

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3592	2021-011-RS-SR&SW	COOK	57	1
			* 57 + 2 = 59 TOTAL SHEETS	
			CONTRACT NO. 62N72	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THIS IMPROVEMENT IS LOCATED IN THE CITY OF CHICAGO AND THE VILLAGE OF BURNHAM

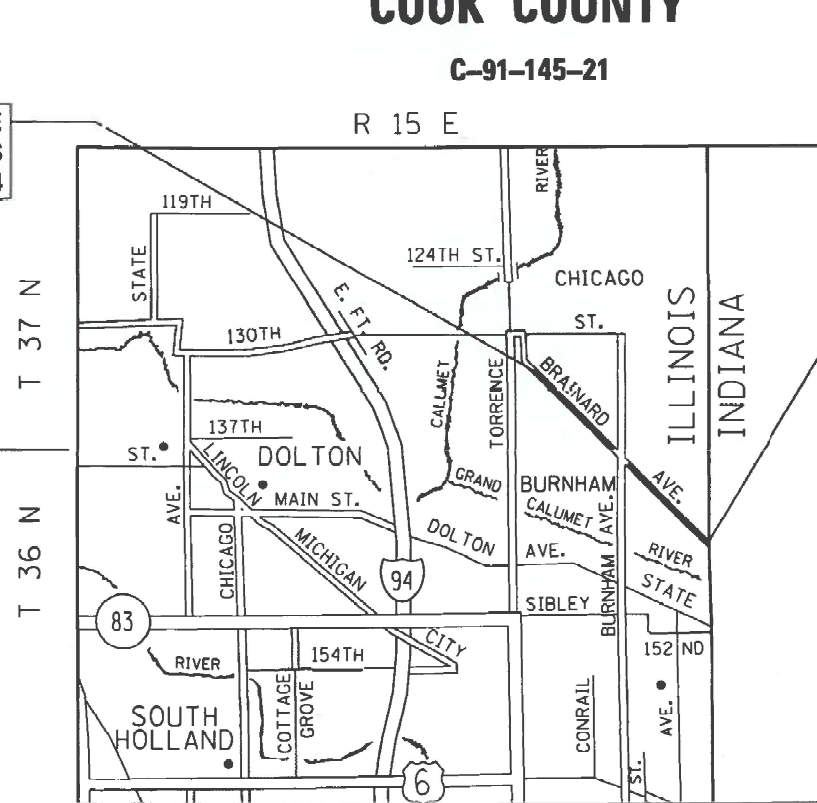
TRAFFIC DATA:  
BRAINARD AVENUE  
2018 ADT=13,800 VPD  
POSTED AND DESIGN SPEED LIMIT=30-50 MPH

PROPOSED  
HIGHWAY PLANS

F.A.U. ROUTE 3592 (BRAINARD AVENUE)  
MUSKEGON AVE TO STATE LINE RD  
SECTION 2021-011-RS-SR&SW  
PROJECT STP-NHPP-JNXE(000)  
DESIGNED OVERLAY, SHOULDERS, MILLED  
RUMBLE STRIPS AND ADA IMPROVEMENTS  
COOK COUNTY



BRAINARD AVENUE IMPROVEMENTS BEGIN STA 39+14

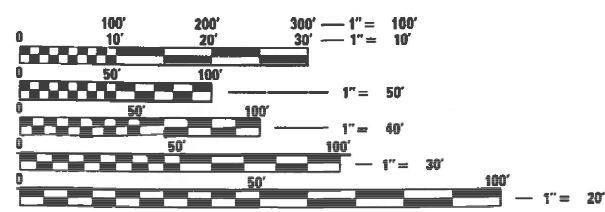


RESURFACING OMISSION STA 98+25.57 TO STA 101+91.27

BRAINARD AVENUE IMPROVEMENTS END STA 155+87



DATE 3/14/22  
LICENSE EXPIRES ON 11/30/2023



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 EXCAVATORS  
1-800-892-0123  
OR 811

PROJECT ENGINEER: LUKASZ POCIECHA (847) 705-4255  
PROJECT MANAGER: FAWAD AQUEEL

CONTRACT NO. 62N72

LOCATION MAP

NOT TO SCALE

GROSS LENGTH = 11,673.00 FT. = 2.211 MILE  
NET LENGTH = 11,307.30 FT. = 2.141 MILE



8745 W. HIGGINS ROAD  
SUITE 300  
CHICAGO, IL 60631  
773-693-6030

ILLINOIS PROFESSIONAL DESIGN FIRM  
LICENSE NO. 184-003962-0014

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 16, 2022  
Jose Rivero (AS)  
REGIONAL ENGINEER

May 13, 2022 [Signature]  
ENGINEER OF DESIGN AND ENVIRONMENT

May 13, 2022 [Signature]  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

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## HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424016-05	MID-BLOCK CURB RAMPS FOR SIDEWALKS
424021-06	DEPRESSED CORNER RAMPS FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
482011-03	HMA SHLD, STRIPS/SHLDS. WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
604001-05	FRAME AND LIDS, TYPE 1
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
630001-12	STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631011-10	TRAFFIC BARRIER TERMINAL, TYPE 2
642006-01	SHOULDER RUMBLE STRIPS, 8 IN.
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701101-05	OFF-RD OPERATIONS, MULTILANE, 15" TO 24" FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS-DAY ONLY
701426-09	LANE CLOSURE, MULTILANE INTERMITTENT OR MOVING OPER., FOR SPEED > 45 MPH
701427-05	LANE CLOSURE, MULTILANE INTERMITTENT OR MOVING OPER., FOR SPEED ≤ 40 MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701606-10	URBAN LANE CLOSURE, MULTILANE 2W WITH MOUNTABLE MEDIAN
701611-01	URBAN HALF ROAD CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
725001-01	OBJECT AND TERMINAL MARKERS
728001-01	TELESCOPING STEEL SIGN SUPPORT
780001-05	TYPICAL PAVEMENT MARKINGS
782006-01	GUARDRAIL AND BARRIER BARRIER WALL REFLECTOR MOUNTING DETAILS

## CHICAGO NOTES

- ALL CATCH BASINS IN THE CITY OF CHICAGO MUST MEET THE DEPARTMENT OF WATER MANAGEMENT SEWER SECTION STANDARD.
  - SEWER SIZES 525 MM (21") DIAMETER OR SMALLER MUST BE EXTRA STRENGTH VITRIFIED CLAY PIPE C-700 OR DUCTILE IRON PIPE WITH PUSHON OR MECHANICAL JOINTS. SEWER SIZES 600 MM (24") DIAMETER OR LARGER MUST BE REINFORCED CONCRETE PIPE TYPE C-76, CLASS III, WALL "B" WITH "0-RING" JOINTS.
  - PERMITS FROM THE DEPARTMENT OF WATER MANAGEMENT- SEWER SECTION ARE REQUIRED FOR ALL UNDERGROUND STORM, SANITARY OR COMBINED SEWER SYSTEM CONSTRUCTION, AND FOR ALL WORK INVOLVING ADJUSTMENT OF SEWER STRUCTURES. THE DEPARTMENT OF WATER MANAGEMENT- SEWER SECTION PERMIT MUST BE OBTAINED BY A LICENSED SEWER DRAIN LAYER PRIOR TO START OF CONSTRUCTION. THE LICENSED SEWER CONTRACTOR/SUBCONTRACTOR MUST SUBMIT TWO SETS OF PLANS APPROVED BY THE DEPARTMENT OF WATER MANAGEMENT SEWER SECTION FOR THE ISSUE OF THE SEWER PERMIT TO SUITE 400, 333 SOUTH ST ATE STREET. CHICAGO, IL 60604-3971. INSPECTION WILL BE PROVIDED BY THE DEPARTMENT OF SEWERS.
  - IF THE SEWER PIPE COVER IS REDUCED TO LESS THAN 1 METER (3 FT), CONCRETE ENCASEMENT OF THE SEWER OR REPLACEMENT OF THE SEWER WITH CLASS 52 DUCTILE IRON PIPE WILL BE REQUIRED.
  - IN CASE OF DAMAGE TO CITY OF CHICAGO SEWERS. PRIVATE AND PUBLIC DRAINS, SEWER STRUCTURES AND/OR BENCH MONUMENTS, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE DEPARTMENT OF WATER MANAGEMENT- SEWER SECTION AT (312)747-7892 OR (312)747-7893.
  - PREFORMED LIDS SHALL BE PLACED ON ALL MANHOLES AND CATCH BASINS.
  - BENCH MONUMENT LOCATIONS WITHIN THE LIMITS OF THE IMPROVEMENT CAN BE OBTAINED FROM THE DEPARTMENT OF WATER MANAGEMENT SEWER SECTION AT SUITE 400, 333 SOUTH STATE STREET, CHICAGO, IL 60604-3971. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF REPLACING ANY BENCH MONUMENT DAMAGE OR DESTROYED DURING CONSTRUCTION.
  - SIDEWALK ACCESSIBILITY RAMPS SHALL NOT BE CONSTRUCTED DIRECTLY OVER EXISTING OR PROPOSED DRAINAGE STRUCTURES.
  - ALL BROKEN, CRACKED, WORN OR OTHERWISE DAMAGED OR BICYCLE UNSAFE FRAMES AND GRATES OR LIDS ON THE SEWER STRUCTURES SHALL BE REPLACED WITH THE NEW DEPARTMENT OF SEWERS' STANDARD FRAMES AND GRATES OR LIDS. OLD FRAMES AND GRATES OR LIDS SHALL BE DELIVERED TO THE DEPARTMENT OF WATER MANAGEMENT- SEWER SECTION AT 39TH STREET AND ASHLAND AVENUE.
  - CITY OF CHICAGO WATER VALVE VAULTS AND SEWER STRUCTURES SHALL NOT BE CLOSED, COVERED OR OTHERWISE OBSTRUCTED DURING CONSTRUCTION WITHOUT WRITTEN PERMISSION FROM THE CITY OF CHICAGO DEPARTMENT OF WATER AND/OR DEPARTMENT OF WATER MANAGEMENT SEWER SECTION.
  - CURB AND GUTTER CONSTRUCTION SHALL PROVIDE A MAXIMUM CURB HEIGHT OF 9" (225 MM) AT DRAINAGE STRUCTURES AND A MINIMUM 3" (75 MM) AT HIGH POINTS.
  - THE CONTRACTOR MUST NOTIFY CHICAGO'S OFFICE OF EMERGENCY MANAGEMENT AND COMMUNICATION (OEMC) 48 HOURS BEFORE COMMENCING CONSTRUCTION OR CHANGING TRAFFIC FLOW.
- ## GENERAL NOTES
- THE CONTRACTOR SHALL CALL "J.U.L.I.E" AT (800) 892-0123 OR 811 AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH BURIED ELECTRIC, TELEPHONE, AND GAS UTILITIES ARE IN THE AREA.
  - THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH AFFECTED UTILITY COMPANIES THE CITY OF CHICAGO AND THE VILLAGE OF BURNHAM.
  - THE CONTRACTOR SHALL NOT SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
  - THE CONTRACTOR SHALL CONTRACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR KALPANA KANNAN-HOSADURGA, AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING ANY WORK.
  - THE ENGINEER SHALL CONTACT THE SOUTH COOK TRAFFIC FIELD AREA ENGINEER PATRICE HARRIS, AT PATRICE.HARRIS@ILLINOIS.GOV A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PAVEMENT MARKINGS
  - DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
  - WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1½ INCHES. A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED AT A MINIMUM OF 1:3 (V:H).
  - BUTT JOINTS SHALL 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.
  - UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURE AS DETERMINED AND APPROVED BY THE ENGINEER OR AS PROVIDED FOR IN THE CONTRACT SPECIFICATIONS, OVERNIGHT CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION PROJECTS INVOLVING DAYTIME MILLING, RESURFACING, AND CLASS D PATCHING OPERATIONS.
  - THE CONTRACTOR SHALL USE CARE NEAR ANY AND ALL EXISTING ITEMS THAT WILL NOT BE REMOVED. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S OWN EXPENSE.
  - THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTIES AT ALL TIMES DURING THE CONSTRUCTION OF THE PROJECT.
  - THE LOCATION OF THE EXISTING DRAINAGE STRUCTURES, STORM SEWERS, WATER MANS, SANITARY SEWERS, AND ANY OTHER PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLANS IS APPROXIMATE AND THEIR EXACT LOCATION IS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR.

## CONT. GENERAL NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND AND SURFACE UTILITIES EVEN THOUGH THEY MIGHT BE SHOWN IN THE PLANS. ANY UTILITY PROPERTY DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER.
- ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES WHICH OBSTRUCTS THE NATURAL FLOW OF WATER SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.
- THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS AT ALL TIMES DURING CONSTRUCTION.
- IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.
- EXACT LOCATIONS OF PAVEMENT PATCHING AND CURB & GUTTER REMOVAL & REPLACEMENT WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- ALL PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE IMPROVEMENT ACCORDING TO THE DISTRICT 1 AND CITY OF CHICAGO TYPICAL PAVEMENT MARKINGS STANDARD DETAILS.
- 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.
- RELOCATION OF EXISTING PLANTER BOXES IS INCLUDED IN THE COST OF SIDEWALK REMOVAL.
- 2-FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER ITEMS OR WORK TO EXISTING CURBS AND GUTTERS UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK.
- SAW CUTTING OF PAVEMENT, SIDEWALK, AND CURB & GUTTER, ETC. SHALL BE TO FULL DEPTH AND SHALL RESULT IN A CLEAN STRAIGHT EDGE ON THE PORTION REMAINING. ALL SAW CUTTING SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEM REMOVED.
- LANDSCAPING AREAS AFFECTED BY SIDEWALK CONSTRUCTION AND EXISTING SIDEWALK TO BE REMOVED WITHOUT PROPOSED REPLACEMENT SHALL BE RESTORED WITH "SODDING, SALT TOLERANT" AND "TOPSOIL FURNISH AND PLACE, 4" AS DIRECTED BY THE ENGINEER
- THE SIDEWALK ON ONLY ONE SIDE OF THE ROAD MAY BE CLOSED AT ANY TIME, WHILE THE SIDEWALK ON THE OPPOSITE SIDE OF THE ROAD SHALL REMAIN OPEN AND FULL ACCESSIBLE. THE CONTRACTOR SHALL PLAN AND SCHEDULE ALL WORK ACCORDINGLY.
- PROPOSED SIDEWALK RAMPS SHALL CONFORM TO CURRENT ADA REQUIREMENTS AND APPLICABLE STATE HIGHWAY STANDARDS TO THE EXTENT POSSIBLE, TO BE DETERMINED BY THE ENGINEER.
- FRAMES AND GRATES ADJUSTMENT OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS SHALL BE PERFORMED BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.
- DRAINAGE ADJUSTMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUB NUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.
- THE STRIPPED TOPSOIL SHALL BE STOCKPILED, SORTED, AND REUSED FOR THE PROPOSED LANDSCAPING IMPROVEMENTS. THE ACTUAL REMOVAL DEPTH AND QUANTITY OF TOPSOIL REMOVAL SHALL BE VERIFIED IN THE FIELD.
- THE SUBGRADE STABILITY SHALL BE VERIFIED BY PROOF ROLLING WITH A FULL LOADED TANDEM AXLE TRUCK.
- ANY AGGREGATE SUBGRADE IMPROVEMENT CONTAMINATED AND/OR DAMAGED BY THE CONTRACTORS VEHICLES AND/OR EQUIPMENT IS TO BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR MUST VERIFY THE EXISTING SUBBASE AND PAVEMENT DEPTH IF APPLICABLE.
- THE THICKNESS OF HMA SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA IS PLACED.
- BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES AND RAISED REFLECTIVE PAVEMENT MARKERS THAT CONFLICT WITH TEMPORARY MARKINGS. IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR PROPOSED STRIPING AT THE COMPLETION OF THIS CONTRACT. EXACT LOCATIONS OF ALL PROPOSED PAVEMENT MARKINGS SHALL BE DIRECTED BY THE RESIDENT ENGINEER.
- EROSION CONTROL/NO INTRUSION FENCING SHALL BE PLACED AT THE EXISTING ROW LINE FROM BURNHAM AVENUE TO THE STATE LINE TO PROTECT THE POWDERHORN PRAIRIE AND MARSH NATURE PRESERVE.
- THE AGGREGATE GRADATION FOR THE AGGREGATE SUBGRADE IMPROVEMENT 12" LOWER LIFT SHALL BE CS 1 OR RR 1.
- GEOTECHNICAL FABRIC FOR GROUND STABILIZATION AND/OR AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAVE BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ABOVE ITEM WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE SSRBC AND IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.

FILE NAME = R102621-sh1t-index.dgn

**wood.**

USER NAME = kendy.estimable	DESIGNED - KE	REVISED -
	DRAWN - KE	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - CMP	REVISED -
PLOT DATE = 4/25/2022	DATE - 4/22/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BRAINARD AVE FROM MUSKEGON AVE TO STATE LINE RD  
INDEX, HIGHWAY STANDARDS, & GENERAL NOTES**

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3592	2021-011-R5-SR&SW	COOK	57	2
CONTRACT NO. 62N72				
ILLINOIS		FED. AID PROJECT		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				STP	NHPP		NHPP
				80% FED	80% FED	100% STATE	80% FED
				20% STATE	20% STATE	20% STATE	20% STATE
				ROADWAY	ROADWAY	ROADWAY	SIGNALS
				0005	0005	0005	0021
				URBAN	URBAN	URBAN	URBAN
20200100	EARTH EXCAVATION	CU YD	4,537	4,537			
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	10,272	10,272			
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	4,838	4,838			
25200110	SODDING, SALT TOLERANT	SQ YD	4,838	4,838			
25200200	SUPPLEMENTAL WATERING	UNIT	217	217			
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	3	3			
28000400	PERIMETER EROSION BARRIER	FOOT	4,905	4,905			
28000510	INLET FILTERS	EACH	16	16			
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	471	471			
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	10,272	10,272			
35650510	BASE COURSE WIDENING 11"	SQ YD	1,745	1,745			
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	40,909	36,907	4,002		
40600370	LONGITUDINAL JOINT SEALANT	FOOT	22,211	18,698	3,513		
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	86	77	9		

\*SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				STP	NHPP		NHPP
				80% FED	80% FED	100% STATE	80% FED
				20% STATE	20% STATE	20% STATE	20% STATE
				ROADWAY	ROADWAY	ROADWAY	SIGNALS
				0005	0005	0005	0021
				URBAN	URBAN	URBAN	URBAN
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	418	327	91		
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	16	14	2		
40602985	HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N70	TON	6,597	5,933	664		
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	5,833	5,284	549		
42001300	PROTECTIVE COAT	SQ YD	514	371	143		
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	2,979	1,796	1,183		
42400410	PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH	SQ FT	675	675			
44000164	HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4"	SQ YD	57,161	51,232	5,929		
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	37	37			
44000600	SIDEWALK REMOVAL	SQ FT	3,636	2,453	1,183		
44002220	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 5"	SQ YD	519	454	65		
44201753	CLASS D PATCHES, TYPE II, 9 INCH	SQ YD	232	203	29		
44201757	CLASS D PATCHES, TYPE III, 9 INCH	SQ YD	60	52	8		
44201759	CLASS D PATCHES, TYPE IV, 9 INCH	SQ YD	180	157	23		

\*SPECIALTY ITEM

FILE NAME = P102621-sh11-500.dwg



USER NAME = kandy.estimote  
 PLOT SCALE = 2.0000' / in.  
 PLOT DATE = 4/22/2022

DESIGNED - KE  
 DRAWN - KE  
 CHECKED - CMP  
 DATE - 4/22/2022

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BRAINARD AVE FROM MUSKEGON AVE TO STATE LINE RD  
 SUMMARY OF QUANTITIES

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3592	2021-011-R5-SR&SW	COOK	57	3
CONTRACT NO. 62N72				
ILLINOIS		FED. AID PROJECT		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				STP	NHPP		NHPP
				80% FED	80% FED		80% FED
				20% STATE	20% STATE	100% STATE	20% STATE
				ROADWAY	ROADWAY	ROADWAY	SIGNALS
				0005	0005	0005	0021
				URBAN	URBAN	URBAN	URBAN
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	216	204	12		
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	8,360	8,052	308		
60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	2	2			
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	26	26			
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	9	8	1		
60400105	FRAMES, TYPE 1	EACH	19	19			
60920012	PIPE CULVERTS TO BE CLEANED 12"	FOOT	100			100	
60920015	PIPE CULVERTS TO BE CLEANED 15"	FOOT	100			100	
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	2,862.5	2,862.5			
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1	1			
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	1	1			
63200310	GUARDRAIL REMOVAL	FOOT	2,923	2,923			
64200108	SHOULDER RUMBLE STRIPS, 8 INCH	FOOT	10,179	10,179			
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	4,537	4,537			

\*SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				STP	NHPP		NHPP
				80% FED	80% FED		80% FED
				20% STATE	20% STATE	100% STATE	20% STATE
				ROADWAY	ROADWAY	ROADWAY	SIGNALS
				0005	0005	0005	0021
				URBAN	URBAN	URBAN	URBAN
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	4	4			
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1	1			
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	LSUM	1	1			
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	10	10			
67100100	MOBILIZATION	L SUM	1	1			
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1			
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1			
70102634	TRAFFIC CONTROL AND PROTECTION, STANDARD 701611	L SUM	1	1			
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1			
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1			
70300100	SHORT TERM PAVEMENT MARKING	FOOT	14,400	13,392	1,008		
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	6,000	5,580	420		
70300211	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - PAINT	SQ FT	1,045	586	459		
70300221	TEMPORARY PAVEMENT MARKING - LINE 4"- PAINT	FOOT	52,902	49,248	3,654		

\*SPECIALTY ITEM

FILE NAME = P102621-sh1-500-01.dgn



USER NAME = kandy.estimote  
 PLOT SCALE = 2.0000' / in.  
 PLOT DATE = 4/22/2022

DESIGNED - KE  
 DRAWN - KE  
 CHECKED - CMP  
 DATE - 4/22/2022

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BRAINARD AVE FROM MUSKEGON AVE TO STATE LINE RD  
 SUMMARY OF QUANTITIES

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3592	2021-011-R5-SR&SW	COOK	57	4
				CONTRACT NO. 62N72
		ILLINOIS	FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				STP	NHPP		NHPP
				80% FED	80% FED	100% STATE	80% FED
				20% STATE	20% STATE	20% STATE	20% STATE
				ROADWAY	ROADWAY	ROADWAY	SIGNALS
				0005	0005	0005	0021
				URBAN	URBAN	URBAN	URBAN
70300241	TEMPORARY PAVEMENT MARKING - LINE 6"- PAINT	FOOT	744	680	64		
70300251	TEMPORARY PAVEMENT MARKING - LINE 8"- PAINT	FOOT	100	100			
70300261	TEMPORARY PAVEMENT MARKING - LINE 12"- PAINT	FOOT	7,818	7,528	290		
70300281	TEMPORARY PAVEMENT MARKING - LINE 24"- PAINT	FOOT	1,101	759	342		
70306120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE III TAPE	FOOT	3,600	3,348	252		
* 72000100	SIGN PANEL - TYPE 1	SQ FT	18	9	9		
* 72400710	RELOCATE SIGN PANEL - TYPE 1	SQ FT	7	7			
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	1	1			
* 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	39	19.5	19.5		
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	882	423	459		
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE4"	FOOT	52,902	49,248	3,654		
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE6"	FOOT	744	680	64		
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE8"	FOOT	100	100			
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	3,394	3,104	290		

\*SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				STP	NHPP		NHPP
				80% FED	80% FED	100% STATE	80% FED
				20% STATE	20% STATE	20% STATE	20% STATE
				ROADWAY	ROADWAY	ROADWAY	SIGNALS
				0005	0005	0005	0021
				URBAN	URBAN	URBAN	URBAN
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	1,101	759	342		
* 78006100	PREFORMED THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	163	163			
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	848	788	60		
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	37	37			
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	848	788	60		
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	28,961	26,290	2,671		
* 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1				1
* 88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2				2
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	128		128		
* 89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1				1
X0320050	CONSTRUCTION LAYOUT (SPECIAL)	L SUM	1	1			
X0326898	CENTER LINE - RUMBLE STRIP - 16"	FOOT	4,436	4,436			
X2020110	GRADING AND SHAPING SHOULDERS	UNIT	108	102	6		
X3510416	AGGREGATE BASE COURSE, TYPE CA-16	TON	0.1	0.1			

\*SPECIALTY ITEM

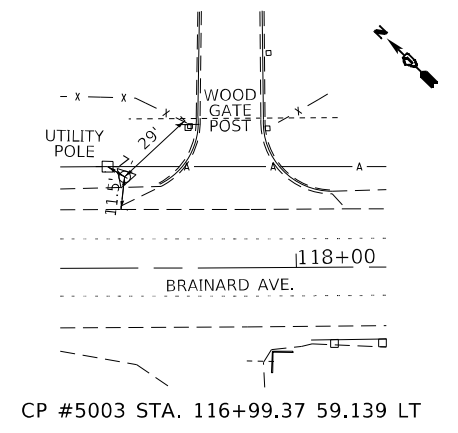
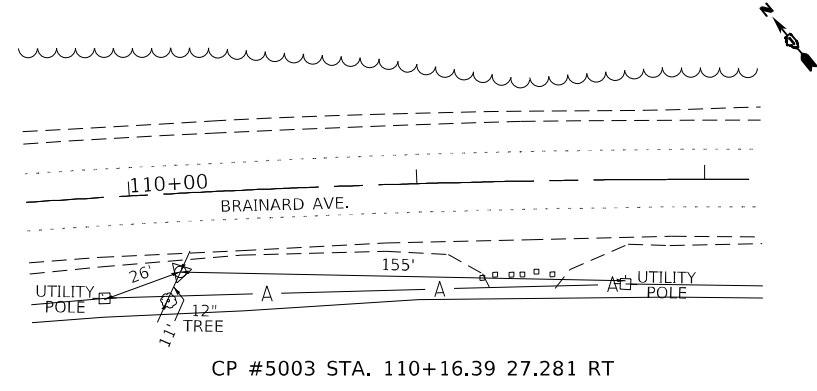
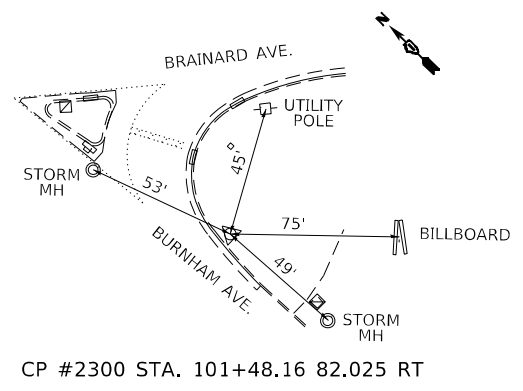
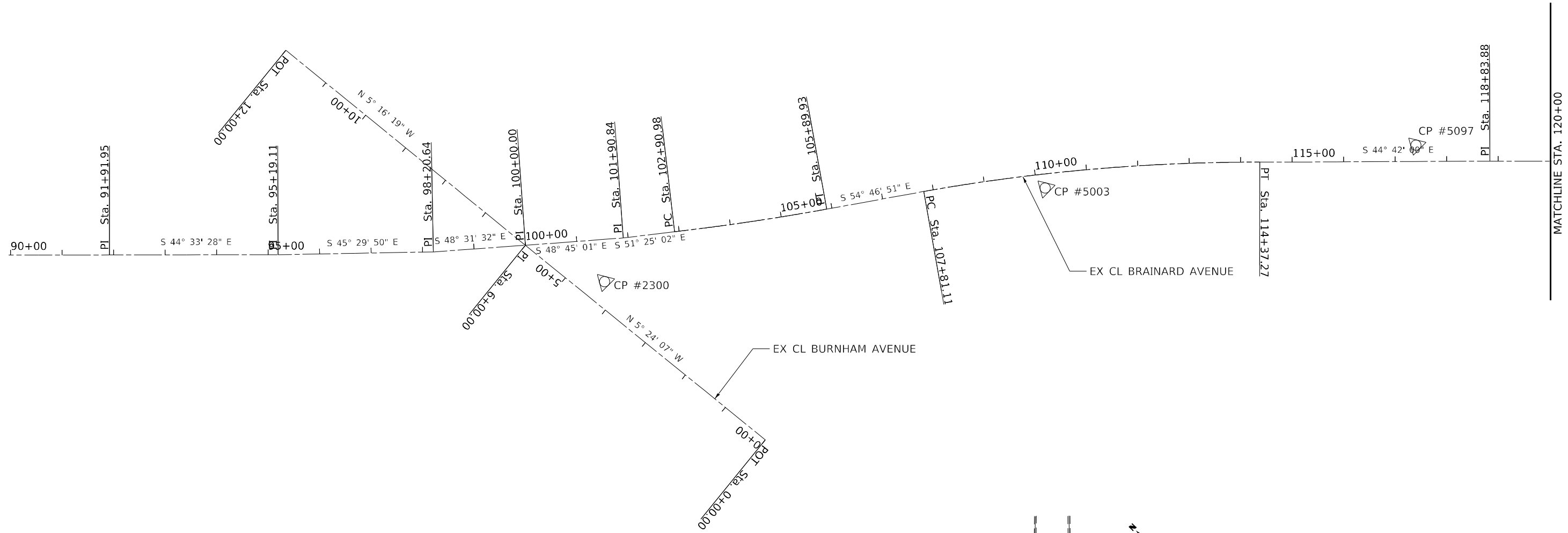
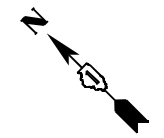
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	USER NAME = kandy.estimote	DESIGNED - KE	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>BRAINARD AVE FROM MUSKEGON AVE TO STATE LINE RD</b> <b>SUMMARY OF QUANTITIES</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 2.0000' / in.	CHECKED - CMP	REVISED -			3592	2021-011-R5-SR&SW	COOK	57	5
	PLOT DATE = 4/22/2022	DATE - 4/22/2022	REVISED -			CONTRACT NO. 62N72			ILLINOIS FED. AID PROJECT	
SCALE: NONE		SHEET OF SHEETS		STA. TO STA.						



EXIST. CURVE BRAIN\_E\_42  
 PI STA. = 111+10.06  
 $\Delta = 10^\circ 12' 58''$  (RT)  
 $D = 1^\circ 33' 25''$   
 $R = 3,680.06'$   
 $T = 328.95'$   
 $L = 656.16'$   
 $E = 14.67'$   
 $e =$   
 T.R. =  
 S.E. RUN =  
 P.C. STA. = 107+81.11  
 P.T. STA. = 114+37.27

EXIST. CURVE BRAIN\_E\_39  
 PI STA. = 104+40.51  
 $\Delta = 3^\circ 39' 15''$  (LT)  
 $D = 1^\circ 13' 20''$   
 $R = 4,687.55'$   
 $T = 149.53'$   
 $L = 298.96'$   
 $E = 2.38'$   
 $e =$   
 T.R. =  
 S.E. RUN =  
 P.C. STA. = 102+90.98  
 P.T. STA. = 105+89.93



**BENCHMARK PT.#2335**  
 ELEV 588.38  
 STA. 99+78.07 53.095 RT  
 CUT CROSS IN SOUTH END OF  
 DOUBLE TRAFFIC VAULT PAD AT SW  
 CORNER OF BRAINARD AVE. AND  
 BURNHAM AVE.

**BENCHMARK PT.#5614**  
 ELEV 588.53  
 STA. 115+65.61 32.92 RT  
 USGS DISC (ME1821) IN HEADWALL  
 ON SOUTH SIDE OF BRAINARD AVE.  
 ~100' WEST OF POWDERHORN LAKE  
 ENTRANCE

MODEL: Default  
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USER NAME = kendy.estimable	DESIGNED - AAT	REVISED -
DRAWN - AAT	REVISED -	
PLOT SCALE = 200,0000' / in.	CHECKED - CMP	REVISED -
PLOT DATE = 4/26/2022	DATE - 04/26/2022	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

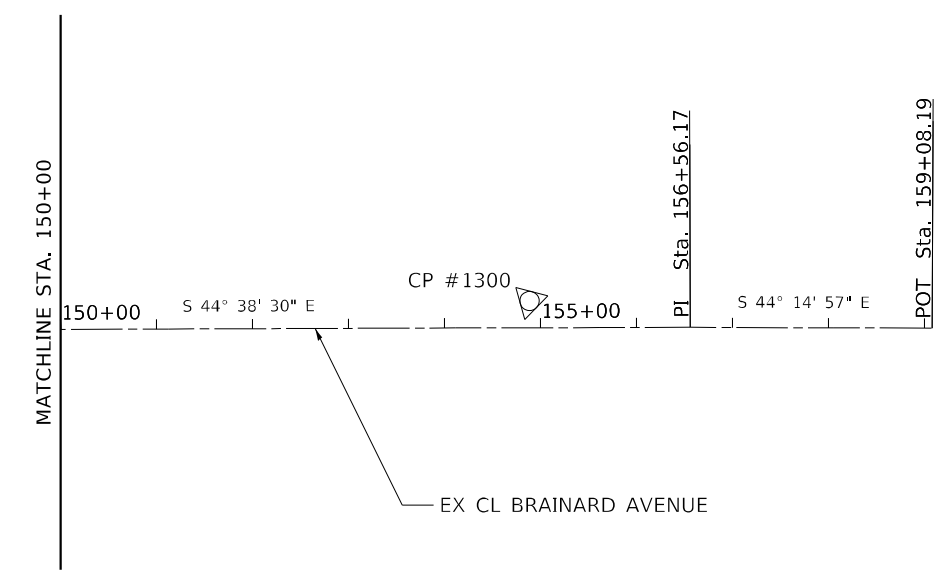
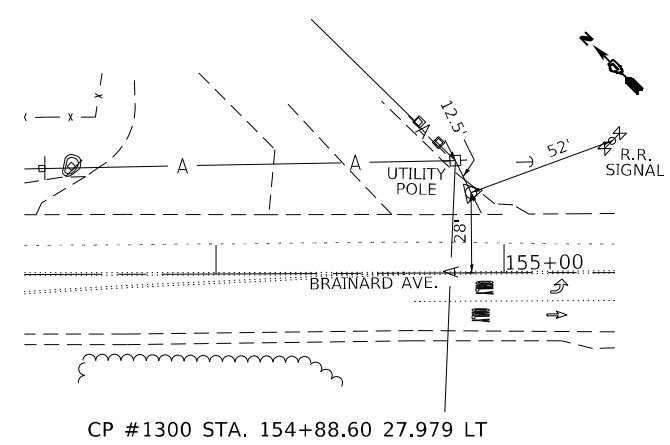
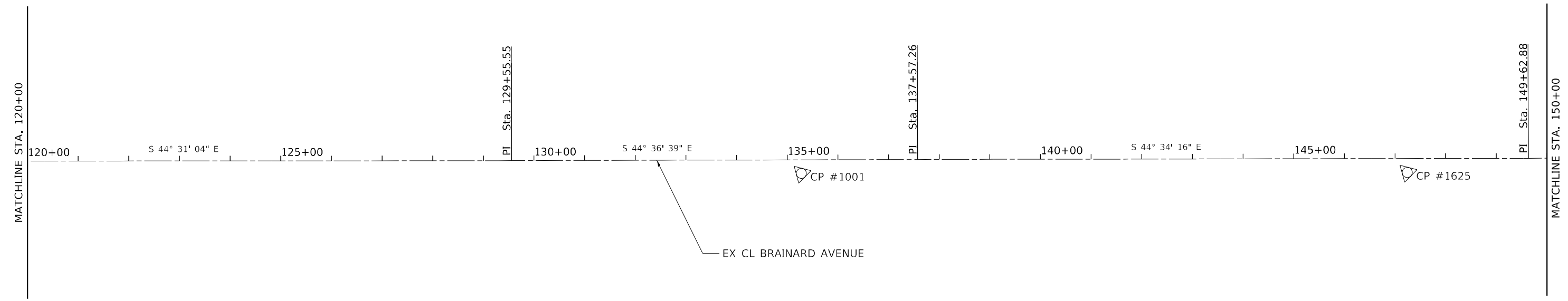
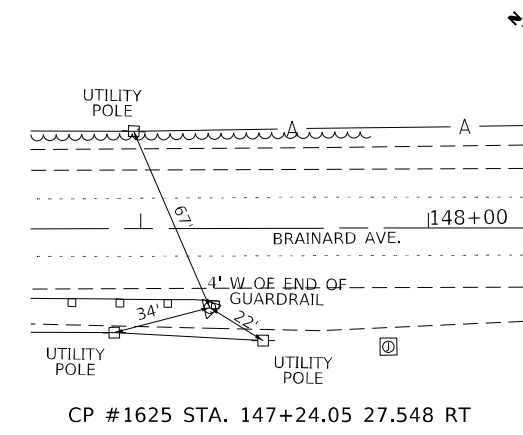
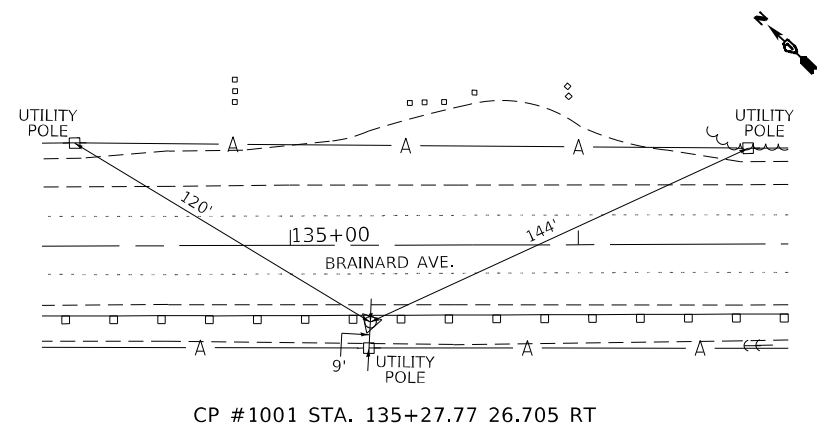
**BRAINARD AVE FROM MUSKEGON AVE TO STATE LINE RD  
 ALIGNMENTS, BENCHMARKS AND TIES**

SCALE: 1"=100'    SHEET 1 OF 2 SHEETS    STA. 90+00.00 TO STA. 120+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3592	2021-011-R5-SR&SW	COOK	57	7
CONTRACT NO. 62N72			ILLINOIS FED. AID PROJECT	

BENCHMARK PT.#1551  
 ELEV 588.53  
 STA. 152+62.96 32.617 RT  
 USGS DISC (ME1820) IN HEADWALL  
 ON SOUTH SIDE OF BRAINARD AVE.  
 ~400' NW OF ILLINOIS/INDIANA STATE  
 LINE

BENCHMARK PT.#2201  
 ELEV 588.25  
 STA. 138+66.32 32.262 LT  
 CUT CROSS IN CENTER OF HEADWALL  
 ~300' SE OF GRAVEL PULLOFF ON  
 NORTH SIDE OF BRAINARD AVE.



MODEL: Default  
 FILE NAME: p:\bamech\us-east\paw\_bentley.com\WOOD-US-DOIT\Documents\Project IDOT 320211754 - IDOT District 1 Vardus\CAO\_Sheets\Work Order 111P 10262\csh-111p-02.dgn



USER NAME = kendy.estimable	DESIGNED - AAT	REVISED -
DRAWN - AAT	REVISED -	
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PLOT DATE = 4/26/2022	DATE - 4/26/2022	REVISED -

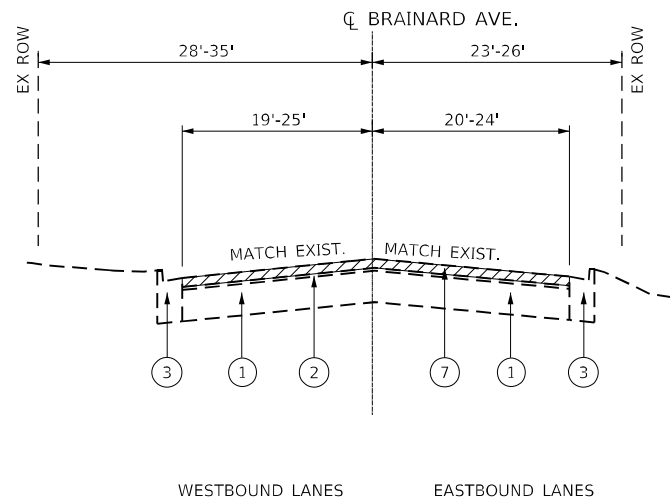
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BRAINARD AVE FROM MUSKEGON AVE TO STATE LINE RD  
 ALIGNMENTS, BENCHMARKS AND TIES**

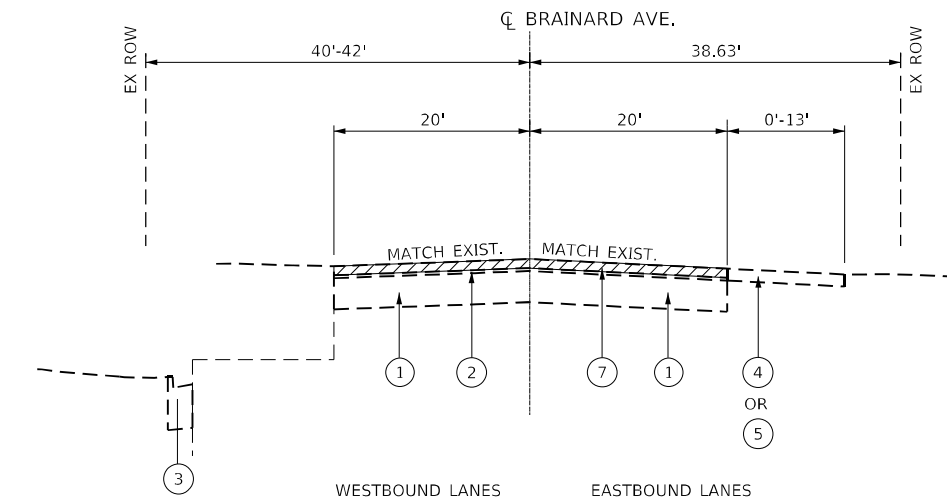
SCALE: 1"=100' SHEET 2 OF 2 SHEETS STA. 120+00.00 TO STA. 159+08.19

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3592	2021-011-R5-SR&SW	COOK	57	7A
CONTRACT NO. 62N72				
ILLINOIS FED. AID PROJECT				

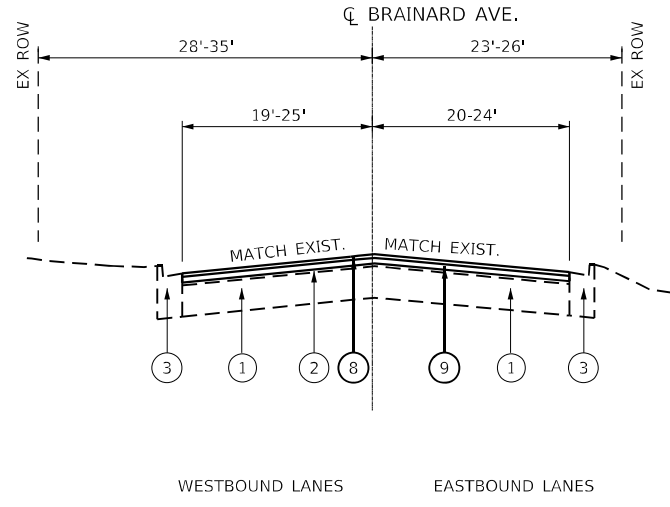




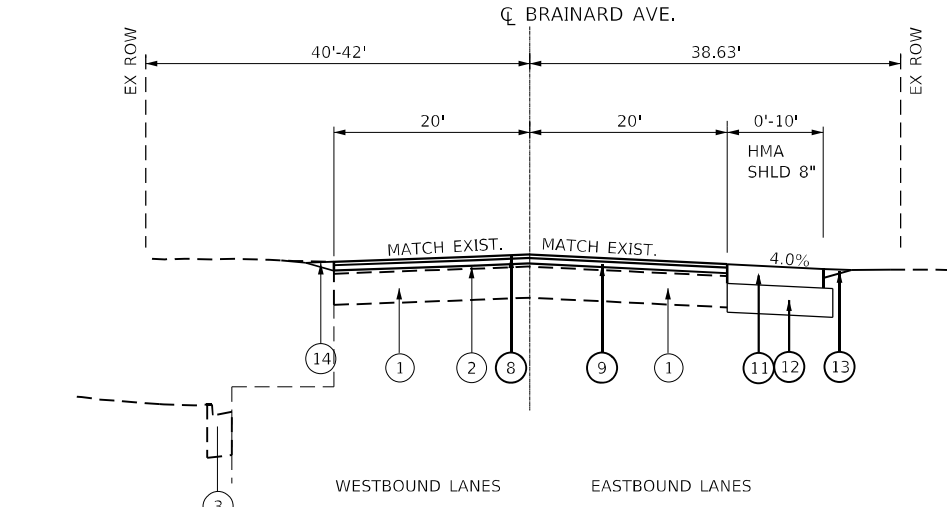
**EXISTING TYPICAL SECTION**  
 STA 39+14 TO STA 92+25  
 WEST OF BURNHAM AVE INTERSECTION  
 (LOOKING EAST)



**EXISTING TYPICAL SECTION**  
 STA 92+25 TO STA 95+89  
 WEST OF BURNHAM AVE INTERSECTION  
 (LOOKING EAST)



**PROPOSED TYPICAL SECTION**  
 STA 39+14 TO STA 92+25  
 WEST OF BURNHAM AVE INTERSECTION  
 (LOOKING EAST)



**PROPOSED TYPICAL SECTION**  
 STA 92+25 TO STA 95+89  
 WEST OF BURNHAM AVE INTERSECTION  
 (LOOKING EAST)

**LEGEND – EXISTING:**

- ① EXISTING P.C.C. PAVEMENT COURSE, 9" (+/-)
- ② EXISTING HMA SURFACE COURSE, VARIES FROM 4"-5.5"
- ③ EXISTING COMBINATION CONCRETE CURB AND GUTTER
- ④ EXISTING HMA SHOULDER
- ⑤ EXISTING AGGREGATE SHOULDER
- ⑥ EXISTING GUARDRAIL TO BE REMOVED

**LEGEND – PROPOSED:**

- ⑦ PROPOSED HMA SURFACE REMOVAL, 3 3/4"
- ⑧ PROPOSED HMA SURFACE COURSE, IL-9.5, MIX "D", N70, 1 3/4"
- ⑨ PROPOSED HMA BINDER COURSE, IL-9.5, N70, 2"
- ⑩ PROPOSED BASE COURSE WIDENING, 11"
- ⑪ PROPOSED HMA SHOULDER, 8"
- ⑫ PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
- ⑬ PROPOSED 3' AGGREGATE WEDGE SHOULDER, TYPE B
- ⑭ PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- ⑮ PROPOSED SHOULDER RUMBLE STRIPS, 8 INCH
- ⑯ PROPOSED MEDIAN RUMBLE STRIPS, 16 INCH

CONTRACTOR SHALL PATCH PRIOR MILLING.  
 LONGITUDINAL JOINT SEALANT SHALL BE PLACED  
 OVER THE HMA BINDER COURSE.

HOT- MIX ASPHALT MIXTURE REQUIREMENTS			
OPERATION	MIXTURE TYPE	AIR VOIDS @ NDES	QUALITY MANAGEMENT PROGRAM (QMP)
PAVEMENT RESURFACING	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	4.0% @ 70 GYR.	QCP
	HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N70	4.0% @ 70 GYR.	QCP
PAVEMENT WIDENING	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	4.0% @ 70 GYR.	QC/QA
	HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N70	4.0% @ 70 GYR.	QC/QA
	BASE COURSE WIDENING (HMA BINDER, IL-19)	4.0% @ 70 GYR.	QC/QA
PATCHING	CLASS D PATCHES (HMA BINDER IL-19.00 MM)	4.0% @ 70 GYR.	QC/QA
	HMA REPLACEMENT OVER PATCHES (HMA BINDER IL-19.00 MM)	4.0% @ 70 GYR.	QC/QA
HMA SHOULDER 8"	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, 1 3/4"	4.0% @ 70 GYR.	QC/QA
	HOT-MIX ASPHALT BINDER COURSE, IL-19, N70, 6 1/4"	4.0% @ 70 GYR.	QC/QA
TEMPORARY RAMP (SPECIAL)	HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N70	4.0% @ 70 GYR.	QC/QA

QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PERFORMANCE (QCP)

**NOTES:**

1. THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQYD/IN.
2. THE AC TYPE FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76 -22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22", UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATIONS.

FILE NAME = P102621-sh-t-typical.ludgn



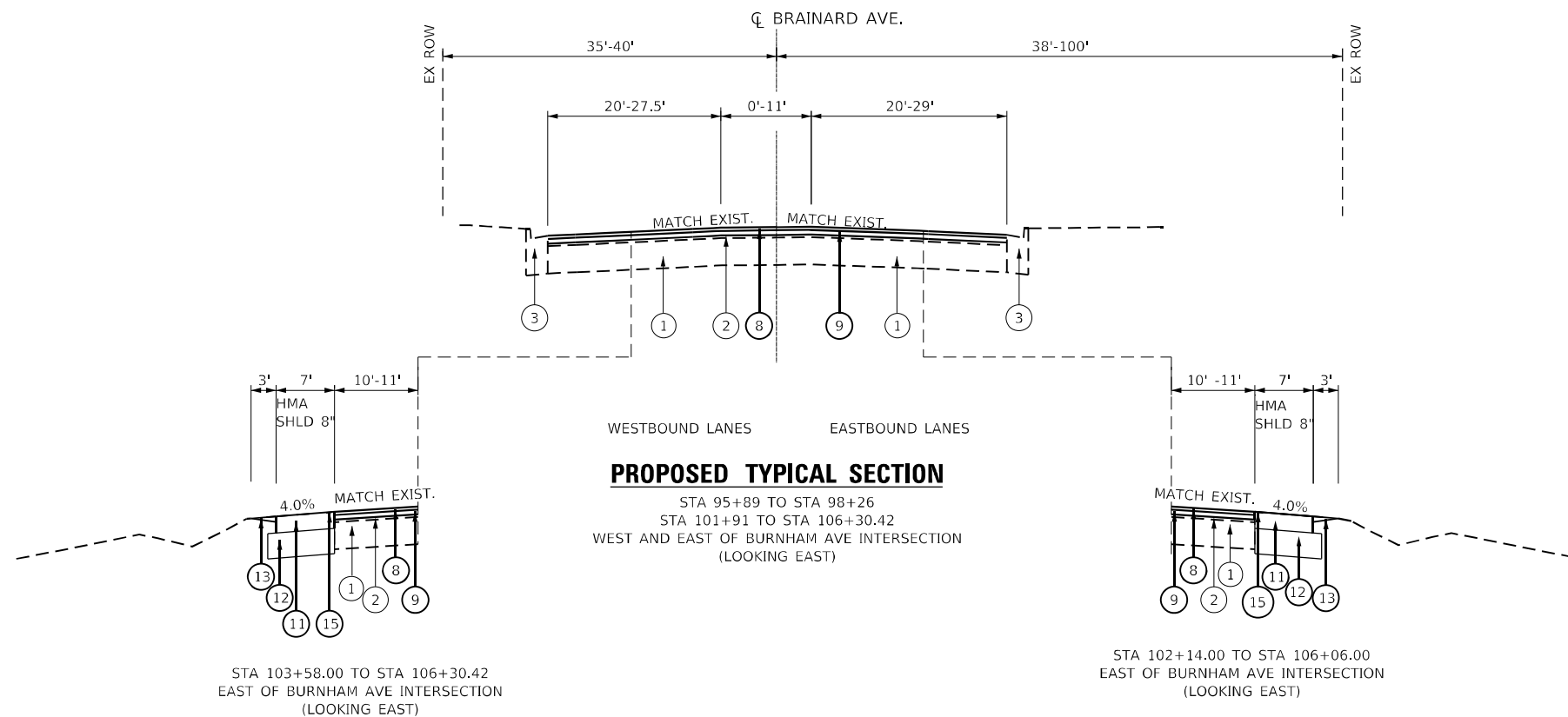
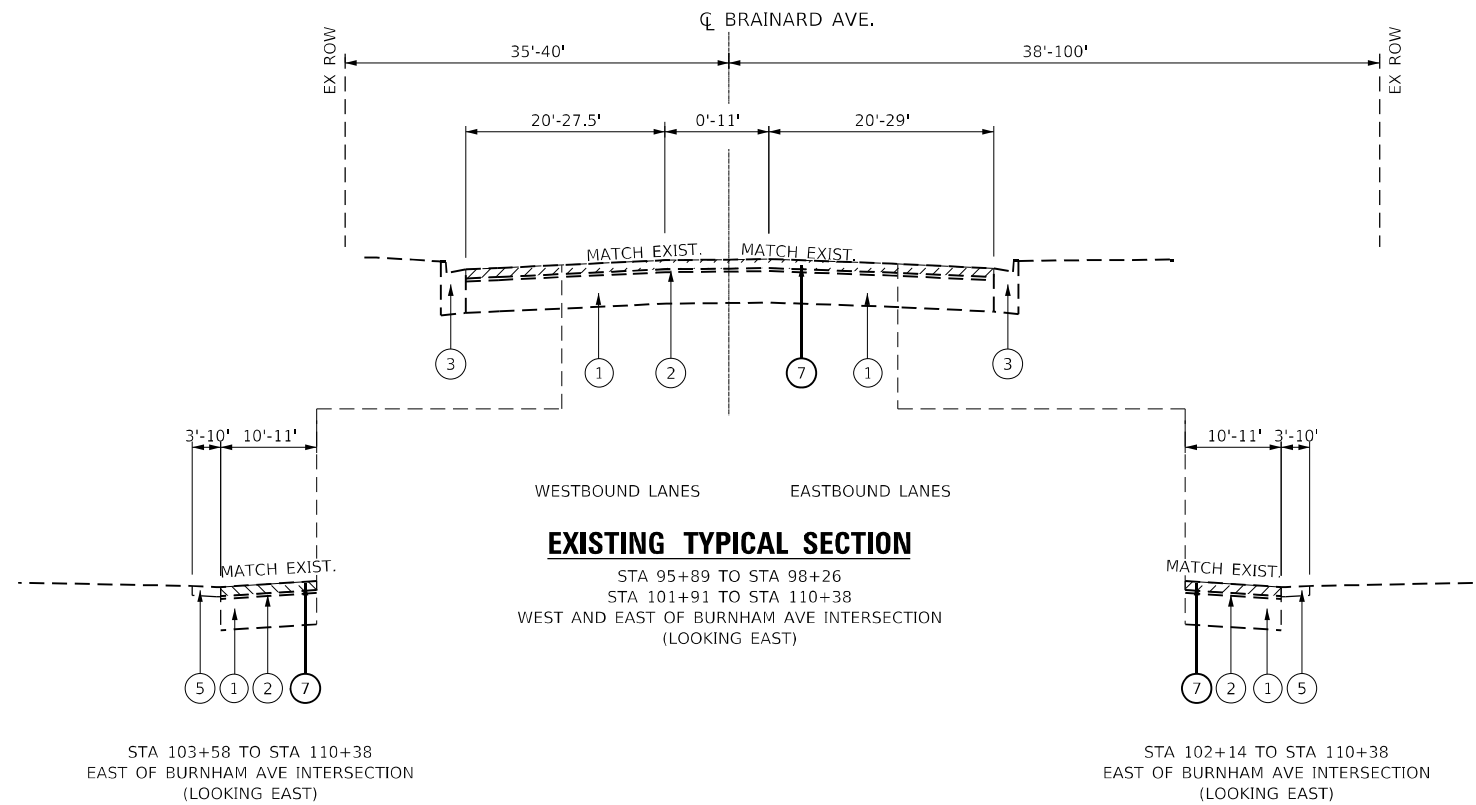
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PLOT DATE = 4/25/2022	DATE - 4/22/2022	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BRAINARD AVE FROM MUSKEGON AVE TO STATE LINE RD  
 TYPICAL SECTIONS**

SCALE: N.T.S. SHEET 1 OF 3 SHEETS STA. 39+14.00 TO STA. 95+88.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3592	2021-011-R5-SR&SW	COOK	57	8
			CONTRACT NO. 62N72	
ILLINOIS FED. AID PROJECT				



**LEGEND – EXISTING:**

- ① EXISTING P.C.C. PAVEMENT COURSE, 9" (+/-)
- ② EXISTING HMA SURFACE COURSE, VARIES FROM 4"-5.5"
- ③ EXISTING COMBINATION CONCRETE CURB AND GUTTER
- ④ EXISTING HMA SHOULDER
- ⑤ EXISTING AGGREGATE SHOULDER
- ⑥ EXISTING GUARDRAIL TO BE REMOVED

**LEGEND – PROPOSED:**

- ⑦ PROPOSED HMA SURFACE REMOVAL, 3 3/4"
- ⑧ PROPOSED HMA SURFACE COURSE, IL-9.5, MIX "D", N70, 1 3/4"
- ⑨ PROPOSED HMA BINDER COURSE, IL-9.5, N70, 2"
- ⑩ PROPOSED BASE COURSE WIDENING, 11"
- ⑪ PROPOSED HMA SHOULDER, 8"
- ⑫ PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
- ⑬ PROPOSED 3' AGGREGATE WEDGE SHOULDER, TYPE B
- ⑭ PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- ⑮ PROPOSED SHOULDER RUMBLE STRIPS, 8 INCH
- ⑯ PROPOSED MEDIAN RUMBLE STRIPS, 16 INCH

FILE NAME = P102621-sh-typical.dgn



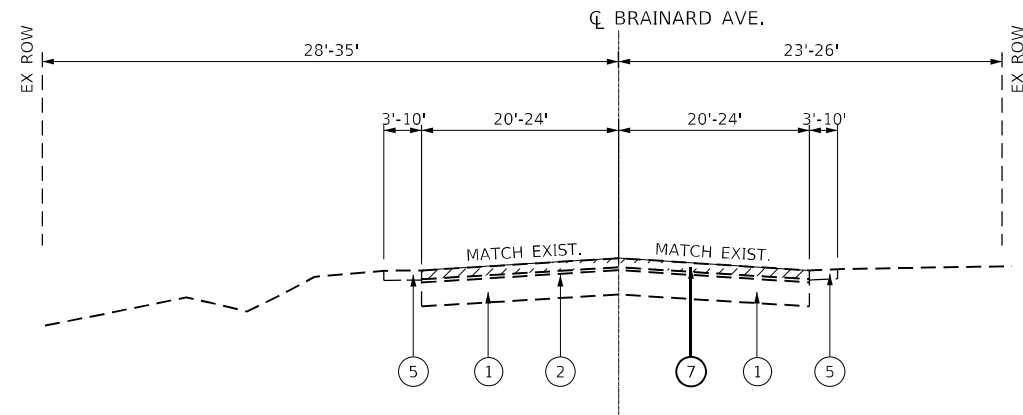
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PLOT DATE = 4/25/2022	CHECKED - CMP	REVISED -
	DATE - 4/22/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BRAINARD AVE FROM MUSKOGON AVE TO STATE LINE RD  
TYPICAL SECTIONS**

SCALE: N.T.S. SHEET 2 OF 3 SHEETS STA. 95+88.00 TO STA. 110+38.00

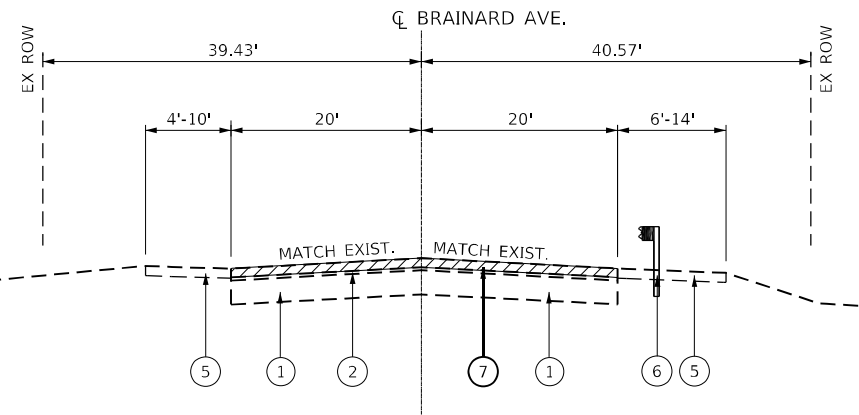
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3592	2021-011-R5-SR&SW	COOK	57	9
			CONTRACT NO. 62N72	
ILLINOIS FED. AID PROJECT				



WESTBOUND LANES EASTBOUND LANES

**EXISTING TYPICAL SECTION**

STA 106+30.42 TO STA 118+05  
 STA 147+28 TO STA 155+00  
 EAST OF BURNHAM AVE INTERSECTION  
 (LOOKING EAST)



WESTBOUND LANES EASTBOUND LANES

**EXISTING TYPICAL SECTION**

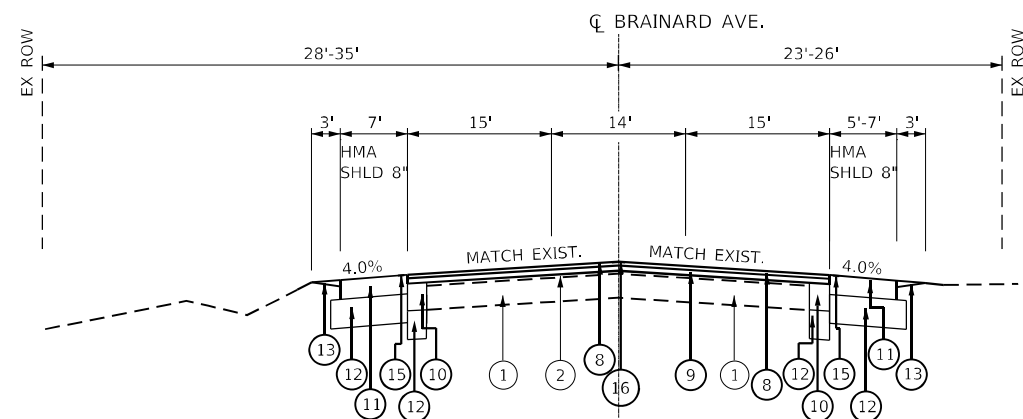
STA 118+05 TO STA 147+28  
 EAST OF BURNHAM AVE INTERSECTION  
 (LOOKING EAST)

**LEGEND – EXISTING:**

- ① EXISTING P.C.C. PAVEMENT COURSE, 9" (+/-)
- ② EXISTING HMA SURFACE COURSE, VARIES FROM 4"-5.5"
- ③ EXISTING COMBINATION CONCRETE CURB AND GUTTER
- ④ EXISTING HMA SHOULDER
- ⑤ EXISTING AGGREGATE SHOULDER
- ⑥ EXISTING GUARDRAIL TO BE REMOVED

**LEGEND – PROPOSED:**

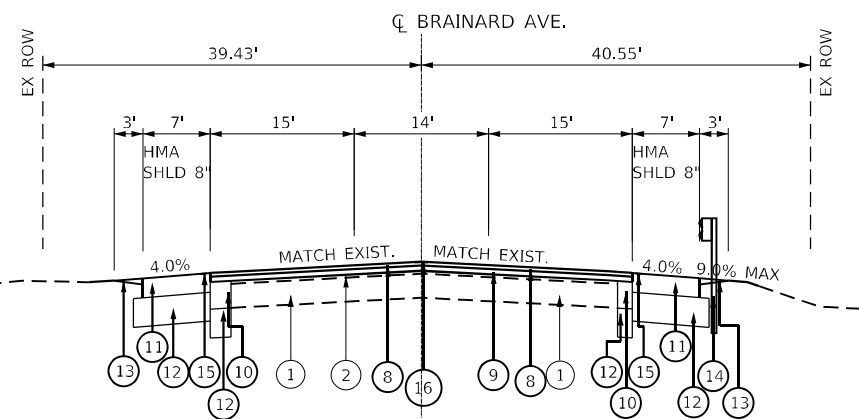
- ⑦ PROPOSED HMA SURFACE REMOVAL, 3 3/4"
- ⑧ PROPOSED HMA SURFACE COURSE, IL-9.5, MIX "D", N70, 1 3/4"
- ⑨ PROPOSED HMA BINDER COURSE, IL-9.5, N70, 2"
- ⑩ PROPOSED BASE COURSE WIDENING, 11"
- ⑪ PROPOSED HMA SHOULDER, 8"
- ⑫ PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
- ⑬ PROPOSED 3' AGGREGATE WEDGE SHOULDER, TYPE B
- ⑭ PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- ⑮ PROPOSED SHOULDER RUMBLE STRIPS, 8 INCH
- ⑯ PROPOSED MEDIAN RUMBLE STRIPS, 16 INCH



WESTBOUND LANES EASTBOUND LANES

**PROPOSED TYPICAL SECTION**

STA 106+30.42 TO STA 118+05  
 STA 147+28 TO STA 155+87  
 EAST OF BURNHAM AVE INTERSECTION  
 (LOOKING EAST)



WESTBOUND LANES EASTBOUND LANES

**PROPOSED TYPICAL SECTION**

STA 118+05 TO STA 147+28  
 EAST OF BURNHAM AVE INTERSECTION  
 (LOOKING EAST)

FILE NAME = P102621-sh1-typical1.dgn



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	DRAWN - KE	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - CMP	REVISED -
PLOT DATE = 4/25/2022	DATE - 4/22/2022	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BRAINARD AVE FROM MUSKEGON AVE TO STATE LINE RD  
 TYPICAL SECTIONS

SCALE: N.T.S. SHEET 3 OF 3 SHEETS STA. 110+38.00 TO STA. 147+28.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3592	2021-011-R5-SR&SW	COOK	57	9A
CONTRACT NO. 62N72				
ILLINOIS FED. AID PROJECT				

INTERSECTION	20200100 EARTH EXCAVATION CU YD	21101615 TOPSOIL FURNISH AND PLACE, 4" SQ YD	25200110 SODDING, SALT TOLERANT SQ YD	25200200 SUPPLEMENTAL WATERING UNIT	42001300 PROTECTIVE COAT SQ YD	42400200 PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH SQ FT	42400200 PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH SQ FT	44000600 SIDEWALK REMOVAL SQ FT	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT, TYPE B-6, 12 FOOT	X3510416 AGGREGATE BASE COURSE, TYPE CA-16 TON	X4240800 DETECTABLE WARNINGS (SPECIAL) SQ FT
BRAINARD AVE AND 133RD ST	5	8	8	0.4	24	478		478	59		24
BRAINARD AVE AND CARONDOLET AVE	2	4	4	0.2	33	253		253	24		12
BRAINARD AVE AND BALTIMORE AVE	2	0	0	0.0	36	265		627	40		12
BRAINARD AVE AND BRANDON AVE	3	0	0	0.0	89	0	675	276	79		24
BRAINARD AVE AND 136TH ST	1	7	7	0.3	21	120		158	32		12
BRAINARD AVE AND METRA ENTRANCE 1	3	0	0	0.0	46	368		444	20	76	24
BRAINARD AVE AND METRA ENTRANCE 2	2	0	0	0.0	28	204		204	28		27
BRAINARD AVE AND METRA ENTRANCE 3	2	0	0	0.0	28	209		209	28		28
BRAINARD AVE AND BUFFALO AVE	2	10	10	0.5	20	180		180	0		24
BRAINARD AVE AND METRA ENTRANCE 4	2	0	0	0.0	26	185		177	28		23
BRAINARD AVE AND METRA ENTRANCE 5	4	0	0	0.0	56	455		476	31		22
BRAINARD AVE AND METRA STATION MIDBLOCK CROSSING	1	3	3	0.1	33	253		156	20		40
TOTAL	29	32	32	1.4	438	2,979	675	3,636	352	76	272

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USER NAME = kandy.estimote  
 DRAWN - KE  
 CHECKED - CMP  
 PLOT SCALE = 2.0000' / in.  
 PLOT DATE = 4/25/2022

DESIGNED - KE  
 DRAWN - KE  
 CHECKED - CMP  
 DATE - 4/22/2022

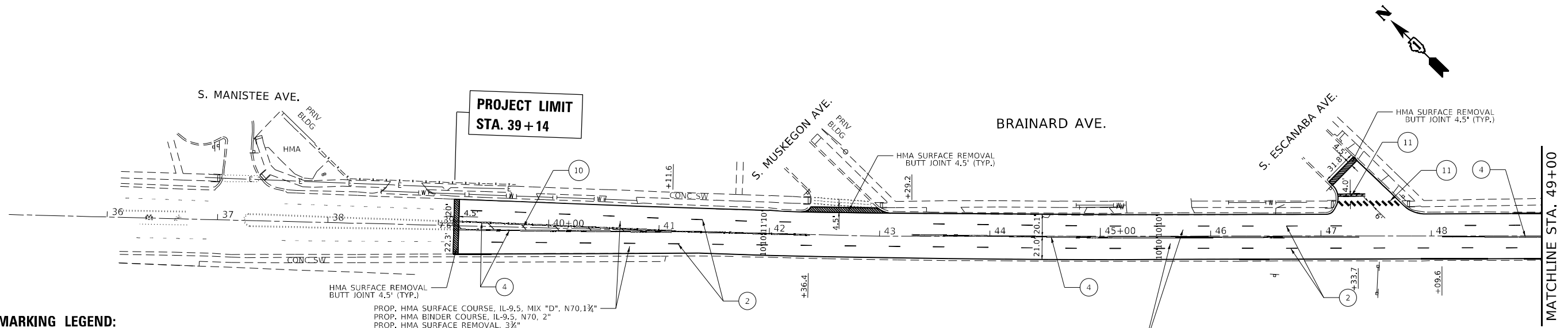
REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BRAINARD AVE FROM MUSKEGON AVE TO STATE LINE RD  
 ADA CURB RAMP SCHEDULE OF QUANTITIES

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3592	2021-011-R5-SR&SW	COOK	57	10
CONTRACT NO. 62N72				
ILLINOIS FED. AID PROJECT				

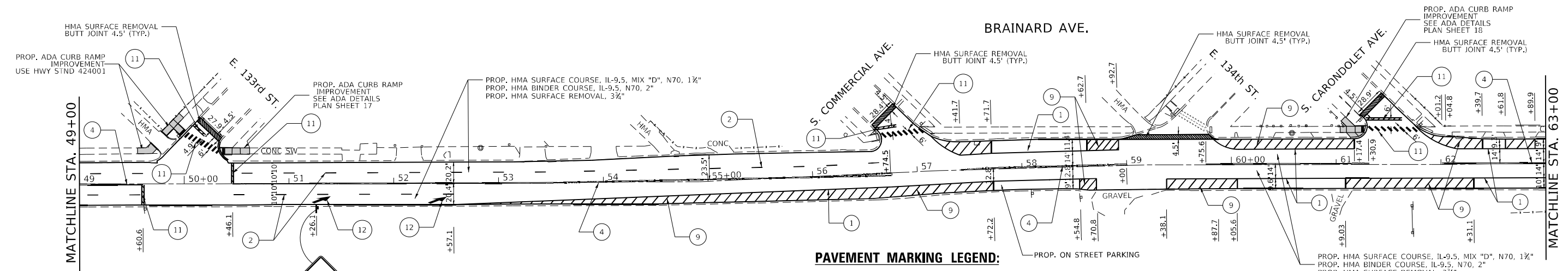


**PAVEMENT MARKING LEGEND:**

- |   |   |
|---|---|
| ① PROP. THERMOPLASTIC PM, 4" (SOLID WHITE)      | ⑧ PROP. HOT SPRAY THERMOPLASTIC PM, 12" (SOLID YELLOW)      |
| ② PROP. THERMOPLASTIC PM, 4" (SKIP DASH WHITE)  | ⑨ PROP. THERMOPLASTIC PM, 12" (SOLID WHITE)                 |
| ③ PROP. THERMOPLASTIC PM, 4" (YELLOW)           | ⑩ PROP. THERMOPLASTIC PM, 12" (SOLID YELLOW)                |
| ④ PROP. THERMOPLASTIC PM, 4" (DOUBLE YELLOW)    | ⑪ PROP. THERMOPLASTIC PM, 24" (WHITE)                       |
| ⑤ PROP. THERMOPLASTIC PM, 4" (SKIP DASH YELLOW) | ⑫ PROP. THERMOPLASTIC PM, LETTERS & SYMBOLS (TYP)           |
| ⑥ PROP. THERMOPLASTIC PM, 6" (SOLID WHITE)      | ⑬ PROP. PREFORMED THERMOPLASTIC PM, LETTERS & SYMBOLS (TYP) |
| ⑦ PROP. THERMOPLASTIC PM, 6" (DOTTED WHITE)     |   |

PROP. HMA SURFACE COURSE, IL-9.5, MIX "D", N70, 1 3/4"  
 PROP. HMA BINDER COURSE, IL-9.5, N70, 2"  
 PROP. HMA SURFACE REMOVAL, 3 3/4"

NOTE:  
 FOR RAISED REFLECTIVE PAVEMENT MARKERS PLACEMENT  
 SEE PLAN SHEET 34 (TC-11) FOR DETAILS



**PAVEMENT MARKING LEGEND:**

- |   |   |
|---|---|
| ① PROP. THERMOPLASTIC PM, 4" (SOLID WHITE)      | ⑧ PROP. HOT SPRAY THERMOPLASTIC PM, 12" (SOLID YELLOW)      |
| ② PROP. THERMOPLASTIC PM, 4" (SKIP DASH WHITE)  | ⑨ PROP. THERMOPLASTIC PM, 12" (SOLID WHITE)                 |
| ③ PROP. THERMOPLASTIC PM, 4" (YELLOW)           | ⑩ PROP. THERMOPLASTIC PM, 12" (SOLID YELLOW)                |
| ④ PROP. THERMOPLASTIC PM, 4" (DOUBLE YELLOW)    | ⑪ PROP. THERMOPLASTIC PM, 24" (WHITE)                       |
| ⑤ PROP. THERMOPLASTIC PM, 4" (SKIP DASH YELLOW) | ⑫ PROP. THERMOPLASTIC PM, LETTERS & SYMBOLS (TYP)           |
| ⑥ PROP. THERMOPLASTIC PM, 6" (SOLID WHITE)      | ⑬ PROP. PREFORMED THERMOPLASTIC PM, LETTERS & SYMBOLS (TYP) |
| ⑦ PROP. THERMOPLASTIC PM, 6" (DOTTED WHITE)     |   |

NOTE:  
 FOR RAISED REFLECTIVE PAVEMENT MARKERS PLACEMENT  
 SEE PLAN SHEET 34 (TC-11) FOR DETAILS



FILE NAME = P102621-shr-plan\_01.dgn



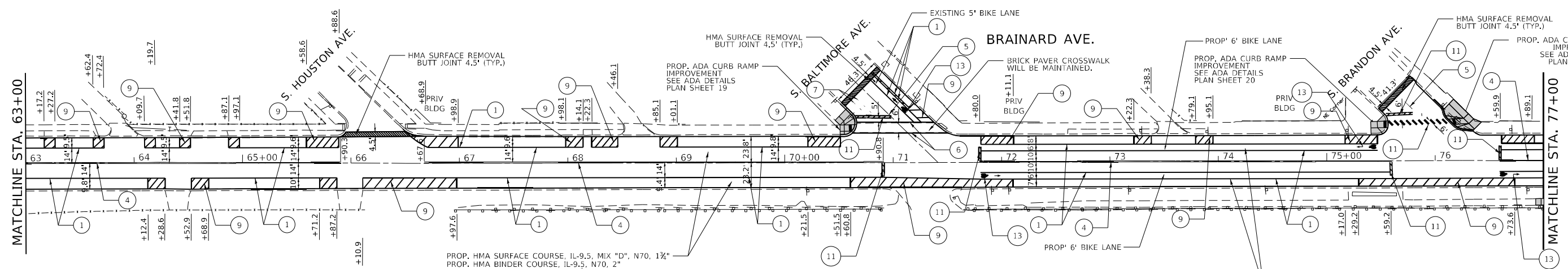
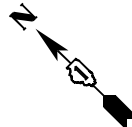
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PLOT SCALE = 100.0000' / in.	DRAWN - KE	REVISED -
PLOT DATE = 4/25/2022	CHECKED - CMP	REVISED -
	DATE - 1/12/2022	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BRAINARD AVE FROM MUSKEGON AVE TO STATE LINE RD  
 ROADWAY AND PAVEMENT MARKING PLANS**

SCALE: 1"=50' SHEET 1 OF 5 SHEETS STA. 39+00.00 TO STA. 64+00.00

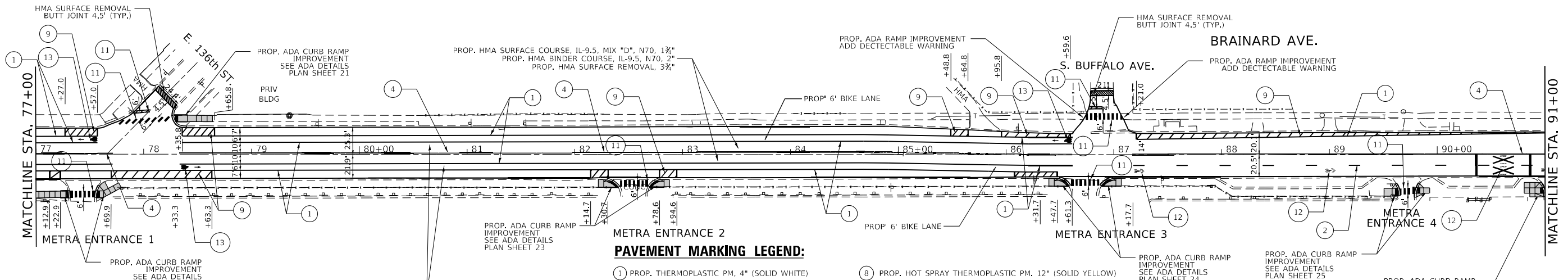
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3592	2021-011-R5-SR&SW	COOK	57	11
CONTRACT NO. 62N72				
ILLINOIS FED. AID PROJECT				



**PAVEMENT MARKING LEGEND:**

- |   |   |
|---|---|
| ① PROP. THERMOPLASTIC PM. 4" (SOLID WHITE)      | ⑧ PROP. HOT SPRAY THERMOPLASTIC PM. 12" (SOLID YELLOW)      |
| ② PROP. THERMOPLASTIC PM. 4" (SKIP DASH WHITE)  | ⑨ PROP. THERMOPLASTIC PM. 12" (SOLID WHITE)                 |
| ③ PROP. THERMOPLASTIC PM. 4" (YELLOW)           | ⑩ PROP. THERMOPLASTIC PM. 12" (SOLID YELLOW)                |
| ④ PROP. THERMOPLASTIC PM. 4" (DOUBLE YELLOW)    | ⑪ PROP. THERMOPLASTIC PM. 24" (WHITE)                       |
| ⑤ PROP. THERMOPLASTIC PM. 4" (SKIP DASH YELLOW) | ⑫ PROP. THERMOPLASTIC PM. LETTERS & SYMBOLS (TYP)           |
| ⑥ PROP. THERMOPLASTIC PM. 6" (SOLID WHITE)      | ⑬ PROP. PREFORMED THERMOPLASTIC PM. LETTERS & SYMBOLS (TYP) |
| ⑦ PROP. THERMOPLASTIC PM. 6" (DOTTED WHITE)     |   |

NOTE:  
FOR RAISED REFLECTIVE PAVEMENT MARKERS PLACEMENT  
SEE PLAN SHEET 34 (TC-11) FOR DETAILS



**PAVEMENT MARKING LEGEND:**

- |   |   |
|---|---|
| ① PROP. THERMOPLASTIC PM. 4" (SOLID WHITE)      | ⑧ PROP. HOT SPRAY THERMOPLASTIC PM. 12" (SOLID YELLOW)      |
| ② PROP. THERMOPLASTIC PM. 4" (SKIP DASH WHITE)  | ⑨ PROP. THERMOPLASTIC PM. 12" (SOLID WHITE)                 |
| ③ PROP. THERMOPLASTIC PM. 4" (YELLOW)           | ⑩ PROP. THERMOPLASTIC PM. 12" (SOLID YELLOW)                |
| ④ PROP. THERMOPLASTIC PM. 4" (DOUBLE YELLOW)    | ⑪ PROP. THERMOPLASTIC PM. 24" (WHITE)                       |
| ⑤ PROP. THERMOPLASTIC PM. 4" (SKIP DASH YELLOW) | ⑫ PROP. THERMOPLASTIC PM. LETTERS & SYMBOLS (TYP)           |
| ⑥ PROP. THERMOPLASTIC PM. 6" (SOLID WHITE)      | ⑬ PROP. PREFORMED THERMOPLASTIC PM. LETTERS & SYMBOLS (TYP) |
| ⑦ PROP. THERMOPLASTIC PM. 6" (DOTTED WHITE)     |   |

NOTE:  
FOR RAISED REFLECTIVE PAVEMENT MARKERS PLACEMENT  
SEE PLAN SHEET 34 (TC-11) FOR DETAILS

FILE NAME = P102621-shr-plan\_02.dgn



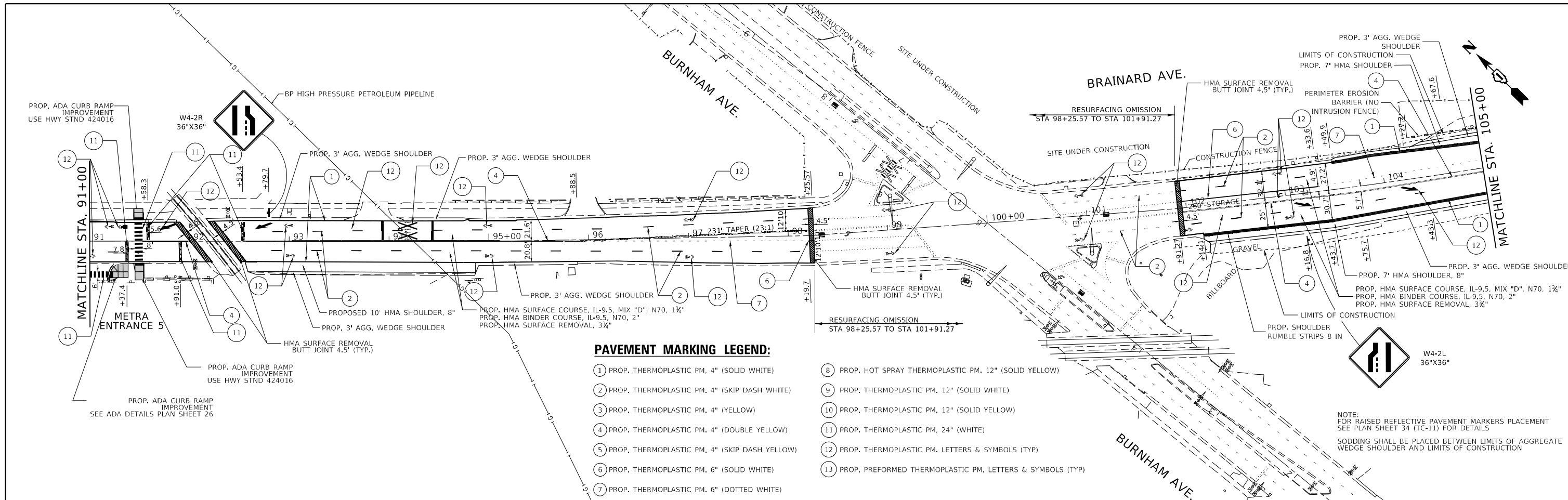
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	DATE - 1/12/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BRAINARD AVE FROM MUSKOGON AVE TO STATE LINE RD  
ROADWAY AND PAVEMENT MARKING PLANS**

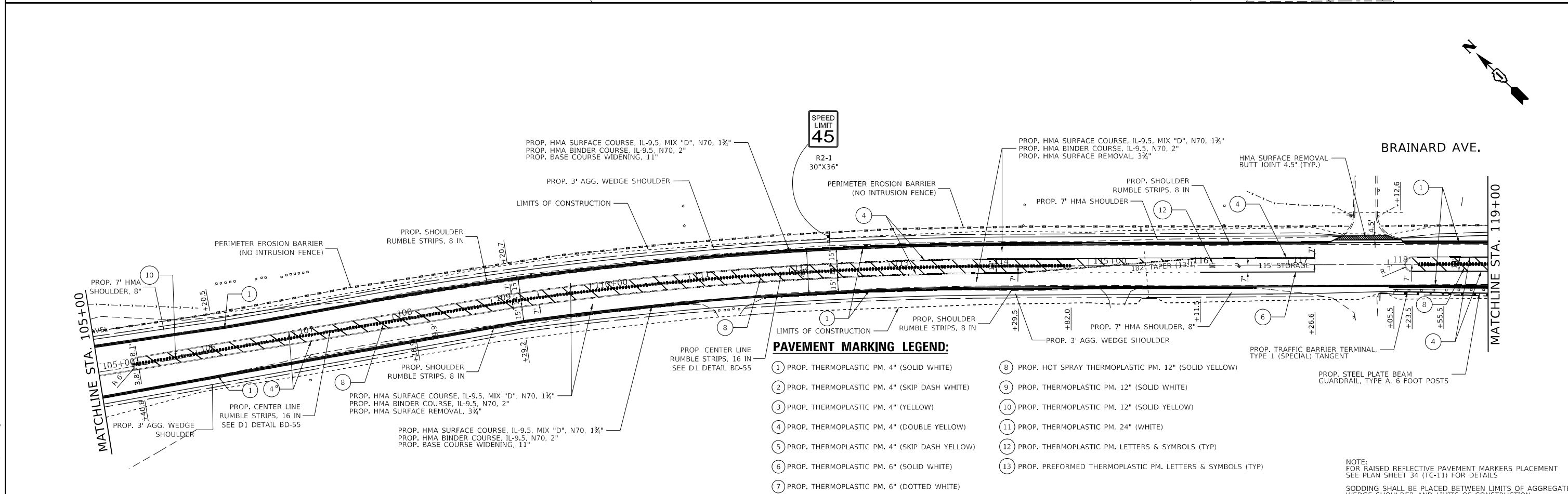
SCALE: 1"=50' SHEET 2 OF 5 SHEETS STA. 64+00.00 TO STA. 91+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3592	2021-011-R5-SR&SW	COOK	57	12
CONTRACT NO. 62N72				
ILLINOIS FED. AID PROJECT				



**PAVEMENT MARKING LEGEND:**

- 1 PROP. THERMOPLASTIC PM, 4" (SOLID WHITE)
- 2 PROP. THERMOPLASTIC PM, 4" (SKIP DASH WHITE)
- 3 PROP. THERMOPLASTIC PM, 4" (YELLOW)
- 4 PROP. THERMOPLASTIC PM, 4" (DOUBLE YELLOW)
- 5 PROP. THERMOPLASTIC PM, 4" (SKIP DASH YELLOW)
- 6 PROP. THERMOPLASTIC PM, 6" (SOLID WHITE)
- 7 PROP. THERMOPLASTIC PM, 6" (DOTTED WHITE)
- 8 PROP. HOT SPRAY THERMOPLASTIC PM, 12" (SOLID YELLOW)
- 9 PROP. THERMOPLASTIC PM, 12" (SOLID WHITE)
- 10 PROP. THERMOPLASTIC PM, 12" (SOLID YELLOW)
- 11 PROP. THERMOPLASTIC PM, 24" (WHITE)
- 12 PROP. THERMOPLASTIC PM, LETTERS & SYMBOLS (TYP)
- 13 PROP. PREFORMED THERMOPLASTIC PM, LETTERS & SYMBOLS (TYP)



**PAVEMENT MARKING LEGEND:**

- 1 PROP. THERMOPLASTIC PM, 4" (SOLID WHITE)
- 2 PROP. THERMOPLASTIC PM, 4" (SKIP DASH WHITE)
- 3 PROP. THERMOPLASTIC PM, 4" (YELLOW)
- 4 PROP. THERMOPLASTIC PM, 4" (DOUBLE YELLOW)
- 5 PROP. THERMOPLASTIC PM, 4" (SKIP DASH YELLOW)
- 6 PROP. THERMOPLASTIC PM, 6" (SOLID WHITE)
- 7 PROP. THERMOPLASTIC PM, 6" (DOTTED WHITE)
- 8 PROP. HOT SPRAY THERMOPLASTIC PM, 12" (SOLID YELLOW)
- 9 PROP. THERMOPLASTIC PM, 12" (SOLID WHITE)
- 10 PROP. THERMOPLASTIC PM, 12" (SOLID YELLOW)
- 11 PROP. THERMOPLASTIC PM, 24" (WHITE)
- 12 PROP. THERMOPLASTIC PM, LETTERS & SYMBOLS (TYP)
- 13 PROP. PREFORMED THERMOPLASTIC PM, LETTERS & SYMBOLS (TYP)

FILE NAME = P102621-shr-plan\_03.dgn



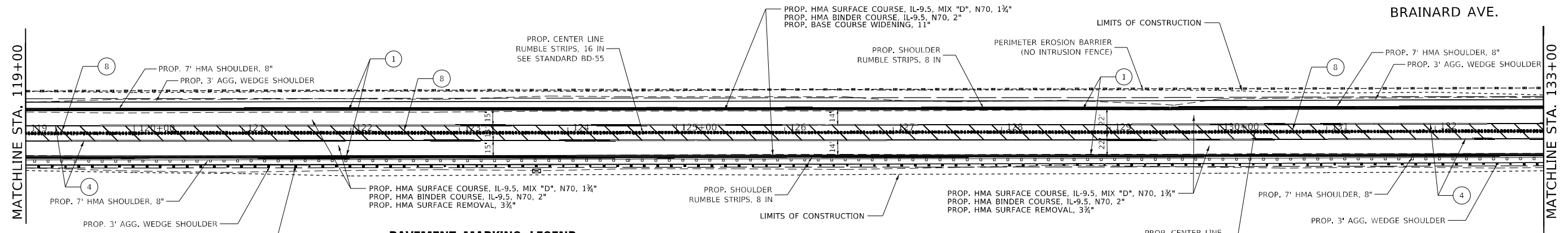
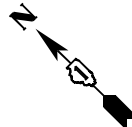
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PLOT DATE = 4/25/2022	CHECKED - CMP	REVISED -
	DATE - 1/12/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>BRAINARD AVE FROM MUSKOGON AVE TO STATE LINE RD ROADWAY AND PAVEMENT MARKING PLANS</b>		
SCALE: 1"=50'	SHEET 3 OF 5 SHEETS	STA. 91+00.00 TO STA. 119+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3592	2021-011-R5-SR&SW	COOK	57	13
CONTRACT NO. 62N72				
ILLINOIS FED. AID PROJECT				

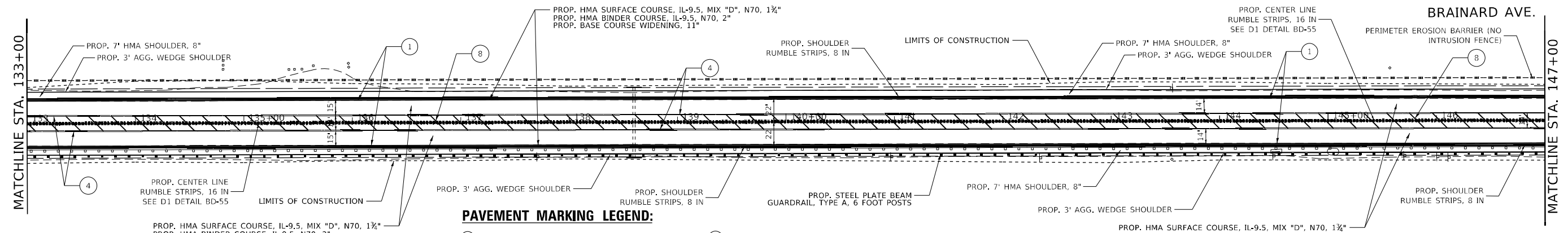
NOTE:  
FOR RAISED REFLECTIVE PAVEMENT MARKERS PLACEMENT  
SEE PLAN SHEET 34 (TC-11) FOR DETAILS  
SODDING SHALL BE PLACED BETWEEN LIMITS OF AGGREGATE  
WEDGE SHOULDER AND LIMITS OF CONSTRUCTION



**PAVEMENT MARKING LEGEND:**

- |   |   |
|---|---|
| ① PROP. THERMOPLASTIC PM, 4" (SOLID WHITE)      | ⑧ PROP. HOT SPRAY THERMOPLASTIC PM, 12" (SOLID YELLOW)      |
| ② PROP. THERMOPLASTIC PM, 4" (SKIP DASH WHITE)  | ⑨ PROP. THERMOPLASTIC PM, 12" (SOLID WHITE)                 |
| ③ PROP. THERMOPLASTIC PM, 4" (YELLOW)           | ⑩ PROP. THERMOPLASTIC PM, 12" (SOLID YELLOW)                |
| ④ PROP. THERMOPLASTIC PM, 4" (DOUBLE YELLOW)    | ⑪ PROP. THERMOPLASTIC PM, 24" (WHITE)                       |
| ⑤ PROP. THERMOPLASTIC PM, 4" (SKIP DASH YELLOW) | ⑫ PROP. THERMOPLASTIC PM, LETTERS & SYMBOLS (TYP)           |
| ⑥ PROP. THERMOPLASTIC PM, 6" (SOLID WHITE)      | ⑬ PROP. PREFORMED THERMOPLASTIC PM, LETTERS & SYMBOLS (TYP) |
| ⑦ PROP. THERMOPLASTIC PM, 6" (DOTTED WHITE)     |   |

NOTE:  
FOR RAISED REFLECTIVE PAVEMENT MARKERS PLACEMENT  
SEE PLAN SHEET 34 (TC-11) FOR DETAILS  
SODDING SHALL BE PLACED BETWEEN LIMITS OF AGGREGATE  
WEDGE SHOULDER AND LIMITS OF CONSTRUCTION



**PAVEMENT MARKING LEGEND:**

- |   |   |
|---|---|
| ① PROP. THERMOPLASTIC PM, 4" (SOLID WHITE)      | ⑧ PROP. HOT SPRAY THERMOPLASTIC PM, 12" (SOLID YELLOW)      |
| ② PROP. THERMOPLASTIC PM, 4" (SKIP DASH WHITE)  | ⑨ PROP. THERMOPLASTIC PM, 12" (SOLID WHITE)                 |
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| ④ PROP. THERMOPLASTIC PM, 4" (DOUBLE YELLOW)    | ⑪ PROP. THERMOPLASTIC PM, 24" (WHITE)                       |
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| ⑥ PROP. THERMOPLASTIC PM, 6" (SOLID WHITE)      | ⑬ PROP. PREFORMED THERMOPLASTIC PM, LETTERS & SYMBOLS (TYP) |
| ⑦ PROP. THERMOPLASTIC PM, 6" (DOTTED WHITE)     |   |

NOTE:  
FOR RAISED REFLECTIVE PAVEMENT MARKERS PLACEMENT  
SEE PLAN SHEET 34 (TC-11) FOR DETAILS  
SODDING SHALL BE PLACED BETWEEN LIMITS OF AGGREGATE  
WEDGE SHOULDER AND LIMITS OF CONSTRUCTION  
PROPOSED STEEL GUARDRAIL POST SHALL STRADDLE EXISTING  
CULVERT AT STA. 138+59.92

FILE NAME = P102621-sh1t-plan\_04.dgn



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	DATE - 1/12/2022	REVISED -

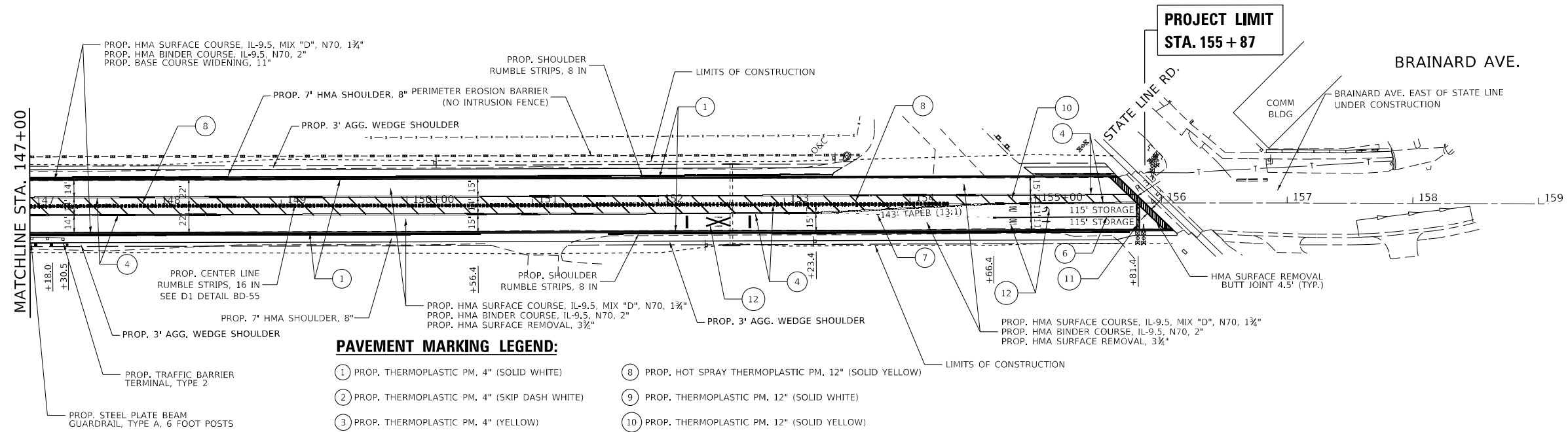
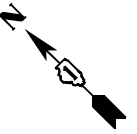
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BRAINARD AVE FROM MUSKEGON AVE TO STATE LINE RD  
ROADWAY AND PAVEMENT MARKING PLANS**

SCALE: 1"=50' SHEET 4 OF 5 SHEETS STA. 119+00.00 TO STA. 147+00.00

F.A.U. RTE. 3592	SECTION 2021-011-R5-SR&SW	COUNTY COOK	TOTAL SHEETS 57	SHEET NO. 14
			CONTRACT NO. 62N72	
		ILLINOIS FED. AID PROJECT		





**PAVEMENT MARKING LEGEND:**

- |   |   |
|---|---|
| ① PROP. THERMOPLASTIC PM, 4" (SOLID WHITE)      | ⑧ PROP. HOT SPRAY THERMOPLASTIC PM, 12" (SOLID YELLOW)      |
| ② PROP. THERMOPLASTIC PM, 4" (SKIP DASH WHITE)  | ⑨ PROP. THERMOPLASTIC PM, 12" (SOLID WHITE)                 |
| ③ PROP. THERMOPLASTIC PM, 4" (YELLOW)           | ⑩ PROP. THERMOPLASTIC PM, 12" (SOLID YELLOW)                |
| ④ PROP. THERMOPLASTIC PM, 4" (DOUBLE YELLOW)    | ⑪ PROP. THERMOPLASTIC PM, 24" (WHITE)                       |
| ⑤ PROP. THERMOPLASTIC PM, 4" (SKIP DASH YELLOW) | ⑫ PROP. THERMOPLASTIC PM, LETTERS & SYMBOLS (TYP)           |
| ⑥ PROP. THERMOPLASTIC PM, 6" (SOLID WHITE)      | ⑬ PROP. PREFORMED THERMOPLASTIC PM, LETTERS & SYMBOLS (TYP) |
| ⑦ PROP. THERMOPLASTIC PM, 6" (DOTTED WHITE)     |   |

NOTE:  
FOR RAISED REFLECTIVE PAVEMENT MARKERS PLACEMENT  
SEE PLAN SHEET 34 (TC-11) FOR DETAILS  
SODDING SHALL BE PLACED BETWEEN LIMITS OF AGGREGATE  
WEDGE SHOULDER AND LIMITS OF CONSTRUCTION

FILE NAME = P102621-shr-plan\_05.dgn



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	DATE - 1/12/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BRAINARD AVE FROM MUSKEGON AVE TO STATE LINE RD  
ROADWAY AND PAVEMENT MARKING PLANS**

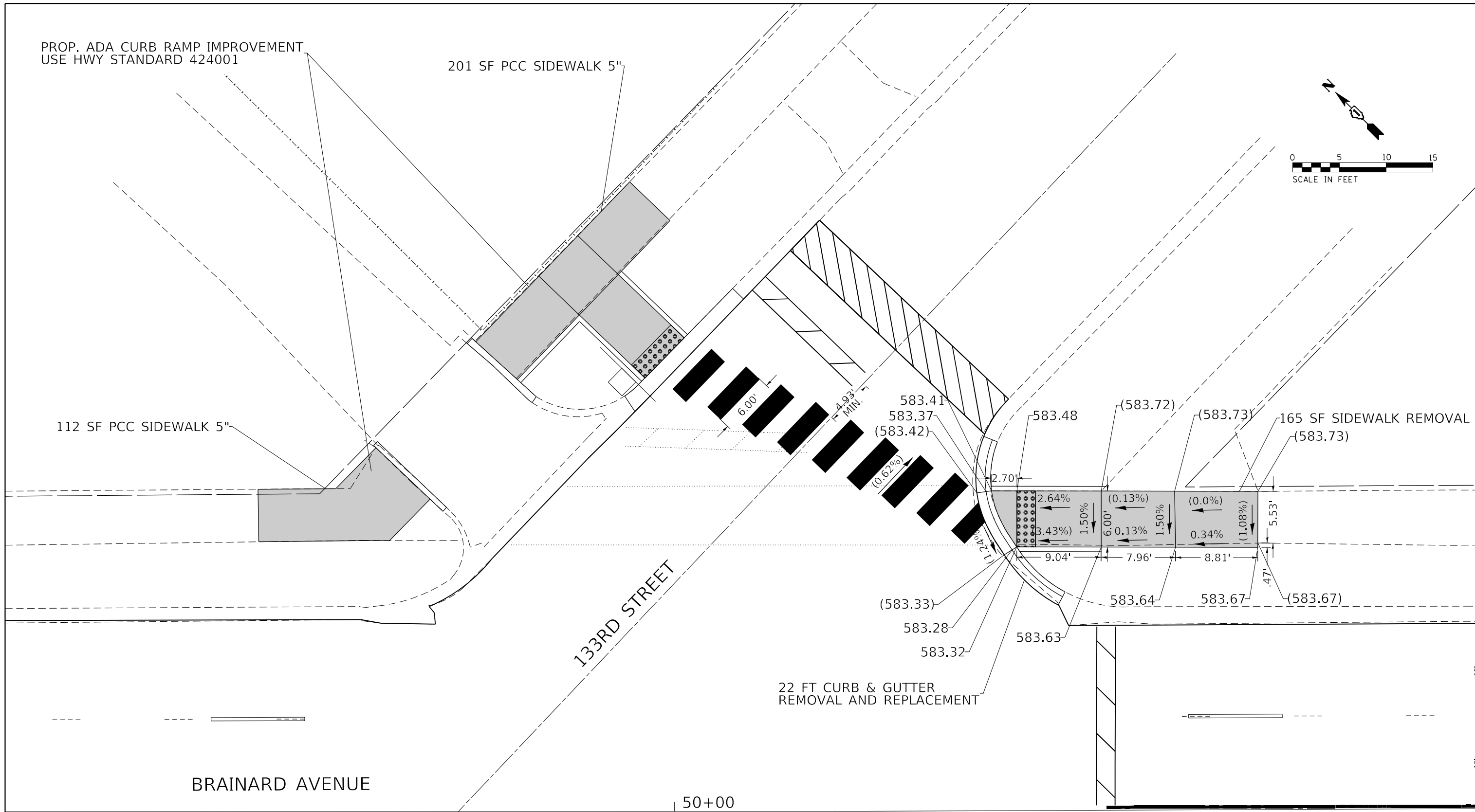
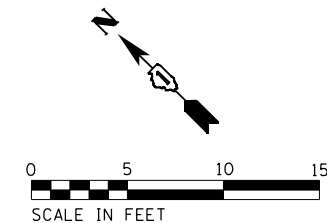
SCALE: 1"=50' SHEET 5 OF 5 SHEETS STA. 119+00.00 TO STA. 147+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3592	2021-011-R5-SR&SW	COOK	57	15
CONTRACT NO. 62N72				
ILLINOIS FED. AID PROJECT				

PROP. ADA CURB RAMP IMPROVEMENT  
USE HWY STANDARD 424001

201 SF PCC SIDEWALK 5"

112 SF PCC SIDEWALK 5"



**LEGEND**

xx.xx'

EXISTING LENGTH

==

PROPOSED SIDE CURB

( )

EXISTING ELEVATION/SLOPE



PROPOSED SIDEWALK



DETECTABLE WARNINGS



SIDEWALK REMOVAL



USER NAME = kedy.estimable  
PLOT SCALE = 10.0000' / in.  
PLOT DATE = 4/25/2022

DESIGNED - AAT  
DRAWN - AAT  
CHECKED - CMP  
DATE - 3/18/2022

REVISED -  
REVISED -  
REVISED -  
REVISED -

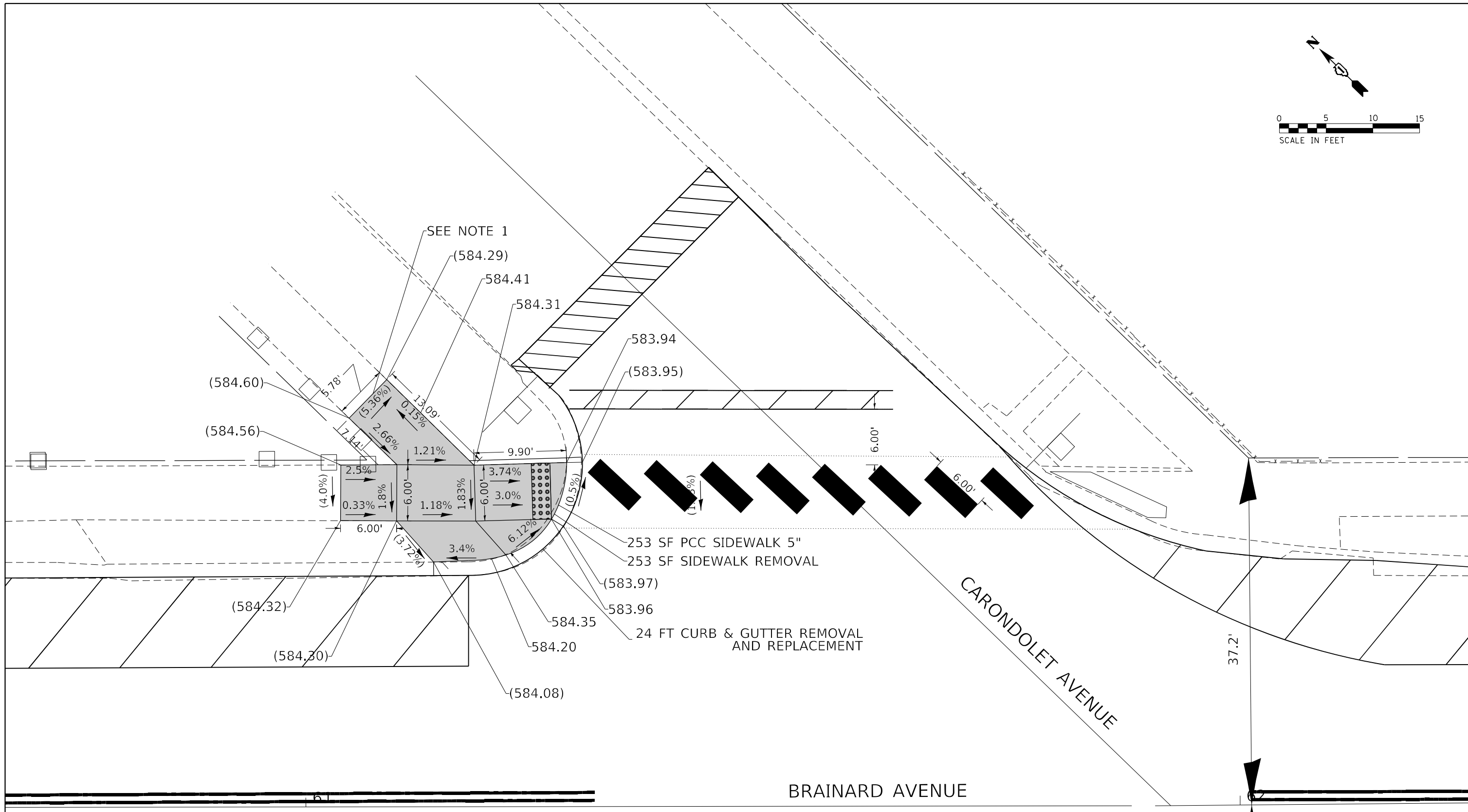
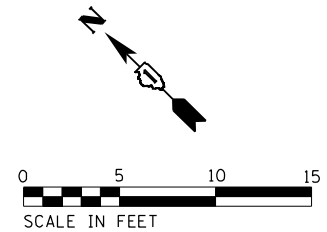
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BRAINARD AVE AT 133RD ST  
ADA RAMP DETAILS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3592	2021-011-R5-SR&SW	COOK	57	16
CONTRACT NO. 62N72				
ILLINOIS FED. AID PROJECT				

FILE NAME = P102621-shr-adds-to-1.dgn



LEGEND	
xx.xx'	EXISTING LENGTH
==	PROPOSED SIDE CURB
( )	EXISTING ELEVATION/SLOPE
[Solid Grey Box]	PROPOSED SIDEWALK
[Grid Pattern Box]	DETECTABLE WARNINGS
[Cross-hatch Pattern Box]	SIDEWALK REMOVAL

FILE NAME = P102621-shr-addded to 1\_02.dgn



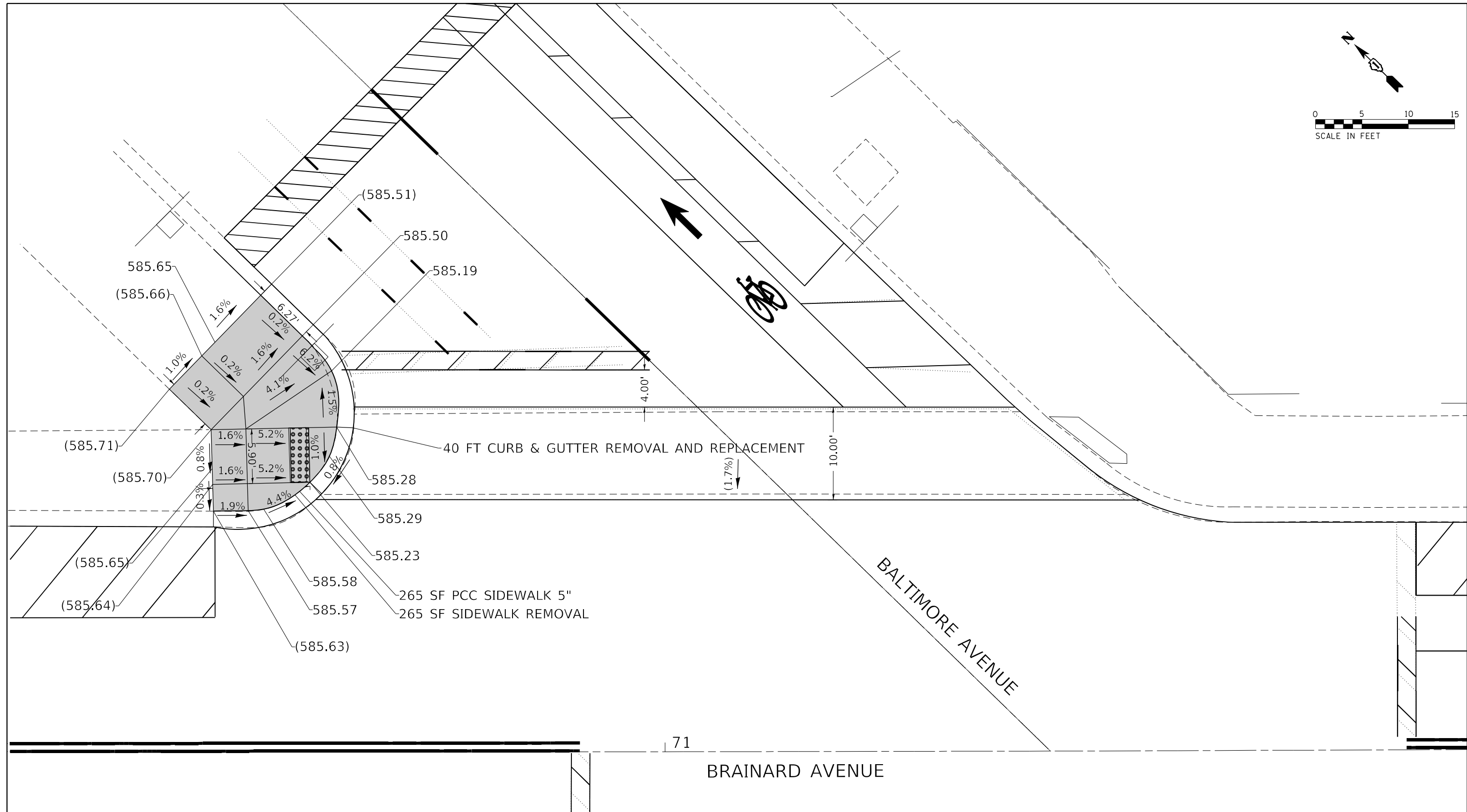
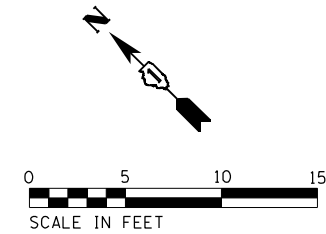
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PLOT DATE = 4/27/2022	DATE - 3/18/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BRAINARD AVE AT CARONDOLET AVE  
ADA RAMP DETAILS**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3592	2021-011-R5-SR&SW	COOK	57	17
CONTRACT NO. 62N72				
ILLINOIS FED. AID PROJECT				



LEGEND	
xx.xx'	EXISTING LENGTH
==	PROPOSED SIDE CURB
( )	EXISTING ELEVATION/SLOPE
	PROPOSED SIDEWALK
	DETECTABLE WARNINGS
	SIDEWALK REMOVAL

FILE NAME = P102621-shr-addeda-to-1\_03.dgn



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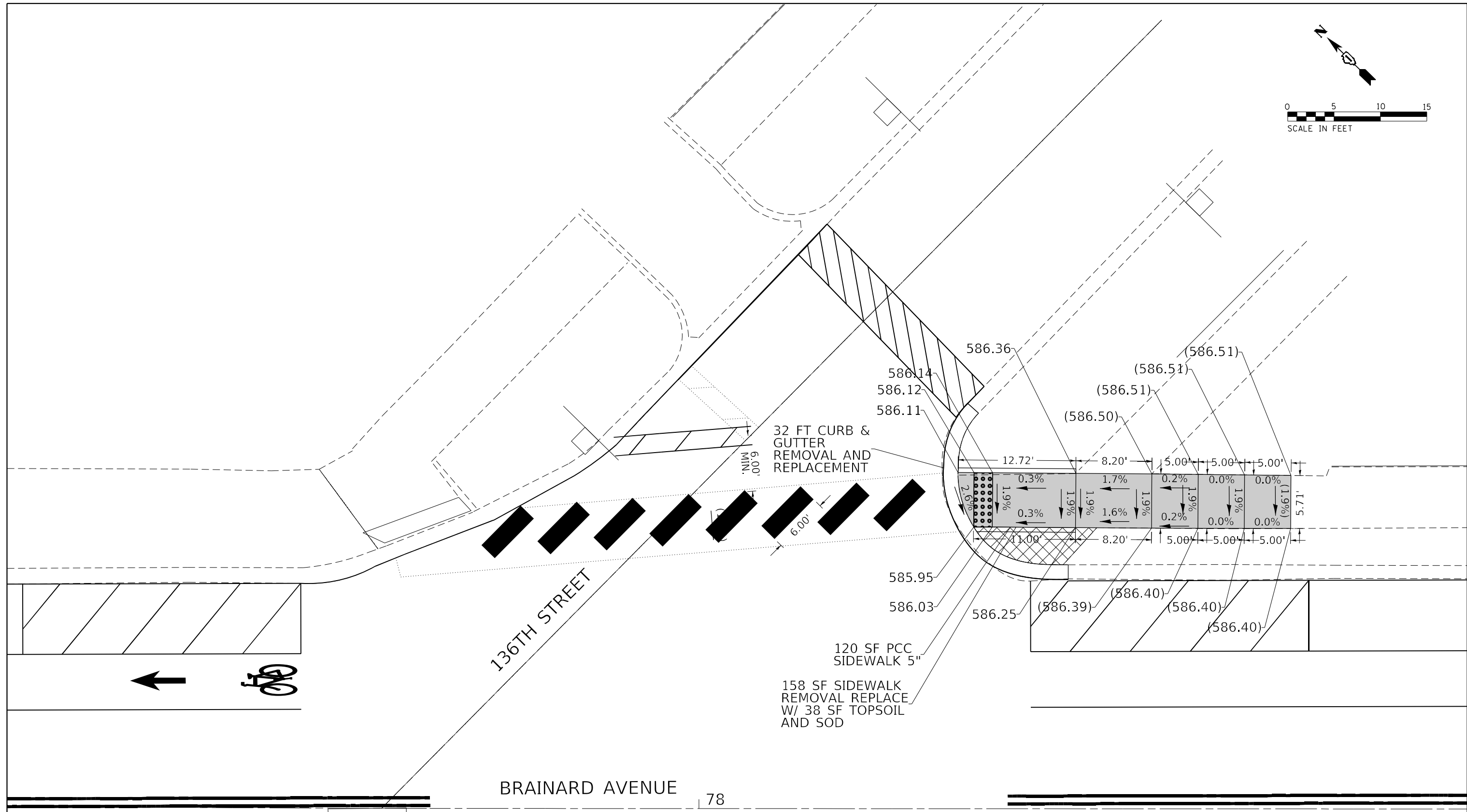
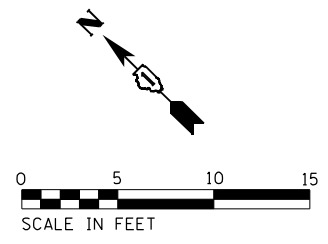
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BRAINARD AVE AT BALTIMORE AVE  
ADA RAMP DETAILS**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3592	2021-011-R5-SR&SW	COOK	57	18
CONTRACT NO. 62N72				
ILLINOIS FED. AID PROJECT				





136TH STREET

BRAINARD AVENUE 78

32 FT CURB & GUTTER REMOVAL AND REPLACEMENT

120 SF PCC SIDEWALK 5"  
158 SF SIDEWALK REMOVAL REPLACE W/ 38 SF TOPSOIL AND SOD

LEGEND	
xx.xx'	EXISTING LENGTH
==	PROPOSED SIDE CURB
( )	EXISTING ELEVATION/SLOPE
[Grey Box]	PROPOSED SIDEWALK
[Dotted Box]	DETECTABLE WARNINGS
[Cross-hatched Box]	SIDEWALK REMOVAL

FILE NAME = P102621-shr-addede-to-1\_05.dgn



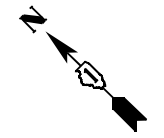
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PLOT DATE = 4/25/2022	DATE - 3/18/2022	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BRAINARD AVE AT 136TH ST  
ADA RAMP DETAILS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3592	2021-011-R5-SR&SW	COOK	57	20
CONTRACT NO. 62N72				
ILLINOIS FED. AID PROJECT				

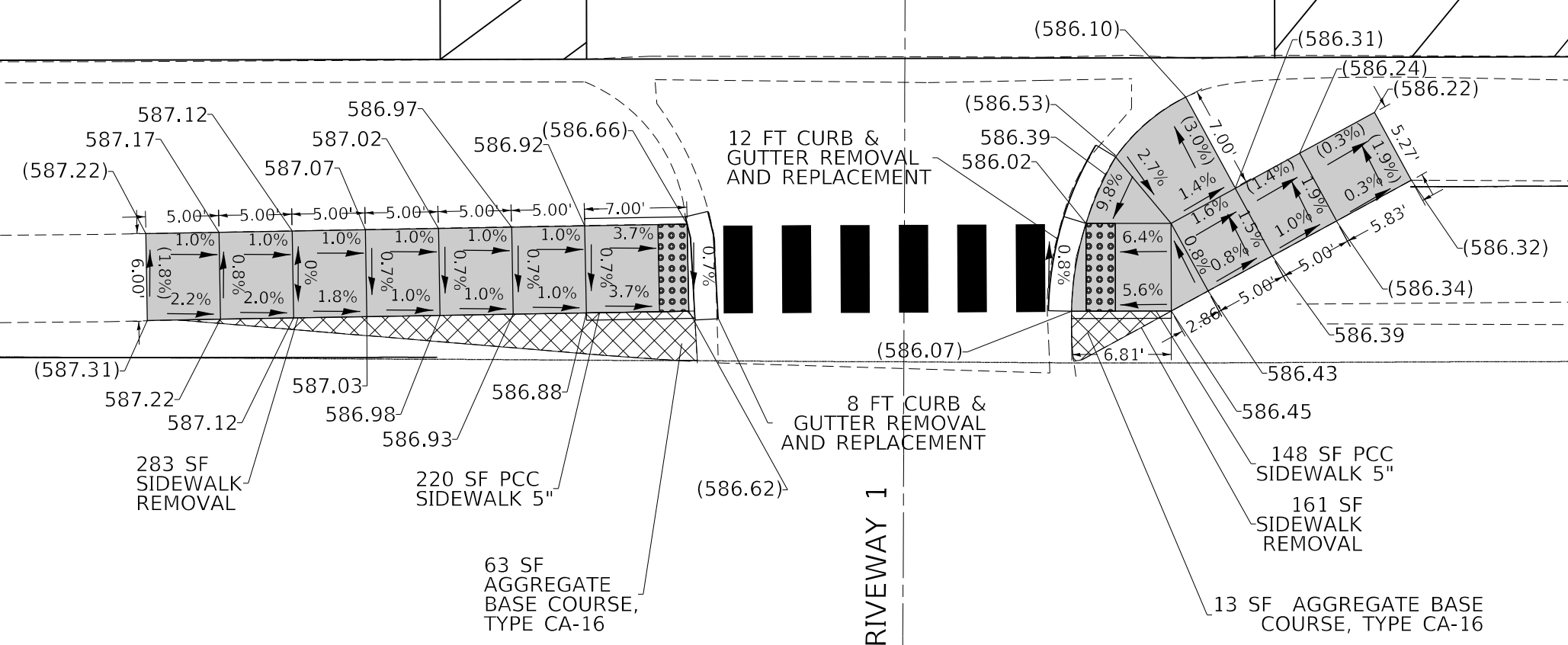


136TH STREET

BRAINARD AVENUE

77

78



METRA DRIVEWAY 1

### LEGEND

- xx.xx' EXISTING LENGTH
- PROPOSED SIDE CURB
- ( ) EXISTING ELEVATION/SLOPE
- PROPOSED SIDEWALK
- DETECTABLE WARNINGS
- SIDEWALK REMOVAL



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	DRAWN - AAT	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - CMP	REVISED -
PLOT DATE = 4/25/2022	DATE - 3/18/2022	REVISED -

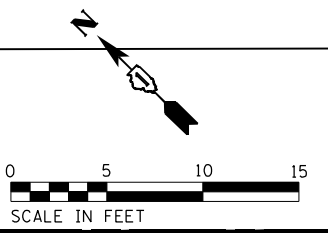
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BRAINARD AVE AT METRA DRIVEWAY 1  
ADA RAMP DETAILS

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

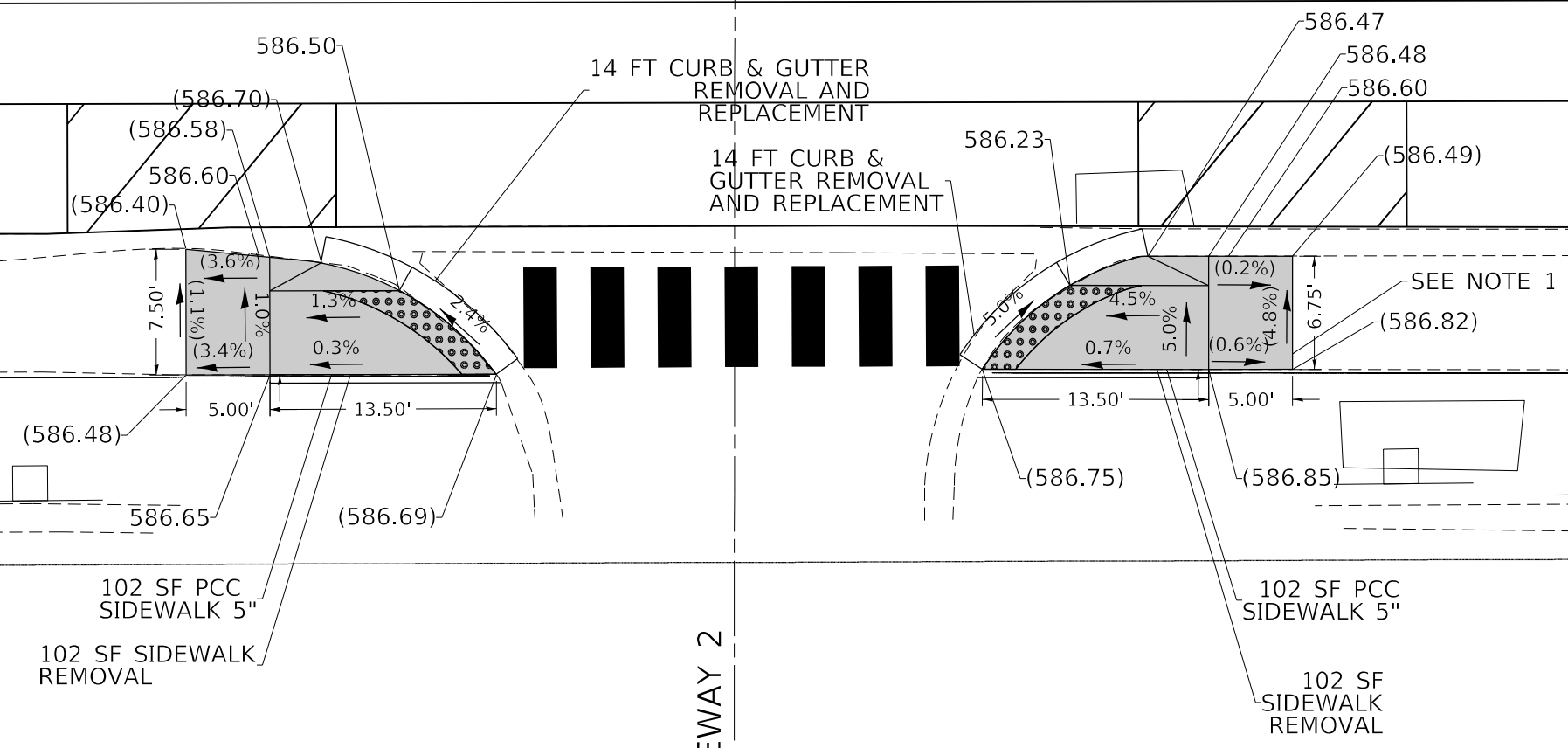
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CONTRACT NO. 62N72				
ILLINOIS FED. AID PROJECT				

FILE NAME = P102621-shr-adds-to-1\_06.dgn



BRAINARD AVENUE

82 | | 83



**LEGEND**

- xx.xx' EXISTING LENGTH
- PROPOSED SIDE CURB
- EXISTING ELEVATION/SLOPE
- PROPOSED SIDEWALK
- DETECTABLE WARNINGS
- SIDEWALK REMOVAL

NOTES:

1. EXISTING CROSSWALK CROSS SLOPE EXCEEDS CURRENT POLICY.
2. SIDEWALK IS DESIGNED TO THE MAXIMUM EXTENT PRACTICABLE (MEP).



USER NAME = kandy.estimable	DESIGNED - AAT	REVISED -
	DRAWN - AAT	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - CMP	REVISED -
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

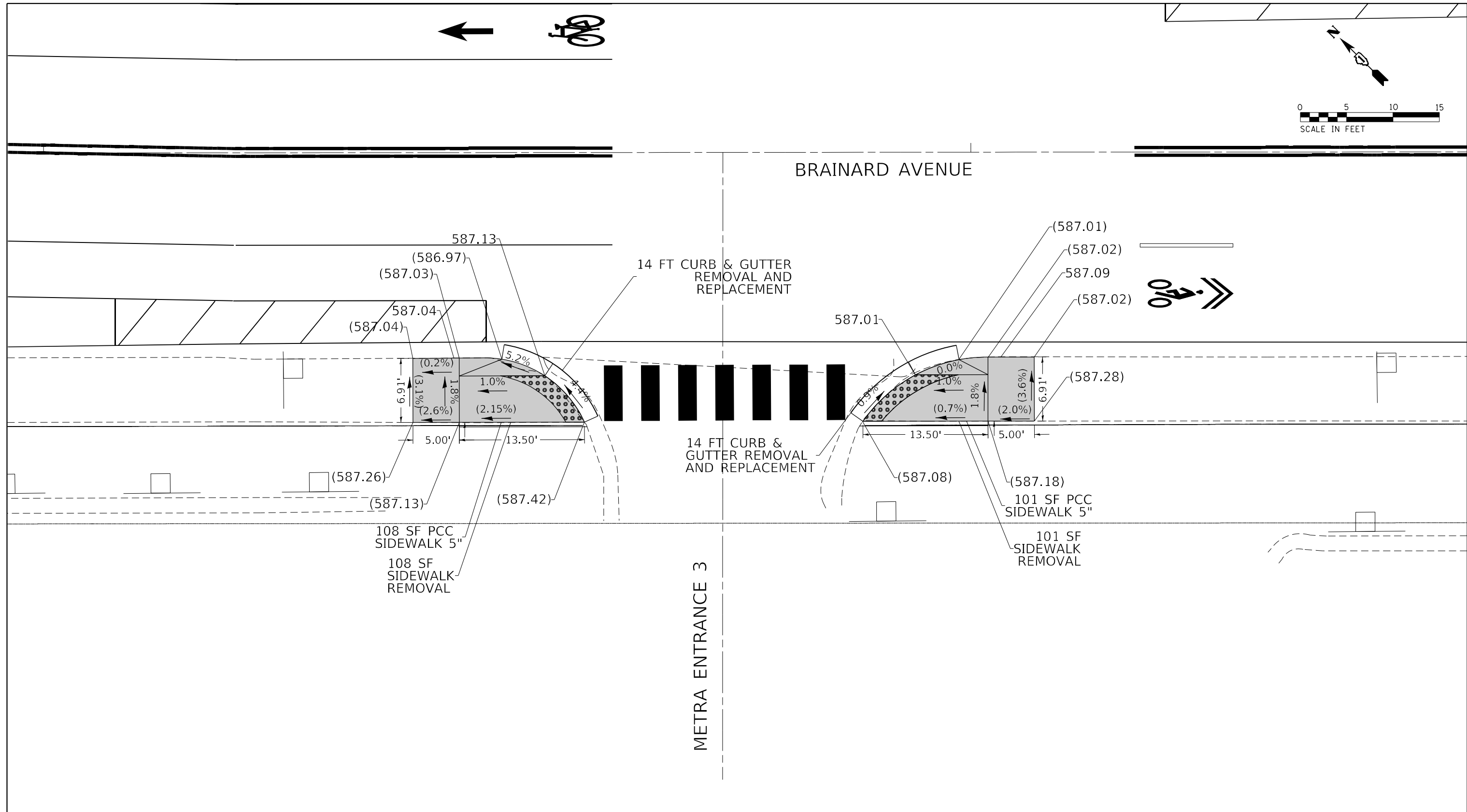
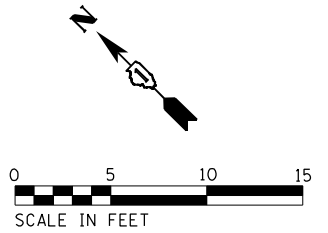
**BRAINARD AVE AT METRA ENTRANCE 2  
ADA RAMP DETAILS**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3592	2021-011-R5-SR&SW	COOK	57	22
CONTRACT NO. 62N72				
ILLINOIS FED. AID PROJECT				

FILE NAME = P102621-shr-addside.tbl.07.dgn





**LEGEND**

- xx.xx' EXISTING LENGTH
- PROPOSED SIDE CURB
- ( ) EXISTING ELEVATION/SLOPE
- PROPOSED SIDEWALK
- DETECTABLE WARNINGS
- SIDEWALK REMOVAL



USER NAME = kedy.estimable	DESIGNED - AAT	REVISED -
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PLOT DATE = 4/27/2022	DATE - 3/18/2022	REVISED -

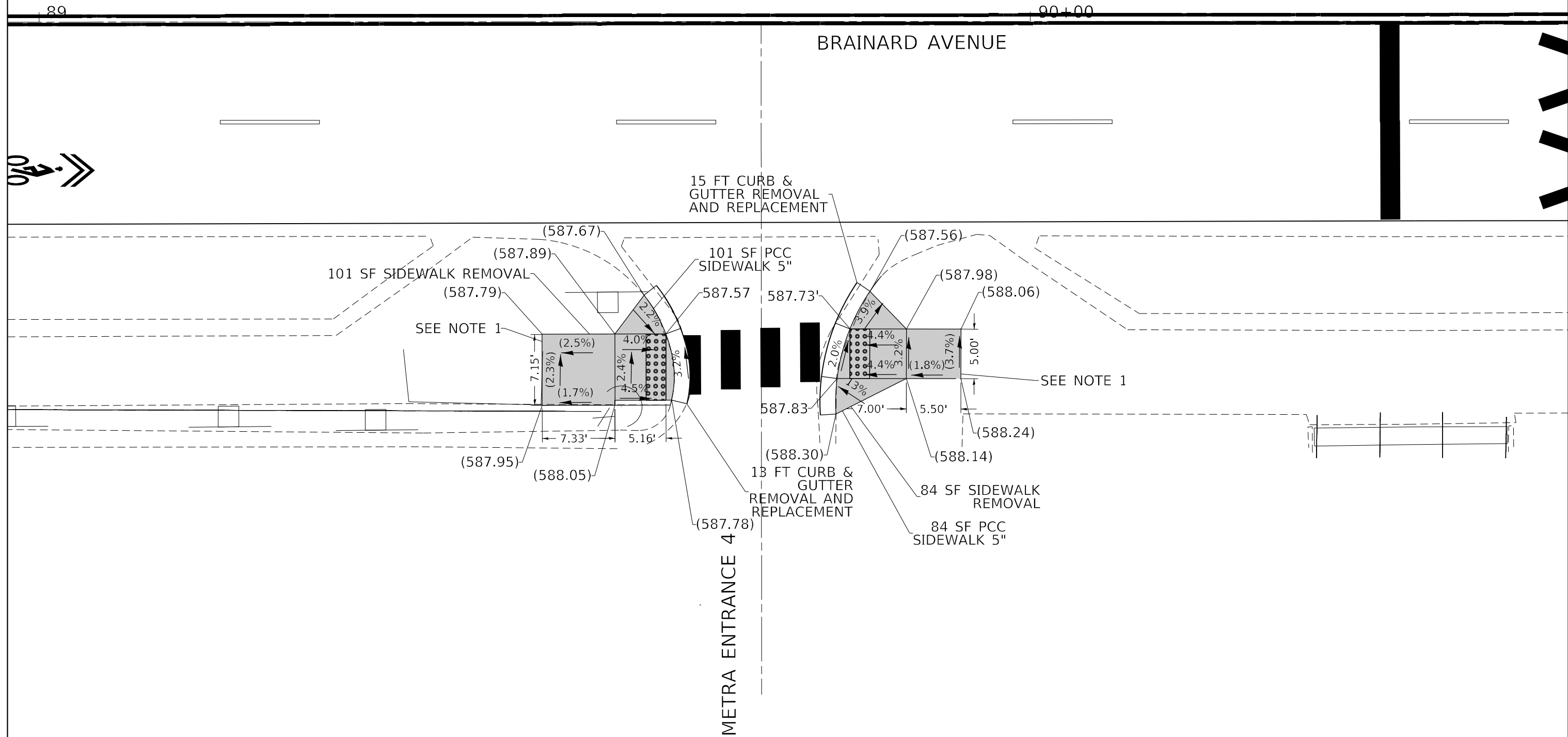
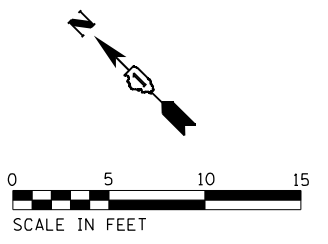
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BRAINARD AVE AT METRA ENTRANCE 3  
ADA RAMP DETAILS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3592	2021-011-R5-SR&SW	COOK	57	23
CONTRACT NO. 62N72				
ILLINOIS FED. AID PROJECT				

FILE NAME = P102621-shr-addside-to-1\_08.dgn



**LEGEND**

- xx.xx' EXISTING LENGTH
- == PROPOSED SIDE CURB
- ( ) EXISTING ELEVATION/SLOPE
- PROPOSED SIDEWALK
- ▣ DETECTABLE WARNINGS
- ▤ SIDEWALK REMOVAL

NOTES:  
 1. EXISTING CROSSWALK CROSS SLOPE EXCEEDS CURRENT POLICY.  
 2. SIDEWALK IS DESIGNED TO THE MAXIMUM EXTENT PRACTICABLE (MEP).

FILE NAME = P102621-shr-addside.tbl.dgn



USER NAME = kedy.estimable	DESIGNED - AAT	REVISED -
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PLOT SCALE = 10.0000' / in.	CHECKED - CMP	REVISED -
PLOT DATE = 3/24/2022	DATE - 3/18/2022	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BRAINARD AVE AT METRA ENTRANCE 4  
 ADA RAMP DETAILS

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

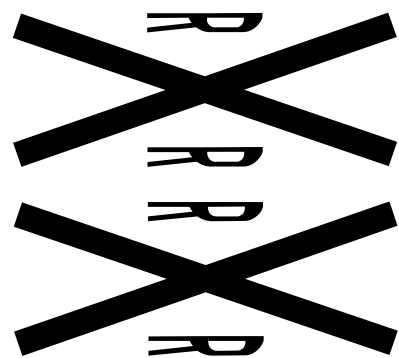
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3592	2021-011-R5-SR&SW	COOK	57	24
CONTRACT NO. 62N72				
ILLINOIS FED. AID PROJECT				

PROP. ADA CURB RAMP IMPROVEMENT  
USE HWY STANDARD 424016



BRAINARD AVENUE

91



METRA ENTRANCE 5

247 SF PCC SIDEWALK 5"

PROP. ADA CURB RAMP IMPROVEMENT  
USE HWY STANDARD 424016

208 SF PCC SIDEWALK 5"

16.84 FT CURB & GUTTER  
REMOVAL AND REPLACEMENT



**LEGEND**

xx.xx'

EXISTING LENGTH



PROPOSED SIDE CURB

( )

EXISTING ELEVATION/SLOPE



PROPOSED SIDEWALK



DETECTABLE WARNINGS



SIDEWALK REMOVAL



USER NAME = kedy.estimable  
PLOT SCALE = 10.0000' / in.  
PLOT DATE = 4/27/2022

DESIGNED - AAT  
DRAWN - AAT  
CHECKED - CMP  
DATE - 3/18/2022

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

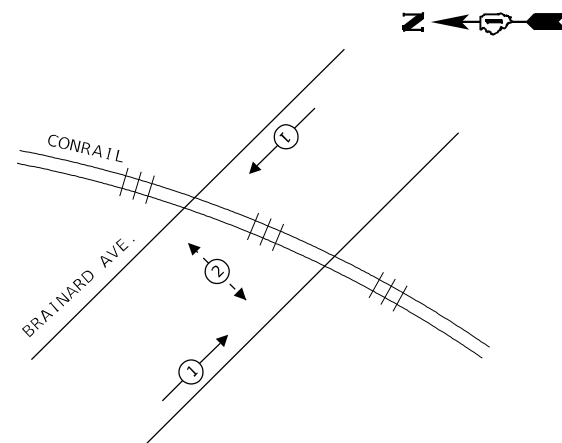
BRAINARD AVE AT METRA ENTRANCE 5  
ADA RAMP DETAILS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3592	2021-011-R5-SR&SW	COOK	57	25
CONTRACT NO. 62N72				
ILLINOIS FED. AID PROJECT				

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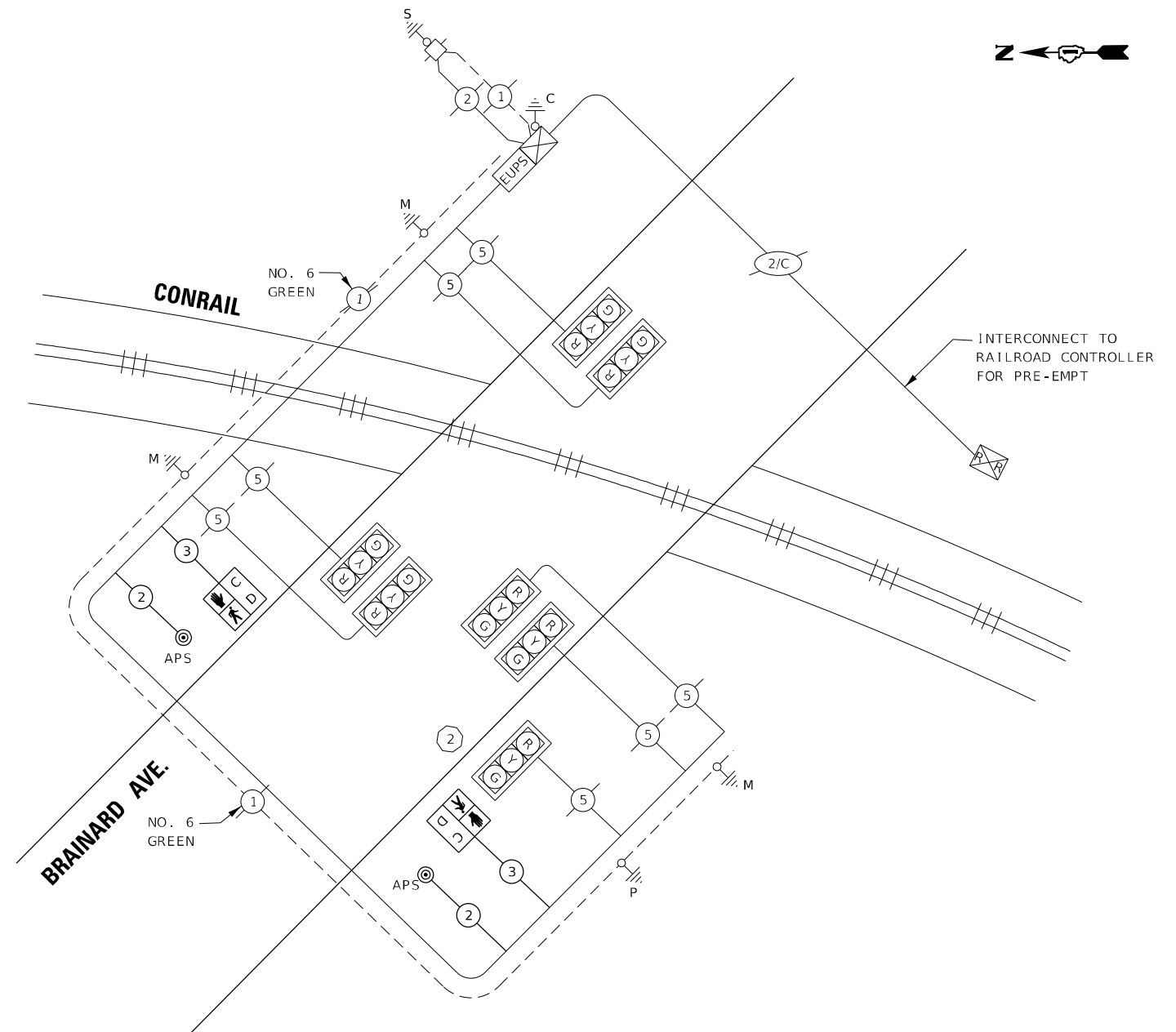
**CONTROLLER SEQUENCE**



**CONTROLLER SEQUENCE DIAGRAM**

**LEGEND:**

- ← \* → PROTECTED PHASE
- ← - \* - → PROTECTED/PERMITTED PHASE
- ← \* → PEDESTRIAN PHASE
- ← \* OL → OVERLAP



**CABLE PLAN**

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	WATTAGE INCA.	LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	7	135	17	0.50	60
(YELLOW)	7	135	25	0.25	44
(GREEN)	7	135	15	0.25	27
ARROW	-	135	12	0.10	-
PED. SIGNAL	2	90	25	1.00	50
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN	-	252	25	0.05	-
VIDEO SYSTEM	-	150	-	1.00	-
BLANK-OUT SIGN	-	-	-	-	-
FLASHER	-	-	-	-	-
STREET NAME SIGN	-	-	-	-	-
LUMINAIRE	-	-	-	-	-
TOTAL =					281

ENERGY COSTS TO:

VILLAGE OF BURNHAM  
14450 SOUTH MANISTEE AVENUE  
BURNHAM, IL 60633

ENERGY SUPPLY: CONTACT: JOE STACHO  
PHONE: (630) 424-5704  
COMPANY: COMMONWEALTH EDISON  
ACCOUNT NUMBER: ---

**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
2	EACH	ACCESSIBLE PEDESTRIAN SIGNALS

**REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT**

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 2 EACH PEDESTRIAN PUSH-BUTTON
- 2 EACH PEDESTRIAN SIGNAL HEADS

TS # 20615  
BURNHAM

FILE NAME = #FILES#



USER NAME = #USER#	DESIGNED - KE	REVISED -
PLOT SCALE = #SCALE#	DRAWN - KE	REVISED -
PLOT DATE = #DATE#	CHECKED - CMP	REVISED -
	DATE - 3/18/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BRAINARD AVE AT HEGEWISCH METRA STATION  
TRAFFIC SIGNAL CABLE PLAN, PHASE DESIGNATION  
DIAGRAM & SCHEDULE OF QUANTITIES**

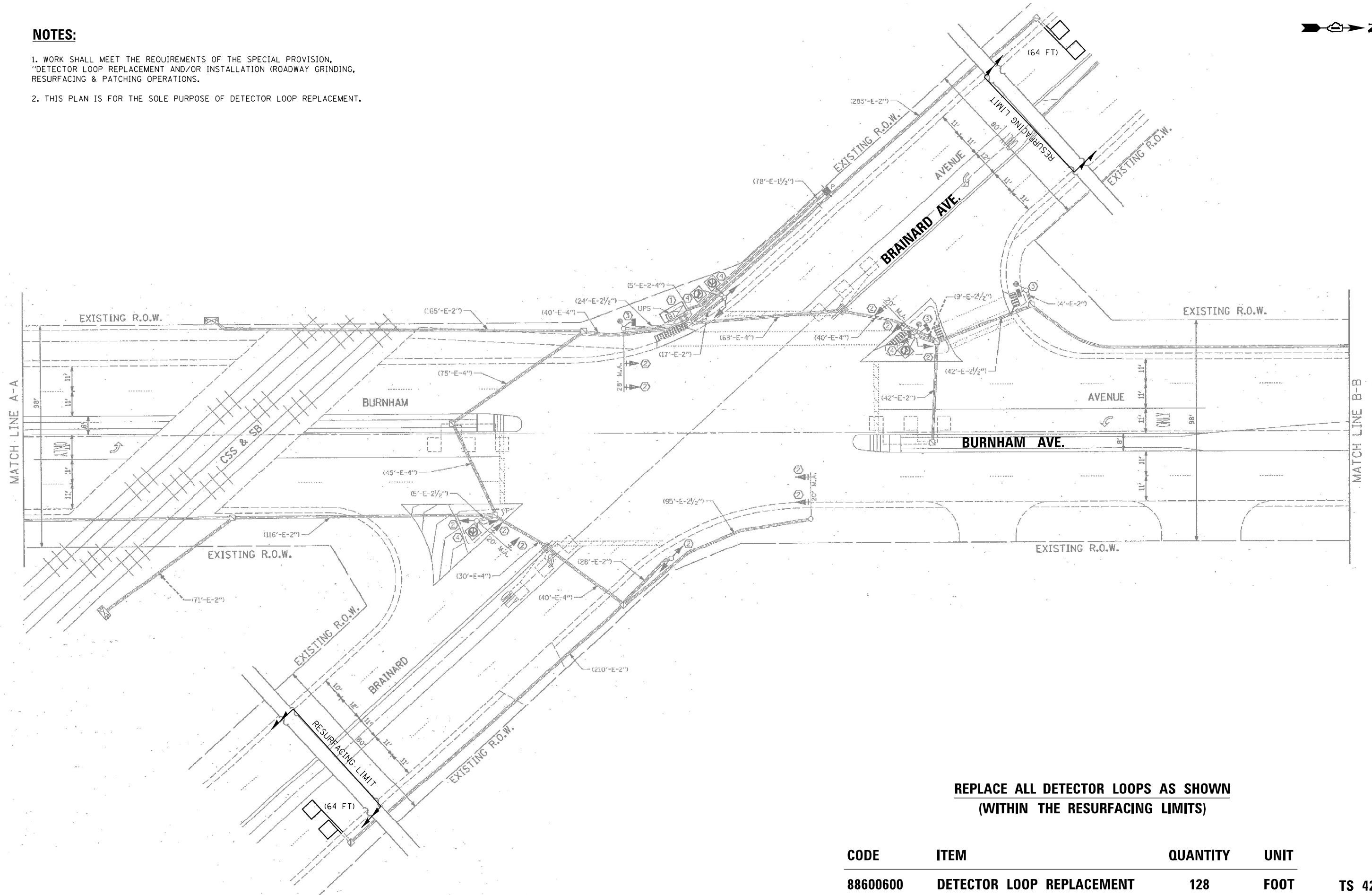
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3592	2021-011-R5-SR&SW	COOK	57	26
CONTRACT NO. 62N72				
ILLINOIS FED. AID PROJECT				



**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	128	FOOT	TS 4220

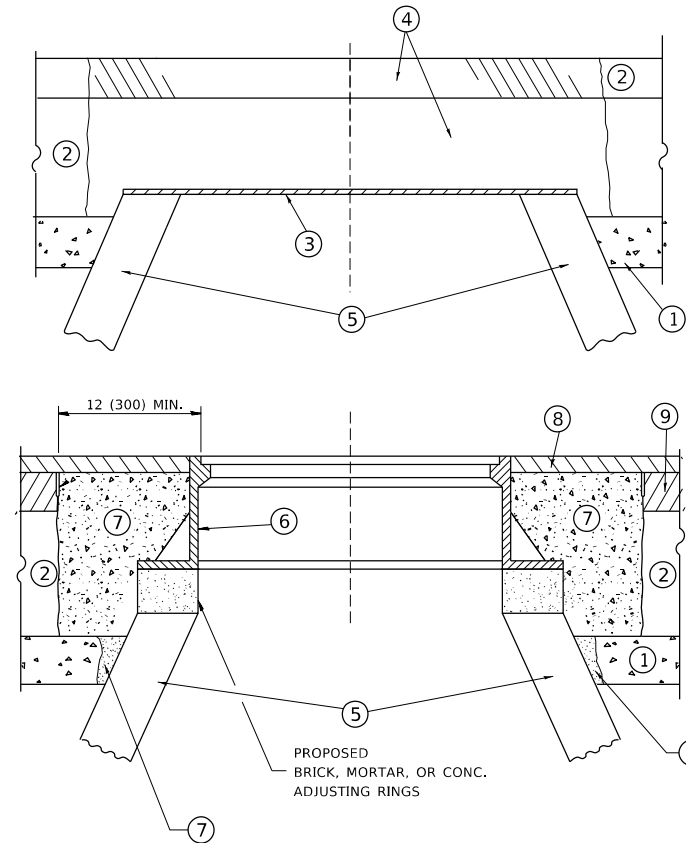
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		DRAWN - AV	REVISED -
		CHECKED - KK	REVISED -
		DATE - 3/21/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETECTOR LOOP REPLACEMENT PLAN  
BRAINARD AVE. AT BURNHAM AVE.**

F.A.P. RTE. 3592	SECTION 2021-011-RS-SR&SW	COUNTY COOK	TOTAL SHEETS 57	SHEET NO. 27
CONTRACT NO. 62N72				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.



**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 1 1/2 (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

**STAGE 2 (AFTER PAVEMENT MILLING)**

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

\* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

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

**LEGEND**

- ① SUB-BASE GRANULAR MATERIAL
- 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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	DRAWN -	REVISED - R. BORO 01-01-07
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - R. BORO 03-09-11
PLOT DATE = 3/27/2019	DATE - 10-25-94	REVISED - R. BORO 12-06-11

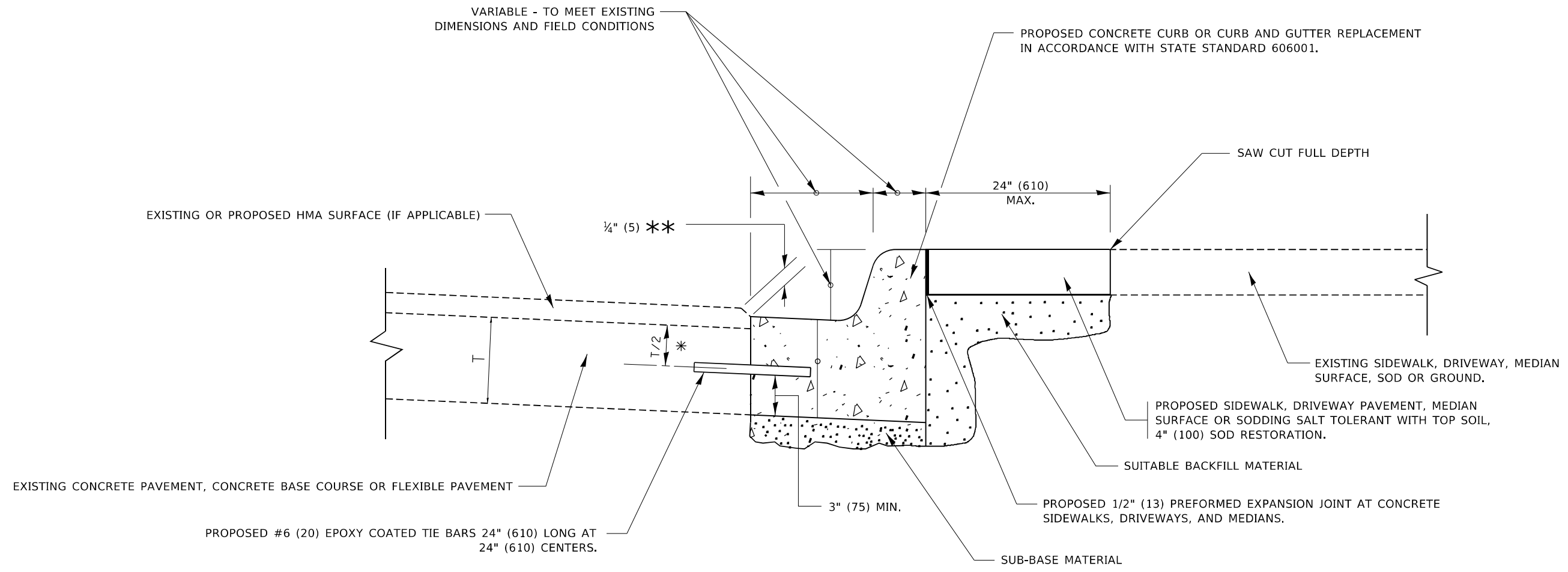
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3592	2021-011-RS-SR&SW	COOK	57	28
BD600-03 (BD-8)		CONTRACT NO. 62N72		
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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FILE: M:\MFE\_p\p\planroom\dot.illinois.gov\PI\DOT\Documents\DOT\_Offices\District\_1\Projects\Dist5\0223\A\CD\Draw\CD\Sheet3024.dgn

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PLOT DATE = 7/11/2019	DATE - 03-11-94	REVISED - K. SMITH 07-11-19

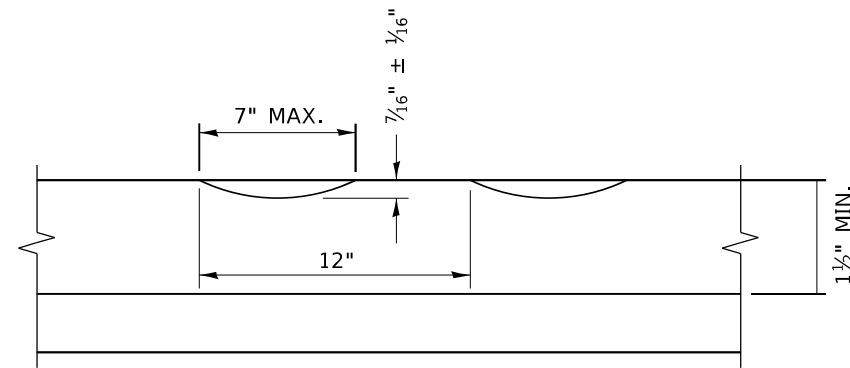
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

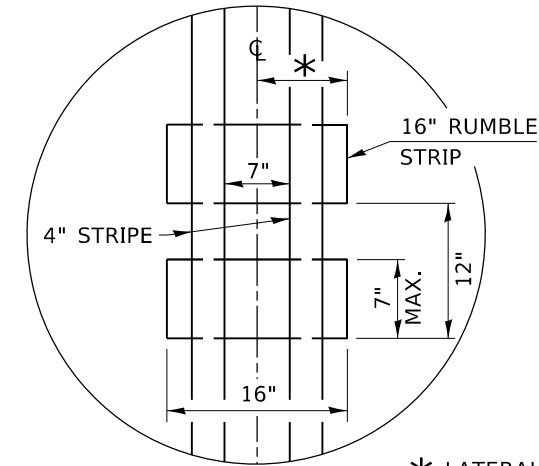
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3592	2021-011-RS-SR&SW	COOK	57	30
<b>BD600-06 (BD-24)</b>		CONTRACT NO. 62N72		
ILLINOIS FED. AID PROJECT				







**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.

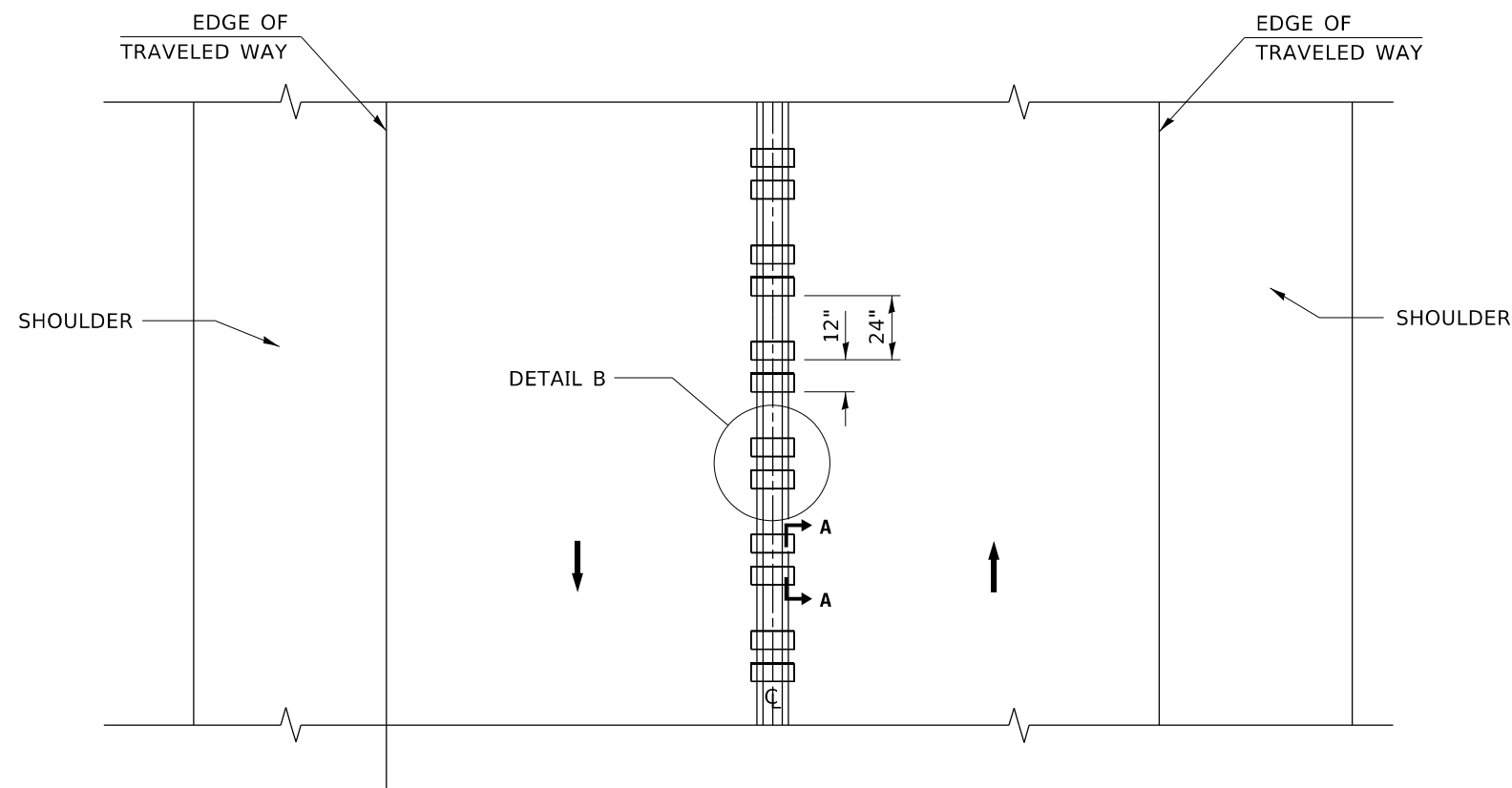
AFTER RUMBLE STRIPS ARE INSTALLED, THE PAVEMENT SURFACE SHALL BE SWEEPED CLEAN PRIOR TO THE PLACEMENT OF THE NEW PAVEMENT MARKINGS.

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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PLOT DATE = 3/27/2019	CHECKED -	REVISED -
	DATE - 08-06-2012	REVISED -

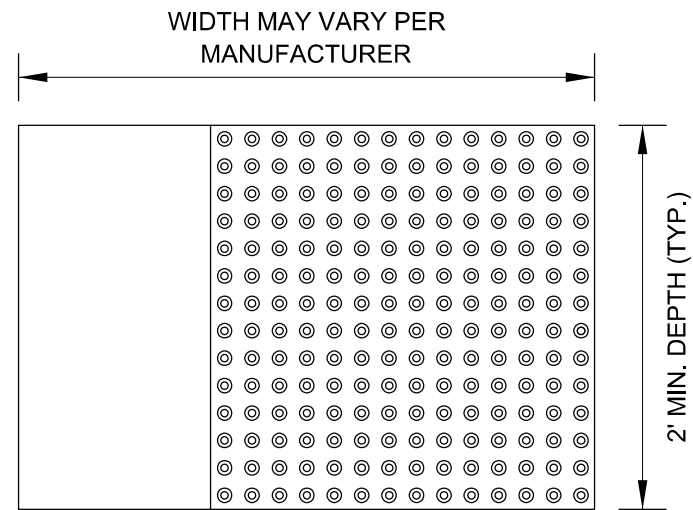
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**RUMBLE STRIPS FOR CENTERLINE, NON-FREEWAY**

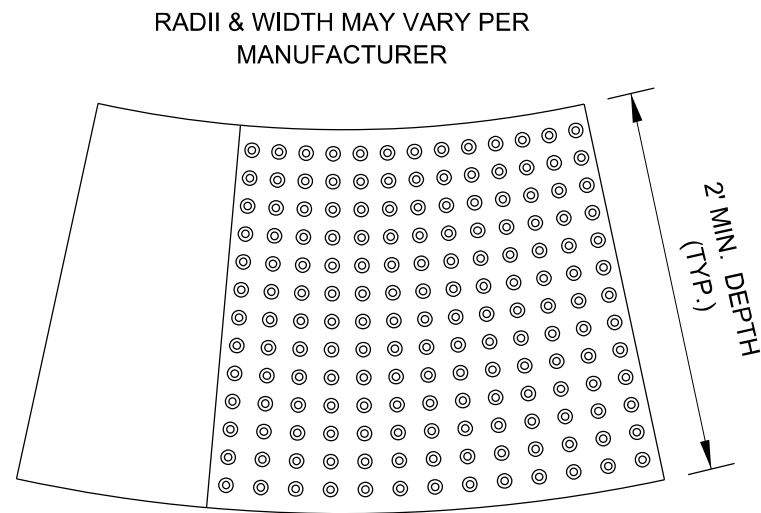
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3592	2021-011-RS-SR&SW	COOK	57	32
<b>BD 55</b>		CONTRACT NO. 62N72		
ILLINOIS FED. AID PROJECT				

## STRAIGHT DETECTABLE WARNING UNITS



## RADIAL DETECTABLE WARNING UNITS

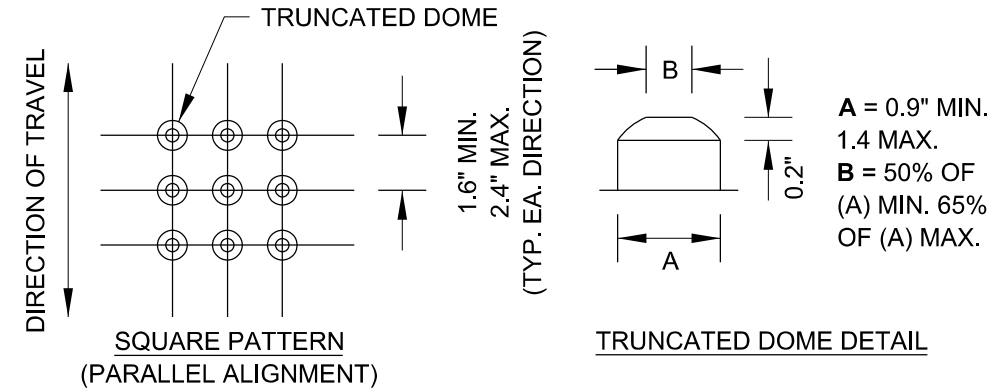


## DETECTABLE WARNING UNIT SIZES

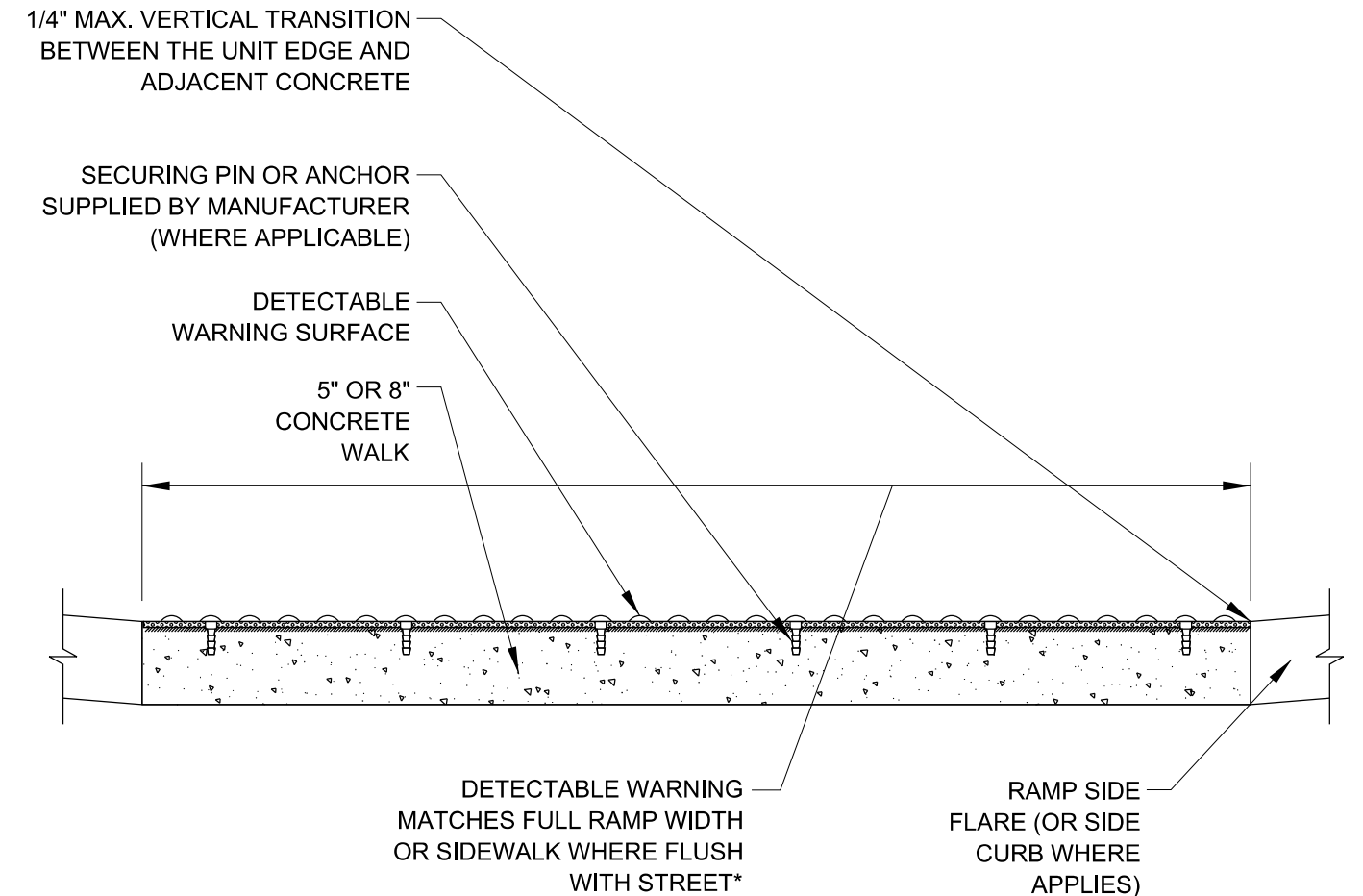
- VERIFY ALL DIMENSIONS WITH THE PRODUCT MANUFACTURER.
- IF USING RADIAL UNITS, VERIFY THAT THE CURB RADIUS MATCHES AVAILABLE UNIT RADII WITH THE PRODUCT MANUFACTURER.

### GENERAL NOTE:

THE ROWS OF DOMES IN THE DETECTABLE WARNING MATERIAL MUST BE ALIGNED WITH THE PATH OF WHEELCHAIR TRAVEL WHICH IS REQUIRED TO BE PERPENDICULAR TO THE GRADE BREAK AT THE BOTTOM OF THE RAMP TO PERMIT TRACKING BETWEEN DOME ROWS. ON BLENDED TRANSITIONS OR FLUSH TRANSITIONS, WHERE RADIAL UNITS ARE SITUATED ABOUT THE CURB RADIUS, DOME ORIENTATION IS NOT SIGNIFICANT.



## UNIT PATTERN & DOME DETAIL

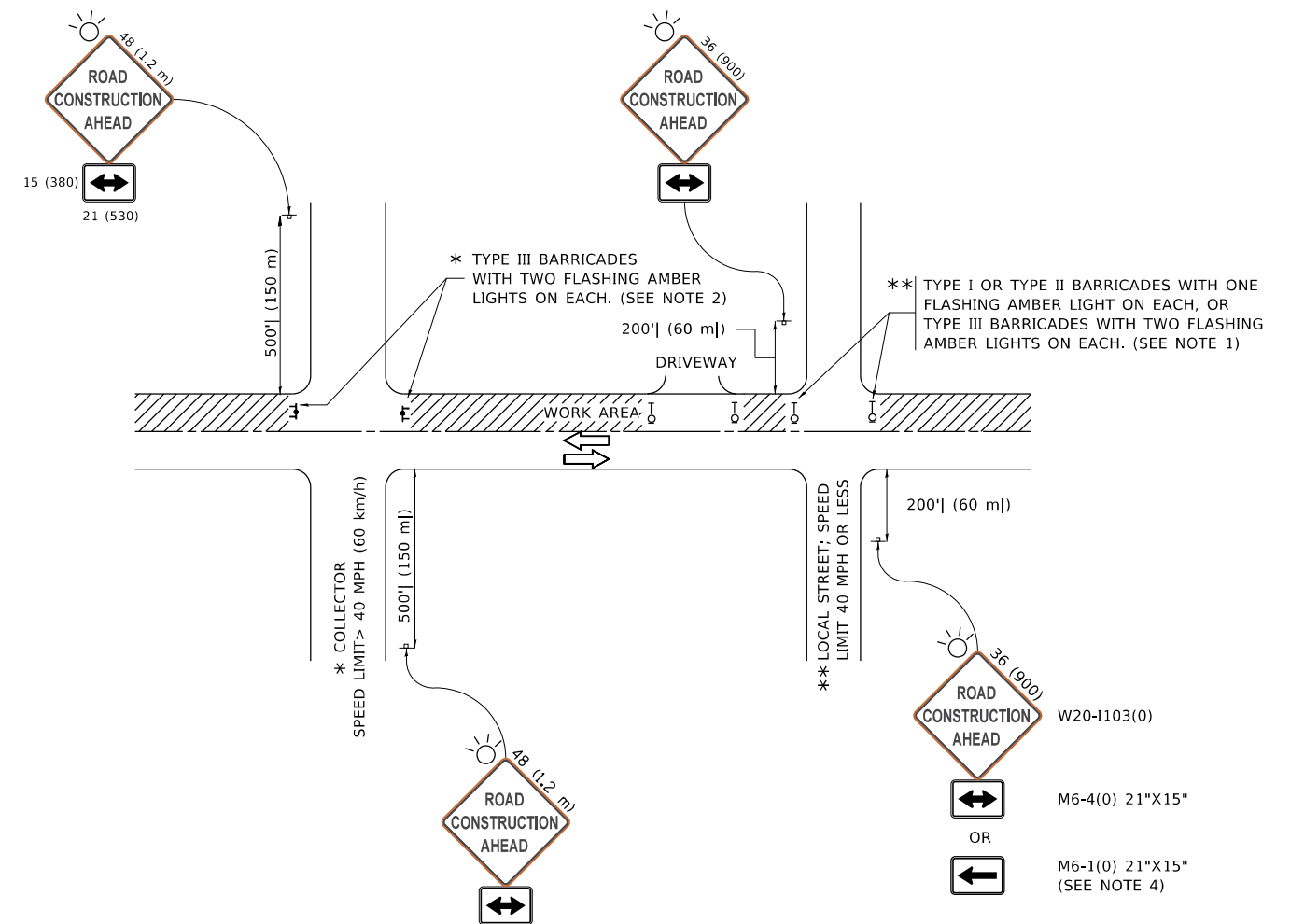


\*A BORDER OF 2 INCHES OR LESS AROUND THE DETECTABLE WARNING SURFACE IS ACCEPTABLE IF REQUIRED FOR PROPER INSTALLATION OF THE DETECTABLE WARNING SURFACE PRODUCT

## DETECTABLE WARNING UNIT SECTION

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PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -		SCALE: NONE	SHEET 1	OF 1 SHEETS	STA.	TO STA.	<b>BD 58</b>		
PLOT DATE = 10/8/2019	DATE - 06-20-2017	REVISED -		ILLINOIS FED. AID PROJECT							
CONTRACT NO. 62N72											



**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),
 

WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE 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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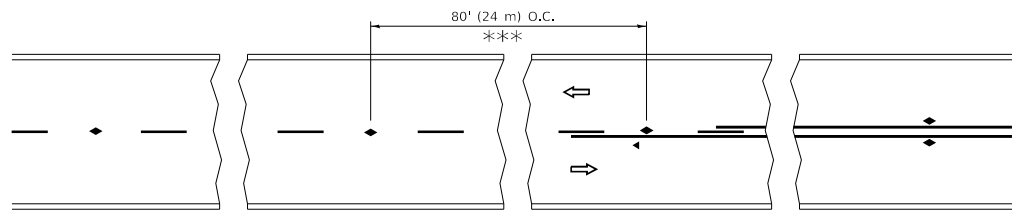
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PLOT DATE = 3/4/2019	DATE - 06-89	REVISED - A. SCHUETZE 07-01-13
		REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

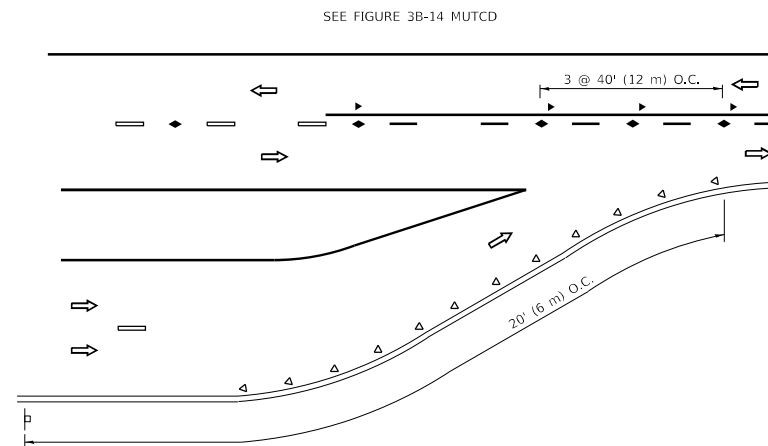
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F.A.U. RTL.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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<b>TC-10</b>			CONTRACT NO. 62N72	
ILLINOIS FED. AID PROJECT				

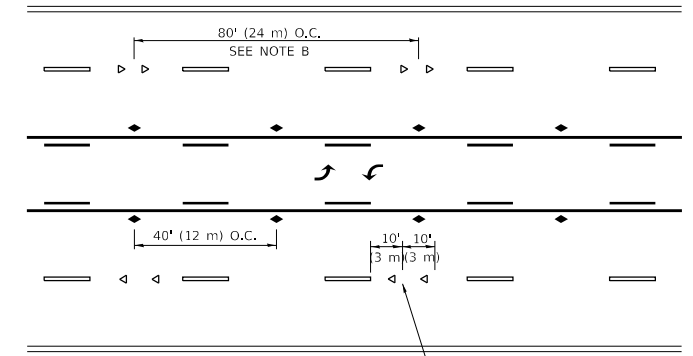


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

**TWO-LANE/TWO-WAY**

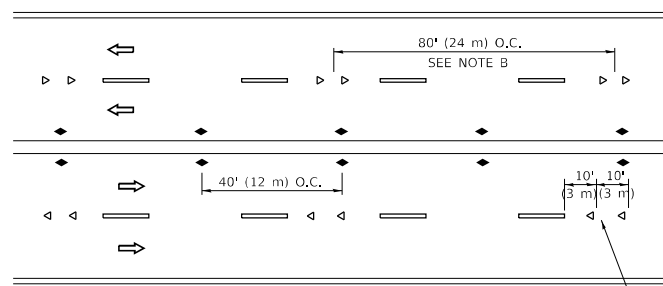


**LANE REDUCTION TRANSITION**



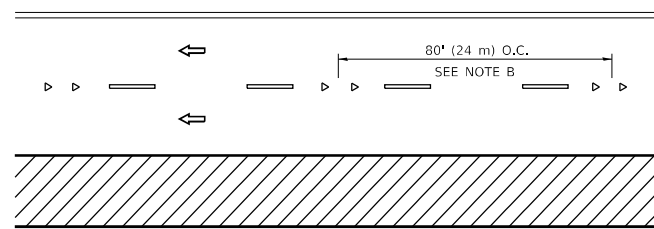
**TWO-WAY LEFT TURN**

SEE NOTE A



**MULTI-LANE/UNDIVIDED**

SEE NOTE A



**MULTI-LANE/DIVIDED**

SEE NOTE A

**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**

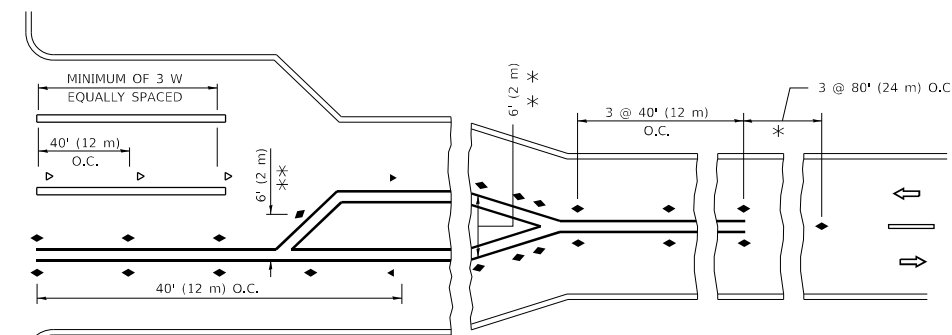
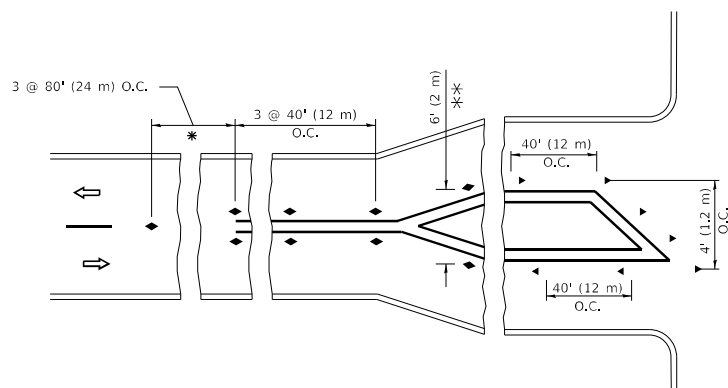
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

**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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	DRAWN -	REVISED - T. RAMMACHER 01-06-00
PLOT SCALE = 50,0000 ' / in.	CHECKED -	REVISED - C. JUCIUS 09-09-09
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

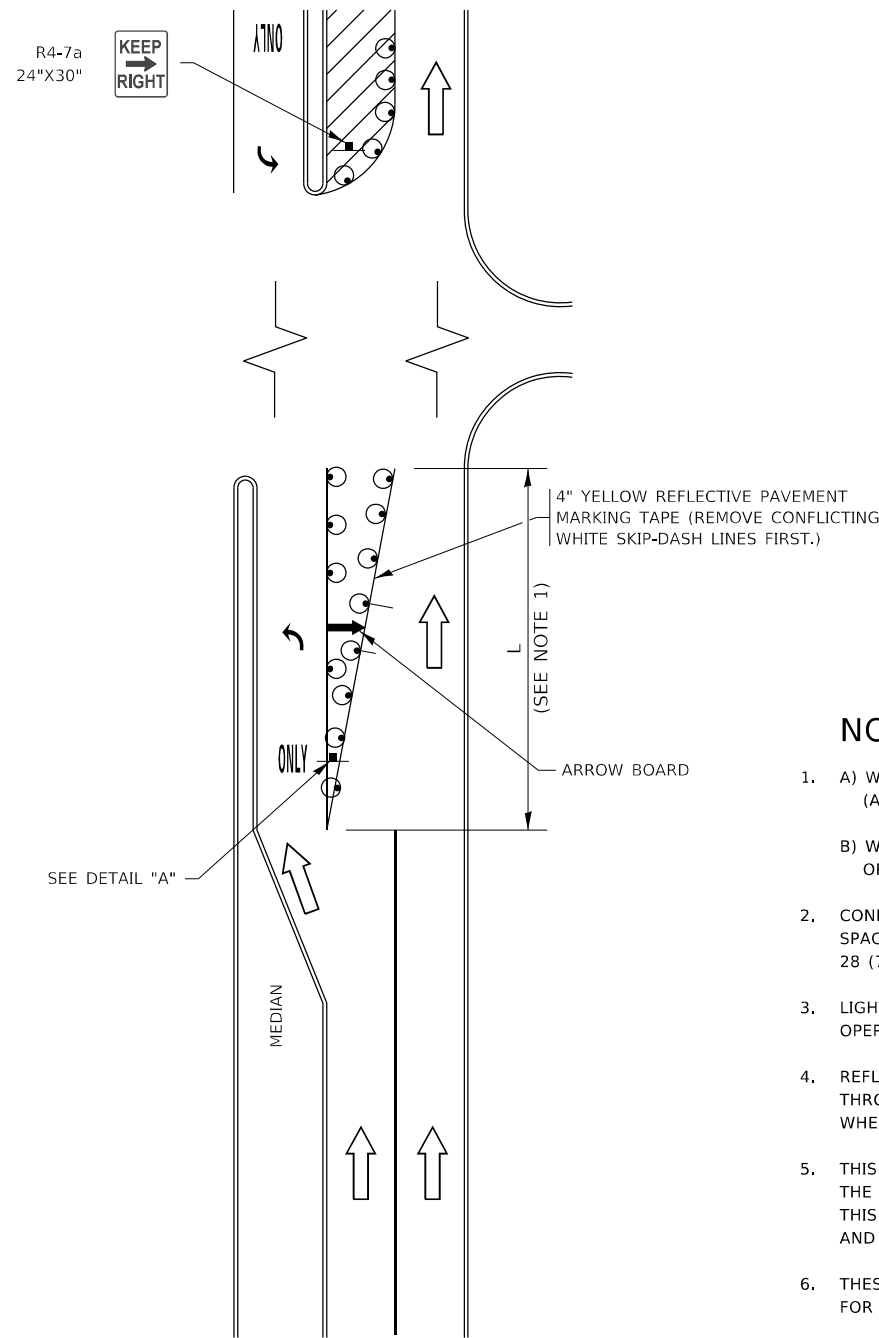
**TYPICAL APPLICATIONS  
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-11			CONTRACT NO. 62N72	
ILLINOIS		FED. AID PROJECT		

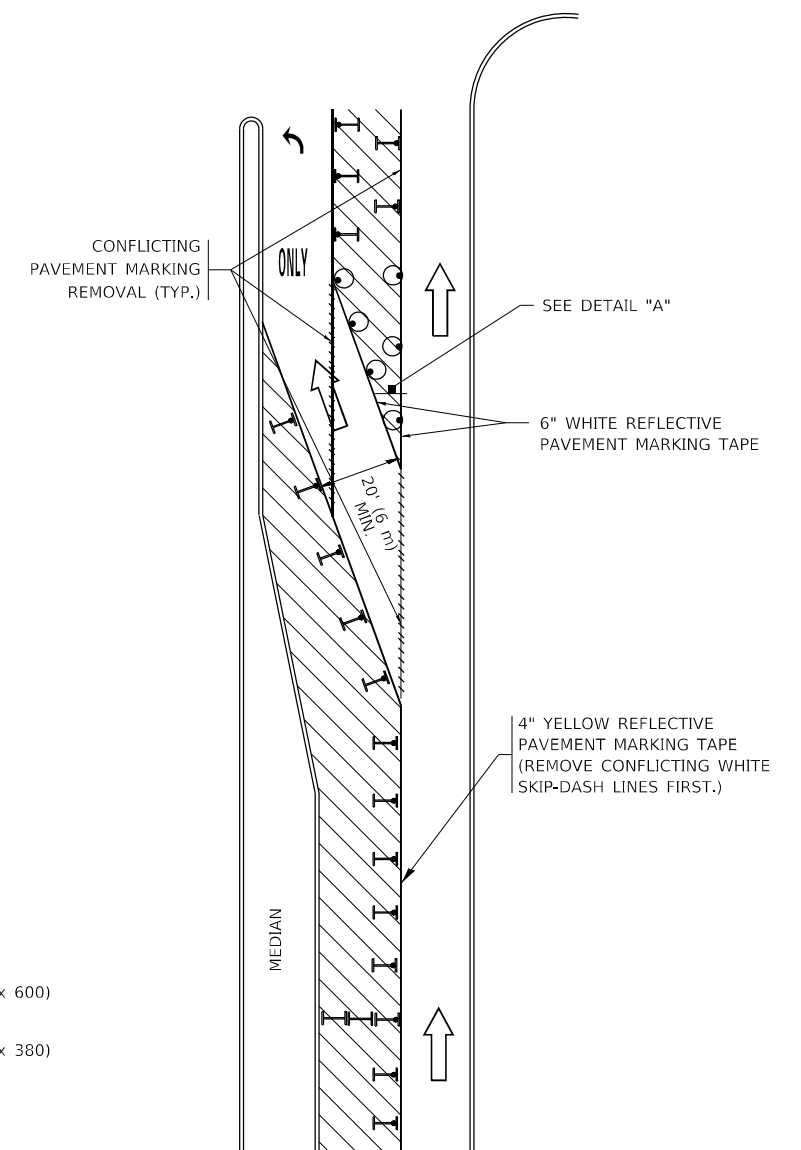


# TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER



**FIGURE 1**

# TURN BAY ENTRANCE WITHIN A LANE CLOSURE



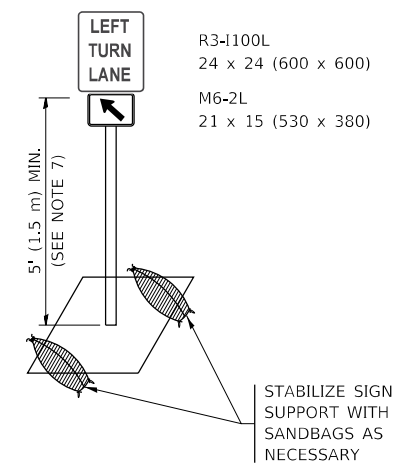
**FIGURE 2**

### LEGEND

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

### NOTES:

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



**DETAIL A**

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

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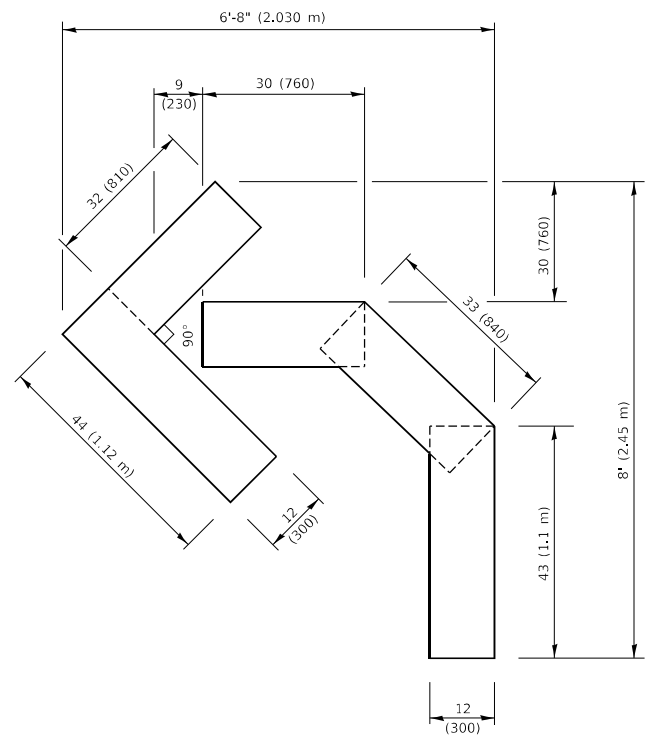
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PLOT SCALE = 50.0000 ' / in.	CHECKED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16
PLOT DATE = 3/4/2019	DATE - T. RAMMACHER 01-06-00	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

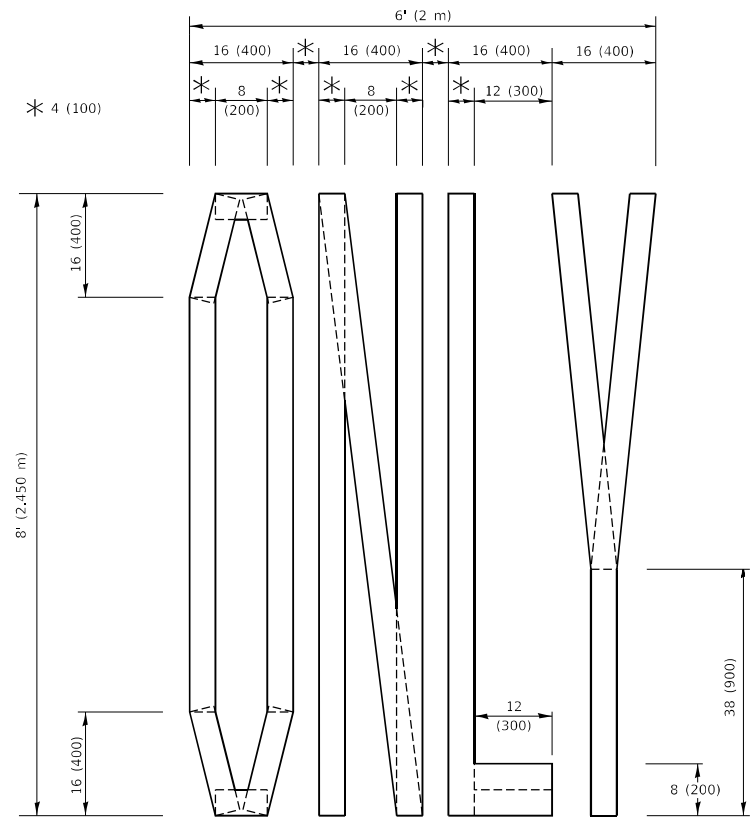
**TRAFFIC CONTROL AND PROTECTION AT TURN BAYS  
(TO REMAIN OPEN TO TRAFFIC)**

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

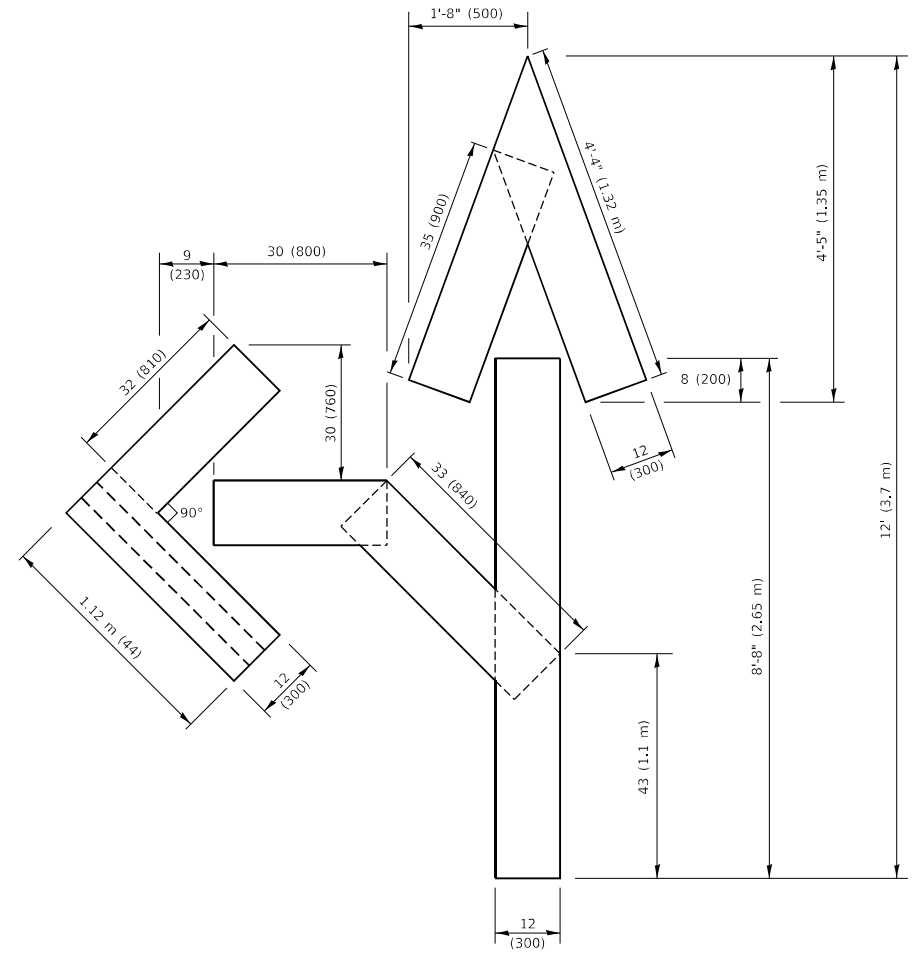
F.A.U. RTE. 3592	SECTION 2021-011-RS-SR&SW	COUNTY COOK	TOTAL SHEETS 57	SHEET NO. 37
TC-14		CONTRACT NO. 62N72		
ILLINOIS FED. AID PROJECT				



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

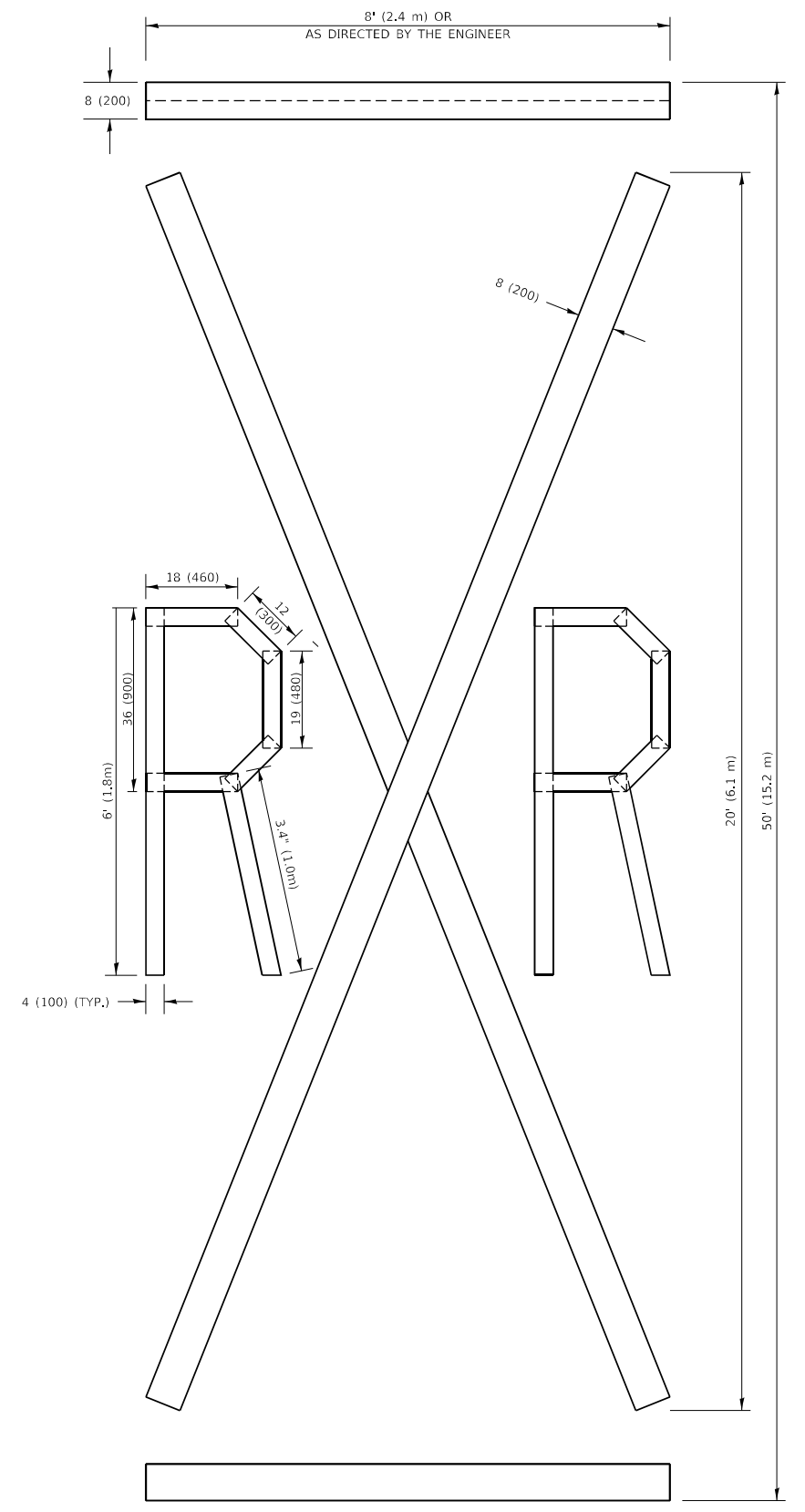


**QUANTITY**  
 4 (100) LINE = 64.1 ft. (19.5 m)  
 21.4 sq. ft. (1.99 sq. m)



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

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



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

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

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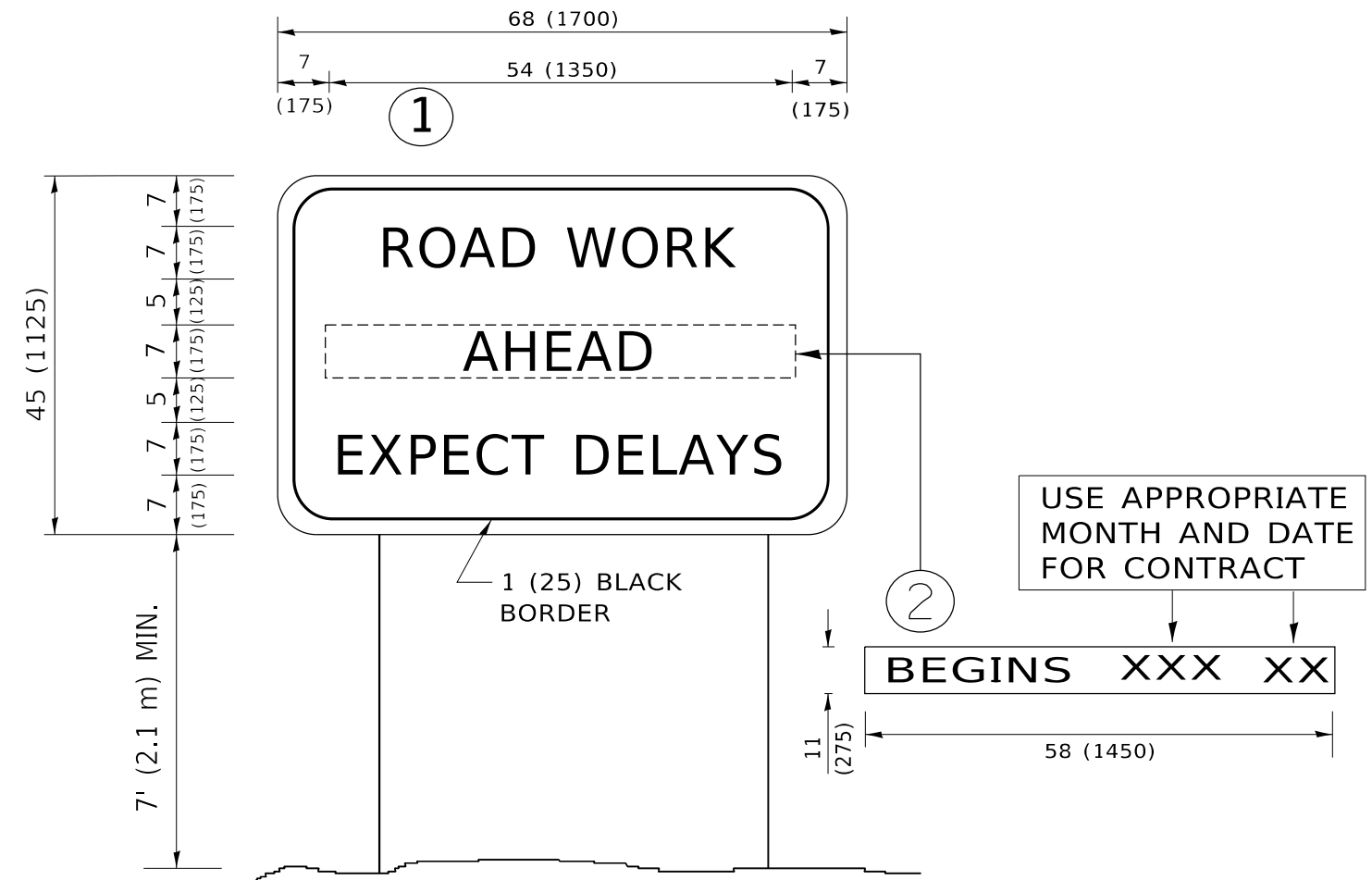
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3592	2021-011-RS-SR&SW	COOK	57	38
<b>TC-16</b>			CONTRACT NO. 62N72	
ILLINOIS FED. AID PROJECT				





**NOTES:**

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

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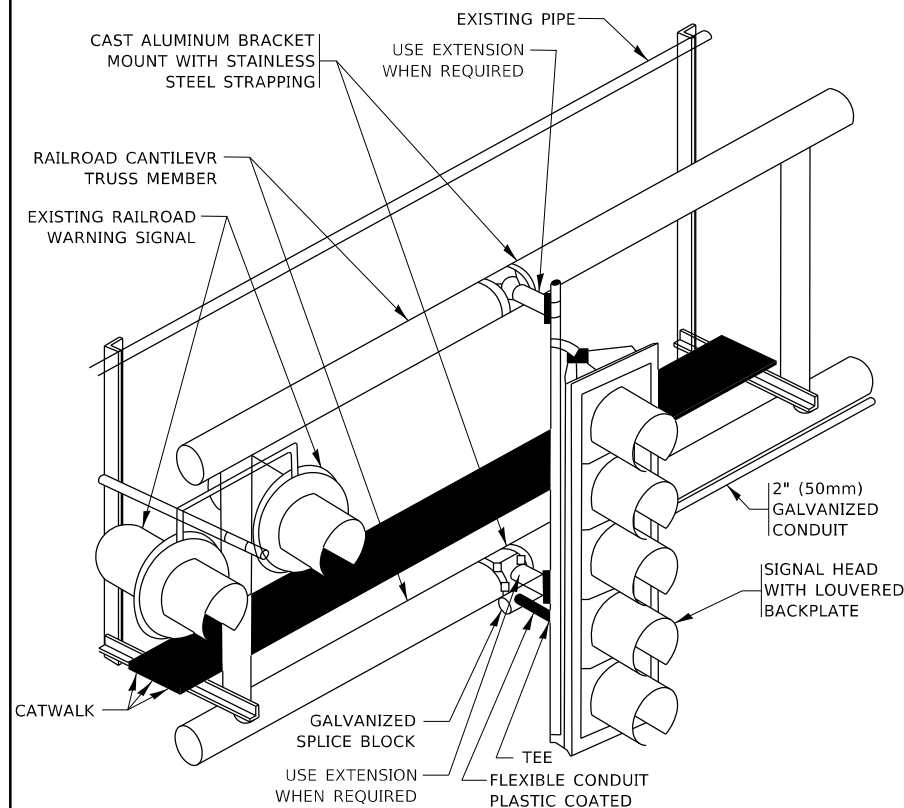
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD  
INFORMATION SIGN**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3592	2021-011-RS-SR&SW	COOK	57	39
<b>TC-22</b>			CONTRACT NO. 62N72	
ILLINOIS FED. AID PROJECT				

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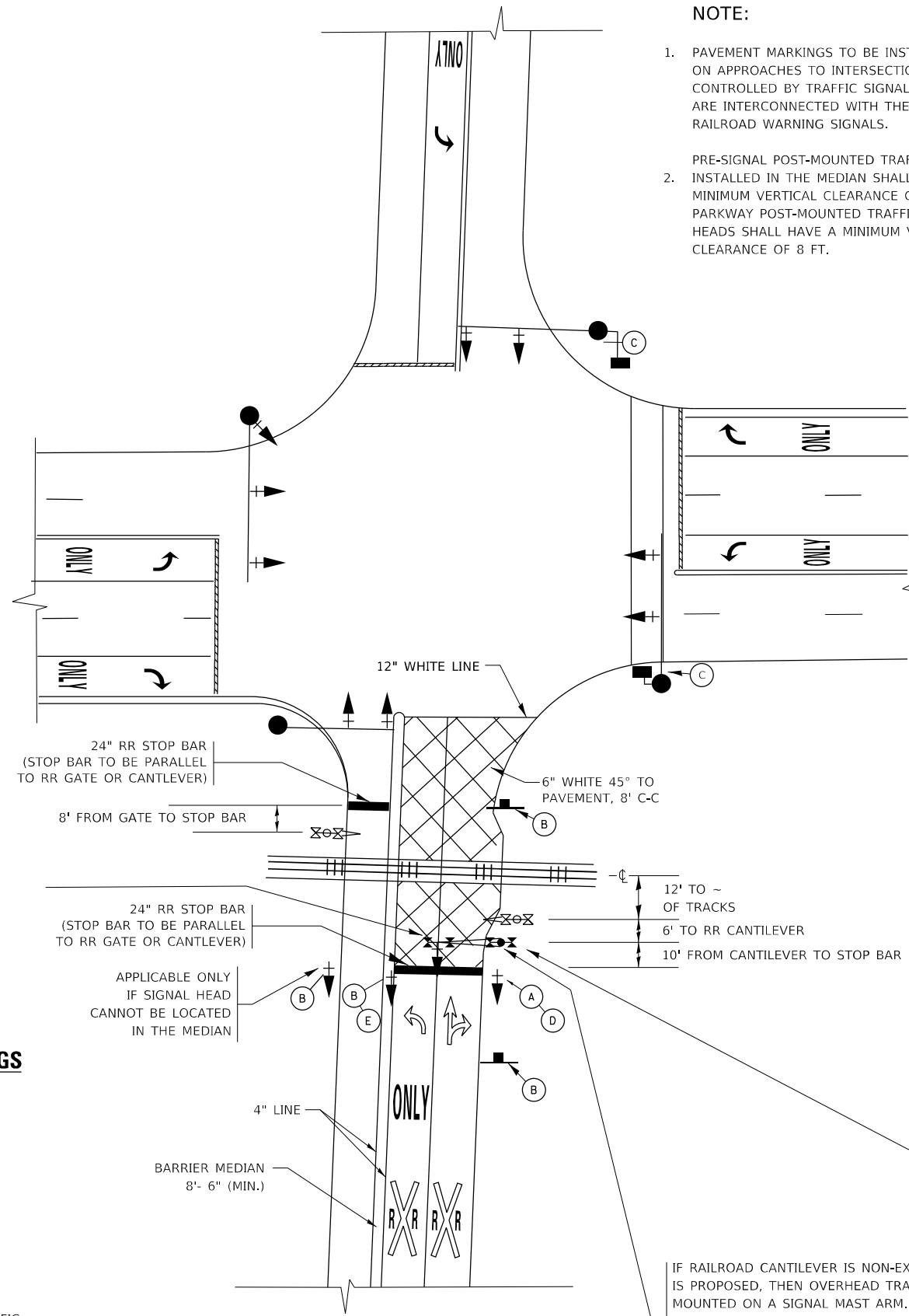
**RAILROAD CANTILEVER SIGNAL HEAD MOUNTING**  
 USE NON-CONDUCTIVE SPACERS BETWEEN THE TRAFFIC SIGNAL EQUIPMENT AND THE RAILROAD CANTILEVER TO PREVENT DISSIMILAR METAL CORROSION  
 N.T.S.

**SIGNING AND PAVEMENT MARKING AT RAILROAD CROSSINGS**

SIGNING AND PAVEMENT MARKING TRAFFIC CONTROL STANDARD (TC-23) HAS BEEN DEVELOPED IN CONSULTATION WITH THE ILLINOIS COMMERCE COMMISSION AND THE U.S. DEPARTMENT OF TRANSPORTATION'S GRADE CROSSING SAFETY TASK FORCE. THIS STANDARD PROVIDES INFORMATION ON UPDATES TO THE PAVEMENT MARKING AND SIGNING DETAILS IN ORDER TO INCORPORATE CHANGES ADOPTED IN THE 2009 NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICE (MUTCD). THESE NEW DETAILS HAVE BEEN STUDIED AND TESTED BY THE DEPARTMENT AND ACCEPTED BY THE ILLINOIS COMMERCE COMMISSION.

THIS APPLIES TO PROJECTS WHICH INCLUDE RAILROAD INTERCONNECTED TRAFFIC SIGNALS, WITH OR WITHOUT PRE-SIGNALS. THIS STANDARD ALSO APPLIES TO NON-SIGNALIZED INTERSECTIONS THAT ARE WITHIN 81 FEET OF A RAILROAD GRADE CROSSING. THE ILLINOIS SUPPLEMENT TO THE MUTCD SHOULD BE CONSULTED FOR ADDITIONAL INFORMATION ON SIGN REQUIREMENTS AT NON-SIGNALIZED INTERSECTIONS NEAR RAILROAD GRADE CROSSINGS.

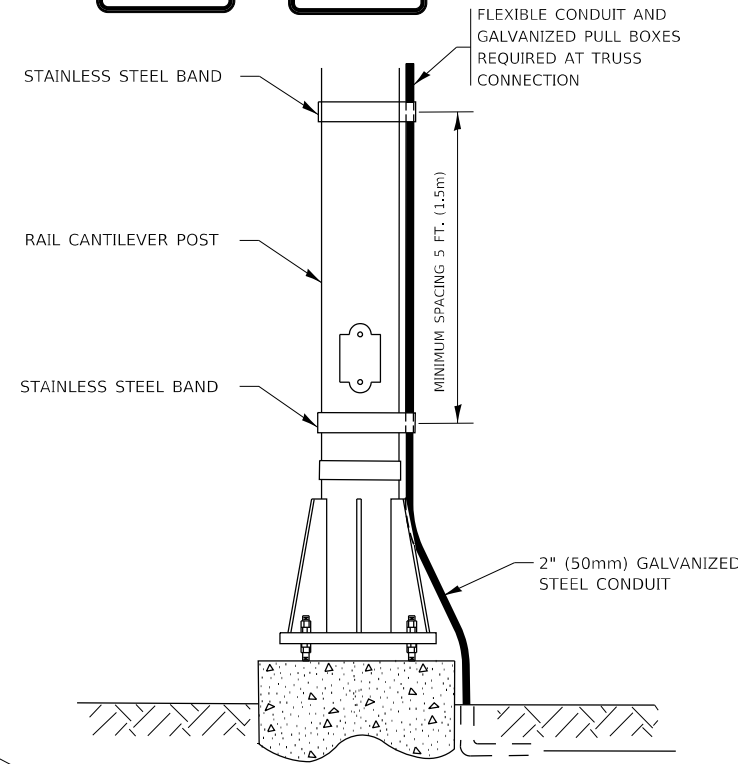
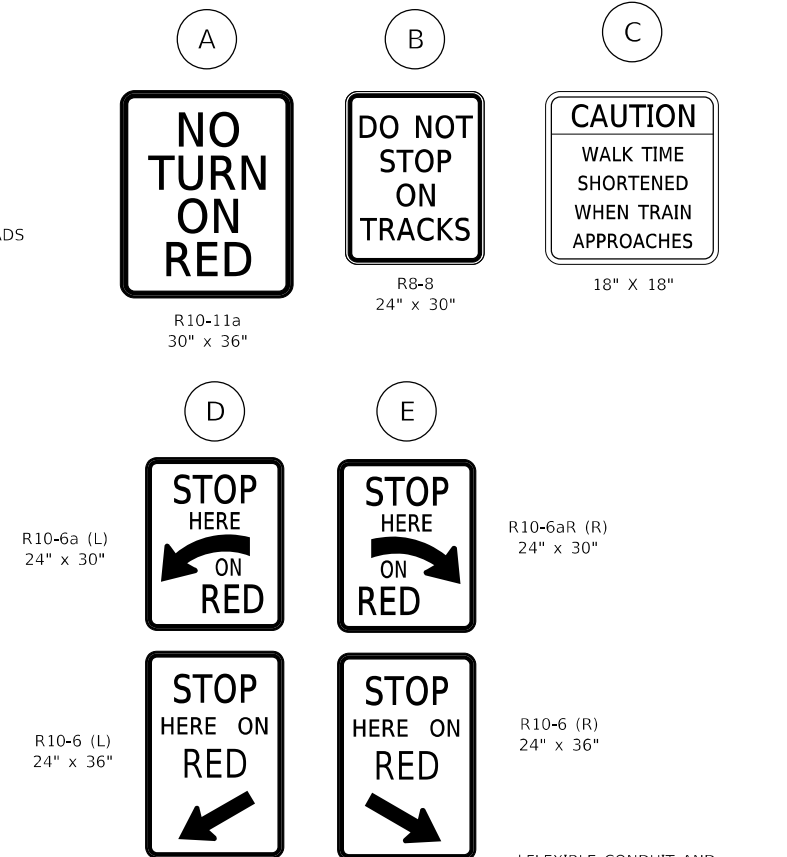
THESE DETAILS WILL BE INCLUDED IN A FUTURE UPDATE TO THE BUREAU OF OPERATIONS TRAFFIC POLICIES AND PROCEDURES MANUAL.



**SIGNALIZED INTERSECTION WITH NEAR-SIDE TRAFFIC SIGNAL**

**NOTE:**

- PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
- PRE-SIGNAL POST-MOUNTED TRAFFIC SIGNAL HEADS INSTALLED IN THE MEDIAN SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 4.5 FT. PARKWAY POST-MOUNTED TRAFFIC SIGNAL HEADS SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 8 FT.



**SIGNAL CONDUIT CONNECTION TO RAIL CANTILEVER DETAIL**

USE NON-CONDUCTIVE SPACERS BETWEEN THE TRAFFIC SIGNAL EQUIPMENT AND THE RAILROAD CANTILEVER TO PREVENT DISSIMILAR METAL CORROSION.

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

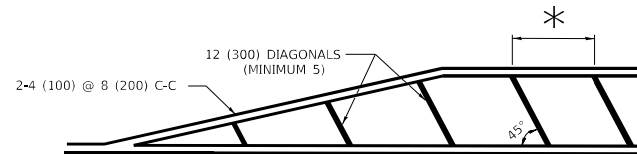
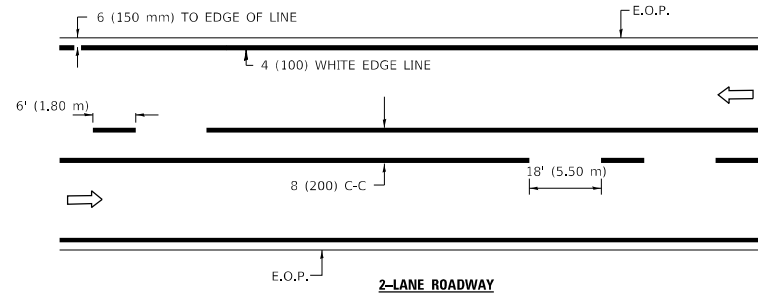
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PLOT DATE = 8/22/2019	DATE -	REVISED - D.G. 8-22-19

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TYPICAL SUPPLEMENTAL SIGNING AND PAVEMENT MARKING  
 TREATMENT FOR RAILROAD CROSSINGS**

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

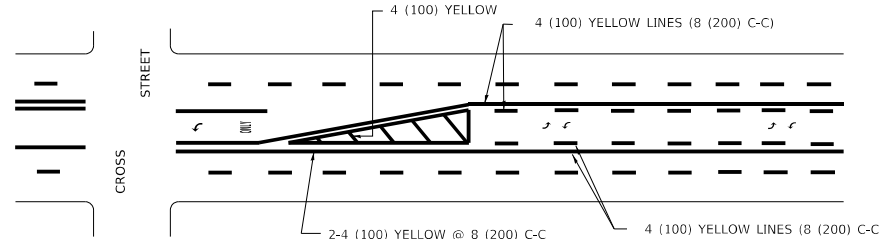
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TC-23		CONTRACT NO. 62N72		
ILLINOIS		FED. AID PROJECT		



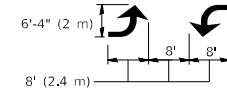
\* FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

\* DIAGONAL LINE SPACING: 20' (6.1 m) C-C

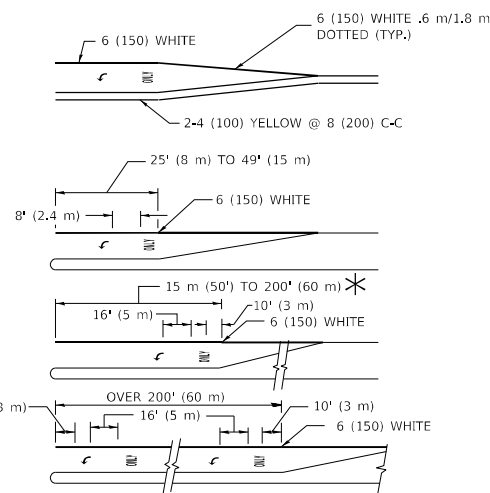
**PAINTED MEDIANS**



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.



**TYPICAL PAINTED MEDIAN MARKING**

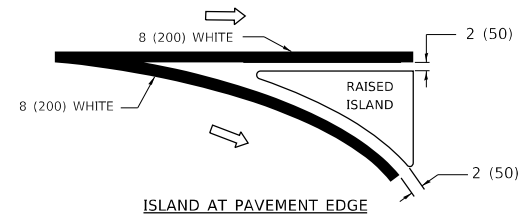
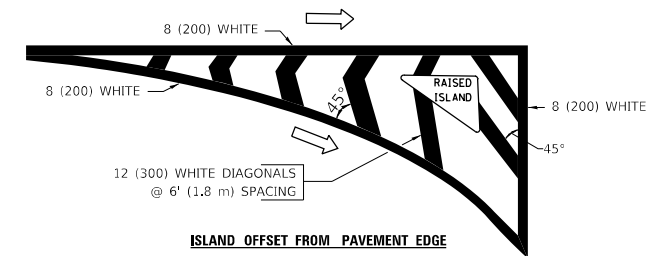


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
AREA = 15.8 SQ. FT. (1.47 m<sup>2</sup>) ONLY AREA = 22.9 SQ. FT. (2.13 m<sup>2</sup>)

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

**TYPICAL LEFT (OR RIGHT) TURN LANE**

**TYPICAL TURN LANE MARKING**

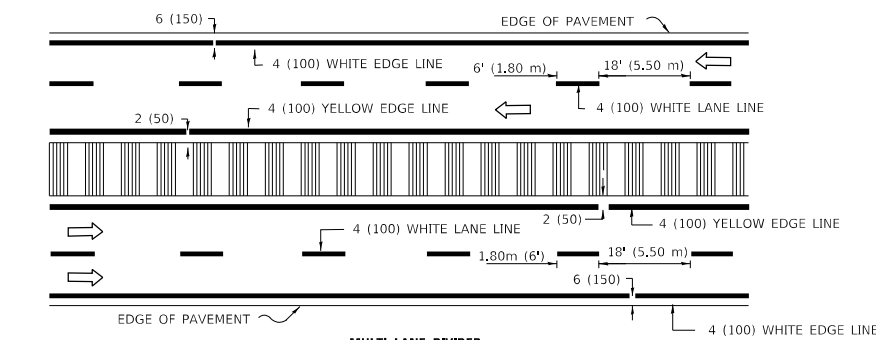
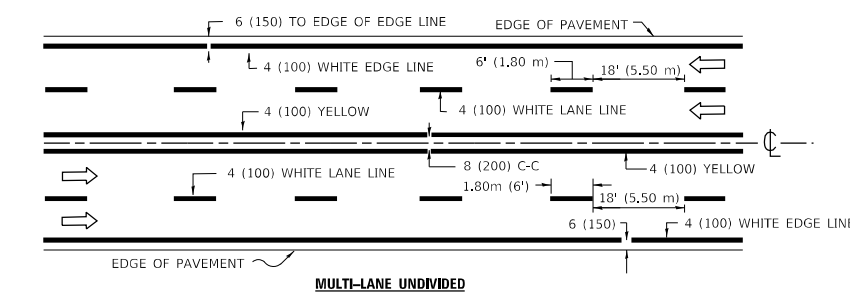


**TYPICAL ISLAND MARKING**

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	6' (1.80 m) LINE WITH 18' (5.50 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	8 (200) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	8 (200) C-C
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	6' (1.80 m) LINE WITH 18' (5.50 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) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4 m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4 m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	6' (1.8 m) LINE WITH 18' (5.50 m) SPACE FOR SKIP-DASH; 8 (200) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL & PEDESTRIAN)	12 (300) @ 45° 24 (600) @ 90°	SOLID SOLID	WHITE WHITE	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°	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	8 (200) 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: 20' (6.1 m) (LESS THAN 30 MPH (50 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )

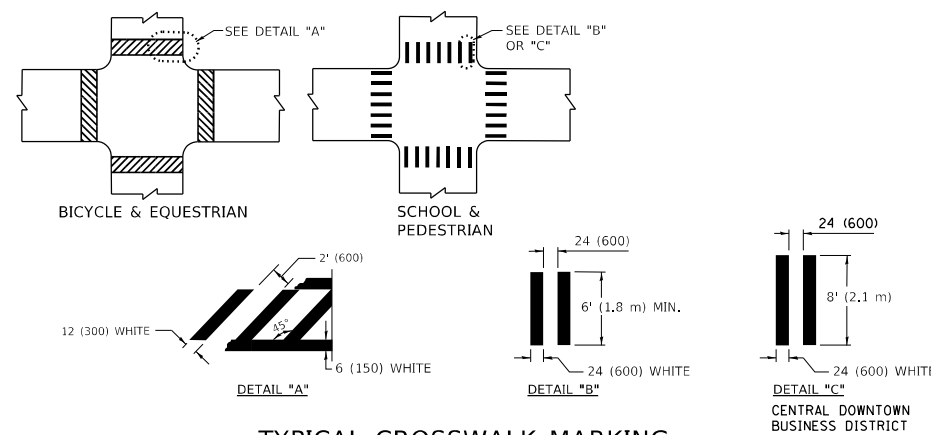
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STREET MARKING STANDARDS, PRINTED BY CITY OF CHICAGO, DEPARTMENT OF TRANSPORTATION, BUREAU OF TRAFFIC.

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



NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

**TYPICAL LANE AND EDGE LINE MARKING**



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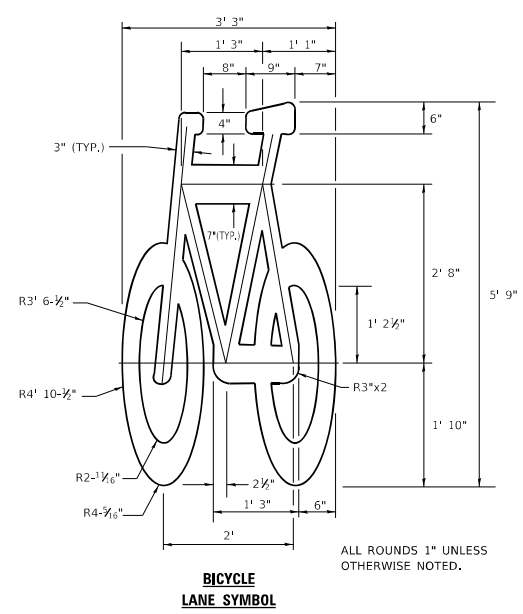
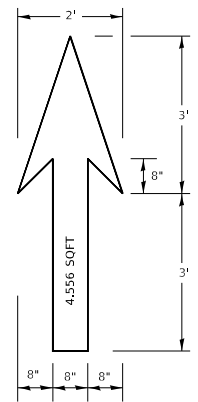
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CITY OF CHICAGO  
TYPICAL PAVEMENT MARKINGS

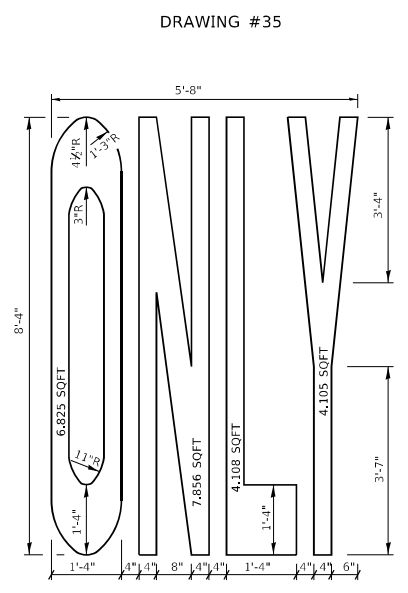
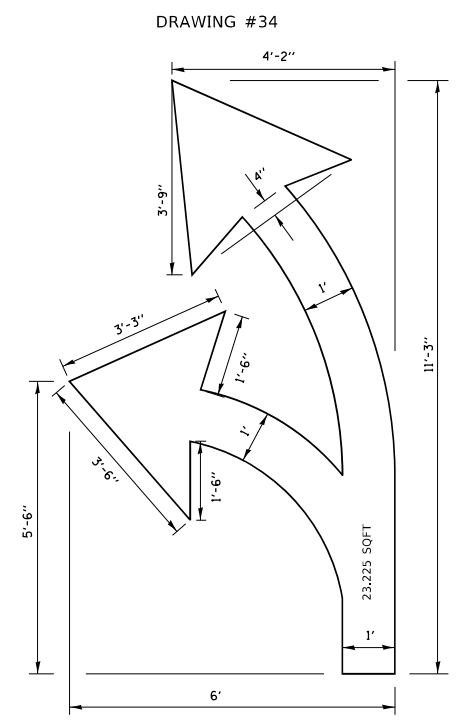
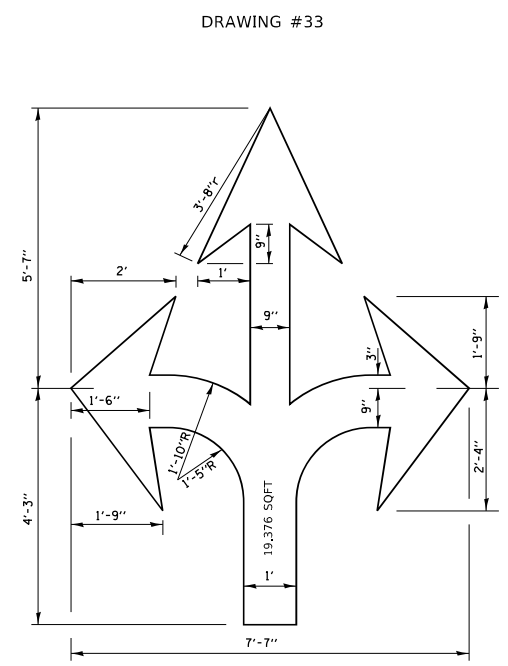
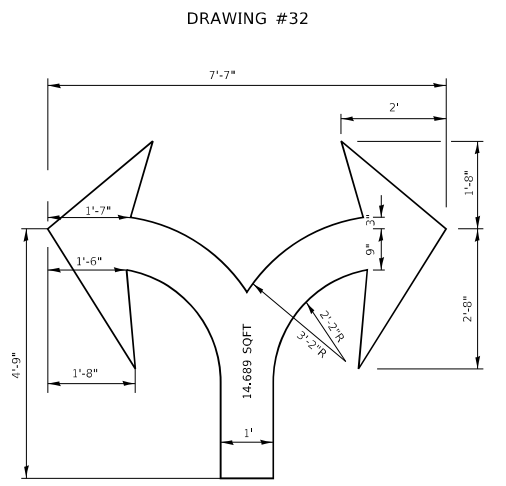
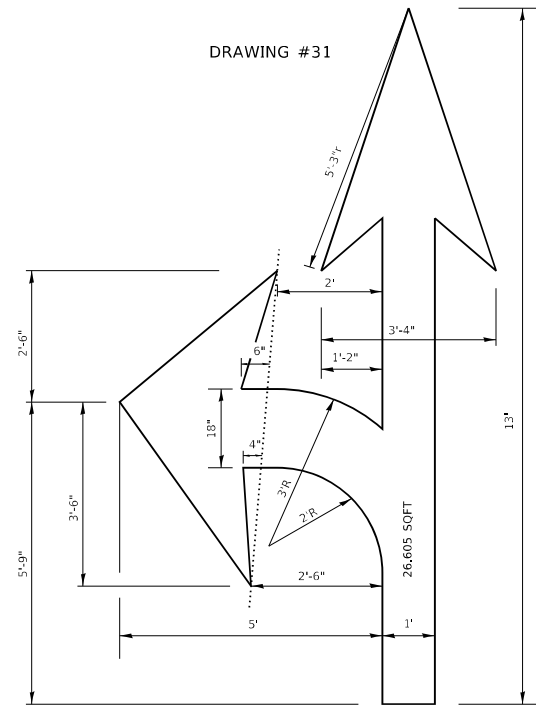
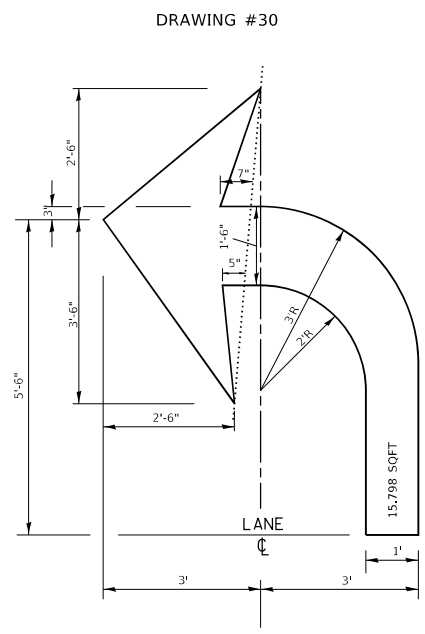
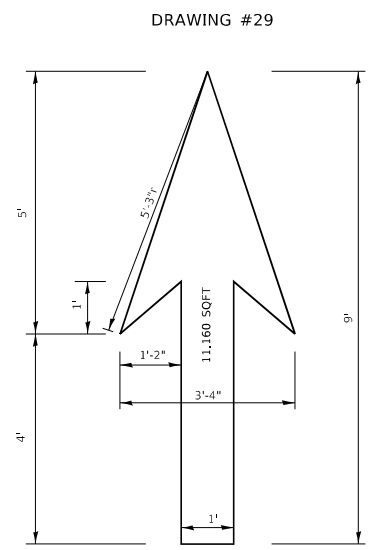
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F.A.U. RTE. 3592	SECTION 2021-011-RS-SR&SW	COUNTY COOK	TOTAL SHEETS 57	SHEET NO. 41
TC-24		CONTRACT NO. 62N72		
ILLINOIS FED. AID PROJECT				



- NOTE:**
1. FOR BIKE LANE SYMBOLS ONLY, USE PRE-FORMED THERMOPLASTIC WITH A MINIMUM THICKNESS OF 90 MILS, MINIMUM SKID RESISTANCE VALUE OF 60 BPN, & A MINIMUM INDEX OF REFRACTION OF 1.50.
  2. THE RESIDENT ENGINEER SHALL CONTACT MR. BEN GOMBERG AT 312-744-8093 AT LEAST ONE CALENDAR WEEK PRIOR TO INSTALLING BIKE LANE SYMBOLS.

**TYPICAL BIKE LANE SYMBOLS**  
DRAWING #28



**NOTE:**  
ALL MARKINGS SHALL BE SOLID WHITE UNLESS OTHERWISE NOTED IN THE PLANS

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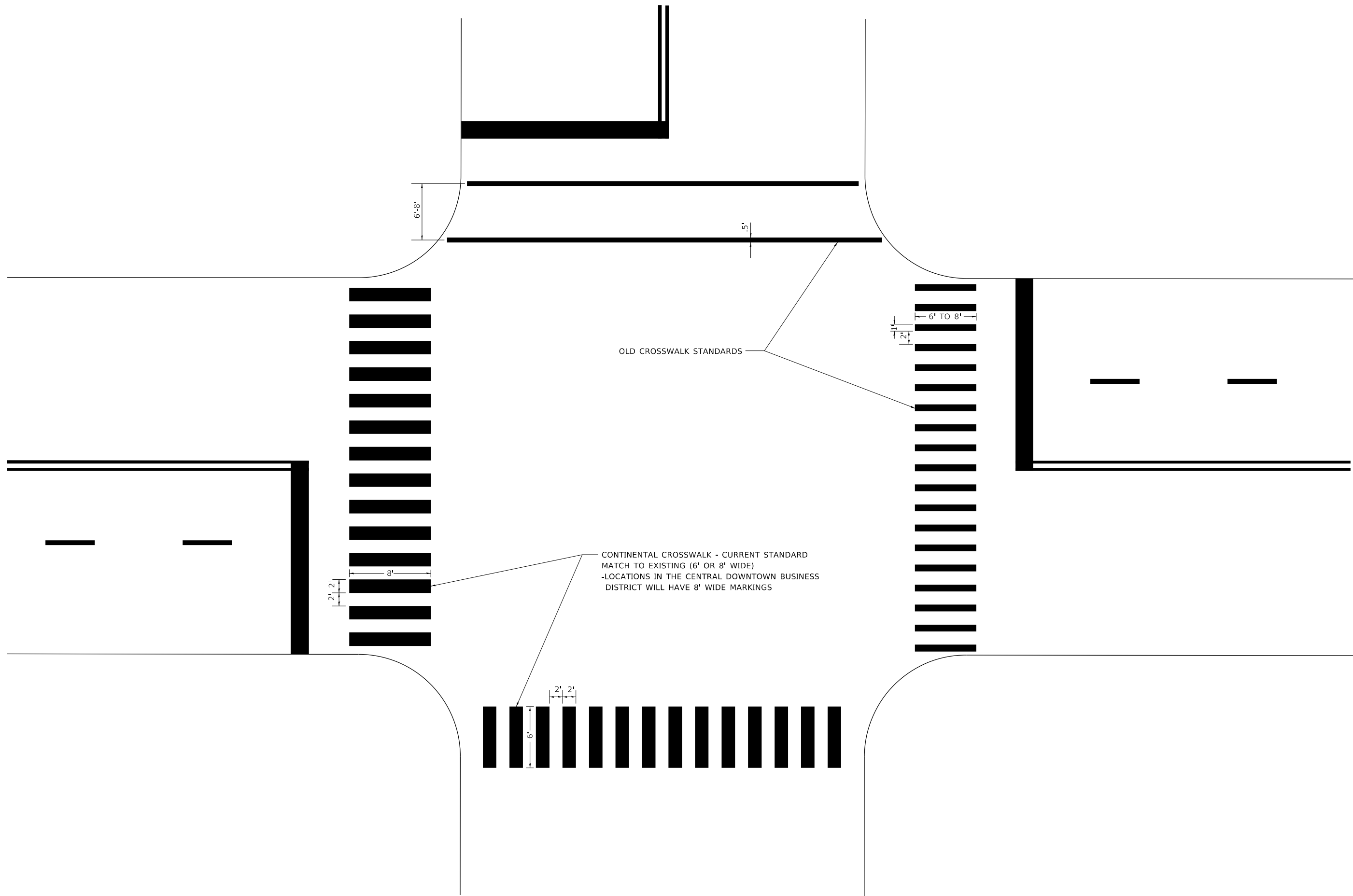
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>CITY OF CHICAGO</b>			
<b>TYPICAL PAVEMENT MARKINGS</b>			
SCALE: NONE	SHEET 2	OF 3 SHEETS	STA. TO STA.

F.A.U. RTE. 3592	SECTION 2021-011-RS-SR&SW	COUNTY COOK	TOTAL SHEETS 57	SHEET NO. 42
<b>TC-24</b>		CONTRACT NO. 62N72		
ILLINOIS		FED. AID PROJECT		

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CONTINENTAL CROSSWALK - CURRENT STANDARD  
 MATCH TO EXISTING (6' OR 8' WIDE)  
 -LOCATIONS IN THE CENTRAL DOWNTOWN BUSINESS  
 DISTRICT WILL HAVE 8' WIDE MARKINGS

OLD CROSSWALK STANDARDS

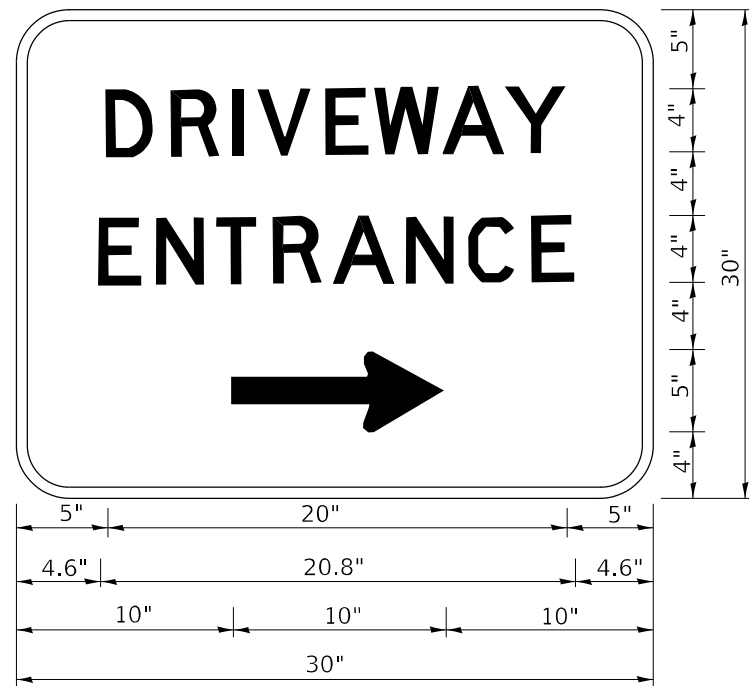
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CITY OF CHICAGO  
 TYPICAL PAVEMENT MARKINGS**

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SCALE: NONE SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3592	2021-011-RS-SR&SW	COOK	57	43
<b>TC-24</b>			CONTRACT NO. 62N72	
ILLINOIS FED. AID PROJECT				



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

NOTES:

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

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

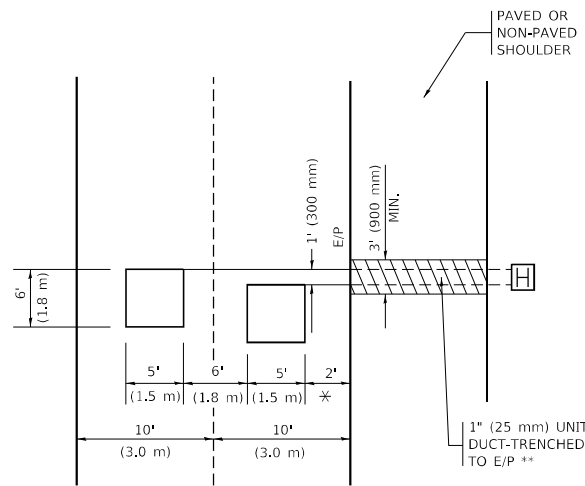
**DRIVEWAY ENTRANCE SIGNING**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3592	2021-011-RS-SR&SW	COOK	57	44
<b>TC-26</b>			CONTRACT NO. 62N72	
		ILLINOIS	FED. AID PROJECT	

**LOOPS NEXT TO SHOULDERS**

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

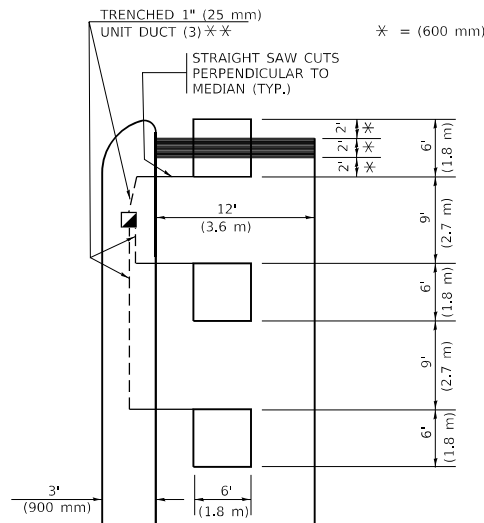


\* = (600 mm)

\*\* 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)**

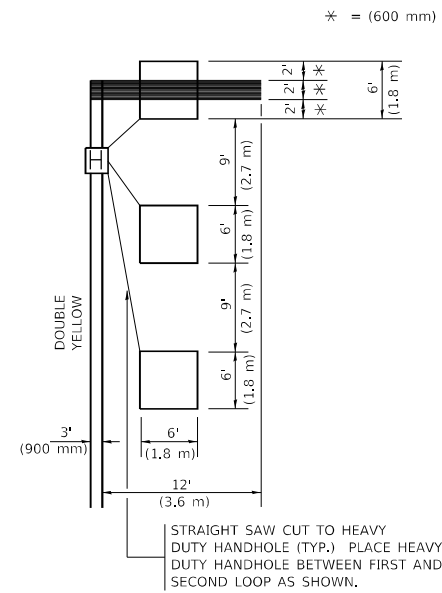
HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.



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

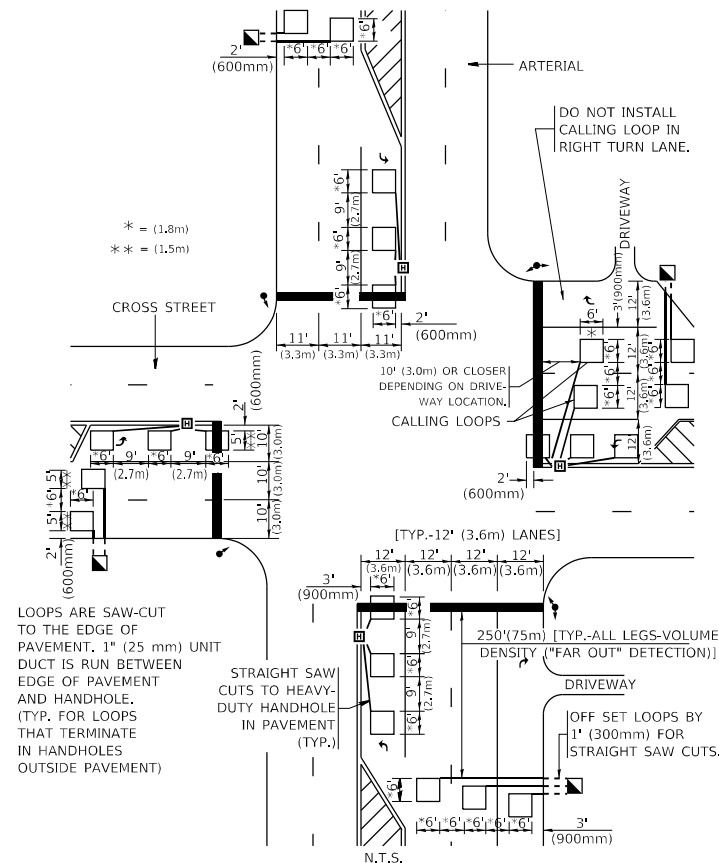
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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



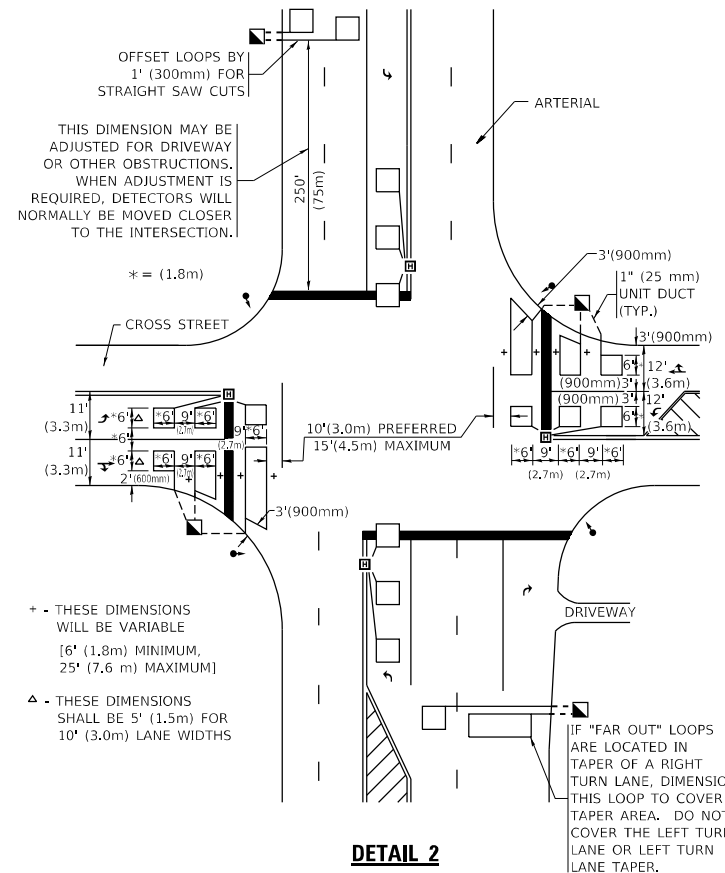
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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



**DETAIL 1**  
N.T.S.

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



**DETAIL 2**  
N.T.S.

**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.

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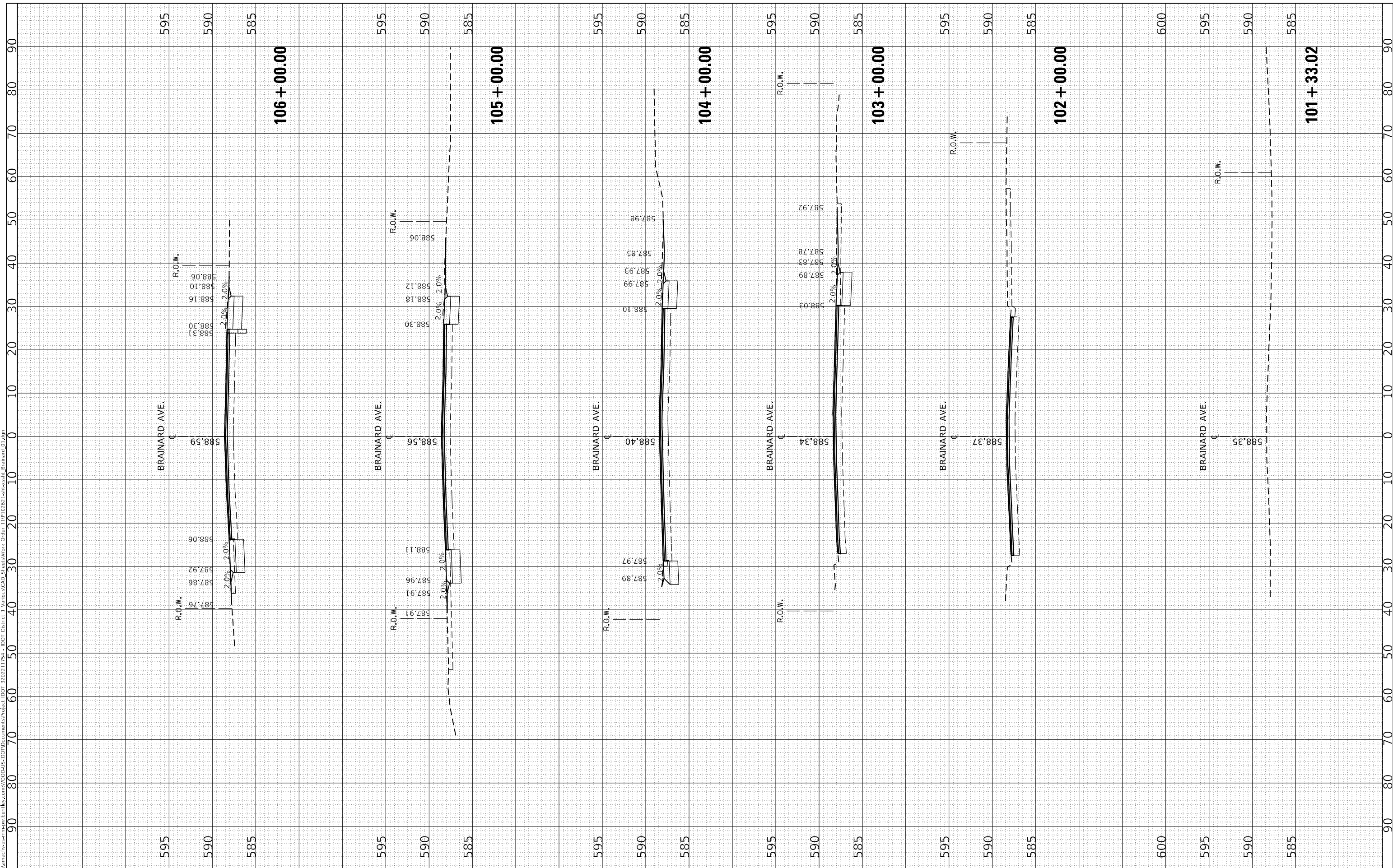
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>DISTRICT 1 - DETECTOR LOOP INSTALLATION</b>		F.A.U. RTL. 3592	SECTION 2021-011-RS-SR&SW	COUNTY COOK	TOTAL SHEETS 57	SHEET NO. 45
<b>DETAILS FOR ROADWAY RESURFACING</b>		<b>TS-07</b>		CONTRACT NO. 62N72		
SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT			

FINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
	PLOTTED		
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BRAINARD AVE FROM MUSKEGAN AVE TO STATE LINE ROAD  
 CROSS SECTIONS**

SCALE: 1"=10'      SHEET      OF      SHEETS      STA. 101+33.02      TO STA. 106+00.00

F.A.U. RTE. 3592	SECTION 2021-011-R5-SR&SW	COUNTY COOK	TOTAL SHEETS 57	SHEET NO. 46
			CONTRACT NO. 62N72	
		ILLINOIS FED. AID PROJECT		

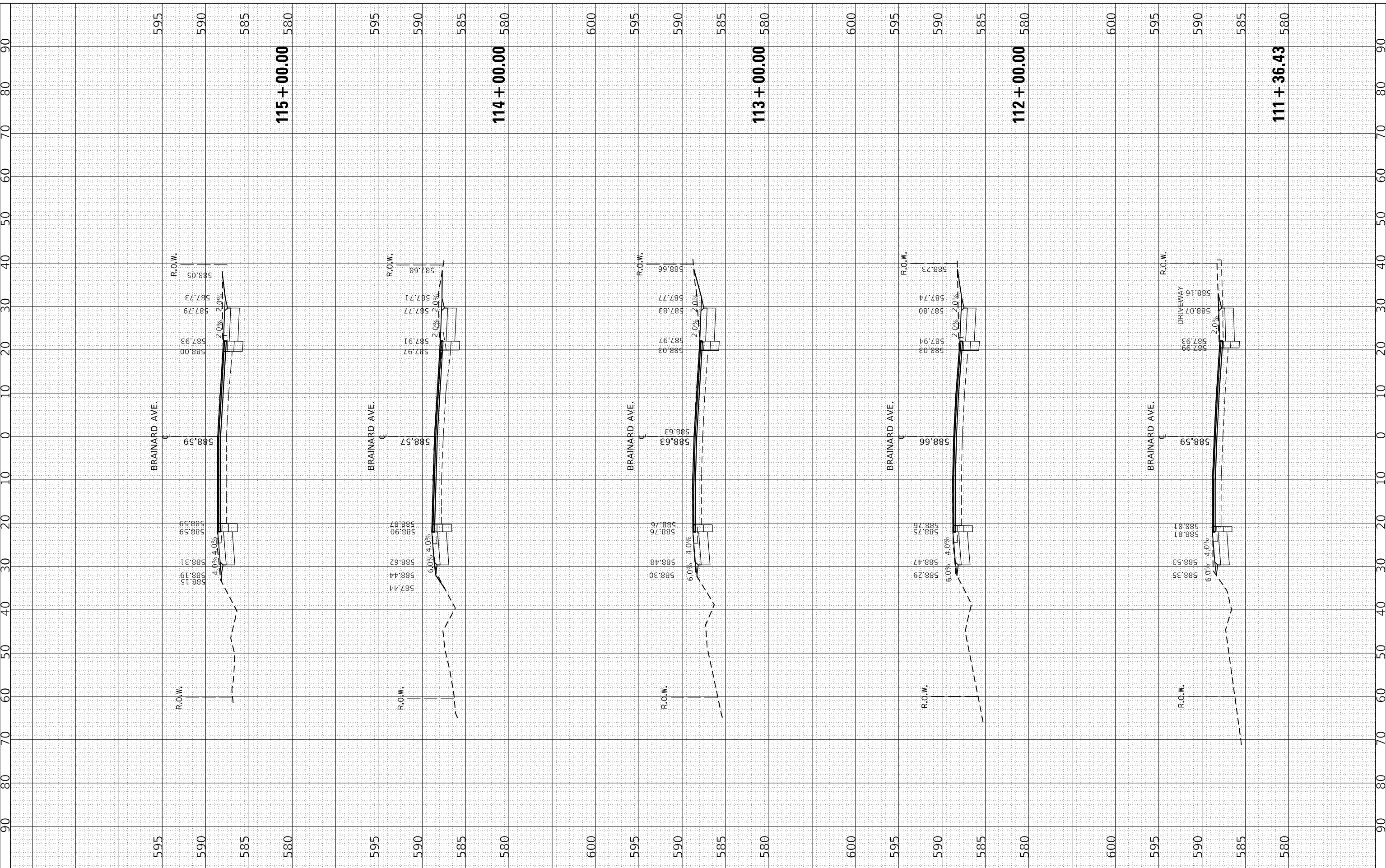




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	AREAS CHECKED		

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BRAINARD AVE FROM MUSKEGAN AVE TO STATE LINE ROAD  
CROSS SECTIONS**

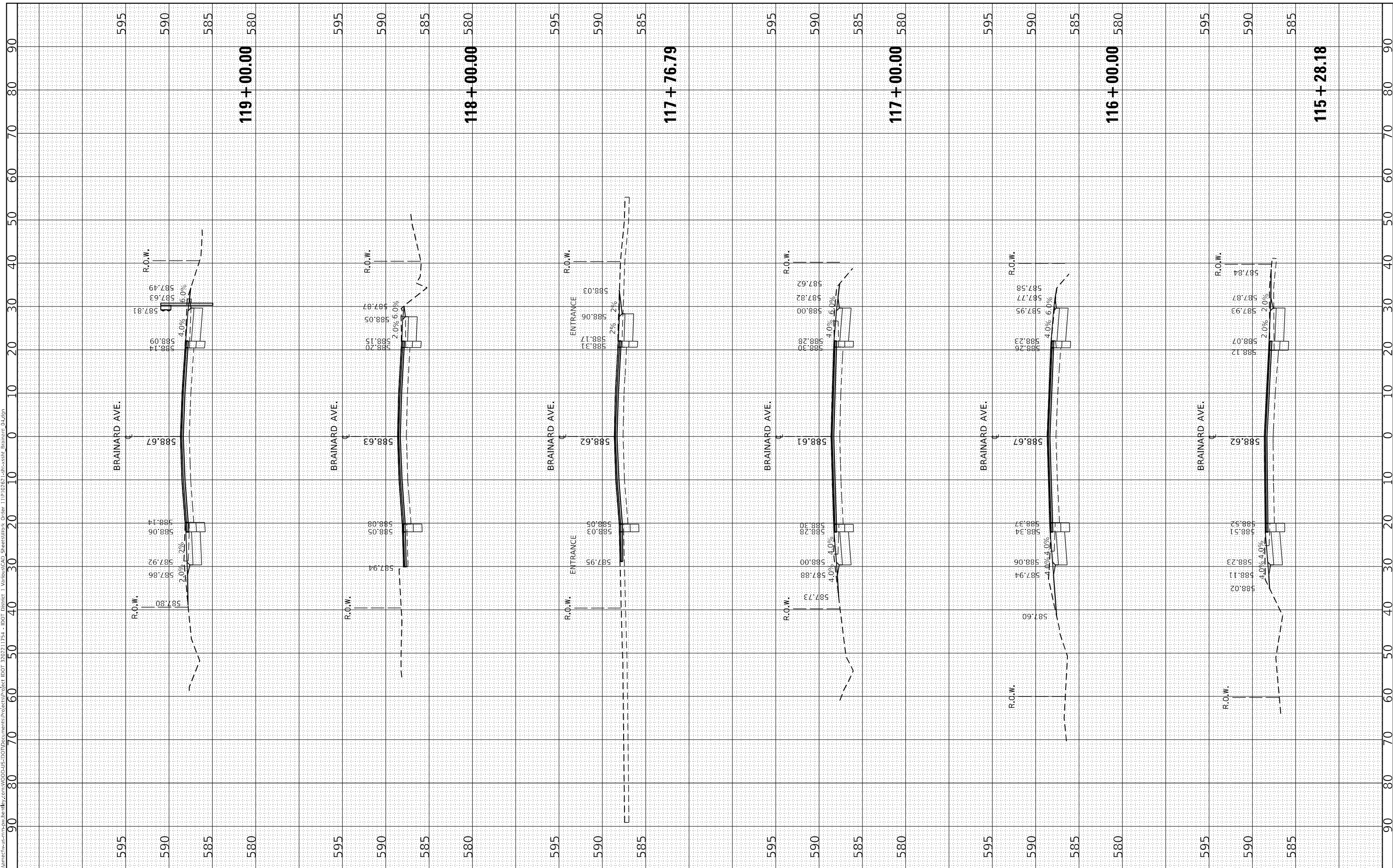
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F.A.U. RTE. 3592	SECTION 2021-011-R5-SR&SW	COUNTY COOK	TOTAL SHEETS 57	SHEET NO. 48
CONTRACT NO. 62N72			ILLINOIS FED. AID PROJECT	

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ORIGINAL SURVEY	SURVEYED	BY	DATE
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	AREAS CHECKED		

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CHECKED	- CMP
DATE	- 1/12/2022
PLOT SCALE	= 20,0000 * / in.
PLOT DATE	= 3/24/2022

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BRAINARD AVE FROM MUSKEGAN AVE TO STATE LINE ROAD  
 CROSS SECTIONS

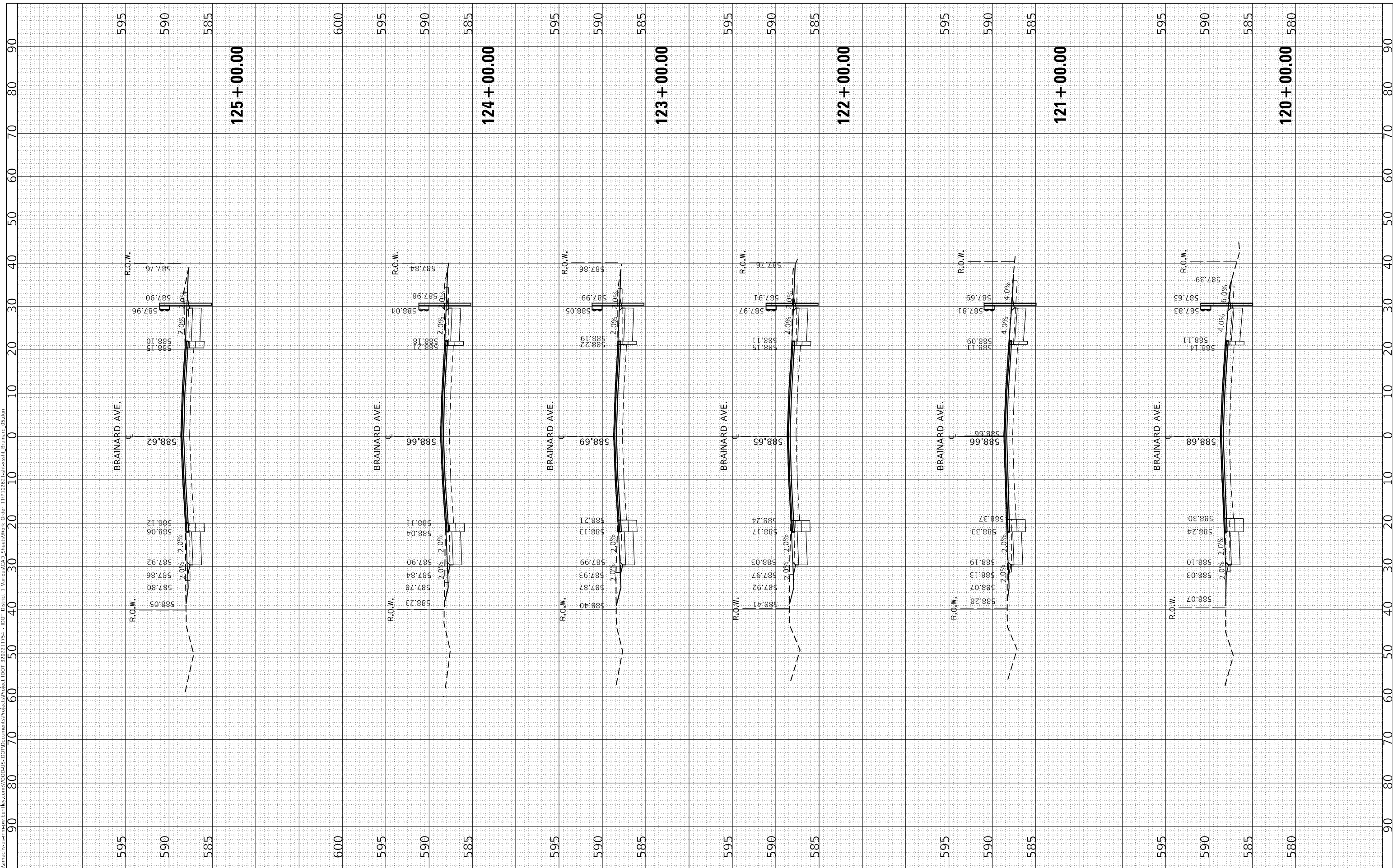
SCALE: 1"=10' SHEET OF SHEETS STA. 115+28.18 TO STA. 119+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3592	2021-011-R5-SR&SW	COOK	57	49
CONTRACT NO. 62N72				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		
	AREAS CHECKED		

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USER NAME = kently.estimable	DESIGNED - KE	REVISED -
	DRAWN - KE	REVISED -
PLOT SCALE = 20,0000 * / in.	CHECKED - CMP	REVISED -
PLOT DATE = 3/24/2022	DATE - 1/12/2022	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BRAINARD AVE FROM MUSKEGAN AVE TO STATE LINE ROAD  
 CROSS SECTIONS**

SCALE: 1"=10'      SHEET      OF      SHEETS      STA. 120+00.00      TO STA. 125+00.00

F.A.U. RTE. 3592	SECTION 2021-011-R5-SR&SW	COUNTY COOK	TOTAL SHEETS 57	SHEET NO. 50
ILLINOIS			FED. AID PROJECT	
CONTRACT NO. 62N72				



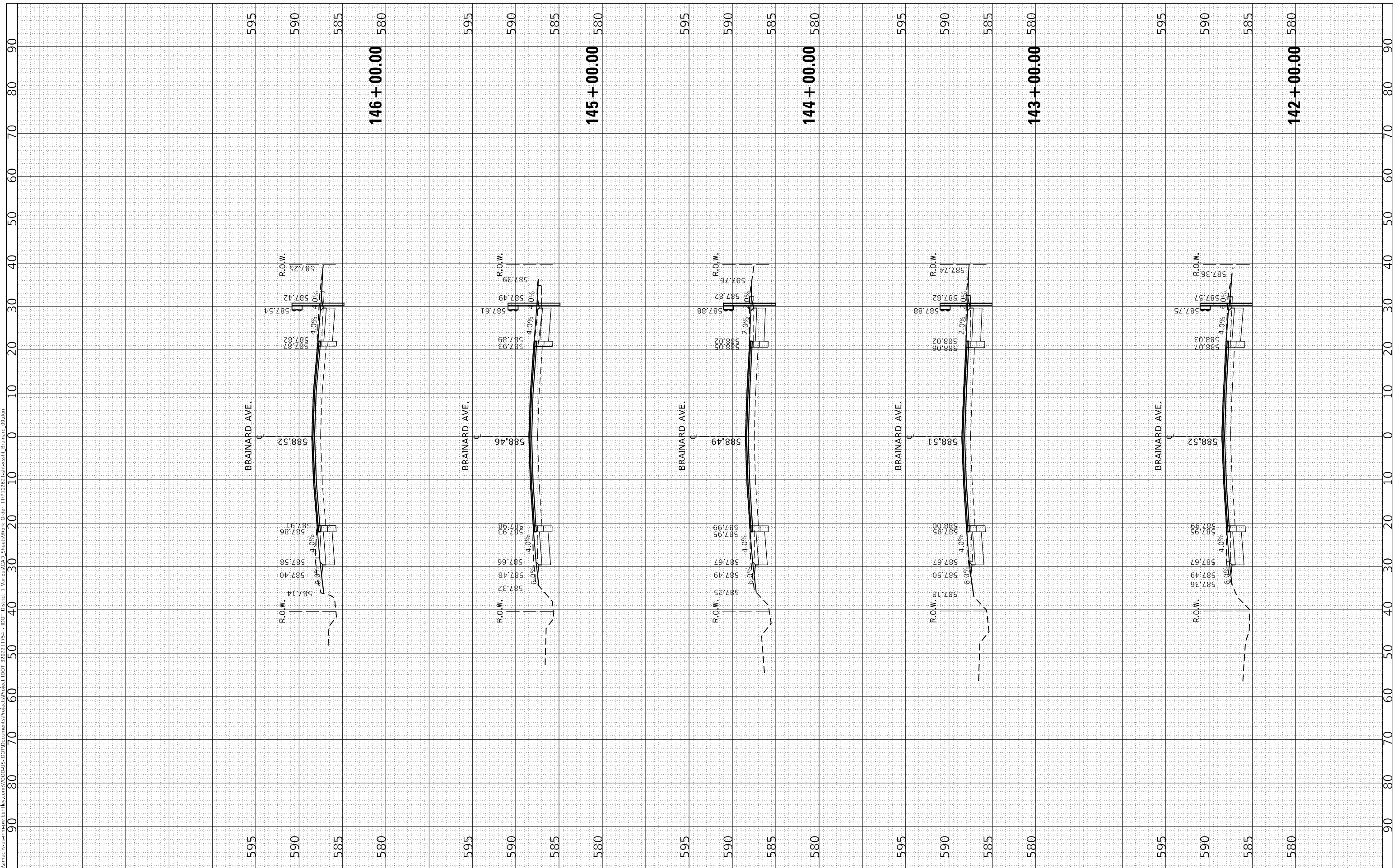




FINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		
	AREAS CHECKED		

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PLOT DATE = 3/24/2022	CHECKED - CMP	REVISOR -
	DATE - 1/12/2022	REVISOR -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BRAINARD AVE FROM MUSKEGAN AVE TO STATE LINE ROAD  
 CROSS SECTIONS**

SCALE: 1"=10'      SHEET      OF      SHEETS      STA. 142+00.00      TO STA. 146+00.00

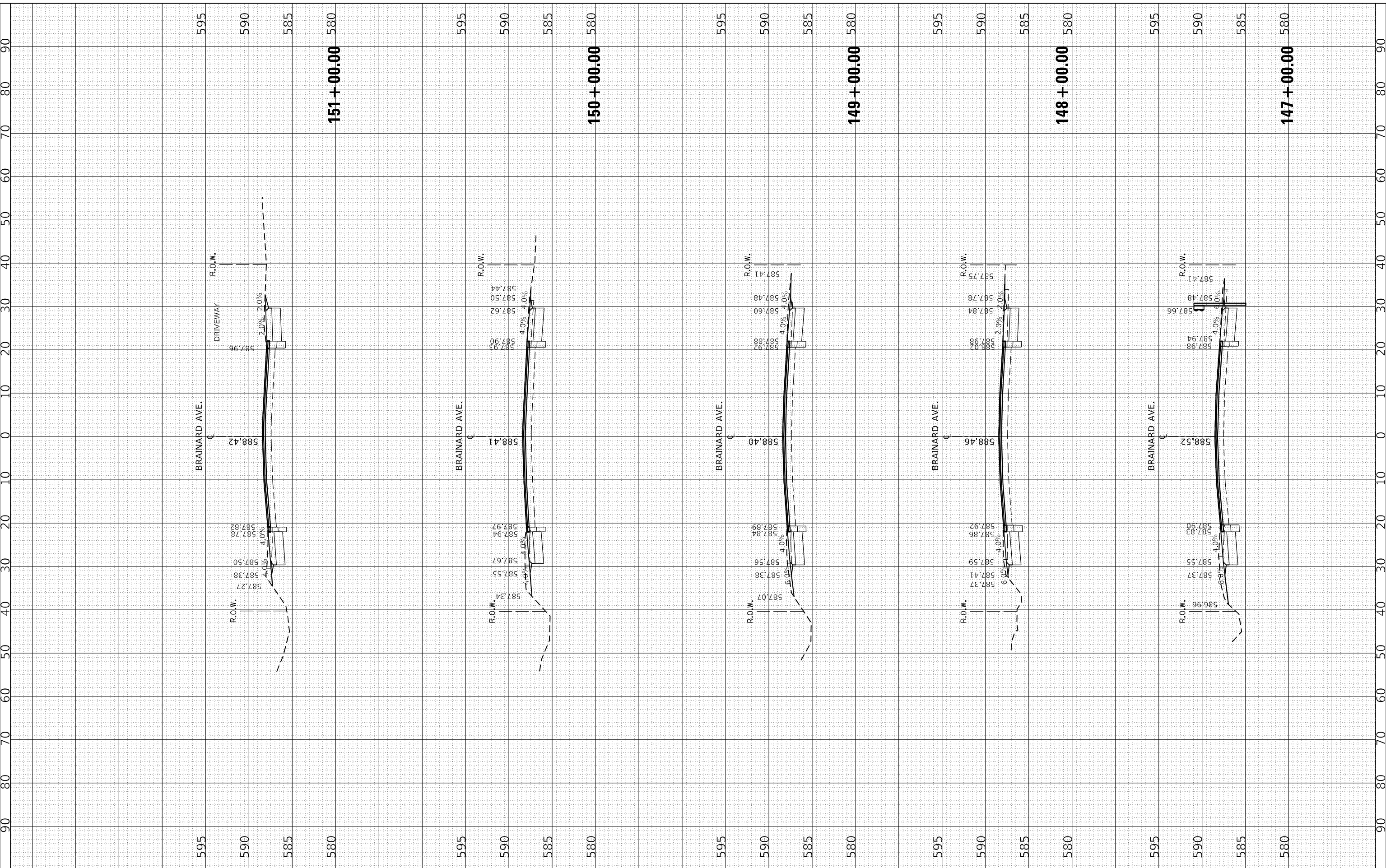
F.A.U. RTE. 3592	SECTION 2021-011-R5-SR&SW	COUNTY COOK	TOTAL SHEETS 57	SHEET NO. 54
CONTRACT NO. 62N72				
ILLINOIS FED. AID PROJECT				



FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

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USER NAME = kently_estimable	DESIGNED - KE	REVISIONS
PLOT SCALE = 20,0000' / in.	DRAWN - KE	REVISIONS
PLOT DATE = 4/23/2022	CHECKED - CMP	REVISIONS
	DATE - 1/12/2022	REVISIONS

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BRAINARD AVE FROM MUSKEGAN AVE TO STATE LINE ROAD  
 CROSS SECTIONS**

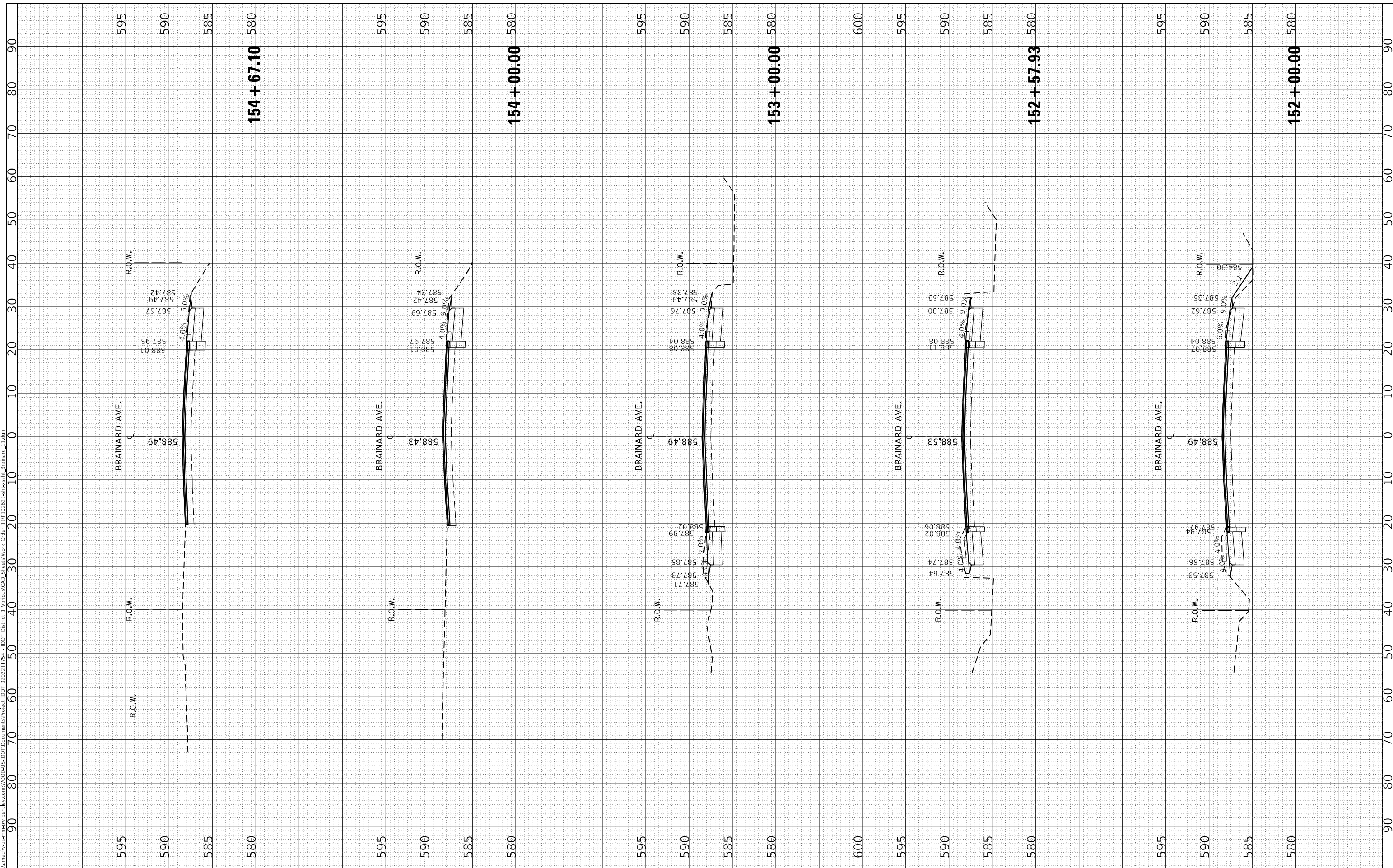
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F.A.U. RTE. 3592	SECTION 2021-011-R5-SR&SW	COUNTY COOK	TOTAL SHEETS 57	SHEET NO. 55
CONTRACT NO. 62N72				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		
	AREAS CHECKED		

MODEL: Definit  
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USER NAME = kently.estimable	DESIGNED - KE	REVISED -
PLOT SCALE = 20,0000' / in.	DRAWN - KE	REVISED -
PLOT DATE = 4/23/2022	CHECKED - CMP	REVISED -
	DATE - 1/12/2022	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BRAINARD AVE FROM MUSKEGAN AVE TO STATE LINE ROAD  
 CROSS SECTIONS**

SCALE: 1"=10'      SHEET      OF      SHEETS      STA. 151+00.00      TO STA. 155+00.00

F.A.U. RTE. 3592	SECTION 2021-011-R5-SR&SW	COUNTY COOK	TOTAL SHEETS 57	SHEET NO. 56
CONTRACT NO. 62N72				
ILLINOIS FED. AID PROJECT				

