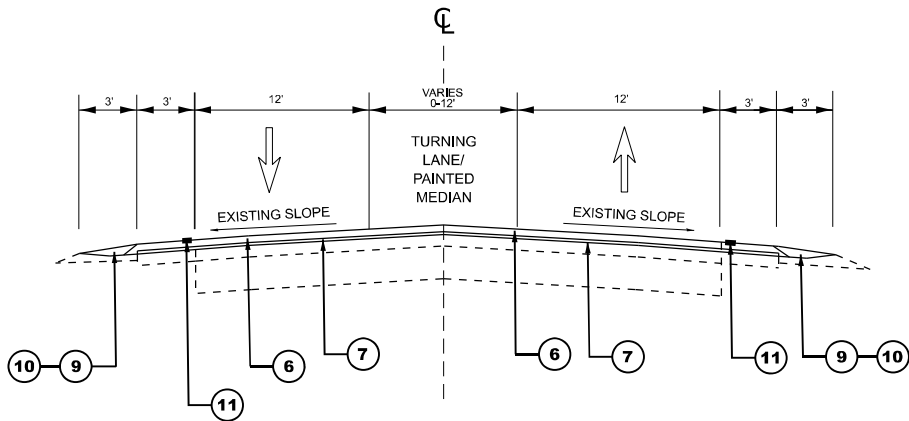
LEGEND

- EXISTING HOT-MIX ASPHALT SURFACE ±6"
- EXISTING P.C.C. OR HMA PAVEMENT ±8"
- EXISTING AGGREGATE SHOULDER
- EXISTING HOT-MIX ASPHALT SHOULDER
- PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2¼"
- PROPOSED HOT-MIX ASPHALT SURFACE COURSE, IL 9.5, MIX "D", N70, 1½"
- PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, ¾"
- PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- PROPOSED GRADING AND SHAPING SHOULDERS
- PROPOSED SHOULDER RUMBLE STRIPS, 8 INCH
- PROPOSED CENTER LINE - RUMBLE STRIP - 16"

NOTE:

- THE CONTRACTOR SHALL PERFORM THE HMA SURFACE REMOVAL OPERATION FIRST BEFORE PERFORMING THE PAVEMENT PATCHING OPERATIONS. SEE IDOT DISTRICT 1 DETAIL PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD-22) FOR ADDITIONAL INFORMATION.
- LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE POLYMERIZED HMA BINDER COURSE, IL-4.75, N50.
- RUMBLE STRIPS SHALL BE OMITTED WITHIN THE LIMITS OF STRUCTURES, DRIVEWAYS ENTRANCES AND SIDEROADS.

U.S. ROUTE 20
(GRANT MEMORIAL HIGHWAY)



PROPOSED TYPICAL SECTION

STA 50+08.1 TO STA 56+08.9
STA 132+84.5 TO STA 139+50.1

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		DRAWN -	REVISED -				525	2024-1029-RS	MCHENRY	27	6
		CHECKED -	REVISED -				CONTRACT NO. 62X66				
	PLOT DATE = 3/18/2025	DATE -	REVISED -		SCALE:	SHEET 2 OF 4 SHEETS	STA.	TO STA.	ILLINOIS	FED. AID PROJECT	

Diagram illustrating a cross-section of a road with a turning lane and painted median. The diagram shows a central 'TURNING LANE/ PAINTED MEDIAN' flanked by 'EXISTING SLOPE' areas. Dimensions include 3' segments, a 'VARIES 0-12'' section, and a 12' section. A dashed line indicates a proposed grade change. Numbered callouts 1 through 5 point to specific features: 1 points to the existing slope on the left, 2 points to the proposed slope on the right, 3 points to the 3' segments on both sides, 4 points to the 3' segments on both sides, and 5 points to the 12' section on the right.

STA 56+08.9 TO STA 58+83.8
STA 139+50.1 TO STA 143+62.2

1. EXISTING HOT-MIX ASPHALT SURFACE $\pm 6"$
2. EXISTING P.C.C. OR HMA PAVEMENT $\pm 8"$
3. EXISTING AGGREGATE SHOULDER
4. EXISTING HOT-MIX ASPHALT SHOULDER
5. PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, $2\frac{1}{4}"$
6. PROPOSED HOT-MIX ASPHALT SURFACE COURSE, IL 9.5, MIX "D", N70, $1\frac{1}{2}"$
7. PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, $\frac{3}{4}"$
9. PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
10. PROPOSED GRADING AND SHAPING SHOULDERS
11. PROPOSED SHOULDER RUMBLE STRIPS, 8 INCH
12. PROPOSED CENTER LINE - RUMBLE STRIP - 16"

1. THE CONTRACTOR SHALL PERFORM THE HMA SURFACE REMOVAL OPERATION FIRST BEFORE PERFORMING THE PAVEMENT PATCHING OPERATIONS. SEE IDOT DISTRICT 1 DETAIL PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD-22) FOR ADDITIONAL INFORMATION.
2. LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE POLYMERIZED HMA BINDER COURSE, IL-4.75, N50.
3. RUMBLE STRIPS SHALL BE OMITTED WITHIN THE LIMITS OF STRUCTURES, DRIVEWAYS ENTRANCES AND SIDEROADS.

Plan view of a proposed road layout. The layout shows a central 12-foot wide turning lane with a painted median. The turning lane is flanked by existing slopes. The total width of the turning lane and slopes is 12 feet. The turning lane is 12 feet wide. The slopes are 12 feet wide. The total width of the turning lane and slopes is 12 feet. The turning lane is 12 feet wide. The slopes are 12 feet wide. The total width of the turning lane and slopes is 12 feet.

STA 56+08.9 TO STA 58+83.8
STA 139+50.1 TO STA 143+62.2

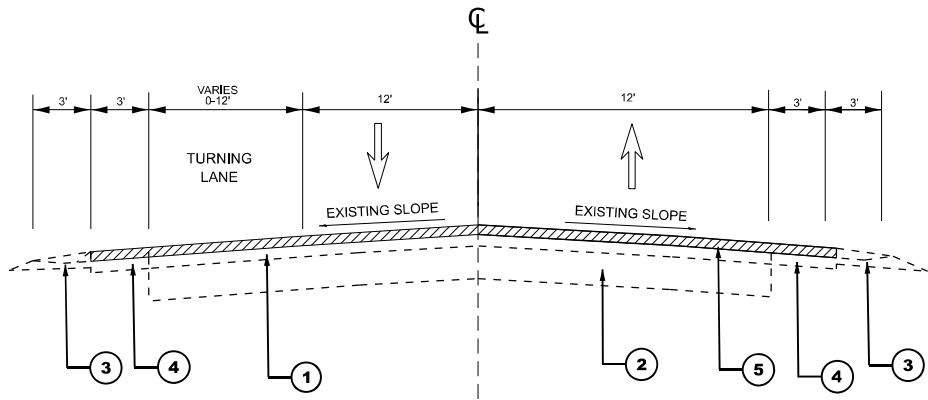
USER NAME = Rana,Kalo	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PL0T DATE = 3/18/2025	DATE -	REVISED -

EXISTING AND PROPOSED TYPICAL SECTIONS				
U.S. RTE 20 (GRANT MEM. HWY.) (W/O HARMONY RD. TO E/O MARENGO RD.)				
SCALE:	SHEET 3	OF 4	SHEETS	STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	2024-1029-RS	MCHENRY	27	7
		CONTRACT NO. 62X66		
		ILLINOIS	FED. AID PROJECT	

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U.S. ROUTE 20
(GRANT MEMORIAL HIGHWAY)



EXISTING TYPICAL SECTION

STA 58+83.8 TO STA 61+30.3
STA 143+62.2 TO STA 145+81.9

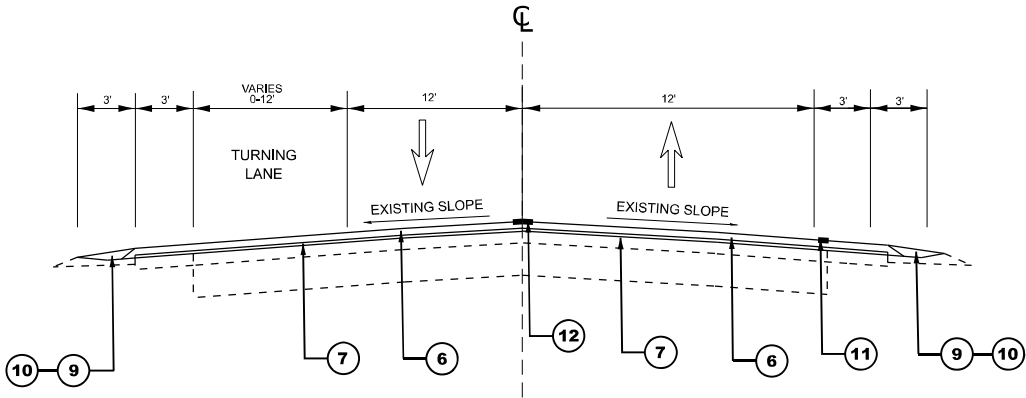
LEGEND

- EXISTING HOT-MIX ASPHALT SURFACE ±6"
- EXISTING P.C.C. OR HMA PAVEMENT ±8"
- EXISTING AGGREGATE SHOULDER
- EXISTING HOT-MIX ASPHALT SHOULDER
- PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"
- PROPOSED HOT-MIX ASPHALT SURFACE COURSE, IL 9.5, MIX "D", N70, 1 1/2"
- PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 3/4"
- PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- PROPOSED GRADING AND SHAPING SHOULDERS
- PROPOSED SHOULDER RUMBLE STRIPS, 8 INCH
- PROPOSED CENTER LINE - RUMBLE STRIP - 16"

NOTE:

- THE CONTRACTOR SHALL PERFORM THE HMA SURFACE REMOVAL OPERATION FIRST BEFORE PERFORMING THE PAVEMENT PATCHING OPERATIONS. SEE IDOT DISTRICT 1 DETAIL PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD-22) FOR ADDITIONAL INFORMATION.
- LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE POLYMERIZED HMA BINDER COURSE, IL-4.75, N50.
- RUMBLE STRIPS SHALL BE OMITTED WITHIN THE LIMITS OF STRUCTURES, DRIVEWAYS ENTRANCES AND SIDEROADS.

U.S. ROUTE 20
(GRANT MEMORIAL HIGHWAY)



PROPOSED TYPICAL SECTION

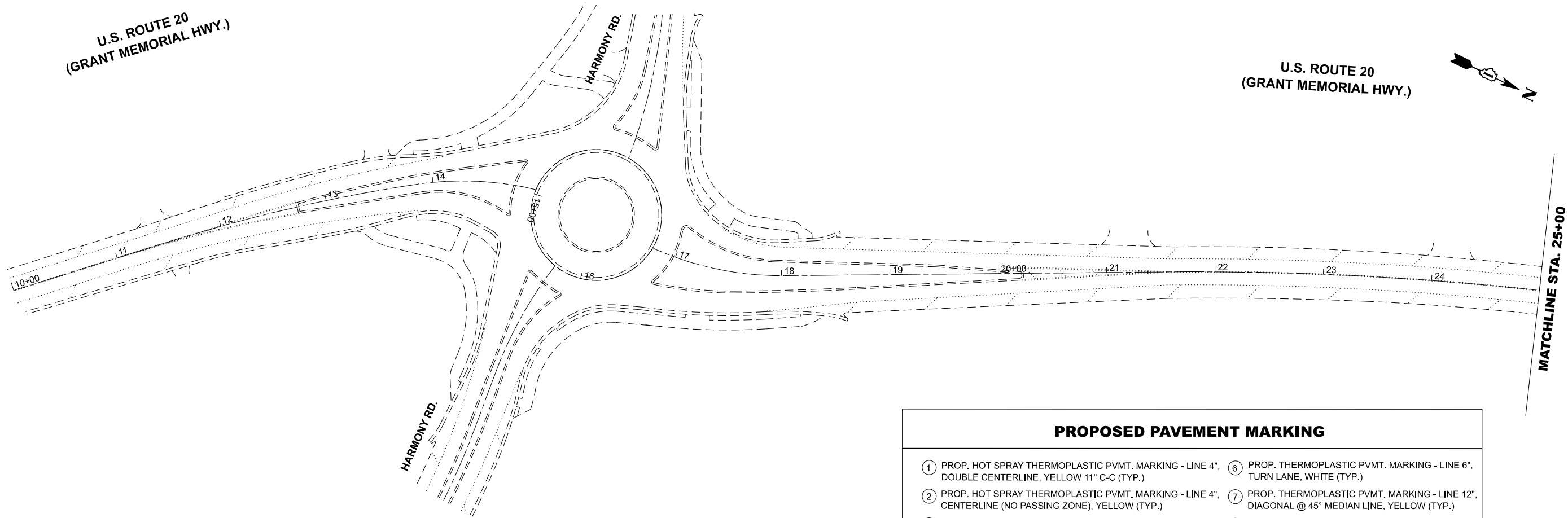
STA 58+83.8 TO STA 61+30.3
STA 143+62.2 TO STA 145+81.9

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	USER NAME = Rana.Kalo	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING AND PROPOSED TYPICAL SECTIONS U.S. RTE 20 (GRANT MEM. HWY.) (W/O HARMONY RD. TO E/O MARENGO RD.)		F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -				525	2024-1029-RS	MCHENRY	27	8
		CHECKED -	REVISED -				CONTRACT NO. 62X66				
	PLOT DATE = 3/18/2025	DATE -	REVISED -				ILLINOIS FED. AID PROJECT				
SCALE:		SHEET 4	OF 4	SHEETS	STA.	TO STA.					

U.S. ROUTE 20
(GRANT MEMORIAL HWY.)

U.S. ROUTE 20
(GRANT MEMORIAL HWY.)



PROPOSED PAVEMENT MARKING

- | | |
|--|---|
| ① PROP. HOT SPRAY THERMOPLASTIC PVMT. MARKING - LINE 4", DOUBLE CENTERLINE, YELLOW 11" C-C (TYP.) | ⑥ PROP. THERMOPLASTIC PVMT. MARKING - LINE 6", TURN LANE, WHITE (TYP.) |
| ② PROP. HOT SPRAY THERMOPLASTIC PVMT. MARKING - LINE 4", CENTERLINE (NO PASSING ZONE), YELLOW (TYP.) | ⑦ PROP. THERMOPLASTIC PVMT. MARKING - LINE 12", DIAGONAL @ 45° MEDIAN LINE, YELLOW (TYP.) |
| ③ PROP. THERMOPLASTIC PVMT MARKING - LINE 4", EDGE LINE, WHITE (TYP.) | ⑧ PROP. THERMOPLASTIC PVMT. MARKING - LINE 24", STOP BAR, WHITE (TYP.) |
| ④ PROP. HOT SPRAY THERMOPLASTIC PVMT MARKING - LINE 4", 10' DASH, 30' SKIP, YELLOW (TYP.) | ⑨ PROP. THERMOPLASTIC PVMT. MARKING - LETTERS AND SYMBOLS, WHITE (TYP.) |
| ⑤ PROP. THERMOPLASTIC PVMT MARKING - LINE 6", 2' DASH, 6' SKIP, WHITE (TYP.) | ⑩ PROP. THERMOPLASTIC PVMT. MARKING - LINE 4", DOUBLE CENTERLINE, YELLOW 11" C-C (TYP.) |

PROJECT LIMITS
STA. 26 + 68.5

U.S. ROUTE 20
(GRANT MEMORIAL HWY.)

PROP. HOT-MIX ASPHALT SURFACE REMOVAL, 2 ¼"
PROP. HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, 1 ½"
POLY. HOT-MIX ASPHALT BINDER COURSE IL-4.75, N50, ¾"

PROP. SHOULDER RUMBLE STRIPS, 8 INCH

PROP. GRADING AND SHAPING SHOULDERS
PROP. AGGREGATE WEDGE SHOULDER, TYPE B

MATCHLINE STA. 25+00

MATCHLINE STA. 40+00



PROP. CENTER LINE - RUMBLE STRIP - 16"

NOTES:

- GRADING AND SHAPING DITCHES FINAL LOCATIONS TO BE DETERMINED IN THE FIELD BY THE ENGINEER. FLOW SHOULD BE MAINTAINED.
- SEE RUMBLE STRIPS DETAILS. IDOT STANDARDS 642006-01 - SHOULDER RUMBLE STRIPS, 8 IN AND BD 55 - RUMBLE STRIPS FOR CENTERLINE, NON-FREEWAY FOR DETAIL.
- RUMBLE STRIPS SHALL BE OMITTED WITHIN THE LIMITS OF STRUCTURES, DRIVEWAY ENTRANCES, AND SIDEROADS.
- ALL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH TC-11 "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" STANDARD DETAIL.
- ALL PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH TC-13 "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" STANDARD DETAIL.

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USER NAME = Rana.Kalo	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 4/22/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

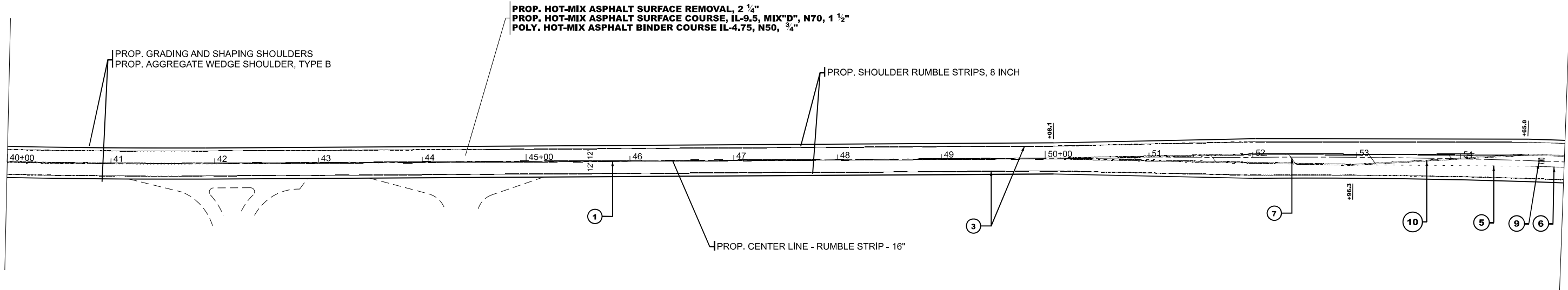
ROADWAY PLANS			
U.S. RTE 20 (GRANT MEM. HWY.) (W/O HARMONY RD. TO E/O MARENGO RD.)			
SCALE: 1"=50'	SHEET 1	OF 7 SHEETS	STA. 10+00.00 TO STA. 40+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	2024-1029-RS	MCHENRY	27	9
CONTRACT NO. 62X66				
ILLINOIS FED. AID PROJECT				

MODEL: US 20-2 (Sheet)
FILE NAME: c:\p\work\p\work\kalo\m\1038380\105725-sh-td-ban.dgn

MATCHLINE STA. 40+00

U.S. ROUTE 20
(GRANT MEMORIAL HWY.)



MATCHLINE STA. 55+00

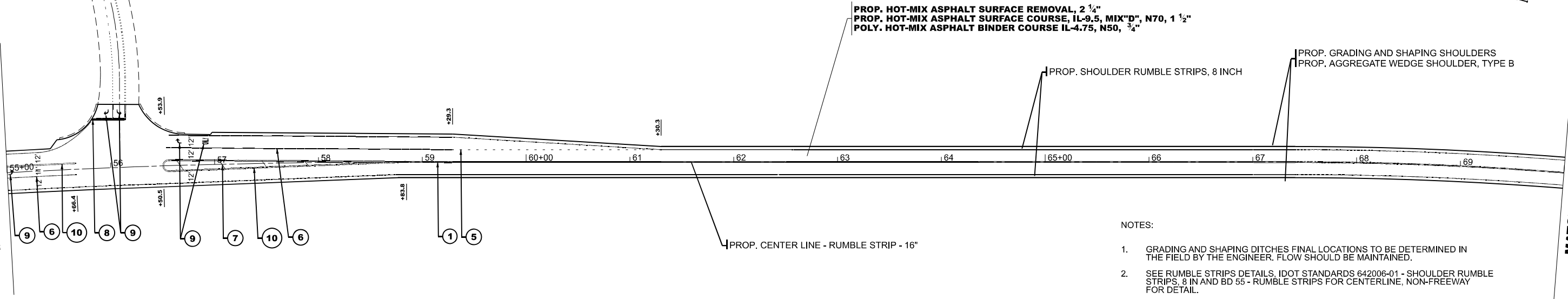
PROPOSED PAVEMENT MARKING

- | | |
|--|---|
| ① PROP. HOT SPRAY THERMOPLASTIC PVMT. MARKING - LINE 4", DOUBLE CENTERLINE, YELLOW 11" C-C (TYP.) | ⑥ PROP. THERMOPLASTIC PVMT. MARKING - LINE 6", TURN LANE, WHITE (TYP.) |
| ② PROP. HOT SPRAY THERMOPLASTIC PVMT. MARKING - LINE 4", CENTERLINE (NO PASSING ZONE), YELLOW (TYP.) | ⑦ PROP. THERMOPLASTIC PVMT. MARKING - LINE 12", DIAGONAL @ 45° MEDIAN LINE, YELLOW (TYP.) |
| ③ PROP. THERMOPLASTIC PVMT MARKING - LINE 4", EDGE LINE, WHITE (TYP.) | ⑧ PROP. THERMOPLASTIC PVMT. MARKING - LINE 24", STOP BAR, WHITE (TYP.) |
| ④ PROP. HOT SPRAY THERMOPLASTIC PVMT MARKING - LINE 4", 10' DASH, 30' SKIP, YELLOW (TYP.) | ⑨ PROP. THERMOPLASTIC PVMT. MARKING - LETTERS AND SYMBOLS, WHITE (TYP.) |
| ⑤ PROP. THERMOPLASTIC PVMT MARKING - LINE 6", 2' DASH, 6' SKIP, WHITE (TYP.) | ⑩ PROP. THERMOPLASTIC PVMT. MARKING - LINE 4", DOUBLE CENTERLINE, YELLOW 11" C-C (TYP.) |

U.S. ROUTE 20
(GRANT MEMORIAL HWY.)



MATCHLINE STA. 55+00



MATCHLINE STA. 70+00

NOTES:

- GRADING AND SHAPING DITCHES FINAL LOCATIONS TO BE DETERMINED IN THE FIELD BY THE ENGINEER. FLOW SHOULD BE MAINTAINED.
- SEE RUMBLE STRIPS DETAILS, IDOT STANDARDS 642006-01 - SHOULDER RUMBLE STRIPS, 8 IN AND BD 55 - RUMBLE STRIPS FOR CENTERLINE, NON-FREEWAY FOR DETAIL.
- RUMBLE STRIPS SHALL BE OMITTED WITHIN THE LIMITS OF STRUCTURES, DRIVEWAY ENTRANCES, AND SIDEROADS.
- ALL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH TC-11 "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" STANDARD DETAIL.
- ALL PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH TC-13 "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" STANDARD DETAIL.

USER NAME = Rana.Kalo	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 4/22/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLANS
U.S. RTE 20 (GRANT MEM. HWY.) (W/O HARMONY RD. TO E/O MARENGO RD.)

SCALE: 1"=50' SHEET 2 OF 7 SHEETS STA. 40+00.00 TO STA. 70+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	2024-1029-RS	MCHENRY	27	10
CONTRACT NO. 62X66				
ILLINOIS FED. AID PROJECT				

MODEL: US 20-3 (Sheet)
FILE NAME: c:\p\work\wtk\kabr\m\1039380\105725-sh-r-plan.dgn

MATCHLINE STA. 70+00

CHURCH RD.

U.S. ROUTE 20
(GRANT MEMORIAL HWY.)

PROP. HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"
PROP. HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX"D", N70, 1 1/2"
POLY. HOT-MIX ASPHALT BINDER COURSE IL-4.75, N50, 3/4"

PROP. GRADING AND SHAPING SHOULDERS
PROP. AGGREGATE WEDGE SHOULDER, TYPE B

PROP. SHOULDER RUMBLE STRIPS, 8 INCH

PROP. CENTER LINE - RUMBLE STRIP - 16"

MATCHLINE STA. 85+00

PROPOSED PAVEMENT MARKING

- | | |
|--|---|
| ① PROP. HOT SPRAY THERMOPLASTIC PVMT. MARKING - LINE 4", DOUBLE CENTERLINE, YELLOW 11" C-C (TYP.) | ⑥ PROP. THERMOPLASTIC PVMT. MARKING - LINE 6", TURN LANE, WHITE (TYP.) |
| ② PROP. HOT SPRAY THERMOPLASTIC PVMT. MARKING - LINE 4", CENTERLINE (NO PASSING ZONE), YELLOW (TYP.) | ⑦ PROP. THERMOPLASTIC PVMT. MARKING - LINE 12", DIAGONAL @ 45° MEDIAN LINE, YELLOW (TYP.) |
| ③ PROP. THERMOPLASTIC PVMT MARKING - LINE 4", EDGE LINE, WHITE (TYP.) | ⑧ PROP. THERMOPLASTIC PVMT. MARKING - LINE 24", STOP BAR, WHITE (TYP.) |
| ④ PROP. HOT SPRAY THERMOPLASTIC PVMT MARKING - LINE 4", 10' DASH, 30' SKIP, YELLOW (TYP.) | ⑨ PROP. THERMOPLASTIC PVMT. MARKING - LETTERS AND SYMBOLS, WHITE (TYP.) |
| ⑤ PROP. THERMOPLASTIC PVMT MARKING - LINE 6", 2' DASH, 6' SKIP, WHITE (TYP.) | ⑩ PROP. THERMOPLASTIC PVMT. MARKING - LINE 4", DOUBLE CENTERLINE, YELLOW 11" C-C (TYP.) |

U.S. ROUTE 20
(GRANT MEMORIAL HWY.)

PROP. HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"
PROP. HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX"D", N70, 1 1/2"
POLY. HOT-MIX ASPHALT BINDER COURSE IL-4.75, N50, 3/4"

PROP. SHOULDER RUMBLE STRIPS, 8 INCH

PROP. CENTER LINE - RUMBLE STRIP - 16"

MATCHLINE STA. 100+00

STA 93+93.2 - STA 100+0.0

NOTES:

- GRADING AND SHAPING DITCHES FINAL LOCATIONS TO BE DETERMINED IN THE FIELD BY THE ENGINEER. FLOW SHOULD BE MAINTAINED.
- SEE RUMBLE STRIPS DETAILS. IDOT STANDARDS 642006-01 - SHOULDER RUMBLE STRIPS, 8 IN AND BD 55 - RUMBLE STRIPS FOR CENTERLINE, NON-FREEWAY FOR DETAIL.
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- ALL PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH TC-13 "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" STANDARD DETAIL.

	USER NAME = Rana.Kalo	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
	PLOT DATE = 4/22/2025	DATE -	REVISED -

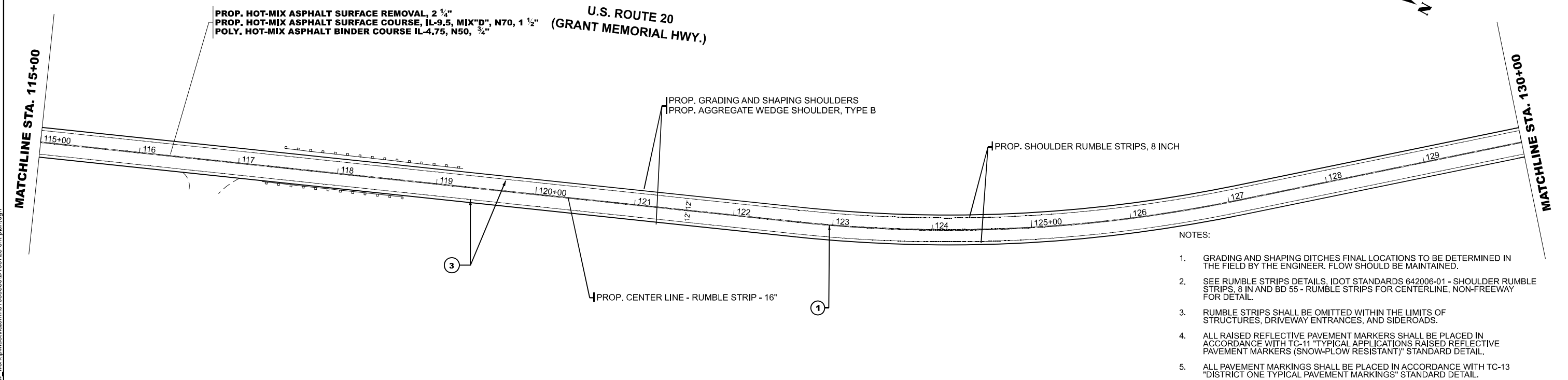
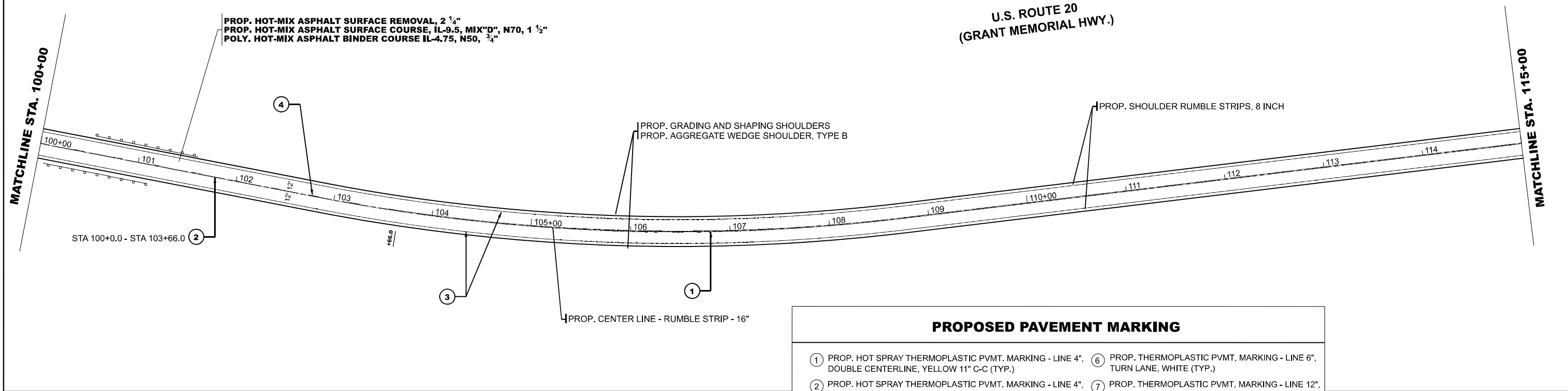
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLANS
U.S. RTE 20 (GRANT MEM. HWY.) (W/O HARMONY RD. TO E/O MARENGO RD.)

SCALE: 1"=50' SHEET 3 OF 7 SHEETS STA. 70+00.00 TO STA. 100+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	2024-1029-RS	MCHENRY	27	11
CONTRACT NO. 62X66				
ILLINOIS FED. AID PROJECT				

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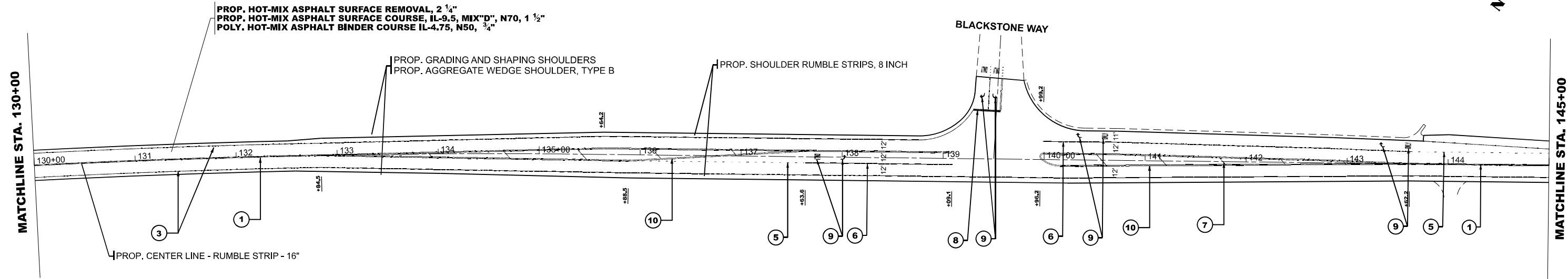
USER NAME = Rana.Kalo	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 4/22/2025	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROADWAY PLANS			
U.S. RTE 20 (GRANT MEM. HWY.) (W/O HARMONY RD. TO E/O MARENGO RD.)			
SCALE: 1"=50'	SHEET 4	OF 7 SHEETS	STA. 100+00.00 TO STA. 130+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	2024-1029-RS	MCHENRY	27	12
CONTRACT NO. 62X66				
ILLINOIS FED. AID PROJECT				

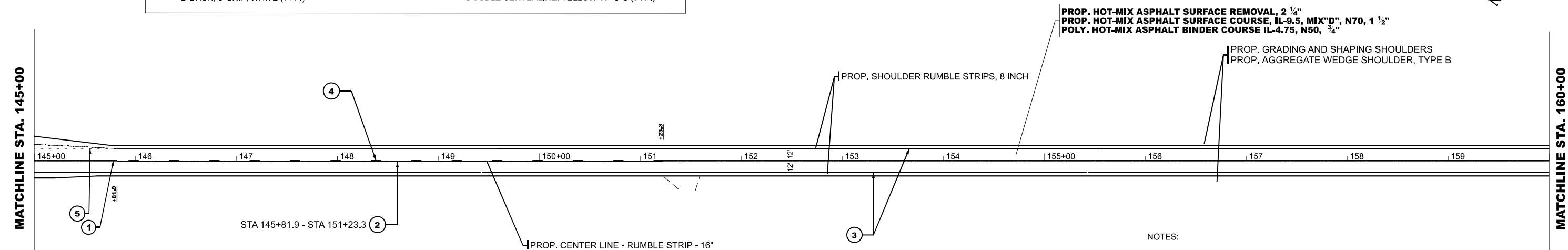
**U.S. ROUTE 20
(GRANT MEMORIAL HWY.)**



PROPOSED PAVEMENT MARKING

- | | | | |
|---|--|---|---|
| ① | PROP. HOT SPRAY THERMOPLASTIC PVMT. MARKING - LINE 4", DOUBLE CENTERLINE, YELLOW 11" C-C (TYP.) | ⑥ | PROP. THERMOPLASTIC PVMT. MARKING - LINE 6", TURN LANE, WHITE (TYP.) |
| ② | PROP. HOT SPRAY THERMOPLASTIC PVMT. MARKING - LINE 4", CENTERLINE (NO PASSING ZONE), YELLOW (TYP.) | ⑦ | PROP. THERMOPLASTIC PVMT. MARKING - LINE 12", DIAGONAL @ 45° MEDIAN LINE, YELLOW (TYP.) |
| ③ | PROP. THERMOPLASTIC PVMT MARKING - LINE 4", EDGE LINE, WHITE (TYP.) | ⑧ | PROP. THERMOPLASTIC PVMT. MARKING - LINE 24", STOP BAR, WHITE (TYP.) |
| ④ | PROP. HOT SPRAY THERMOPLASTIC PVMT MARKING - LINE 4", 10' DASH, 30' SKIP, YELLOW (TYP.) | ⑨ | PROP. THERMOPLASTIC PVMT. MARKING - LETTERS AND SYMBOLS, WHITE (TYP.) |
| ⑤ | PROP. THERMOPLASTIC PVMT MARKING - LINE 6", 2' DASH, 6' SKIP, WHITE (TYP.) | ⑩ | PROP. THERMOPLASTIC PVMT. MARKING - LINE 4", DOUBLE CENTERLINE, YELLOW 11" C-C (TYP.) |

**U.S. ROUTE 20
(GRANT MEMORIAL HWY.)**



NOTE

1. GRADING AND SHAPING DITCHES FINAL LOCATIONS TO BE DETERMINED IN THE FIELD BY THE ENGINEER. FLOW SHOULD BE MAINTAINED.
2. SEE RUMBLE STRIPS DETAILS. IDOT STANDARDS 642006-01 - SHOULDER RUMBLE STRIPS, 8 IN AND BD 55 - RUMBLE STRIPS FOR CENTERLINE, NON-FREEWAY FOR DETAIL.
3. RUMBLE STRIPS SHALL BE OMITTED WITHIN THE LIMITS OF STRUCTURES, DRIVEWAY ENTRANCES, AND SIDEROADS.
4. ALL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH TC-11 "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-LOW RESISTANT)" STANDARD DETAIL.
5. ALL PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH TC-13 "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" STANDARD DETAIL.

USER NAME = Rana,Kalo	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 4/22/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

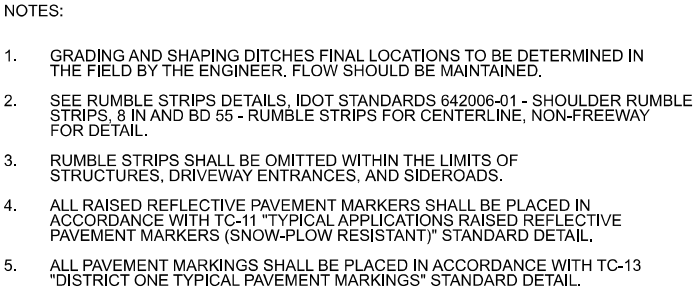
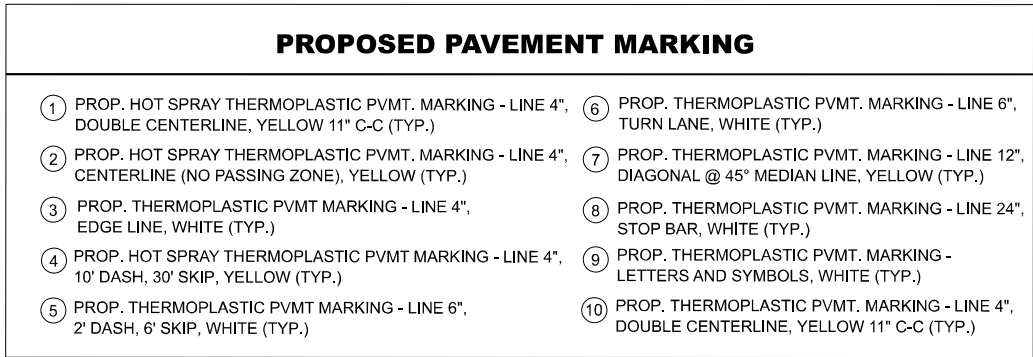
ROADWAY PLAN

U.S. RTE 20 (GRANT MEM. HWY.) (W/O HARMONY RD. TO E/O MARENGO RD)

SCALE: 1"=50'	SHEET 5	OF 7	SHEETS	STA. 130+00.00	TO STA. 160+00.00
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F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	2024-1029-RS	MCHENRY	27	13
		CONTRACT NO. 62X66		
ILLINOIS		FED. AID PROJECT		

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USER NAME = Rana,Kalo	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 4/22/2025	DATE -	REVISED -

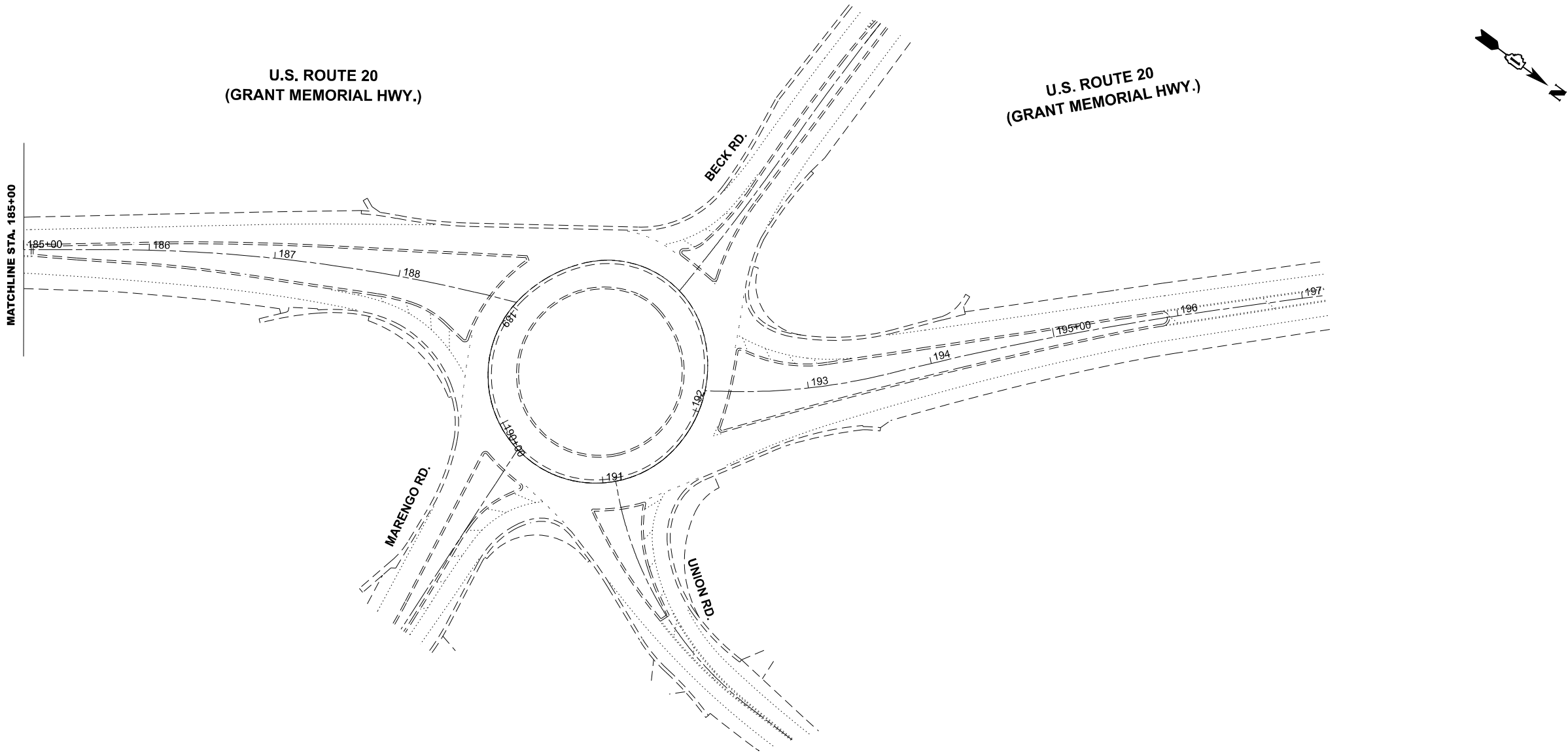
ROADWAY PLANS
U.S. RTE 20 (GRANT MEM. HWY.) (W/O HARMONY RD. TO E/O MARENGO RD.)

SCALE: 1"=50'	SHEET 6	OF 7	SHEETS	STA. 160+00.00	TO STA. 185+00.00
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F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	2024-1029-RS	MCHENRY	27	14
		CONTRACT NO. 62X66		
ILLINOIS		FED. AID PROJECT		

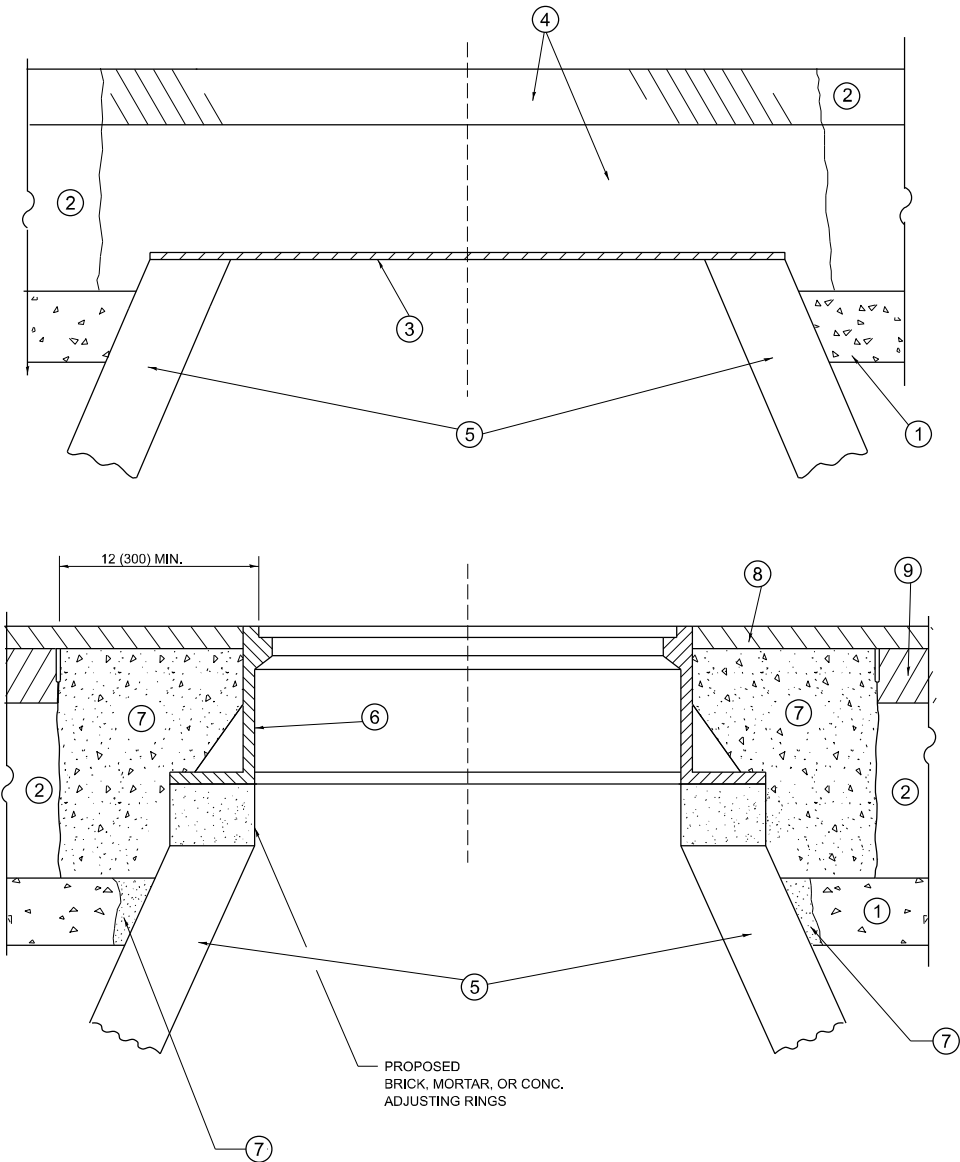
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	USER NAME = Rana.Kalo	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY PLANS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					525	2024-1029-RS	MCHENRY	27	15
		CHECKED -	REVISED -		U.S. RTE 20 (GRANT MEM. HWY.) (W/O HARMONY RD. TO E/O MARENGO RD.)			CONTRACT NO. 62X66				
	PLOT DATE = 3/18/2025	DATE -	REVISED -		SCALE: 1"=50'	SHEET 7	OF 7 SHEETS	STA. 185+00.00	TO STA. 200+00.00	ILLINOIS FED. AID PROJECT		

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

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.
- THE CONTRACTOR SHALL REMOVE ALL TRAFFIC CONTROL DEVICES BY THE END OF EACH WORK SHIFT.

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- BACKFILL WITH CRUSHED STONE AND HMA SURFACE MIX APPROVED BY THE ENGINEER. (MIN. 3 (80) HMA TO REMAIN AFTER MILLING).

STAGE 2 (AFTER PAVEMENT MILLING)

- REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-2* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

*UNLESS OTHERWISE SPECIFIED IN THE PLANS.

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

LEGEND

- | | |
|--|-------------------------------|
| ① SUB-BASE GRANULAR MATERIAL | ⑥ FRAME AND LID (SEE NOTES) |
| ② EXISTING PAVEMENT | ⑦ CLASS PP-2* CONCRETE |
| ③ 36 (900) DIAMETER METAL PLATE | ⑧ PROPOSED HMA SURFACE COURSE |
| ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX | ⑨ PROPOSED HMA BINDER COURSE |
| ⑤ EXISTING STRUCTURE | |

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.
- 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.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

	USER NAME = Rana.Kalo	DESIGNED - R. SHAH	REVISED - R. BORO 03-09-11	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING			F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED - R. BORO 12-06-11					525	2024-1029-RS	MCHENRY	27	16
		CHECKED -	REVISED - K. SMITH 11-18-22		BD600-03 (BD-08)			CONTRACT NO. 62X66				
	PLOT DATE = 3/18/2025	DATE - 10-25-94	REVISED - K. SMITH 09-15-23		SCALE: NONE	SHEET 1	OF 1 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

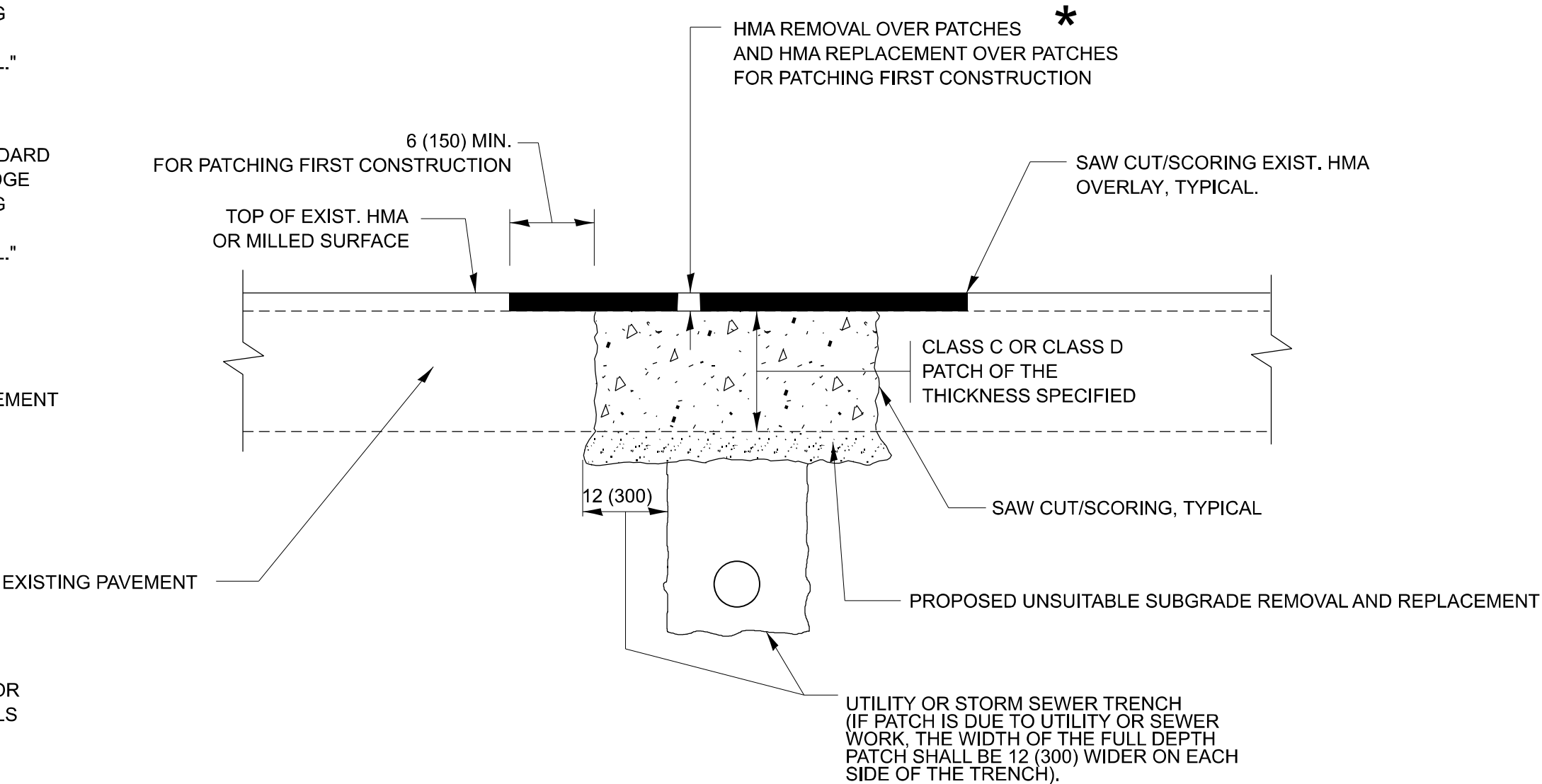
METHOD OF MEASUREMENT

REFER TO SECTION 442 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL."

BASIS OF PAYMENT

- 1. REFER TO SECTION 442 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL."
- 2. SAW CUT/SCORING OF EXISTING HMA OVERLAY IS INCLUDED IN THE COST OF PAVEMENT PATCHING.
- 3. SAW CUT/SCORING OF EXISTING PAVEMENT IS INCLUDED IN THE COST OF PAVEMENT PATCHING.

* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS



SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

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

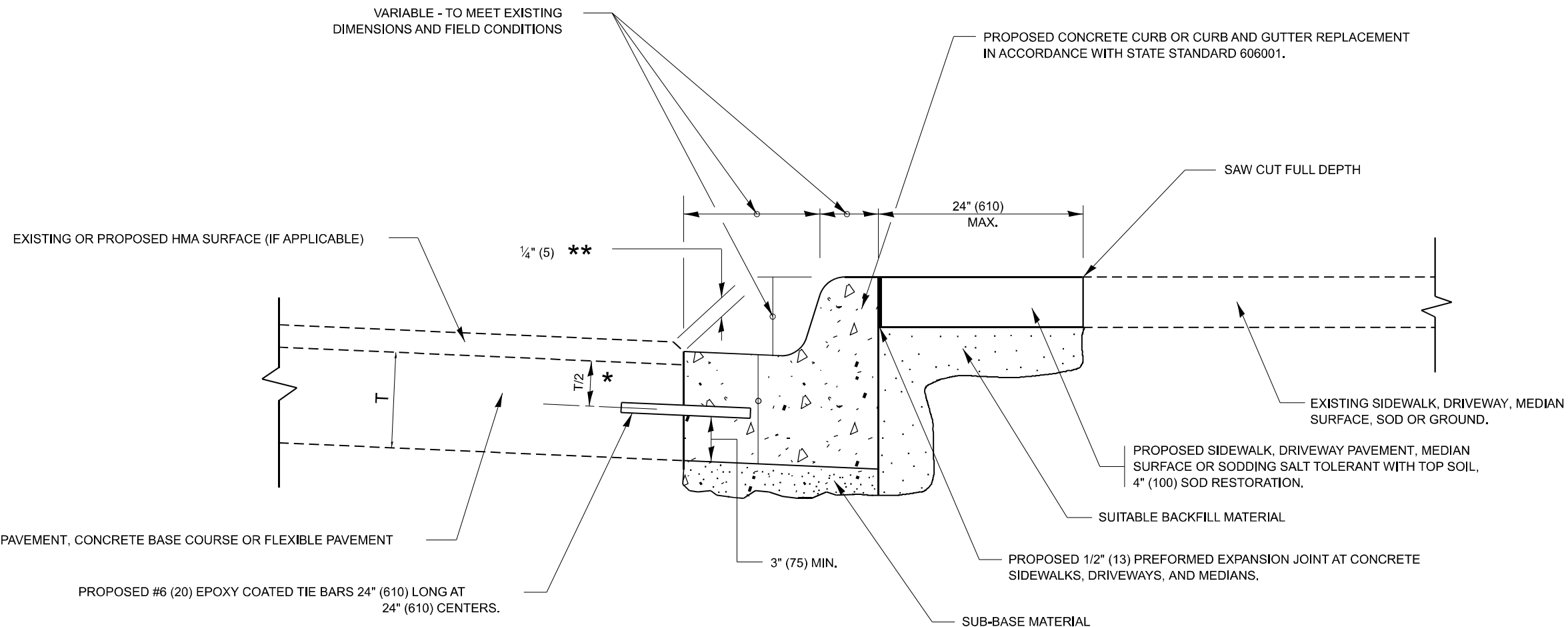
SEQUENCE OF CONSTRUCTION (MILLING FIRST)

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

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

MODEL: BD-22 (Sheet)
FILE NAME: c:\pav_work\pav\dist\kalo\mtd1038380\105725-sh1-dist\stds.dgn

	USER NAME	= Rana.Kalo	DESIGNED	-	R. SHAH	REVISED	-	R. BORO 01-01-07	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT				F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			DRAWN	-		REVISED	-	R. BORO 09-04-07						525	2024-1029-RS	MCHENRY	27	17
			CHECKED	-		REVISED	-	K. ENG 10-27-08						BD400-04 (BD-22)		CONTRACT NO. 62X66		
	PLOT DATE	= 3/18/2025	DATE	-	10-25-94	REVISED	-	K. SMITH 11-18-22		ILLINOIS FED. AID PROJECT								
										SCALE: NONE	SHEET 1	OF 1	SHEETS	STA.	TO STA.			



- * 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.

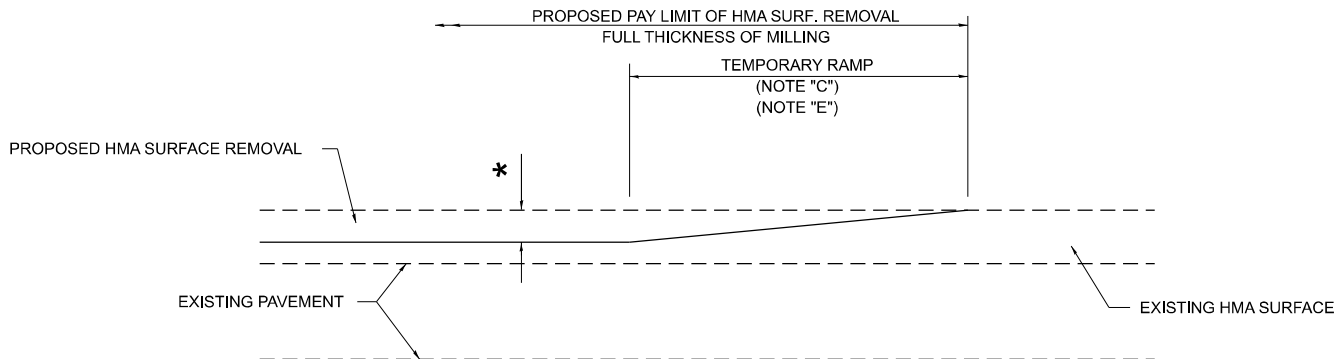
CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

MODEL: BD-24 (Sheet)
FILE NAME: c:\p\work\p\work\kalo\m\1038380\105725-sh+Dist\Std.sgn

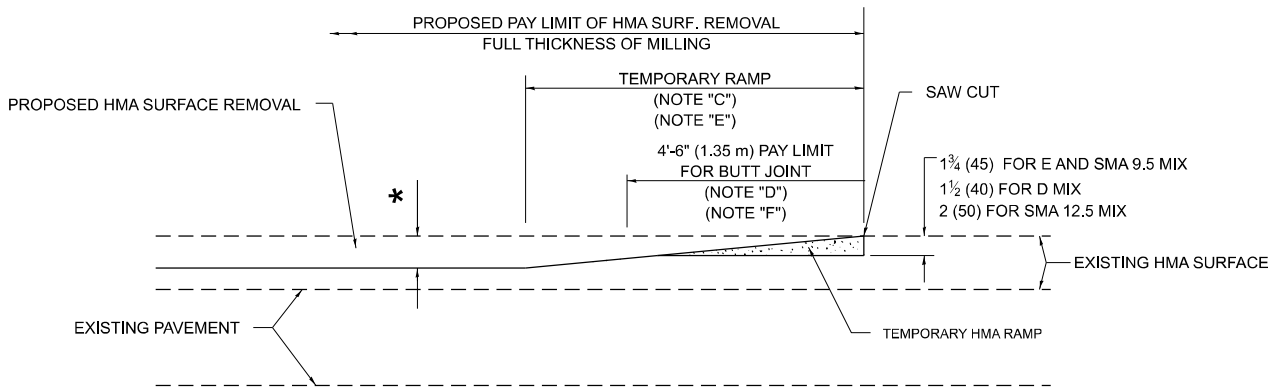
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USER NAME = Rana.Kalo	DESIGNED - A. HOUSEH	REVISED - A. ABBAS 03-21-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT					F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED - M. GOMEZ 01-22-01							525	2024-1029-RS	MCHENRY	27	18
	CHECKED -	REVISED - R. BORO 12-15-09							BD600-06 (BD-24)		CONTRACT NO. 62X66		
PLOT DATE = 3/18/2025	DATE - 03-11-94	REVISED - K. SMITH 07-11-19							ILLINOIS FED. AID PROJECT				
				SCALE: NONE		SHEET 1	OF 1	SHEETS	STA.	TO STA.			



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

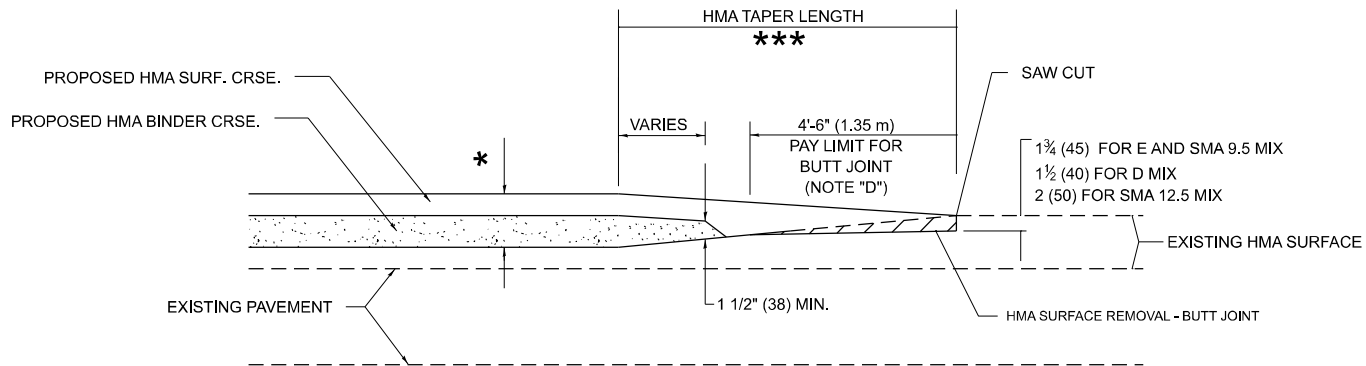
OPTION 1



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

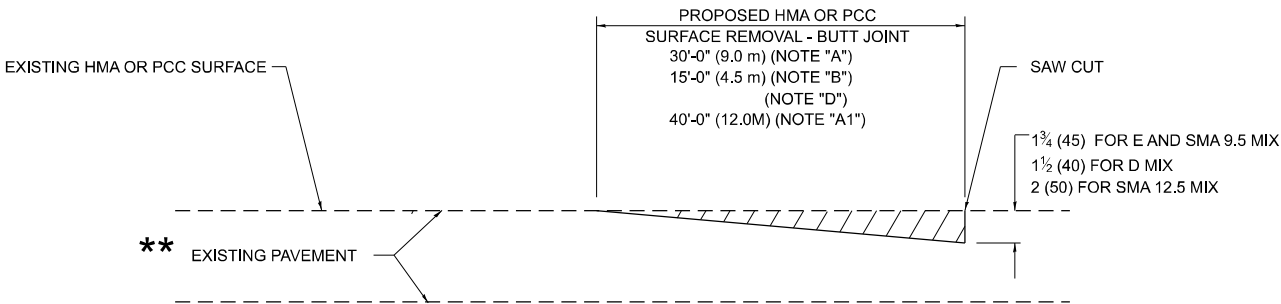
OPTION 2

TYPICAL TEMPORARY RAMP

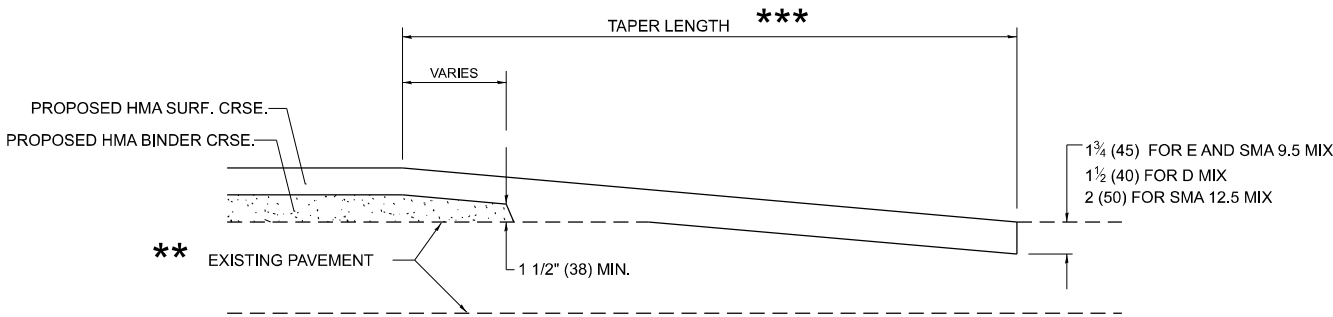


**BUTT JOINT AND
HMA TAPER**

**TYPICAL BUTT JOINT AND HMA TAPER
FOR MILLING AND RESURFACING**



BUTT JOINT DETAIL



HMA TAPER DETAIL

**TYPICAL BUTT JOINT AND HMA TAPER
FOR RESURFACING ONLY**

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

GENERAL NOTES

- A. MAINLINE ARTERIAL ROADWAYS AND MAJOR SIDE ROADS.
- A1. INTERSTATES
- 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' - 4" (1.02m) PER 1 INCH (25 mm) OF MILLING THICKNESS.
***** SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- F. 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

- 1. 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".
- 2. THE TEMPORARY RAMP AND SAW CUT SHALL BE INCLUDED IN THE UNIT COST FOR HMA OR PCC SURFACE REMOVAL-BUTT JOINT.

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

MODEL: BD-32 [Sheet]
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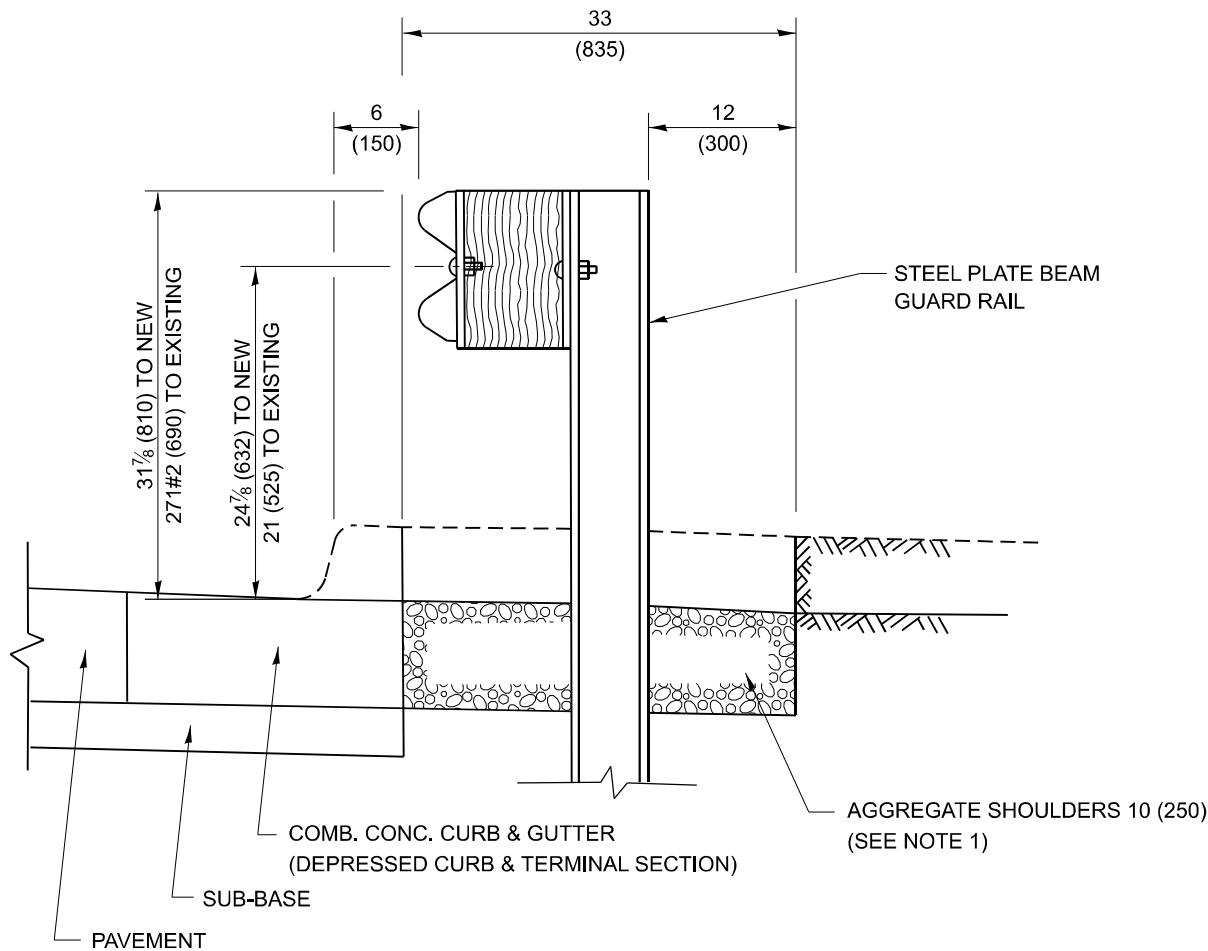
USER NAME	= Rana.Kalo	DESIGNED -	M. DE YONG	REVISED -	A. ABBAS 03-21-97
		DRAWN -		REVISED -	M. GOMEZ 04-06-01
		CHECKED -		REVISED -	R. BORO 01-01-07
PLOT DATE	= 3/18/2025	DATE -	06-13-90	REVISED -	K. SMITH 11-18-22

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.
525	2024-1029-RS	MCHENRY	27	19
BD400-05 BD-32		CONTRACT NO. 62X66		
		ILLINOIS	FED. AID PROJECT	

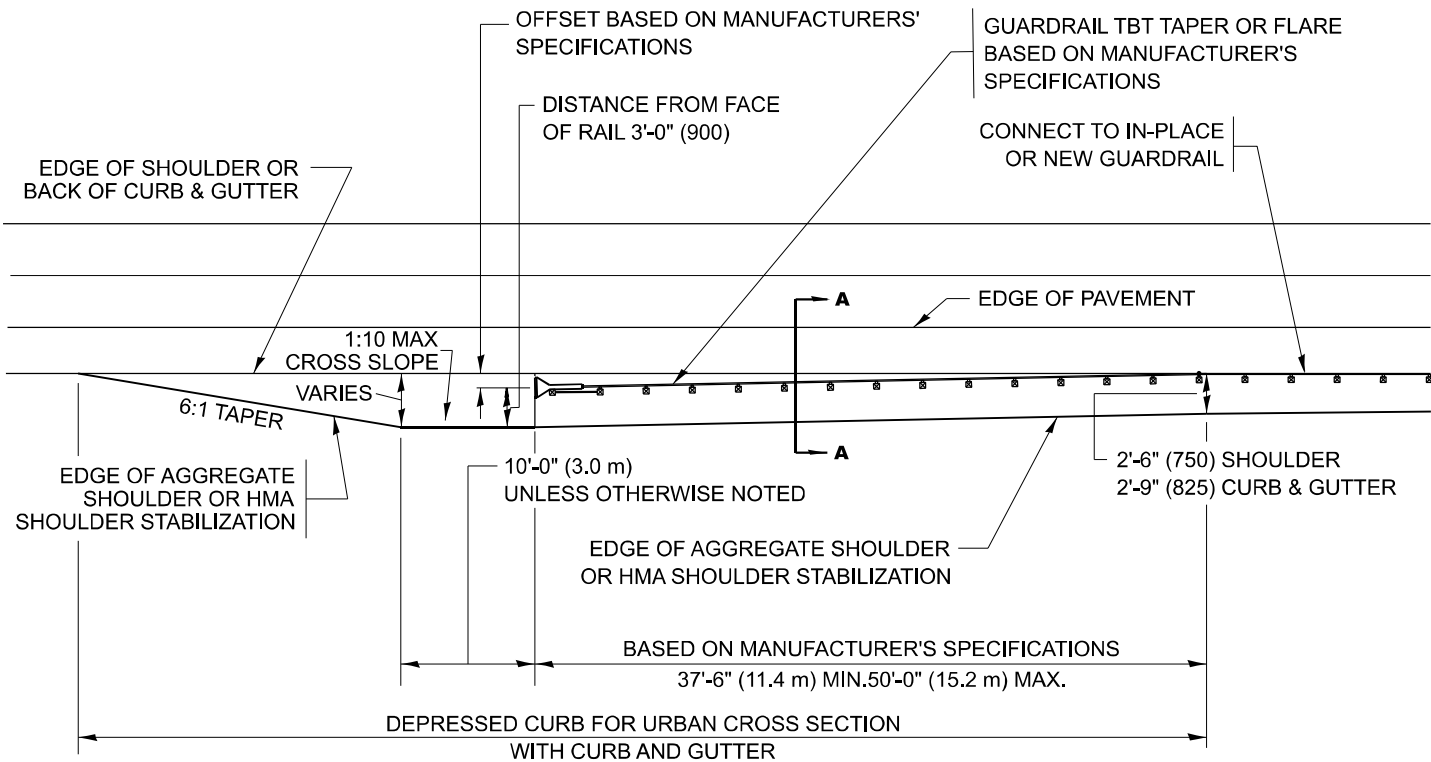


SECTION A-A

NOTES:

1. THE AGGREGATE SHOULDER, 10 (250) OR HMA SHOULDER, 6 (150) (IF REQUIRED) SHALL EXTEND UNDER THE TRAFFIC BARRIER TERMINAL.
2. "EXISTING" GUARDRAIL REFERS TO CONNECTING TERMINAL SECTION TO GUARD RAILING PRIOR TO THE MIDWEST GUARDRAIL SYSTEM.
3. THE CONTRACTOR SHALL VERIFY THE TYPE/HEIGHT OF GUARDRAIL IN-PLACE BEFORE ORDERING THE NEW TERMINAL SECTION. COST INCLUDED WITH THE COST OF THE TERMINAL. THE EXISTING GUARDRAIL HEIGHT SHALL TRANSITION TO MATCH THE NEW TERMINAL END SECTION AND SHALL BE PAID FOR AS VERTICAL ADJUSTMENT OF EXISTING GUARDRAIL.

**DETAILS FOR STEEL PLATE BEAM GUARD RAIL
ADJACENT TO CURB AND GUTTER [FOR
ROADWAY SPEED 35 MPH (60 kmh) TO 45 MPH (70 kmh)]**



**DEPRESSED CURB AND GUTTER AND
SHOULDER TREATMENT AT TBT TY. 1 SPL.**

AGGREGATE SHOULDER, 10 (250) WILL BE PAID
ACCORDING TO SECTION 481.

HMA SHOULDERS 6 (150) (IF REQUIRED) WILL BE
PAID ACCORDING TO SECTION 482.

COMB. CONC. C&G, STEEL PLATE BEAM GUARD RAIL
AND TRAFFIC BARRIER TERMINAL, OF THE TYPE
SPECIFIED WILL BE PAID FOR SEPARATELY.

TBT = TRAFFIC BARRIER TERMINAL
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN.

MODEL: BD-34 [Sheet]
FILE NAME: c:\p\work\kalo\kalo\mtd103380\105725-sh1-dist\stds.dgn

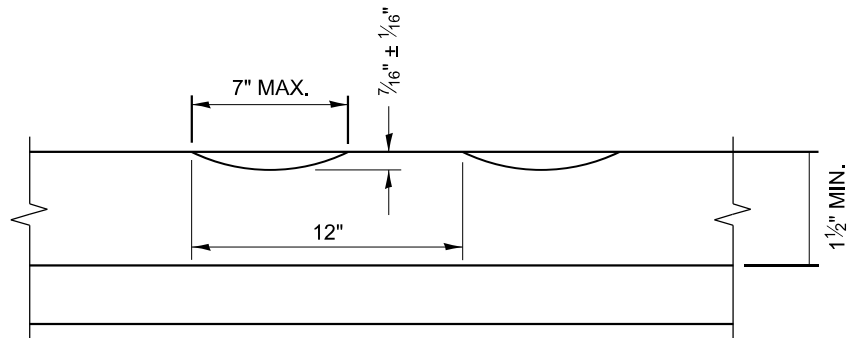
USER NAME	= Rana.Kalo	DESIGNED -	M. DE YONG	REVISED -	R. BORO 09-14-2009
		DRAWN -		REVISED -	R. BORO 08-06-2012
		CHECKED -		REVISED -	R. BORO 05-08-2015
PLOT DATE	= 3/18/2025	DATE	= 09-22-90	REVISED -	K. SMITH 11-18-22

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

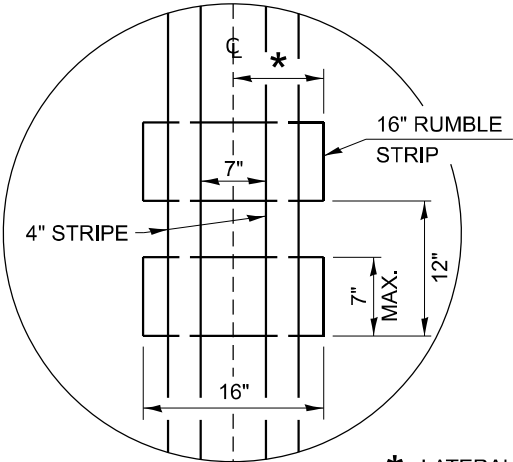
**DETAILS FOR DEPRESSED CURB & GUTTER AND
SHOULDER TREATMENT AT TBT TY. 1 SPL.**

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	2024-1029-RS	MCHENRY	27	20
BD600-10 (BD 34)		CONTRACT NO. 62X66		
ILLINOIS		FED. AID PROJECT		



SECTION A-A



* LATERAL DEVIATION SHALL NOT EXCEED ONE INCH IN 100 FEET.

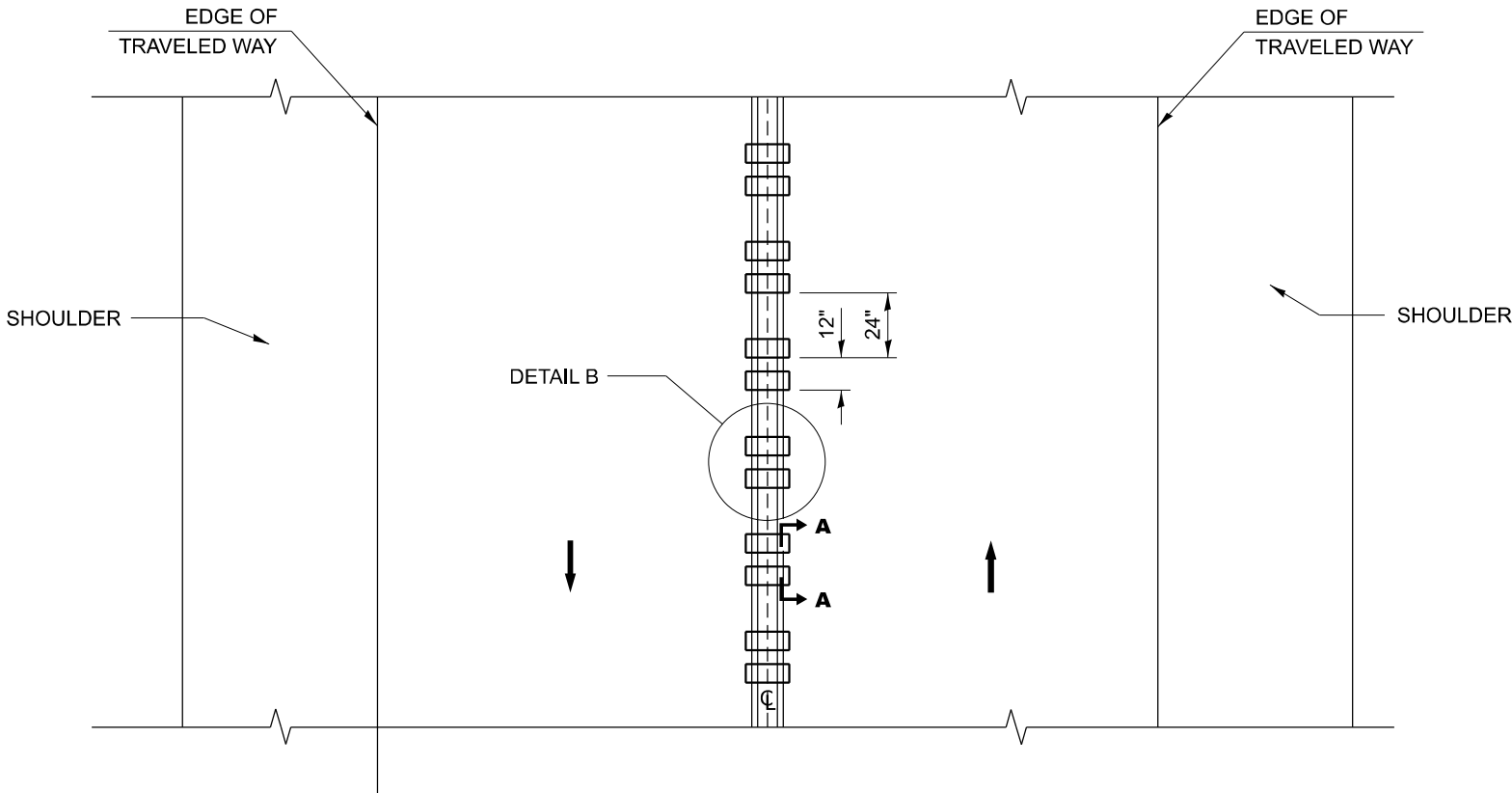
DETAIL B

GENERAL NOTES

- CENTERLINE RUMBLE STRIPS SHALL BE CONSTRUCTED ACCORDING TO SECTION 642 ALONG THE CENTERLINE OF PAVEMENT.
- SEE STANDARD 780001 FOR OTHER STRIPING LAYOUTS.
- RUMBLE STRIPS SHALL NOT BE PLACED ON BRIDGES.
- ALL RUMBLE STRIPS SHALL BE MILLED.
- CENTERLINE RUMBLE STRIPS SHALL BE CONTINUOUS THROUGH CONNECTIONS OF SIDEROADS WITH NO LEFT TURN LANES.
- DISCONTINUE CENTERLINE RUMBLE STRIPS THROUGH THE LIMITS OF ALL LEFT TURN LANES, INCLUDING ANY LANE TAPER SECTIONS.
- AFTER RUMBLE STRIPS ARE INSTALLED, THE PAVEMENT SURFACE SHALL BE SWEEPED CLEAN PRIOR TO THE PLACEMENT OF THE NEW PAVEMENT MARKINGS.
- WHERE USED, ADJUST SPACING OF RAISED REFLECTIVE PAVEMENT MARKERS TO FALL IN WIDER GAP BETWEEN RUMBLE STRIPS.

BASIS OF PAYMENT

- THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR CENTERLINE-RUMBLE STRIP OF THE WIDTH SPECIFIED.
- HOT-SPRAY THERMOPLASTIC PAVEMENT MARKING WILL BE USED OVER THE RUMBLE STRIPS, AND WILL BE PAID FOR SEPARATELY.

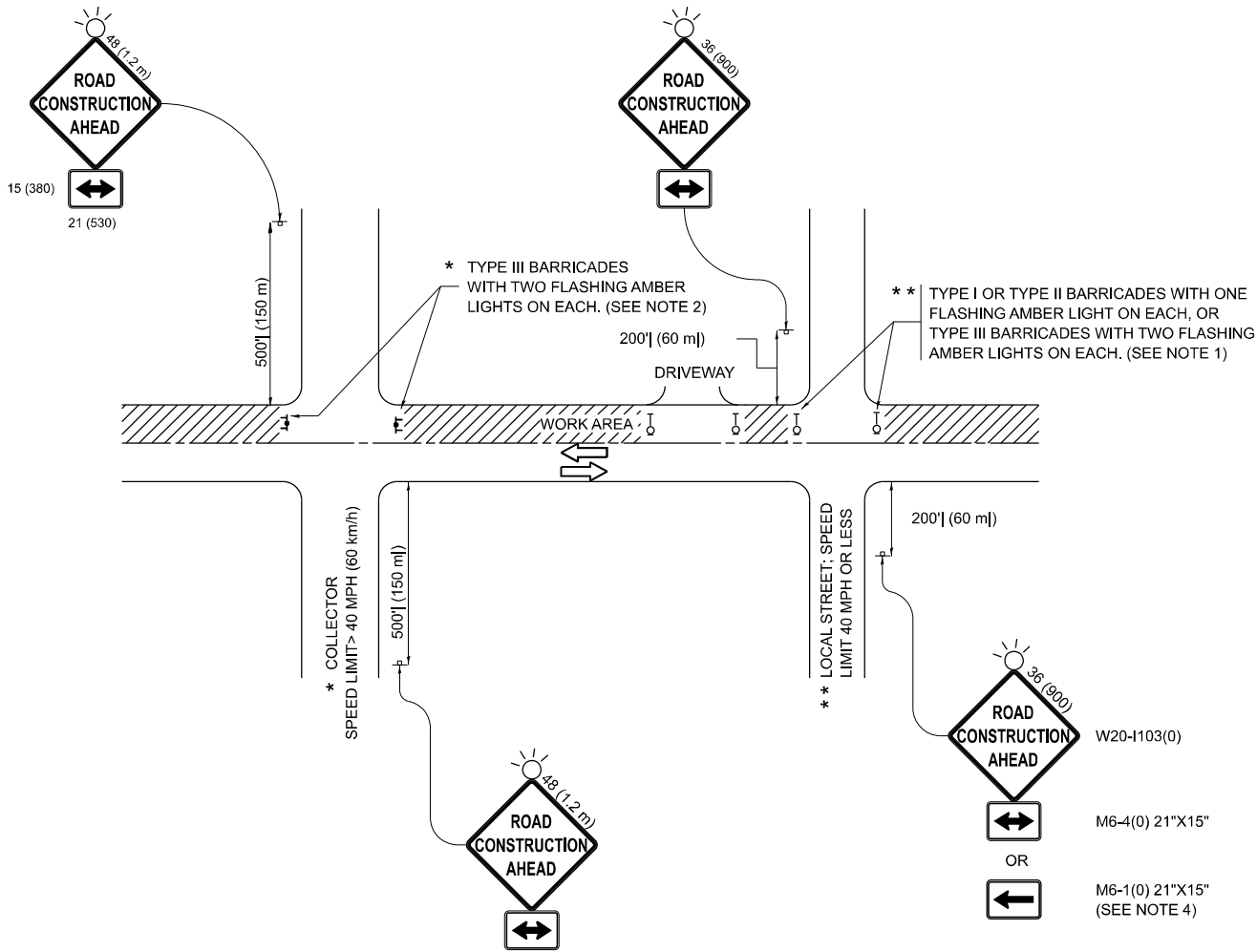


TWO-WAY ROAD

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	USER NAME = Rana.Kalo	DESIGNED - R. BORO	REVISED - K. SMITH 11-18-22	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RUMBLE STRIPS FOR CENTERLINE, NON-FREEWAY				F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -						525	2024-1029-RS	MCHENRY	27	21
		CHECKED -	REVISED -						BD 55		CONTRACT NO. 62X66		
	PLOT DATE = 3/18/2025	DATE - 08-06-2012	REVISED -						ILLINOIS FED. AID PROJECT				
	SCALE: NONE		SHEET 1 OF 1 SHEETS						STA.		TO STA.		

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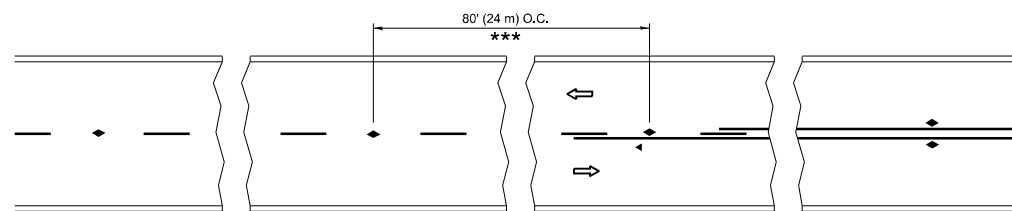


NOTES:

- 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.
- WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- 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.
- 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.

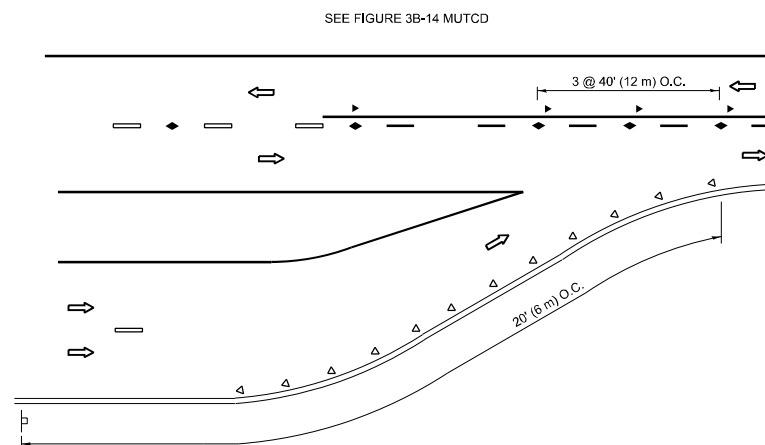
All dimensions are in inches (millimeters)
unless otherwise shown.

	USER NAME	= Rana.Kalo	DESIGNED	-	L.H.A.	REVISED	-	T. RAMMACHER 01-06-00	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS					F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN	-	CHECKED	-		REVISED	-	A. SCHUETZE 07-01-13							525	2024-1029-RS	MCHENRY	27	22
	DATE	-	06-89	REVISED	-	D. SENDERAK 05-03-24	TC-10								CONTRACT NO. 62X66				
	PLOT DATE	=	3/18/2025	DATE	-	06-89	REVISED	-							SCALE:		SHEET	OF	SHEETS

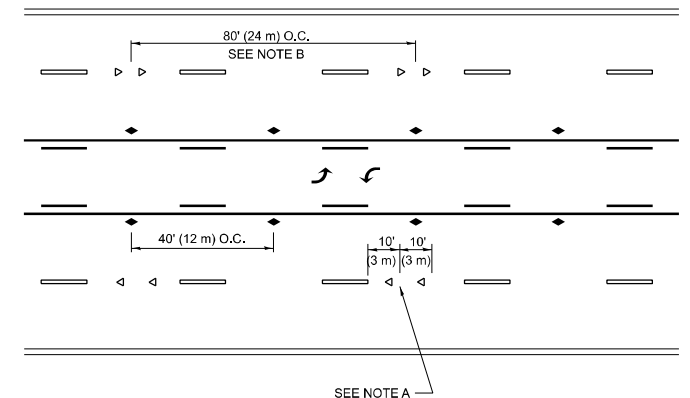


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS

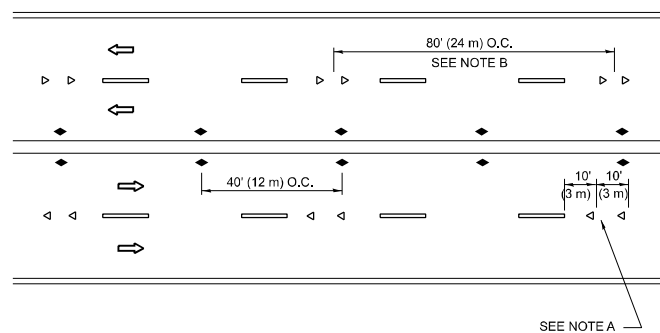
TWO-LANE/TWO-WAY



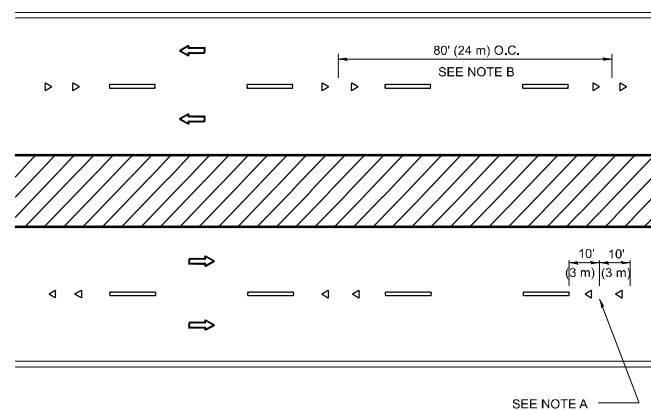
LANE REDUCTION TRANSITION



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

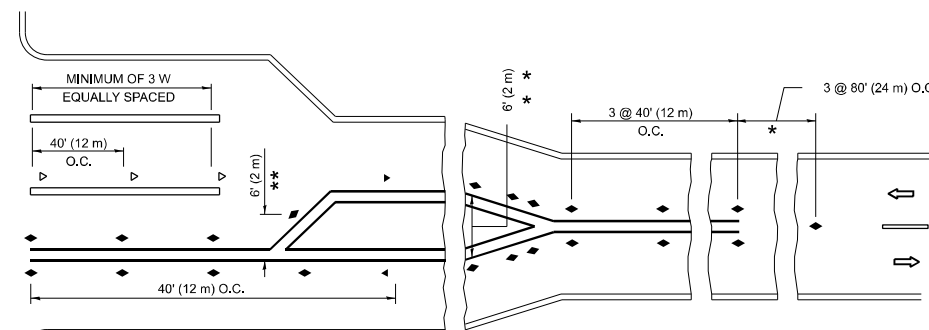
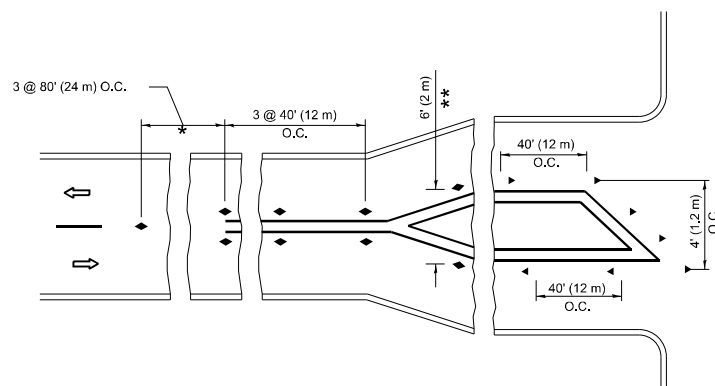
- YELLOW STRIPE
- ▬ WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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.

USER NAME = Rana,Kalo	DESIGNED -	REVISED - T. RAMMACHER 03-12-99
	DRAWN -	REVISED - T. RAMMACHER 01-06-00
	CHECKED -	REVISED - C. JUCIUS 09-09-09
PLOT DATE = 3/18/2025	DATE -	REVISED - C. JUCIUS 07-01-13

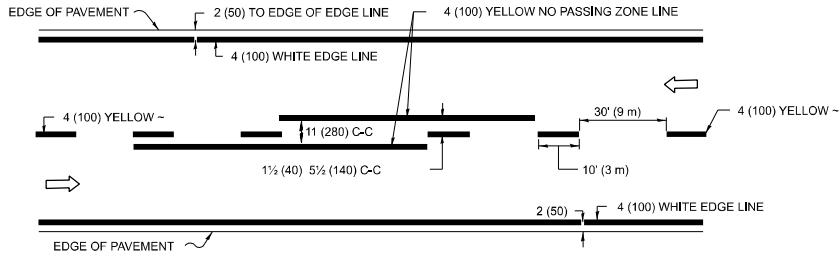
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)

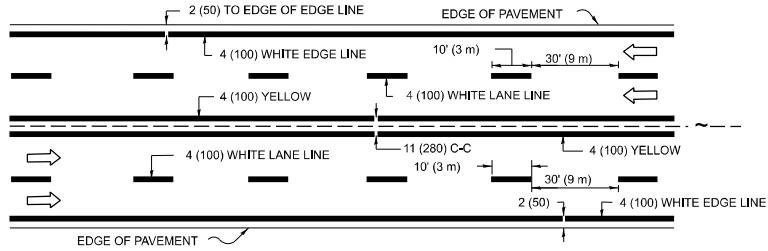
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F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	2024-1029-RS	MCHENRY	27	23
TC-11		CONTRACT NO. 62X66		
ILLINOIS FED. AID PROJECT				

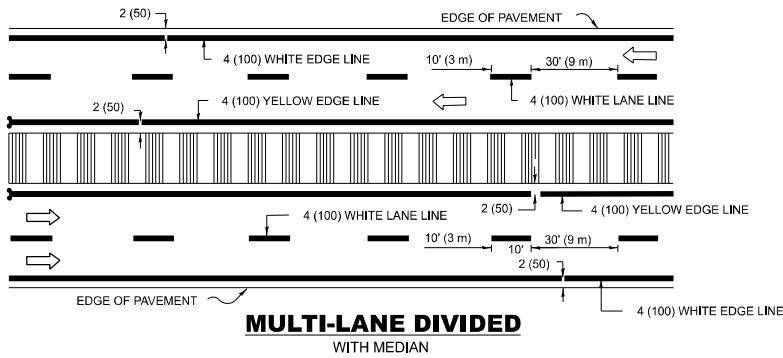
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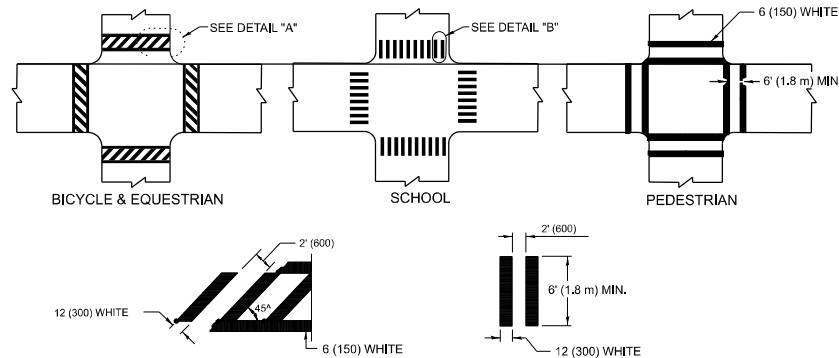
2-LANE ROADWAY



MULTI-LANE UNDIVIDED



TYPICAL LANE AND EDGE LINE MARKING

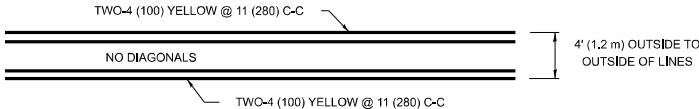


DETAIL "A"

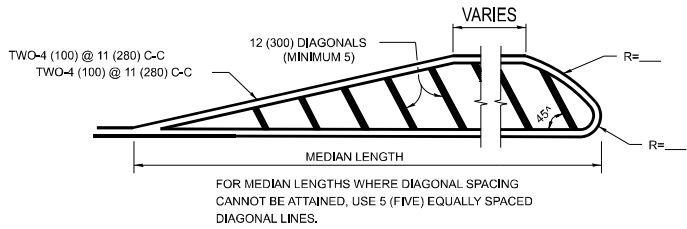
DETAIL "B"

TYPICAL CROSSWALK MARKING

* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES

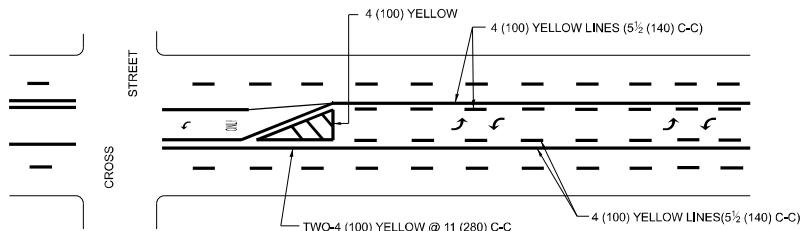


4' (1.2 m) WIDE MEDIANS ONLY



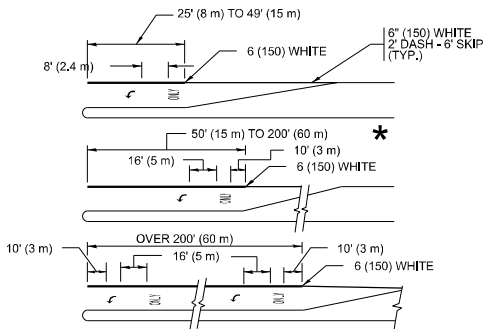
DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE



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

MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING

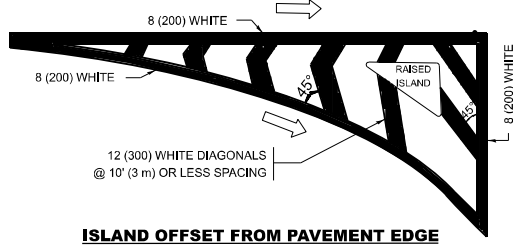


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

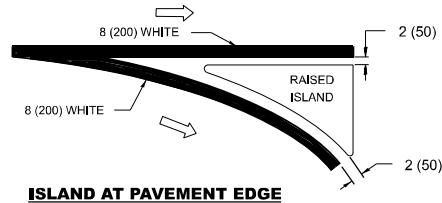
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

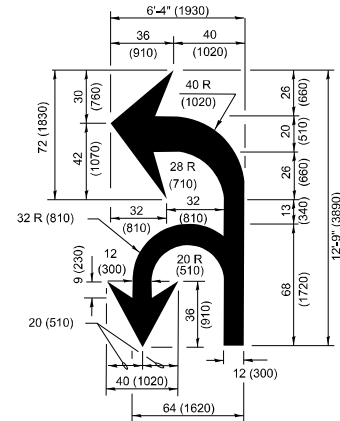


ISLAND OFFSET FROM PAVEMENT EDGE

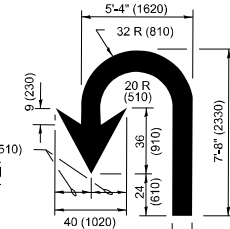


ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION

* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE: FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH: 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES: "RR" IS 8' (1.8 m) LETTERS: 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: *R*=3.6 SQ. FT. (0.33 m ²) EACH *X*=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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

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

USER NAME = Rana.Kalo	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
	DRAWN -	REVISED - C. JUCIUS 07-01-13
	CHECKED -	REVISED - C. JUCIUS 12-21-15
PLOT DATE = 3/18/2025	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE TYPICAL PAVEMENT MARKINGS

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	2024-1029-RS	MCHENRY	27	24
TC-13		CONTRACT NO. 62X66		
ILLINOIS		FED. AID PROJECT		

TURN BAY ENTRANCE AT START
OF LANE CLOSURE TAPER

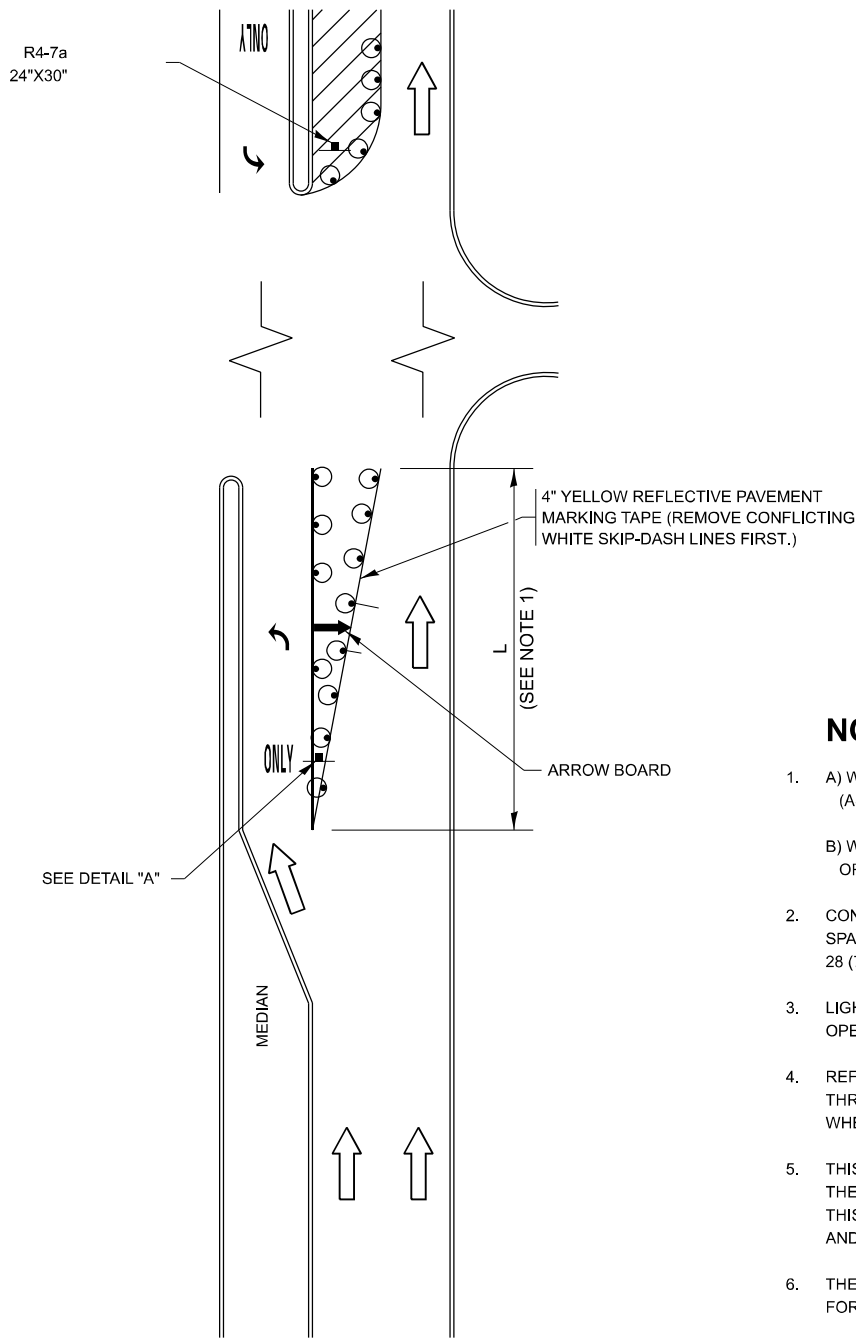
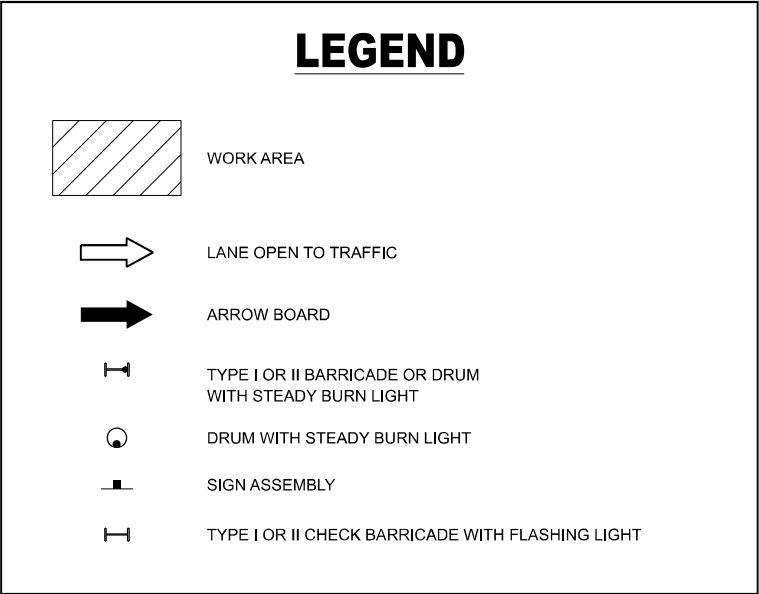


FIGURE 1

LEGEND



NOTES:

- 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.
- 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.
- LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
- 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.
- 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.
- THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
- THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH REQUIREMENTS.
- 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.

TURN BAY ENTRANCE
WITHIN A LANE CLOSURE

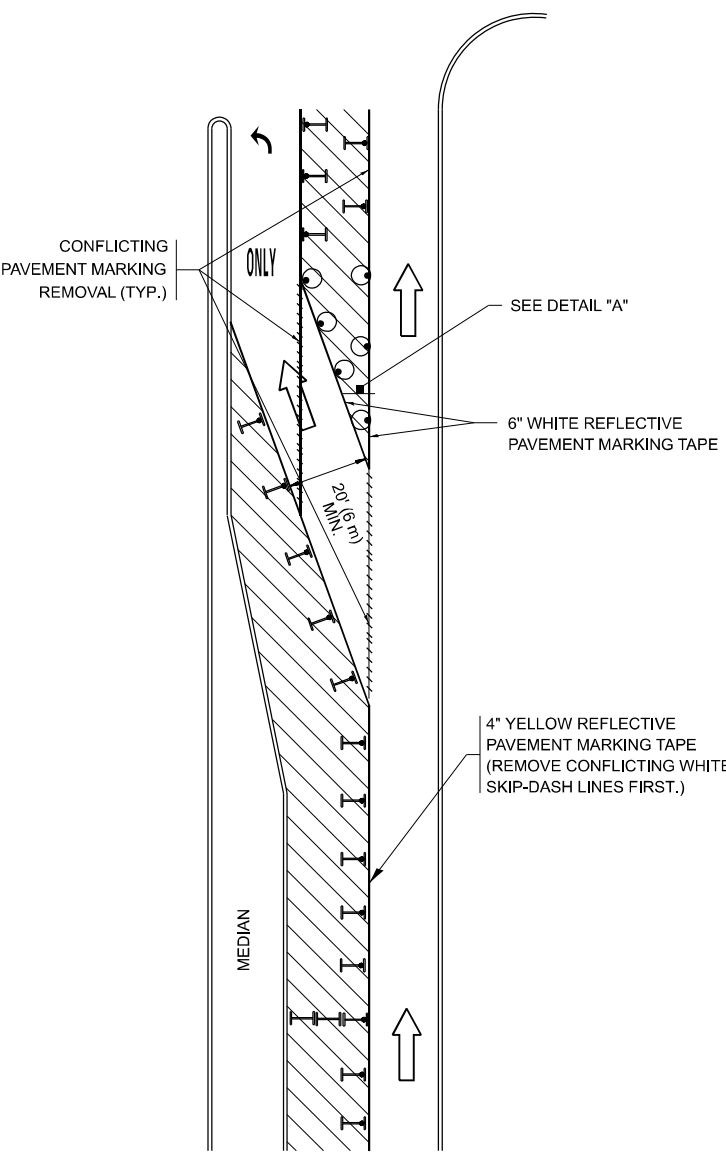
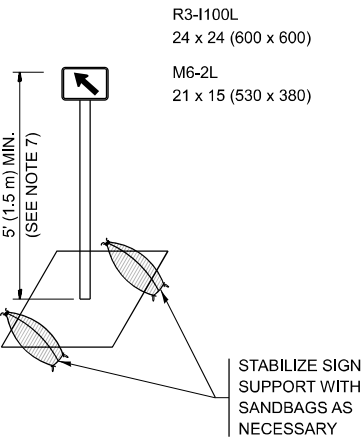


FIGURE 2



DETAIL A

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

MODEL: TC-14 [Sheet]
FILE NAME: c:\p\work\pwork\kalo\m\1039380\105725-sh1-dist\stds.dgn

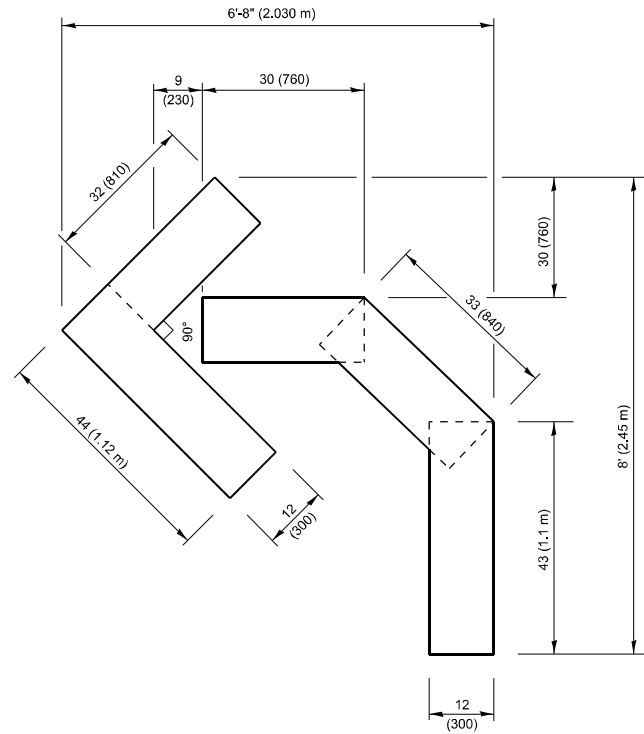
USER NAME	= Rana.Kalo	DESIGNED	- T. RAMMACHER 09-08-94	REVISED	- R. BORO 09-14-09
		DRAWN	- A. HOUSEH 11-07-95	REVISED	- A. SCHUETZE 07-01-13
		CHECKED	- A. HOUSEH 10-12-96	REVISED	- A. SCHUETZE 09-15-16
PLOT DATE	= 3/18/2025	DATE	- T. RAMMACHER 01-06-00	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)

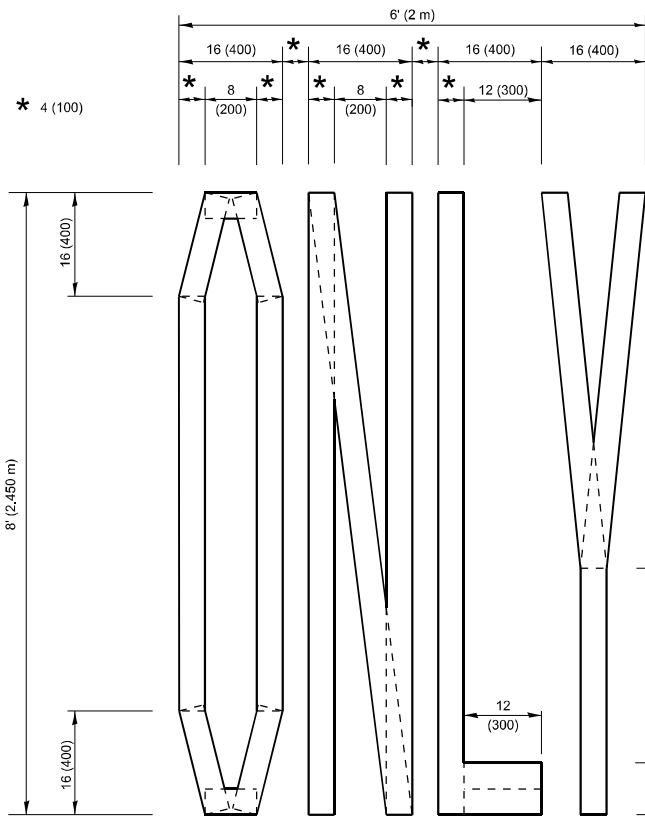
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	2024-1029-RS	MCHENRY	27	25
TC-14		CONTRACT NO. 62X66		
ILLINOIS		FED. AID PROJECT		



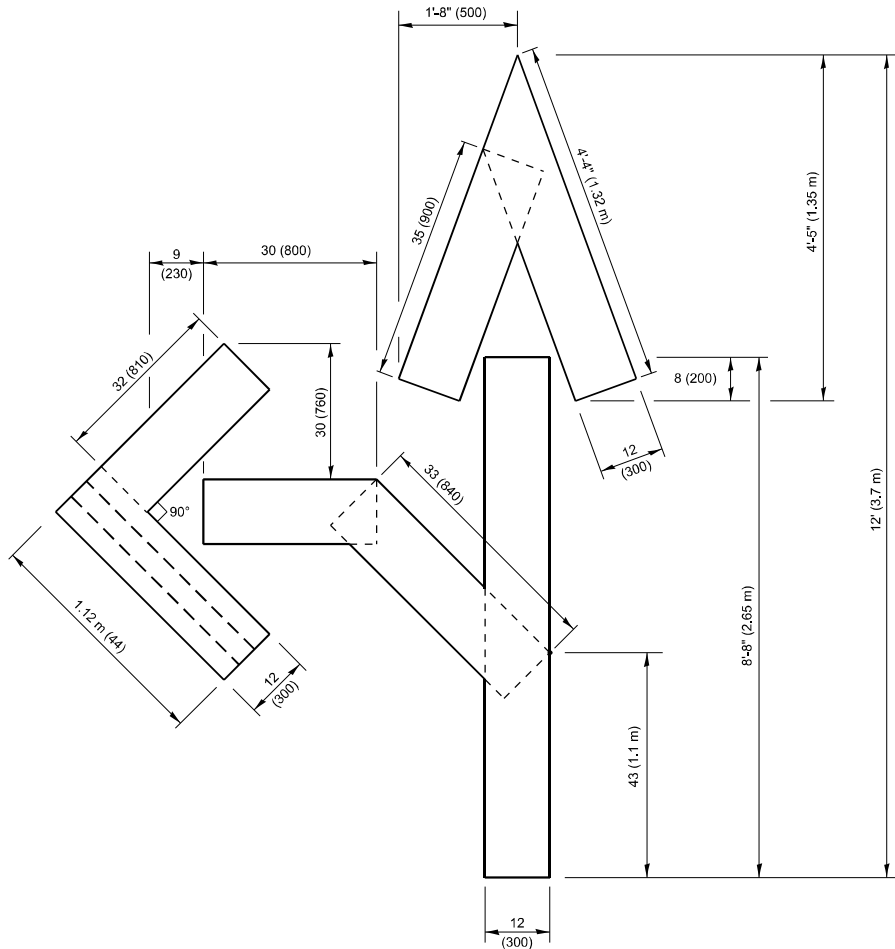
QUANTITY

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)

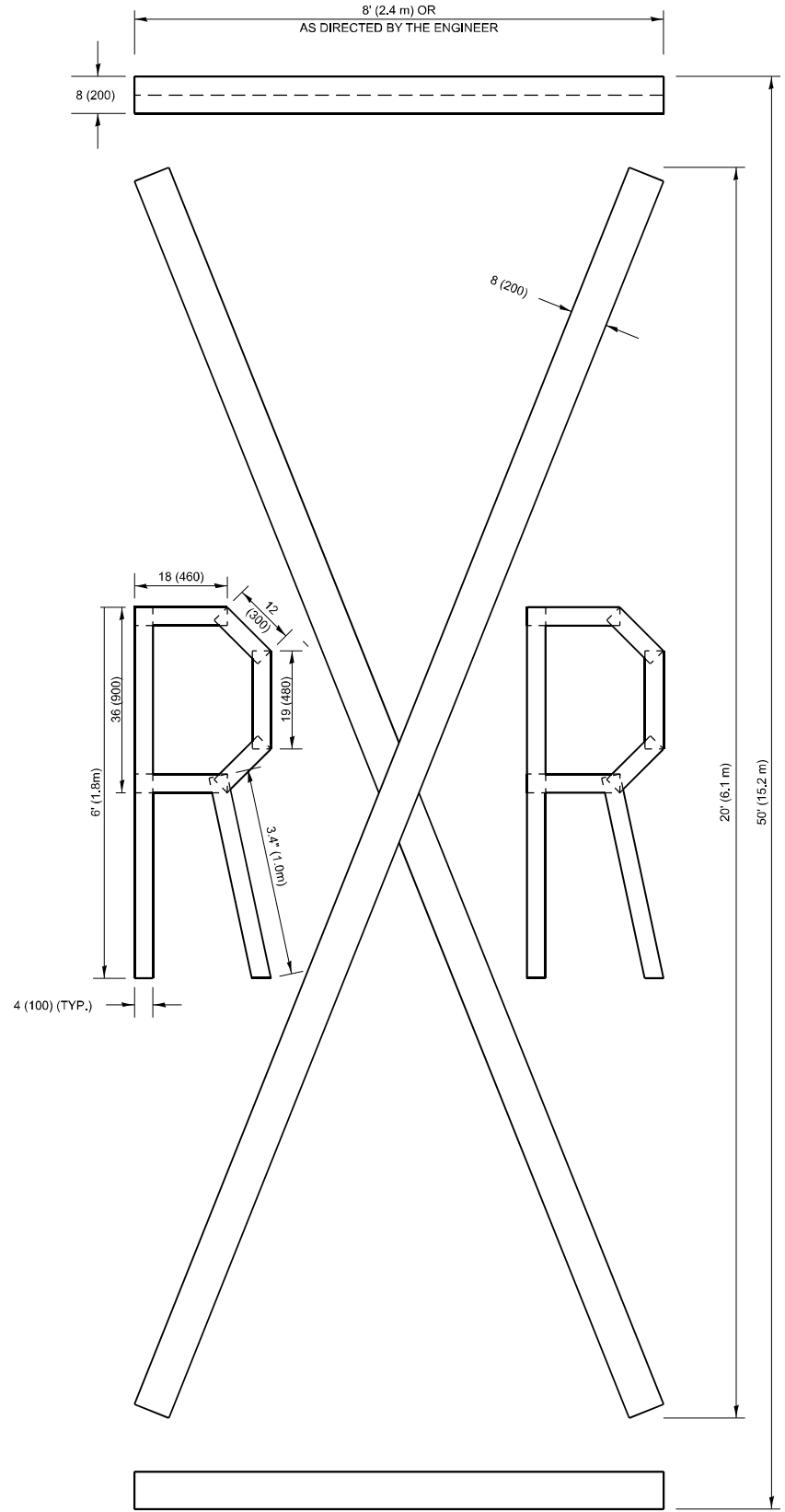


QUANTITY

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.

MODEL: TC-16 (Sheet)
FILE NAME: c:\p\work\kalkabom\1038380\105725-sh+DistStds.dgn

PLOT DATE	USER NAME = Rana.Kalo		DESIGNED -	REVISED - T. RAMMACHER 03-02-98
			DRAWN -	REVISED - E. GOMEZ 08-28-00
			CHECKED -	REVISED - E. GOMEZ 08-28-00
	DATE = 3/18/2025		DATE - 09-18-94	REVISED - A. SCHUETZE 09-15-16

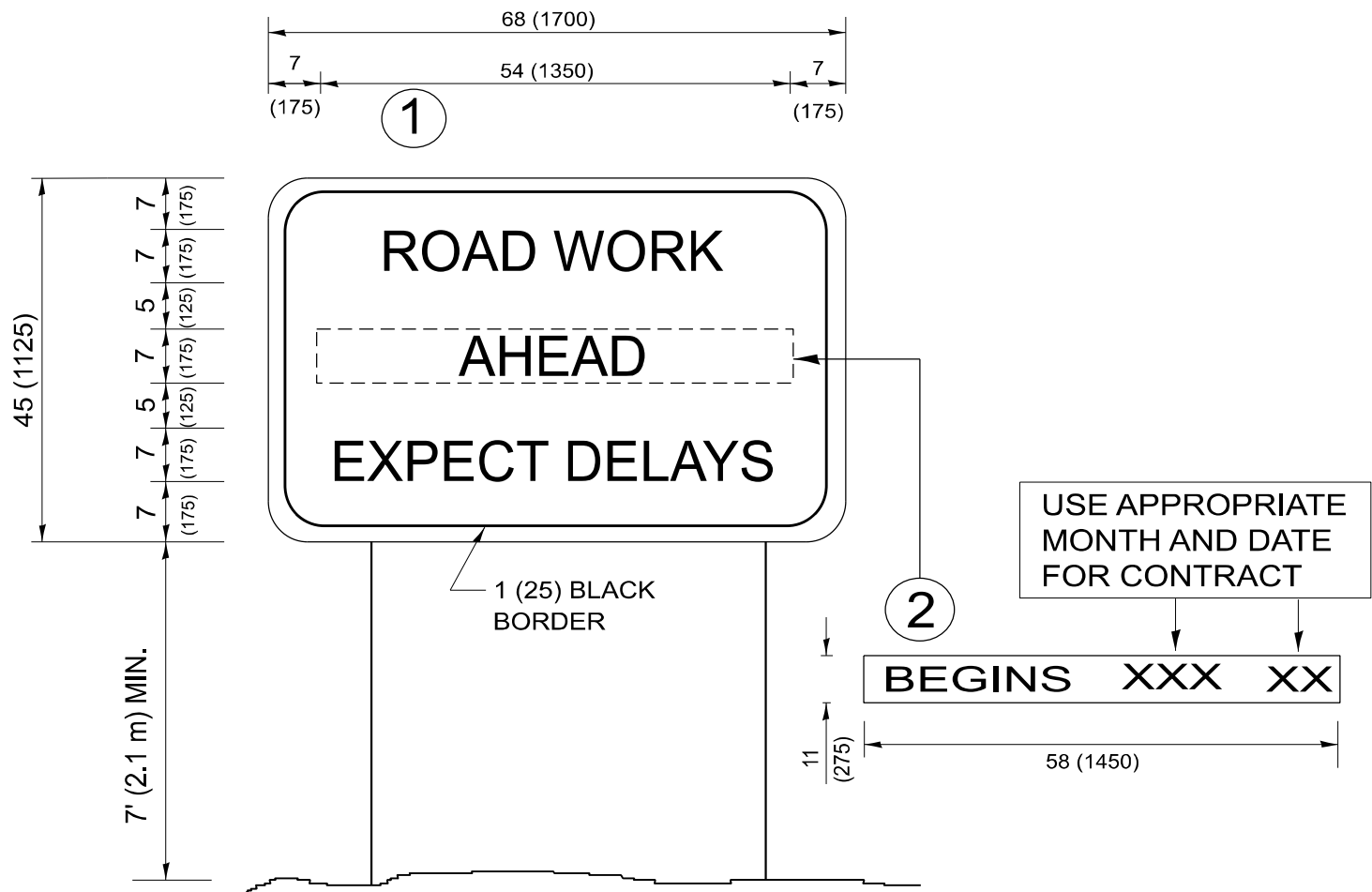
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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.
525	2024-1029-RS	MCHENRY	27	26
TC-16		CONTRACT NO. 62X66		
		ILLINOIS	FED. AID PROJECT	

MODEL: TC-22 [Sheet]
FILE NAME: c:\p\work\pwork\kalb\mtd1039380\106725-sh1-Dist5tds.dgn



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.

	USER NAME	= Rana.Kalo	DESIGNED	-		REVISED	-	R. MIRS 09-15-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN					F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			DRAWN	-		REVISED	-	R. MIRS 12-11-97		525	20240-1029-RS	MCHENRY	27	27					
			CHECKED	-		REVISED	-	T. RAMMACHER 02-02-99		TC-22		CONTRACT NO. 62X66							
	PLOT DATE	= 3/18/2025	DATE	-		REVISED	-	C. JUCIUS 01-31-07		ILLINOIS FED. AID PROJECT									
	SCALE: NONE			SHEET 1			OF 1 SHEETS								STA.			TO STA.	