

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

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED
 FEDERAL AID HIGHWAY

FAU ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1694/1408	21-00134-00-RS	COOK	68	1
ILLINOIS PROJECT		AQ4W(052)		
CONTRACT NO.		61K86		



LOCATION OF SECTION INDICATED THUS: [Symbol]

FUNCTIONAL CLASSIFICATION
 GRAND BOULEVARD - MAJOR COLLECTOR
 BROOKFIELD AVENUE - MINOR COLLECTOR

TRAFFIC DATA
GRAND BOULEVARD
 ADT (2022) = 3,250, ADT

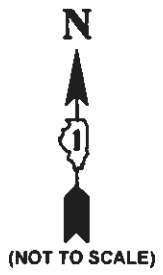
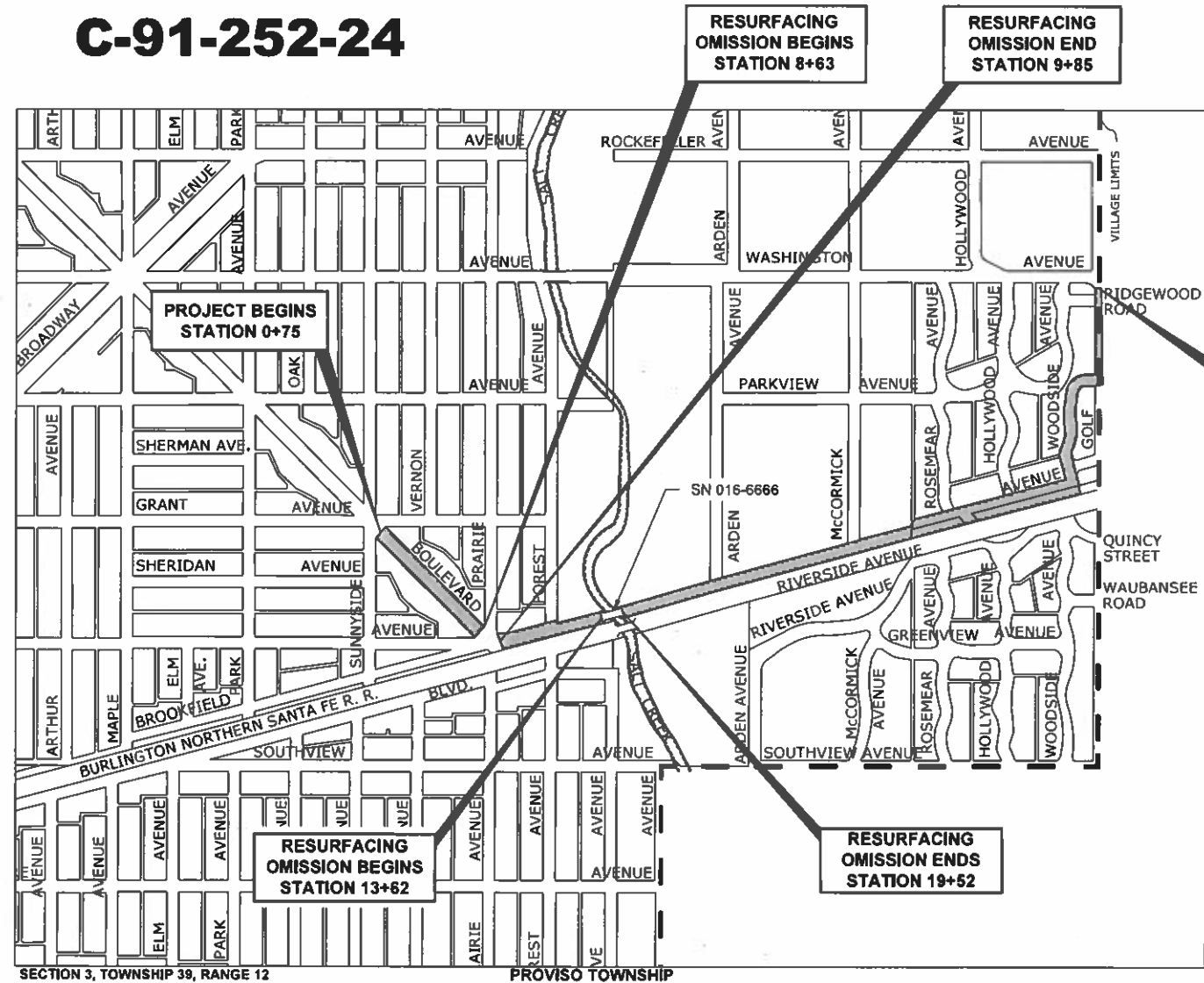
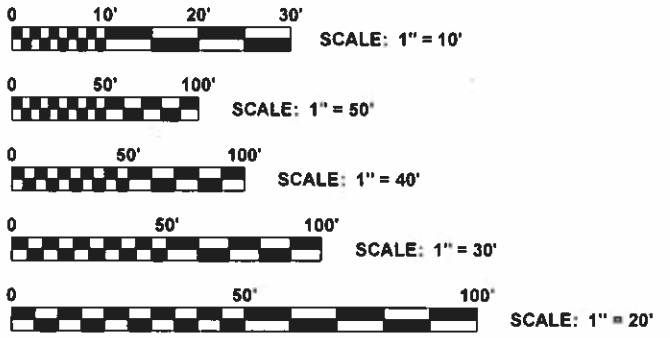
BROOKFIELD AVENUE
 ADT (2022) = 800, ADT

POSTED SPEED LIMIT
 GRAND BOULEVARD = 25 MPH
 BROOKFIELD AVENUE = 25 MPH

DESIGN SPEED LIMIT
 GRAND BOULEVARD = 30 MPH
 BROOKFIELD AVENUE = 30 MPH

FAU ROUTE 1694 (GRAND BOULEVARD)
GRANT AVENUE TO BROOKFIELD AVENUE
FAU ROUTE 1408 (BROOKFIELD AVENUE)
PRAIRIE AVE TO WASHINGTON AVENUE
RESURFACING
SECTION NO.: 21-00134-00-RS
PROJECT NO.: AQ4W(052)
VILLAGES OF BROOKFIELD AND RIVERSIDE
COOK COUNTY
C-91-252-24

HANCOCK ENGINEERING
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 Civil Engineers 7333 Roosevelt Road Westchester, IL 60154-2792
 Municipal Consultants Phone: 708-865-7300 www.hancock.com
 Established 1911



STATE OF ILLINOIS
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

APPROVED: [Signature] 20 24
 VILLAGE OF BROOKFIELD, PRESIDENT

APPROVED: [Signature] 20 24
 VILLAGE OF RIVERSIDE, PRESIDENT

PASSED: NOV 15 20 24
 DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS

RELEASED FOR BID BASED ON LIMITED REVIEW: November 13 20 24
 REGIONAL ENGINEER

TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DRAINAGE OF SURFACE WATERS WILL NOT BE CHANGED BY THE PROPOSED DEVELOPMENT. IF ANY DRAINAGE PATTERNS WILL BE CHANGED, REASONABLE PROVISIONS HAVE BEEN MADE FOR THE COLLECTION AND DIVERSION OF SUCH SURFACE WATERS INTO THE PUBLIC AREA, OR DRAINS APPROVED FOR THE USE BY THE MUNICIPAL ENGINEER, AND THAT SUCH SURFACE WATERS ARE PLANNED FOR IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES SO AS TO REDUCE THE LIKELIHOOD OF DAMAGES TO ADJOINING PROPERTIES



SIGNED: [Signature] DATE: 8/22/24 LICENSE EXPIRES: 11-30-28

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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.



Contact the Metropolitan Water Reclamation District of Greater Chicago 2 days before starting work.
 P (708) 588-4055
 E WMOjobStart@mwrdd.org

FEDERAL AID PROGRAM ENGINEER: CARMEN E. RAMOS, P.E., SCHAUMBURG, ILLINOIS
 CONSULTANT: EDWIN HANCOCK ENGINEERING CO., 9933 ROOSEVELT ROAD WESTCHESTER, IL 60154 PHONE: (708) 865-0300

CONTRACT NO. 61K86

SECTION 3, TOWNSHIP 39, RANGE 12 PROVISO TOWNSHIP
 - AREA OF IMPROVEMENT
 GROSS LENGTH OF IMPROVEMENT = 5,313 FT = 1.006 MI
 NET LENGTH OF IMPROVEMENT = 4,601 FT = 0.871 MI

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET, LOCATION MAP
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38-40	DETOUR PLAN
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52-53	STREET LIGHTING PLAN
54-55	STREET LIGHTING WIRING DIAGRAM
56-59	LIGHTING DETAILS
60-68	IDOT DISTRICT ONE DETAILS

LEGEND OF SYMBOLS

(TO BE USED IN CONJUNCTION WITH I.D.O.T. STANDARD 000001-08)

EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION
		POWER POLE			STORM SEWER TO BE REMOVED
		GAS VALVE			STORM SEWER PIPE
		STREET LIGHT			COMBINATION SEWER PIPE
		WATER MAIN BUFFALO BOX			SANITARY SEWER PIPE
		WATER MAIN VALVE BOX			UNDERDRAIN
		SPRINKLER			WATER MAIN
		WATER MAIN VALVE VAULT			ELECTRIC LINE
		STORM INLET			GAS LINE
		FIRE HYDRANT			TELECOMMUNICATION LINE
		EXISTING STRUCTURE TO BE REMOVED			CURB AND GUTTER
		EXISTING STRUCTURE TO BE FILLED			EXISTING CURB AND GUTTER TO BE REMOVED
		TREE TO BE REMOVED			DIRECTION OF FLOW
		BUSH			DRAINAGE SUMMIT
		NEW TREE			WATER MAIN VALVE VAULT RIM AND TOP OF PIPE ELEVATION
		TREE			COMBINATION MANHOLE RIM AND INVERT ELEVATION
		EVERGREEN TREE			STORM SEWER MANHOLE/CATCHBASIN RIM AND INVERT ELEVATION
		TREE TRUNK PROTECTION			STRUCTURE TO BE ADJUSTED
	TP	ROOT PRUNING			TYPE 1 FRAME & CLOSED LID
	RP	NON-SPECIAL WASTE DISPOSAL			TYPE 1 FRAME & OPEN LID
		EXISTING CONCRETE SIDEWALK TO BE REMOVED			RECONSTRUCT EXISTING STRUCTURE
		EXISTING CONCRETE DRIVEWAY TO BE REMOVED			GROUND ELEVATIONS
		EARTH EXCAVATION			
		PROPOSED CONCRETE PAVEMENT/SIDEWALK			
		PROPOSED HOT MIX ASPHALT PAVING			
		PROPOSED HOT MIX ASPHALT PAVING			

DISTRICT ONE DETAILS

- TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10)
- DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)
- SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS (TC-16)
- DETOUR SIGNING FOR CLOSING STATE HIGHWAYS (TC-21)
- ARTERIAL ROAD INFORMATION SIGN (TC-22)
- DRIVEWAY ENTRANCE SIGNING (TC-26)
- FRAMES AND LIDS ADJUSTMENT WITH MILLING (BD-08)
- BUTT JOINTS AND HMA TAPER DETAILS (BD-32)
- MISC. ELECTRICAL DETAILS, SHEET A (BE-702)

HIGHWAY STANDARDS DRAWINGS

STANDARD NO.	TITLE OR DESCRIPTION	STANDARD NO.	TITLE OR DESCRIPTION
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS	720001-01	SIGN PANEL MOUNTING DETAILS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS	720006-04	SIGN PANEL ERECTION DETAILS
424001-12	PERPENDICULAR CURB RAMPS FOR SIDEWALKS	720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
424016-06	MID-BLOCK CURB RAMPS FOR SIDEWALKS	720016-04	MAST ARM MOUNTED STREET NAME SIGNS
424026-04	ENTRANCE ALLEY PEDESTRIAN CROSSINGS	728001-01	TELESCOPING STEEL SIGN SUPPORT
442101-09	CLASS B PATCHES	729001-01	APPLICATIONS OF TYPES A&B METAL POSTS
442201-03	CLASS C & D PATCHES	731001-01	BASE FOR TELESCOPING STEEL SIGN SUPPORT
601001-05	PIPE UNDERDRAINS	780001-05	TYPICAL PAVEMENT MARKINGS
602601-06	PRECAST REINFORCED CONCRETE FLAT SLAB TOP	805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5M) TO 24"(600MM) FROM PAVEMENT EDGE	814001-03	HANDHOLES
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY	814006-03	DOUBLE HANDHOLES
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS	838001-01	BREAK AWAY DEVICES
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS-DAY ONLY		
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED		
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE		
701901-10	TRAFFIC CONTROL DEVICES		

Drawing file: W:\Projects_by_Village\Brockfield\12521005 - Brockfield And 3700 Block of Grand LAFD\02_Index.dwg Nov 08, 2024 - 7:46am

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DESIGNED --	REVISD --
DRAWN -- ECW, SB, GD, DMM, LW	REVISD --
CHECKED --	REVISD --
DATE -- 11-7-24	REVISD --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS AND LEGEND OF SYMBOLS
 SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1694/140R	21-00134-00-RS	COOK	68	2
CONTRACT NO. 61K86			FED. AID PROJECT	
FED. ROAD DIST. NO. 1 ILLINOIS				

GENERAL NOTES AND UTILITIES

- ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED TO BE THE LATEST STANDARD OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION AS SHOWN ON THE INDEX OF SHEETS IN THE PLANS. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE "STANDARDS SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2022, AND THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" ADOPTED JANUARY 1, 2025, THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC AND CONTROL DEVICES FOR STREETS AND HIGHWAYS," 11TH EDITION, THE "SPECIAL PROVISIONS" INCLUDED IN THE CONTRACT DOCUMENTS, THE VILLAGE OF BROOKFIELD MUNICIPAL CODE, THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO (MWRD) WATERSHED MANAGEMENT ORDINANCE AND TECHNICAL GUIDANCE MANUAL, AND THE "DETAILS" IN THE PLANS. IN CASE OF CONFLICT BETWEEN THE APPLICABLE ORDINANCES NOTED, THE MORE STRINGENT SHALL TAKE PRECEDENCE AND SHALL CONTROL ALL CONSTRUCTION.
- WHEN WORK COMMENCES, THE CONTRACTOR SHALL ASSUME THE MAINTENANCE OF ANY PAVEMENT, SHOULDERS, DRAINAGE FACILITIES, TRAFFIC CONTROL SIGNS, PAVEMENT MARKINGS, AND OTHER APPURTENANCES ON ROADWAYS WITHIN THE LIMITS OF THE CONTRACT THAT ARE TO BE USED BY THE PUBLIC DURING CONSTRUCTION AND TO RETAIN THIS MAINTENANCE RESPONSIBILITY UNTIL PROJECT COMPLETION. SNOW AND ICE CONTROL OR REMOVAL WILL BE DONE BY OTHERS.
- CONTRACTOR SHALL TAKE PRECAUTION BY PRESERVING EXISTING TREES WITHIN THE RIGHT OF WAY. IF ANY DAMAGE OCCURS, TREE SHALL BE REPLACED IN KIND PER ARTICLE 201.07 REPAIR OR REPLACEMENT OF EXISTING PLANT MATERIAL REQUIREMENTS STATED HEREIN.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE OR VILLAGE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.
- THE CONTRACTOR SHALL MAINTAIN ACCESS FOR EMERGENCY VEHICLES AND GARBAGE TRUCKS AT ALL TIMES. IF THE GARBAGE TRUCKS ARE NOT ABLE TO HAVE ACCESS TO ALL OF THE PROPERTIES WITHIN THE PROJECT LIMITS, THEN THE CONTRACTOR SHALL PLACE ANY GARBAGE THAT IS AFFECTED IN A LOCATION WHERE THE GARBAGE TRUCKS CAN PICK IT UP. THE CONTRACTOR SHALL RETURN THE GARBAGE CANS TO THE PARKWAY OF THE RESPECTIVE PROPERTY BY THE END OF THE DAY.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING WRITTEN NOTICE TO ALL RESIDENCES AND/OR PLACES OF BUSINESS IN THE WORK ZONE AT LEAST ONE (1) WORKING DAY PRIOR TO PERFORMING ANY CONSTRUCTION ACTIVITY THAT WILL ELIMINATE ACCESS TO THEIR PROPERTY. THE WRITTEN NOTICE SHALL BE APPROVED BY THE ENGINEER AND COORDINATED WITH THE VILLAGE PRIOR TO THE BEGINNING OF CONSTRUCTION.
- IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO COORDINATE WITH THE BNSF RAILROAD WHENEVER CONSTRUCTION ACTIVITY IS WITHIN 25 FEET OF THE RAILROAD OR WITHIN BNSF ROW. THE CONTRACTOR SHALL RETAIN FLAGMEN EMPLOYED AND DESIGNATED BY THE BNSF RAILROAD TO MONITOR ON-COMING TRAIN TRAFFIC, AND ADVISE CONTRACTOR PERSONNEL WHEN ACTIVITY ON OR NEAR THE RAILROAD ROW MAY PROCEED. THIS ITEM WILL BE PAID FOR ACCORDING TO ARTICLE 107.12 AND WILL BE REIMBURSED ACCORDING TO ARTICLE 109.05.
- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 811 FOR FIELD LOCATIONS OF BURIED ELECTRICAL, TELEPHONE AND GAS FACILITIES. (48 HOURS NOTIFICATION IS REQUIRED).
- THE LOCATIONS OF THE UNDERGROUND UTILITIES IF SHOWN ON THE PLANS HAVE BEEN OBTAINED BY FIELD SURVEYS AND SEARCHES OF AVAILABLE RECORDS. THE VILLAGE OF BROOKFIELD, THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND/OR OTHER OFFICES AND AGENCIES ASSOCIATED WITH THE DEVELOPMENT OF THESE PLANS DO NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS. THE CONTRACTOR SHALL BE REQUIRED TO VERIFY THE EXACT LOCATION OF EACH FACILITY WITH THE UTILITY COMPANY, AND SHALL TAKE DUE CARE IN ALL PHASES OF THE CONSTRUCTION TO PROTECT ANY SUCH FACILITIES WHICH MAY BE AFFECTED BY THE WORK. ANY DAMAGE TO EXISTING UTILITIES DURING CONSTRUCTION ACTIVITIES SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF BROOKFIELD.
- ADJUSTMENTS REQUIRED BY UTILITY COMPANIES WILL BE PERFORMED BY THE COMPANY INVOLVED OR ITS CONTRACTOR, BUT WILL BE COORDINATED BY GENERAL CONTRACTOR.

THE CONTRACTOR SHALL USE EXTREME CAUTION IN THE REMOVAL OF ABANDONED EXISTING GAS LINES SINCE RESIDUAL MATERIALS CONTAINED THEREIN ARE HIGHLY EXPLOSIVE, FLAMMABLE, AND TOXIC. ONCE THE MAINS ARE ABANDONED BY THE OWNER, THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY DAMAGE AND/OR INJURY OCCURRING ON THE PROJECT DUE TO HIS/HER OPERATIONS NEXT TO THE MAINS AND/OR THE METHOD OF REMOVAL OF THE ABANDONED MAINS.
- THE VILLAGE WILL PASS OUT A LETTER REQUESTING THAT ALL RESIDENTS WITH SPRINKLER SYSTEMS IN THE PARKWAY NOTIFY THE VILLAGE PRIOR TO CONSTRUCTION. THE VILLAGE WILL THEN MARK THE SPRINKLER HEADS ON THESE SYSTEMS. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL COSTS FOR REPAIRING ANY DAMAGE THAT IS DONE TO EXISTING SPRINKLER SYSTEMS THAT HAVE BEEN LOCATED BY THE VILLAGE PRIOR TO THE DAMAGE BEING DONE.

CONSTRUCTION NOTES

- THE SUBGRADE STABILITY WILL BE VERIFIED BY PROOF ROLLING WITH A FULLY LOADED TANDEM-AXLE TRUCK.
- 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 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.
- ANY AGGREGATE SUBGRADE IMPROVEMENT CONTAMINATED AND/OR DAMAGED BY THE CONTRACTOR'S VEHICLES AND/OR EQUIPMENTS IS TO BE REMOVED AND REPLACED AS DIRECT BY THE ENGINEER AT CONTRACTOR EXPENSE.
- WHEN REMOVING PAVEMENT AND/OR OTHER STRUCTURES, THE CONTRACTOR SHALL NOT USE ANY TYPE OF CONCRETE BREAKERS SUCH AS DROP HAMMERS, THAT MIGHT DAMAGE UNDERGROUND PUBLIC OR PRIVATE UTILITIES.
- THE CONTRACTOR SHALL SAW CUT ASPHALT PAVEMENT AS INDICATED ON THE PLANS TO SEPARATE THE EXISTING PAVEMENT TO BE REMOVED BY APPROVED MEANS OR AN APPROVED CONCRETE SAW TO A DEPTH AS DIRECTED BY THE ENGINEER. SUITABLE GUIDELINES OR DEVICES SHALL BE USED TO ASSURE CUTTING A NEAT, STRAIGHT LINE AS SHOWN ON THE PLANS. CARE SHALL BE TAKEN BY THE CONTRACTOR AS NOT TO DAMAGE THE REMAINING PAVEMENT DIRECTLY ADJACENT TO THE PAVEMENT TO BE REMOVED. ANY DAMAGE TO THE EXISTING PAVEMENT RESULTING FROM PAVEMENT REMOVAL OPERATIONS SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER.
- A BUTT JOINT WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT) IN ACCORDANCE WITH THE "BUTT JOINT AND HMA TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
- WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1/4 INCHES (40 MM) WHERE THE SPEED LIMIT IS 45 MPH (80 KM/H) OR LESS AND 1 INCH (25 MM) WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH (80 KM/H). WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES (75 MM) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).
- THE CONTRACTOR WILL BE REQUIRED TO SCHEDULE THEIR OPERATIONS SO THAT NO SECTIONS OF PAVEMENT ALONG THE CENTERLINE WILL HAVE A COLD JOINT OVERNIGHT.
- LOCATIONS OF CLASS B OR D PATCHES ON PLANS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD BY ENGINEER. CLASS B OR D PATCHES LOCATED WITHIN THE THROUGH LANES SHALL BE MADE ACCESSIBLE TO TRAFFIC AT THE END OF EACH WORK DAY.
- PAVEMENT PATCHING SHALL BE STAGED TO MAINTAIN TWO-WAY TRAFFIC AT ALL TIMES.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO TAKE PRECAUTIONS SO AS NOT TO DAMAGE EXISTING SIDEWALKS, DRIVEWAYS, AND PAVEMENTS OUTSIDE THE LIMITS OF RESTORATION. THE GENERAL LIMITS OF RESTORATION ARE SHOWN ON THE PLANS. THE ENGINEER WILL MARK OUT THE EXACT LIMITS OF REMOVAL FOR THESE ITEMS PRIOR TO THE COMMENCEMENT OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ANY DAMAGE TO SIDEWALKS, DRIVEWAYS, AND PAVEMENTS OUTSIDE OF THESE LIMITS TO THE SATISFACTION OF THE ENGINEER AND THE VILLAGE AT HIS OWN EXPENSE.
- LOCATIONS OF CURB AND GUTTER AND SIDEWALK REPLACEMENT ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED DURING CONSTRUCTION.

UNDERGROUND NOTES

- SANITARY SEWER SERVICE CONNECTION LENGTHS SHOWN ON PLAN ARE ESTIMATED. CONTRACTOR TO VERIFY IN FIELD SERVICE PIPE QUALITY AND GRADE WHEN MAKING CONNECTIONS TO EXISTING PIPE. SPECIAL ATTENTION SHOULD BE PAID TO CROSSINGS AT PURPOSED STORM SEWER PIPE. UNLESS SHOWN OTHERWISE ON PLAN, ASSUMED SANITARY SERVICE PIPE LENGTH TO COMPLETE CONNECTION IS 4'.
- THE TYPE OF THE FRAMES AND GRATES REQUIRED FOR ALL CATCH BASINS AND MANHOLE LISTED IN THE SUMMARY OF QUANTITIES MAY BE FOUND ON THE PLANS AT THEIR RESPECTIVE LOCATIONS. WHERE LIDS ARE CALLED FOR ON THE PLANS, THEY SHALL BE IN ACCORDANCE WITH ARTICLE 604.01 OF TH STANDARD SPECIFICATIONS AND THE TERM LID IS USED IN LIEU OF GRATE.

THE WORD "WATER", "SANITARY", OR "STORM" SHALL BE CAST INTO THE LID OF EACH RESPECTIVE MANHOLE OR VALVE VAULT.
- ON ALL IMPROVEMENTS, THE FRAMES AND LIDS OF EXISTING CATCH BASINS, INLETS, MANHOLES, AND VALVE VAULTS WHICH ARE TO BE ABANDONED DUE TO CONSTRUCTION OF THIS IMPROVEMENT ARE TO REMAIN THE PROPERTY OF THE VILLAGE OF BROOKFIELD AND BE SALVAGED. THE CONTRACTOR SHALL DELIVER FRAMES AND LIDS TO THE VILLAGE OF BROOKFIELD LOCATED AT 4545 EBERLY AVE, BROOKFIELD, IL 60513 (708) 485-7344.
- THE CONTRACTOR SHALL CONDUCT OPERATIONS AS TO MAINTAIN AT ALL TIMES FLOW THROUGH EXISTING STORM AND SAN ITARY SEWER SYSTEMS. THE CONTRACTOR SHALL ALSO PROVIDE AND MAINTAIN AN EFFICIENT PUMPING PLANT IF NECESSARY AND A TEMPORARY OUTLET AND BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER COLLECTED IN A SAFE MANNER WITHOUT DAMAGE OF ANY KIND TO ADJACENT PROPERTIES. THE ENDS OF EXISTING DRAINAGE LINES THAT ARE NOT TO BE INCORPORATED INTO THE PROJECT SHALL BE SEALED AS SPECIFIED IN THE SPECIAL PROVISIONS. EXISTING STRUCTURES ARE TO BE INSPECTED BEFORE CONSTRUCTION STARTS - ANY ACCUMULATION OF MATERIAL IN THE STRUCTURE DUE TO CONSTRUCTION OPERATIONS SHALL BE REMOVED BY THE CONTRACTOR.
- ALL ABANDONED SANITARY SEWERS SHALL BE PLUGGED AT BOTH ENDS WITH AT LEAST 2 FEET LONG NON-SHRINK CONCRETE OR MORTAR PLUG. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE PAY ITEMS FOR REMOVING AND/OR FILLING THE VARIOUS TYPES OR STRUCTURES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR BACKFILLING THE TRENCHES WITH CRUSHED STONE TO A LEVEL EQUAL TO THAT OF ADJACENT EXISTING PAVEMENTS BY THE END OF EACH WORK DAY. THE STONE SHALL BE LEVELED OFF AND COMPACTED TO THE SATISFACTION OF THE ENGINEER AND THE VILLAGE TO PERMIT TEMPORARY PEDESTRIAN AND VEHICULAR TRAFFIC.
- WHEN DURING THE CONSTRUCTION OPERATIONS, ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF ANY GUTTERS AND DRAINAGE STRUCTURE SO THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, IT SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF THE CONSTRUCTION OPERATIONS, ALL DRAINAGE FACILITIES SHALL BE CLEAN AND FREE OF ALL OBSTRUCTIONS DUE TO CONSTRUCTION OPERATIONS.
- FIGURES SHOWN AT SEWER REPAIRS INDICATED DISTANCE FROM CENTER OF MANHOLE.
- BACKFILLING STORM SEWER CONSTRUCTED UNDER THE ROADWAY SPECIFIED UNDER ART. 550.07 (B.C) OF THE SSRBC WILL NOT BE ALLOWED.

COMMITMENTS

- TREES THREE (3) INCHES IN DIAMETER AT BREAST HEIGHT SHALL NOT BE CLEARED FROM APRIL 1ST THROUGH SEPTEMBER 30TH.
- ALL LIGHTING SHALL BE INSTALLED UTILIZING THE ILLUMINATING ENGINEERING SOCIETY'S BUG (BACKLIGHT, UPLIGHT, AND GLARE) SYSTEM.

Drawing file: W:\Projects_by_Village\Brookfield\12511005 - Brookfield And 3700 Block of Grand LAF0103-general notes.dwg Nov 05, 2024 - 7:46am




Civil Engineers

Municipal Consultants

Established 1911

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DESIGNED	- -	REVISED	-
DRAWN	- ECW, SB, GD, DMM, LW	REVISED	-
CHECKED	- -	REVISED	-
DATE	- 11-7-24	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. - TO STA. -

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
16941408	21-00134-00-RS	COOK	68	3
CONTRACT NO. 61K86			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

Drawing file: W:\Projects_by_Village\Brookfield\12521005 - Brookfield And 3700 Block of Grand LAFD\MWR.D.G.C. GENERAL NOTES.dwg Nov 06, 2024 - 7:47am

A. REFERENCED SPECIFICATIONS

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE FOLLOWING, EXCEPT AS MODIFIED HEREIN OR ON THE PLANS:
 * STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT SS) FOR ALL IMPROVEMENTS EXCEPT SANITARY SEWER AND WATER MAIN CONSTRUCTION;
 * STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION (SSWS) FOR SANITARY SEWER AND WATER MAIN CONSTRUCTION;
 * VILLAGE OF BROOKFIELD MUNICIPAL CODE;
 * THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO (MWRD) WATERSHED MANAGEMENT ORDINANCE AND TECHNICAL GUIDANCE MANUAL;
 * IN CASE OF CONFLICT BETWEEN THE APPLICABLE ORDINANCES NOTED, THE MORE STRINGENT SHALL TAKE PRECEDENCE AND SHALL CONTROL ALL CONSTRUCTION.

B. NOTIFICATIONS

- THE MWRD LOCAL SEWER SYSTEMS SECTION FIELD OFFICE MUST BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF ANY WORK (CALL 708-588-4055 OR SEND EMAIL NOTIFICATION WITH PROJECT NAME, LOCATION AND PERMIT NUMBER TO WMOJOBSTART@MWRD.ORG).
- THE VILLAGE OF BROOKFIELD ENGINEERING DEPARTMENT AND PUBLIC MUST BE NOTIFIED AT LEAST 24 HOURS PRIOR TO THE START OF CONSTRUCTION AND PRIOR TO EACH PHASE OF WORK. CONTRACTOR SHALL DETERMINE ITEMS REQUIRING INSPECTION PRIOR TO START OF CONSTRUCTION OR EACH WORK PHASE.
- THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION FOR THE EXACT LOCATIONS OF UTILITIES AND FOR THEIR PROTECTION DURING CONSTRUCTION. IF EXISTING UTILITIES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION, IMMEDIATELY NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED. CALL J.U.L.I.E. AT 1-800-892-0123.

C. GENERAL NOTES

- ALL ELEVATIONS SHOWN ON PLANS REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). CONVERSION FACTOR IS 0 FT.
- MWRD, THE MUNICIPALITY AND THE OWNER OR OWNER'S REPRESENTATIVE SHALL HAVE THE AUTHORITY TO INSPECT, APPROVE, AND REJECT THE CONSTRUCTION IMPROVEMENTS.
- THE CONTRACTOR(S) SHALL INDEMNIFY THE OWNER, ENGINEER, MUNICIPALITY, MWRD, AND THEIR AGENTS, ETC., FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION, OR TESTING OF THIS WORK ON THE PROJECT.
- THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE ENGINEERING PLANS AS APPROVED BY MWRD AND THE MUNICIPALITY UNLESS CHANGES ARE APPROVED BY MWRD, THE MUNICIPALITY, OR AUTHORIZED AGENT. THE CONSTRUCTION DETAILS, AS PRESENTED ON THE PLANS, MUST BE FOLLOWED. PROPER CONSTRUCTION TECHNIQUES MUST BE FOLLOWED ON THE IMPROVEMENTS INDICATED ON THE PLANS.
- THE LOCATION OF VARIOUS UNDERGROUND UTILITIES WHICH ARE SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND REPRESENT THE BEST KNOWLEDGE OF THE ENGINEER. VERIFY LOCATIONS AND ELEVATIONS PRIOR TO BEGINNING THE CONSTRUCTION OPERATIONS.
- ANY EXISTING PAVEMENT, SIDEWALK, DRIVEWAY, ETC., DAMAGED DURING CONSTRUCTION OPERATIONS AND NOT CALLED FOR TO BE REMOVED SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.
- MATERIAL AND COMPACTION TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MUNICIPALITY, MWRD, AND OWNER.
- THE UNDERGROUND CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS TO NOTIFY ALL INSPECTION AGENCIES.
- ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS DISTURBED DURING CONSTRUCTION SHALL BE ADJUSTED TO FINISH GRADE PRIOR TO FINAL INSPECTION.
- RECORD DRAWINGS SHALL BE KEPT BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER AS SOON AS UNDERGROUND IMPROVEMENTS ARE COMPLETED. FINAL PAYMENTS TO THE CONTRACTOR SHALL BE HELD UNTIL THEY ARE RECEIVED. ANY CHANGES IN LENGTH, LOCATION OR ALIGNMENT SHALL BE SHOWN IN RED. ALL WYES OR BENDS SHALL BE LOCATED FROM THE DOWNSTREAM MANHOLE. ALL VALVES, B-BOXES, TEES OR BENDS SHALL BE TIED TO A FIRE HYDRANT.

D. SANITARY SEWER

- THE CONTRACTOR SHALL TAKE MEASURES TO PREVENT ANY POLLUTED WATER, SUCH AS GROUND AND SURFACE WATER, FROM ENTERING THE EXISTING SANITARY SEWERS.
- A WATER-TIGHT PLUG SHALL BE INSTALLED IN THE DOWNSTREAM SEWER PIPE AT THE POINT OF SEWER CONNECTION PRIOR TO COMMENCING ANY SEWER CONSTRUCTION. THE PLUG SHALL REMAIN IN PLACE UNTIL REMOVAL IS AUTHORIZED BY THE MUNICIPALITY AND/OR MWRD AFTER THE SEWERS HAVE BEEN TESTED AND ACCEPTED.
- DISCHARGING ANY UNPOLLUTED WATER INTO THE SANITARY SEWER SYSTEM FOR THE PURPOSE OF SEWER FLUSHING OF LINES FOR THE DEFLECTION TEST SHALL BE PROHIBITED WITHOUT PRIOR APPROVAL FROM THE MUNICIPALITY OR MWRD.
- ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS (LATEST EDITION).
- ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER SYSTEM.
- ALL DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE TO THE STORM SEWER SYSTEM.
- ALL SANITARY SEWER PIPE MATERIALS AND JOINTS (AND STORM SEWER PIPE MATERIALS AND JOINTS IN A COMBINED SEWER AREA) SHALL CONFORM TO THE FOLLOWING:

PIPE MATERIAL	PIPE SPECIFICATIONS	JOINT SPECIFICATIONS
VITRIFIED CLAY PIPE	ASTM C-700	ASTM C-425
REINFORCED CONCRETE SEWER PIPE	ASTM C-76	ASTM C-443
CAST IRON SOIL PIPE	ASTM A-74	ASTM C-564
DUCTILE IRON PIPE	ANSI A21.51	ANSI A21.11
POLYVINYL CHLORIDE (PVC) PIPE 6-INCH TO 15-INCH DIAMETER SDR 26 18-INCH TO 27-INCH DIAMETER F/DY=46	ASTM D-3034 ASTM F-679	ASTM D-3212 ASTM D-3212
HIGH DENSITY POLYETHYLENE (HDPE)	ASTM D-3350 ASTM D-3035	ASTM D-3261,F-2620 (HEAT FUSION) ASTM D-3212,F-477 (GASKETED)
WATER MAIN QUALITY PVC 4-INCH TO 36-INCH 4-INCH TO 12-INCH 14-INCH TO 48-INCH	ASTM D-2241 AWWA C900 AWWA C905	ASTM D-3139 ASTM D-3139 ASTM D-3139

THE FOLLOWING MATERIALS ARE ALLOWED ON A QUALIFIED BASIS SUBJECT TO DISTRICT REVIEW AND APPROVAL PRIOR TO PERMIT ISSUANCE. A SPECIAL CONDITION WILL BE ADDED TO THE PERMIT WHEN THE PIPE MATERIAL BELOW IS USED FOR SEWER CONSTRUCTION OR A CONNECTION IS MADE.

PIPE MATERIAL	PIPE SPECIFICATIONS	JOINT SPECIFICATIONS
POLYPROPYLENE (PP) PIPE		
12-INCH TO 24-INCH DOUBLE WALL	ASTM F-2736	D-3212, F-477
30-INCH TO 60-INCH TRIPLE WALL	ASTM F-2764	D3212, F-477

- ALL SANITARY SEWER CONSTRUCTION (AND STORM SEWER CONSTRUCTION IN COMBINED SEWER AREAS), REQUIRES STONE BEDDING WITH STONE 1/4" TO 1" IN SIZE, WITH MINIMUM BEDDING THICKNESS EQUAL TO 1/4 THE OUTSIDE DIAMETER OF THE SEWER PIPE, BUT NOT LESS THAN FOUR (4) INCHES NOR MORE THAN EIGHT (8) INCHES. MATERIAL SHALL BE CA-7, CA-11 OR CA-13 AND SHALL BE EXTENDED AT LEAST 12" ABOVE THE TOP OF THE PIPE WHEN USING PVC.
- NON-SHEAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPES OF DISSIMILAR PIPE MATERIALS.
- ALL MANHOLES SHALL BE PROVIDED WITH BOLTED, WATERTIGHT COVERS. SANITARY LIDS SHALL BE CONSTRUCTED WITH A CONCEALED PICKHOLE AND WATERTIGHT GASKET WITH THE WORD "SANITARY" CAST INTO THE LID.
- WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR AN EXISTING MANHOLE, ONE OF THE FOLLOWING METHODS SHALL BE USED:
 a) A CIRCULAR SAW-CUT OF SEWER MAIN BY PROPER TOOLS AND PROPER INSTALLATION OF HUBWYE SADDLE OR HUB-TEE SADDLE.
 b) REMOVE AN ENTIRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH SECTION.
 c) WITH PIPE CUTTER, NEATLY AND ACCURATELY CUT OUT DESIRED LENGTH OF PIPE FOR INSERTION OF PROPER FITTING, USING APPROVED COUPLINGS TO HOLD IT FIRMLY IN PLACE.
- WHENEVER A SANITARY/COMBINED SEWER CROSSES UNDER A WATERMAIN, THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATERMAIN SHALL BE 18 INCHES. FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN SANITARY/COMBINED SEWERS AND WATERMANS SHALL BE MAINTAINED UNLESS: THE SEWER IS LAID IN A SEPARATE TRENCH, KEEPING A MINIMUM 18" VERTICAL SEPARATION; OR THE SEWER IS LAID IN THE SAME TRENCH WITH THE WATERMAIN LOCATED AT THE OPPOSITE SIDE ON A BENCH OF UNDISTURBED EARTH, KEEPING A MINIMUM 18" VERTICAL SEPARATION. IF EITHER THE VERTICAL OR HORIZONTAL DISTANCES DESCRIBED CANNOT BE MAINTAINED, OR THE SEWER CROSSES ABOVE THE WATER MAIN, THE SEWER SHALL BE CONSTRUCTED TO WATER MAIN STANDARDS OR IT SHALL BE ENCASED WITH A WATER MAIN QUALITY CARRIER PIPE WITH THE ENDS SEALED.
- ALL EXISTING SEPTIC SYSTEMS SHALL BE ABANDONED. ABANDONED TANKS SHALL BE FILLED WITH GRANULAR MATERIAL OR REMOVED.
- ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES, AND SHALL BE CAST IN PLACE OR PRE-CAST REINFORCED CONCRETE.
- ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE PRECAST "RUBBER BOOTS" THAT CONFORM TO ASTM C-923 FOR ALL PIPE CONNECTIONS. PRECAST SECTIONS SHALL CONSIST OF MODIFIED GROOVE TONGUE AND RUBBER GASKET TYPE JOINTS.
- ALL ABANDONED SANITARY SEWERS SHALL BE PLUGGED AT BOTH ENDS WITH AT LEAST 2 FEET LONG NON-SHRINK CONCRETE OR MORTAR PLUG.
- EXCEPT FOR FOUNDATION/FOOTING DRAINS PROVIDED TO PROTECT BUILDINGS, OR PERFORATED PIPES ASSOCIATED WITH VOLUME CONTROL FACILITIES, DRAIN TILES/FIELD TILES/UNDERDRAINS/PERFORATED PIPES ARE NOT ALLOWED TO BE CONNECTED TO OR TRIBUTARY TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS IN COMBINED SEWER AREAS. CONSTRUCTION OF NEW FACILITIES OF THIS TYPE IS PROHIBITED; AND ALL EXISTING DRAIN TILES AND PERFORATED PIPES ENCOUNTERED WITHIN THE PROJECT AREA SHALL BE PLUGGED OR REMOVED, AND SHALL NOT BE CONNECTED TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS.
- A BACKFLOW PREVENTER IS REQUIRED FOR ALL DETENTION BASINS TRIBUTARY TO COMBINED SEWERS. REQUIRED BACKFLOW PREVENTERS SHALL BE INSPECTED AND EXERCISED ANNUALLY BY THE PROPERTY OWNER TO ENSURE PROPER OPERATION, AND ANY NECESSARY MAINTENANCES SHALL BE PERFORMED TO ENSURE FUNCTIONALITY. IN THE EVENT OF A SEWER SURCHARGE INTO AN OPEN DETENTION BASIN TRIBUTARY TO COMBINED SEWERS, THE PERMITTEE SHALL ENSURE THAT CLEAN UP AND WASH OUT OF SEWAGE TAKES PLACE WITHIN 48 HOURS OF THE STORM EVENT.

E. EROSION AND SEDIMENT CONTROL

- THE CONTRACTOR SHALL INSTALL THE EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
- EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE FUNCTIONAL PRIOR TO HYDROLOGIC DISTURBANCE OF THE SITE.
- ALL DESIGN CRITERIA, SPECIFICATIONS, AND INSTALLATION OF EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL.
- A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- INSPECTIONS AND DOCUMENTATION SHALL BE PERFORMED, AT A MINIMUM:
 a) UPON COMPLETION OF INITIAL EROSION AND SEDIMENT CONTROL MEASURES, PRIOR TO ANY SOIL DISTURBANCE.
 b) ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT WITH GREATER THAN 0.5 INCH OF RAINFALL OR LIQUID EQUIVALENT PRECIPITATION.
- SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. IF STRIPPING, CLEARING, GRADING, OR LANDSCAPING ARE TO BE DONE IN PHASES, THE CO-PERMITTEE SHALL PLAN FOR APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL MEASURES.
- A STABILIZED MAT OF CRUSHED STONE MEETING THE STANDARDS OF THE ILLINOIS URBAN MANUAL SHALL BE INSTALLED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE. SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
- CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL AND SHALL BE INSTALLED PRIOR TO ANY ON SITE CONSTRUCTION ACTIVITIES INVOLVING CONCRETE.
- MORTAR WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ADDITION TO CONCRETE WASHOUT FACILITIES FOR ANY BRICK AND MORTAR BUILDING ENVELOPE CONSTRUCTION ACTIVITIES.
- TEMPORARY DIVERSIONS SHALL BE CONSTRUCTED AS NECESSARY TO DIRECT ALL RUNOFF FROM HYDROLOGICALLY DISTURBED AREAS TO AN APPROPRIATE SEDIMENT TRAP OR BASIN. VOLUME CONTROL FACILITIES SHALL NOT BE USED AS TEMPORARY SEDIMENT BASINS.
- DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) DAYS.
- ALL FLOOD PROTECTION AREAS AND VOLUME CONTROL FACILITIES SHALL, AT A MINIMUM, BE PROTECTED WITH A DOUBLE-ROW OF SILT FENCE (OR EQUIVALENT).
- VOLUME CONTROL FACILITIES SHALL NOT BE CONSTRUCTED UNTIL ALL OF THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.
- SOIL STOCKPILES SHALL, AT A MINIMUM, BE PROTECTED WITH PERIMETER SEDIMENT CONTROLS. SOIL STOCKPILES SHALL NOT BE PLACED IN FLOOD PROTECTION AREAS OR THEIR BUFFERS.
- EARTHEN EMBANKMENT SIDE SLOPES SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL BLANKET.
- STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY APPROPRIATE SEDIMENT CONTROL MEASURES.
- THE CONTRACTOR SHALL EITHER REMOVE OR REPLACE ANY EXISTING DRAIN TILES AND INCORPORATE THEM INTO THE DRAINAGE PLAN FOR THE DEVELOPMENT. DRAIN TILES CANNOT BE TRIBUTARY TO A SANITARY OR COMBINED SEWER. DRAIN TILES ALLOWED IN COMBINED SEWER AREA FOR GREEN INFRASTRUCTURE PRACTICES.
- IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. DEWATERING SYSTEMS SHOULD BE INSPECTED DAILY DURING OPERATIONAL PERIODS. THE SITE INSPECTOR MUST BE PRESENT AT THE COMMENCEMENT OF DEWATERING ACTIVITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRENCH DEWATERING AND EXCAVATION FOR THE INSTALLATION OF SANITARY SEWERS, STORM SEWERS, WATERMANS AS WELL AS THEIR SERVICES AND OTHER APPURTENANCES. ANY TRENCH DEWATERING, WHICH CONTAINS SEDIMENT SHALL PASS THROUGH A SEDIMENT SETTLING POND OR EQUALLY EFFECTIVE SEDIMENT CONTROL DEVICE. ALTERNATIVES MAY INCLUDE DEWATERING INTO A SUMP PIT, FILTER BAG OR EXISTING VEGETATED UPSLOPE AREA. SEDIMENT LADEN WATERS SHALL NOT BE DISCHARGE TO WATERWAYS, FLOOD PROTECTION AREAS OR THE COMBINED SEWER SYSTEM.
- ALL PERMANENT EROSION CONTROL PRACTICES SHALL BE INITIATED WITHIN SEVEN (7) DAYS FOLLOWING THE COMPLETION OF SOIL DISTURBING ACTIVITIES.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AND REPAIRED AS NEEDED ON A YEAR-ROUND BASIS DURING CONSTRUCTION AND ANY PERIODS OF CONSTRUCTION SHUTDOWN UNTIL PERMANENT STABILIZATION IS ACHIEVED.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER PERMANENT SITE STABILIZATION.
- THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER, SITE INSPECTOR, OR MWRD.



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DATE -- 11-7-24	REVISED --

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

M.W.R.D.G.C. GENERAL NOTES

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1694/1408	21-00134-00-RS	COOK	68	4
CONTRACT NO. 61K86			FED. AID PROJECT	

Drawing No. 10/20/2014, 21-00134-00-RS - Resurfacing and 3RD Year of State IFC Summary of Quantities - Nov 04, 2014 - 7:48pm

S.I.	Code No.	Item	Unit	Total Quantity	CONSTRUCTION CODE		
					STP FUNDS		
					80% FEDERAL / 20% LOCAL		
					ROADWAY	LIGHTING	TRAINEES
0005	0021	0042					
URBAN	URBAN	URBAN					
	20101100	TREE TRUNK PROTECTION	EACH	40	40		
X	20101200	TREE ROOT PRUNING	EACH	8	8		
	20200100	EARTH EXCAVATION	CU YD	1050	1050		
	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	60	60		
	20800150	TRENCH BACKFILL	CU YD	325	325		
	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	2500	2500		
	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	50	50		
	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	50	50		
	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	50	50		
	25200110	SODDING, SALT TOLERANT	SQ YD	2500	2500		
	25200200	SUPPLEMENTAL WATERING	UNIT	25	25		
	28000510	INLET FILTERS	EACH	82	82		
	30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	60	60		
	35300060	PORTLAND CEMENT CONCRETE BASE COURSE, 4"	SQ YD	750	750		
	35800200	AGGREGATE BASE REPAIR	TON	950	950		
	40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	35	35		

X SPECIALTY ITEM



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NONE SHEET NO. 1 OF 10 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
10001000	21-00134-00-RS	COOK	68	5
FED. ROAD DIST. NO. 1 ILLINOIS		CONTRACT NO. E1K06		
FED. AID PROJECT		E.H.E. PROJECT NO. 1252100501		

Drawing file: W:\Projects_by_Village\Breakfast\12521005 - Breakfast And 3700 Back of Grand LCA\Summary of Quantities.dwg Nov 08, 2024 - 7:48pm

S.I.	Code No.	Item	Unit	Total Quantity	CONSTRUCTION CODE		
					STP FUNDS		
					80% FEDERAL / 20% LOCAL		
					ROADWAY	LIGHTING	TRAINEES
0005	0021	0042					
URBAN	URBAN	URBAN					
	40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	14500	14500		
	40600370	LONGITUDINAL JOINT SEALANT	FOOT	10250	10250		
	40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	25	25		
	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	400	400		
	40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SQ YD	25	25		
	40602978	HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N50	TON	2400	2400		
	40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	2750	2750		
	40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	15	15		
	42000300	PORTLAND CEMENT CONCRETE PAVEMENT 8"	SQ YD	100	100		
	42001300	PROTECTIVE COAT	SQ YD	3000	3000		
	42300300	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH	SQ YD	175	175		
	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	26000	26000		
	42400800	DETECTABLE WARNINGS	SQ FT	335	335		
	44000100	PAVEMENT REMOVAL	SQ YD	100	100		
	44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	175	175		
	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	2250	2250		

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NONE SHEET NO. 2 OF 10 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
18941408	21-00134-00-RS	COOK	68	6
FED. ROAD DIST. NO. 1 ILLINOIS		CONTRACT NO. 61X06		
FED. AID PROJECT		E.H.E. PROJECT NO. 1252100501		

Drawing File: \\projects\by\vince\brockford\12521005 - Brookfield And 3700 Block of Grand LAFD\Summary of Quantities.dwg Rev. 08. 2024 - 7/4/20

S.I.	Code No.	Item	Unit	Total Quantity	CONSTRUCTION CODE		
					STP FUNDS		
					80% FEDERAL / 20% LOCAL		
					ROADWAY	LIGHTING	TRAINEES
	0005	0021	0042				
	URBAN	URBAN	URBAN				
	44000600	SIDEWALK REMOVAL	SQ FT	29250	29250		
	44200929	CLASS B PATCHES, TYPE I, 8 INCH	SQ YD	125	125		
	44200934	CLASS B PATCHES, TYPE II, 8 INCH	SQ YD	225	225		
	44200942	CLASS B PATCHES, TYPE III, 8 INCH	SQ YD	325	325		
	44200944	CLASS B PATCHES, TYPE IV, 8 INCH	SQ YD	425	425		
	44201713	CLASS D PATCHES, TYPE I, 6 INCH	SQ YD	150	150		
	44201717	CLASS D PATCHES, TYPE II, 6 INCH	SQ YD	275	275		
	44201721	CLASS D PATCHES, TYPE III, 6 INCH	SQ YD	400	400		
	44201723	CLASS D PATCHES, TYPE IV, 6 INCH	SQ YD	525	525		
	44213200	SAW CUTS	FOOT	4750	4750		
	44213202	TIE BARS 1"	EACH	1300	1300		
	550B0330	STORM SEWERS, CLASS B, TYPE 2, 10"	FOOT	10	10		
	56500600	DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED	EACH	10	10		
	60108106	PIPE UNDERDRAINS, TYPE 1, 6"	FOOT	1450	1450		
	60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1	1		
	60206905	CATCH BASINS, TYPE C, TYPE 1 FRAME, OPEN LID	EACH	1	1		

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NONE SHEET NO. 3 OF 10 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1694/1406	21-00134-00-RS	COOK	68	7
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 61K86	
FED. AID PROJECT			E.N.E. PROJECT NO. 1252100501	

Drawing file: W:\Projects_by_Village\Brossfield\12521005 - Brossfield And 3700 Bross of Grand LATA\Summary of Quantities.dwg Rev 08. 2024 - 7:46am

S.I.	Code No.	Item	Unit	Total Quantity	CONSTRUCTION CODE		
					STP FUNDS		
					80% FEDERAL / 20% LOCAL		
					ROADWAY	LIGHTING	TRAINEES
0005	0021	0042					
URBAN	URBAN	URBAN					
	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1		
	60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	EACH	1	1		
	60250400	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, OPEN LID	EACH	2	2		
	60248900	VALVE VAULTS, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1		
	60255800	MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	2	2		
	60257900	MANHOLES TO BE RECONSTRUCTED	EACH	3	3		
	60265900	VALVE VAULTS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	1	1		
	60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	37	37		
	60600605	CONCRETE CURB, TYPE B	FOOT	200	200		
	60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	125	125		
	60604100	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (MODIFIED)	FOOT	2000	2000		
X	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	350	350		
X	66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1		
X	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1		
X	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1		
X	66901006	REGULATED SUBSTANCES MONITORING	CAL DA	5	5		

X SPECIALTY ITEM



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CHECKED - -	REVISED - -
DATE - 11-7-24	REVISED - -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NONE SHEET NO. 4 OF 10 SHEETS STA. TO STA.

F.A.U. RTE. 1694/1406	SECTION 21-00134-00-RS	COUNTY COOK	TOTAL SHEETS 68	SHEET NO. 8
CONTRACT NO. 61K86			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

Drawing file: W:\Projects_by_Village\Breakfast\12521005 - Breakfast And 3700 Block of Grand L50 Summary of Quantities.dwg Rev 08, 2024 - 7:46pm

S.I.	Code No.	Item	Unit	Total Quantity	CONSTRUCTION CODE		
					STP FUNDS		
					80% FEDERAL / 20% LOCAL		
					ROADWAY	LIGHTING	TRAINEES
0005	0021	0042					
URBAN	URBAN	URBAN					
	67100100	MOBILIZATION	L SUM	1	1		
	70107025	CHANGEABLE MESSAGE SIGN	CAL DA	60	60		
X	70300100	SHORT TERM PAVEMENT MARKING	FOOT	4250	4250		
X	70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	1500	1500		
X	72000100	SIGN PANEL - TYPE 1	SQ FT	625	625		
X	72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	350	350		
X	72900100	METAL POST - TYPE A	FOOT	550	550		
X	72900200	METAL POST - TYPE B	FOOT	600	600		
X	73100100	BASE FOR TELESCOPING STEEL SIGN SUPPORT	EACH	35	35		
X	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	150	150		
X	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	20750	20750		
X	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1300	1300		
X	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	575	575		
X	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	350	350		
X	78300201	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	300	300		
X	80400100	ELECTRIC SERVICE INSTALLATION	EACH	2		2	

X SPECIALTY ITEM



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CHECKED --	REVISION --
DATE -- 11-7-24	REVISION --

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NONE SHEET NO. 6 OF 10 SHEETS STA. TO STA.

F.A.U. RTE. 1694/1408	SECTION 21-00134-00-RS	COUNTY COOK	TOTAL SHEETS 68	SHEET NO. 9
FED. ROAD DIST. NO. 1 ILLINOIS		CONTRACT NO. 61K86 FED. AID PROJECT		

E.H.E. PROJECT NO. 1252100501

Drawing: I:\Projects\21-00134\21-00134-00-RS - Breakdown And Sums of Quantities.dwg Date: 11/24/2024 11:45:10 AM

S.I.	Code No.	Item	Unit	Total Quantity	CONSTRUCTION CODE		
					STP FUNDS		
					80% FEDERAL / 20% LOCAL		
					ROADWAY	LIGHTING	TRAINEES
0005	0021	0042					
	URBAN	URBAN	URBAN				
X	80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1		1	
X	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	250		250	
X	81028250	UNDERGROUND CONDUIT, GALVANIZED STEEL, 5" DIA.	FOOT	250		250	
X	81400100	HANDHOLE	EACH	2		2	
X	81400300	DOUBLE HANDHOLE	EACH	3		3	
X	81603051	UNIT DUCT, 600V, 3-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1 1/4" DIA.	FOOT	5150		5150	
X	81603598	UNIT DUCT, 600V, 6-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1 1/2" DIA.	FOOT	1500		1500	
X	81702400	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 2	FOOT	50		50	
X	82500350	LIGHTING CONTROLLER, BASE MOUNTED, 240VOLT, 100AMP	EACH	1		1	
X	82500370	LIGHTING CONTROLLER, BASE MOUNTED, 240VOLT, 200AMP	EACH	1		1	
X	83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	285		285	
X	84200600	REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	37		37	
X	84200804	REMOVAL OF POLE FOUNDATION	EACH	37		37	
X	89502380	REMOVE EXISTING HANDHOLE	EACH	5		5	
	X0323868	DRAINAGE RESTRICTOR	EACH	6	6		
	X0324050	BOLLARD, LED	EACH	4		4	

X SPECIALTY ITEM



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DATE - 11-7-24	REVISED - -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. 6 OF 10 SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
16941400	21-00134-00-RS	COOK	58	10
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 61K86	
FED. AID PROJECT				

E.H.E. PROJECT NO. 1262100501

Drawing file: W:\Projects_Village\Brockfield\12521005 - Brockfield And 3700 Block of Grand LAGO\SUMMARY OF QUANTITIES.DWG Dec 04, 2024 - 2:34pm

S.I.	Code No.	Item	Unit	Total Quantity	CONSTRUCTION CODE		
					STP FUNDS		
					80% FEDERAL / 20% LOCAL		
					ROADWAY	LIGHTING	TRAINEES
0005	0021	0042					
URBAN	URBAN	URBAN					
	X0327611	REMOVE AND REINSTALL BRICK PAVER	SQ FT	3350	3350		
	X1200046	STORM SEWERS, CLASS B, TYPE 2, 8"	FOOT	55	55		
	X1200160	CONNECTION TO EXISTING DRAINAGE STRUCTURE	EACH	2	2		
X	X1400210	LIGHT POLE, SPECIAL, 12'	EACH	50		50	
	X2530008	TREE GRATES	EACH	23	23		
	X2530009	TREE GRATE REMOVAL	EACH	9	9		
	X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	25	25		
	X4240430	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH, SPECIAL	SQ FT	750	750		
	X4240800	DETECTABLE WARNINGS (SPECIAL)	SQ FT	50	50		
	X4400100	PORTLAND CEMENT CONCRETE SURFACE REMOVAL (VARIABLE DEPTH)	SQ YD	250	250		
	X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	21500	21500		
	X4420210	TEMPORARY PATCHING	SQ YD	250	250		
	X5510010	STORM SEWER CONNECTION	EACH	2	2		
	X5610001	CLEANOUTS	EACH	6	6		
	X6020399	CONNECTION TO EXISTING MANHOLE	EACH	5	5		

X SPECIALTY ITEM



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NONE SHEET NO. 7 OF 10 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1694/1400	21-00134-00-RS	COOK	68	11
FED. ROAD DIST. NO. 1 ILLINOIS		CONTRACT NO. 61K86 FED. AID PROJECT		

E.H.E. PROJECT NO. 1252100501

Drawing file: W:\Projects_by_Village\Brookfield\12521005 - Brookfield And 3700 Block of Grand LAFD\Summary of Quantities.dwg Dec 04, 2024 - 2:29pm

S.I.	Code No.	Item	Unit	Total Quantity	CONSTRUCTION CODE		
					STP FUNDS		
					80% FEDERAL / 20% LOCAL		
					ROADWAY	LIGHTING	TRAINEES
0005	0021	0042					
URBAN	URBAN	URBAN					
	X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	45	45		
	X6640104	FENCE REMOVAL	FOOT	250	250		
	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1		
	X7240600	REMOVE AND RE-ERECT EXISTING SIGN	EACH	45	45		
	XX000541	EXPLORATORY EXCAVATION	CU YD	100	100		
X	XX003803	SANITARY SEWER SERVICE 6"	FOOT	36	36		
	XX004688	BRICK PAVER SIDEWALK	SQ FT	3500	3500		
	XX005283	BRICK PAVER CROSSWALK	SQ FT	200	200		
	XX005634	12" X 6" PVC SEWER SERVICE CONNECTIONS	EACH	5	5		
X	XX006449	PVC COMBINED SEWER PIPE REPLACEMENT, 12"	FOOT	38	38		
X	XX006450	PVC COMBINED SEWER PIPE REPLACEMENT, 15"	FOOT	64	64		
X	XX006452	15" X 6" PVC SEWER SERVICE CONNECTIONS	EACH	2	2		
X	XX006834	ELECTRICAL CONNECTION TO EXISTING LIGHTING SYSTEM	EACH	3		3	
	XX006994	8" X 4" CATCH BASIN TRAP AND RESTRICTOR	EACH	9	9		
	XX007079	CONCRETE RIBBON	FOOT	600	600		

X SPECIALTY ITEM



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CHECKED --	REVISED --
DATE -- 12-4-24	REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES	
SCALE: NONE	TO STA.
SHEET NO. 8 OF 10 SHEETS	STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
169A/3403	21-00134-00-RS	COOK	68	12
FED. ROAD DIST. NO. 1 ILLINOIS		CONTRACT NO. 61K86		
FED. AID PROJECT		E.H.E. PROJECT NO. 1252100501		

D:\Projects\By_Village\Brookfield\2201005 - Brookfield And 3700 Block of Grand Ave\Summary of Quantities.dwg Dec 04, 2024 - 2:28pm

S.I.	Code No.	Item	Unit	Total Quantity	CONSTRUCTION CODE		
					STP FUNDS		
					80% FEDERAL / 20% LOCAL		
					ROADWAY	LIGHTING	TRAINEES
0005	0021	0042					
					URBAN	URBAN	URBAN
X	XX007203	24" X 6" PVC SEWER SERVICE CONNECTIONS	EACH	2	2		
	XX007729	DETECTABLE WARNINGS, SPECIAL	SQ FT	50	50		
	XX007899	MASONRY WALL	FOOT	30	30		
	XX008159	PORTLAND CEMENT CONCRETE BAND FOR PAVER BRICKS	FOOT	65	65		
X	XX008284	ORNAMENTAL LIGHT POLE, ALUMINUM, WITH CONTEMPORARY ARM	EACH	4		4	
	XX008356	STRUCTURAL SOIL	CU YD	1150	1150		
	XX008536	PREPARATION OF BASE (SPECIAL)	SQ YD	12250	12250		
X	XX008994	COMBINED SEWERS, CLASS B, TYPE 3, 24"	FOOT	132	132		
	XX009601	10" X 6" CATCH BASIN TRAP AND RESTRICTOR	EACH	4	4		
	Z0004544	HOT-MIX ASPHALT DRIVEWAY PAVEMENT REMOVAL	SQ YD	50	50		
	Z0018700	DRAINAGE STRUCTURE TO BE REMOVED	EACH	1	1		
	Z0019600	DUST CONTROL WATERING	UNIT	50	50		
	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	175	175		
X	Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	9		9	
	Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1		

X SPECIALTY ITEM



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CHECKED --	REVISED --
DATE -- 12-4-24	REVISED --

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NONE SHEET NO. 9 OF 10 SHEETS STA. TO STA.

F.A.D. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1694/1408	21-00134-00-RS	COOK	68	13
CONTRACT NO. 61K86			FED. AID PROJECT	
FED. ROAD DIST. NO. 1 ILLINOIS			E.H.E. PROJECT NO. 1252100501	

Drawing file: W:\Projects_By_Village\Roads\12521005 - Breakfield And 3700 Block of Grand LAGO\Ssummary of Quantities.dwg Dec 04, 2024 - 2:27pm

S.I.	Code No.	Item	Unit	Total Quantity	CONSTRUCTION CODE		
					STP FUNDS		
					80% FEDERAL / 20% LOCAL		
					ROADWAY	LIGHTING	TRAINEES
0005	0021	0042					
URBAN	URBAN	URBAN					
	Z0076600	TRAINEES	HOUR	500			500
	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500			500
	XX009689	STORM SEWERS, CLASS B, TYPE 2, 6"	FOOT	30	30		
X	XX009690	CHECK VALVE, 8"	EACH	2	2		

X SPECIALTY ITEM



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DATE -- 12-4-24	REVISD --

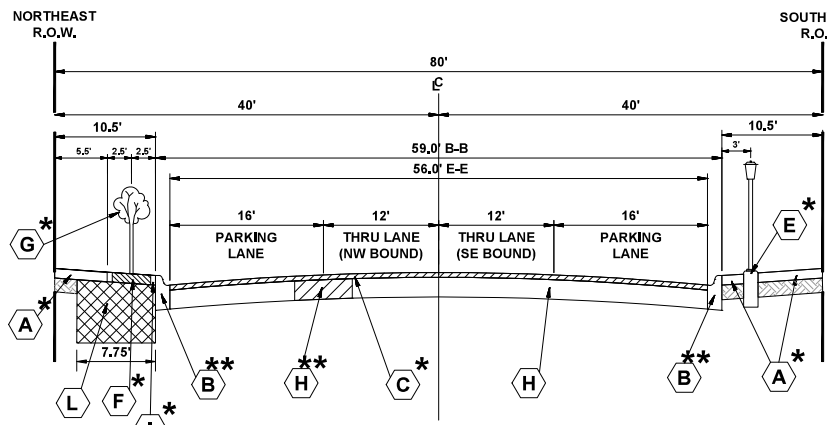
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. 10 OF 10 SHEETS | STA. TO STA.

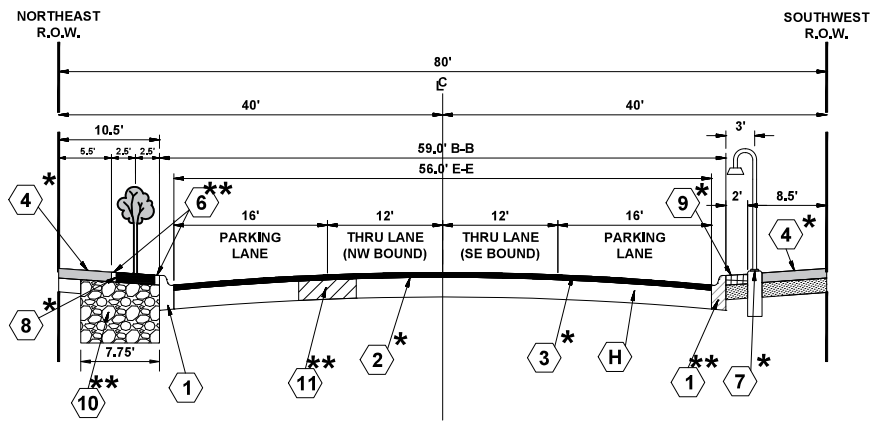
F.A.U. RTE. 1634/1409	SECTION 21-00134-00-RS	COUNTY	TOTAL SHEETS 68	SHEET NO. 14
FED. ROAD DIST. NO. 1 ILLINOIS		CONTRACT NO. 61K86	FED. AID PROJECT	

E.H.E. PROJECT NO. 1252100501



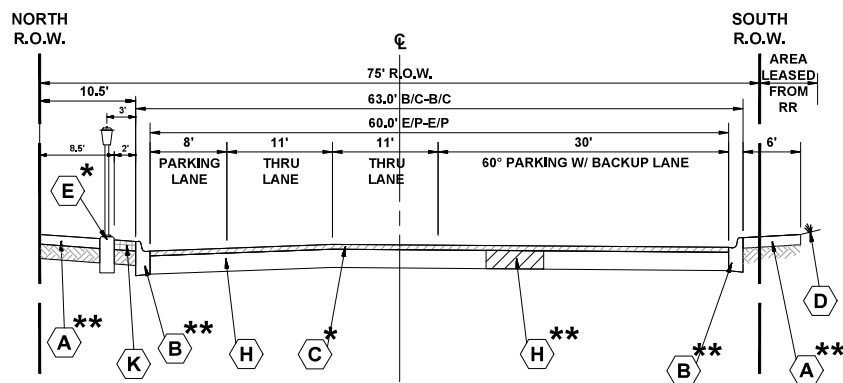
**EXISTING TYPICAL SECTION
GRAND BOULEVARD
(STA 0+75 TO STA 8+63)**

* ITEM TO BE REMOVED
** INTERMITTENT REMOVAL



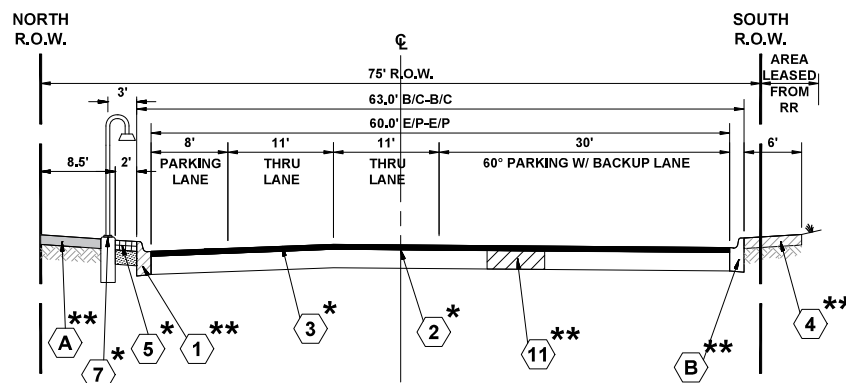
**PROPOSED TYPICAL SECTION
GRAND BOULEVARD
(STA 0+75 TO STA 8+63)**

* ITEM TO BE REMOVED
** INTERMITTENT REMOVAL



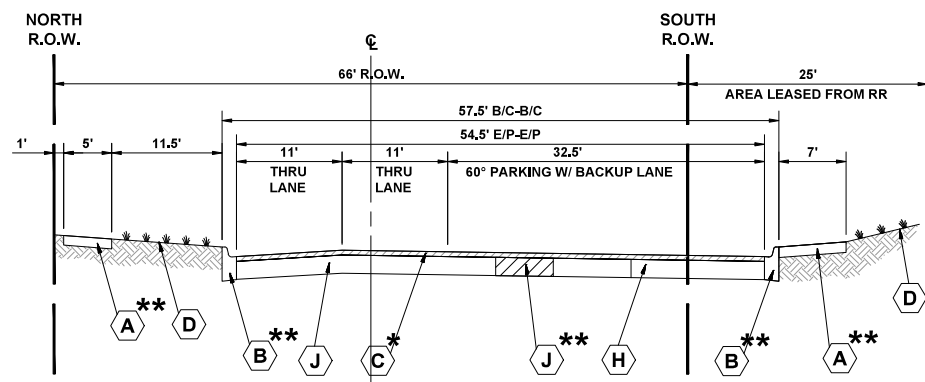
**EXISTING TYPICAL SECTION
BROOKFIELD AVENUE
(STA 9+85 TO STA 13+62)**

* ITEM TO BE REMOVED
** INTERMITTENT REMOVAL



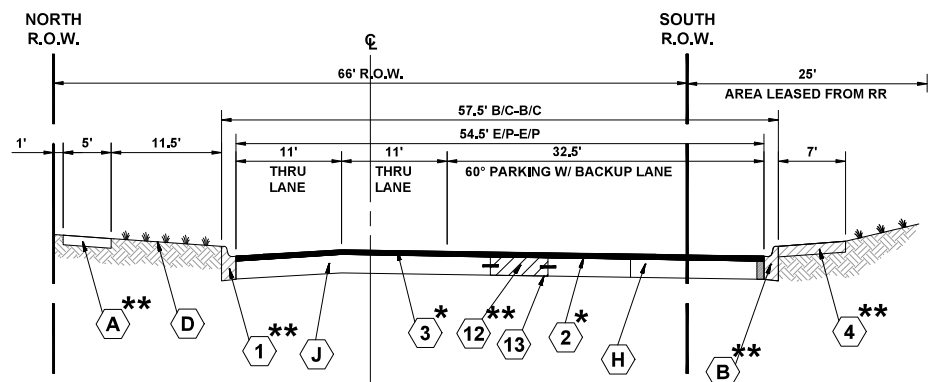
**PROPOSED TYPICAL SECTION
BROOKFIELD AVENUE
(STA 9+85 TO STA 13+62)**

* ITEM TO BE REMOVED
** INTERMITTENT REMOVAL



**EXISTING TYPICAL SECTION
BROOKFIELD AVENUE
(STA 19+52 TO STA 23+08)**

* ITEM TO BE REMOVED
** INTERMITTENT REMOVAL



**PROPOSED TYPICAL SECTION
BROOKFIELD AVENUE
(STA 19+52 TO STA 23+08)**

* ITEM TO BE REMOVED
** INTERMITTENT REMOVAL

TYPICAL SECTION LEGEND

- | EXISTING | | PROPOSED | |
|----------|---|-----------|--|
| A | PORTLAND CEMENT CONCRETE SIDEWALK, 5" | 1 | COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6,12 (MODIFIED) |
| B | EXISTING COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6,12 (MODIFIED) | 2 | HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N50, 1.5" |
| C | HOT-MIX ASPHALT BINDER AND SURFACE COURSE, 2" - 4" | 3 | HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, N50, 2" |
| D | SODDED PARKWAY | 4 | PORTLAND CEMENT CONCRETE SIDEWALK, 5" |
| E | 15' POST TOP LIGHT POLE | 5 | REMOVE AND RESET BRICK PAVERS |
| F | 4' x 4' TREE GRATE | 6 | PORTLAND CEMENT CONCRETE RIBBON CURB |
| G | TREE | 7 | PENDENT LIGHT WITH 2' MAST ARM |
| H | AGGREGATE BASE COURSE, ± 12" | 8 | 4' x 4' TREE GRATE |
| I | PORTLAND CEMENT CONCRETE RIBBON CURB | 9 | BRICK PAVER SIDEWALK |
| J | PORTLAND CEMENT CONCRETE BASE COURSE, ± 8" | 10 | STRUCTURAL SOIL |
| K | BRICK PAVER SIDEWALK | 11 | CLASS D PATCH |
| L | EARTH EXCAVATION | 12 | CLASS B PATCH |
| M | CONCRETE BARRIER CURB | 13 | DEFORMED TIE BARS |

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ Ndes	QMP
HOT-MIX ASPHALT SURFACING - BUTT JOINT		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2" (IL 9.5mm)	4% @ 50 Gyr.	LR 1030-2
INCIDENTAL HOT-MIX ASPHALT SURFACING - HMA DRIVEWAYS		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 3" (2 LIFTS) (IL 9.5mm)	4% @ 50 Gyr.	LR 1030-2
PAVEMENT RESURFACING		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2" (IL 9.5mm)	4% @ 50 Gyr.	LR 1030-2
HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N50, 1.5"	4% @ 50 Gyr.	LR 1030-2
TEMPORARY PATCHING		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2" (IL 9.5 MM)	4% @ 50 Gyr.	LR 1030-2
QMP DESIGNATION: QUALITY CONTROL/ QUALITY ASSURANCE (QC/QA) PER LR1030-2.		
CLASS D PATCHING		
HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N50, 6" (IL 9.5 MM)	4% @ 50 Gyr.	LR 1030-2
QMP DESIGNATION: QUALITY CONTROL/ QUALITY ASSURANCE (QC/QA) PER LR1030-2.		

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.
 THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATIONS.
 THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED ON THE HMA BINDER COURSE: HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N50, 1.5".

Drawing file: W:\Projects_by_Village\Brookfield\1251005 - Brookfield And 3700 Block of Grand LRD Typical Sections.dwg Nov 06, 2024 - 7:59am

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DRAWN	ECW, SB, GD, DMM, LW	REVISED	- -
CHECKED	- -	REVISED	- -
DATE	11-7-24	REVISED	- -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING AND PROPOSED TYPICAL SECTIONS

SCALE: NONE SHEET NO. 1 OF 4 SHEETS STA. - TO STA. -

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1694/1408	21-00134-00-RS	COOK	68	15
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 61K86	
FED. AID PROJECT			E.H.E. PROJECT NO. 125100501	

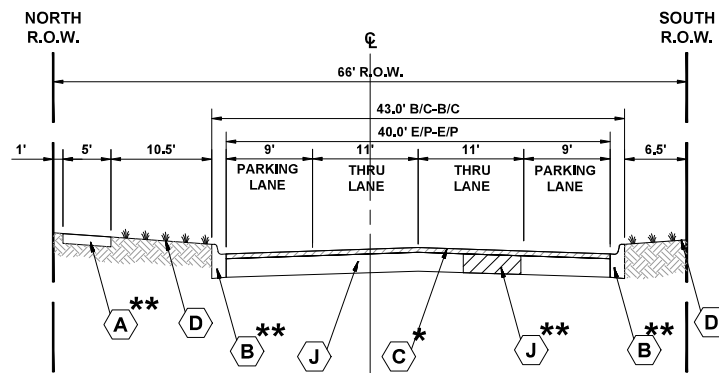
TYPICAL SECTION LEGEND

EXISTING

- A** PORTLAND CEMENT CONCRETE SIDEWALK, 5"
- B** EXISTING COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (MODIFIED)
- C** HOT-MIX ASPHALT BINDER AND SURFACE COURSE, 2" - 4"
- D** SODDED PARKWAY
- E** 15' POST TOP LIGHT POLE
- F** 4' x 4' TREE GRATE
- G** TREE
- H** AGGREGATE BASE COURSE, ± 12"
- I** PORTLAND CEMENT CONCRETE RIBBON CURB
- J** PORTLAND CEMENT CONCRETE BASE COURSE, ± 8"
- K** BRICK PAVER SIDEWALK
- L** EARTH EXCAVATION
- M** CONCRETE BARRIER CURB

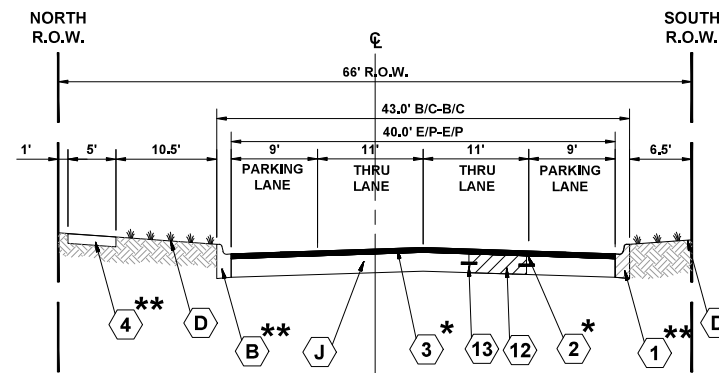
PROPOSED

- 1** COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (MODIFIED)
- 2** HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N50, 1.5"
- 3** HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, N50, 2"
- 4** PORTLAND CEMENT CONCRETE SIDEWALK, 5"
- 5** REMOVE AND RESET BRICK PAVERS
- 6** PORTLAND CEMENT CONCRETE RIBBON CURB
- 7** PENDENT LIGHT WITH 2' MAST ARM
- 8** 4' x 4' TREE GRATE
- 9** BRICK PAVER SIDEWALK
- 10** STRUCTURAL SOIL
- 11** CLASS D PATCH
- 12** CLASS B PATCH
- 13** DEFORMED TIE BARS



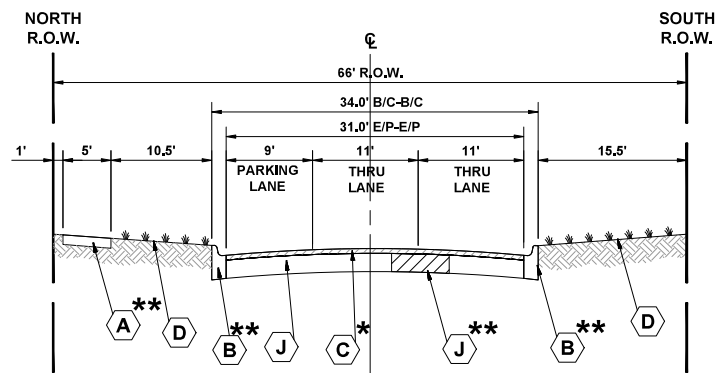
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BROOKFIELD AVENUE
(STA 23+08 TO STA 29+64)**

* ITEM TO BE REMOVED
** INTERMITTEMT REMOVAL



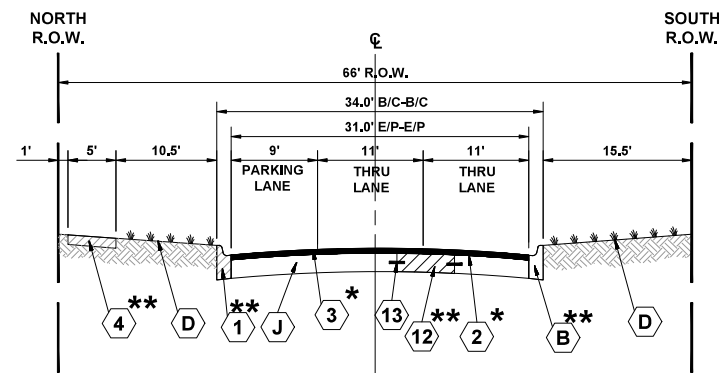
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BROOKFIELD AVENUE
(STA 23+08 TO STA 29+64)**

* ITEM TO BE REMOVED
** INTERMITTEMT REMOVAL



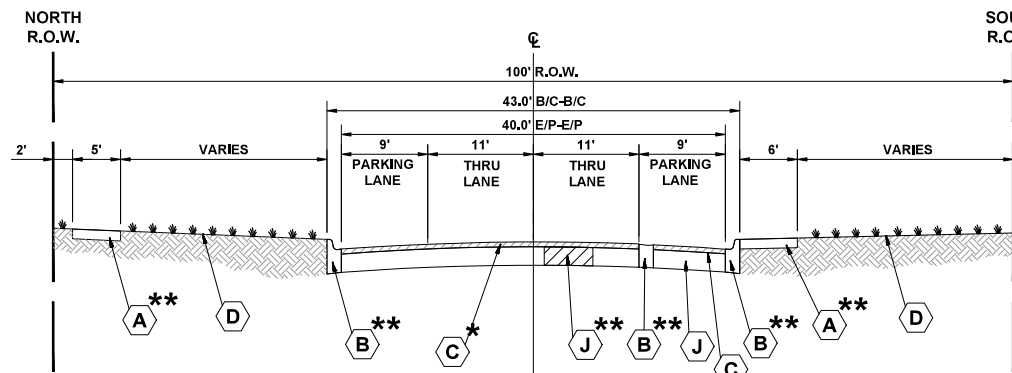
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BROOKFIELD AVENUE
(STA 29+64 TO STA 33+28)**

* ITEM TO BE REMOVED
** INTERMITTEMT REMOVAL



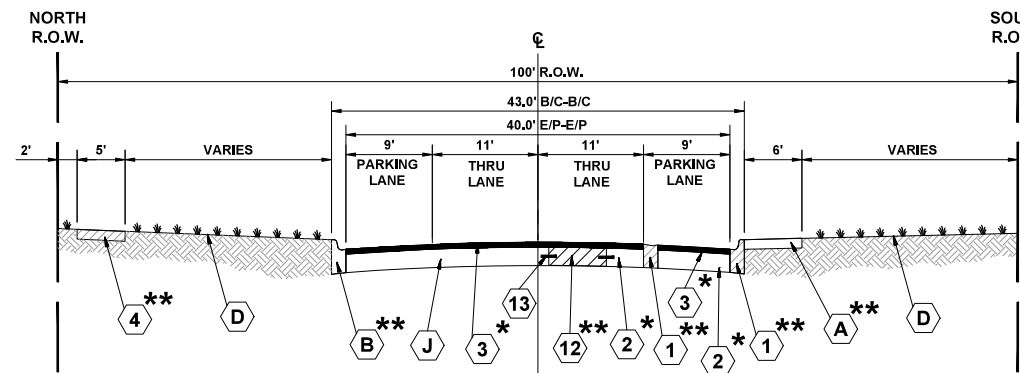
**PROPOSED TYPICAL SECTION
BROOKFIELD AVENUE
(STA 29+64 TO STA 33+28)**

* ITEM TO BE REMOVED
** INTERMITTEMT REMOVAL



**EXISTING TYPICAL SECTION
BROOKFIELD AVENUE
(STA 33+28 TO STA 35+88)**

* ITEM TO BE REMOVED
** INTERMITTEMT REMOVAL



**PROPOSED TYPICAL SECTION
BROOKFIELD AVENUE
(STA 33+28 TO STA 35+88)**

* ITEM TO BE REMOVED
** INTERMITTEMT REMOVAL

Drawing file: W:\Projects_by_Village\Brookfield\12521005 - Brookfield And 3700 Block of Grand LAFD Typical Sections.dwg Nov 06, 2024 - 7:59am

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 www.hancock.com

◆ Civil Engineers
 ◆ Municipal Consultants
 ◆ Established 1911

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DRAWN - ECW, SB, GD, DMM, LW	REVISD - -
CHECKED - -	REVISD - -
DATE - 11-7-24	REVISD - -

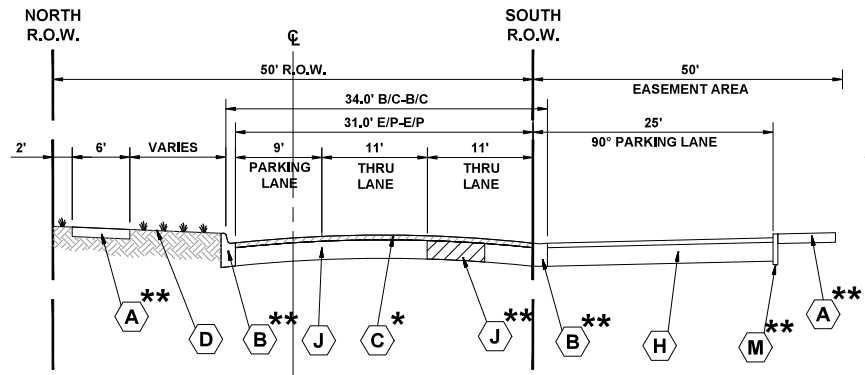
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING AND PROPOSED TYPICAL SECTIONS

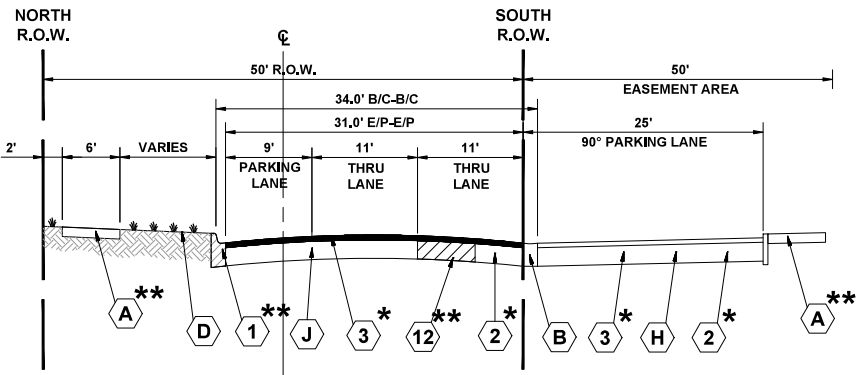
SCALE: NONE SHEET NO. 2 OF 4 SHEETS STA. - TO STA. -

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1694/1408	21-00134-00-RS	COOK	68	16
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 61K86	
FED. AID PROJECT				

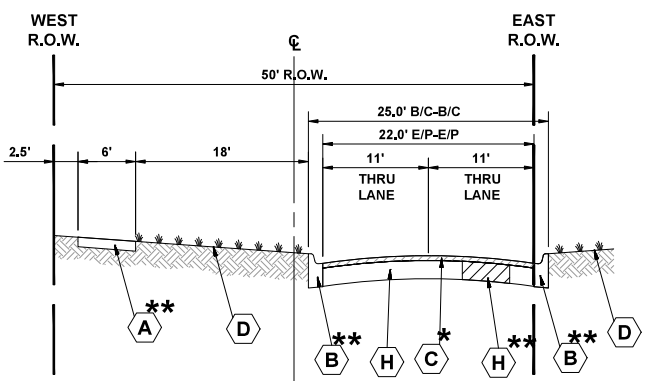
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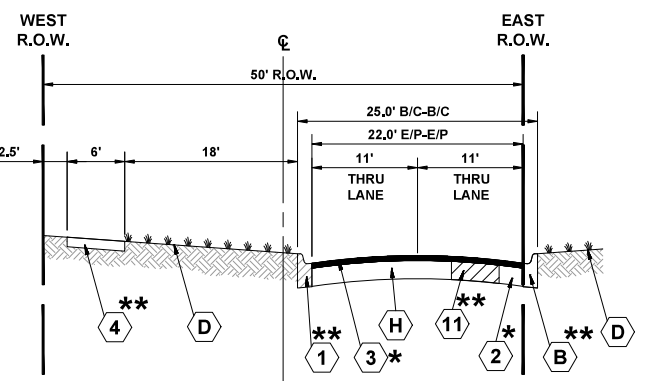
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BROOKFIELD AVENUE
(STA 35+88 TO STA 41+70)**
* ITEM TO BE REMOVED
** INTERMITTENT REMOVAL



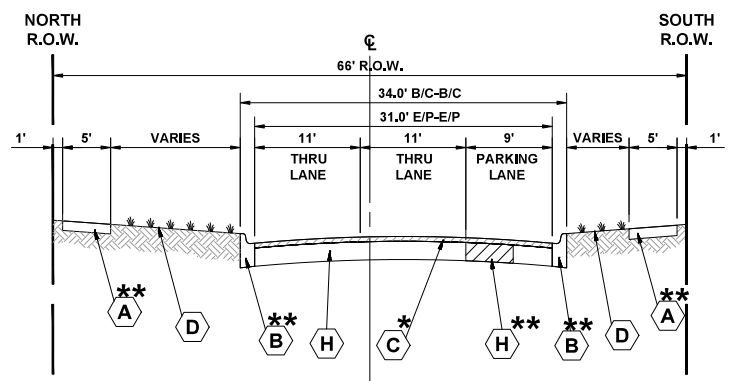
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BROOKFIELD AVENUE
(STA 35+88 TO STA 41+70)**
* ITEM TO BE REMOVED
** INTERMITTENT REMOVAL



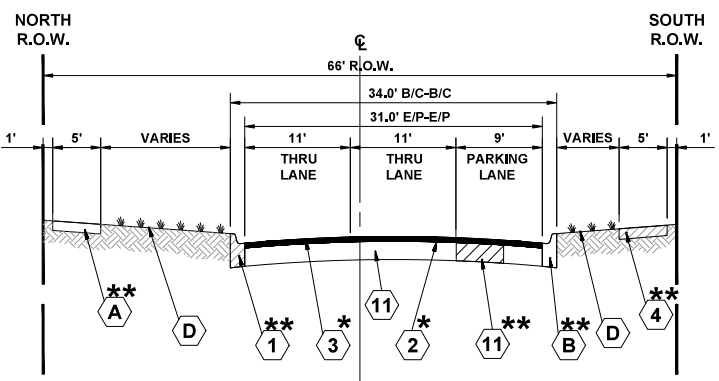
**EXISTING TYPICAL SECTION
BROOKFIELD AVENUE / WOODSIDE AVENUE
(STA 41+70 TO STA 44+20)**
* ITEM TO BE REMOVED
** INTERMITTENT REMOVAL



**PROPOSED TYPICAL SECTION
BROOKFIELD AVENUE / WOODSIDE AVENUE
(STA 41+70 TO STA 44+20)**
* ITEM TO BE REMOVED
** INTERMITTENT REMOVAL



**EXISTING TYPICAL SECTION
WOODSIDE AVENUE
(STA 44+20 TO STA 47+50)**
* ITEM TO BE REMOVED
** INTERMITTENT REMOVAL



**PROPOSED TYPICAL SECTION
WOODSIDE AVENUE
(STA 44+20 TO STA 47+50)**
* ITEM TO BE REMOVED
** INTERMITTENT REMOVAL

TYPICAL SECTION LEGEND

- | EXISTING | | PROPOSED | |
|----------|---|-----------|--|
| A | PORTLAND CEMENT CONCRETE SIDEWALK, 5" | 1 | COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (MODIFIED) |
| B | EXISTING COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (MODIFIED) | 2 | HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N50, 1.5" |
| C | HOT-MIX ASPHALT BINDER AND SURFACE COURSE, 2" - 4" | 3 | HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, N50, 2" |
| D | SODDED PARKWAY | 4 | PORTLAND CEMENT CONCRETE SIDEWALK, 5" |
| E | 15' POST TOP LIGHT POLE | 5 | REMOVE AND RESET BRICK PAVERS |
| F | 4' x 4' TREE GRATE | 6 | PORTLAND CEMENT CONCRETE RIBBON CURB |
| G | TREE | 7 | PENDENT LIGHT WITH 2' MAST ARM |
| H | AGGREGATE BASE COURSE, ± 12" | 8 | 4' x 4' TREE GRATE |
| I | PORTLAND CEMENT CONCRETE RIBBON CURB | 9 | BRICK PAVER SIDEWALK |
| J | PORTLAND CEMENT CONCRETE BASE COURSE, ± 8" | 10 | STRUCTURAL SOIL |
| K | BRICK PAVER SIDEWALK | 11 | CLASS D PATCH |
| L | EARTH EXCAVATION | 12 | CLASS B PATCH |
| M | CONCRETE BARRIER CURB | | |

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DESIGNED	--	REVISED	--
DRAWN	ECW, SB, GD, DMM, LW	REVISED	--
CHECKED	--	REVISED	--
DATE	11-7-24	REVISED	--

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING AND PROPOSED TYPICAL SECTIONS
 SCALE: NONE SHEET NO. 3 OF 4 SHEETS STA. - TO STA. -

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1694/1408	21-00134-00-RS	COOK	68	17
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 61K86	
			FED. AID PROJECT	

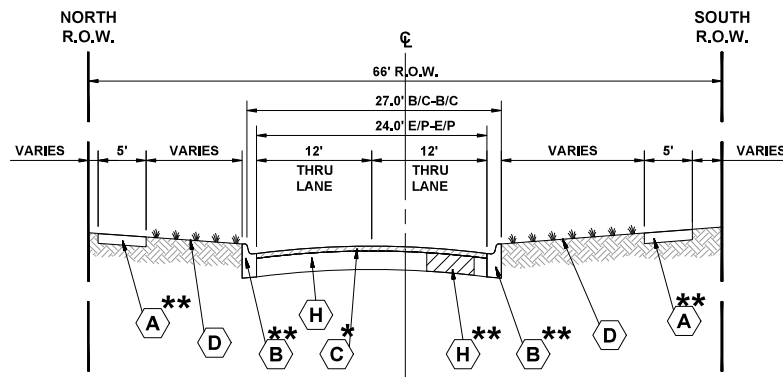
TYPICAL SECTION LEGEND

EXISTING

- A** PORTLAND CEMENT CONCRETE SIDEWALK, 5"
- B** EXISTING COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (MODIFIED)
- C** HOT-MIX ASPHALT BINDER AND SURFACE COURSE, 2" - 4"
- D** SODDED PARKWAY
- E** 15' POST TOP LIGHT POLE
- F** 4' x 4' TREE GRATE
- G** TREE
- H** AGGREGATE BASE COURSE, ± 12"
- I** PORTLAND CEMENT CONCRETE RIBBON CURB
- J** PORTLAND CEMENT CONCRETE BASE COURSE, ± 8"
- K** BRICK PAVER SIDEWALK
- L** EARTH EXCAVATION
- M** CONCRETE BARRIER CURB

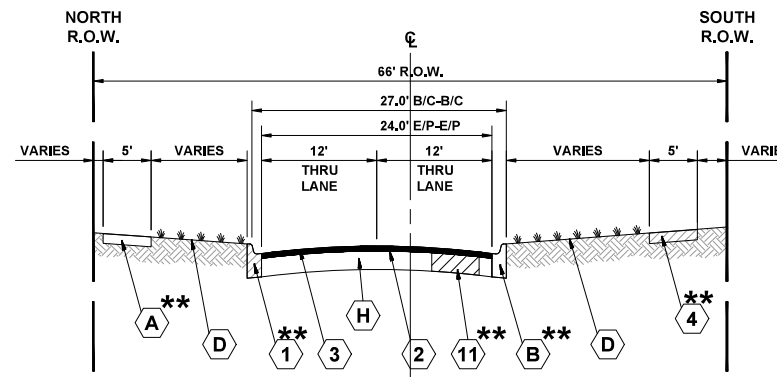
PROPOSED

- 1** COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (MODIFIED)
- 2** HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N50, 1.5"
- 3** HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, N50, 2"
- 4** PORTLAND CEMENT CONCRETE SIDEWALK, 5"
- 5** REMOVE AND RESET BRICK PAVERS
- 6** PORTLAND CEMENT CONCRETE RIBBON CURB
- 7** PENDENT LIGHT WITH 2' MAST ARM
- 8** 4' x 4' TREE GRATE
- 9** BRICK PAVER SIDEWALK
- 10** STRUCTURAL SOIL
- 11** CLASS D PATCH
- 12** CLASS B PATCH



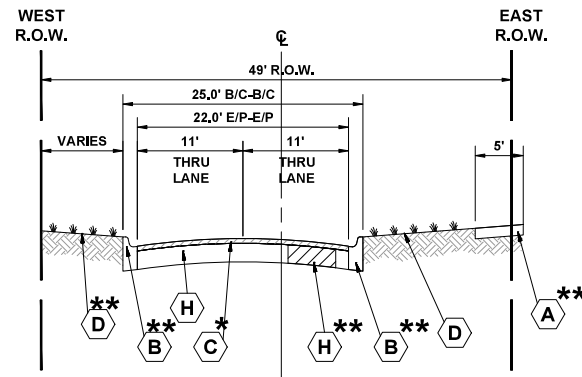
**EXISTING TYPICAL SECTION
PARKVIEW AVENUE
(STA 47+50 TO STA 49+25)**

* ITEM TO BE REMOVED
** INTERMITTEMT REMOVAL



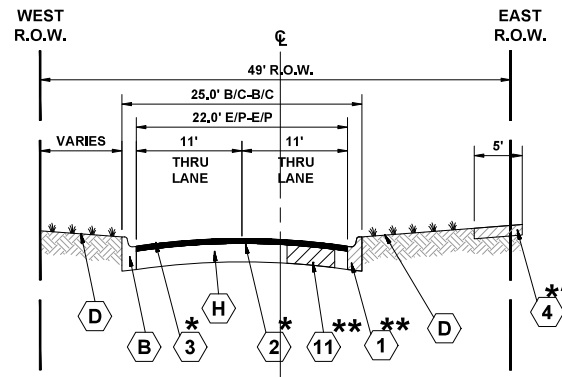
**PROPOSED TYPICAL SECTION
PARKVIEW AVENUE
(STA 47+50 TO STA 49+25)**

* ITEM TO BE REMOVED
** INTERMITTEMT REMOVAL



**EXISTING TYPICAL SECTION
GOLF ROAD
(STA 49+25 TO STA 53+88)**

* ITEM TO BE REMOVED
** INTERMITTEMT REMOVAL



**PROPOSED TYPICAL SECTION
GOLF ROAD
(STA 49+25 TO STA 53+88)**

* ITEM TO BE REMOVED
** INTERMITTEMT REMOVAL

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DRAWN	ECW, SB, GD, DMM, LW	REVISED	-
CHECKED	- -	REVISED	-
DATE	11-7-24	REVISED	-

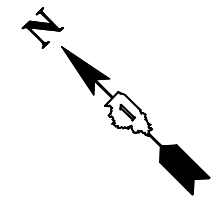
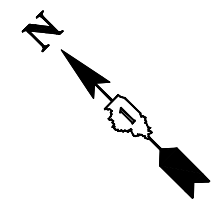
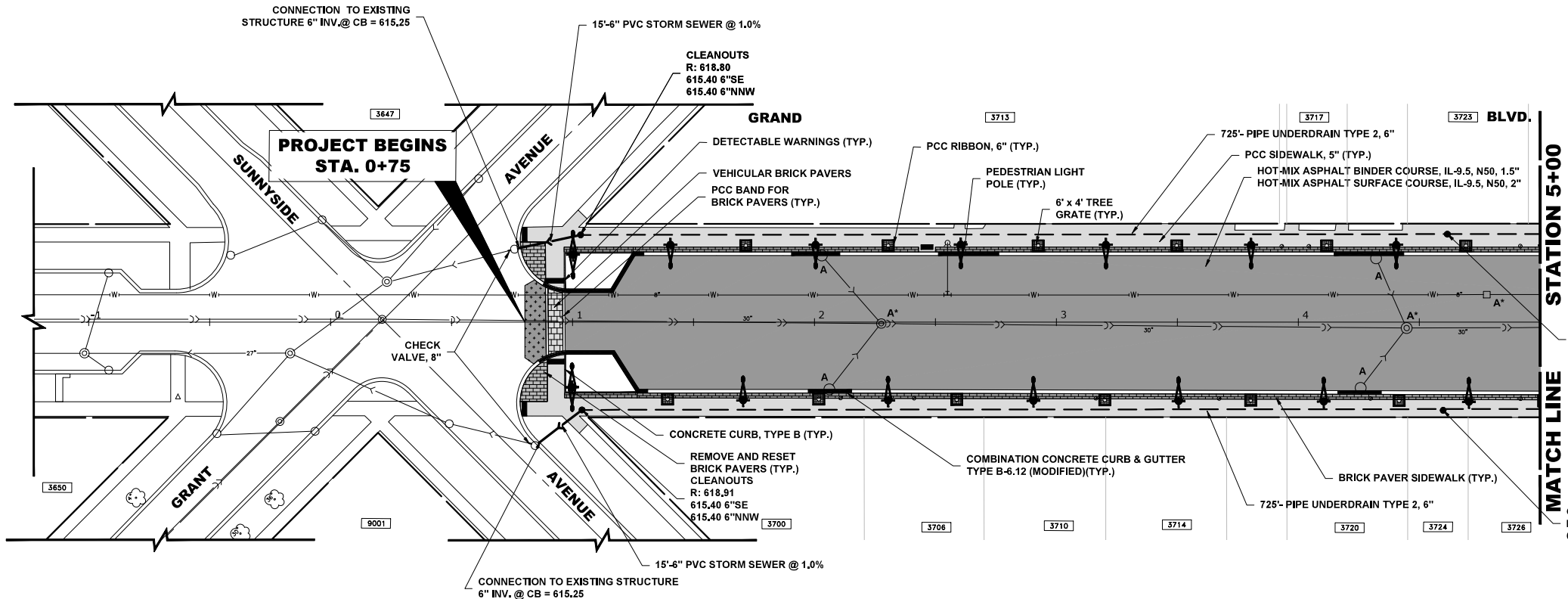
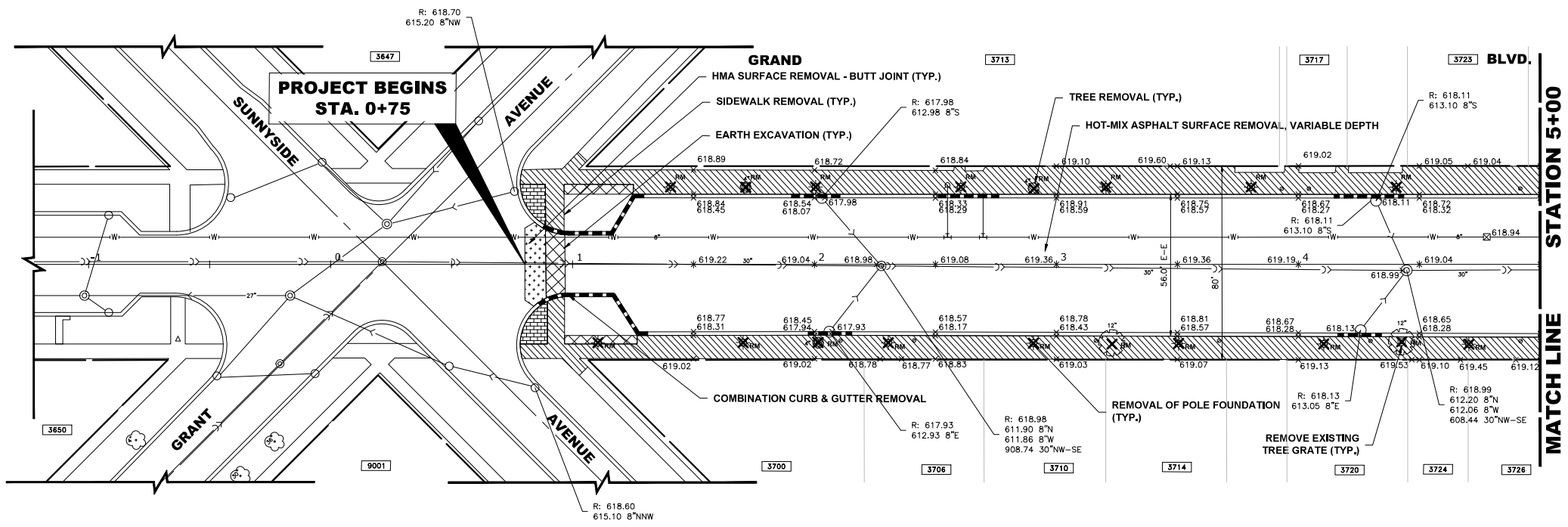
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING AND PROPOSED TYPICAL SECTIONS

SCALE: NONE SHEET NO. 4 OF 4 SHEETS STA. - TO STA. -

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1694/1408	21-00134-00-RS	COOK	68	18
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 61K86	
			FED. AID PROJECT	

E,H,E. PROJECT NO. 1252100501



LEGEND OF SYMBOLS
(TO BE USED IN CONJUNCTION WITH I.D.O.T. STANDARD 000001-08)

SYMBOL	DESCRIPTION
[HMA]	EXISTING HOT-MIX ASPHALT AREA
[C]	EXISTING CONCRETE AREA
[G]	EXISTING GRASS AREA
[HMA Butt Joint]	PROPOSED HOT-MIX ASPHALT BUTT JOINT
[Brick Paver]	EXISTING BRICK PAVER AREA
[Brick Paver with X]	REMOVE AND REINSTALL BRICK PAVERS
[Brick Paver with +]	SUPPLY AND INSTALL BRICK PAVERS
[Concrete Area]	PROPOSED CONCRETE AREA, 5" SIDEWALK, 7" DRIVEWAY
[HMA Resurfacing]	PROPOSED HOT-MIX ASPHALT RESURFACING AREA
A	STRUCTURE TO BE ADJUSTED
A*	STRUCTURE TO BE ADJUSTED (SPECIAL)
AH	HANDHOLE TO BE ADJUSTED
1C	NEW FRAME AND LID, TYPE 1, CLOSED LID
1P	NEW FRAME AND LID, TYPE 1, OPEN LID
1B	NEW FRAME AND LID, TYPE 1, WATERTIGHT BOLT DOWN LID
RC	STRUCTURE TO BE RECONSTRUCTED
[Fire Hydrant]	EXISTING FIRE HYDRANT
[Water Valve Box]	EXISTING WATER VALVE BOX
[Water Main Valve Vault]	EXISTING WATER MAIN VALVE VAULT
[Storm Sewer Inlet]	EXISTING STORM SEWER INLET
[Storm Sewer Catch Basin]	EXISTING STORM SEWER CATCH BASIN
[Proposed Storm Sewer Catch Basin]	PROPOSED STORM SEWER CATCH BASIN
[Sewer Manhole]	EXISTING SEWER MANHOLE
[Street Light Pole]	EXISTING STREET LIGHT POLE
[Power Pole]	EXISTING POWER POLE
[Handhole]	EXISTING HANDHOLE
[Curb and Gutter]	EXISTING CURB AND GUTTER
[Proposed Concrete Curb]	PROPOSED CONCRETE CURB, TYPE B
[Proposed Combination Curb]	PROPOSED COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT
[Storm Sewer]	EXISTING STORM SEWER
[Combined Sewer]	EXISTING COMBINED SEWER
[Water Main]	EXISTING WATER MAIN
[MWRD Sewer]	MWRD SEWER
[MWRD Manhole]	MWRD MANHOLE
[MWRD Structure]	MWRD STRUCTURE

- NOTES:
1. THE MWRD SHALL HAVE 24 HOUR PER DAY UNRESTRICTED ACCESS TO ALL MWRD STRUCTURES, SEWERS, AND FACILITIES.
 2. NO DEBRIS SHALL ENTER MWRD STRUCTURES, SEWERS, FACILITIES, OR WATERWAYS.
 3. NO ACCESS HATCHES OR MANHOLE COVERS ON MWRD STRUCTURES WITHIN THE PROJECT AREA SHALL BE COVERED OR BURIED

Drawing file: W:\Projects_by_Village\Brookfield\12521005 - Brookfield And 3700 Block of Grand LAFD\Site\Brookfield Ave.dwg Nov 06, 2024 - 8:02am

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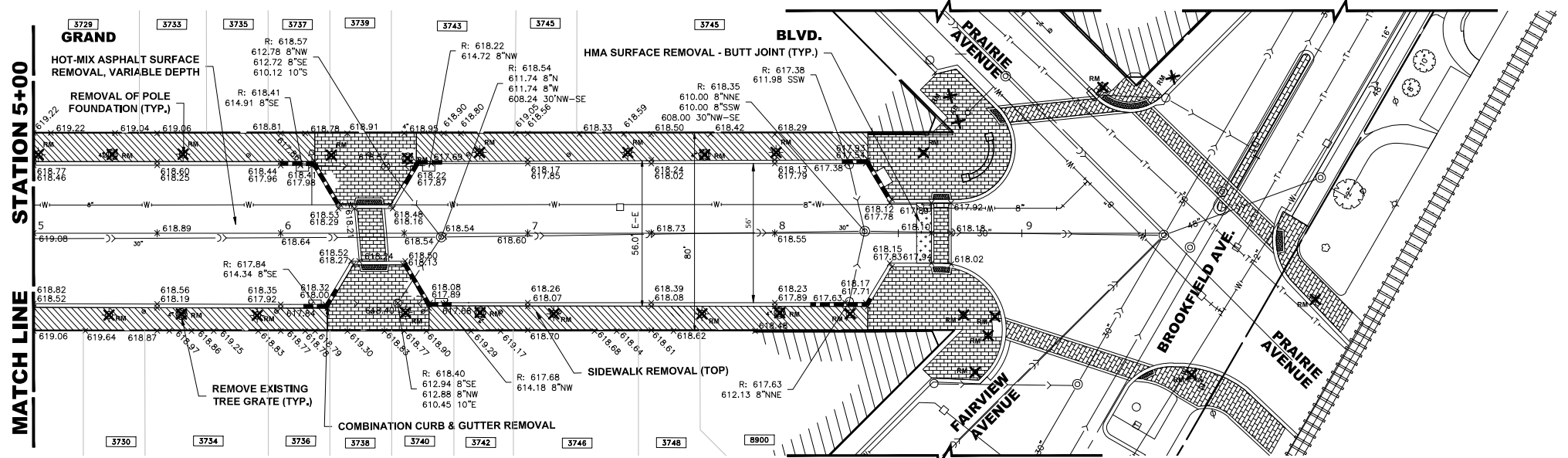
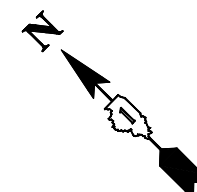
REVISED --
 REVISED --
 REVISED --
 REVISED --

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PAVING AND UTILITY PLAN

SCALE: 1" = 30'
 SHEET NO. 1 OF 6 SHEETS
 STA. 0+00 TO STA. 5+00

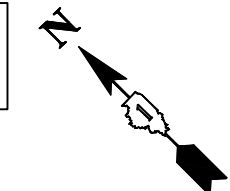
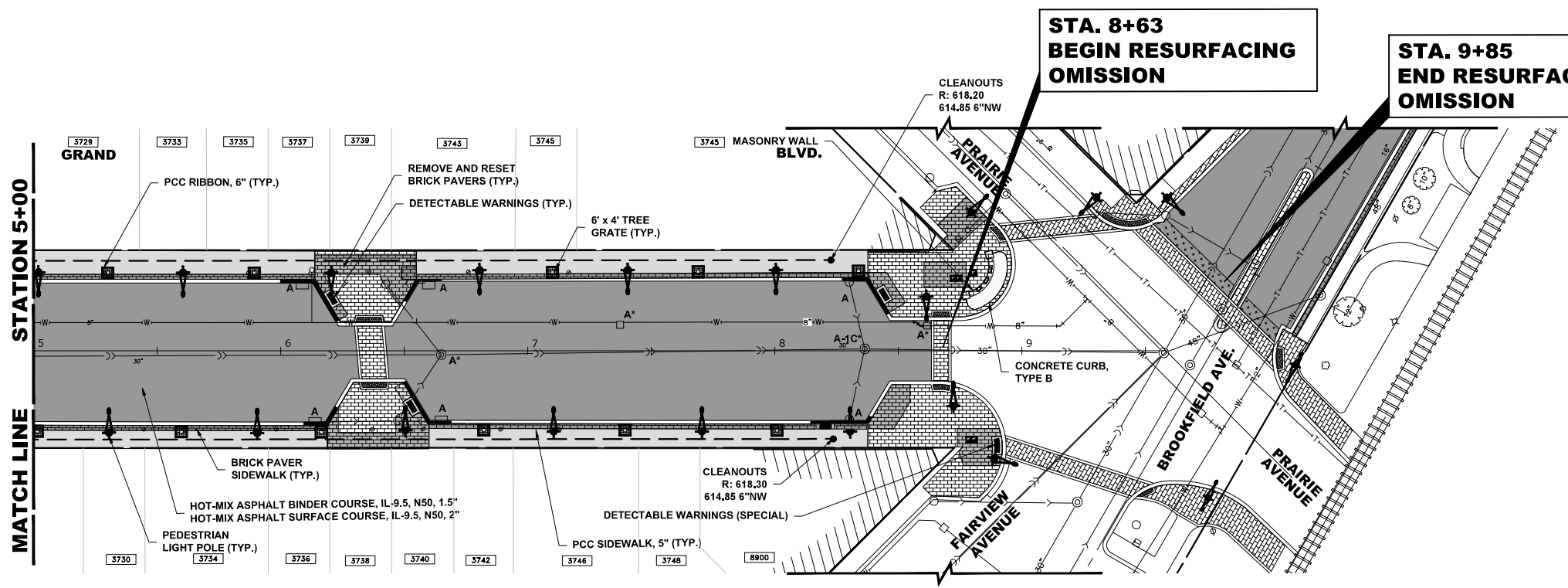
F.A.U. R.T.E. 1694/1406	SECTION 21-00134-00-RS	COUNTY COOK	TOTAL SHEETS 68	SHEET NO. 19
CONTRACT NO. 61K86			FED. AID PROJECT	
E.H.E. PROJECT NO. 1252100501				



LEGEND OF SYMBOLS
(TO BE USED IN CONJUNCTION WITH I.D.O.T. STANDARD 000001-07)

SYMBOL	DESCRIPTION
[HMA]	EXISTING HOT-MIX ASPHALT AREA
[C]	EXISTING CONCRETE AREA
[G]	EXISTING GRASS AREA
[+ + +]	PROPOSED HOT-MIX ASPHALT BUTT JOINT
[Brick]	EXISTING BRICK PAVER AREA
[Brick]	REMOVE AND REINSTALL BRICK PAVERS
[Brick]	SUPPLY AND INSTALL BRICK PAVERS
[Concrete]	PROPOSED CONCRETE AREA, 5" SIDEWALK, 7" DRIVEWAY
[HMA]	PROPOSED HOT-MIX ASPHALT RESURFACING AREA
A	STRUCTURE TO BE ADJUSTED
A*	STRUCTURE TO BE ADJUSTED (SPECIAL)
AH	HANDHOLE TO BE ADJUSTED
1C	NEW FRAME AND LID, TYPE 1, CLOSED LID
1P	NEW FRAME AND LID, TYPE 1, OPEN LID
1B	NEW FRAME AND LID, TYPE 1, WATERTIGHT BOLT DOWN LID
RC	STRUCTURE TO BE RECONSTRUCTED
[Fire Hydrant]	EXISTING FIRE HYDRANT
[Water Valve]	EXISTING WATER VALVE BOX
[Water Main]	EXISTING WATER MAIN VALVE VAULT
[Sewer Inlet]	EXISTING STORM SEWER INLET
[Sewer Catch Basin]	EXISTING STORM SEWER CATCH BASIN
[Proposed Catch Basin]	PROPOSED STORM SEWER CATCH BASIN
[Sewer Manhole]	EXISTING SEWER MANHOLE
[Street Light]	EXISTING STREET LIGHT POLE
[Power Pole]	EXISTING POWER POLE
[Handhole]	EXISTING HANDHOLE
[Curb and Gutter]	EXISTING CURB AND GUTTER
[Proposed Concrete Curb]	PROPOSED CONCRETE CURB, TYPE B
[Proposed Combination Curb]	PROPOSED COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT
[Storm Sewer]	EXISTING STORM SEWER
[Combined Sewer]	EXISTING COMBINED SEWER
[Water Main]	EXISTING WATER MAIN
[MWRD Sewer]	MWRD SEWER
[MWRD Manhole]	MWRD MANHOLE
[MWRD Structure]	MWRD STRUCTURE

EXISTING IMPROVEMENTS



PROPOSED IMPROVEMENTS

- NOTES:
1. THE MWRD SHALL HAVE 24 HOUR PER DAY UNRESTRICTED ACCESS TO ALL MWRD STRUCTURES, SEWERS, AND FACILITIES.
 2. NO DEBRIS SHALL ENTER MWRD STRUCTURES, SEWERS, FACILITIES, OR WATERWAYS.
 3. NO ACCESS HATCHES OR MANHOLE COVERS ON MWRD STRUCTURES WITHIN THE PROJECT AREA SHALL BE COVERED OR BURIED

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CHECKED --	REVISIONS --
DATE -- 11-7-24	REVISIONS --

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

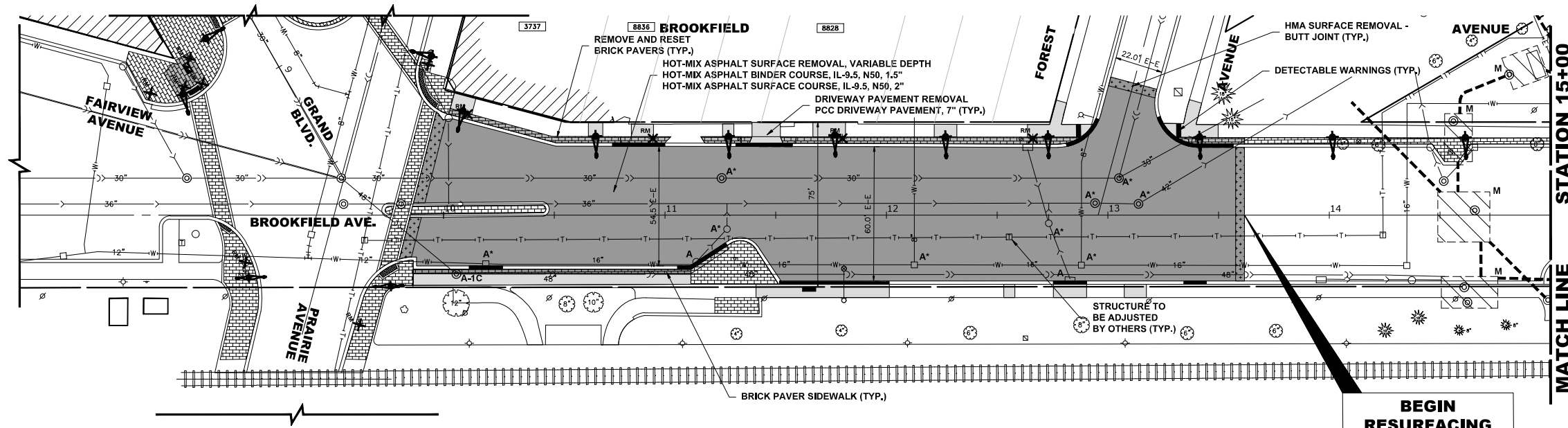
PAVING AND UTILITY PLAN

SCALE: 1" = 30'

SHEET NO. 2 OF 6 SHEETS

STA. 5+00 TO STA. 9+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1694/1406	21-00134-00-RS	COOK	68	20
CONTRACT NO. 61K86			FED. AID PROJECT	
E.H.E. PROJECT NO. 1252100501				

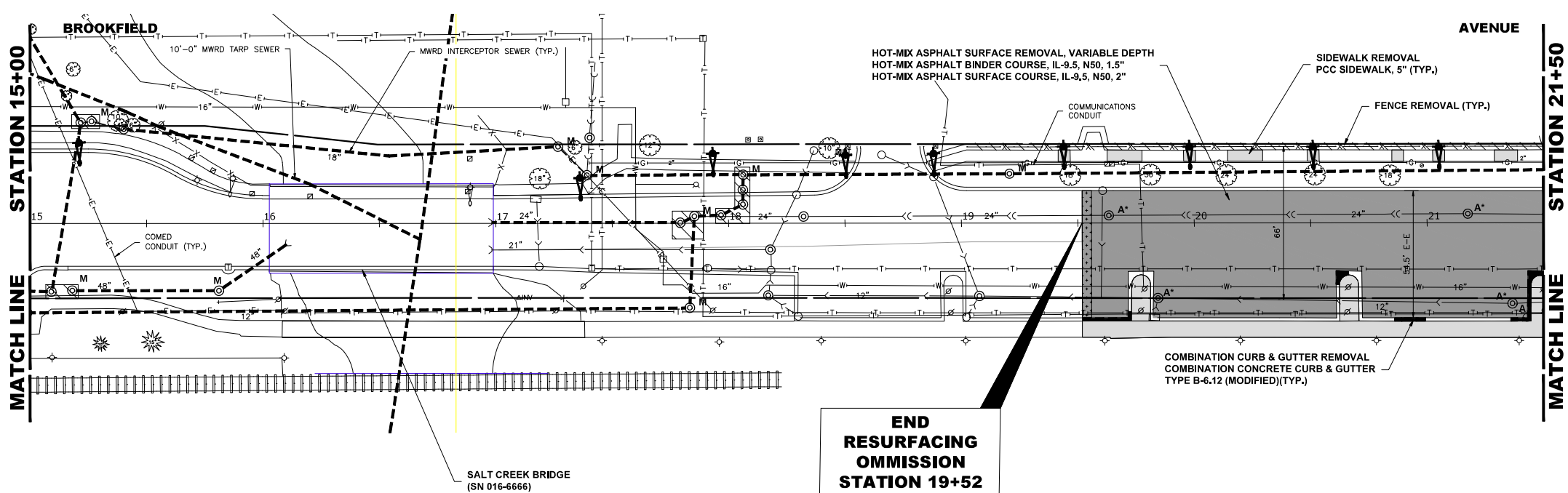


**BEGIN
RESURFACING
OMISSION
STATION 13+62**

**PROPOSED
IMPROVEMENTS**

LEGEND OF SYMBOLS
(TO BE USED IN CONJUNCTION WITH I.D.O.T. STANDARD 000001-07)

SYMBOL	DESCRIPTION
HMA	EXISTING HOT-MIX ASPHALT AREA
C	EXISTING CONCRETE AREA
G	EXISTING GRASS AREA
[Hatched]	PROPOSED HOT-MIX ASPHALT BUTT JOINT
[Brick]	EXISTING BRICK PAVER AREA
[Brick]	REMOVE AND REINSTALL BRICK PAVERS
[Brick]	SUPPLY AND INSTALL BRICK PAVERS
[Hatched]	PROPOSED CONCRETE AREA, 5" SIDEWALK, 7" DRIVEWAY
[Hatched]	PROPOSED HOT-MIX ASPHALT RESURFACING AREA
A	STRUCTURE TO BE ADJUSTED
A*	STRUCTURE TO BE ADJUSTED (SPECIAL)
AH	HANDHOLE TO BE ADJUSTED
1C	NEW FRAME AND LID, TYPE 1, CLOSED LID
1P	NEW FRAME AND LID, TYPE 1, OPEN LID
1B	NEW FRAME AND LID, TYPE 1, WATERTIGHT BOLT DOWN LID
RC	STRUCTURE TO BE RECONSTRUCTED
[Fire Hydrant]	EXISTING FIRE HYDRANT
[Water Valve]	EXISTING WATER VALVE BOX
[Water Main Vault]	EXISTING WATER MAIN VALVE VAULT
[Sewer Inlet]	EXISTING STORM SEWER INLET
[Sewer Catch Basin]	EXISTING STORM SEWER CATCH BASIN
[Proposed Catch Basin]	PROPOSED STORM SEWER CATCH BASIN
[Sewer Manhole]	EXISTING SEWER MANHOLE
[Street Light Pole]	EXISTING STREET LIGHT POLE
[Power Pole]	EXISTING POWER POLE
[Handhole]	EXISTING HANDHOLE
[Curb and Gutter]	EXISTING CURB AND GUTTER
[Proposed Concrete Curb]	PROPOSED CONCRETE CURB, TYPE B
[Proposed Combination Curb]	PROPOSED COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT
[Storm Sewer]	EXISTING STORM SEWER
[Combined Sewer]	EXISTING COMBINED SEWER
[Water Main]	EXISTING WATER MAIN
[MWRD Sewer]	MWRD SEWER
[MWRD Manhole]	MWRD MANHOLE
[MWRD Structure]	MWRD STRUCTURE



**END
RESURFACING
OMISSION
STATION 19+52**

**PROPOSED
IMPROVEMENTS**

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DRAWN -- ECW, SB, GD, DMM, LW	REVISION --
CHECKED --	REVISION --
DATE -- 11-7-24	REVISION --

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

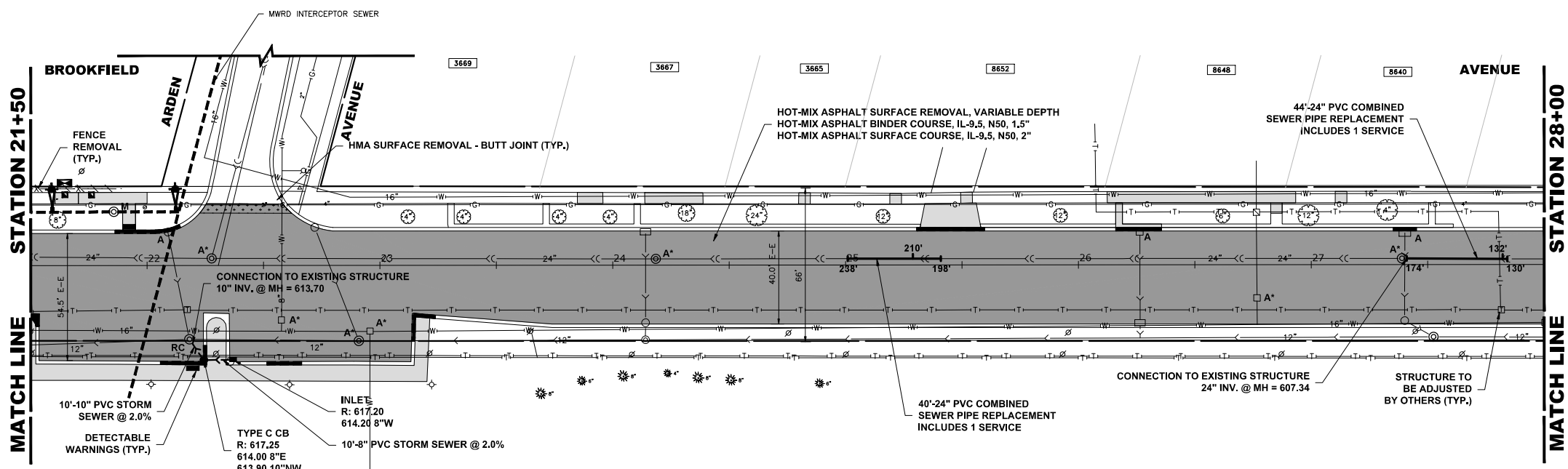
PAVING AND UTILITY PLAN

SCALE: 1" = 30'

SHEET NO. 3 OF 6 SHEETS

STA. 9+50 TO STA. 21+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1694/1408	21-00134-00-RS	COOK	68	21
CONTRACT NO. 61K86			FED. AID PROJECT	
E.H.E. PROJECT NO. 1252100501				

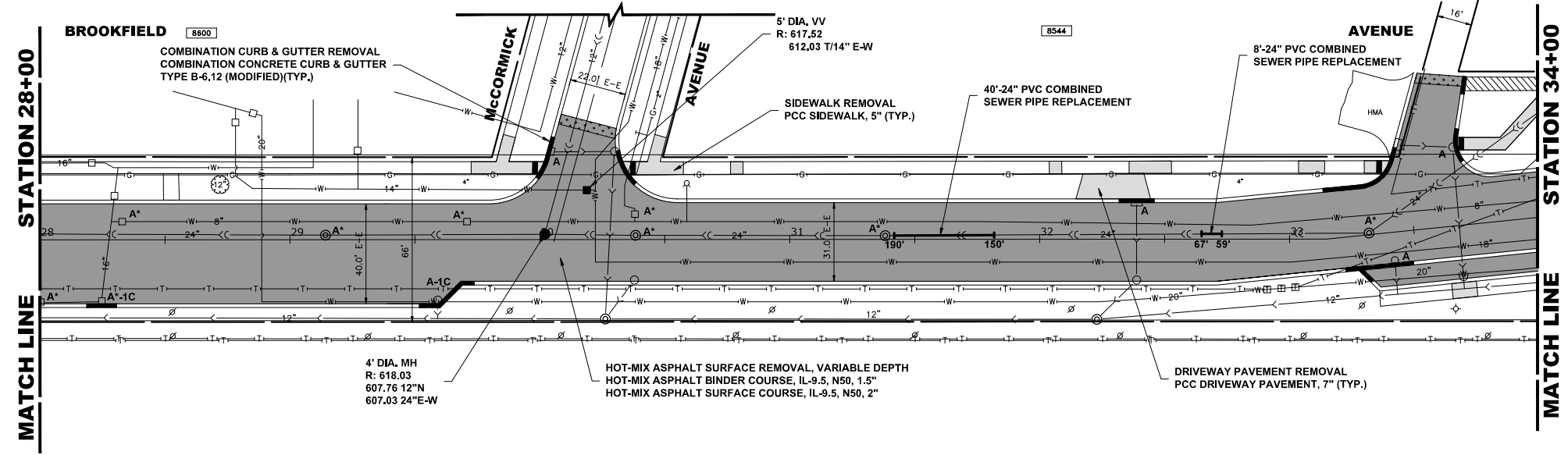


LEGEND OF SYMBOLS

(TO BE USED IN CONJUNCTION WITH I.D.O.T. STANDARD 000001-07)

SYMBOL	DESCRIPTION
[HMA]	EXISTING HOT-MIX ASPHALT AREA
[C]	EXISTING CONCRETE AREA
[G]	EXISTING GRASS AREA
[+ + +]	PROPOSED HOT-MIX ASPHALT BUTT JOINT
[Brick]	EXISTING BRICK PAVEMENT AREA
[Brick]	REMOVE AND REINSTALL BRICK PAVERS
[Brick]	SUPPLY AND INSTALL BRICK PAVERS
[Concrete]	PROPOSED CONCRETE AREA, 5" SIDEWALK, 7" DRIVEWAY
[HMA]	PROPOSED HOT-MIX ASPHALT RESURFACING AREA
A	STRUCTURE TO BE ADJUSTED
A*	STRUCTURE TO BE ADJUSTED (SPECIAL)
AH	HANDHOLE TO BE ADJUSTED
1C	NEW FRAME AND LID, TYPE 1, CLOSED LID
1P	NEW FRAME AND LID, TYPE 1, OPEN LID
1B	NEW FRAME AND LID, TYPE 1, WATERTIGHT BOLT DOWN LID
RC	STRUCTURE TO BE RECONSTRUCTED
[Fire Hydrant]	EXISTING FIRE HYDRANT
[Valve]	EXISTING WATER VALVE BOX
[Valve Vault]	EXISTING WATER MAIN VALVE VAULT
[Inlet]	EXISTING STORM SEWER INLET
[Catch Basin]	EXISTING STORM SEWER CATCH BASIN
[Catch Basin]	PROPOSED STORM SEWER CATCH BASIN
[Manhole]	EXISTING SEWER MANHOLE
[Light Pole]	EXISTING STREET LIGHT POLE
[Power Pole]	EXISTING POWER POLE
[Handhole]	EXISTING HANDHOLE
[Curb and Gutter]	EXISTING CURB AND GUTTER
[Curb and Gutter]	PROPOSED CONCRETE CURB, TYPE B
[Curb and Gutter]	PROPOSED COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT
[Sewer]	EXISTING STORM SEWER
[Sewer]	EXISTING COMBINED SEWER
[Water Main]	EXISTING WATER MAIN
[MWRD Sewer]	MWRD SEWER
[MWRD Manhole]	MWRD MANHOLE
[MWRD Structure]	MWRD STRUCTURE

PROPOSED IMPROVEMENTS



PROPOSED IMPROVEMENTS

- NOTES:
1. THE MWRD SHALL HAVE 24 HOUR PER DAY UNRESTRICTED ACCESS TO ALL MWRD STRUCTURES, SEWERS, AND FACILITIES.
 2. NO DEBRIS SHALL ENTER MWRD STRUCTURES, SEWERS, FACILITIES, OR WATERWAYS.
 3. NO ACCESS HATCHES OR MANHOLE COVERS ON MWRD STRUCTURES WITHIN THE PROJECT AREA SHALL BE COVERED OR BURIED

Drawing file: W:\Projects_by_Village\Brookfield\12521005 - Brookfield And 3700 Block of Grand LAFD\Site\Brookfield Ave.dwg Nov 06, 2024 - 8:04am

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 9933 Roosevelt Road
 Westchester, IL 60154-2780
 Phone: 708-645-0800
 www.hancock.com

DESIGNED --
 DRAWN -- ECW, SB, GD, DMM, LW
 CHECKED --
 DATE -- 11-7-24

REVISED --
 REVISED --
 REVISED --
 REVISED --

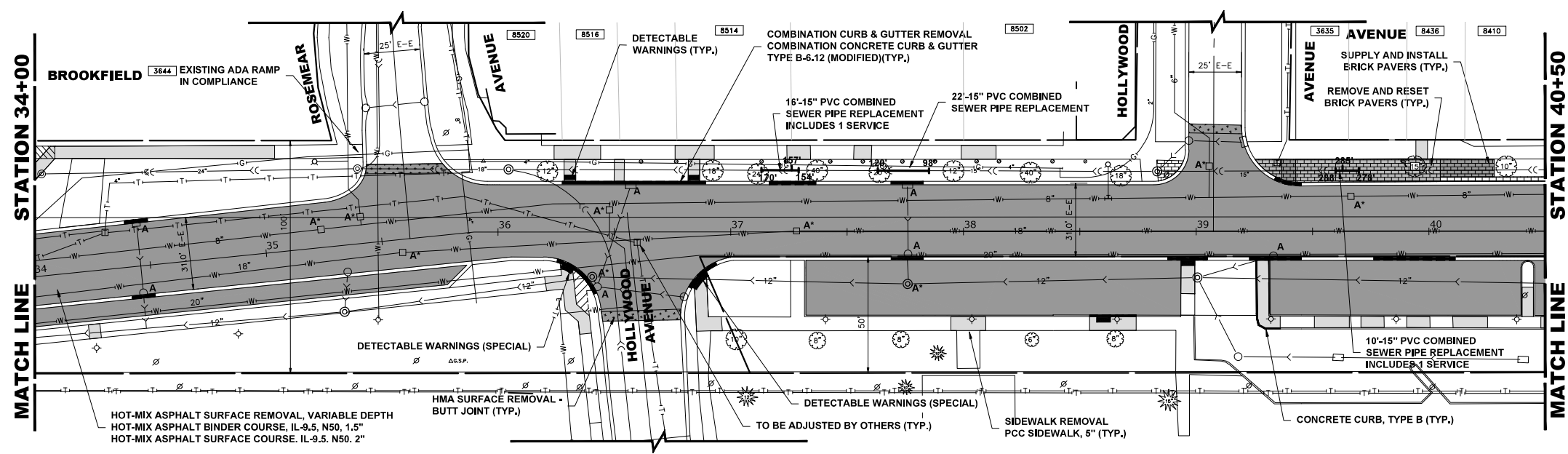
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PAVING AND UTILITY PLAN

SCALE: 1" = 30'
 SHEET NO. 4 OF 6 SHEETS
 STA. 21+50 TO STA. 34+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1694/1406	21-00134-00-RS	COOK	68	22
CONTRACT NO. 61K86			FED. AID PROJECT	
ILLINOIS				
FED. ROAD DIST. NO. 1				
E.H.E. PROJECT NO. 1252100501				

Drawing file: W:\Projects_by_Village\Brookfield\12521005 - Brookfield And 3700 Block of Grand LAFD\Site\Brookfield Ave.dwg Nov 06, 2024 - 8:04am

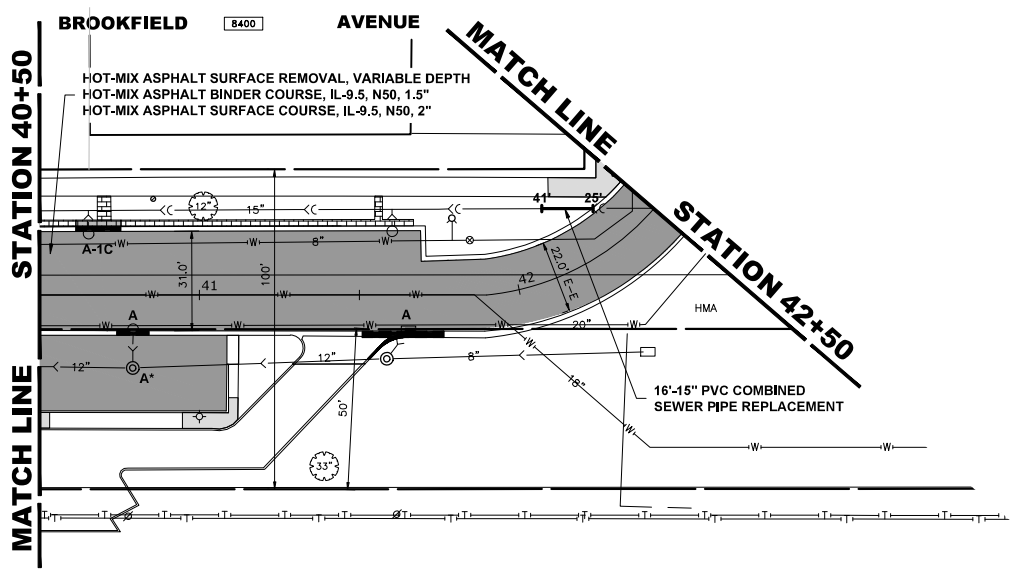


LEGEND OF SYMBOLS

(TO BE USED IN CONJUNCTION WITH I.D.O.T. STANDARD 000001-07)

SYMBOL	DESCRIPTION
[HMA]	EXISTING HOT-MIX ASPHALT AREA
[C]	EXISTING CONCRETE AREA
[G]	EXISTING GRASS AREA
[+ + +]	PROPOSED HOT-MIX ASPHALT BUTT JOINT
[Brick]	EXISTING BRICK PAVER AREA
[Brick]	REMOVE AND REINSTALL BRICK PAVERS
[Brick]	SUPPLY AND INSTALL BRICK PAVERS
[Concrete]	PROPOSED CONCRETE AREA, 5" SIDEWALK, 7" DRIVEWAY
[HMA]	PROPOSED HOT-MIX ASPHALT RESURFACING AREA
A	STRUCTURE TO BE ADJUSTED
A*	STRUCTURE TO BE ADJUSTED (SPECIAL)
AH	HANDHOLE TO BE ADJUSTED
1C	NEW FRAME AND LID, TYPE 1, CLOSED LID
1P	NEW FRAME AND LID, TYPE 1, OPEN LID
1B	NEW FRAME AND LID, TYPE 1, WATERTIGHT BOLT DOWN LID
RC	STRUCTURE TO BE RECONSTRUCTED
[Fire Hydrant]	EXISTING FIRE HYDRANT
[Water Valve]	EXISTING WATER VALVE BOX
[Water Main Vault]	EXISTING WATER MAIN VALVE VAULT
[Storm Sewer Inlet]	EXISTING STORM SEWER INLET
[Storm Sewer Catch Basin]	EXISTING STORM SEWER CATCH BASIN
[Proposed Storm Sewer Catch Basin]	PROPOSED STORM SEWER CATCH BASIN
[Sewer Manhole]	EXISTING SEWER MANHOLE
[Street Light Pole]	EXISTING STREET LIGHT POLE
[Power Pole]	EXISTING POWER POLE
[Handhole]	EXISTING HANDHOLE
[Curb and Gutter]	EXISTING CURB AND GUTTER
[Proposed Concrete Curb]	PROPOSED CONCRETE CURB, TYPE B
[Proposed Combination Curb]	PROPOSED COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT
[Storm Sewer]	EXISTING STORM SEWER
[Combined Sewer]	EXISTING COMBINED SEWER
[Water Main]	EXISTING WATER MAIN
[MWRD Sewer]	MWRD SEWER
[MWRD Manhole]	MWRD MANHOLE
[MWRD Structure]	MWRD STRUCTURE

PROPOSED IMPROVEMENTS



PROPOSED IMPROVEMENTS

- NOTES:
1. THE MWRD SHALL HAVE 24 HOUR PER DAY UNRESTRICTED ACCESS TO ALL MWRD STRUCTURES, SEWERS, AND FACILITIES.
 2. NO DEBRIS SHALL ENTER MWRD STRUCTURES, SEWERS, FACILITIES, OR WATERWAYS.
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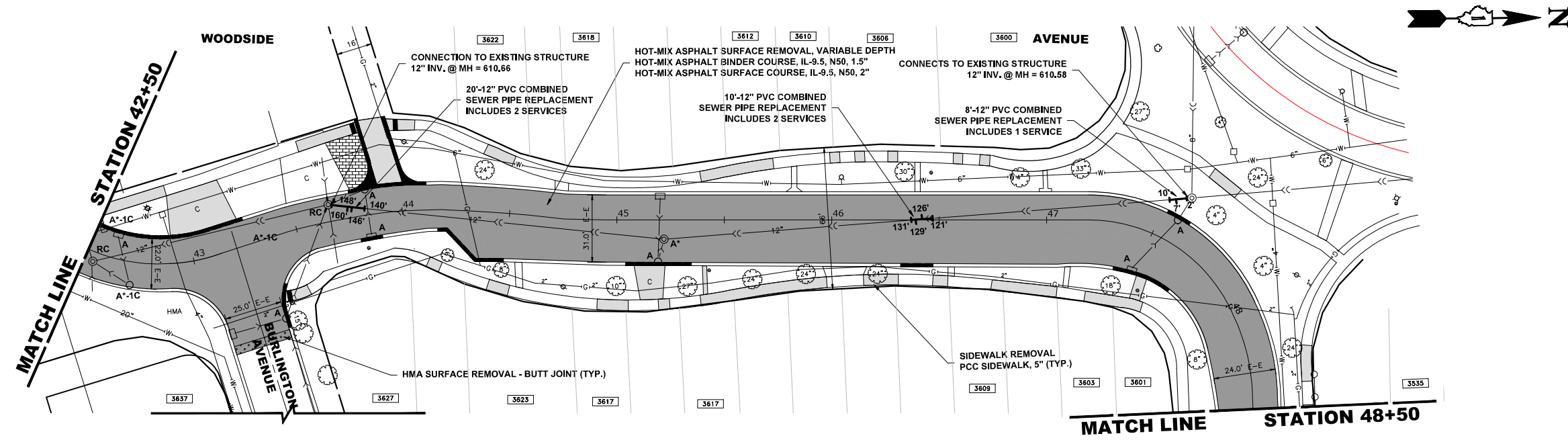
DESIGNED --
 DRAWN -- ECW, SB, GD, DMM, LW
 CHECKED --
 DATE -- 11-7-24

REVISOR --
 REVISION --
 REVISION --
 REVISION --

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PAVING AND UTILITY PLAN	
SCALE: 1" = 30'	SHEET NO. 5 OF 6 SHEETS
STA. 34+00	TO STA. 42+50

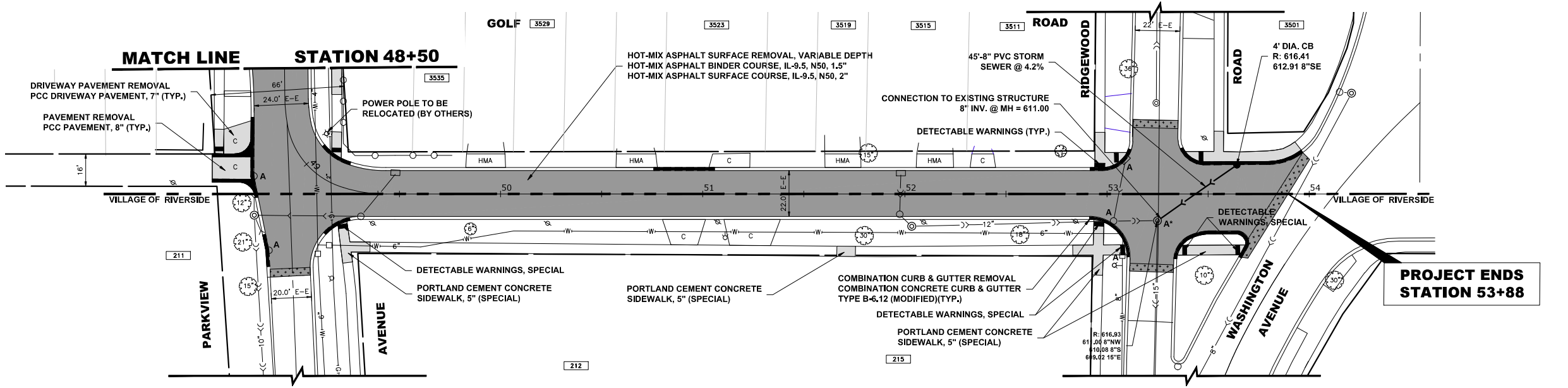
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1694/1408	21-00134-00-RS	COOK	68	23
CONTRACT NO. 61K86			FED. AID PROJECT	
E.H.E. PROJECT NO. 1252100501				



PROPOSED IMPROVEMENTS

LEGEND OF SYMBOLS
(TO BE USED IN CONJUNCTION WITH I.D.O.T. STANDARD 000001-07)

SYMBOL	DESCRIPTION
[HMA]	EXISTING HOT-MIX ASPHALT AREA
[C]	EXISTING CONCRETE AREA
[G]	EXISTING GRASS AREA
[HMA BUTT JOINT]	PROPOSED HOT-MIX ASPHALT BUTT JOINT
[BRICK PAVEMENT]	EXISTING BRICK PAVEMENT AREA
[REMOVAL/REINSTALL BRICK]	REMOVE AND REINSTALL BRICK PAVERS
[SUPPLY/INSTALL BRICK]	SUPPLY AND INSTALL BRICK PAVERS
[CONCRETE SIDEWALK]	PROPOSED CONCRETE AREA, 5" SIDEWALK, 7" DRIVEWAY
[HOT-MIX ASPHALT RESURFACING]	PROPOSED HOT-MIX ASPHALT RESURFACING AREA
[A]	STRUCTURE TO BE ADJUSTED
[A*]	STRUCTURE TO BE ADJUSTED (SPECIAL)
[AH]	HANDHOLE TO BE ADJUSTED
[1C]	NEW FRAME AND LID, TYPE 1, CLOSED LID
[1P]	NEW FRAME AND LID, TYPE 1, OPEN LID
[1B]	NEW FRAME AND LID, TYPE 1, WATERTIGHT BOLT DOWN LID
[RC]	STRUCTURE TO BE RECONSTRUCTED
[FIRE HYDRANT]	EXISTING FIRE HYDRANT
[WATER VALVE BOX]	EXISTING WATER VALVE BOX
[WATER MAIN VALVE VAULT]	EXISTING WATER MAIN VALVE VAULT
[SEWER INLET]	EXISTING STORM SEWER INLET
[STORM CATCH BASIN]	EXISTING STORM SEWER CATCH BASIN
[PROPOSED STORM CATCH BASIN]	PROPOSED STORM SEWER CATCH BASIN
[SEWER MANHOLE]	EXISTING SEWER MANHOLE
[STREET LIGHT POLE]	EXISTING STREET LIGHT POLE
[POWER POLE]	EXISTING POWER POLE
[HANDHOLE]	EXISTING HANDHOLE
[CURB AND GUTTER]	EXISTING CURB AND GUTTER
[CONCRETE CURB, TYPE B]	PROPOSED CONCRETE CURB, TYPE B
[COMBINATION CURB AND GUTTER]	PROPOSED COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT
[STORM SEWER]	EXISTING STORM SEWER
[COMBINED SEWER]	EXISTING COMBINED SEWER
[WATER MAIN]	EXISTING WATER MAIN
[MWRD SEWER]	MWRD SEWER
[MWRD MANHOLE]	MWRD MANHOLE
[MWRD STRUCTURE]	MWRD STRUCTURE



PROPOSED IMPROVEMENTS

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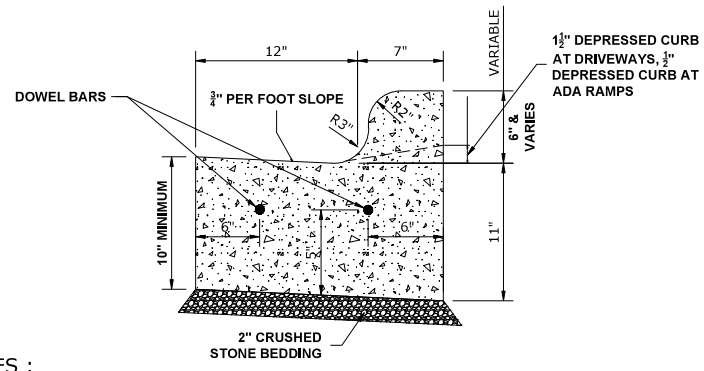
HANCOCK ENGINEERING
 9933 Roosevelt Road
 Westchester, IL 60154-2782
 Phone: 708-845-0300
 www.hancock.com
 Established 1911

DESIGNED --	REVISOR --
DRAWN -- ECW, SB, GD, DMM, LW	REVISION --
CHECKED --	REVISION --
DATE -- 11-7-24	REVISION --

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVING AND UTILITY PLAN	
SCALE: 1" = 30'	SHEET NO. 6 OF 6 SHEETS
STA. 42+50	TO STA. 54+00

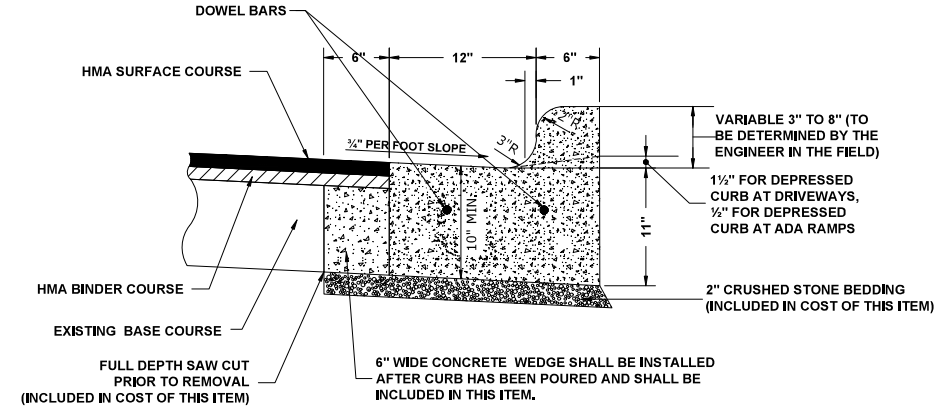
F.A.U. RTE. 1694/1406	SECTION 21-00134-00-RS	COUNTY COOK	TOTAL SHEETS 68	SHEET NO. 24
CONTRACT NO. 61K86			FED. AID PROJECT	
E.H.E. PROJECT NO. 1252100501				



NOTES :

1. PROVIDE 2 - 3/4" DIAMETER, 18" LONG EPOXY COATED SMOOTH BARS WITH PLASTIC EXPANSION CAPS AT EACH EXPANSION JOINT.
2. CONTRACTION JOINT - 2" DEEP CONTRACTION JOINTS SHALL BE SAWED AT EQUAL SPACES (NOT EXCEEDING 15 FEET) BETWEEN NORMAL EXPANSION JOINTS, IN THE UPPER 1/3 OF CURB & GUTTERS WITHIN 24 HOURS OF PLACEMENT.

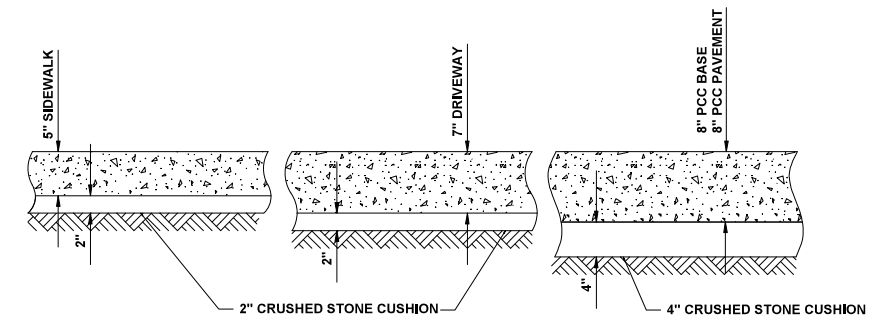
**COMBINATION CONCRETE CURB & GUTTER
TYPE B-6.12**



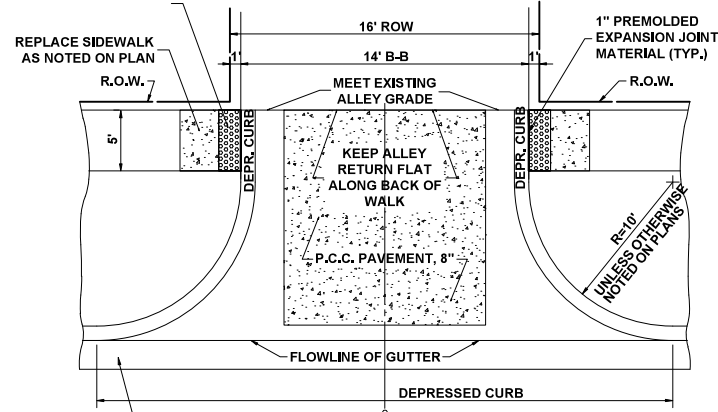
NOTES :

1. PROVIDE 2 - 3/4" DIAMETER, 18" LONG EPOXY COATED SMOOTH BARS WITH PLASTIC EXPANSION CAPS AT EACH EXPANSION JOINT.
2. CONTRACTION JOINT - 2" DEEP CONTRACTION JOINTS SHALL BE SAWED AT EQUAL SPACES (NOT EXCEEDING 15 FEET) BETWEEN NORMAL EXPANSION JOINTS, IN THE UPPER 1/3 OF CURB & GUTTERS WITHIN 24 HOURS OF PLACEMENT.

COMBINATION CONCRETE CURB & GUTTER TYPE B-6.12 (MODIFIED)



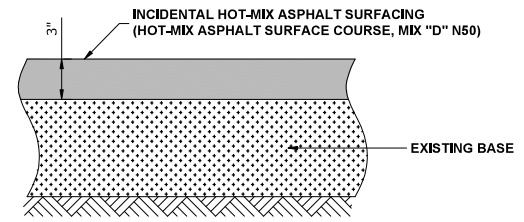
**TYPICAL P.C.C. SIDEWALK, DRIVEWAY,
PAVEMENT AND BASE**



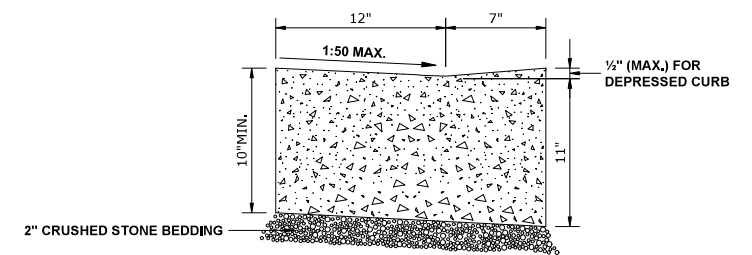
**PROP. COMBINATION CONCRETE CURB & GUTTER,
TYPE B-6.12 (MODIFIED)**

NOTE: UNLESS OTHERWISE NOTED ON PLAN USE RADII AS MARKED ABOVE.

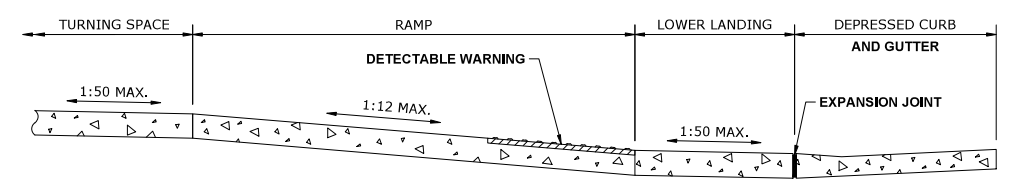
ALLEY RETURN



**INCIDENTAL HOT-MIX
ASPHALT SURFACING**

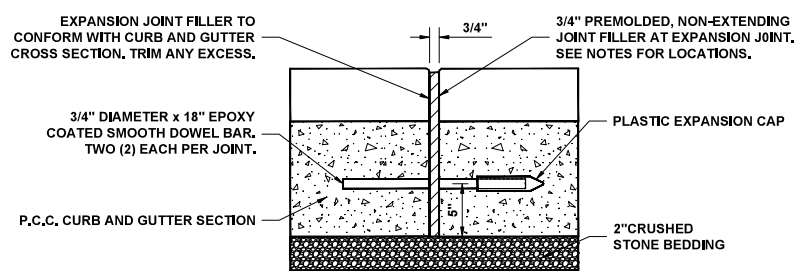


CURB AND GUTTER AT A.D.A. RAMPS



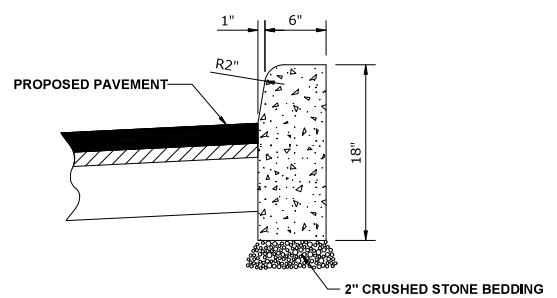
THE RUNNING SLOPE OF THE CURB RAMP SHALL NOT REQUIRE THE CURB LENGTH TO EXCEED 15'.

ADA RAMP

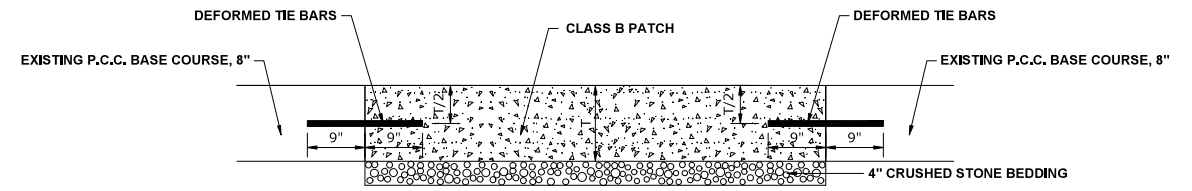


NOTE:
1. EXPANSION JOINTS ARE TO BE CONSTRUCTED AT ALL P.C.'S & P.T.'S OF INTERSECTION RETURNS AND ALL OTHER SHORT RADIUS SECTIONS. CONSTRUCTION JOINTS, EVERY 50' ON TANGENT SECTIONS, AND AS DIRECTED BY THE ENGINEER.

**TYPICAL CURB AND GUTTER
EXPANSION JOINT**



BARRIER CURB



**PAVEMENT PATCH FOR
CONCRETE BASE PAVEMENT**

Drawing file: W:\Projects_by_Village\Brookfield\12521005 - Brookfield And 3700 Block of Grand LAF0\Details_Roadway.dwg Nov 08, 2024 - 8:05am



Civil Engineers
Municipal Consultants
Established 1911

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Waukegan, IL 60154-2780
Phone: 708-848-0300
www.hancock.com

DESIGNED	- -	REVISED	-
DRAWN	ECW, SB, GD, DMM, LW	REVISED	-
CHECKED	- -	REVISED	-
DATE	11-7-24	REVISED	-

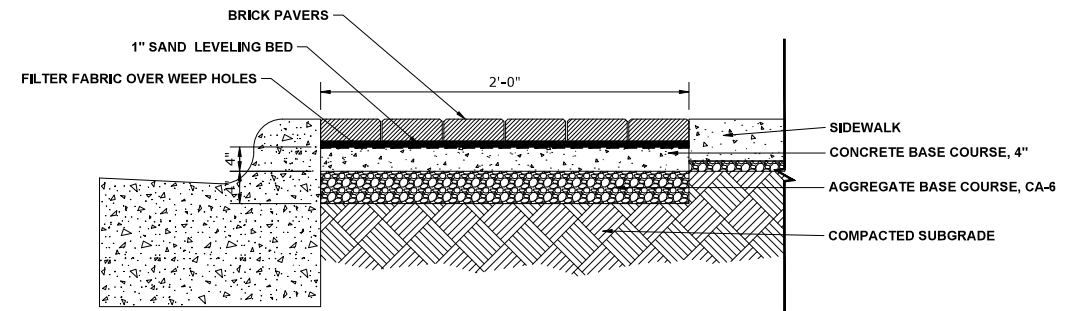
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVING AND UTILITY DETAILS

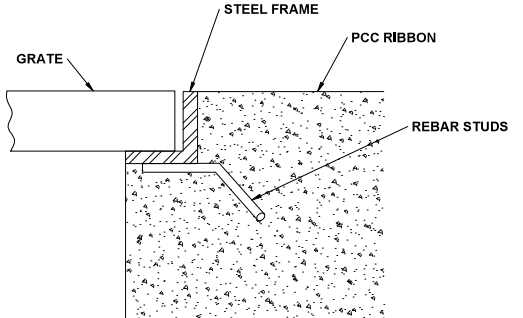
SCALE: NONE SHEET NO. 1 OF 5 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1694/1408	21-00134-00-RS	COOK	68	25
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 61K86	
FED. AID PROJECT				

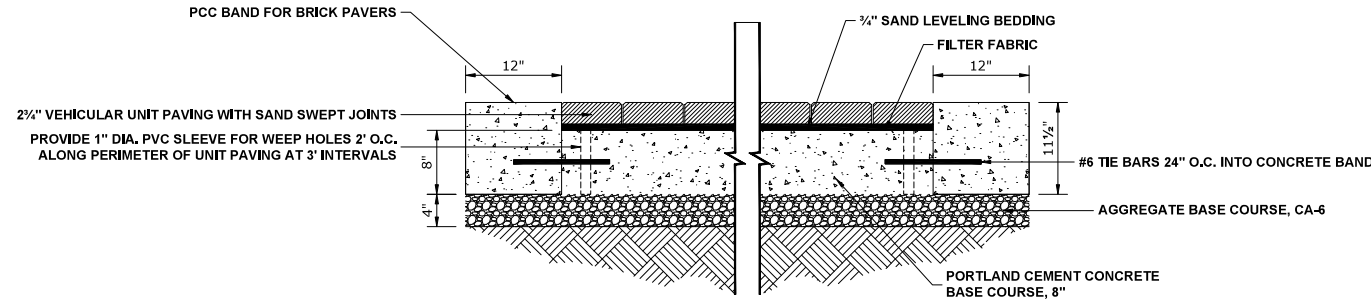
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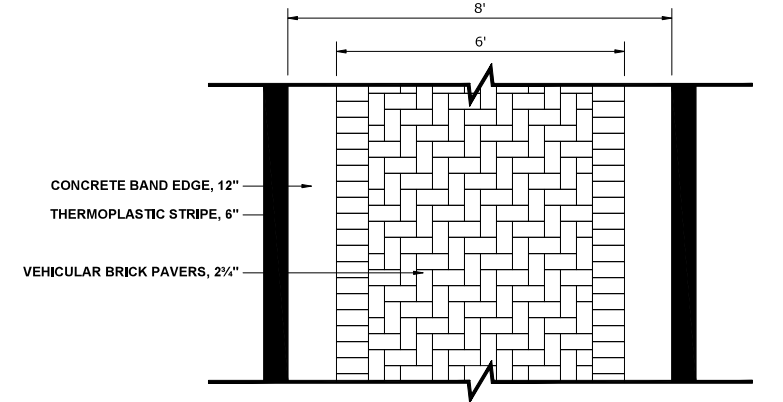
**BRICK PAVER SIDEWALK
(CROSS SECTION)**



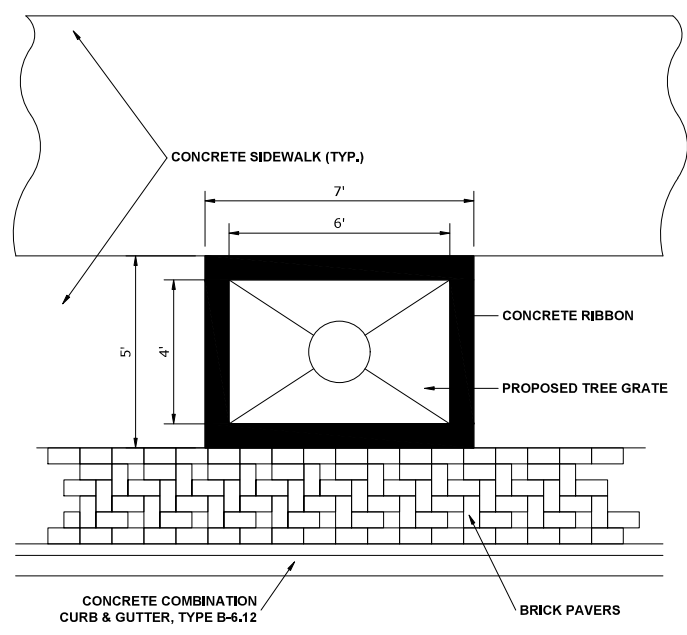
TREE GRATE FRAME MOUNTING



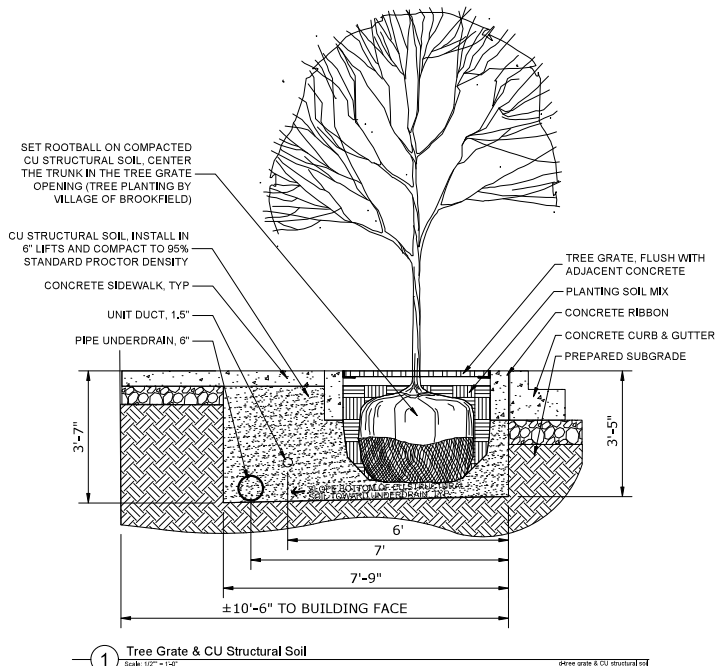
**BRICK PAVER CROSS WALK
(CROSS SECTION)**



**BRICK PAVER CROSS WALK
(PLAN VIEW)**



**TREE GRATE ASSEMBLY
(PLAN VIEW)**



**BRICK PAVER SIDEWALK
(PLAN VIEW)**

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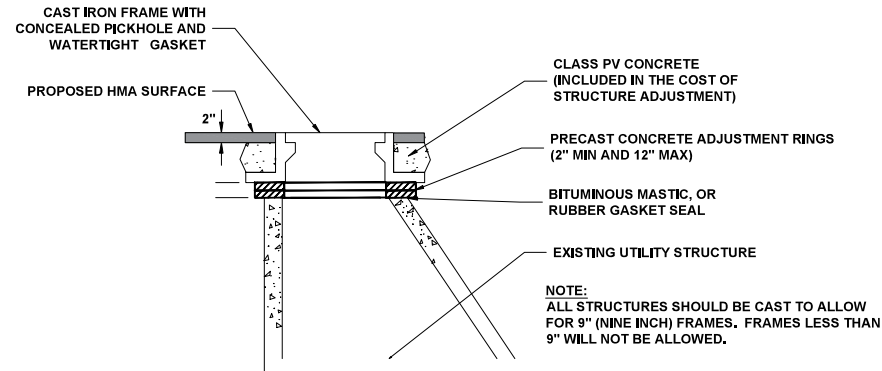
DESIGNED	- -	REVISED	-
DRAWN	- ECW, SB, GD, DMM, LW	REVISED	-
CHECKED	- -	REVISED	-
DATE	- 11-7-24	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

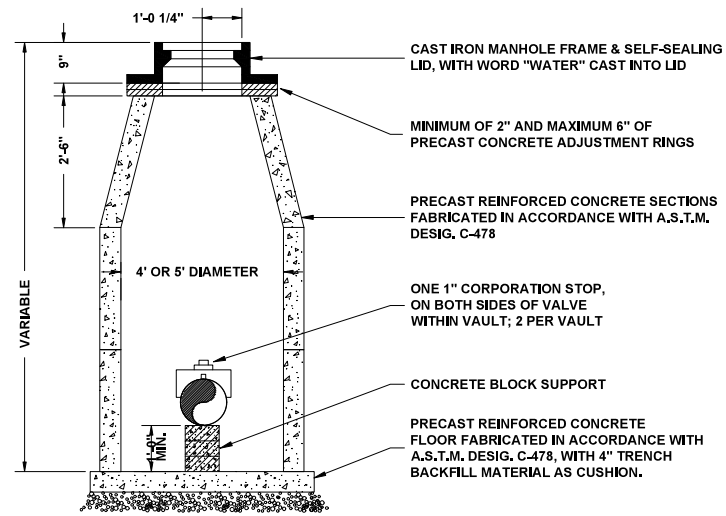
PAVING AND UTILITY DETAILS

SCALE: NONE	SHEET NO. 2 OF 5 SHEETS	STA. _____ TO STA. _____
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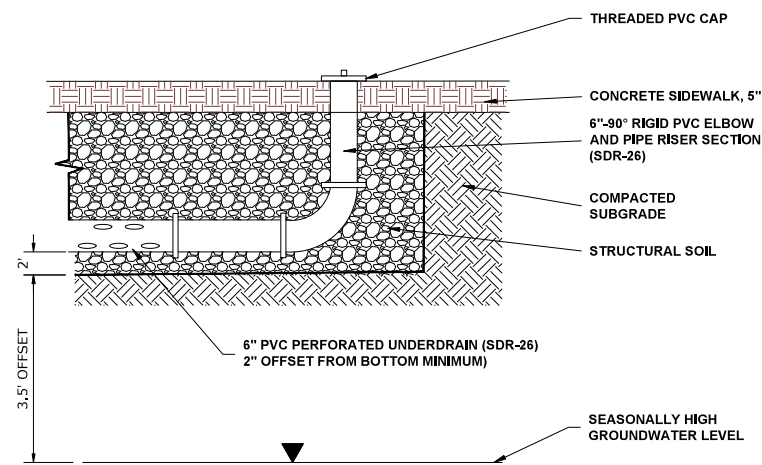
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1694/1408	21-00134-00-RS	COOK	68	26
FED. ROAD DIST. NO. 1 ILLINOIS		CONTRACT NO. 61K86 FED. AID PROJECT		



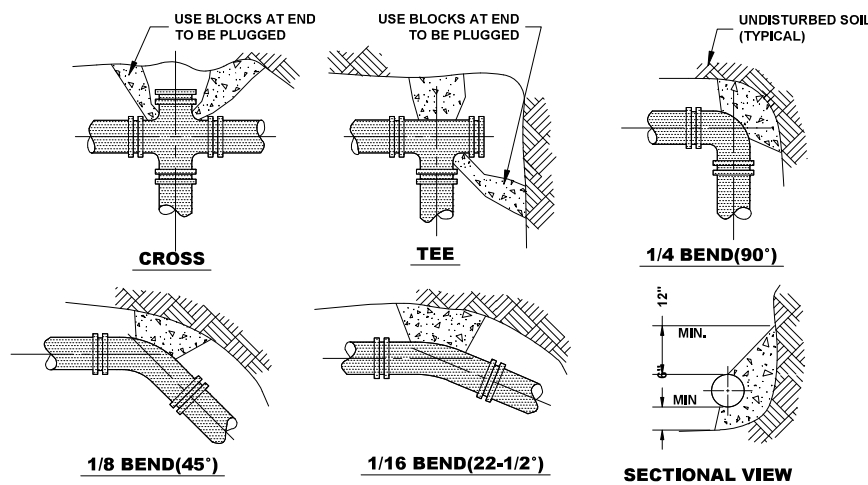
STRUCTURE ADJUSTMENT



STANDARD VALVE VAULT

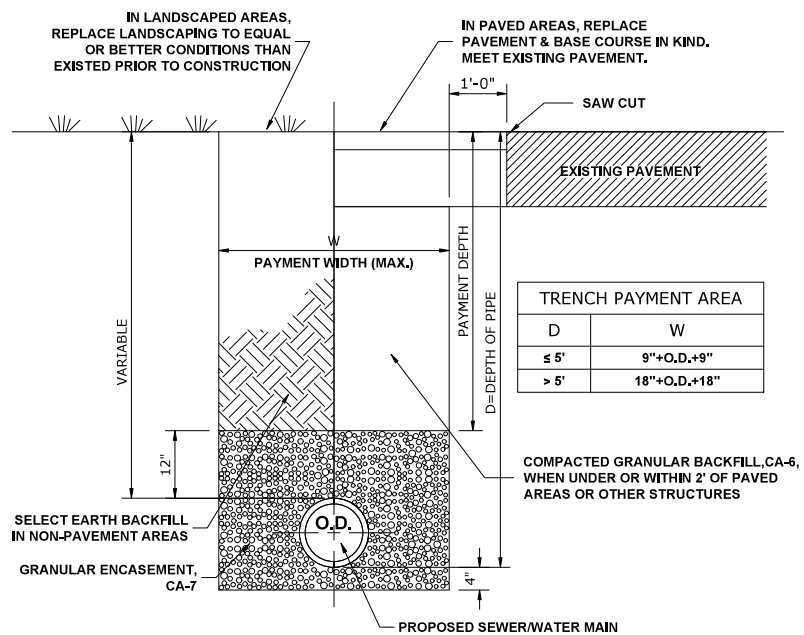


CLEANOUT



NOTE:
 1. THRUST BLOCKS TO BE USED AT 1/16(22-1/2") OR GREATER BENDS & AT ALL ENDS TO BE PLUGGED.
 2. PRECAST CONCRETE THRUST BLOCKS TO BE PLACED AGAINST FIRM, UNDISTURBED SOIL.

THRUST BLOCK



TYPICAL SEWER AND WATER MAIN TRENCH

DRAINAGE AND UTILITIES NOTES

THE LOCATIONS OF EXISTING DRAINAGE STRUCTURES, STORM SEWERS, COMBINED SEWERS, TELEPHONE LINES, COMMUNICATION LINES, ELECTRIC LINES, GAS MAINS, AND WATER SERVICES ARE APPROXIMATE AND THEIR SPECIFIC LOCATIONS ARE TO BE DETERMINED IN THE FIELD AT NO COMPENSATION TO THE CONTRACTOR.

COORDINATION OF ALL UTILITY WORK INVOLVED WITHIN THE CONSTRUCTION AREAS SHALL BE SUBJECT TO DISCUSSION AND CLARIFICATION AT A PRECONSTRUCTION MEETING.

WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE OR PUBLIC DRAINAGE STRUCTURES OR SEWERS UNTIL PERMANENT CONNECTIONS TO SEWERS ARE BUILT AND IN SERVICE. THIS WORK SHALL BE PAID FOR AS TEMPORARY DRAINAGE CONNECTIONS.

IF, DURING CONSTRUCTION OPERATIONS, ANY LOOSE MATERIALS ARE DEPOSITED IN THE FLOW LINES OF GUTTERS OR DRAINAGE STRUCTURES SO THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, THE OBSTRUCTING MATERIALS SHALL BE REMOVED AT THE CLOSE OF EACH WORK DAY. AT THE CONCLUSION OF THE CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES ARE TO BE FREE OF ALL DIRT, DEBRIS, AND OBSTRUCTING MATERIALS. THE WORK SPECIFIED ABOVE WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF PROPOSED ITEMS BEING CONSTRUCTED.

THE CONTRACTOR SHALL VERIFY THE TYPE OF ALL WATER MAIN HARDWARE INCLUDING VALVES, FIRE HYDRANTS, VALVE BOXES, CORPORATION STOPS, CURB STOPS, AND WATER SERVICES BOXES WITH THE UTILITY SUPERINTENDENT PRIOR TO ORDERING SUCH MATERIAL.

ON ALL IMPROVEMENTS, THE FRAMES AND LIDS OF EXISTING CATCH BASINS, INLETS, MANHOLES, AND VALVE VAULTS WHICH ARE TO BE ABANDONED DUE TO CONSTRUCTION OF THIS IMPROVEMENT ARE TO REMAIN THE PROPERTY OF THE VILLAGE OF BROOKFIELD AND BE SALVAGED. THE CONTRACTOR IS TO DELIVER FRAMES AND LIDS TO THE VILLAGE OF BROOKFIELD PUBLIC WORKS DEPARTMENT.

ANY COSTS FOR SHEETING OR SHORING REQUIRED FOR SEWER INSTALLATION OR OTHER CONSTRUCTION ELEMENTS REQUIRING RELATIVELY DEEP EXCAVATIONS SHALL BE INCLUDED IN THE PARTICULAR PAYMENT ITEM AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ANY SUPPLEMENTAL WORK ASSOCIATED WITH THE MAINTENANCE OF TRENCH SIDES OR OTHER EXCAVATED AREAS.

ALL ABANDONED SEWERS SHALL BE PLUGGED AT BOTH ENDS WITH AT LEAST 2 FEET LONG NON-SHRINK CONCRETE OR MORTAR PLUG. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE PAY ITEMS FOR REMOVING AND/OR FILLING THE VARIOUS TYPES OF STRUCTURES.

SEWER PIPE INSTALLED ON THIS PROJECT SHALL CONFORM TO THE FOLLOWING STANDARD:

TYPE OF PIPE	MATERIAL STANDARD	JOINT STANDARD
REINFORCED CONCRETE PIPE	ASTM C-76	ASTM C-443
POLYVINYLCHLORIDE PIPE, SDR 26	ASTM D-2241	ASTM D-3139
DUCTILE IRON PIPE, CLASS 52	ASTM A-21.51	ASTM A-21.11

Drawing file: W:\Projects_by_Village\Brookfield\12521005 - Brookfield And 3700 Block of Grand LAF0_Details_Roadway.dwg Nov 08, 2024 - 8:05am



9933 Roosevelt Road
 Westchester, IL 60154-2780
 Phone: 708-645-0300
 www.hancock.com

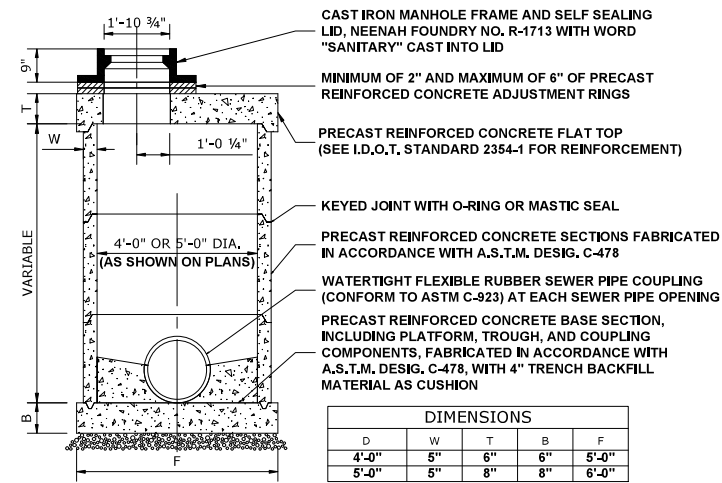
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DRAWN	- ECW, SB, GD, DMM, LW	REVISED	-
CHECKED	-	REVISED	-
DATE	11-7-24	REVISED	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

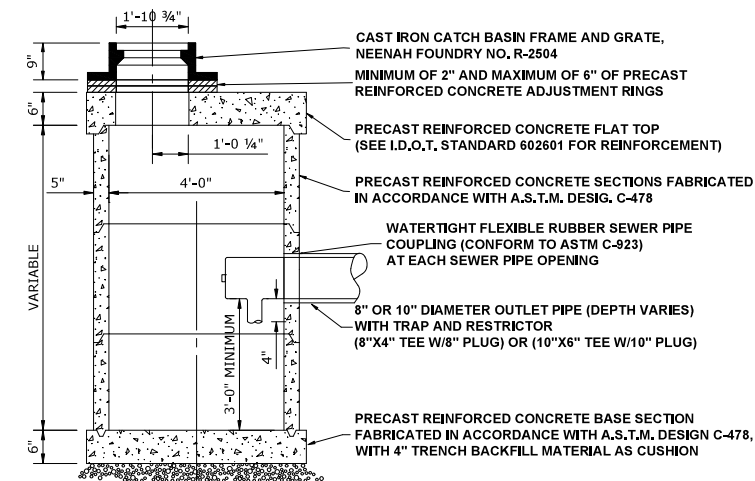
PAVING AND UTILITY DETAILS

SCALE: NONE SHEET NO. 4 OF 5 SHEETS STA. TO STA.

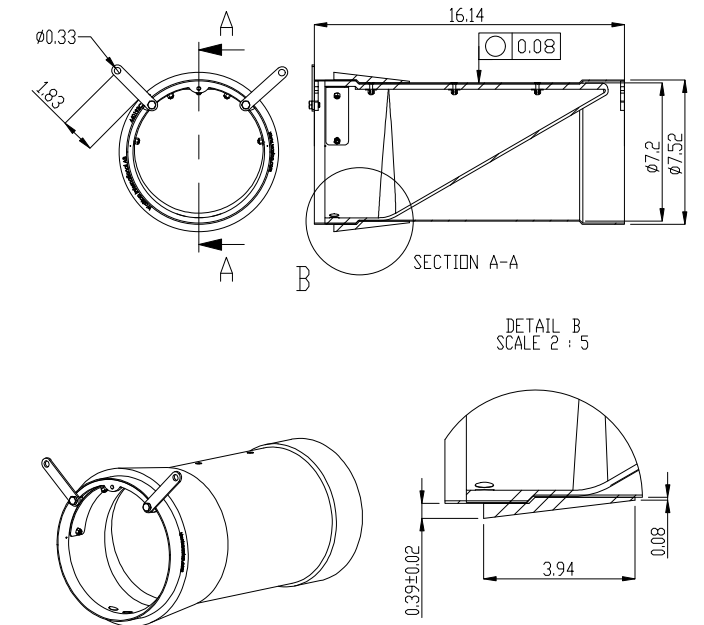
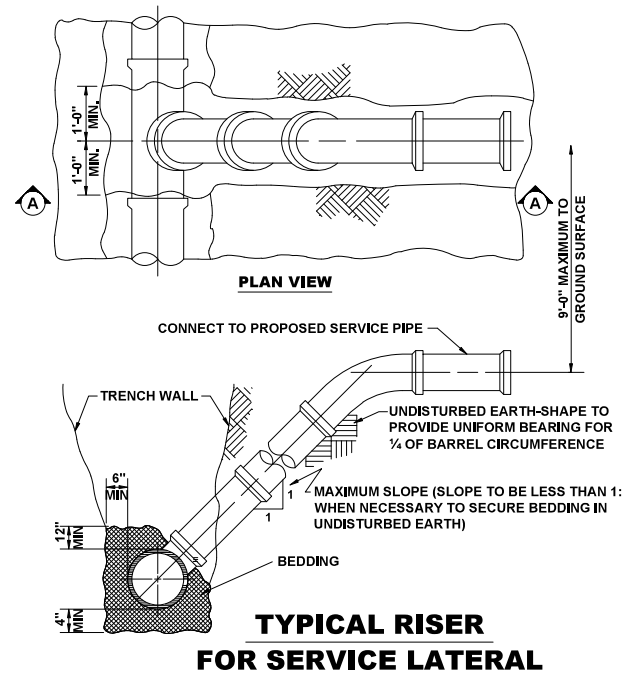
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1694/1408	21-00134-00-RS	COOK	68	28
CONTRACT NO.			61K86	
FED. ROAD DIST. NO. 1 ILLINOIS			FED. AID PROJECT	



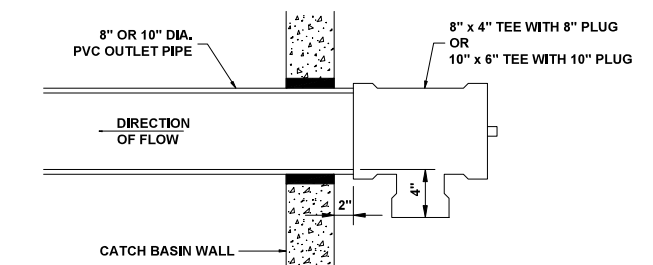
**RESTRICTED DEPTH (COMBINED)
SANITARY MANHOLE**



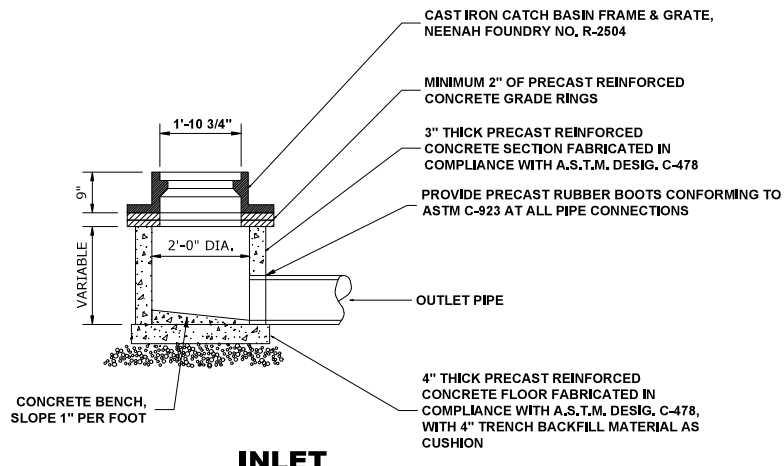
RESTRICTED DEPTH CATCH BASIN



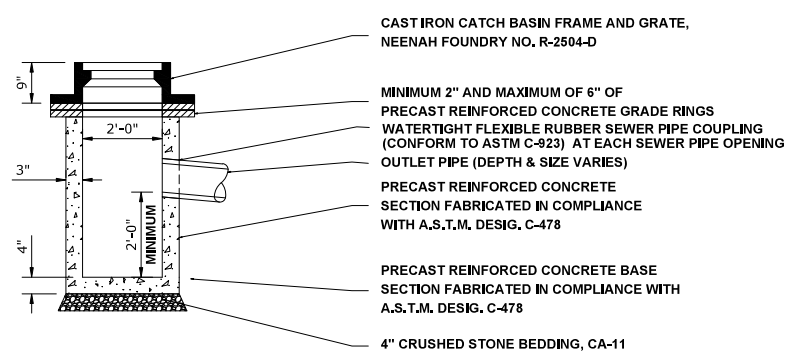
CHECK VALVE, 8"



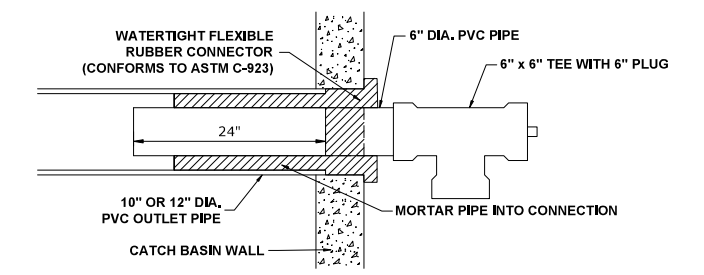
8"X4"/10"X6" CATCH BASIN TRAP AND RESTRICTOR



INLET



CATCH BASIN, TYPE C



DRAINAGE RESTRICTOR

Nov 08, 2024 - 8:05am
Drawing file: W:\Projects_by_Village\Brookfield\12521005 - Brookfield And 3700 Block of Grand LAF0\Details_Roadway.dwg



Civil Engineers
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 Established 1911

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DESIGNED	- -	REVISED	-
DRAWN	ECW, SB, GD, DMM, LW	REVISED	-
CHECKED	- -	REVISED	-
DATE	11-7-24	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**








PAVING AND UTILITY DETAILS

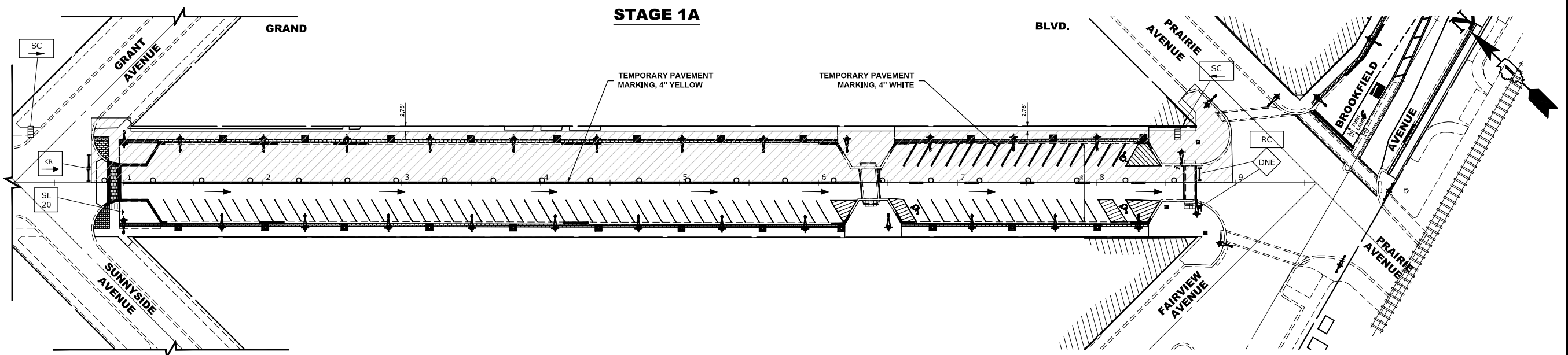
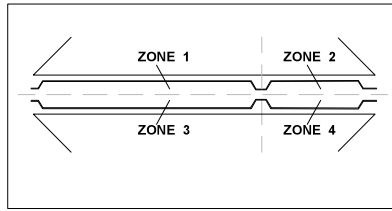
SCALE: NONE SHEET NO. 5 OF 5 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1694/1408	21-00134-00-RS	COOK	68	29
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 61K86	
FED. AID PROJECT				

LEGEND OF SYMBOLS					
SYMBOL	DESCRIPTION	CODE & SIZE	SYMBOL	DESCRIPTION	CODE & SIZE
		W21-I115 36"x18" R2-1 36"x48" R2-1106P 36"x18"		STOP	R1-1 30"x30"
		M6-1(0) 21"x15"			R3-2 24"x24"
		M6-1(0) 21"x15"			R3-1 24"x24"
		W6-3(0) 48"x48"		KEEP RIGHT	R4-7a 24"x30"
		W20-3 48"x48"		KEEP LEFT	R4-8a 24"x30"
		W20-I103 48"x48"		WRONG WAY	R5-1a 36"x24"
		R5-1 30"x30"		SIDEWALK CLOSED USE OTHER SIDE	R11-1102 24"x30"
	ROAD CLOSED	R11-2 48"x30"		SIDEWALK CLOSED USE OTHER SIDE	R11-1102 24"x30"
	NO PARKING	R7-1 12"x18"		ROAD CLOSED TO THRU TRAFFIC	R11-4 60"x30"
		W1-3R(0) 48"x48"			W1-7 24" x 12"
		W1-3L(0) 48"x48"			W24-1R(0) 48"x48"

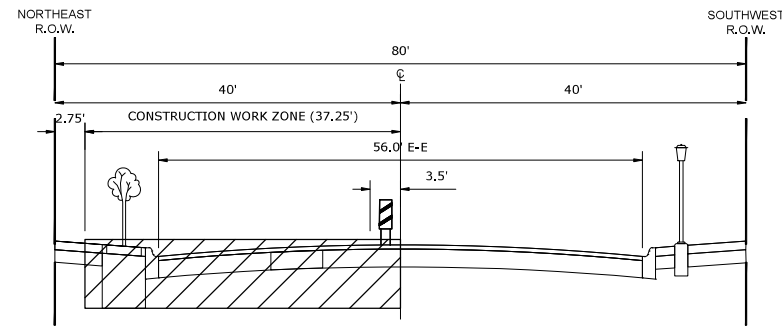
LEGEND

-  CONSTRUCTION WORK ZONE
-  DIRECTION OF TRAFFIC FLOW
-  DRUMS OR TYPE II BARRICADES
-  TYPE III BARRICADE
-  TYPE II BARRICADE OR DRUM IN TYPICAL CROSS SECTION (SIDEWALK CLOSURES NEED TO USE DETECTABLE PEDESTRIAN BARRICADES)
-  DETECTABLE PEDESTRIAN BARRICADE
-  TEMPORARY ACCESS (PRIVATE ENTRANCE)



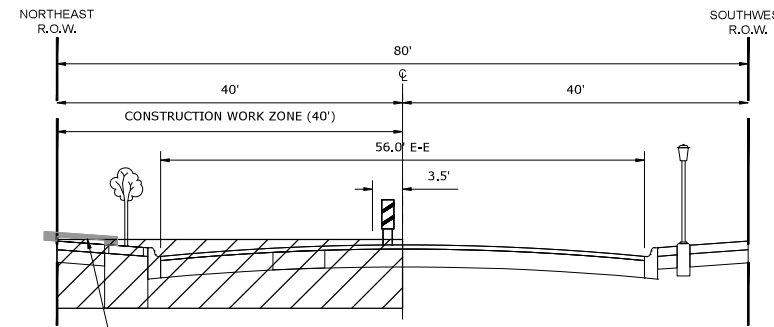
STAGE 1A CONSTRUCTION

STAGE 1B CONSTRUCTION



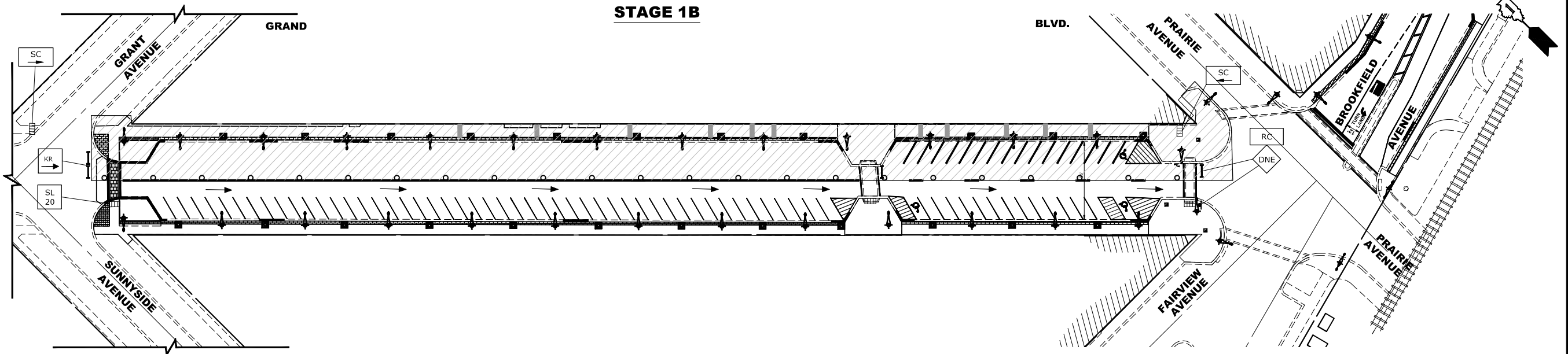
TYPICAL SECTION DURING STAGE 1A CONSTRUCTION (GRAND BOULEVARD)

1. WORK DURING THIS STAGE SHALL INCLUDE THE REMOVAL AND REPLACEMENT OR CURB AND GUTTER AND SIDEWALK, INSTALLATION OF BRICK PAVER SIDEWALK, EARTH EXCAVATION AND INSTALLATION OF UNDERDRAIN, PLACEMENT OF STRUCTURAL SOIL AND INSTALLATION OF TREE GRATES, REMOVAL AND REPLACEMENT OF EXISTING LIGHTING AND CONDUIT, INSTALLATION OF BRICK PAVER CROSSWALKS, AND DECORATIVE MASONRY WALL WITHIN ZONE 1 AND 2.
2. NO OPEN EXCAVATIONS ARE TO BE LEFT OVERNIGHT. ALL TRENCHES MUST BE BACKFILLED AT THE END OF THE DAY.
3. IDOT STANDARD 701301-04, 701501-06, AND THE DETOUR PLAN SHALL BE USED AS APPLICABLE TO ESTABLISH TRAFFIC CONTROL AND PROTECTION NECESSARY FOR COMPLETING THE PROPOSED WORK.
4. ONE WAY TRAFFIC ON GRAND BOULEVARD SHALL BE MAINTAINED AT ALL TIMES THROUGHOUT THE DURATION OF THIS STAGE.
5. BUSINESSES ON EITHER SIDE OF THE STREET ARE TO REMAIN ACCESSIBLE AT ALL TIMES THROUGH THE USE OF 40201000 AGGREGATE FOR TEMPORARY ACCESS, X4021000 TEMPORARY ACCESS (PRIVATE ENTRANCE), AND X4420210 TEMPORARY PATCHING AS DIRECTED BY THE ENGINEER.
6. DURING STAGE 1A, THE CONTRACTOR WILL HAVE FULL ACCESS TO THE PAVEMENT IN ZONE 2 FOR PERFORMING CONSTRUCTION ACTIVITIES EACH DAY FROM 6:30AM-4:30PM. BY 4:30PM EACH DAY, THE CONTRACTOR WILL BE RESPONSIBLE FOR PREPARING THE WORK ZONE AND TRAFFIC CONTROL TO MAKE ALL PARKING SPACES AT ZONE 2 ACCESSIBLE TO PEDESTRIANS. THE CONTRACTOR WILL HAVE FULL ACCESS TO ZONE 1 AT ALL TIMES FOR CONSTRUCTION ACTIVITIES AND STAGING OF MATERIALS AND EQUIPMENT.
7. ONCE THE CONTRACTOR STARTS REMOVALS FOR ANY PORTION OF THIS STAGE, THE IMPROVEMENTS AND RESTORATION WORK SHALL BE COMPLETED WITHIN 45 CALENDAR DAYS. LIQUIDATED DAMAGES TO APPLY AT THE END OF 45 CALENDAR DAYS FROM START OF REMOVAL IF THE IMPROVEMENTS AND RESTORATION HAVE NOT BEEN COMPLETED.



TYPICAL SECTION DURING STAGE 1B CONSTRUCTION (GRAND BOULEVARD)

1. WORK DURING THIS STAGE SHALL INCLUDE THE REMOVAL AND REPLACEMENT OR CURB AND GUTTER AND SIDEWALK, INSTALLATION OF BRICK PAVER SIDEWALK, EARTH EXCAVATION AND INSTALLATION OF UNDERDRAIN, PLACEMENT OF STRUCTURAL SOIL AND INSTALLATION OF TREE GRATES, REMOVAL AND REPLACEMENT OF EXISTING LIGHTING AND CONDUIT, INSTALLATION OF BRICK PAVER CROSSWALKS, AND DECORATIVE MASONRY WALL WITHIN ZONE 1 AND 2.
2. NO OPEN EXCAVATIONS ARE TO BE LEFT OVERNIGHT. ALL TRENCHES MUST BE BACKFILLED AT THE END OF THE DAY.
3. IDOT STANDARD 701301-04, 701501-06, AND THE DETOUR PLAN SHALL BE USED AS APPLICABLE TO ESTABLISH TRAFFIC CONTROL AND PROTECTION NECESSARY FOR COMPLETING THE PROPOSED WORK.
4. ONE WAY TRAFFIC ON GRAND BOULEVARD SHALL BE MAINTAINED AT ALL TIMES THROUGHOUT THE DURATION OF THIS STAGE.
5. BUSINESSES ON EITHER SIDE OF THE STREET ARE TO REMAIN ACCESSIBLE AT ALL TIMES THROUGH THE USE OF 40201000 AGGREGATE FOR TEMPORARY ACCESS, X4021000 TEMPORARY ACCESS (PRIVATE ENTRANCE), AND X4420210 TEMPORARY PATCHING AS DIRECTED BY THE ENGINEER.
6. DURING STAGE 1A, THE CONTRACTOR WILL HAVE FULL ACCESS TO THE PAVEMENT IN ZONE 2 FOR PERFORMING CONSTRUCTION ACTIVITIES EACH DAY FROM 6:30AM-4:30PM. BY 4:30PM EACH DAY, THE CONTRACTOR WILL BE RESPONSIBLE FOR PREPARING THE WORK ZONE AND TRAFFIC CONTROL TO MAKE ALL PARKING SPACES AT ZONE 2 ACCESSIBLE TO PEDESTRIANS. THE CONTRACTOR WILL HAVE FULL ACCESS TO ZONE 1 AT ALL TIMES FOR CONSTRUCTION ACTIVITIES AND STAGING OF MATERIALS AND EQUIPMENT.
7. ONCE THE CONTRACTOR STARTS REMOVALS FOR ANY PORTION OF THIS STAGE, THE IMPROVEMENTS AND RESTORATION WORK SHALL BE COMPLETED WITHIN 45 CALENDAR DAYS. LIQUIDATED DAMAGES TO APPLY AT THE END OF 45 CALENDAR DAYS FROM START OF REMOVAL IF THE IMPROVEMENTS AND RESTORATION HAVE NOT BEEN COMPLETED.



STAGE 1B



CVI Engineers
Municipal Consultants
Established 1911

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Westchester, IL 60154-2782
Phone: 708-845-0800
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DESIGNED --
DRAWN -- ECW, SB, GD, DMM, LW
CHECKED --
DATE -- 11-7-24

REVISED --
REVISED --
REVISED --
REVISED --

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MAINTENANCE OF TRAFFIC AND STAGING PLAN

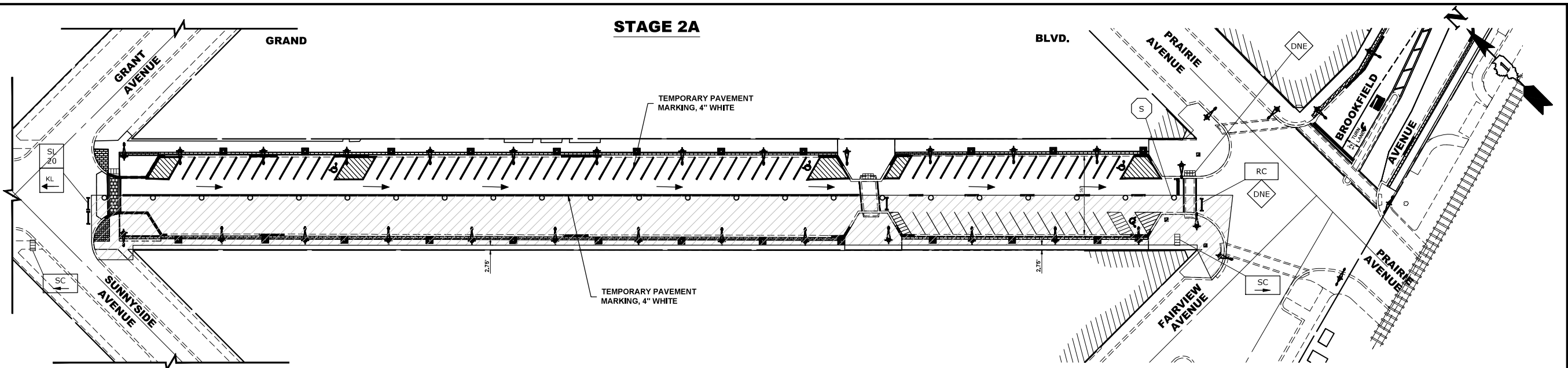
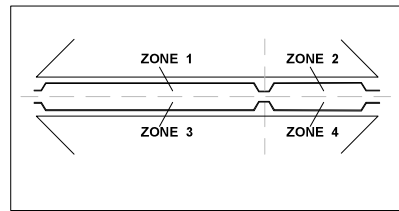
SCALE: 1" = 40' SHEET NO. 2 OF 8 SHEETS STA. 0+00 TO STA. 19+00

F.A.U. RTE. 1694/1408	SECTION 21-00134-00-RS	COUNTY COOK	TOTAL SHEETS 68	SHEET NO. 31
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 61K86	
FED. AID PROJECT				

E.H.E. PROJECT NO. 1252100501

LEGEND

- CONSTRUCTION WORK ZONE
- DIRECTION OF TRAFFIC FLOW
- DRUMS OR TYPE II BARRICADES
- TYPE III BARRICADE
- TYPE II BARRICADE OR DRUM IN TYPICAL CROSS SECTION (SIDEWALK CLOSURES NEED TO USE DETECTABLE PEDESTRIAN BARRICADES)
- DETECTABLE PEDESTRIAN BARRICADE
- TEMPORARY ACCESS (PRIVATE ENTRANCE)

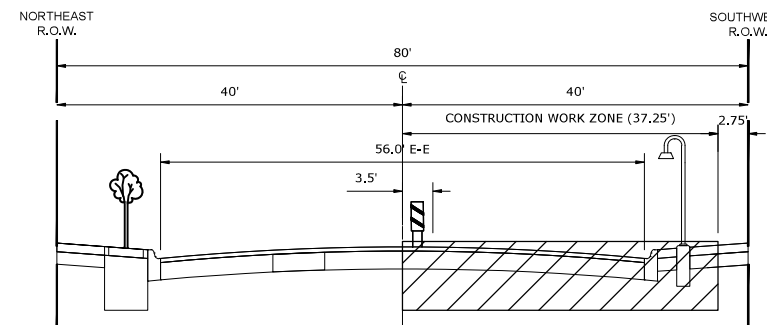


STAGE 2A CONSTRUCTION

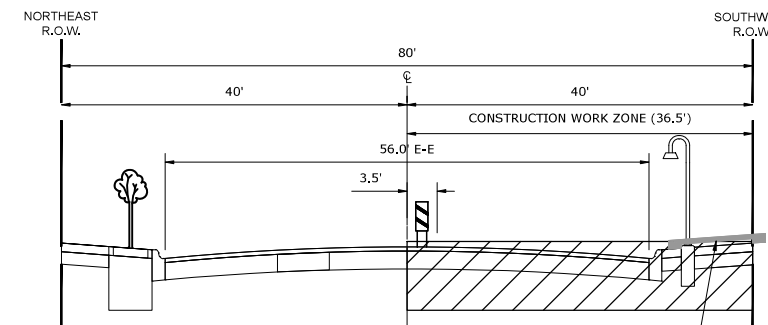
1. WORK DURING THIS STAGE SHALL INCLUDE THE REMOVAL AND REPLACEMENT OR CURB AND GUTTER AND SIDEWALK, INSTALLATION OF BRICK PAVER SIDEWALK, EARTH EXCAVATION AND INSTALLATION OF UNDERDRAIN, PLACEMENT OF STRUCTURAL SOIL AND INSTALLATION OF TREE GRATES, REMOVAL AND REPLACEMENT OF EXISTING LIGHTING AND CONDUIT, AND INSTALLATION OF BRICK PAVER CROSSWALKS WITHIN ZONE 3 AND 4.
2. NO OPEN EXCAVATIONS ARE TO BE LEFT OVERNIGHT. ALL TRENCHES MUST BE BACKFILLED AT THE END OF THE DAY.
3. IDOT STANDARD 701301-04, 701501-06, AND THE DETOUR PLAN SHALL BE USED AS APPLICABLE TO ESTABLISH TRAFFIC CONTROL AND PROTECTION NECESSARY FOR COMPLETING THE PROPOSED WORK.
4. ONE WAY TRAFFIC ON GRAND BOULEVARD SHALL BE MAINTAINED AT ALL TIMES THROUGHOUT THE DURATION OF THIS STAGE.
5. BUSINESSES ON EITHER SIDE OF THE STREET ARE TO REMAIN ACCESSIBLE AT ALL TIMES THROUGH THE USE OF 40201000 AGGREGATE FOR TEMPORARY ACCESS, X4021000 TEMPORARY ACCESS (PRIVATE ENTRANCE), AND X4420210 TEMPORARY PATCHING AS DIRECTED BY THE ENGINEER.
6. DURING STAGE 2A, THE CONTRACTOR WILL HAVE FULL ACCESS TO THE PAVEMENT IN ZONE 4 FOR PERFORMING CONSTRUCTION ACTIVITIES EACH DAY FROM 6:30AM-4:30PM. BY 4:30PM EACH DAY, THE CONTRACTOR WILL BE RESPONSIBLE FOR PREPARING THE WORK ZONE AND TRAFFIC CONTROL TO MAKE ALL PARKING SPACES AT ZONE 4 ACCESSIBLE TO PEDESTRIANS. THE CONTRACTOR WILL HAVE FULL ACCESS TO ZONE 3 AT ALL TIMES FOR CONSTRUCTION ACTIVITIES AND STAGING OF MATERIALS AND EQUIPMENT.
7. ONCE THE CONTRACTOR STARTS REMOVALS FOR ANY PORTION OF THIS STAGE, THE IMPROVEMENTS AND RESTORATION WORK SHALL BE COMPLETED WITHIN 45 CALENDAR DAYS. LIQUIDATED DAMAGES TO APPLY AT THE END OF 45 CALENDAR DAYS FROM START OF REMOVAL IF THE IMPROVEMENTS AND RESTORATION HAVE NOT BEEN COMPLETED.

STAGE 2B CONSTRUCTION

1. WORK DURING THIS STAGE SHALL INCLUDE THE REMOVAL AND REPLACEMENT OR CURB AND GUTTER AND SIDEWALK, INSTALLATION OF BRICK PAVER SIDEWALK, EARTH EXCAVATION AND INSTALLATION OF UNDERDRAIN, PLACEMENT OF STRUCTURAL SOIL AND INSTALLATION OF TREE GRATES, REMOVAL AND REPLACEMENT OF EXISTING LIGHTING AND CONDUIT, AND INSTALLATION OF BRICK PAVER CROSSWALKS WITHIN ZONE 3 AND 4.
2. NO OPEN EXCAVATIONS ARE TO BE LEFT OVERNIGHT. ALL TRENCHES MUST BE BACKFILLED AT THE END OF THE DAY.
3. IDOT STANDARD 701301-04, 701501-06, AND THE DETOUR PLAN SHALL BE USED AS APPLICABLE TO ESTABLISH TRAFFIC CONTROL AND PROTECTION NECESSARY FOR COMPLETING THE PROPOSED WORK.
4. ONE WAY TRAFFIC ON GRAND BOULEVARD SHALL BE MAINTAINED AT ALL TIMES THROUGHOUT THE DURATION OF THIS STAGE.
5. BUSINESSES ON EITHER SIDE OF THE STREET ARE TO REMAIN ACCESSIBLE AT ALL TIMES THROUGH THE USE OF 40201000 AGGREGATE FOR TEMPORARY ACCESS, X4021000 TEMPORARY ACCESS (PRIVATE ENTRANCE), AND X4420210 TEMPORARY PATCHING AS DIRECTED BY THE ENGINEER.
6. DURING STAGE 2A, THE CONTRACTOR WILL HAVE FULL ACCESS TO THE PAVEMENT IN ZONE 4 FOR PERFORMING CONSTRUCTION ACTIVITIES EACH DAY FROM 6:30AM-4:30PM. BY 4:30PM EACH DAY, THE CONTRACTOR WILL BE RESPONSIBLE FOR PREPARING THE WORK ZONE AND TRAFFIC CONTROL TO MAKE ALL PARKING SPACES AT ZONE 4 ACCESSIBLE TO PEDESTRIANS. THE CONTRACTOR WILL HAVE FULL ACCESS TO ZONE 3 AT ALL TIMES FOR CONSTRUCTION ACTIVITIES AND STAGING OF MATERIALS AND EQUIPMENT.
7. ONCE THE CONTRACTOR STARTS REMOVALS FOR ANY PORTION OF THIS STAGE, THE IMPROVEMENTS AND RESTORATION WORK SHALL BE COMPLETED WITHIN 45 CALENDAR DAYS. LIQUIDATED DAMAGES TO APPLY AT THE END OF 45 CALENDAR DAYS FROM START OF REMOVAL IF THE IMPROVEMENTS AND RESTORATION HAVE NOT BEEN COMPLETED.

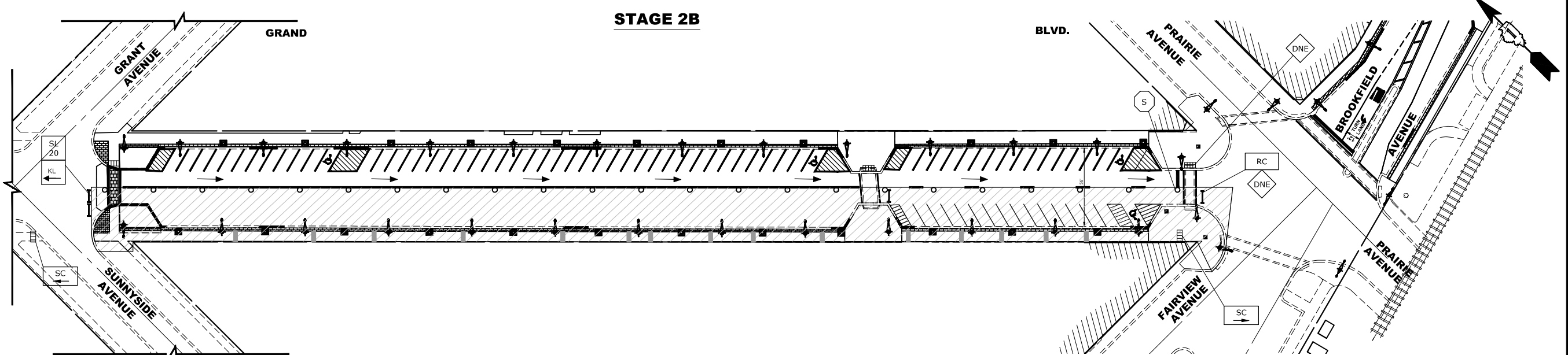


TYPICAL SECTION DURING STAGE 2A CONSTRUCTION (GRAND BOULEVARD)



TYPICAL SECTION DURING STAGE 2B CONSTRUCTION (GRAND BOULEVARD)

STAGE 2B



Drawing file: W:\Projects_by_Village\Brookfield\12521005 - Brookfield And 3700 Block of Grand Blvd\Site\Main of Traffic.ang Nov 08, 2024 - 8:08am

HANCOCK ENGINEERING
 CMI Engineers
 Municipal Consultants
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 9933 Roosevelt Road
 Westchester, IL 60154-2780
 Phone: 708-845-0800
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DESIGNED	ECW, SB, GD, DMM, LW	REVIS	
DRAWN		REVIS	
CHECKED		REVIS	
DATE	11-7-24	REVIS	

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION








MAINTENANCE OF TRAFFIC AND STAGING PLAN
 SCALE: 1" = 40'
 SHEET NO. 3 OF 8 SHEETS
 STA. 0+00 TO STA. 19+00

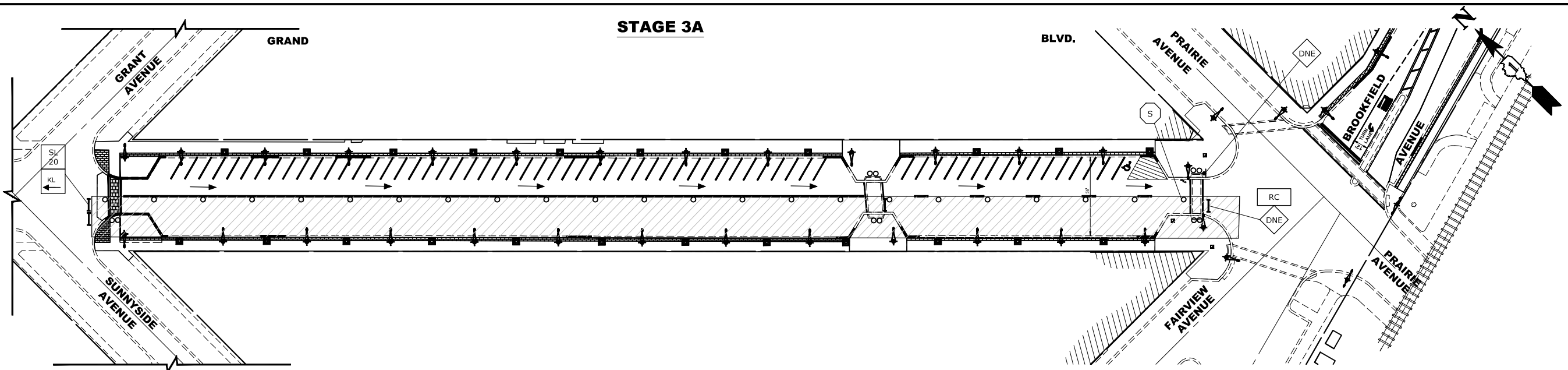
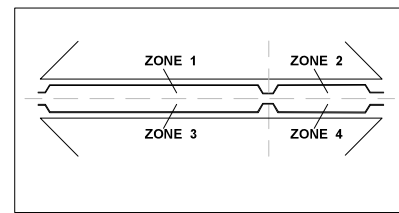
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1694/1408	21-00134-00-RS	COOK	68	32
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 61K86	
			FED. AID PROJECT	

E.H.E. PROJECT NO. 1252100501

Drawing file: W:\projects_by_village\brookfield\12521005 - brookfield and 3700 block of grand boulevard\Site Maint of Traffic.dwg Nov 12, 2024 - 2:33pm

LEGEND

-  CONSTRUCTION WORK ZONE
-  DIRECTION OF TRAFFIC FLOW
-  DRUMS OR TYPE II BARRICADES
-  TYPE III BARRICADE
-  TYPE II BARRICADE OR DRUM IN TYPICAL CROSS SECTION (SIDEWALK CLOSURES NEED TO USE DETECTABLE PEDESTRIAN BARRICADES)
-  DETECTABLE PEDESTRIAN BARRICADE
-  TEMPORARY ACCESS (PRIVATE ENTRANCE)

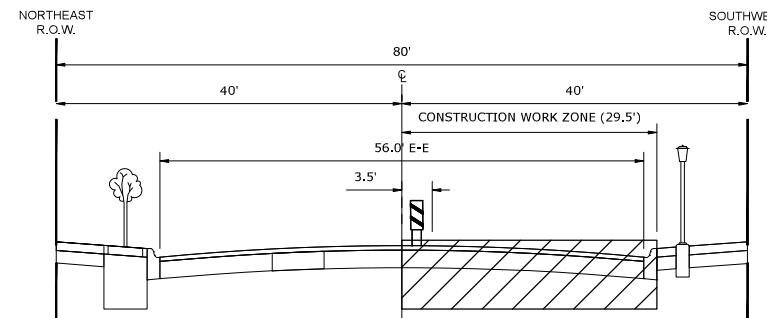


STAGE 3A CONSTRUCTION

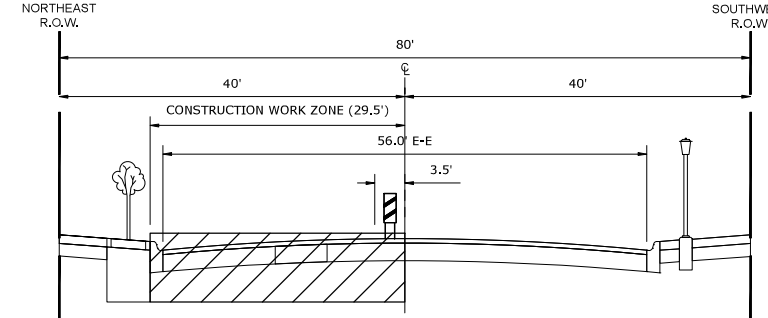
1. WORK DURING THIS STAGE SHALL CONSIST OF THE MILLING OF PAVEMENT, SHAPING AND GRADING OF THE AGGREGATE BASE COURSE, AND INSTALLATION OF HMA BINDER COURSE IN ZONE 3 AND ZONE 4. PAVEMENT PATCHING MAY ALSO BE INCLUDED IN THIS STAGE ONCE THE MILLING HAS BEEN COMPLETED AND THE PAVEMENT CONDITION CAN BE ASSESSED.
2. IDOT STANDARD 701301-04, 701501-06, AND THE DETOUR PLAN SHALL BE USED AS APPLICABLE TO ESTABLISH TRAFFIC CONTROL AND PROTECTION NECESSARY FOR COMPLETING THE PROPOSED WORK.
3. ONE WAY TRAFFIC ON GRAND BOULEVARD SHALL BE MAINTAINED AT ALL TIMES THROUGHOUT THE DURATION OF THIS STAGE.
4. BUSINESSES ON EITHER SIDE OF THE STREET ARE TO REMAIN ACCESSIBLE AT ALL TIMES.
5. ONCE THE PAVEMENT HAS BEEN MILLED, THE CONTRACTOR SHALL INSTALL THE HMA BINDER COURSE WITHIN 7 CALENDAR DAYS. IF THE ENGINEER DETERMINES THAT PAVEMENT PATCHING IS REQUIRED, THEN THE CONTRACTOR WILL HAVE AN ADDITIONAL 7 CALENDAR DAYS FOR A TOTAL OF 14 CALENDAR DAYS FROM PAVEMENT MILLING TO REMOVE AND REPLACE THE PAVEMENT AND INSTALL THE HMA BINDER COURSE. LIQUIDATED DAMAGES TO APPLY AT THE END OF 1) 7 CALENDAR DAYS FROM START OF MILLING IF HMA BINDER HAS NOT BEEN INSTALLED AND NO PATCHING IS REQUIRED OR 2) 14 CALENDAR DAYS FROM THE START OF MILLER IF HMA BINDER HAS NOT BEEN INSTALLED AND PATCHING IS REQUIRED.

STAGE 3B CONSTRUCTION

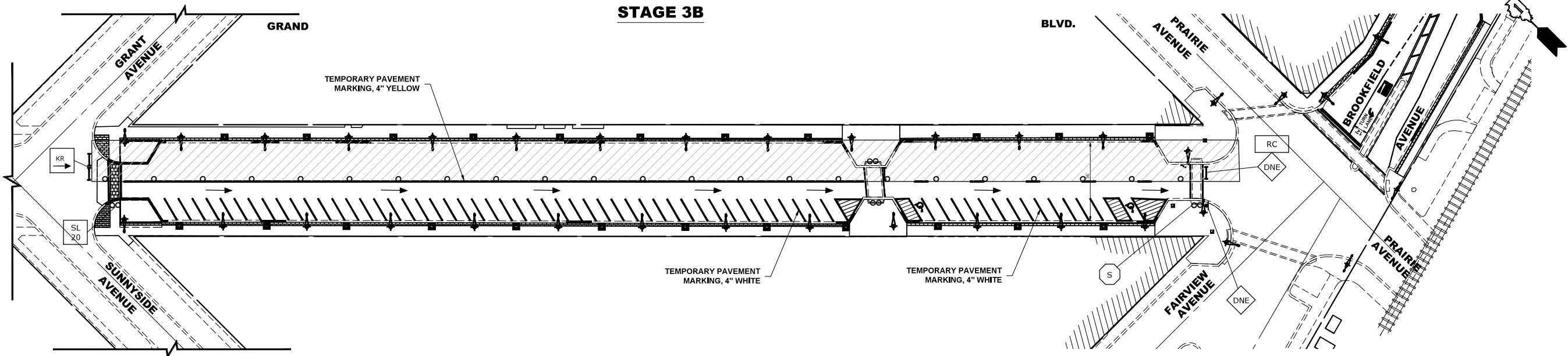
1. WORK DURING THIS STAGE SHALL CONSIST OF THE MILLING OF PAVEMENT, SHAPING AND GRADING OF THE AGGREGATE BASE COURSE, AND INSTALLATION OF HMA BINDER COURSE IN ZONE 1 AND ZONE 2. PAVEMENT PATCHING MAY ALSO BE INCLUDED IN THIS STAGE ONCE THE MILLING HAS BEEN COMPLETED AND THE PAVEMENT CONDITION CAN BE ASSESSED.
2. IDOT STANDARD 701301-04, 701501-06, AND THE DETOUR PLAN SHALL BE USED AS APPLICABLE TO ESTABLISH TRAFFIC CONTROL AND PROTECTION NECESSARY FOR COMPLETING THE PROPOSED WORK.
3. ONE WAY TRAFFIC ON GRAND BOULEVARD SHALL BE MAINTAINED AT ALL TIMES THROUGHOUT THE DURATION OF THIS STAGE.
4. BUSINESSES ON EITHER SIDE OF THE STREET ARE TO REMAIN ACCESSIBLE AT ALL TIMES.
5. ONCE THE PAVEMENT HAS BEEN MILLED, THE CONTRACTOR SHALL INSTALL THE HMA BINDER COURSE WITHIN 7 CALENDAR DAYS. IF THE ENGINEER DETERMINES THAT PAVEMENT PATCHING IS REQUIRED, THEN THE CONTRACTOR WILL HAVE AN ADDITIONAL 7 CALENDAR DAYS FOR A TOTAL OF 14 CALENDAR DAYS FROM PAVEMENT MILLING TO REMOVE AND REPLACE THE PAVEMENT AND INSTALL THE HMA BINDER COURSE. LIQUIDATED DAMAGES TO APPLY AT THE END OF 1) 7 CALENDAR DAYS FROM START OF MILLING IF HMA BINDER HAS NOT BEEN INSTALLED AND NO PATCHING IS REQUIRED OR 2) 14 CALENDAR DAYS FROM THE START OF MILLER IF HMA BINDER HAS NOT BEEN INSTALLED AND PATCHING IS REQUIRED.



TYPICAL SECTION DURING STAGE 3A CONSTRUCTION
(GRAND BOULEVARD)



TYPICAL SECTION DURING STAGE 3B CONSTRUCTION
(GRAND BOULEVARD)



STAGE 3B

HANCOCK ENGINEERING
 CIVI Engineers
 Municipal Consultants
 Established 1911
 9933 Roosevelt Road
 Westchester, IL 60154-2780
 Phone: 708-845-0800
 www.hancock.com

DESIGNED	---	REVISED	---
DRAWN	ECW, SB, GD, DMM, LW	REVISED	---
CHECKED	---	REVISED	---
DATE	11-7-24	REVISED	---

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**








MAINTENANCE OF TRAFFIC AND STAGING PLAN

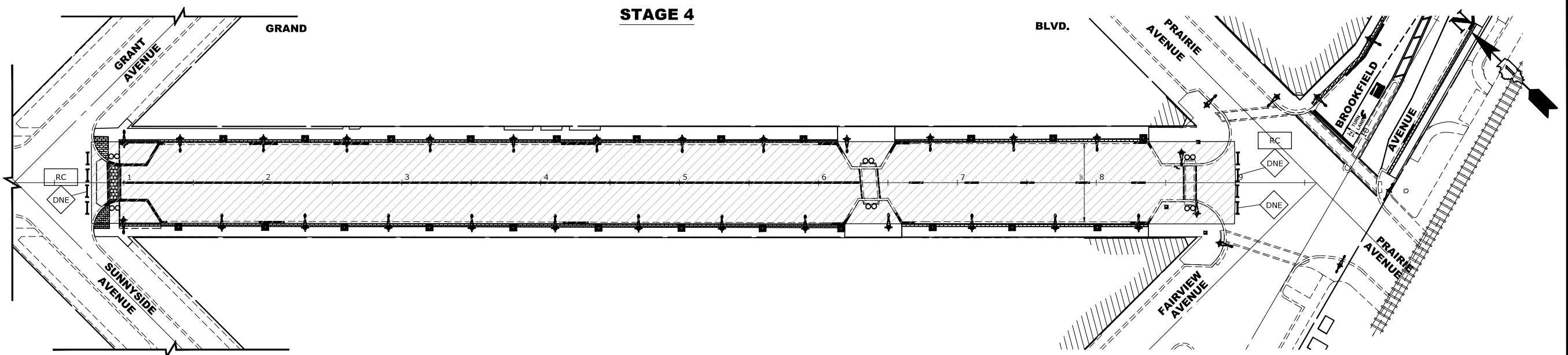
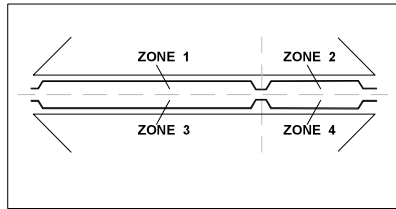
SCALE: 1" = 40' SHEET NO. 4 OF 8 SHEETS STA. 0+00 TO STA. 19+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1694/1408	21-00134-00-RS	COOK	68	33
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 61K86	
FED. AID PROJECT				

E.H.E. PROJECT NO. 1252100501

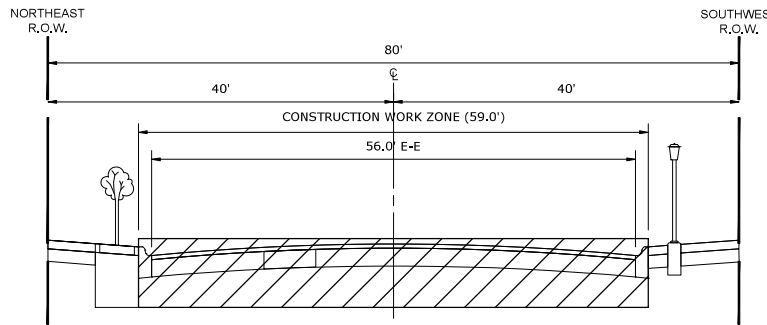
LEGEND

-  CONSTRUCTION WORK ZONE
-  DIRECTION OF TRAFFIC FLOW
-  DRUMS OR TYPE II BARRICADES
-  TYPE III BARRICADE
-  TYPE II BARRICADE OR DRUM IN TYPICAL CROSS SECTION (SIDEWALK CLOSURES NEED TO USE DETECTABLE PEDESTRIAN BARRICADES)
-  DETECTABLE PEDESTRIAN BARRICADE
-  TEMPORARY ACCESS (PRIVATE ENTRANCE)



STAGE 4 CONSTRUCTION

1. WORK DURING THIS STAGE SHALL CONSIST OF STRUCTURE ADJUSTMENTS WITHIN THE PAVEMENT, HMA SURFACE INSTALLATION, AND PAVEMENT MARKINGS FOR ZONE 1, 2, 3, AND 4.
2. IDOT STANDARD 701301-04, 701501-06, AND THE DETOUR PLAN SHALL BE USED AS APPLICABLE TO ESTABLISH TRAFFIC CONTROL AND PROTECTION NECESSARY FOR COMPLETING THE PROPOSED WORK.
3. THE CONTRACTOR MAY KEEP THE ROAD CLOSED IN THE CONSTRUCTION WORK ZONE DURING THE DAY WHILE CONSTRUCTION ACTIVITIES ARE TAKING PLACE BUT SHALL MAINTAIN ACCESSIBILITY TO LOCAL TRAFFIC AT ALL OTHER TIMES.
4. BUSINESSES ON EITHER SIDE OF THE STREET ARE TO REMAIN ACCESSIBLE AT ALL TIMES.
5. ONCE WORK HAS BEEN COMPLETED ON STAGE 3B, THE CONTRACTOR WILL HAVE 7 CALENDAR DAYS TO COMPLETE ALL WORK ASSOCIATED WITH THE STAGE. LIQUIDATED DAMAGES TO APPLY AT THE END OF 7 CALENDAR DAYS FROM COMPLETION OF STAGE 3B IF THE PAVEMENT MARKINGS HAVE NOT BEEN INSTALLED.



TYPICAL SECTION DURING STAGE 4 CONSTRUCTION
(GRAND BOULEVARD)

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DRAWN	ECW, SB, GD, DMM, LW	REVISED	--
CHECKED	--	REVISED	--
DATE	11-7-24	REVISED	--

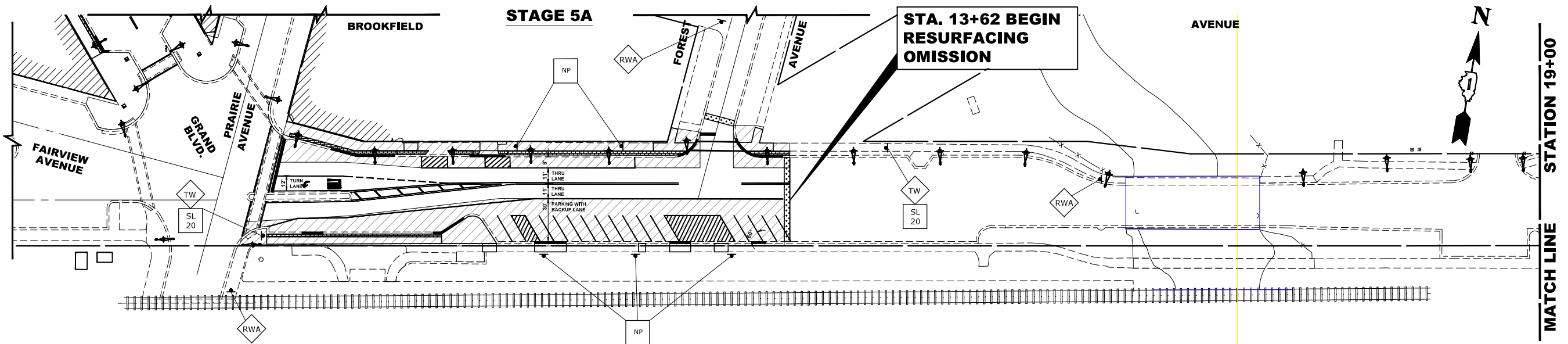
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC AND STAGING PLAN
 SCALE: 1" = 40' SHEET NO. 5 OF 8 SHEETS STA. 0+00 TO STA. 19+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1694/1408	21-00134-00-RS	COOK	68	34
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 61K86	
FED. AID PROJECT			E.H.E. PROJECT NO. 1252100501	

LEGEND

-  CONSTRUCTION WORK ZONE
-  DIRECTION OF TRAFFIC FLOW
-  DRUMS OR TYPE II BARRICADES
-  TYPE III BARRICADE
-  TYPE II BARRICADE OR DRUM IN TYPICAL CROSS SECTION (SIDEWALK CLOSURES NEED TO USE DETECTABLE PEDESTRIAN BARRICADES)
-  DETECTABLE PEDESTRIAN BARRICADE
-  TEMPORARY ACCESS (PRIVATE ENTRANCE)

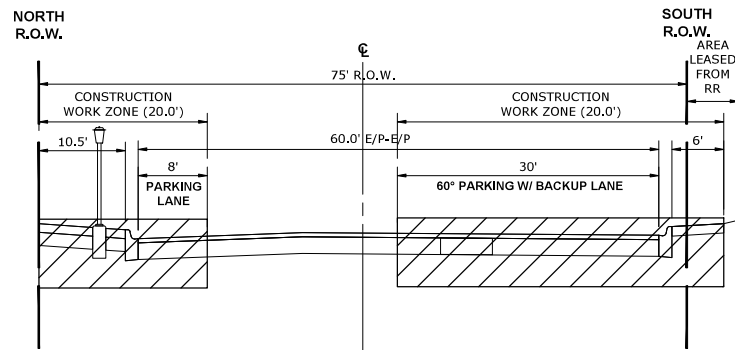


STAGE 5A CONSTRUCTION

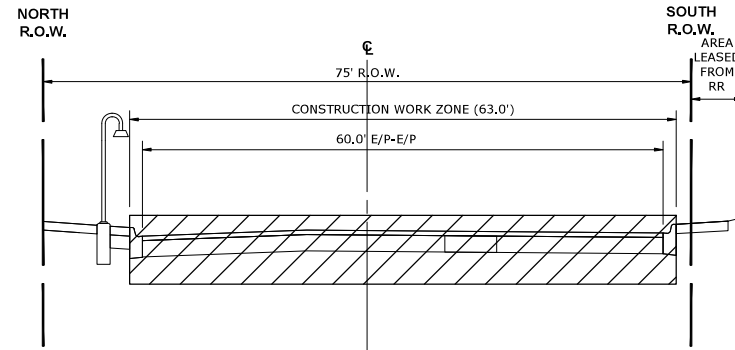
1. WORK DURING THIS STAGE SHALL INCLUDE REMOVAL AND REPLACEMENT OF CURB AND GUTTER, SIDEWALK, AND DRIVEWAY APRONS, INSTALLATION OF BRICK PAVER SIDEWALK, AND REMOVAL AND REPLACEMENT OF EXISTING LIGHTING AND CONDUIT.
2. NO OPEN EXCAVATIONS ARE TO BE LEFT OVERNIGHT. ALL TRENCHES MUST BE BACKFILLED AT THE END OF THE DAY.
3. IDOT STANDARD 701301-04, 701501-06, AND THE DETOUR PLAN SHALL BE USED AS APPLICABLE TO ESTABLISH TRAFFIC CONTROL AND PROTECTION NECESSARY FOR COMPLETING THE PROPOSED WORK.
4. TWO WAY TRAFFIC ON BROOKFIELD AVENUE SHALL BE MAINTAINED AT ALL TIMES THROUGHOUT THE DURATION OF THIS STAGE.
5. BUSINESSES ON THE NORTH SIDE OF THE STREET AND THE BROOKFIELD AVENUE METRA STATION ON THE SOUTH SIDE OF THE STREET ARE TO REMAIN ACCESSIBLE AT ALL TIMES THROUGH THE USE OF 40201000 AGGREGATE FOR TEMPORARY ACCESS, X4021000 TEMPORARY ACCESS (PRIVATE ENTRANCE), AND X4420210 TEMPORARY PATCHING AS DIRECTED BY THE ENGINEER.
6. ONCE THE CONTRACTOR STARTS REMOVALS FOR ANY PORTION OF THIS STAGE, THE IMPROVEMENTS AND RESTORATION WORK SHALL BE COMPLETED WITHIN 21 CALENDAR DAYS. LIQUIDATED DAMAGES TO APPLY AT THE END OF 21 CALENDAR DAYS FROM START OF REMOVAL IF THE IMPROVEMENTS AND RESTORATION HAVE NOT BEEN COMPLETED.

STAGE 5B CONSTRUCTION

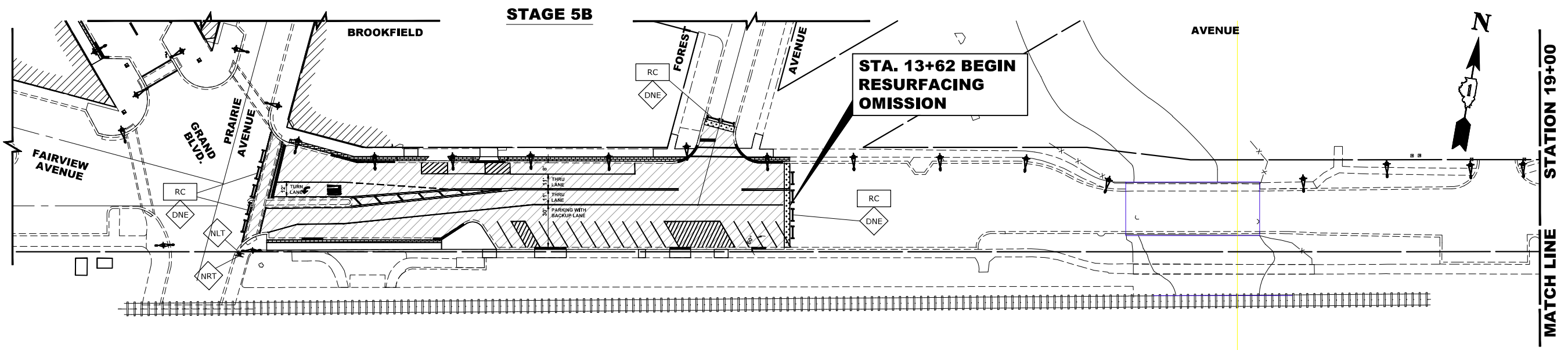
1. WORK DURING THIS STAGE SHALL CONSIST OF HMA BINDER COURSE INSTALLATION, STRUCTURE ADJUSTMENTS WITHIN THE PAVEMENT, HMA SURFACE INSTALLATION, AND PAVEMENT MARKINGS. PAVEMENT PATCHING MAY ALSO BE INCLUDED IN THIS STAGE ONCE THE MILLING HAS BEEN COMPLETED AND THE PAVEMENT CONDITION CAN BE ASSESSED.
2. IDOT STANDARD 701301-04, 701501-06, AND THE DETOUR PLAN SHALL BE USED AS APPLICABLE TO ESTABLISH TRAFFIC CONTROL AND PROTECTION NECESSARY FOR COMPLETING THE PROPOSED WORK.
3. THE CONTRACTOR MAY KEEP THE ROAD CLOSED IN THE CONSTRUCTION WORK ZONE DURING THE DAY WHILE CONSTRUCTION ACTIVITIES ARE TAKING PLACE BUT SHALL MAINTAIN ACCESSIBILITY TO LOCAL TRAFFIC AT ALL OTHER TIMES.
4. BUSINESSES ON THE NORTH SIDE OF THE STREET AND THE BROOKFIELD AVENUE METRA STATION ON THE SOUTH SIDE OF THE STREET ARE TO REMAIN ACCESSIBLE AT ALL TIMES. ONCE THE PAVEMENT HAS BEEN MILLED, THE CONTRACTOR SHALL COMPLETE THE WORK INCLUDED IN THIS STAGE WITHIN 21 CALENDAR DAYS. IF THE ENGINEER DETERMINES THAT PAVEMENT PATCHING IS REQUIRED, THEN THE CONTRACTOR WILL HAVE AN ADDITIONAL 7 CALENDAR DAYS FOR A TOTAL OF 14 CALENDAR DAYS FROM PAVEMENT MILLING TO REMOVE AND REPLACE THE PAVEMENT AND INSTALL THE HMA BINDER COURSE. LIQUIDATED DAMAGES TO APPLY AT THE END OF 21 CALENDAR DAYS FROM START PAVEMENT MILLING IF PAVEMENT MARKINGS HAVE NOT BEEN INSTALLED.



TYPICAL SECTION DURING STAGE 5A CONSTRUCTION (BROOKFIELD AVENUE)



TYPICAL SECTION DURING STAGE 5B CONSTRUCTION (BROOKFIELD AVENUE)



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DRAWN -- ECW, SB, GD, DMM, LW	REVISED --
CHECKED --	REVISED --
DATE -- 11-7-24	REVISED --

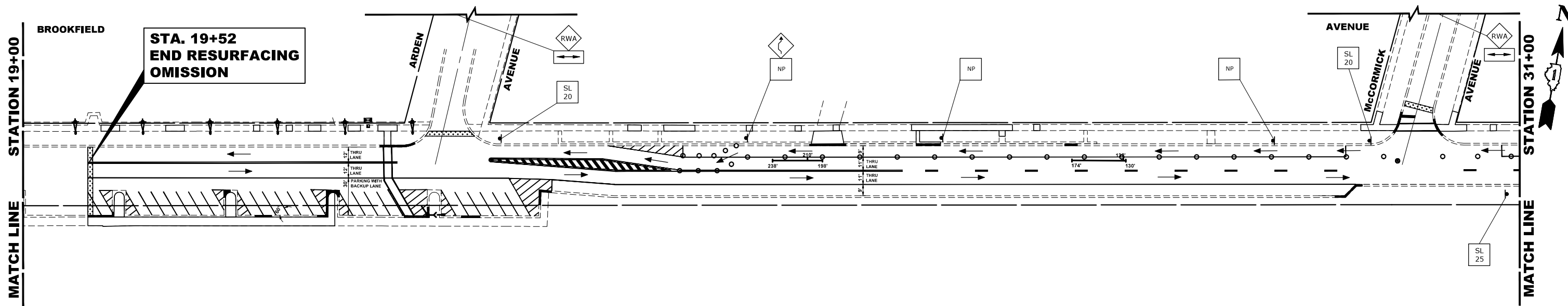
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MAINTENANCE OF TRAFFIC AND STAGING PLAN

SCALE: 1" = 40' SHEET NO. 6 OF 8 SHEETS STA. 0+00 TO STA. 19+00

F.A.U. RTE. 1694/1408	SECTION 21-00134-00-RS	COUNTY COOK	TOTAL SHEETS 68	SHEET NO. 35
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 61K86	
FED. AID PROJECT				

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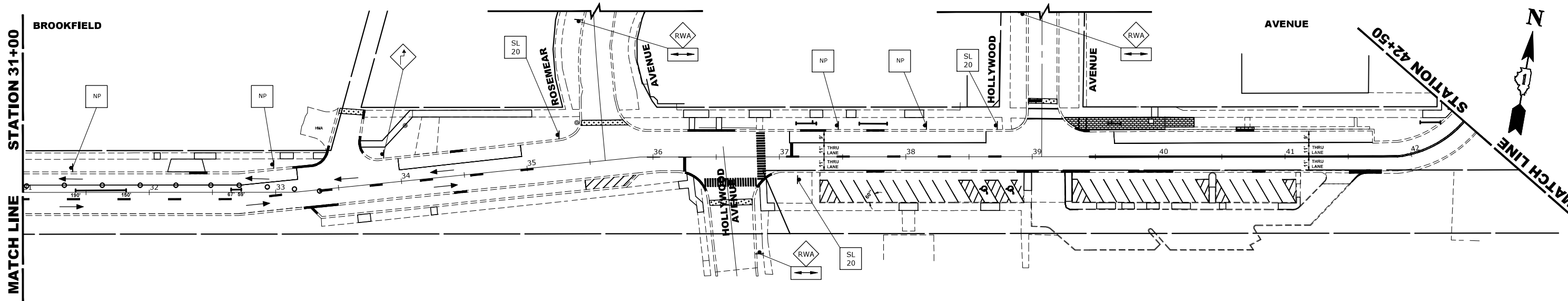


STAGE 6 CONSTRUCTION

1. WORK DURING THIS STAGE SHALL INCLUDE REMOVAL AND REPLACEMENT OF CURB AND GUTTER, SIDEWALK, AND DRIVEWAY APRONS, REPLACEMENT OF DETERIORATED DRAINAGE STRUCTURES OR SECTIONS OF COMBINED SEWER, MILLING OF THE PAVEMENT, PAVEMENT PATCHING, INSTALLATION OF HMA BINDER COURSE, STRUCTURE ADJUSTMENTS WITHIN THE PAVEMENT, INSTALLATION OF HMA SURFACE COURSE, PAVEMENT MARKINGS, ANY ASSOCIATED RESTORATION.
2. NO OPEN EXCAVATIONS ARE TO BE LEFT OVERNIGHT. ALL TRENCHES MUST BE BACKFILLED AT THE END OF THE DAY.
3. IDOT STANDARD 701301-04, 701501-06, AND THE DETOUR PLAN SHALL BE USED AS APPLICABLE TO ESTABLISH TRAFFIC CONTROL AND PROTECTION NECESSARY FOR COMPLETING THE PROPOSED WORK.
4. TWO WAY TRAFFIC ON BROOKFIELD AVENUE SHALL BE MAINTAINED AT ALL TIMES THROUGHOUT THE DURATION OF THIS STAGE.
5. WHILE SCHOOL IS IN SESSION AT RIVERSIDE-BROOKFIELD HIGH SCHOOL, THE CONTRACTOR SHALL ONLY WORK ON GOLF ROAD BETWEEN 9:00AM AND 3:00PM. BY 3:00PM EACH DAY, THE CONTRACTOR WILL BE RESPONSIBLE FOR PREPARING THE WORK ZONE AND TRAFFIC CONTROL TO MAKE THE AREA ACCESSIBLE TO ALL PEDESTRIANS AND VEHICLES TO ACCESS THE SCHOOL.
6. ONCE THE CONTRACTOR STARTS REMOVALS FOR ANY PORTION OF THIS STAGE, THE IMPROVEMENTS AND RESTORATION WORK SHALL BE COMPLETED WITHIN 75 CALENDAR DAYS. LIQUIDATED DAMAGES TO APPLY AT THE END OF 75 CALENDAR DAYS FROM START OF REMOVAL IF THE IMPROVEMENTS AND RESTORATION HAVE NOT BEEN COMPLETED.

LEGEND

- CONSTRUCTION WORK ZONE
- DIRECTION OF TRAFFIC FLOW
- DRUMS OR TYPE II BARRICADES
- TYPE III BARRICADE
- TYPE II BARRICADE OR DRUM IN TYPICAL CROSS SECTION (SIDEWALK CLOSURES NEED TO USE DETECTABLE PEDESTRIAN BARRICADES)
- DETECTABLE PEDESTRIAN BARRICADE
- TEMPORARY ACCESS (PRIVATE ENTRANCE)



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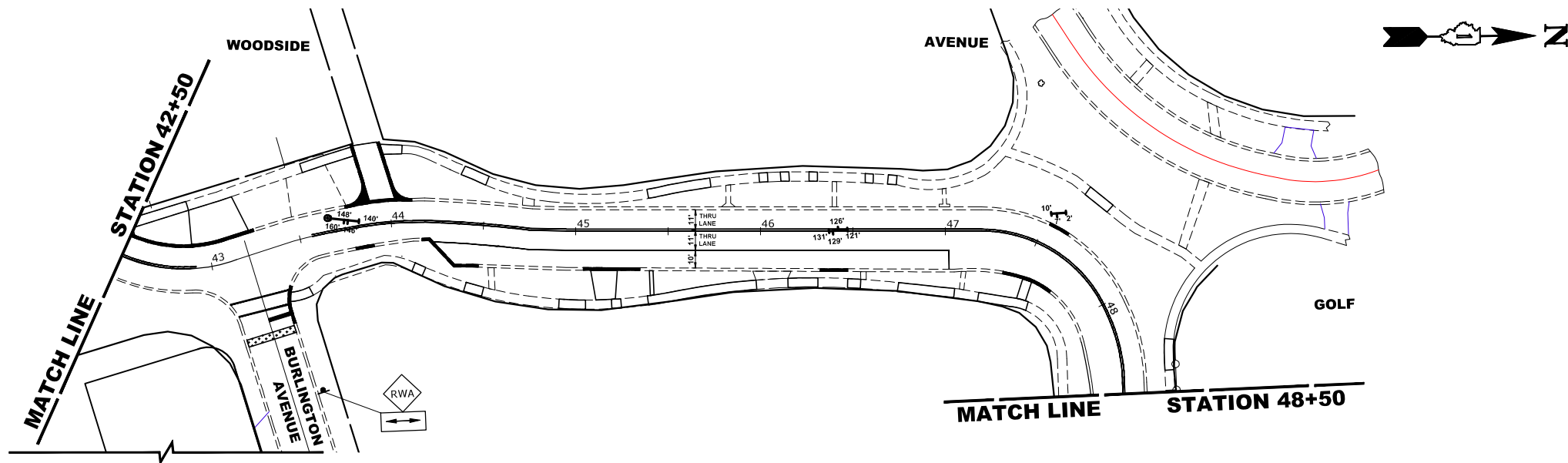
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CHECKED	--	REVISED	--
DATE	11-7-24	REVISED	--

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

MAINTENANCE OF TRAFFIC AND STAGING PLAN
 SCALE: 1" = 40'
 SHEET NO. 7 OF 8 SHEETS
 STA. 0+00 TO STA. 19+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1694/1408	21-00134-00-RS	COOK	68	36
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 61K86	
FED. AID PROJECT			E.H.E. PROJECT NO. 1252100501	

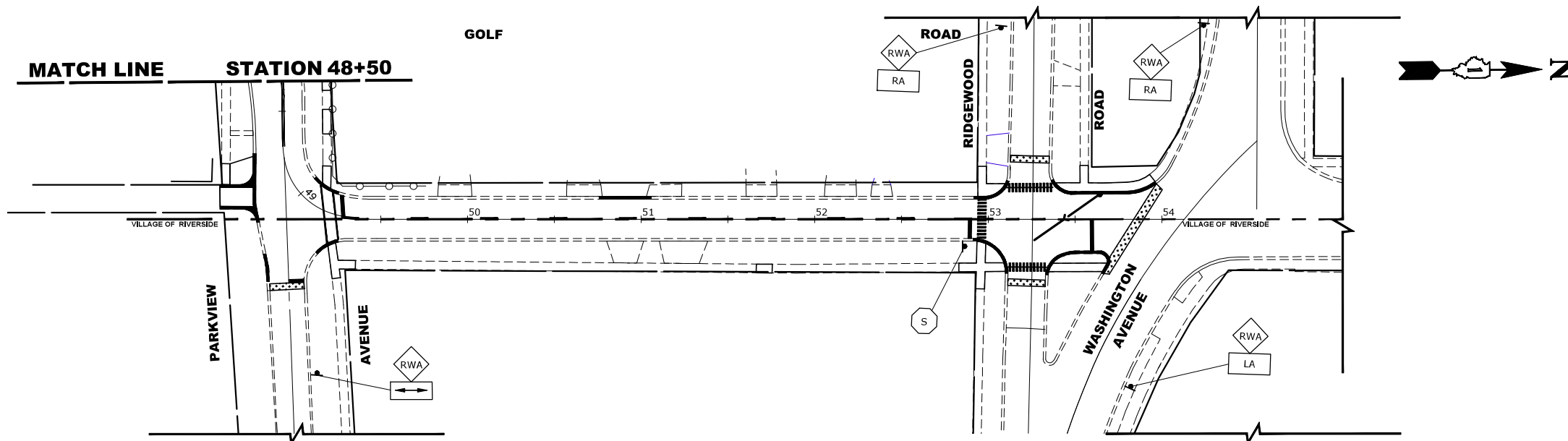


STAGE 6 CONSTRUCTION

1. WORK DURING THIS STAGE SHALL INCLUDE REMOVAL AND REPLACEMENT OF CURB AND GUTTER, SIDEWALK, AND DRIVEWAY APRONS, REPLACEMENT OF DETERIORATED DRAINAGE STRUCTURES OR SECTIONS OF COMBINED SEWER, MILLING OF THE PAVEMENT, PAVEMENT PATCHING, INSTALLATION OF HMA BINDER COURSE, STRUCTURE ADJUSTMENTS WITHIN THE PAVEMENT, INSTALLATION OF HMA SURFACE COURSE, PAVEMENT MARKINGS, ANY ASSOCIATED RESTORATION.
2. NO OPEN EXCAVATIONS ARE TO BE LEFT OVERNIGHT. ALL TRENCHES MUST BE BACKFILLED AT THE END OF THE DAY.
3. IDOT STANDARD 701301-04, 701501-06, AND THE DETOUR PLAN SHALL BE USED AS APPLICABLE TO ESTABLISH TRAFFIC CONTROL AND PROTECTION NECESSARY FOR COMPLETING THE PROPOSED WORK.
4. TWO WAY TRAFFIC ON BROOKFIELD AVENUE SHALL BE MAINTAINED AT ALL TIMES THROUGHOUT THE DURATION OF THIS STAGE.
5. WHILE SCHOOL IS IN SESSION AT RIVERSIDE-BROOKFIELD HIGH SCHOOL, THE CONTRACTOR SHALL ONLY WORK ON GOLF ROAD BETWEEN 9:00AM AND 3:00PM. BY 3:00PM EACH DAY, THE CONTRACTOR WILL BE RESPONSIBLE FOR PREPARING THE WORK ZONE AND TRAFFIC CONTROL TO MAKE THE AREA ACCESSIBLE TO ALL PEDESTRIANS AND VEHICLES TO ACCESS THE SCHOOL.
6. ONCE THE CONTRACTOR STARTS REMOVALS FOR ANY PORTION OF THIS STAGE, THE IMPROVEMENTS AND RESTORATION WORK SHALL BE COMPLETED WITHIN 75 CALENDAR DAYS. LIQUIDATED DAMAGES TO APPLY AT THE END OF 75 CALENDAR DAYS FROM START OF REMOVAL IF THE IMPROVEMENTS AND RESTORATION HAVE NOT BEEN COMPLETED.

LEGEND

- CONSTRUCTION WORK ZONE
- DIRECTION OF TRAFFIC FLOW
- DRUMS OR TYPE II BARRICADES
- TYPE III BARRICADE
- TYPE II BARRICADE OR DRUM IN TYPICAL CROSS SECTION (SIDEWALK CLOSURES NEED TO USE DETECTABLE PEDESTRIAN BARRICADES)
- DETECTABLE PEDESTRIAN BARRICADE
- TEMPORARY ACCESS (PRIVATE ENTRANCE)



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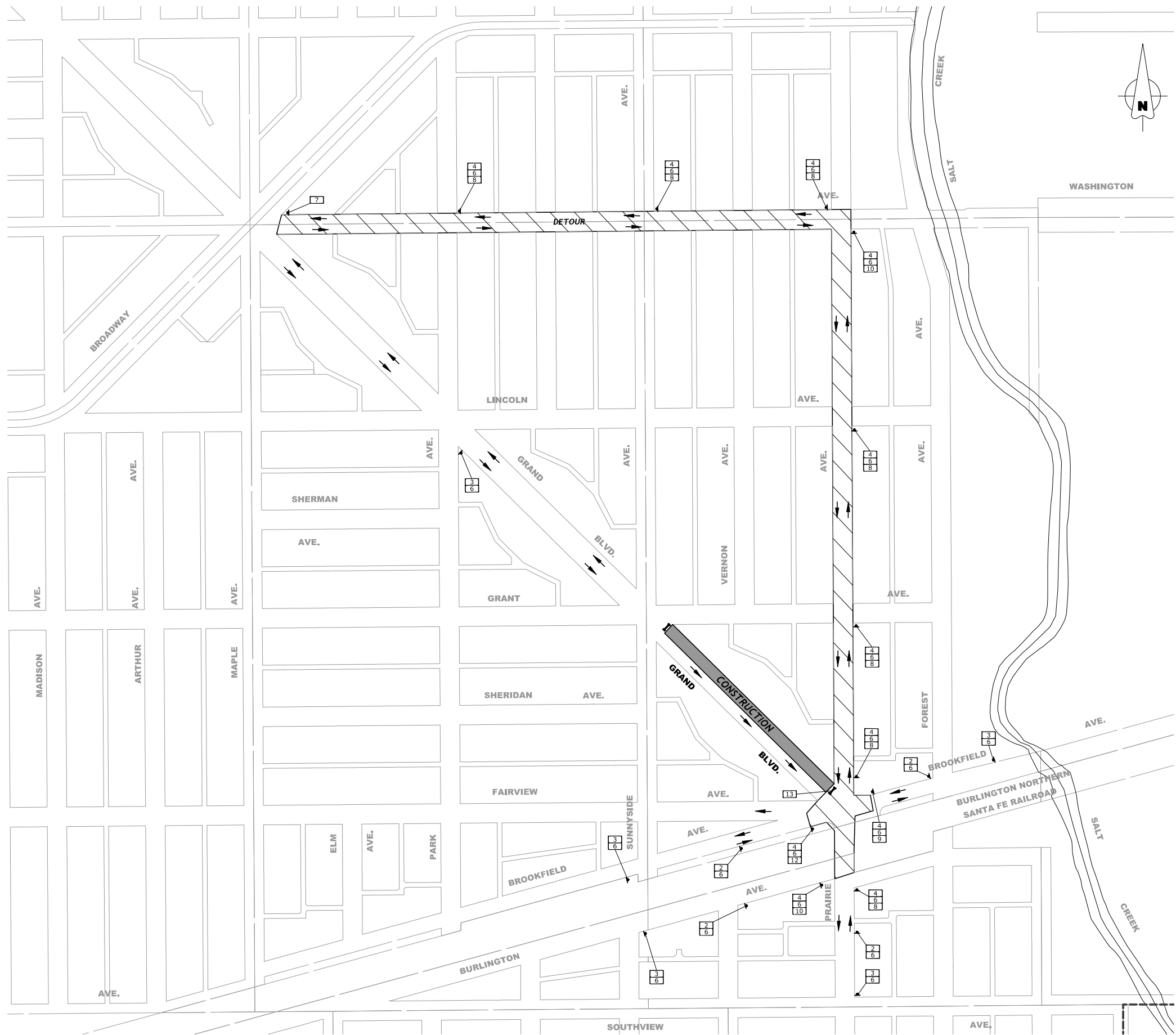
MAINTENANCE OF TRAFFIC AND STAGING PLAN

SCALE: 1" = 40' SHEET NO. 8 OF 8 SHEETS STA. 42+50 TO STA. 54+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1694/1408	21-00134-00-RS	COOK	68	37
CONTRACT NO. 61K86				
FED. ROAD DIST. NO. 1 ILLINOIS				FED. AID PROJECT

E.H.E. PROJECT NO. 1252100501

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LEGEND OF SYMBOLS		
SYMBOL	DESCRIPTION	CODE & SIZE
1	ROAD CLOSED AHEAD	W20-3 48"x48"
2	DETOUR AHEAD	W20-2 48"x48"
3	ROAD CONSTRUCTION AHEAD	W20-I103 48"x48"
4	NORTH	M3-1(O) 24"x12"
5	SOUTH	M3-3(O) 24"x12"
6	Grand Boulevard	M4-8 36"x12"
7	END DETOUR	M4-8 24"x12"
8	DETOUR	M4-9 30"x24"
9	DETOUR	M4-9 30"x24"
10	DETOUR	M4-9 30"x24"
11	DETOUR	M4-9R 24"x30"
12	DETOUR	M4-9L 24"x30"
13	ROAD CLOSED	R11-4 60"x30"
14	ROAD CLOSED TO THRU TRAFFIC	R11-4 60"x30"
15	Washington Avenue	M4-8 36"x12"
16	EAST	M3-2(O) 24"x12"
17	WEST	M3-4(O) 24"x12"
18	Brookfield Avenue	M4-8 36"x12"

NOTES :

- ALL LOCAL DETOURS SHALL BE APPROVED BY THE ENGINEER AT LEAST 48 HOURS PRIOR TO INSTALLATION.
- GRAND BOULEVARD TO BE DETOURED.
- TEMPORARY ACCESS TO INTERSECTIONS AND RESIDENTIAL DRIVEWAYS TO BE MAINTAINED AT ALL TIMES UNLESS DIRECTLY IMPACTED BY CONSTRUCTION
- ONE-WAY TRAFFIC TO BE MAINTAINED AT ALL TIMES ON GRAND BOULEVARD.
- DETOUR SIGNAGE SHALL BE CONSIDERED INCLUDED IN THE COST FOR TEMPORARY TRAFFIC CONTROL AND PROTECTION (SPECIAL) EXCEPT AS OTHERWISE NOTED.
- THE CONTRACTOR SHALL NOT OBSTRUCT ANY EXISTING SIGN WITH THE PLACEMENT OF DETOUR SIGNAGE.
- SEE DETAIL TC-21 FOR TYPICAL SIGN SPACING.
- A MINIMUM OF 14 DAYS IN ADVANCE OF THE START OF THE PROJECT, THE CONTRACTOR SHALL PLACE 1 ARTERIAL ROAD INFORMATION SIGN AT EACH END OF THE PROJECT AS DIRECTED AND AT A LOCATION DESIGNATED BY THE ENGINEER. THIS SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING. ADDITIONALLY, CHANGEABLE MESSAGE SIGNS SHALL BE PLACED AT EACH END OF ANY ROAD CLOSURES 7 DAYS IN ADVANCE OF WHEN THE CLOSURE WILL TAKE PLACE.
- ALL DETOUR SIGNAGE TO BE BAGGED OR COVERED WHEN NOT IN USE.

TYPE III BARRICADE

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CHECKED - -	REVISED - -
DATE - 11-7-24	REVISED - -

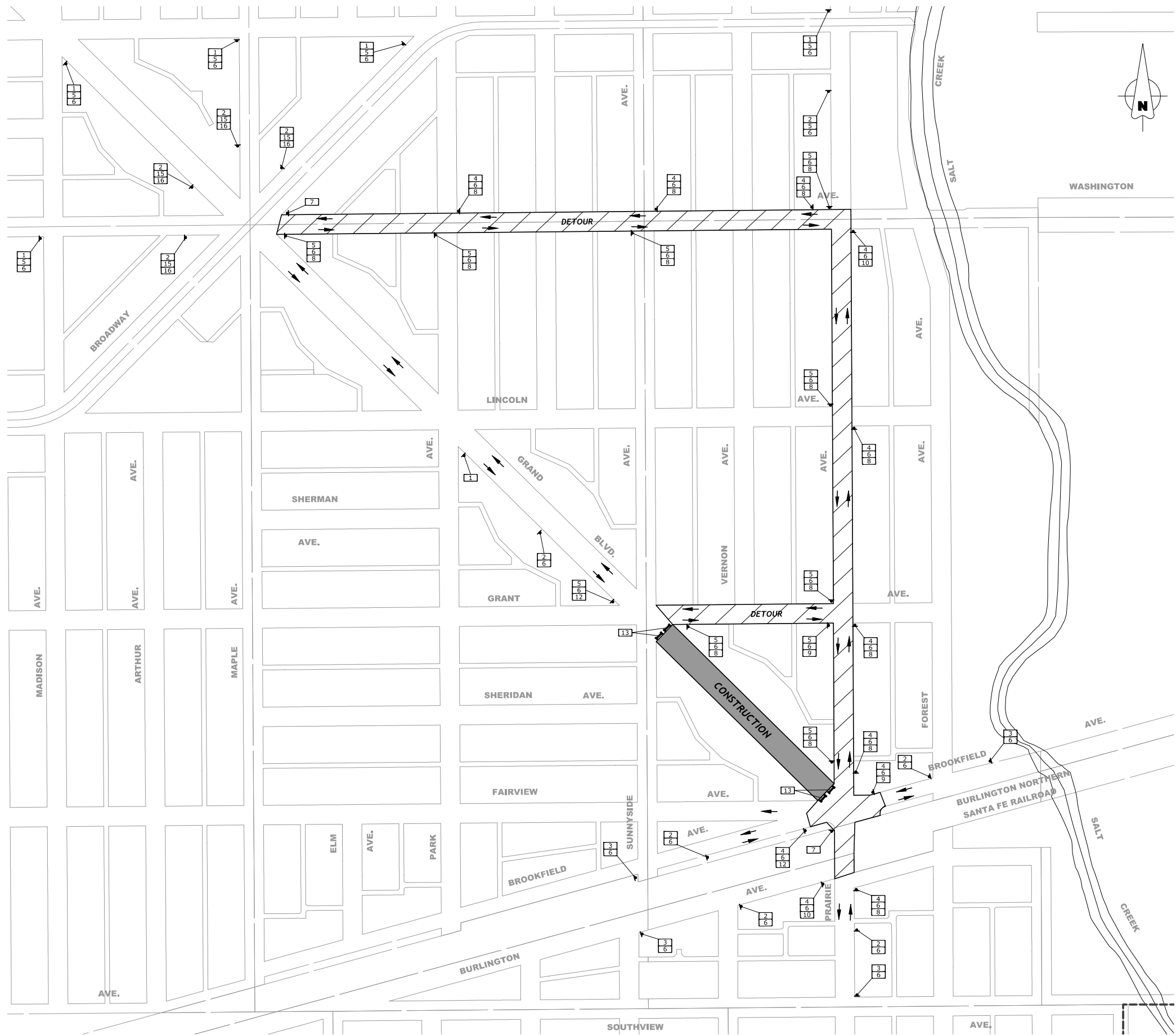
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETOUR PLAN
STAGE 1, 2, AND 3**

SCALE: NTS SHEET NO. 1 OF 3 SHEETS STA. TO STA.

F.A.U. RTE. 1694/1408	SECTION 21-00134-00-RS	COUNTY COOK	TOTAL SHEETS 68	SHEET NO. 38
CONTRACT NO. 61K86				FED. AID PROJECT
FED. ROAD DIST. NO. 1 ILLINOIS				
E.H.E. PROJECT NO. 1252100501				

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LEGEND OF SYMBOLS		
SYMBOL	DESCRIPTION	CODE & SIZE
1	ROAD CLOSED AHEAD	W20-3 48"x48"
2	DETOUR AHEAD	W20-2 48"x48"
3	ROAD CONSTRUCTION AHEAD	W20-I103 48"x48"
4	NORTH	M3-1(O) 24"x12"
5	SOUTH	M3-3(O) 24"x12"
6	Grand Boulevard	M4-8 36"x12"
7	END DETOUR	M4-8 24"x12"
8	DETOUR	M4-9 30"x24"
9	DETOUR	M4-9 30"x24"
10	DETOUR	M4-9 30"x24"
11	DETOUR	M4-9R 24"x30"
12	DETOUR	M4-9L 24"x30"
13	ROAD CLOSED	R11-4 60"x30"
14	ROAD CLOSED TO THRU TRAFFIC	R11-4 60"x30"
15	Washington Avenue	M4-8 36"x12"
16	EAST	M3-2(O) 24"x12"
17	WEST	M3-4(O) 24"x12"
18	Brookfield Avenue	M4-8 36"x12"

NOTES :

- ALL LOCAL DETOURS SHALL BE APPROVED BY THE ENGINEER AT LEAST 48 HOURS PRIOR TO INSTALLATION.
- GRAND BOULEVARD TO BE DETOURED.
- TEMPORARY ACCESS TO INTERSECTIONS AND RESIDENTIAL DRIVEWAYS TO BE MAINTAINED AT ALL TIMES UNLESS DIRECTLY IMPACTED BY CONSTRUCTION
- DETOUR SIGNAGE SHALL BE CONSIDERED INCLUDED IN THE COST FOR TEMPORARY TRAFFIC CONTROL AND PROTECTION (SPECIAL) EXCEPT AS OTHERWISE NOTED.
- THE CONTRACTOR SHALL NOT OBSTRUCT ANY EXISTING SIGN WITH THE PLACEMENT OF DETOUR SIGNAGE.
- SEE DETAIL TC-21 FOR TYPICAL SIGN SPACING.
- A MINIMUM OF 14 DAYS IN ADVANCE OF THE START OF THE PROJECT, THE CONTRACTOR SHALL PLACE 1 ARTERIAL ROAD INFORMATION SIGN AT EACH END OF THE PROJECT AS DIRECTED AND AT A LOCATION DESIGNATED BY THE ENGINEER. THIS SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING. ADDITIONALLY, CHANGEABLE MESSAGE SIGNS SHALL BE PLACED AT EACH END OF ANY ROAD CLOSURES 7 DAYS IN ADVANCE OF WHEN THE CLOSURE WILL TAKE PLACE.
- ALL DETOUR SIGNAGE TO BE BAGGED OR COVERED WHEN NOT IN USE.

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DATE - 11-7-24	REVISED - -

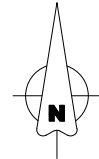
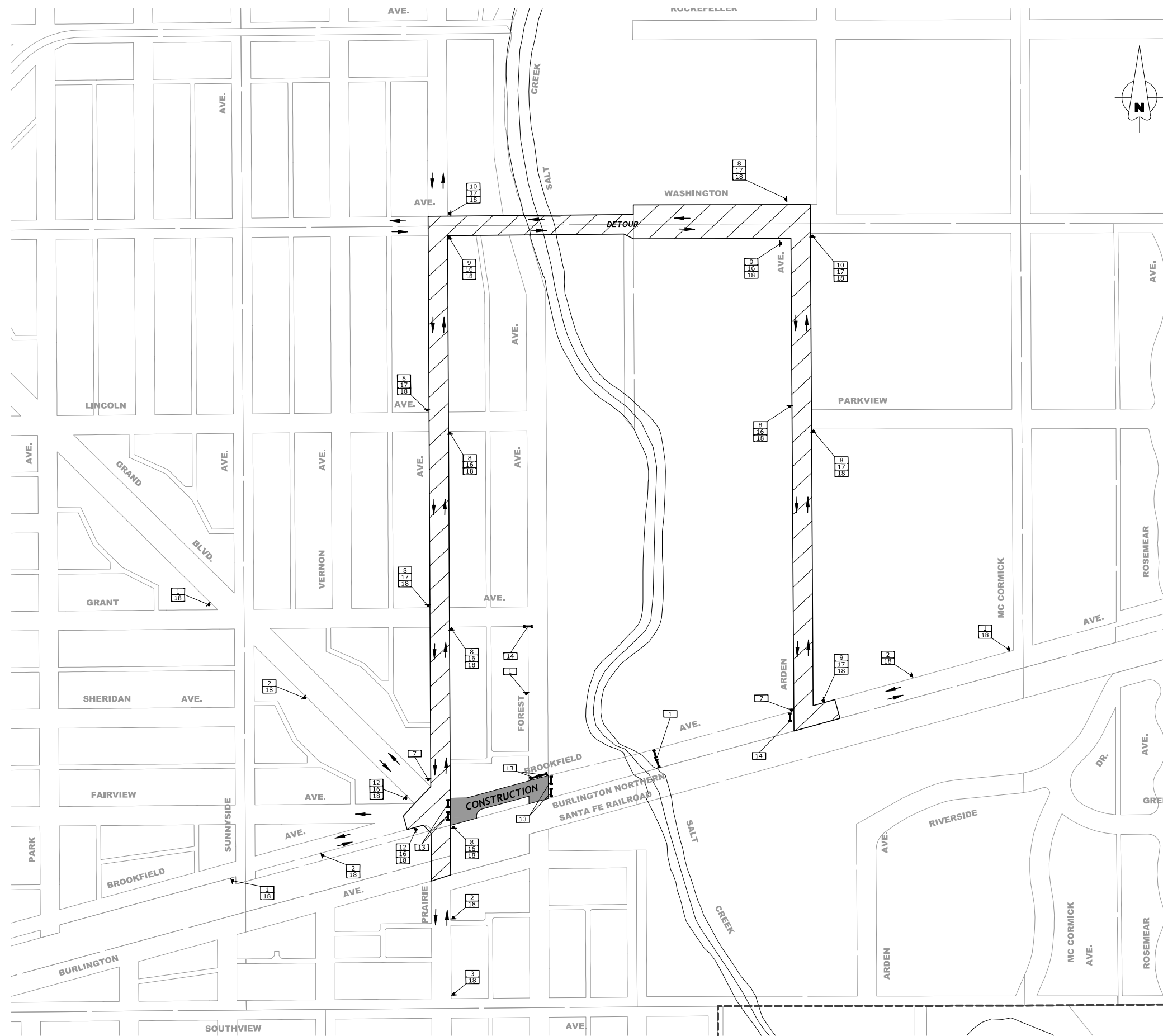
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETOUR PLAN
STAGE 4**

SCALE: NTS SHEET NO. 2 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1694/1408	21-00134-00-RS	COOK	68	39
FED. ROAD DIST. NO. 1 ILLINOIS		CONTRACT NO. 61K86		
FED. AID PROJECT		E.H.E. PROJECT NO. 1252100501		

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LEGEND OF SYMBOLS		
SYMBOL	DESCRIPTION	CODE & SIZE
1	ROAD CLOSED AHEAD	W20-3 48"x48"
2	DETOUR AHEAD	W20-2 48"x48"
3	ROAD CONSTRUCTION AHEAD	W20-I103 48"x48"
4	NORTH	M3-1(O) 24"x12"
5	SOUTH	M3-3(O) 24"x12"
6	Grand Boulevard	M4-8 36"x12"
7	END DETOUR	M4-8 24"x12"
8	DETOUR	M4-9 30"x24"
9	DETOUR	M4-9 30"x24"
10	DETOUR	M4-9 30"x24"
11	DETOUR	M4-9R 24"x30"
12	DETOUR	M4-9L 24"x30"
13	ROAD CLOSED	R11-4 60"x30"
14	ROAD CLOSED TO THRU TRAFFIC	R11-4 60"x30"
15	Washington Avenue	M4-8 36"x12"
16	EAST	M3-2(O) 24"x12"
17	WEST	M3-4(O) 24"x12"
18	Brookfield Avenue	M4-8 36"x12"

NOTES :

1. ALL LOCAL DETOURS SHALL BE APPROVED BY THE ENGINEER AT LEAST 48 HOURS PRIOR TO INSTALLATION.
2. BROOKFIELD AVENUE TO BE DETOURED.
3. TEMPORARY ACCESS TO INTERSECTIONS AND RESIDENTIAL DRIVEWAYS TO BE MAINTAINED AT ALL TIMES UNLESS DIRECTLY IMPACTED BY CONSTRUCTION
4. DETOUR SIGNAGE SHALL BE CONSIDERED INCLUDED IN THE COST FOR TEMPORARY TRAFFIC CONTROL AND PROTECTION (SPECIAL) EXCEPT AS OTHERWISE NOTED.
5. THE CONTRACTOR SHALL NOT OBSTRUCT ANY EXISTING SIGN WITH THE PLACEMENT OF DETOUR SIGNAGE.
6. SEE DETAIL TC-21 FOR TYPICAL SIGN SPACING.
7. A MINIMUM OF 14 DAYS IN ADVANCE OF THE START OF THE PROJECT, THE CONTRACTOR SHALL PLACE 1 ARTERIAL ROAD INFORMATION SIGN AT EACH END OF THE PROJECT AS DIRECTED AND AT A LOCATION DESIGNATED BY THE ENGINEER. THIS SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING. ADDITIONALLY, CHANGEABLE MESSAGE SIGNS SHALL BE PLACED AT EACH END OF ANY ROAD CLOSURES 7 DAYS IN ADVANCE OF WHEN THE CLOSURE WILL TAKE PLACE.
8. ALL DETOUR SIGNAGE TO BE BAGGED OR COVERED WHEN NOT IN USE.

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CHECKED - -	REVISD - -
DATE - 11-7-24	REVISD - -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETOUR PLAN
STAGE 5**

SCALE: NTS SHEET NO. 4 OF 4 SHEETS STA. TO STA.

F.A.U. RTE. 1694/1408	SECTION 21-00134-00-RS	COUNTY COOK	TOTAL SHEETS 68	SHEET NO. 40
FED. ROAD DIST. NO. 1 ILLINOIS		CONTRACT NO. 61K86 FED. AID PROJECT		

E.H.E. PROJECT NO. 1252100501

STORM WATER POLLUTION PREVENTION PLAN EROSION AND SEDIMENT CONTROLS

NARRATIVE DESCRIPTION OF EXISTING CONDITIONS AND PROPOSED DEVELOPMENT

THE PROJECT WILL COMPLY WITH THE APPLICABLE SOIL EROSION AND SEDIMENT CONTROL REQUIREMENTS OF ALL CITY ORDINANCES AND THE IEPA NPDES. THE EXISTING SITE IS PRIMARILY AN IMPERVIOUS R.O.W. SOILS ARE PRIMARILY SILTY CLAY AND ARE DESIGNATED AS TYPE 533 ON THE NRCS REPORT. THE SOILS AFTER DEVELOPMENT WILL REMAIN THE SAME. THE SITE IS NOT WITHIN THE FLOOD PROTECTION AREA OR FLOOD ZONE. ALL STORM WATER WILL BE DISCHARGED TO THE EXISTING CITY STORM SEWER ALONG WASHINGTON BOULEVARD.

DESCRIPTION OF STABILIZATION PRACTICES AT THE BEGINNING OF CONSTRUCTION (WHERE APPLICABLE):

A) AT LOCATIONS WHERE WATER DRAINS AWAY FROM THE PROJECT, INLET PROTECTION SHALL BE INSTALLED AROUND EXISTING INLETS OR CATCH BASINS.

DESCRIPTION OF STABILIZATION PRACTICES DURING CONSTRUCTION (WHERE APPLICABLE):

- 1) DURING CONSTRUCTION, AREAS OUTSIDE THE CONSTRUCTION AREA AS OUTLINED PREVIOUSLY SHALL BE PROTECTED FROM DAMAGE EFFECTS OF CONSTRUCTION. THE CONTRACTOR SHALL NOT USE THIS AREA FOR STAGING (EXCEPT AS DESIGNATED ON THE PLANS OR DIRECTED BY THE ENGINEER), PARKING VEHICLES OR CONSTRUCTION EQUIPMENT, STORAGE OF MATERIALS, OR OTHER CONSTRUCTION RELATED ACTIVITIES.
- A) WITHIN THE CONSTRUCTION ZONE, CRITICAL AREAS WHICH HAVE HIGH FLOWS OF WATER AS DETERMINED BY THE ENGINEER SHALL REMAIN UNDISTURBED UNTIL FULL SCALE CONSTRUCTION IS UNDERWAY TO PREVENT UNNECESSARY SOIL EROSION.
- B) TOP SOIL AND EARTH STOCKPILES SHALL BE TEMPORARILY SEEDED IF THEY ARE TO REMAIN UNUSED FOR MORE THAN FOURTEEN DAYS.
- C) AS THE CONTRACTOR CONSTRUCTS THE UNDERGROUND IMPROVEMENTS, THEY SHALL ADHERE TO THE FOLLOWING STEPS AS DIRECTED BY THE ENGINEER:
 1. PLACE TEMPORARY EROSION CONTROL SYSTEMS AT LOCATIONS WHERE WATER LEAVES AND ENTERS THE CONSTRUCTION ZONE.
- D) THE CONTRACTOR SHALL IMMEDIATELY FOLLOW MAJOR EARTH MOVING OPERATIONS WITH FINAL GRADING EQUIPMENT. AFTER MAJOR EARTH SPREAD OPERATION HAS MOVED TO A NEW LOCATION, FINAL GRADING SHALL BE COMPLETED WITHIN FOURTEEN DAYS. IF GRADING IS NOT COMPLETED WITHIN FOURTEEN DAYS, ALL MAJOR EARTH MOVING OPERATIONS WILL BE STOPPED, AS DIRECTED BY THE ENGINEER, UNTIL DISTRIBUTED AREAS ARE FINAL GRADED AND SEEDED.
- E) EXCAVATED AREAS AND EMBANKMENT SHALL BE PERMANENTLY SEEDED WHEN FINAL GRADED. IF NOT, THEY SHALL BE TEMPORARILY SEEDED AS STATED IN THE SPECIAL PROVISION "TEMPORARY EROSION CONTROL SEEDING".
- F) CONSTRUCTION EQUIPMENT SHALL BE STORED AND FUELED ONLY AT DESIGNATED LOCATIONS. ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR POLLUTION RUN-OFF IN COMPLIANCE WITH EPA WATER QUALITY REGULATIONS LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.
- G) THE RESIDENT ENGINEER SHALL INSPECT THE PROJECT DAILY DURING ACTIVITIES AND WEEKLY OR AFTER LARGE RAINS DURING THE WINTER SHUTDOWN PERIOD. THIS PROJECT SHALL ADDITIONALLY BE INSPECTED BY THE CONSTRUCTION FIELD ENGINEER ON A BIWEEKLY BASIS TO DETERMINE THAT EROSION CONTROL EFFORTS ARE IN PLACE AND EFFECTIVE AND IF OTHER CONTROL WORK IS NECESSARY.
- H) SEDIMENT COLLECTED DURING CONSTRUCTION BY THE VARIOUS TEMPORARY EROSION CONTROL SYSTEM SHALL BE DISPOSED OF ON SITE ON A REGULAR BASIS AS DIRECTED BY THE ENGINEER. THE COST OF MAINTENANCE IS INCIDENTAL TO THE CONTRACT.
- I) THE TEMPORARY EROSION CONTROL SYSTEM SHALL BE REMOVED AS DIRECTED BY THE ENGINEER AFTER IT'S USE IS NO LONGER NEEDED OR NO LONGER FUNCTIONING.

NOTES

1. SEE IDOT STANDARD 280001-07 FOR TEMPORARY EROSION CONTROL SYSTEMS.
2. THE CONTRACTOR SHALL ENSURE THAT ADJACENT PROPERTIES REMAIN PROTECTED FROM SEDIMENT DEPOSITION.
3. SOIL STOCKPILES SHALL BE PROTECTED WITH PERIMETER EROSION BARRIER OR OTHER EROSION PROTECTION SPECIFIED BY THE RESIDENT ENGINEER. THE COST SHALL BE INCLUDED IN THE UNIT PRICE FOR THE INDIVIDUAL SOIL MATERIALS.
4. WHEREVER CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY RUNOFF OR VEHICLE TRACKING ONTO THE PAVED SURFACE. THE PROVISIONS MAY INCLUDE SPRAYING VEHICLE WHEELS TO CLEAR SEDIMENT BEFORE EXITING THE CONSTRUCTION SITE OR OTHER MEASURES APPROVED BY THE ENGINEER. THE COST OF ABOVE WORK WILL BE INCLUDED IN COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL)
5. INLET FILTER SHALL BE INSTALLED PRIOR TO CONSTRUCTION AND SHALL BE REMOVED AFTER CONSTRUCTION IS COMPLETED. FILTERS WILL BE INSPECTED WEEKLY AND THE CONTRACTOR WILL BE NOTIFIED OF ANY CORRECTIVE MEASURES THAT WILL BE REQUIRED TO BE MADE BY THE CONTRACTOR.

DOCUMENTATION

- 1) A REPORT SUMMARIZING THE SCOPE OF INSPECTION, NAME(S) AND QUALIFICATIONS OF THE PERSONNEL MAKING THE INSPECTION, DATE(S) OF THE SECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLANTATION OF THE STORM WATER POLLUTION PREVENTION PLAN, AND ACTION TAKEN IN ACCORDANCE WITH SECTION 4.B, SHALL BE MADE AND RETAINED AS PART OF THE PLAN FOR AT LEAST THREE YEARS AFTER THE DATE OF INSPECTION. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART VI.G, OF THE GENERAL PERMIT.
- 2) IF ANY VIOLATION OF THE PROVISIONS OF THIS PLAN IS IDENTIFIED DURING THE CONDUCT OF THE CONSTRUCTION WORK COVERED BY THIS PLAN, THE RESIDENT ENGINEER OR RESIDENT TECHNICIAN SHALL COMPLETE AND FILE AN "INCIDENT OF NONCOMPLIANCE (ION)" REPORT FOR THE IDENTIFIED VIOLATION. THE RESIDENT ENGINEER OR RESIDENT TECHNICIAN SHALL USE FORMS PROVIDED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY AND SHALL INCLUDE SPECIFIC INFORMATION ON THE NONCOMPLIANCE, ACTIONS WHICH WERE TAKEN TO PREVENT ANY FURTHER CAUSES OF NONCOMPLIANCE. ALL REPORTS OF NONCOMPLIANCE SHALL BE SIGNED BY A RESPONSIBLE AUTHORITY IN ACCORDANCE WITH PART VI.G, OF THE GENERAL PERMIT. THE REPORT ID NONCOMPLIANCE SHALL BE MAILED TO THE FOLLOWING ADDRESS:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF WATER POLLUTION CONTROL
COMPLIANCE ASSURANCE SECTION #19
POST OFFICE BOX 19276
SPRINGFIELD, IL 62794-9276

DESCRIPTION OF INTENDED SEQUENCE OF MAJOR CONSTRUCTION ACTIVITIES WHICH WILL DISTURB EARTH AND LEAD TO POSSIBLE EROSION FOR MAJOR PORTIONS OF THE CONSTRUCTION SITE:

- 1) EXCAVATION AND REMOVAL OF EXISTING STRUCTURES AND PAVED SURFACES WILL BE COMPLETED AT LOCATIONS AS INDICATED ON THE PLANS OR DIRECTED BY THE ENGINEER.
- 2) DRAINAGE STRUCTURES WILL BE INSTALLED BEFORE AND/OR DURING THE EXCAVATION AND REMOVAL OF THE EXISTING STRUCTURES TO ALLOW FOR PROPER DRAINAGE OF THE SITE.
- 3) PLACEMENT, MAINTENANCE, REMOVAL AND PROPER CLEANUP OF TEMPORARY EROSION CONTROL, SUCH AS EROSION CONTROL FENCE, HAY OR STRAW BALE DITCH CHECKS, INLET PROTECTION, AND TEMPORARY SEEDING AND MULCHING.
- 4) FINAL GRADING AND PLACEMENT OF PERMANENT EROSION CONTROL SEEDING AND MULCHING.

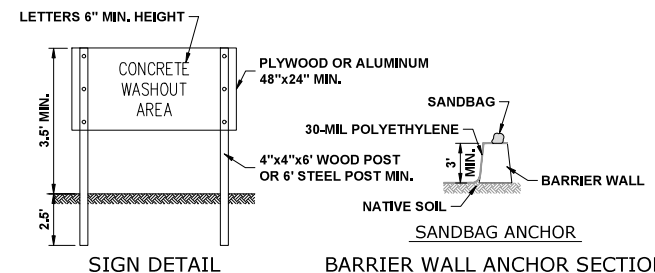
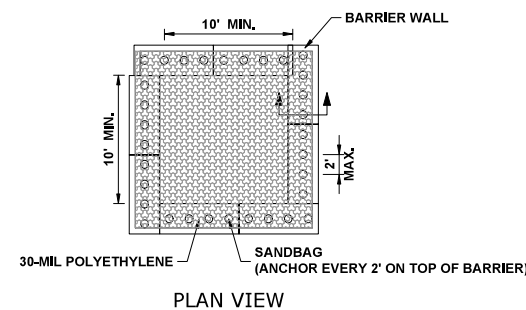
AREA OF DISTURBED GROUND

THE FOLLOWING PLAN WAS ESTABLISHED AND INCLUDED IN THESE PLANS TO DIRECT THE CONTRACTOR IN THE PLACEMENT OF TEMPORARY EROSION CONTROL SYSTEM AND TO PROVIDE A STORM WATER POLLUTION PREVENTION PLAN FOR COMPLIANCE UNDER NPDES. THE CONTRACTOR SHALL ABIDE TO ALL REQUIREMENTS WITHIN THIS PLAN AS PART OF THE CONTRACT.

ALL DISTURBED AREAS HAVING HIGH POTENTIAL FOR EROSION, AS DETERMINED BY THE ENGINEER, SHALL BE PERMANENTLY SEEDED AS SOON AS POSSIBLE.

MAINTENANCE AFTER CONSTRUCTION (WHERE APPLICABLE):

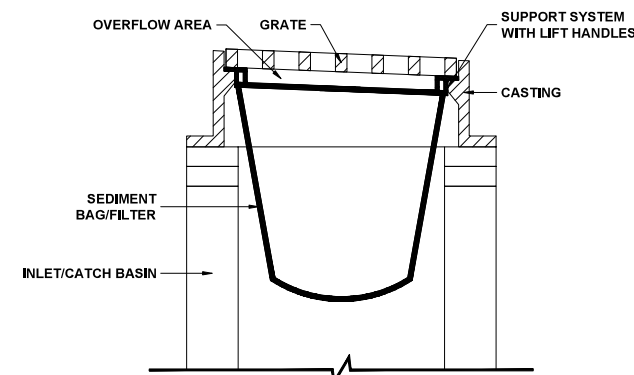
- 1) CONSTRUCTION IS COMPLETE AFTER ACCEPTANCE IS RECEIVED AT THE FINAL INSPECTION.
- 2) AREAS WILL BE INSPECTED ON A REGULAR BASIS BY THE ENGINEER AND THE VILLAGE.
- 3) MAINTENANCE CREWS WILL ALSO AID IN ANY DRAINAGE PROBLEMS.
- 4) ALL MAINTENANCE WILL BE CONDUCTED AT TIMES WHEN WEATHER CONDITIONS WILL NOT CAUSE SITE DAMAGE.
- 5) CONTRACTORS SHALL COMPLY WITH ALL TERMS AND CONDITIONS OF IEPA NPDES PERMIT ILR 10. RESTORATION SHALL OCCUR WITHIN 7 DAYS OF DISTURBANCE.
- 6) CONTRACTORS SHALL SUBMIT INSPECTION REPORTS TO THE VILLAGE AT LEAST ONCE PER SEVEN DAYS AND AFTER RAINFALL EVENTS OF HALF INCH (OR EQUIVALENT SNOW FALL).
- 7) THE CONTRACTOR IS RESPONSIBLE FOR HAVING THE SWPPP ON SITE AT ALL TIMES.
- 8) TECHNIQUES SHALL BE EMPLOYED BY THE CONTRACTOR TO PREVENT THE BLOWING OF DUST OR SEDIMENT FROM THE SITE.
- 9) DAILY REMOVAL OF SEDIMENT AND DEBRIS FROM THE STREET SHALL BE REQUIRED OF THE CONTRACTOR.



NOTES:

1. MAINTAINING TEMPORARY CONCRETE FACILITIES SHALL INCLUDE REMOVING AND DISPOSING OF HARDENED CONCRETE AND/OR SLURRY AND RETURNING THE FACILITIES TO A FUNCTIONAL CONDITION.
2. FACILITY SHALL BE CLEANED OR RECONSTRUCTED IN A NEW AREA ONCE WASHOUT BECOMES TWO-THIRDS FULL.

CONCRETE WASHOUT (BARRIER WALL)



INLET/CATCH BASIN PROTECTION DETAIL (DROP-IN PROTECTION)

1. CLEAN OUT AFTER EVERY RAIN EVENT.
2. INSTALL BEFORE BEGINNING ANY WORK.

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DATE	11-7-24	REVISED	--

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

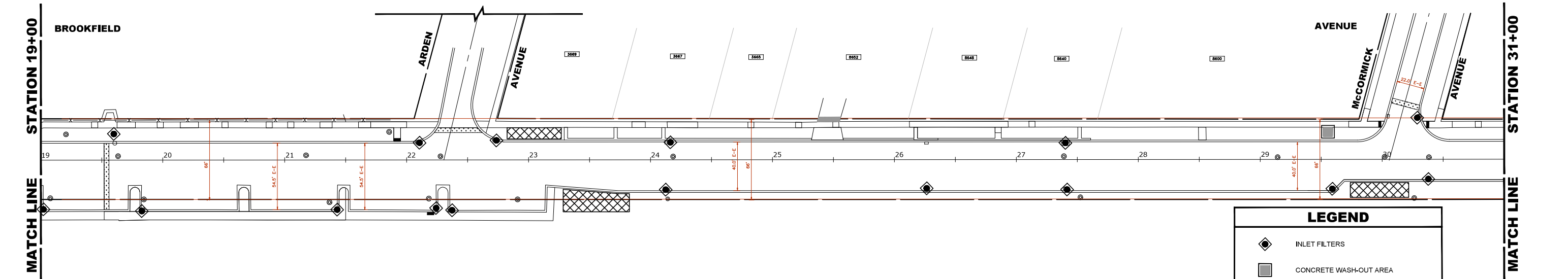
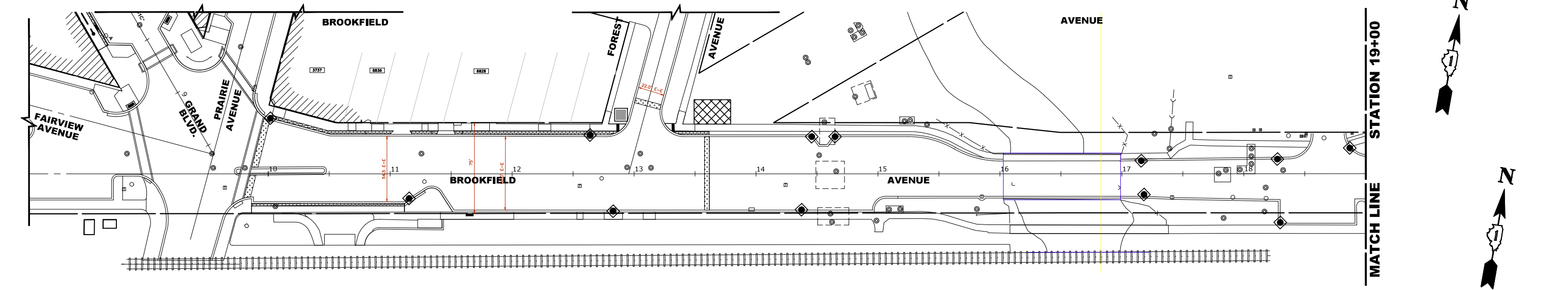
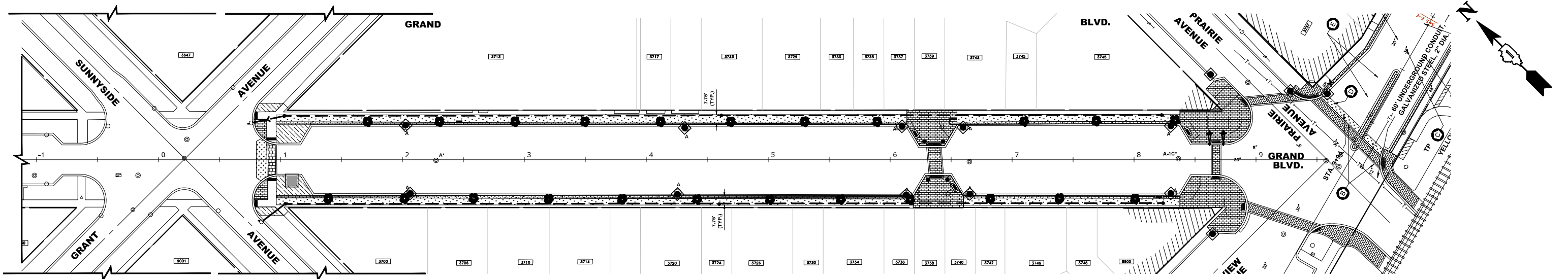
EROSION CONTROL PLAN AND SWPPP

SCALE: NONE SHEET NO. 1 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1694/1406	21-00134-00-RS	COOK	68	41
CONTRACT NO. 61K86			FED. AID PROJECT	

E.H.E. PROJECT NO. 1252100501

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LEGEND	
	INLET FILTERS
	CONCRETE WASH-OUT AREA
	SITE ENTRANCE/EXIT
	MATERIAL/EQUIPMENT STOCK PILING

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DATE	11-7-24	REVISED	---

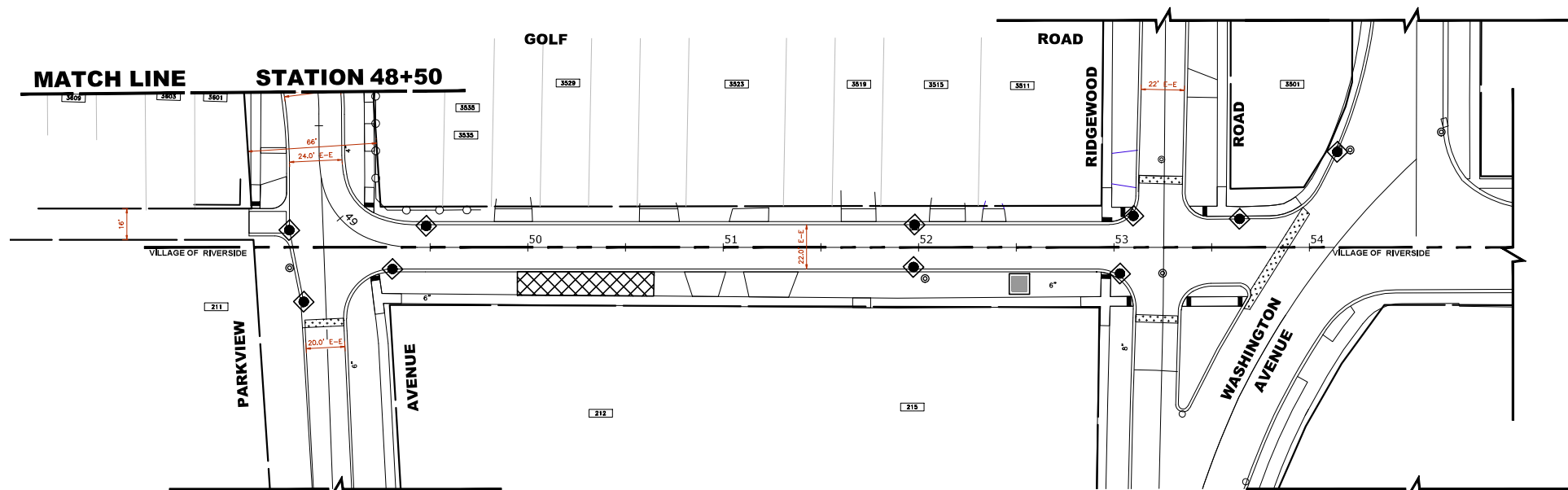
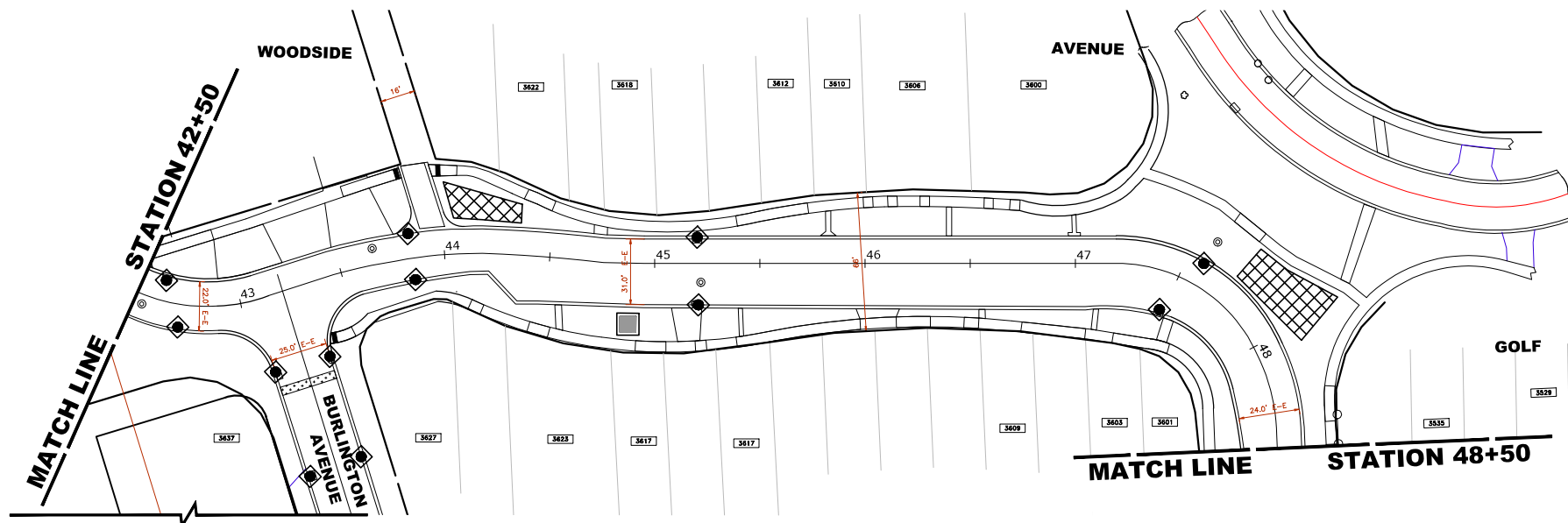
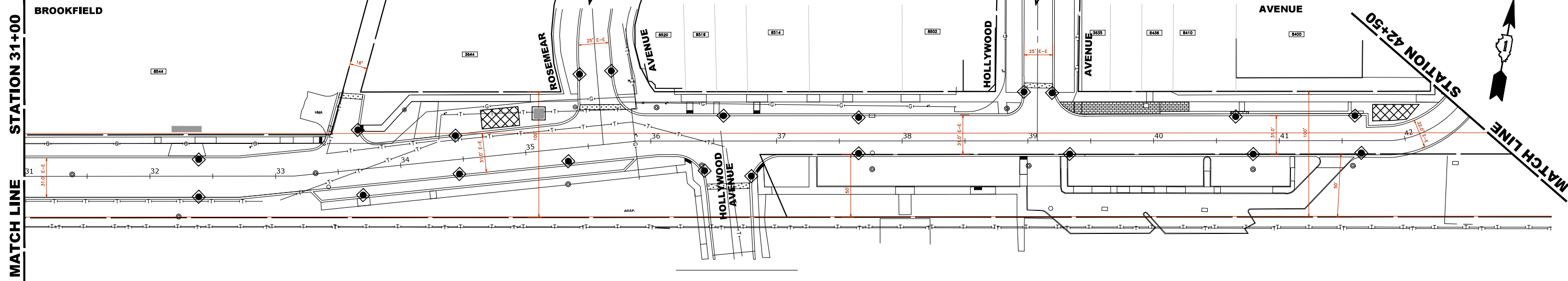
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL PLAN AND SWPPP

SCALE: 1" = 40' SHEET NO. 2 OF 3 SHEETS STA. 0+00 TO STA. 31+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1694/1406	21-00134-00-RS	COOK	68	42
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 61K86	
FED. AID PROJECT			E.H.E. PROJECT NO. 1252100501	

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LEGEND	
	INLET FILTERS
	CONCRETE WASH-OUT AREA
	SITE ENTRANCE/EXIT
	MATERIAL/EQUIPMENT STOCK PILING



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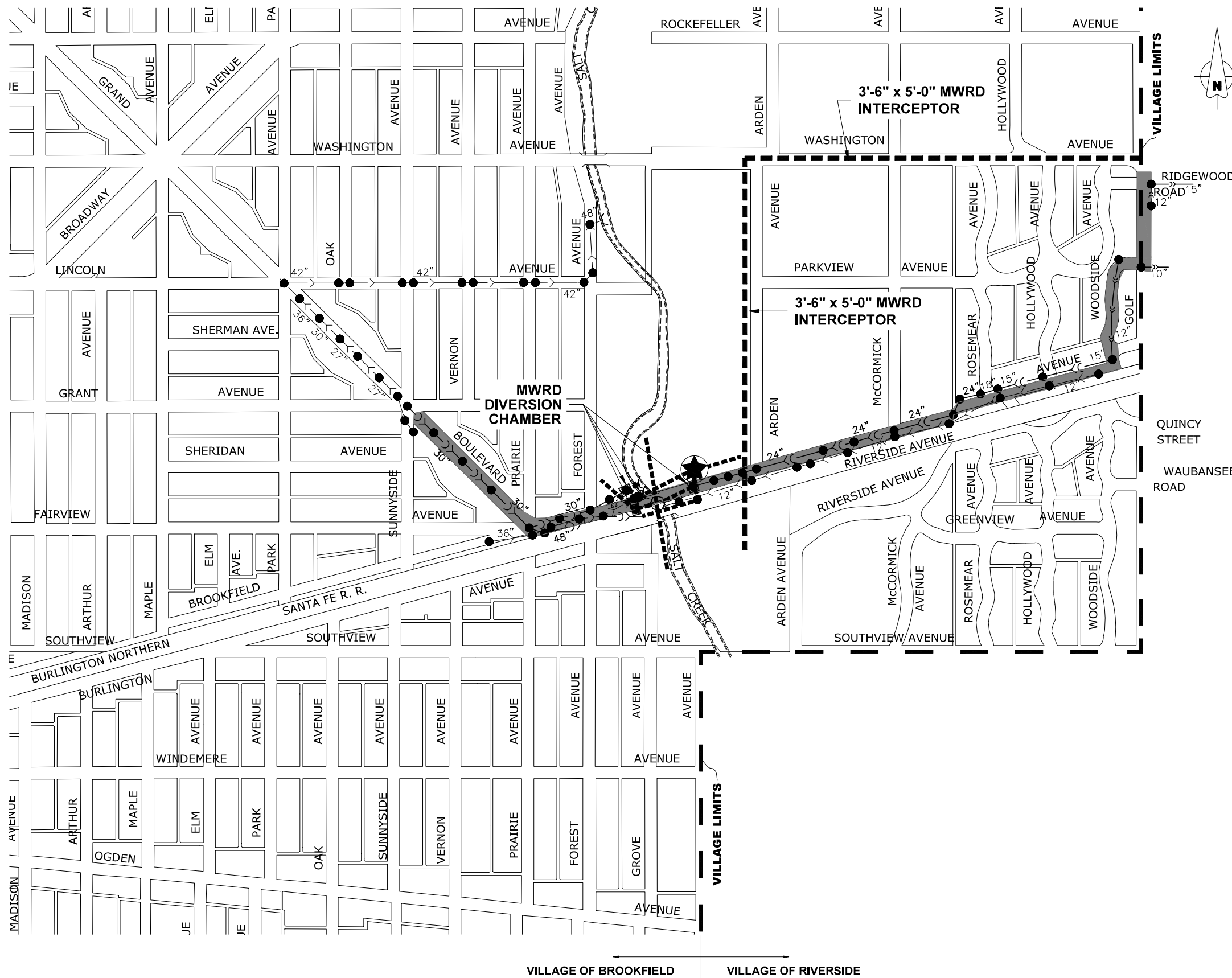
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN AND SWPPP
 SCALE: 1" = 40'
 SHEET NO. 3 OF 3 SHEETS
 STA. 31+00 TO STA. 54+00

F.A.U. RTE. 1694/1408	SECTION 21-00134-00-RS	COUNTY COOK	TOTAL SHEETS 68	SHEET NO. 43
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 61K86	
FED. AID PROJECT				

E.H.E. PROJECT NO. 1252100501



PROJECT LOCATED IN THE VILLAGES OF BROOKFIELD AND RIVERSIDE

- MWRD SEWER
- ★ CONNECTION TO MWRD INTERCEPTOR
- VILLAGE COMBINED SEWER
- VILLAGE STORM SEWER

NOTE:
 1. ALL SEWERS FROM PROJECT LOCATIONS TO SALT CREEK OR MWRD INTERCEPTOR ARE OWNED AND MAINTAINED BY THE VILLAGE OF BROOKFIELD.

PROJECT LOCATION
ROUTE OUTLET MAP

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE OUTLET MAP	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1694/1408	21-00134-00-RS	COOK	68	44
FED. ROAD DIST. NO. 1 ILLINOIS		CONTRACT NO. 61K86		
FED. AID PROJECT				

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JOB-SITE SIGNING CODES AND SIZES			JOB-SITE SIGNING CODES AND SIZES			JOB-SITE SIGNING CODES AND SIZES		
SYMBOL	SIGN	CODE & SIZE	SYMBOL	SIGN	CODE & SIZE	SYMBOL	SIGN	CODE & SIZE
S		R1-1 30"x30"	NPT3		R7-2a* 12"x18"	OCT DNS		W4-4bP 24"x12"
AW		R1-3P 18"x6"	NPT4		R7-203* 12"x18"	TFL DNS		W4-4aP 24"x12"
20		R2-1 24"x30"	2HRP		R7-108* 12"x18"	TFR DNS		W4-4aP 24"x12"
25		R2-1 24"x30"	4HRP		R7-108* 12"x18"	CT DNS		W4-4P 24"x12"
LTO		R3-5 30"x36"	15MP		R7-5* 12"x18"			W10-3R 30"x30"
KR		R4-7a 24"x30"	HIPO		R7-10* 12"x18"			W10-3L 30"x30"
HP		R7-8 12"x18"	PPO		R7-10* 12"x18"	PG		W15-1 30"x30"
FINE		R7-1101P 18"x9"	CP		R7-22* 12"x18"			W16-6P 21"x15"
NPAT		R7-1 12"x18"	RPPO		R7-22* 12"x18"			W16-6P 21"x15"
NPHTC		R7-1* 12"x18"	BPDR		R7-22* 12"x18"			W1-2R 30"x30"
NPFL		R7-1* 12"x18"	DNBI		R10-7 24"x30"			W1-2L 30"x30"
NPT1		R7-2a* 12"x18"	CC		S1-1 36"x36"	20 MPH		W13-1P 18"x18"
NPT2		R7-2a* 12"x18"						

*: SIGNS WITH SPECIFIC PARKING REGULATIONS THAT ARE NOT DIRECTLY REFERENCED IN THE MUTCD AND "STANDARD HIGHWAY SIGNS" PUBLICATION HAVE BEEN ASSIGNED A CODE DESIGNATION OF THE SIMILAR, STANDARD PARKING SIGN, WITH THE ACTUAL REGULATIONS SPECIFIED IN THE LEGEND. THE SIGNS SHALL BE CONSISTENT WITH THE SIGNS THAT CURRENTLY EXIST IN THE FIELD.
 **: NO CURRENT STANDARD EXISTS. SIGN PANEL SHALL RESEMBLE THE APPROXIMATE SIZE AND DISPLAY SHOWN.

SIGNING NOTES:

DESIGN: AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS, 2013.

CONSTRUCTION: CURRENTS STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS, AND APPLICABLE SPECIAL PROVISIONS.

LOADING: FOR 80 MPH WIND VELOCITY WITH 30% GUST FACTOR, NORMAL TO SIGN.

SOIL PRESSURE: MINIMUM ALLOWABLE SOIL PRESSURE = 1.25 TSF.

MATERIALS: POSTS SHALL CONFORM TO THE REQUIREMENTS OF ARTICLE 1006.29, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, STATE OF ILLINOIS.

HARDWARE FOR ATTACHING SIGN PANELS TO POSTS SHALL BE CADMIUM OR ZINC COATED STEEL, STAINLESS STEEL, OR ALUMINUM, AND SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS: CADMIUM OR ZINC COATED STEEL: BOLTS, NUTS, AND WASHERS: ASTM A165, TYPE NS. ZINC COATED IN ACCORDANCE WITH AASHTO M-232 OR ASTM A164, TYPE GS.

STAINLESS STEEL: BOLTS: ASTM A193, CLASS 1, GRADE B8, NUTS: ASTM A194, GRADE 8 OR 8F, WASHERS: ASTM A240, TYPE 302 OR 304.

ALUMINUM: BOLTS: ASTM B211 ALLOY 6061-T6 OR 2024-T4, NUTS: ASTM B211 ALLOY 6061-T6 OR 6262-T9, WASHERS: ASTM B209 ALCLAD 2024-T4.

PER 2009 MUTCD SECTION 2D.43, PARAGRAPH 03, STREET NAME SIGNS ARE TO BE MIXED CASE FONT.

NOTES:

- EXISTING SIGNS AND POSTS ARE TO BE REMOVED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. AS DESIGNATED BY ENGINEER, THE CONTRACTOR SHALL REINSTALL OR REPLACE SIGNS AFTER COMPLETION OF PROJECT. REMOVAL AND INSTALLATION OF SIGNS AND THEIR POSTS ARE TO BE DETERMINED BY THE ENGINEER. (COST IS TO BE INCLUDED IN THE "REMOVE AND RE-ERECT EXISTING SIGN " OR "SIGN PANEL - TYPE 1" AND "METAL POST - TYPE A OR B" PAY ITEM)
- ALL SIGNS AND POSTS TO BE SAFELY STORED BY THE CONTRACTOR FOR THE DURATION OF THE PROJECT.
- ALL POSTS TO BE TYPE A UNLESS OTHERWISE NOTED.
- CONTRACTOR TO VERIFY LOCATIONS OF ALL SIGNAGE.
- SIGNS SHALL FOLLOW THE ASSIGNED CODE DESIGNATION AND SIZE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND "STANDARD HIGHWAY SIGNS" PUBLICATION.
- ALL PROPOSED SIGNAGE AND PAVEMENT MARKING INSTALLATION LOCATIONS MUST COMPLY WITH ALL PROWAG REQUIREMENTS.

SYMBOL	DESCRIPTION
	METAL POST - TYPE A
	METAL POST - TYPE B
	EXISTING POST

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CHECKED --	REVISIONS --
DATE -- 11-7-24	REVISIONS --

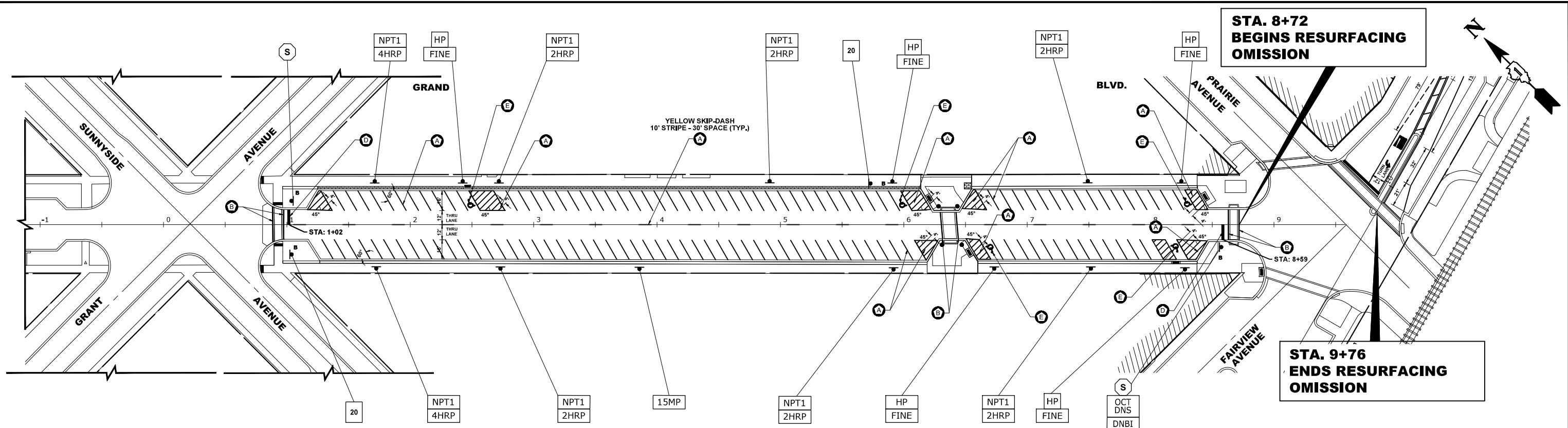
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING AND SIGNING PLAN

SCALE: 1" = 40' SHEET NO. 1 OF 4 SHEETS STA. 0+00 TO STA. 19+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1694/1408	21-00134-00-RS	COOK	68	45
CONTRACT NO. 61K86				FED. AID PROJECT

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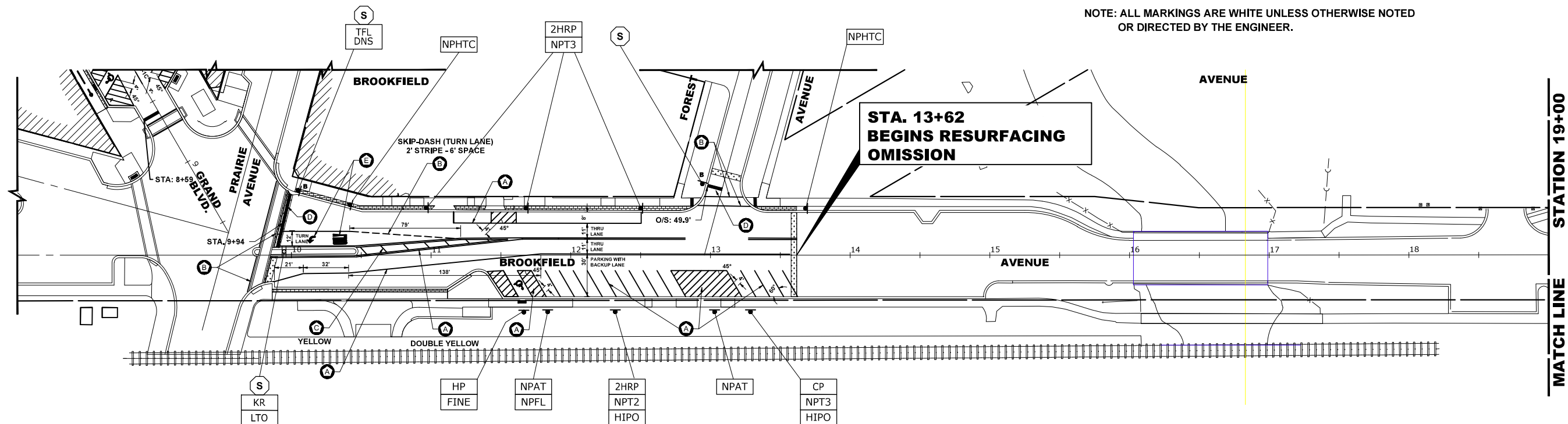
ITEM DESCRIPTION

- THERMOPLASTIC PAVEMENT MARKING - LINE 4"
- THERMOPLASTIC PAVEMENT MARKING - LINE 6"
- THERMOPLASTIC PAVEMENT MARKING - LINE 12"
- THERMOPLASTIC PAVEMENT MARKING - LINE 24"
- THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS

SYMBOL

- (A)
- (B)
- (C)
- (D)
- (E)

NOTE: ALL MARKINGS ARE WHITE UNLESS OTHERWISE NOTED OR DIRECTED BY THE ENGINEER.



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DRAWN	ECW, SB, GD, DMM, LW	REVISED	---
CHECKED	---	REVISED	---
DATE	11-7-24	REVISED	---

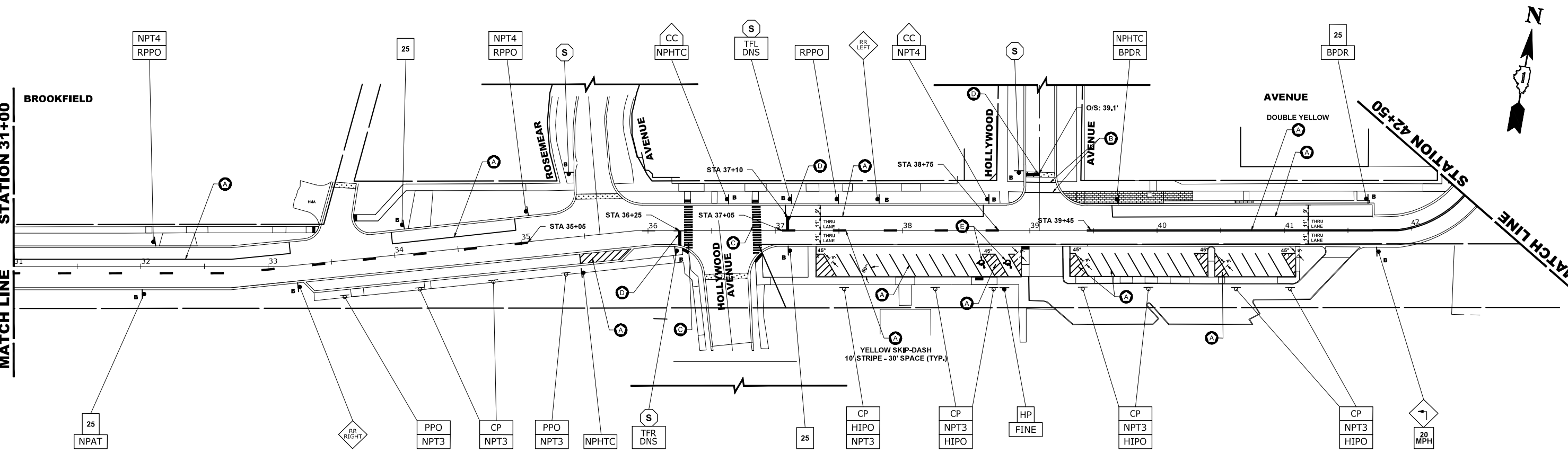
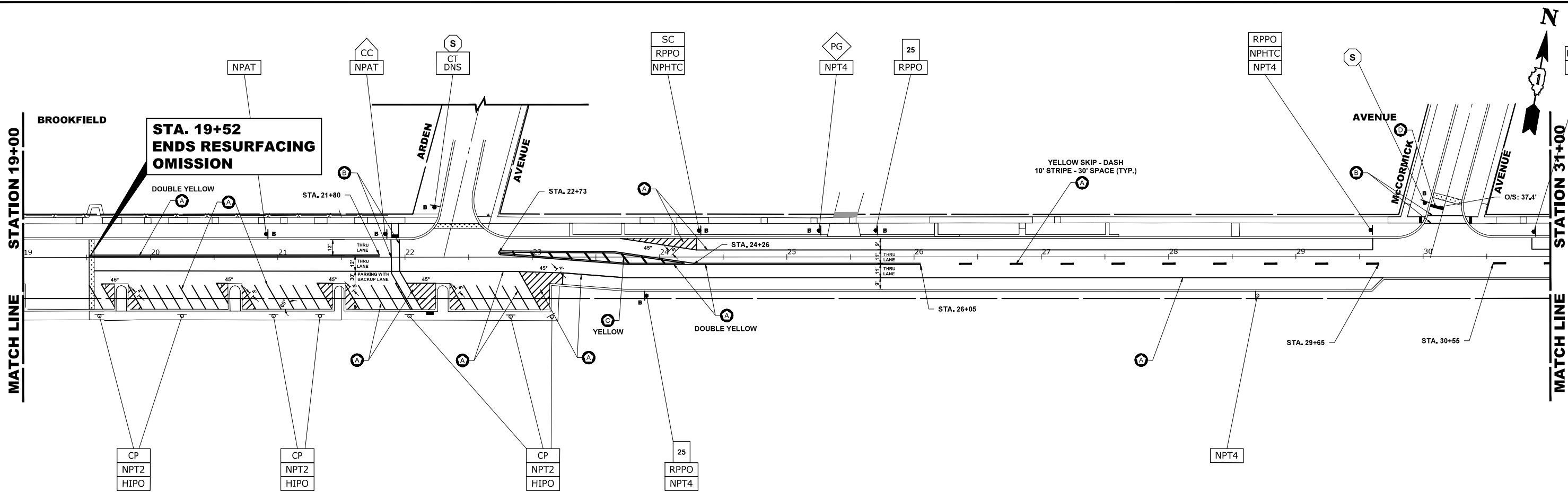
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING AND SIGNING PLAN

SCALE: 1" = 40' SHEET NO. 2 OF 4 SHEETS STA. 0+00 TO STA. 19+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1694/1408	21-00134-00-RS	COOK	68	46
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 61K86	
FED. AID PROJECT			E.H.E. PROJECT NO. 1252100501	

Drawing file: W:\Projects_by_Village\Brookfield\12521005 - Brookfield And 3700 Block of Grand LAFD\Site\Brookfield Ave 40 scale.dwg Nov. 06, 2024 - 8:14am



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CHECKED --	REVISD --
DATE -- 11-7-24	REVISD --

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

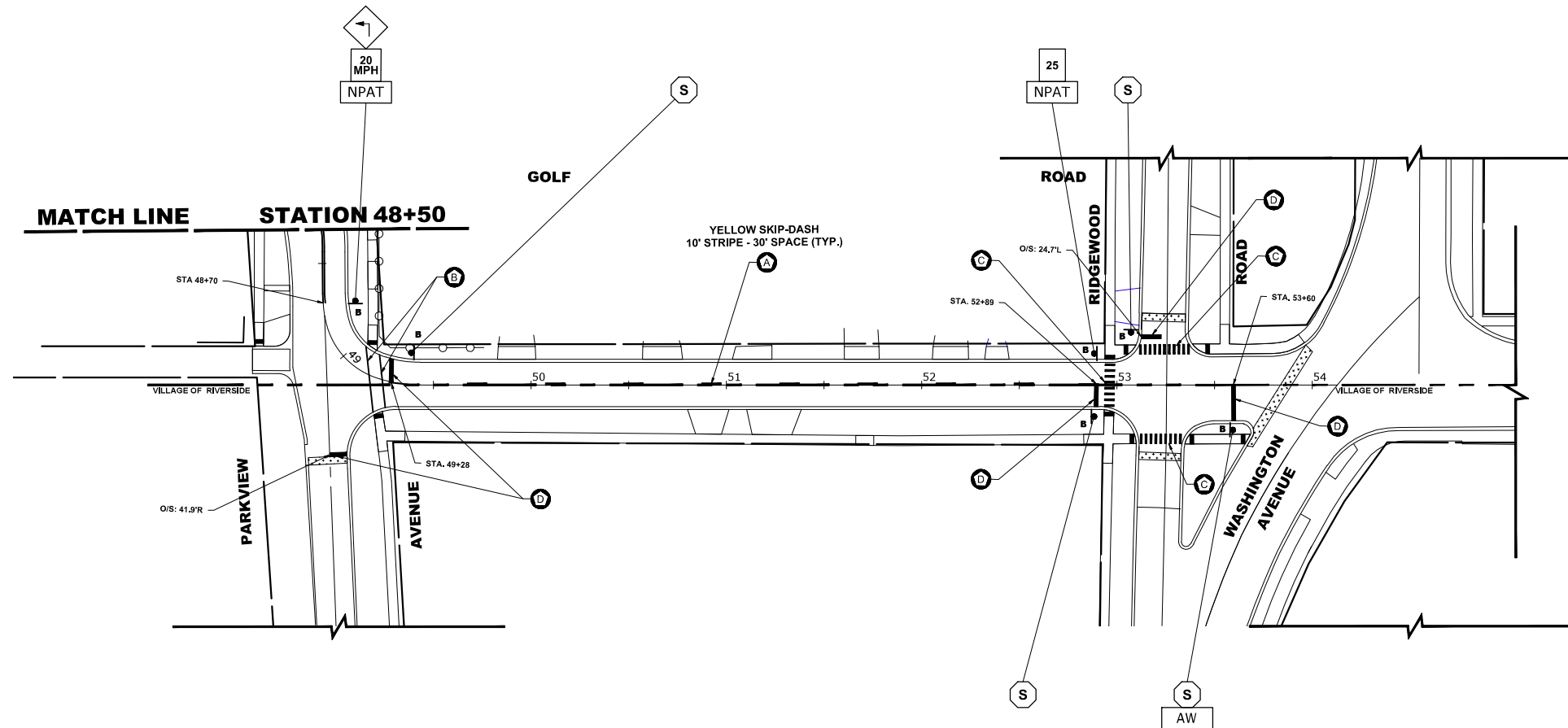
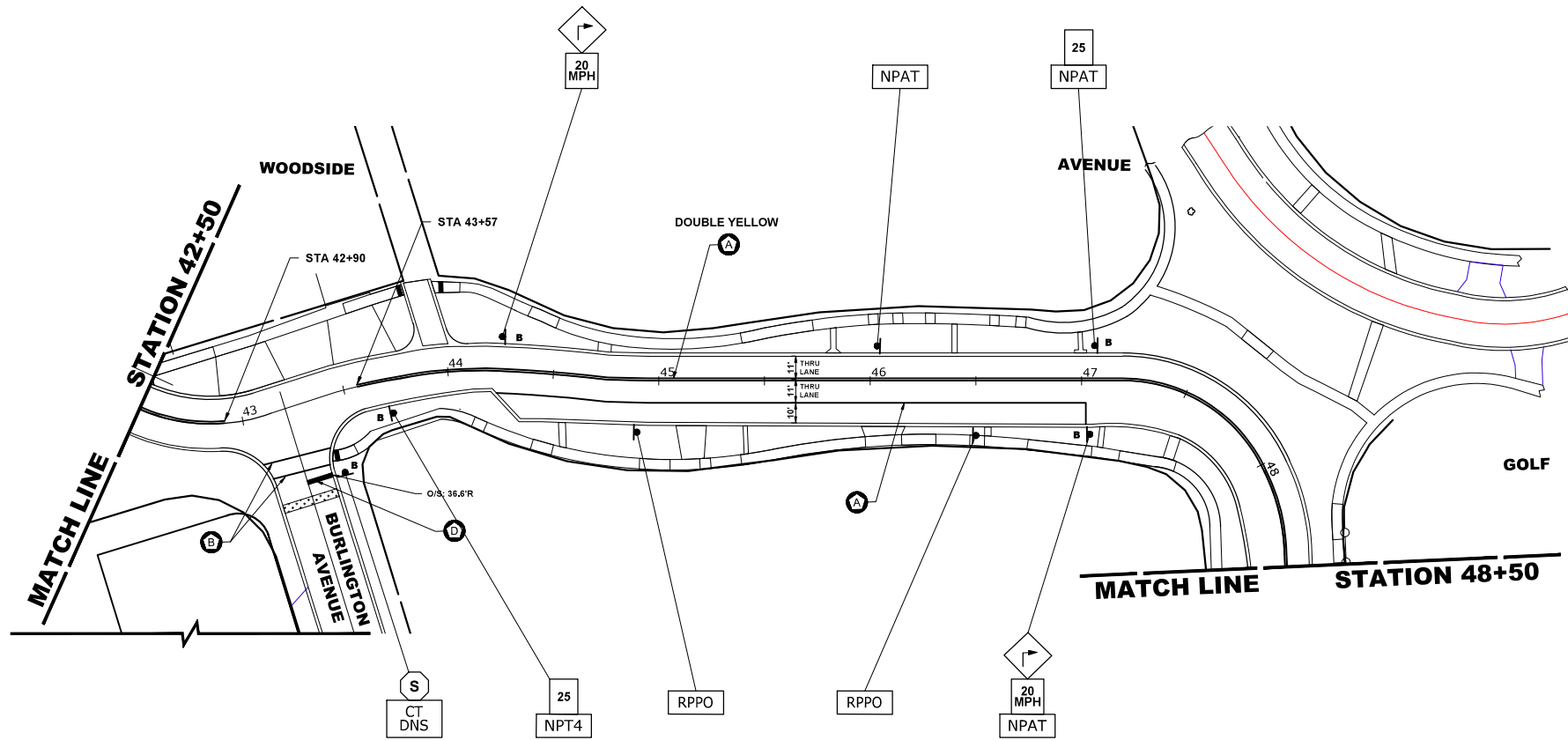
PAVEMENT MARKING AND SIGNING PLAN

SCALE: 1" = 40' SHEET NO. 3 OF 4 SHEETS STA. 19+00 TO STA. 42+50

F.A.U. RTE. 1694/1408	SECTION 21-00134-00-RS	COUNTY COOK	TOTAL SHEETS 68	SHEET NO. 47
FED. ROAD DIST. NO. 1 ILLINOIS		CONTRACT NO. 61K86		
FED. AID PROJECT				

E.H.E. PROJECT NO. 1252100501

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 DATE -- 11-7-24

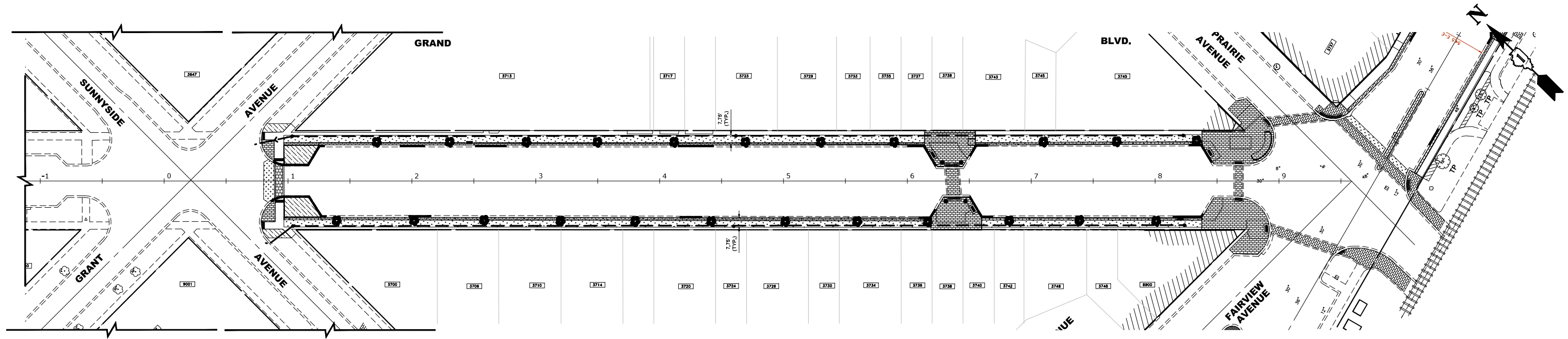
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN

SCALE: 1" = 40' SHEET NO. 4 OF 4 SHEETS STA. 42+50 TO STA. 54+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1694/1408	21-00134-00-RS	COOK	68	48
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 61K86	
FED. AID PROJECT			E.H.E. PROJECT NO. 1252100501	



LANDSCAPING NOTES

SODDING:

ALL DISTURBED AREAS INDICATED ON CROSS SECTION OR LANDSCAPING PLANS TO BE SODDED, INCLUDING FERTILIZER NUTRIENTS* AND SUPPLEMENTAL WATERING WHICH IS TO BE USED AFTER THE INITIAL WATERING (AS SPECIFIED AND AS DIRECTED BY THE ENGINEER) AT THE RATE OF 27 GALLONS PER SQUARE YARD SODDING. SODDED SLOPES WHICH ARE 2:1 OR STEEPER SHALL BE STAKED. (PROVIDE A 3" STRIP AROUND CATCH BASINS IN SEEDED AREAS).

4" TOP SOIL LAYER:

SOIL SHALL BE SPREAD AS INDICATED ON THE TYPICAL CROSS SECTIONS. A MINIMUM OF GRADING TO BE PERMITTED WITHIN AN APPROXIMATE RADIUS OF 6' FROM ALL TREES TO BE SAVED AS DETERMINED BY THE ENGINEER. NO PHOSPHOROUS FERTILIZER SHALL BE USED WITHIN 150' OF SALT CREEK.

MULCH:

MULCH TO BE PLACED AROUND ALL TREES LOCATED IN AREAS THAT ARE TO BE SODDED OR AS DIRECTED BY ENGINEER.

PROPOSED TREES:

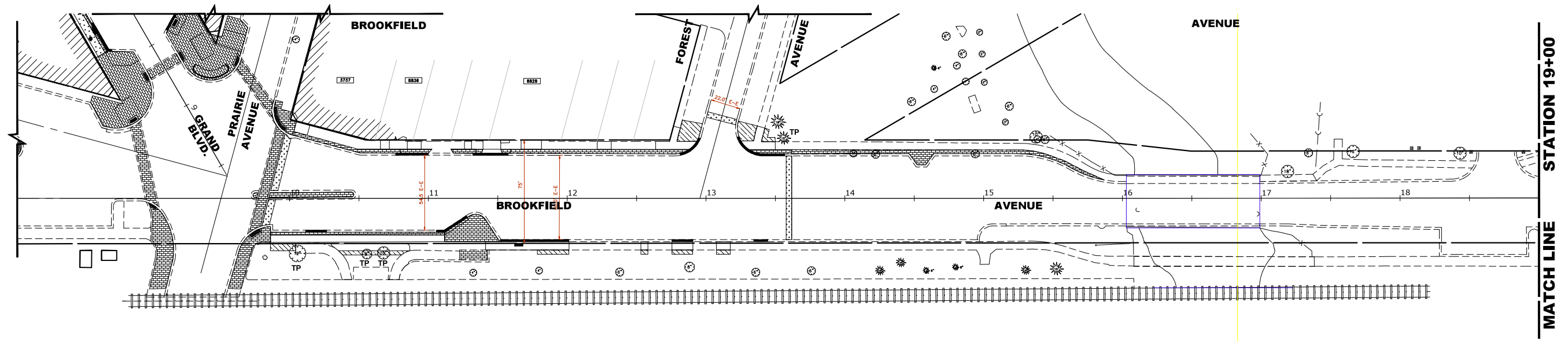
ALL PROPOSED TREES TO BE PLANTED BY THE VILLAGE OF BROOKFIELD OUTSIDE OF THE CONTRACT.

ALL PROPOSED TREES SHALL FOLLOW THE FOLLOWING MINIMUM DISTANCES:

- *THREE FEET (3') FROM NEAREST MAINLINE WALK
- *THREE FEET (3') FROM NEAREST CARRIAGE WALK
- *FOUR FEET (4') FROM NEAREST FACE OF CURB
- *TEN FEET (10') FROM FIRE HYDRANTS

LEGEND OF SYMBOLS

SYMBOL	DESCRIPTION
	PROPOSED SODDED PARKWAY
	PROPOSED BRICK AREA
	PROPOSED INCIDENTAL HOT-MIX ASPHALT AREA
	STRUCTURAL SOIL
TP	TREE TRUNK PROTECTION
RP	TREE ROOT PRUNING



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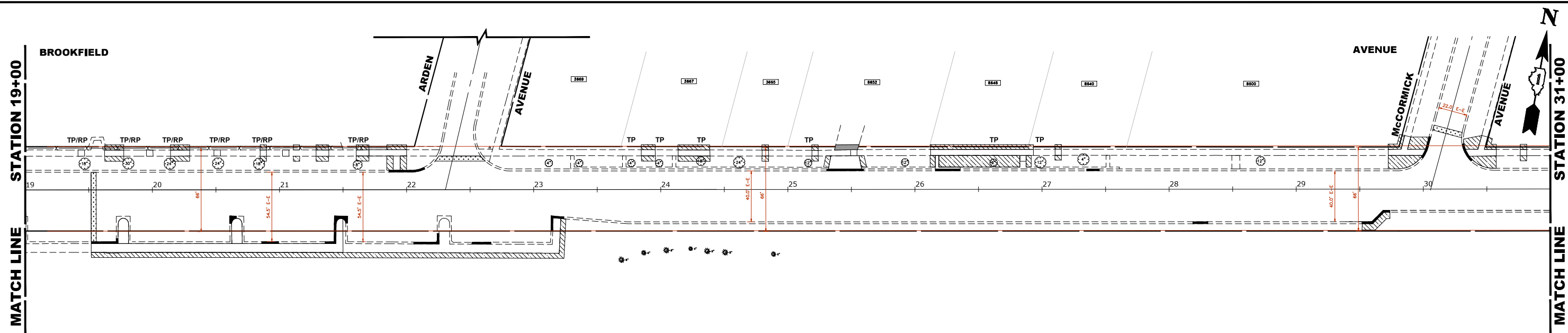
DESIGNED	--	REVISED	--
DRAWN	ECW, SB, GD, DMM, LW	REVISED	--
CHECKED	--	REVISED	--
DATE	11-7-24	REVISED	--

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

LANDSCAPING PLAN

SCALE: 1" = 40'
 SHEET NO. 1 OF 3 SHEETS
 STA. 0+00 TO STA. 19+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1694/1408	21-00134-00-RS	COOK	68	49
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 61K86	
FED. AID PROJECT			E.H.E. PROJECT NO. 1252100501	



LANDSCAPING NOTES

SODDING:

ALL DISTURBED AREAS INDICATED ON CROSS SECTION OR LANDSCAPING PLANS TO BE SODDED, INCLUDING FERTILIZER NUTRIENTS* AND SUPPLEMENTAL WATERING WHICH IS TO BE USED AFTER THE INITIAL WATERING (AS SPECIFIED AND AS DIRECTED BY THE ENGINEER) AT THE RATE OF 27 GALLONS PER SQUARE YARD SODDING, SODDED SLOPES WHICH ARE 2:1 OR STEEPER SHALL BE STAKED, (PROVIDE A 3" STRIP AROUND CATCH BASINS IN SEEDD AREAS).

4" TOP SOIL LAYER:

SOIL SHALL BE SPREAD AS INDICATED ON THE TYPICAL CROSS SECTIONS.
 A MINIMUM OF GRADING TO BE PERMITTED WITHIN AN APPROXIMATE RADIUS OF 6' FROM ALL TREES TO BE SAVED AS DETERMINED BY THE ENGINEER.
 NO PHOSPHOROUS FERTILIZER SHALL BE USED WITHIN 150' OF SALT CREEK.

MULCH:

MULCH TO BE PLACED AROUND ALL TREES LOCATED IN AREAS THAT ARE TO BE SODDED OR AS DIRECTED BY ENGINEER.

PROPOSED TREES:

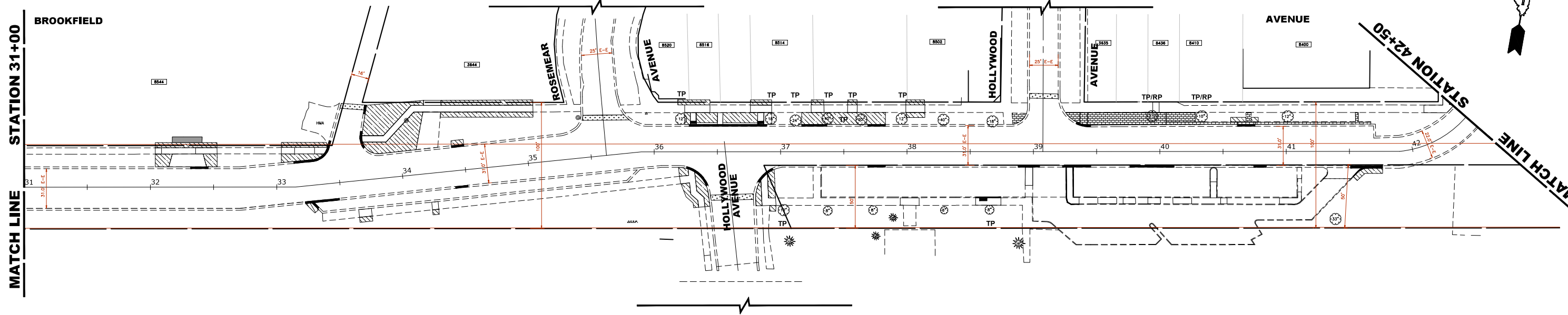
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- *THREE FEET (3') FROM NEAREST MAINLINE WALK
- *THREE FEET (3') FROM NEAREST CARRIAGE WALK
- *FOUR FEET (4') FROM NEAREST FACE OF CURB
- *TEN FEET (10') FROM FIRE HYDRANTS

LEGEND OF SYMBOLS

SYMBOL	DESCRIPTION
	PROPOSED SODDED PARKWAY
	PROPOSED BRICK AREA
	PROPOSED INCIDENTAL HOT-MIX ASPHALT AREA
	STRUCTURAL SOIL
TP	TREE TRUNK PROTECTION
RP	TREE ROOT PRUNING



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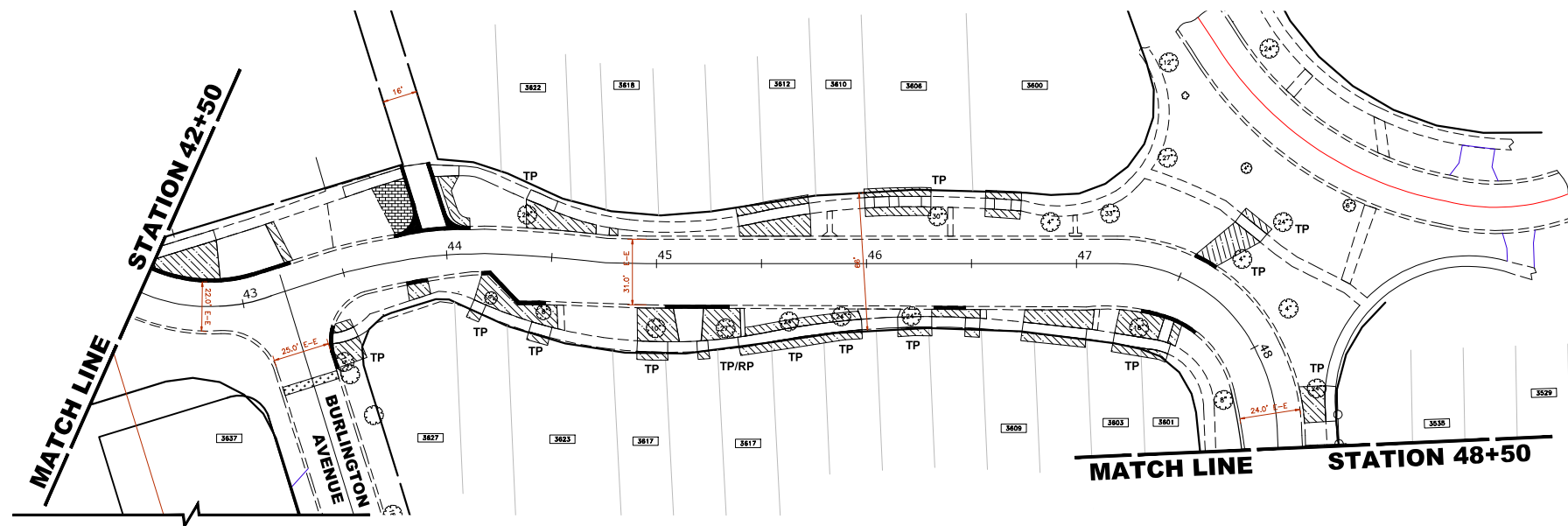
DESIGNED	--	REVISED	--
DRAWN	ECW, SB, GD, DMM, LW	REVISED	--
CHECKED	--	REVISED	--
DATE	11-7-24	REVISED	--

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

LANDSCAPING PLAN
 SCALE: 1" = 40'
 SHEET NO. 2 OF 3 SHEETS
 STA. 19+00 TO STA. 42+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1694/1408	21-00134-00-RS	COOK	68	50
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 61K86	
			FED. AID PROJECT	
E.H.E. PROJECT NO. 1252100501				

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LANDSCAPING NOTES

SODDING:

ALL DISTURBED AREAS INDICATED ON CROSS SECTION OR LANDSCAPING PLANS TO BE SODDED, INCLUDING FERTILIZER NUTRIENTS* AND SUPPLEMENTAL WATERING WHICH IS TO BE USED AFTER THE INITIAL WATERING (AS SPECIFIED AND AS DIRECTED BY THE ENGINEER) AT THE RATE OF 27 GALLONS PER SQUARE YARD SODDING. SODDED SLOPES WHICH ARE 2:1 OR STEEPER SHALL BE STAKED. (PROVIDE A 3" STRIP AROUND CATCH BASINS IN SEEDING AREAS).

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 A MINIMUM OF GRADING TO BE PERMITTED WITHIN AN APPROXIMATE RADIUS OF 6' FROM ALL TREES TO BE SAVED AS DETERMINED BY THE ENGINEER.
 NO PHOSPHOROUS FERTILIZER SHALL BE USED WITHIN 150' OF SALT CREEK.

MULCH:

MULCH TO BE PLACED AROUND ALL TREES LOCATED IN AREAS THAT ARE TO BE SODDED OR AS DIRECTED BY ENGINEER.

PROPOSED TREES:

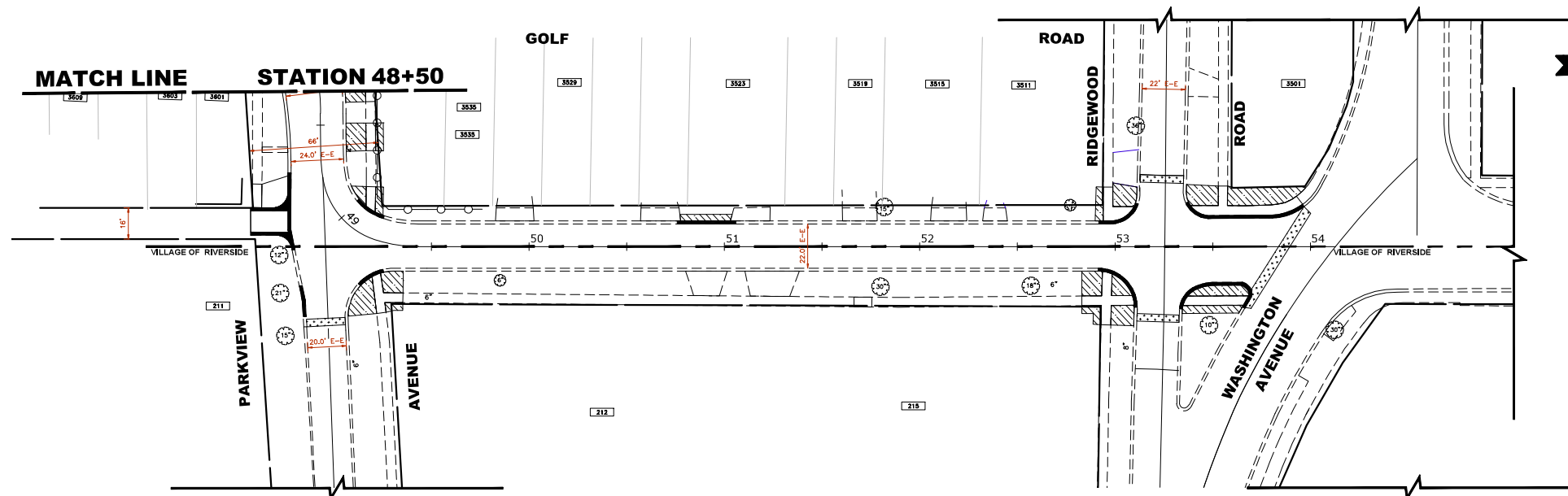
ALL PROPOSED TREES TO BE PLANTED BY THE VILLAGE OF BROOKFIELD OUTSIDE OF THIS CONTRACT.

ALL PROPOSED TREES SHALL FOLLOW THE FOLLOWING MINIMUM DISTANCES:

- *THREE FEET (3') FROM NEAREST MAINLINE WALK
- *THREE FEET (3') FROM NEAREST CARRIAGE WALK
- *FOUR FEET (4') FROM NEAREST FACE OF CURB
- *TEN FEET (10') FROM FIRE HYDRANTS

LEGEND OF SYMBOLS

SYMBOL	DESCRIPTION
	PROPOSED SODDED PARKWAY
	PROPOSED BRICK AREA
	PROPOSED INCIDENTAL HOT-MIX ASPHALT AREA
	STRUCTURAL SOIL
TP	TREE TRUNK PROTECTION
RP	TREE ROOT PRUNING

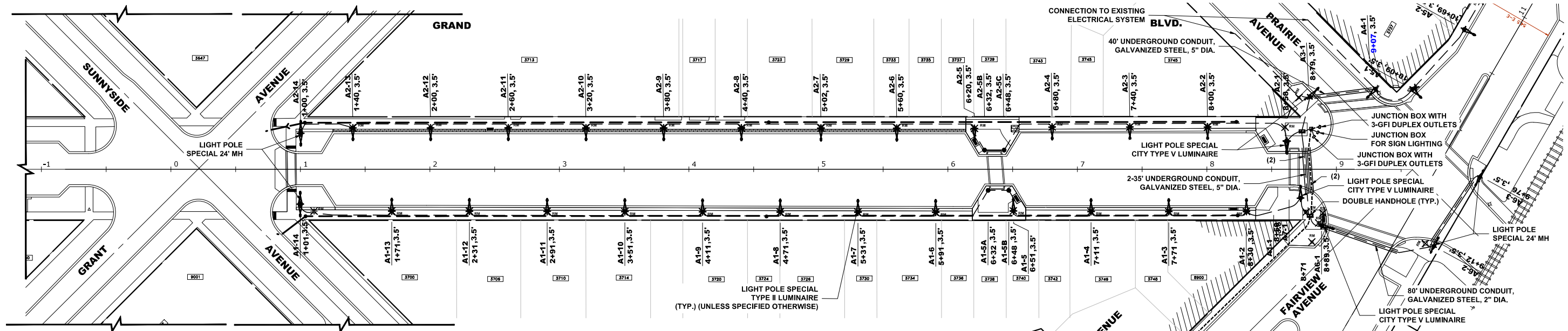


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DRAWN	ECW, SB, GD, DMM, LW	REVISED	--
CHECKED	--	REVISED	--
DATE	11-7-24	REVISED	--

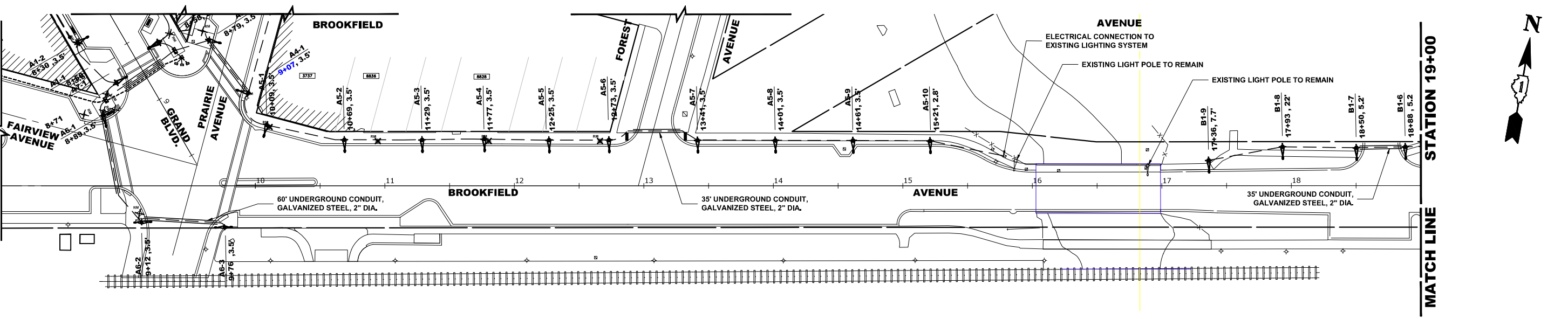
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1694/1408	21-00134-00-RS	COOK	68	51
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 61K86	
FED. AID PROJECT			E.H.E. PROJECT NO. 1252100501	

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LEGEND OF SYMBOLS			
	EXISTING LIGHT POLE AND FIXTURE		PROPOSED CONTROL CENTER
	EXISTING LIGHT POLE AND FIXTURE TO BE REMOVED		PROPOSED UNIT DUCT WITH 3-1/2" NO. 6 & 1-1/2" NO. 8 GROUND, 600V (XLP-TYPE USE), 1.5" DIAMETER OR AS NOTED
	PROPOSED 12' MOUNTING HEIGHT POLE WITH 2' MAST ARM AND LED LUMINAIRE		EXISTING UNIT DUCT
	PROPOSED 24' MOUNTING HEIGHT POLE WITH 6' MAST ARM AND LED LUMINAIRE AND 12' MOUNTING HEIGHT POLE WITH 2' MAST ARM AND LED LUMINAIRE		PROPOSED UNIT DUCT WITH 6-1/2" NO. 6, 1-1/2" NO. 8 GROUND, 600V (XLP-TYPE USE), 1.5" DIAMETER
	PROPOSED HANDHOLE		PROPOSED RIGID GALVANIZED STEEL CONDUIT
	PROPOSED DOUBLE HANDHOLE		CONTROLLER IDENTIFICATION (TYP.)
	PROPOSED BOLLARD		CIRCUIT NUMBER (TYP.)
			POLE NUMBER (TYP.)
			SET BACK FROM F/C (TYP.)



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 DATE - 11-7-24

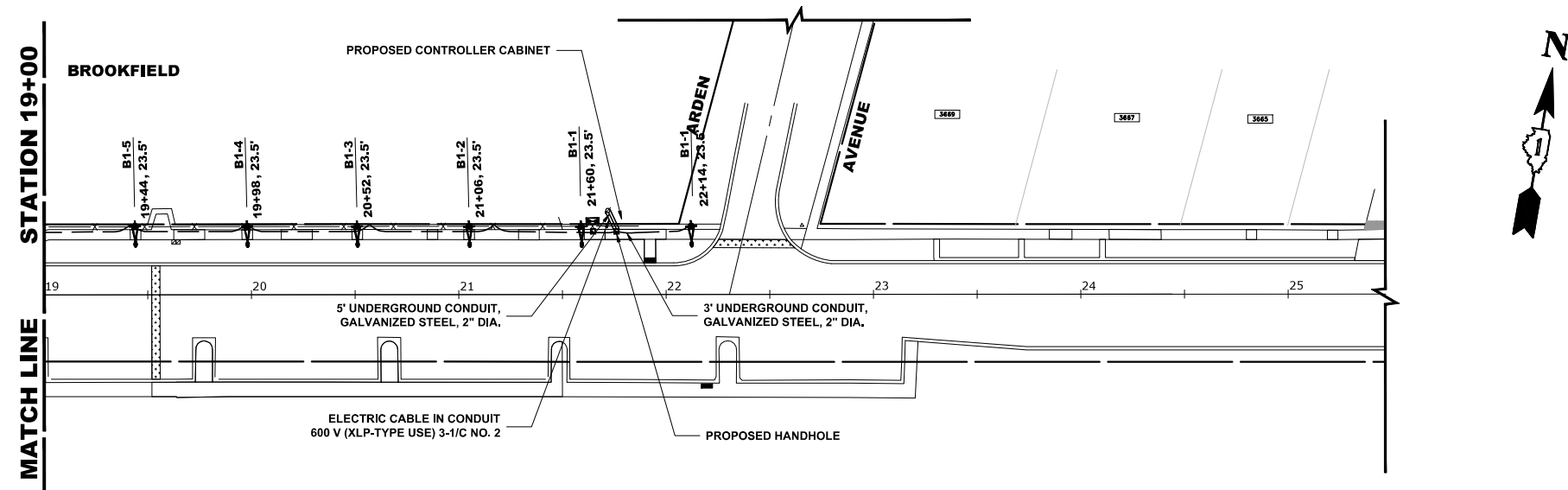
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

STREET LIGHTING PLAN

SCALE: 1" = 40'
 SHEET NO. 1 OF 3 SHEETS
 STA. 0+00 TO STA. 19+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1694/1408	21-00134-00-RS	COOK	68	52
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 61K86	
FED. AID PROJECT			E.H.E. PROJECT NO. 1252100501	



LEGEND OF SYMBOLS

	EXISTING LIGHT POLE AND FIXTURE		PROPOSED CONTROL CENTER
	EXISTING LIGHT POLE AND FIXTURE TO BE REMOVED		PROPOSED UNIT DUCT WITH 3-1/2 No. 6 & 1-1/2 No. 8 GROUND, 600V (XLP-(TYPE USE)), 1.5" DIAMETER OR AS NOTED
	PROPOSED 12' MOUNTING HEIGHT POLE WITH 2' MAST ARM AND LED LUMINAIRE		EXISTING UNIT DUCT
	PROPOSED 24' MOUNTING HEIGHT POLE WITH 6' MAST ARM AND LED LUMINAIRE AND 12' MOUNTING HEIGHT POLE WITH 2' MAST ARM AND LED LUMINAIRE		PROPOSED UNIT DUCT WITH 6-1/2 No. 6, 1-1/2 No. 8 GROUND, 600V (XLP-(TYPE USE)), 1.5" DIAMETER
	PROPOSED HANDHOLE		PROPOSED RIGID GALVANIZED STEEL CONDUIT
	PROPOSED DOUBLE HANDHOLE		CONTROLLER IDENTIFICATION (TYP.)
	PROPOSED BOLLARD		CIRCUIT NUMBER (TYP.)
			POLE NUMBER (TYP.)
			SET BACK FROM F/C (TYP.)

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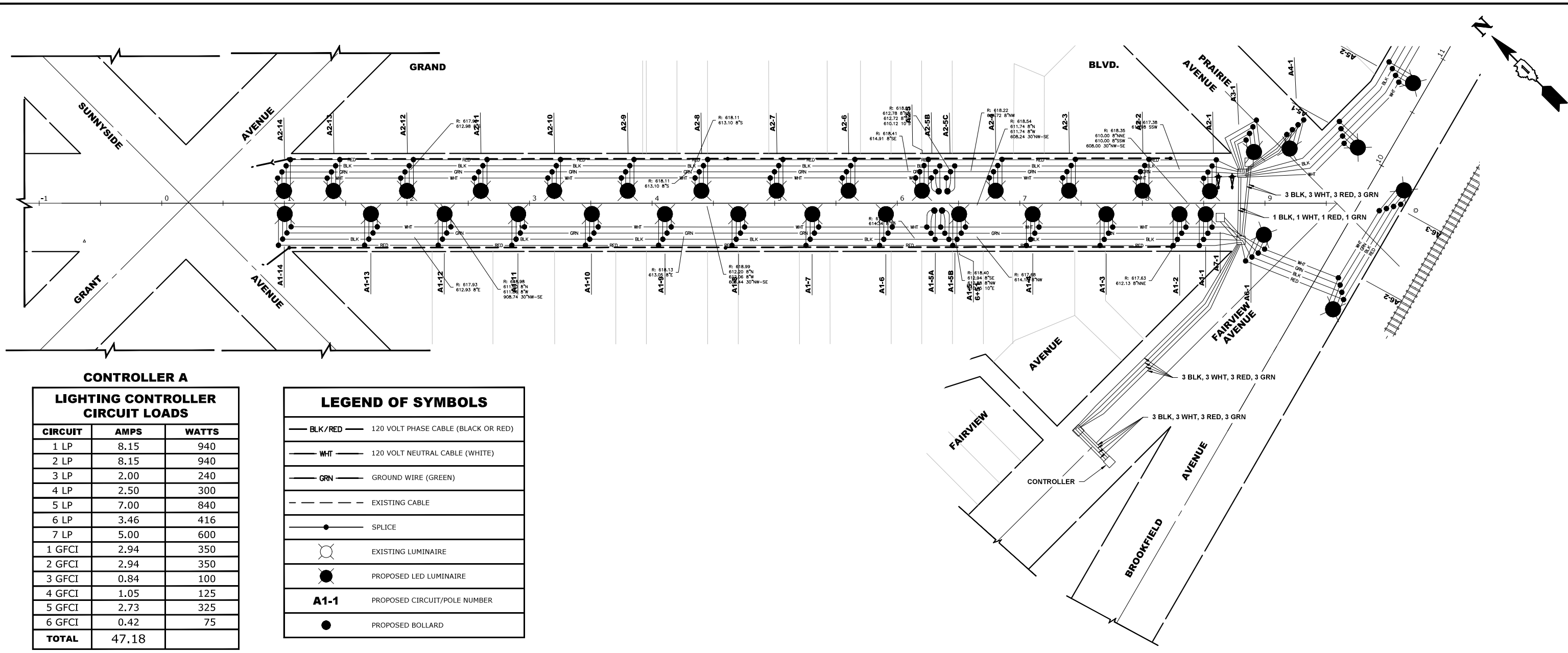
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DRAWN	ECW, SB, GD, DMM, LW	REVISED	--
CHECKED	--	REVISED	--
DATE	11-7-24	REVISED	--

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STREET LIGHTING PLAN
 SCALE: 1" = 40'
 SHEET NO. 2 OF 2 SHEETS
 STA. 19+00 TO STA. 25+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1694/1406	21-00134-00-RS	COOK	68	53
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 61K86	
FED. AID PROJECT			E.H.E. PROJECT NO. 1252100501	

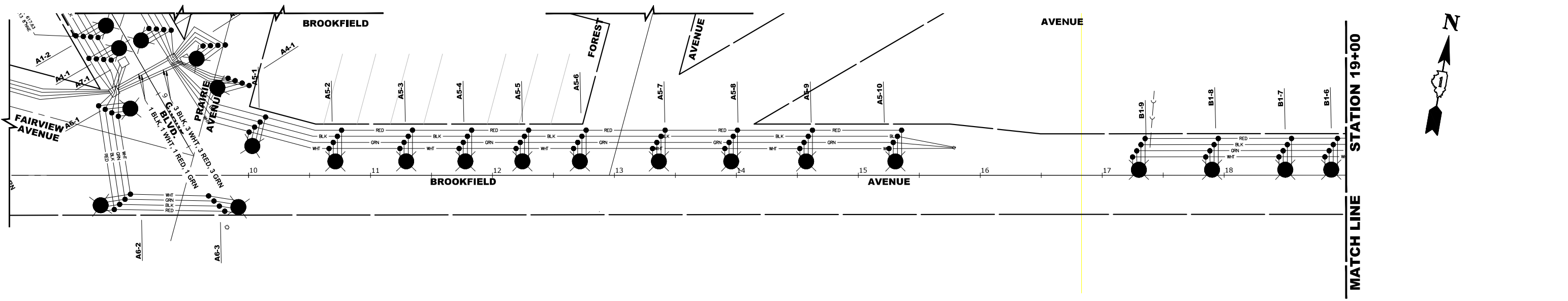
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CONTROLLER A

LIGHTING CONTROLLER CIRCUIT LOADS		
CIRCUIT	AMPS	WATTS
1 LP	8.15	940
2 LP	8.15	940
3 LP	2.00	240
4 LP	2.50	300
5 LP	7.00	840
6 LP	3.46	416
7 LP	5.00	600
1 GFCI	2.94	350
2 GFCI	2.94	350
3 GFCI	0.84	100
4 GFCI	1.05	125
5 GFCI	2.73	325
6 GFCI	0.42	75
TOTAL	47.18	

LEGEND OF SYMBOLS	
	120 VOLT PHASE CABLE (BLACK OR RED)
	120 VOLT NEUTRAL CABLE (WHITE)
	GROUND WIRE (GREEN)
	EXISTING CABLE
	SPLICE
	EXISTING LUMINAIRE
	PROPOSED LED LUMINAIRE
A1-1	PROPOSED CIRCUIT/POLE NUMBER
	PROPOSED BOLLARD



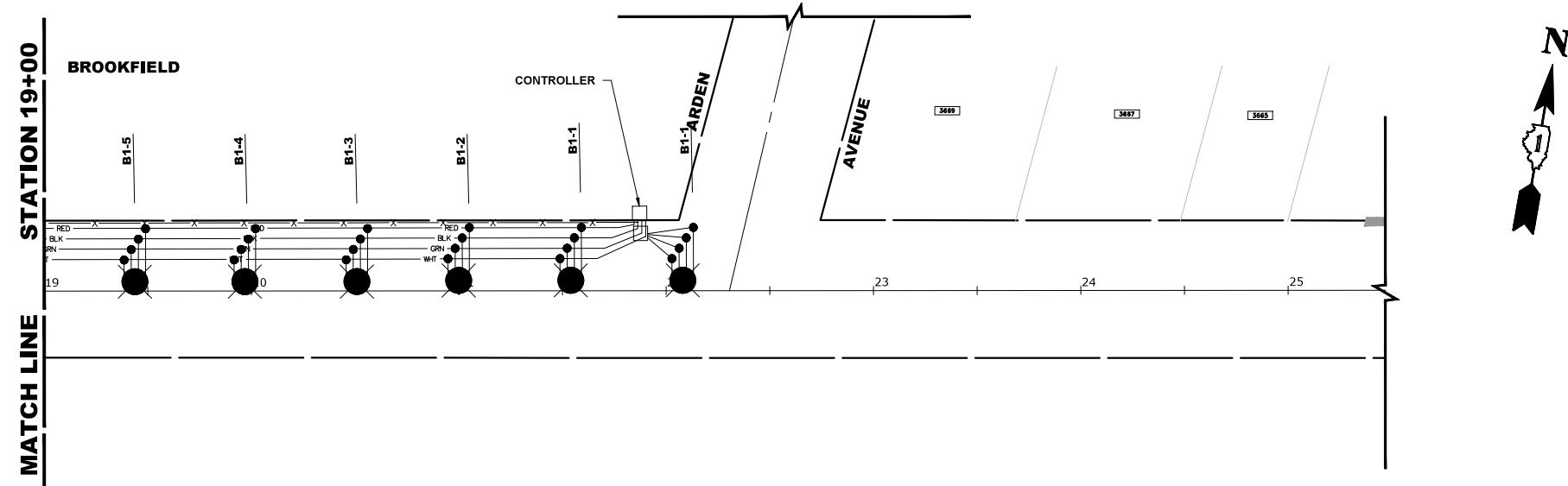
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DRAWN	ECW, SB, GD, DMM, LW	REVISED	---
CHECKED	---	REVISED	---
DATE	11-7-24	REVISED	---

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

STREET LIGHT WIRING DIAGRAM
 SCALE: 1" = 40'
 SHEET NO. 1 OF 2 SHEETS
 STA. 0+00 TO STA. 19+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1694/1408	21-00134-00-RS	COOK	68	54
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 61K86	
E.H.E. PROJECT NO. 1252100501				



**CONTROLLER B
LIGHTING CONTROLLER
CIRCUIT LOADS**

CIRCUIT	AMPS	WATTS
1 LP	4.5	540
1 GFCI	1.89	225
TOTAL	6.39	

LEGEND OF SYMBOLS

	120 VOLT PHASE CABLE (BLACK OR RED)
	120 VOLT NEUTRAL CABLE (WHITE)
	GROUND WIRE (GREEN)
	EXISTING CABLE
	SPLICE
	EXISTING LUMINAIRE
	PROPOSED LED LUMINAIRE
A1-1	PROPOSED CIRCUIT/POLE NUMBER
	PROPOSED BOLLARD

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DATE	11-7-24	REVISED	--

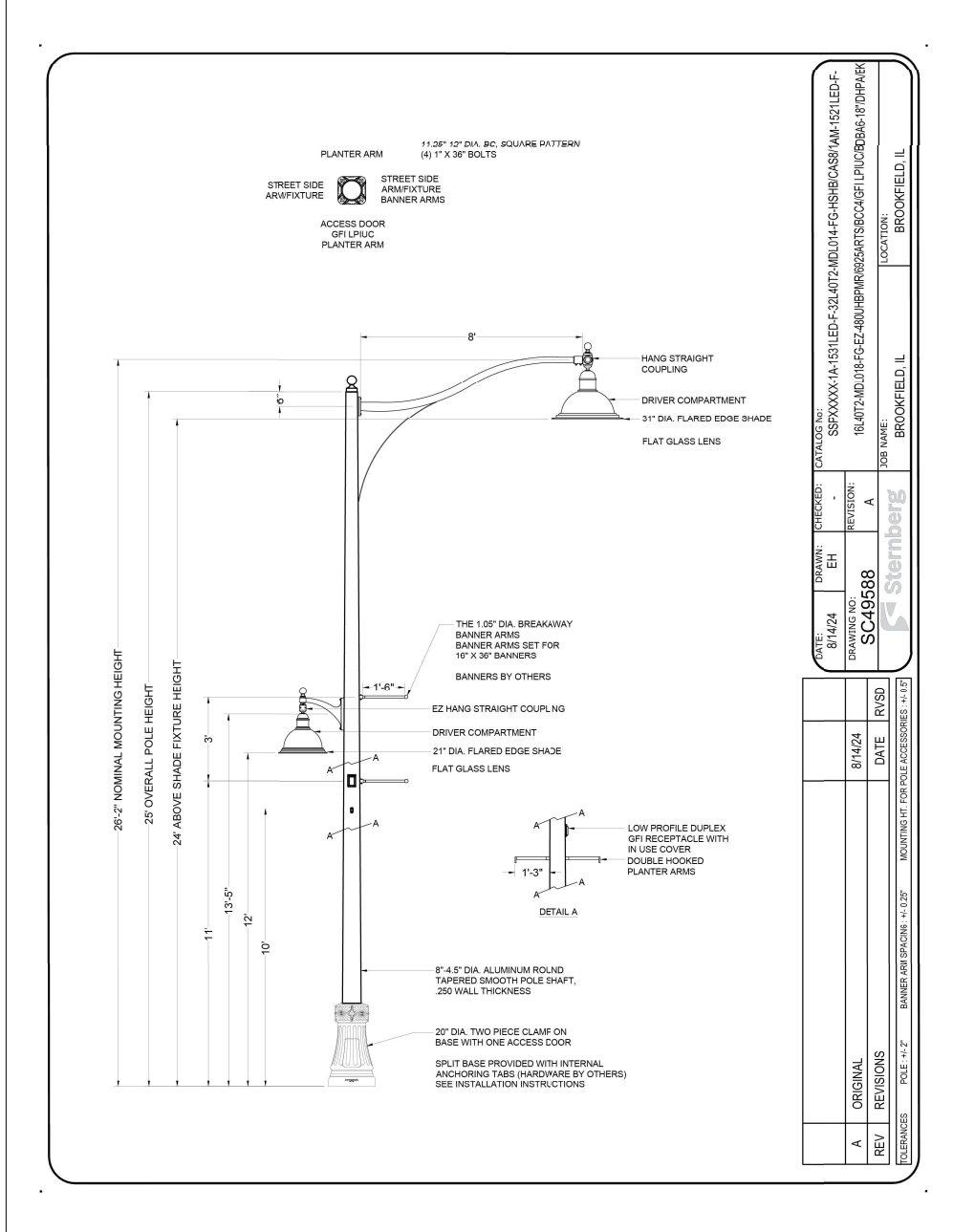
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STREET LIGHT WIRING DIAGRAM

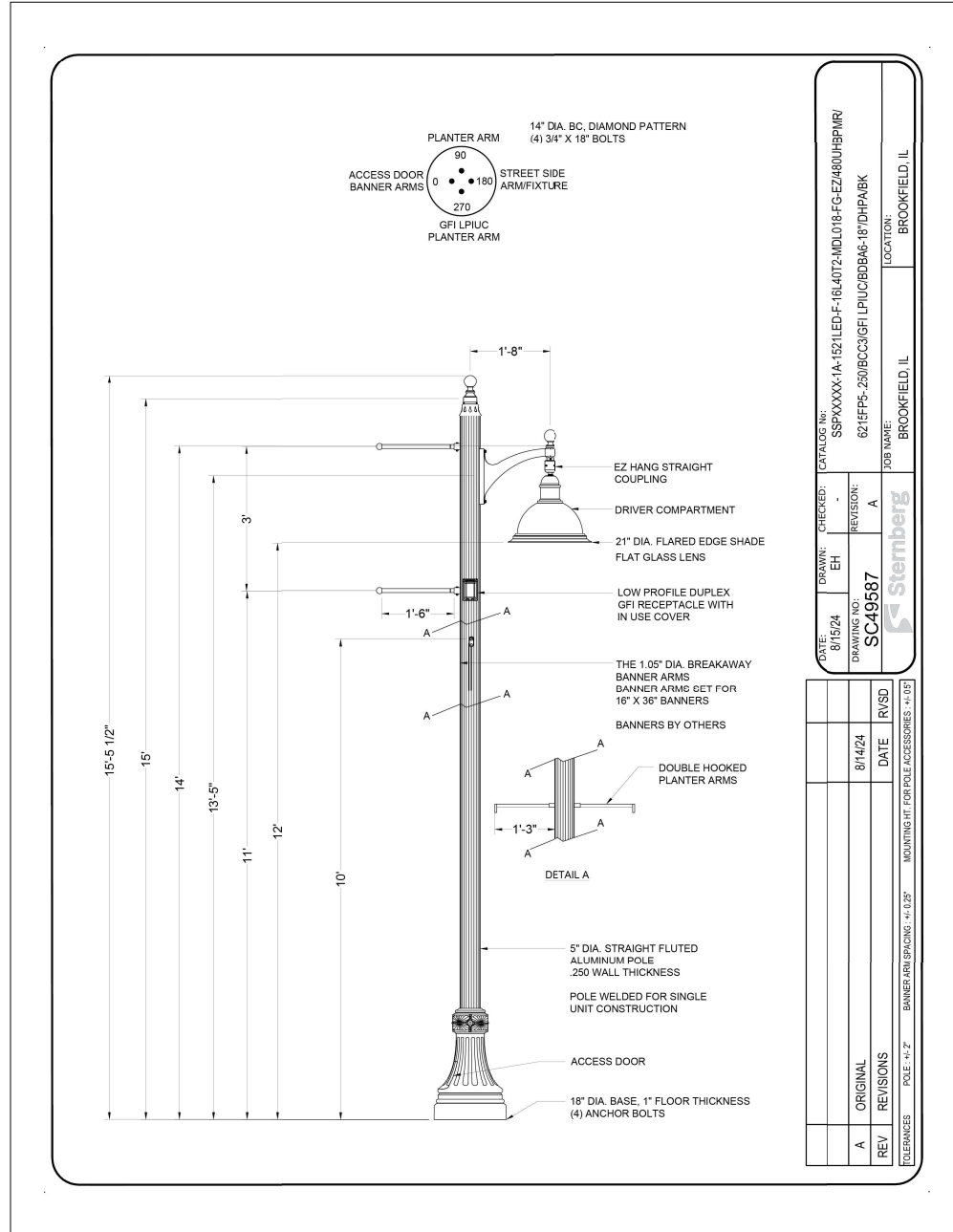
SCALE: 1" = 40' SHEET NO. 1 OF 3 SHEETS STA. 0+00 TO STA. 19+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1694/1406	21-00134-00-RS	COOK	68	55
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 61K86	
FED. AID PROJECT			E.H.E. PROJECT NO. 1252100501	

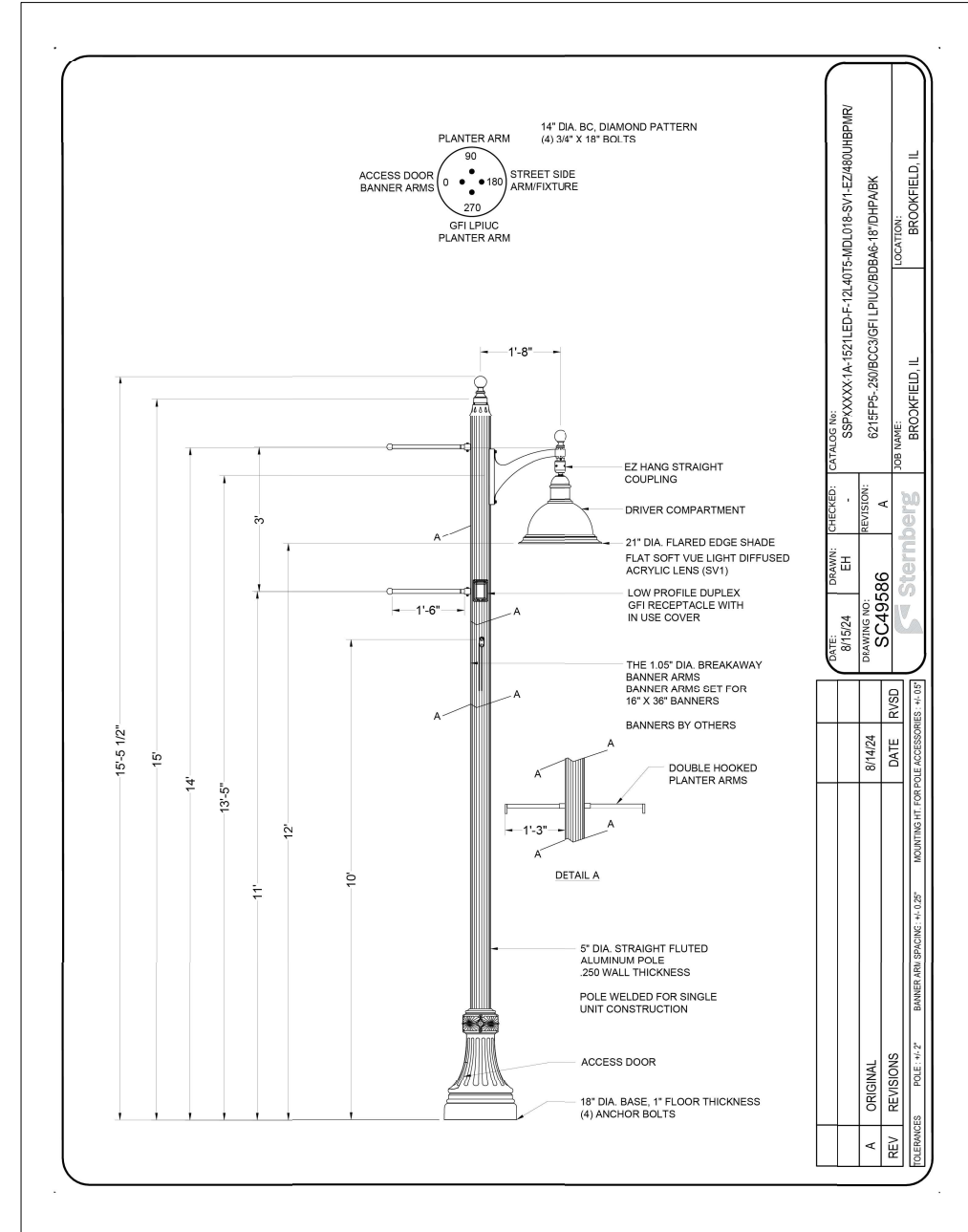
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LIGHT POLE, ALUMINUM WITH CONTEMPORARY ARM



LIGHT POLE, SPECIAL 12' (TYPE II DISTRIBUTION)



LIGHT POLE, SPECIAL 12' (TYPE V DISTRIBUTION)

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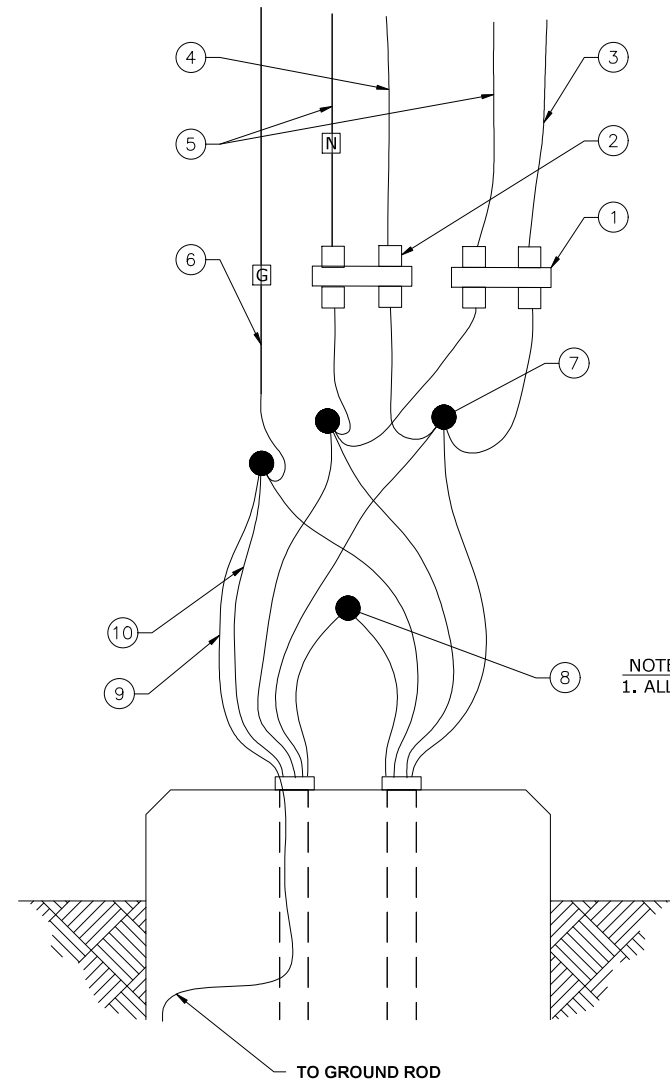
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: NONE	SHEET NO. 1 OF 4 SHEETS	STA.	TO STA.
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1694/1408	21-00134-00-RS	COOK	68	56
CONTRACT NO. 61K86				FED. AID PROJECT

E.H.E. PROJECT NO. 1252100501

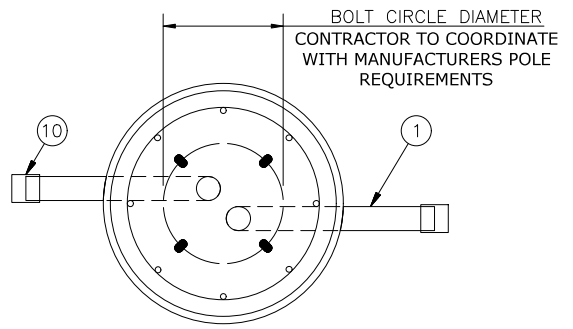
Drawing file: W:\Projects_by_Village\Brookfield\12521005 - Brookfield And 3700 Block of Grand LAFD\Electrical Detail.dwg Nov 06, 2024 - 8:15am



POLE BASE WIRING DIAGRAM
(NOT TO SCALE)

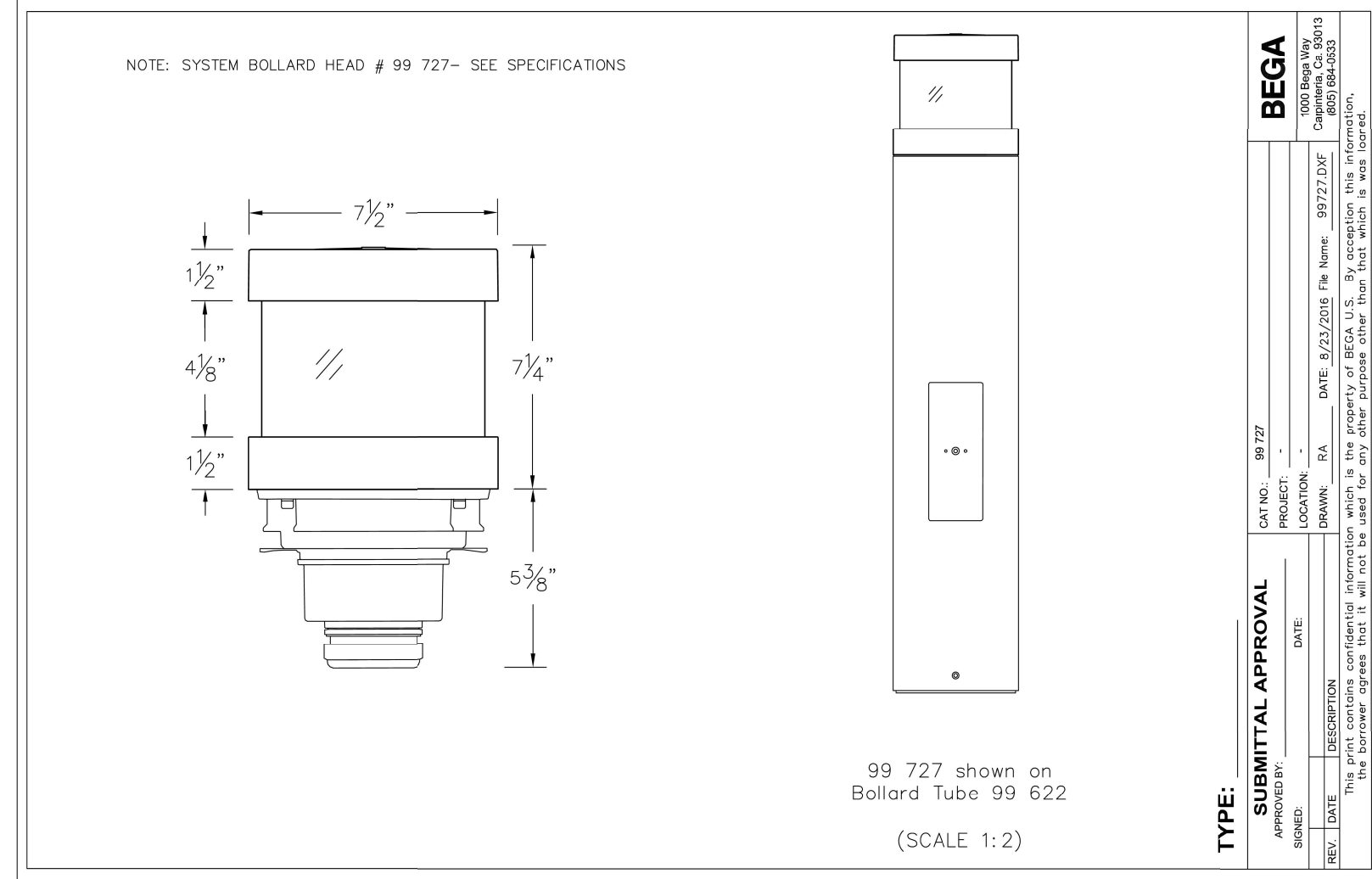
- ① DOUBLE POLE FUSE HOLDER (HEX) WITH ONE 10 AMP FUSE AND ONE NEUTRAL SOLID SLUG TO LUMINAIRES.
- ② DOUBLE POLE FUSE HOLDER (HEX) WITH ONE 10 AMP FUSE AND ONE NEUTRAL SOLID SLUG TO RECEPTACLE
- ③ PHASE CONDUCTORS SINGLE, 10 AWG, CU 600 V TO LUMINAIRES
- ④ PHASE CONDUCTORS SINGLE, 10 AWG, CU 600 V TO RECEPTACLE
- ⑤ NEUTRAL CONDUCTOR SINGLE, 10 AWG, CU 600 V
- ⑥ GROUND CONDUCTOR TO LUMINAIRES AND RECEPTACLE, 10 AWG
- ⑦ CABLE SPLICE (TYPICAL)
- ⑧ CIRCUIT TO NEXT POLE (AS APPLICABLE)
- ⑨ INSULATED GREEN GROUND CONDUCTOR TO GROUNDING ROD
- ⑩ INSULATED GROUND CONDUCTOR SIZE AS SHOWN ON PLANS

NOTES:
1. ALL FUSE HOLDERS SHALL INCLUDE BOOTS

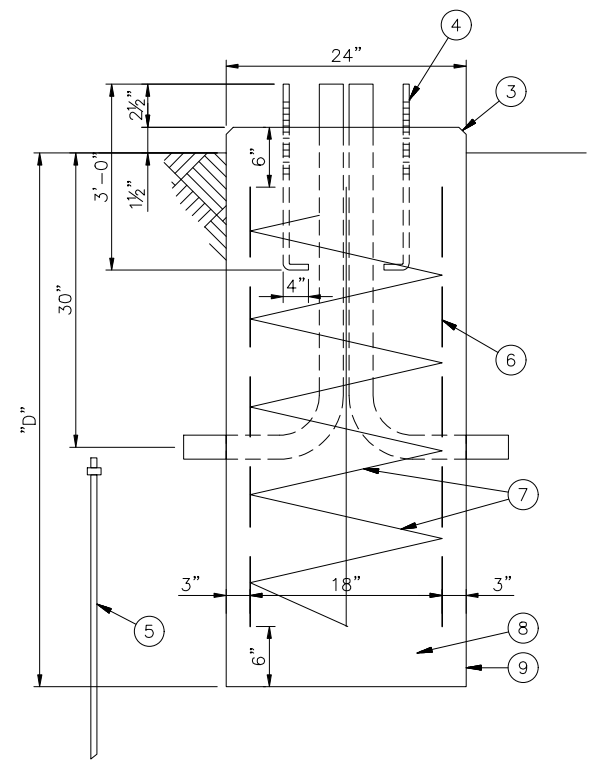


FOUNDATION DESIGN CHART			
TYPE OF SOIL	DESIGN DEPTH OF FOUNDATION	REINFORCEMENT IN FOUNDATION	
		VERT. BARS	SPIRAL
	"D"		
SOFT CLAY	11'-0"	8-#6 x 10'-0"	#4 x 157'
MEDIUM CLAY	9'-0"	8-#6 x 8'-0"	#4 x 110'
STIFF CLAY	7'-6"	8-#6 x 6'-6"	#4 x 78'
LOOSE CLAY	9'-6"	8-#6 x 8'-6"	#4 x 102'
MEDIUM SAND	9'-3"	8-#6 x 8'-3"	#4 x 88'
DENSE SAND	8'-0"	8-#6 x 7'-0"	#4 x 78'
ROCK OR SOLIDIFIED SLAG	5'-0"	NONE	NONE

- ① 2-1/2" DIA. P.V.C. ELBOW RACEWAYS
- ② MANUFACTURER TO FURNISH TEMPLATE DRAWING FOR SETTING OF ANCHOR BOLTS
- ③ 1" CHAMFER
- ④ 1"-8NC GALV. STL. ANCHOR BOLTS, AASHTO M314-90 GRADE 55, 10" OF THREADED END GALV PER ASTM A153
- ④ 1"-8NC GALV STL. HEX. NUTS
- ④ 1" GALV. STL. LOCK WASHERS
- ④ 1" GALV. STL. FLAT WASHERS
- ⑤ 5/8" x 10' GROUND ROD CONNECTED TO GROUND WIRE WITH EXOTHERMIC WELD AT LOCATIONS NOTED ON PLAN SHEETS (INCLUDED IN COST OF FOUNDATION)
- ⑥ 8-#6 REINFORCING BARS EQUALLY SPACED AROUND AN 18" DIA. CIRCLE, FOR SIZE, SEE FOUNDATION DESIGN CHART
- ⑦ #4 SPIRAL TIE BARS WITH 6" PITCH
- ⑧ CLASS SI CONCRETE
- ⑨ FOUNDATION LOCATIONS AS SHOWN ON PLAN SHEETS
- ⑩ FLEXIBLE DUET UL LISTED FITTING TO UNIT DUCT



BOLLARD, LED



LIGHT POLE FOUNDATION CONCRETE

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 9933 Roosevelt Road
 Westchester, IL 60154-2780
 Phone: 708-645-0300
 www.hancock.com

DESIGNED	--	REVISED	--
DRAWN	ECW, SB, GD, DMM, LW	REVISED	--
CHECKED	--	REVISED	--
DATE	11-7-24	REVISED	--

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

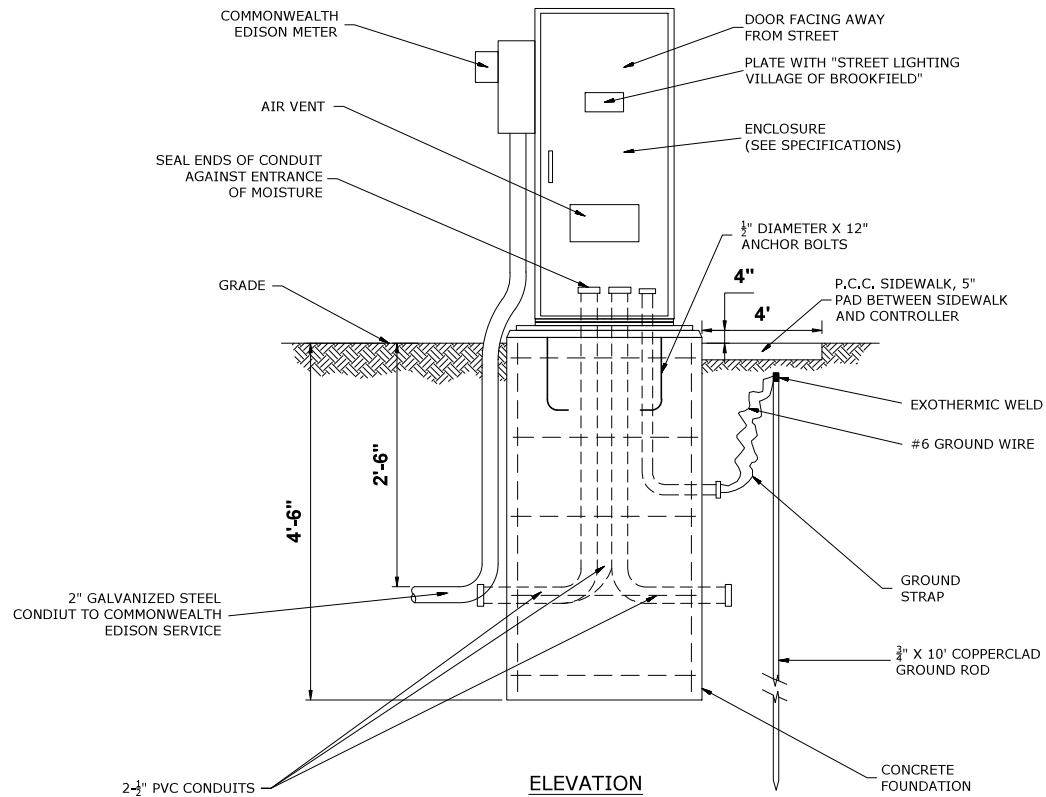
LIGHTING DETAILS
 SCALE: NONE SHEET NO. 2 OF 4 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1694/1408	21-00134-00-RS	COOK	68	57
CONTRACT NO. 61K86				FED. AID PROJECT

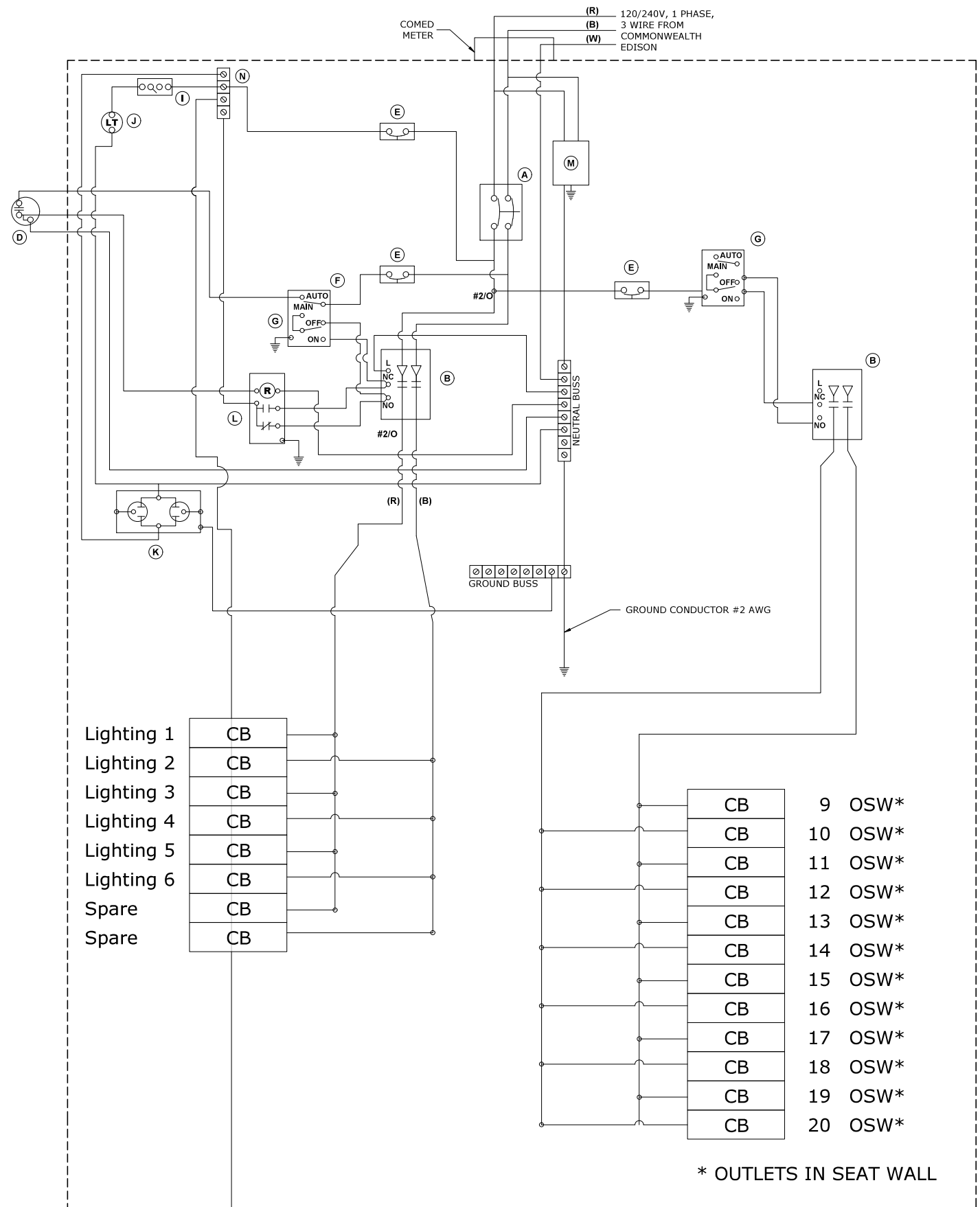
DEVICE SCHEDULE		
	QUANTITY	DESCRIPTION
(A)	1	200 AMP CIRCUIT BREAKER, MOLDED CASE, THERMAL MAGNETIC, 2-POLE, SINGLE THROW, 600V FRAME, NON-INTERCHANGABLE TRIP, BOLT ON TYPE.
(B)	2	100 AMP, ELECTRICALLY OPERATED AND MECHANICALLY HELD LIGHTING CONTRACTOR, 2-POLE, 600 VOLT WITH 120 V COIL
(C)	20	120/240 VOLT 1 PHASE PANEL BOARD WITH 100 AMP COPPER MAINS SINGLE POLE, 30 AMP, 120 VOLT BOLT ON BRANCH CIRCUIT BREAKERS
(D)	1	PHOTO-ELECTRIC CELL, 120 VOLT, MOUNT ON UNDERSIDE OF VENT ON CONTROLLER
(E)	3	THERMAL MAGNETIC, MOLDED CASE CIRCUIT BREAKER, 1 POLE, 15 AMP, 120 VOLT BOLT ON TYPE
(F)	1	CONTROL SWITCH, MOMENTARY CONTACT, SPDT, 15 AMP, 120 VOLT
(G)	2	CONTROL SWITCH, TOGGLE TYPE, SPDT, 20 AMP, 120 VOLT SPECIAL GRADE
(I)	1	MICRO SWITCH (MOUNTED WITH ACTUATOR TO SWITCH WHEN DOOR IS OPEN) 120 VOLT, 20 AMP
(J)	1	LED LIGHT FIXTURE VAPOR TIGHT WITH GLOBE, GUARD, AND MOUNTING BOX
(K)	1	120 VOLT, 20 AMP RECEPTACLE, SPECIFICATION GRADE IN NEMA 5-15R WEATHER PROOF BOX WITH FLAP-TYPE COVER, OUTLET TO BE GFI-TYPE.
(L)	1	POWER RELAY WITH 25 AMP CONTACTS RATED FOR CONTRACTOR INRUSH CURRENT - 120 VOLT COIL
(M)	1	SURGE ARRESTOR, 5 WIRE EDCO "4803 OR EQUAL
(N)	1	TERMINAL BLOCK, 120 VOLT, 50 AMP MAXIMUM WITH NUMBER OF TERMINALS AS INDICATED

NOTES:

1. ALL CIRCUIT BREAKERS SHALL HAVE AN INTERRUPT RATING OF 18,000 AMPS
2. UL LISTED DEVICES/COMPONENTS SHALL BE USED
3. NO SPLICES OF WIRES IN CABINET
4. CONTROL WIRE TO BE #12 MTW
5. POWER WIRE SHALL BE RATED RHH/RHW 600 VOLTS OF SIZE INDICATED
6. LIGHTING CONTROLLER SHALL BE SERVICE ENTRANCE RATED
7. PANEL SHALL BE DEAD FRONT TO ALLOW OPERATION OF HOA SWITCH
8. CIRCUITS 9-20 FOR SEAT WALL OUTLETS NOT CONTROLLED BY PHOTOCELL



LIGHTING CONTROLLER & FOUNDATION



120/240 VOLT 200 AMP CONTROLLER PANEL WIRING DIAGRAM

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DESIGNED --	REVISD --
DRAWN -- ECW, SB, GD, DMM, LW	REVISD --
CHECKED --	REVISD --
DATE -- 11-7-24	REVISD --

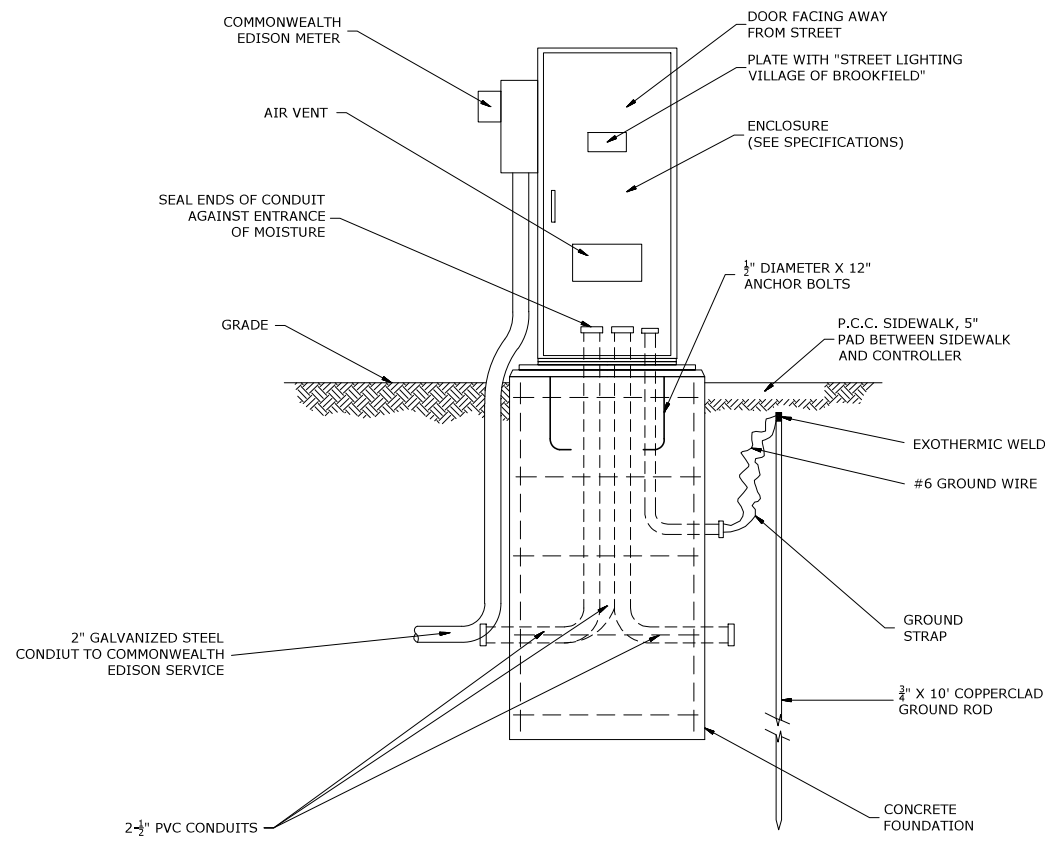
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

LIGHTING DETAILS	
SCALE: NONE	SHEET NO. 3 OF 4 SHEETS
STA.	TO STA.

F.A.U. RTE. 1694/1408	SECTION 21-00134-00-RS	COUNTY COOK	TOTAL SHEETS 68	SHEET NO. 58
CONTRACT NO. 61K86			FED. AID PROJECT	

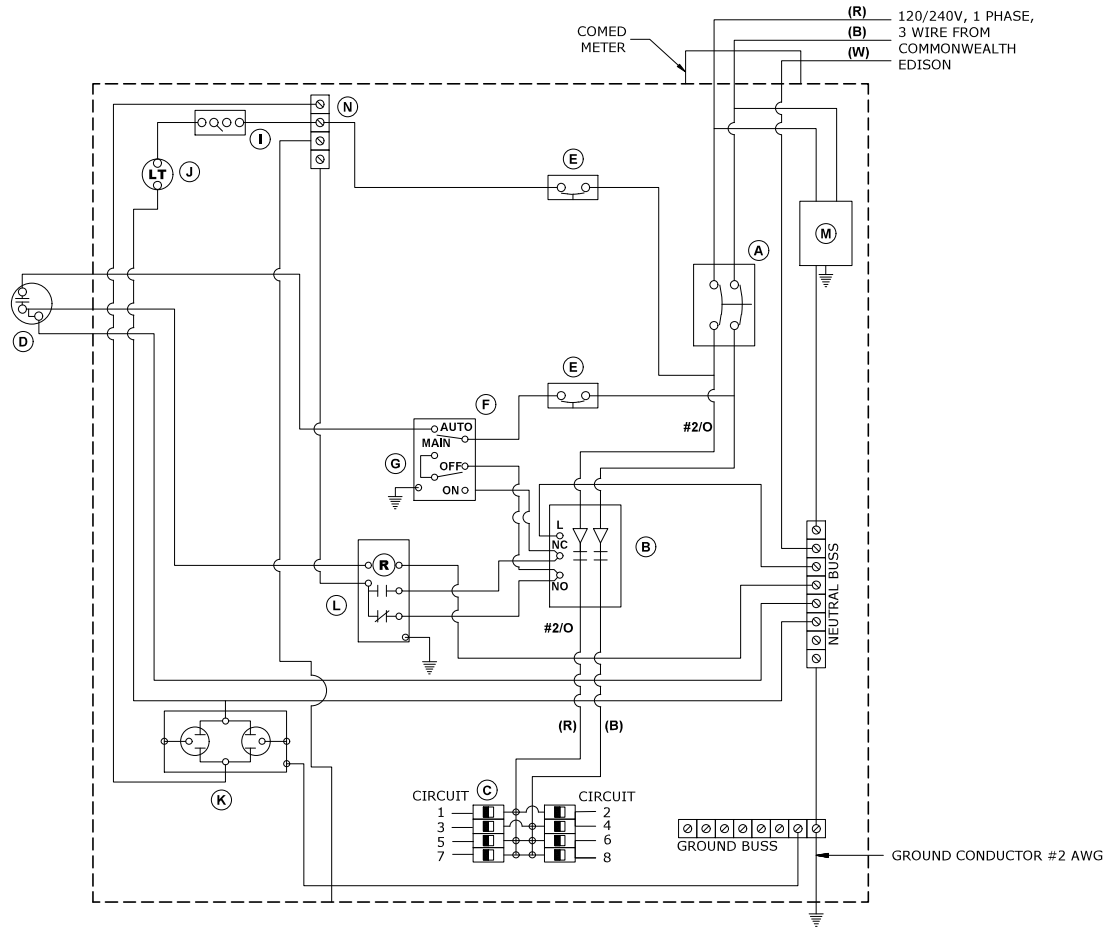
E.H.E. PROJECT NO. 1252100501

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ELEVATION

LIGHTING CONTROLLER & FOUNDATION



DEVICE SCHEDULE		
SYMBOL	QUANTITY	DESCRIPTION
(A)	1	100 AMP CIRCUIT BREAKER, MOLDED CASE, THERMAL MAGNETIC, 2-POLE, SINGLE THROW, 600V FRAME, NON-INTERCHANGABLE TRIP, BOLT ON TYPE.
(B)	1	100 AMP, ELECTRICALLY OPERATED AND MECHANICALLY HELD LIGHTING CONTRACTOR, 2-POLE, 600 VOLT WITH 120 V COIL
(C)	8	120/240 VOLT 1 PHASE PANEL BOARD WITH 100 AMP COPPER MAINS SINGLE POLE, 30 AMP, 120 VOLT BOLT ON BRANCH CIRCUIT BREAKERS
(D)	1	PHOTO-ELECTRIC CELL, 120 VOLT, MOUNT ON UNDERSIDE OF VENT ON CONTROLLER
(E)	2	THERMAL MAGNETIC, MOLDED CASE CIRCUIT BREAKER, 1 POLE, 15 AMP, 120 VOLT BOLT ON TYPE
(F)	1	CONTROL SWITCH, MOMENTARY CONTACT, SPDT, 15 AMP, 120 VOLT
(G)	1	CONTROL SWITCH, TOGGLE TYPE, SPDT, 20 AMP, 120 VOLT SPECIAL GRADE
(I)	1	MICRO SWITCH (MOUNTED WITH ACTUATOR TO SWITCH WHEN DOOR IS OPEN) 120 VOLT, 20 AMP
(J)	1	LED LIGHT FIXTURE VAPOR TIGHT WITH GLOBE, GUARD, AND MOUNTING BOX
(K)	1	120 VOLT, 20 AMP RECEPTACLE, SPECIFICATION GRADE IN NEMA 5-15R WEATHER PROOF BOX WITH FLAP-TYPE COVER, OUTLET TO BE GFI-TYPE.
(L)	1	POWER RELAY WITH 25 AMP CONTACTS RATED FOR CONTRACTOR INRUSH CURRENT - 120 VOLT COIL
(M)	1	SURGE ARRESTOR, 5 WIRE EDCO "4803 OR EQUAL
(N)	1	TERMINAL BLOCK, 120 VOLT, 50 AMP MAXIMUM WITH NUMBER OF TERMINALS AS INDICATED

- NOTES:
- ALL CIRCUIT BREAKERS SHALL HAVE AN INTERRUPT RATING OF 18,000 AMPS
 - UL LISTED DEVICES/COMPONENTS SHALL BE USED
 - NO SPLICES OF WIRES IN CABINET
 - CONTROL WIRE TO BE #12 MTW
 - POWER WIRE SHALL BE RATED RHH/RHW 600 VOLTS OF SIZE INDICATED
 - LIGHTING CONTROLLER SHALL BE SERVICE ENTRANCE RATED
 - PANEL SHALL BE DEAD FRONT TO ALLOW OPERATION OF HOA SWITCH

120/240 VOLT 100 AMP CONTROLLER PANEL WIRING DIAGRAM

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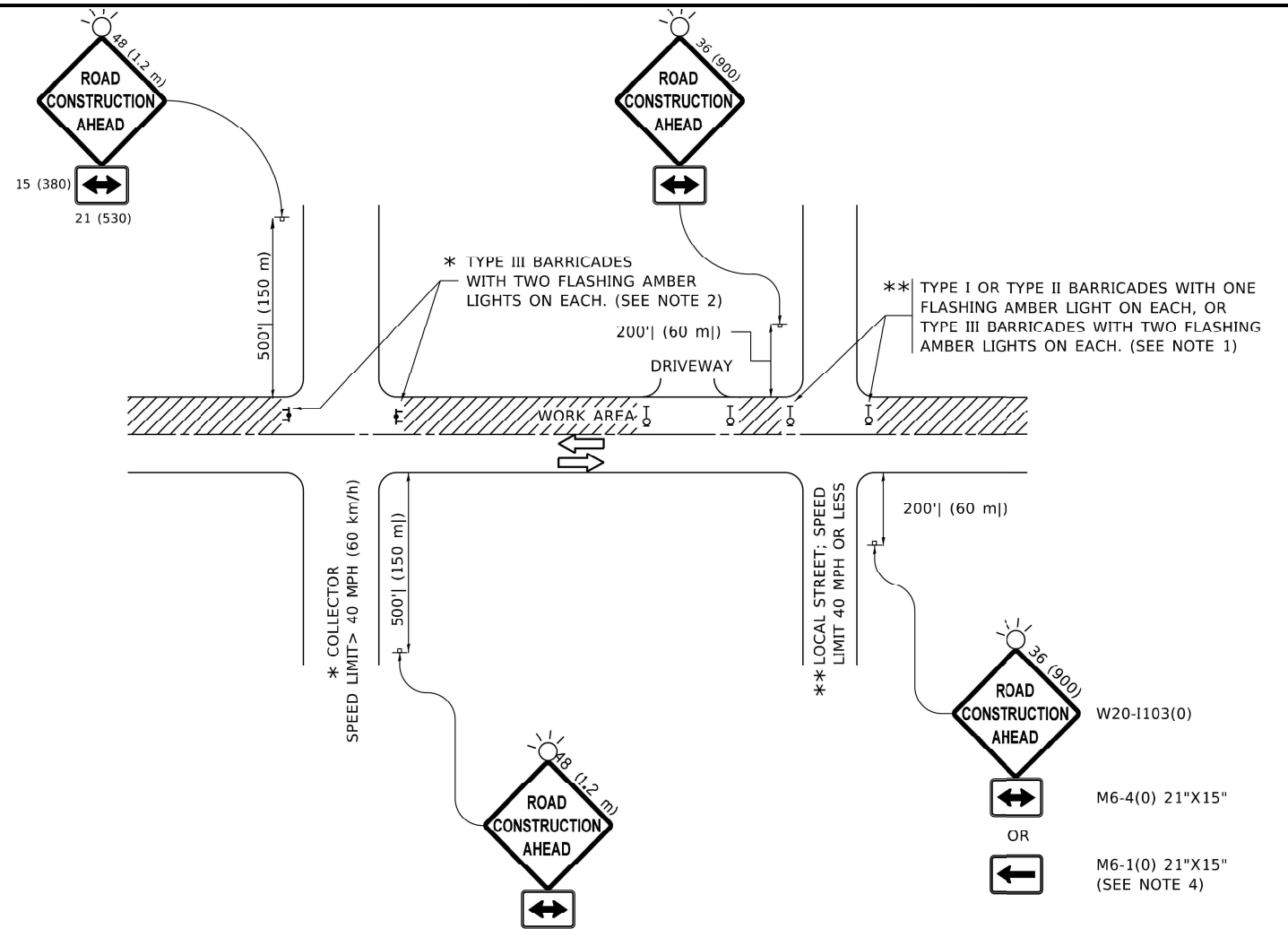
DESIGNED	--	REVISED	--
DRAWN	ECW, SB, GD, DMM, LW	REVISED	--
CHECKED	--	REVISED	--
DATE	11-7-24	REVISED	--

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LIGHTING DETAILS	
SCALE: NONE	SHEET NO. 4 OF 4 SHEETS
STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1694/1408	21-00134-00-RS	COOK	68	59
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 61K86	
FED. AID PROJECT				

Drawing file: W:\Projects_by_Village\Brockfield\12521005 - Brockfield And 3700 Block of Grand LAFD\DOT Standard.dwg Nov 08, 2024 - 8:16am



NOTES:

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

USER NAME = Lawrence.DeManche	DESIGNED - L.H.A.	REVISED - T. RAMMACHER 01-06-00
	DRAWN -	REVISED - A. SCHUETZE 07-01-13
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - A. SCHUETZE 09-15-16
PLOT DATE = 5/3/2024	DATE - 06-89	REVISED - D. SENDERAK 05-03-24

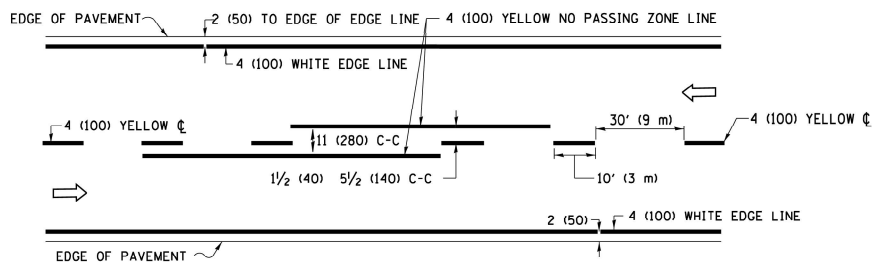
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

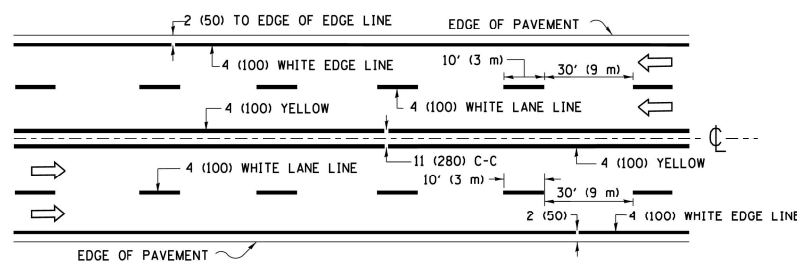
SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.	F.A.U. RTE. 1694/1408	SECTION 21-00134-00-RS	COUNTY COOK	TOTAL SHEETS 68	SHEET NO. 60
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TC-10	CONTRACT NO. 61K86
FED. ROAD DIST. NO. 1 ILLINOIS	FED. AID PROJECT

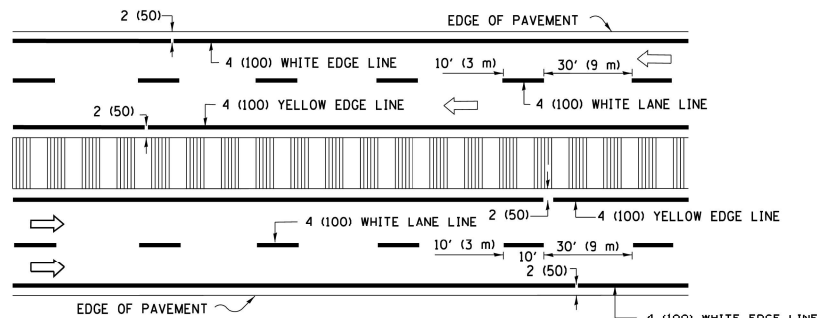
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2-LANE ROADWAY

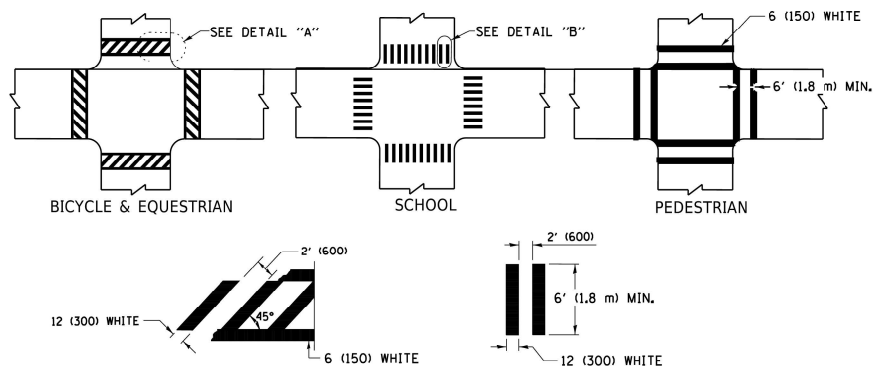


MULTI-LANE UNDIVIDED



MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

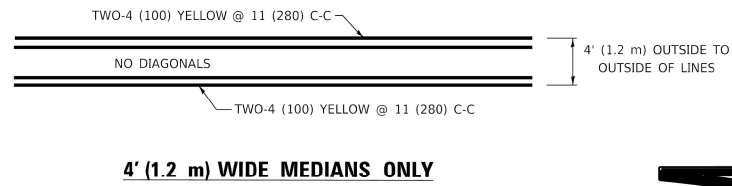


DETAIL "A"

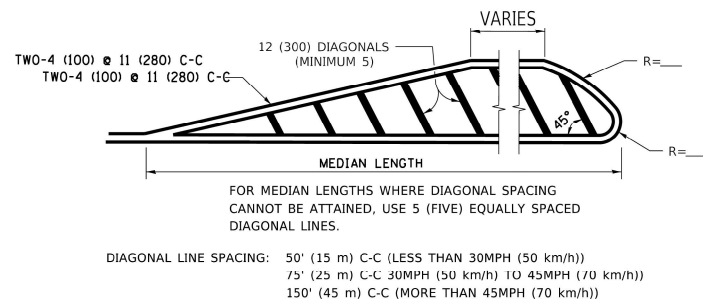
DETAIL "B"

TYPICAL CROSSWALK MARKING

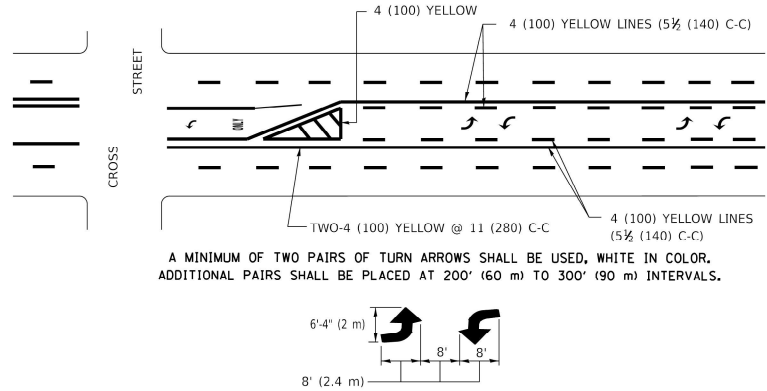
* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



4' (1.2 m) WIDE MEDIANS ONLY

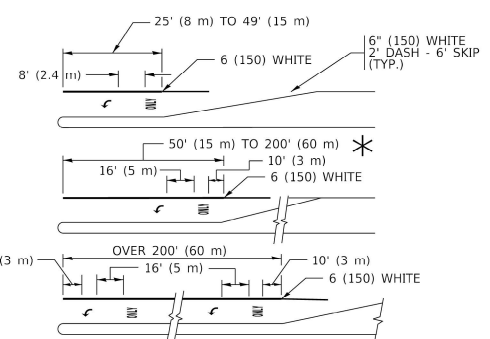


MEDIANS OVER 4' (1.2 m) WIDE



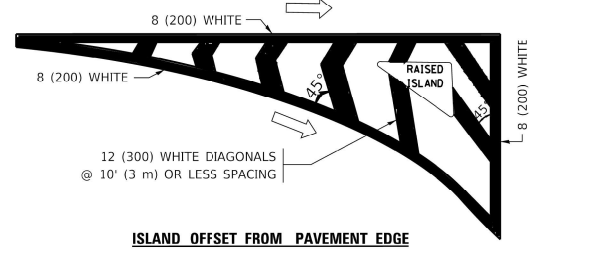
MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

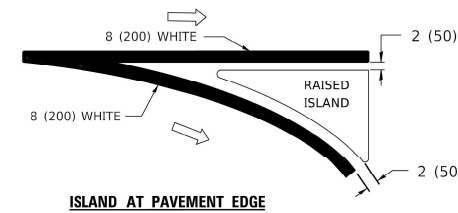


TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

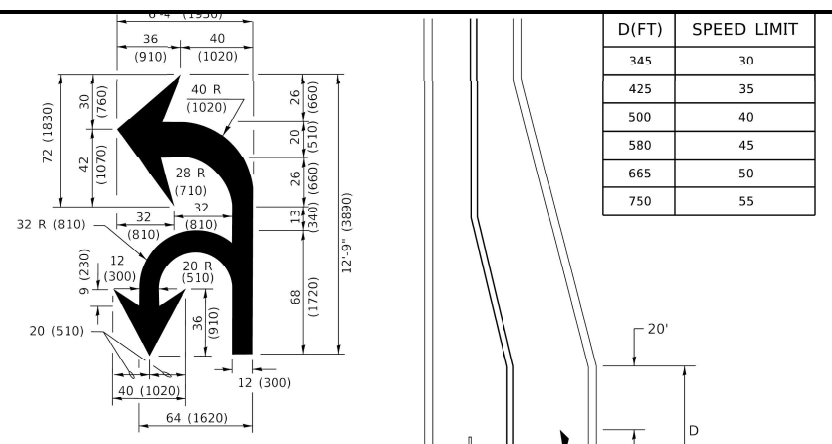


ISLAND OFFSET FROM PAVEMENT EDGE

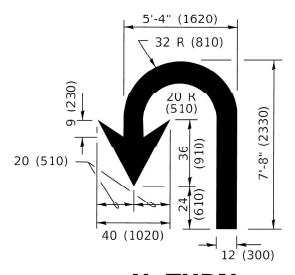


ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION

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

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

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

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

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

USER NAME = footemj	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
	DRAWN -	REVISED - C. JUCIUS 07-01-13
PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED - C. JUCIUS 12-21-15
PLOT DATE = 3/4/2019	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16

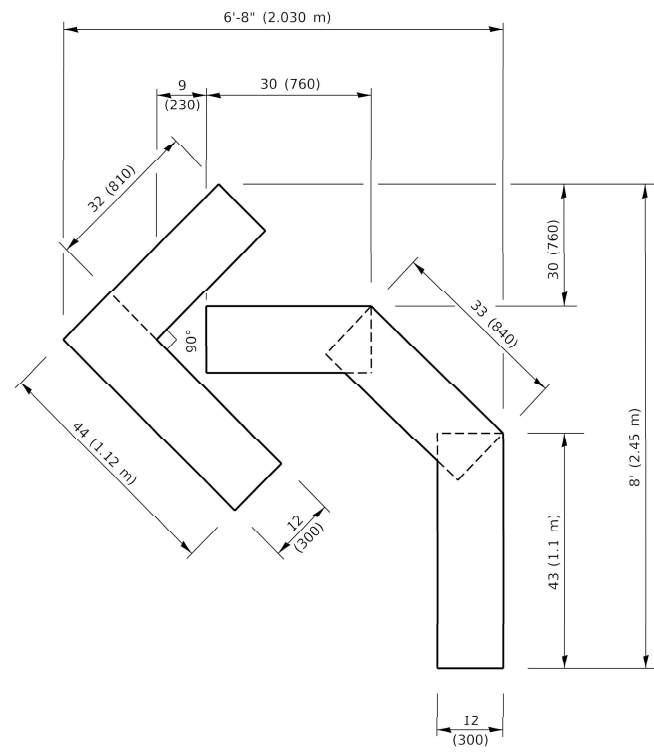
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE TYPICAL PAVEMENT MARKINGS

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

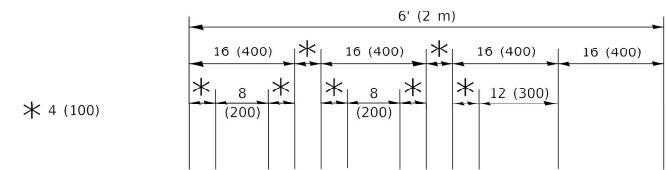
F.A.U. RTE. 1694/1408	SECTION 21-00134-00-RS	COUNTY COOK	TOTAL SHEETS 68	SHEET NO. 61
TC-13		CONTRACT NO. 61K86		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

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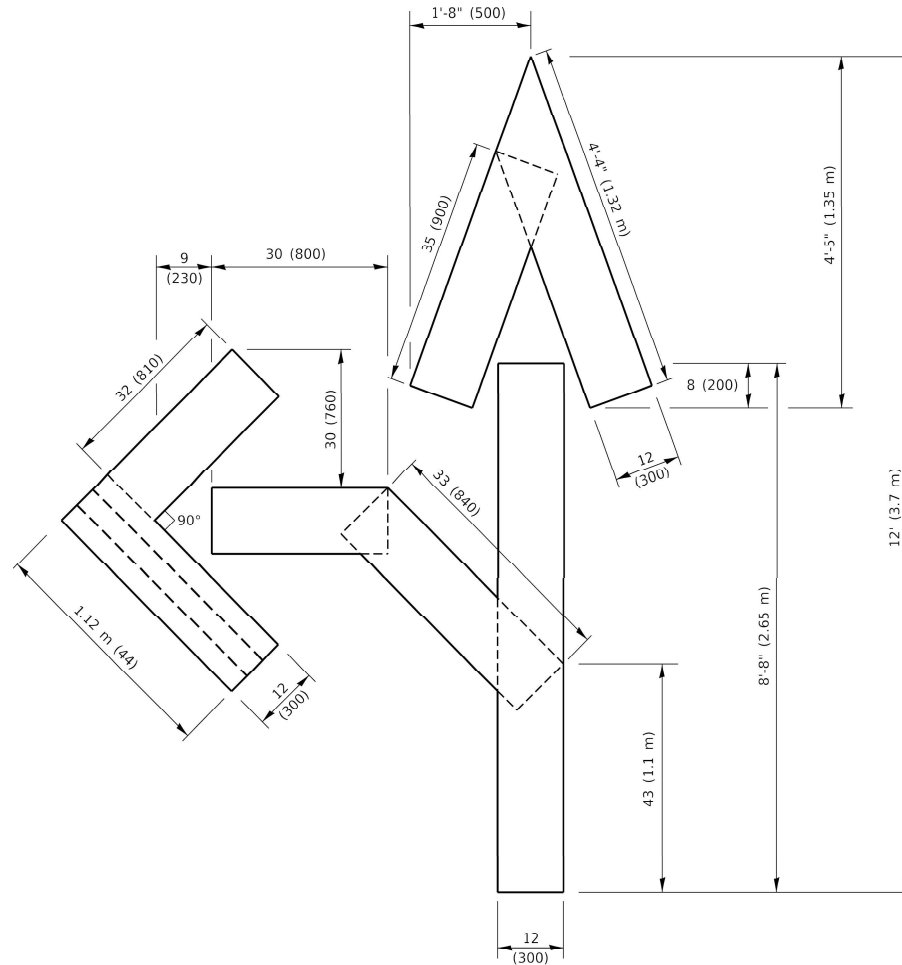
QUANTITY

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)

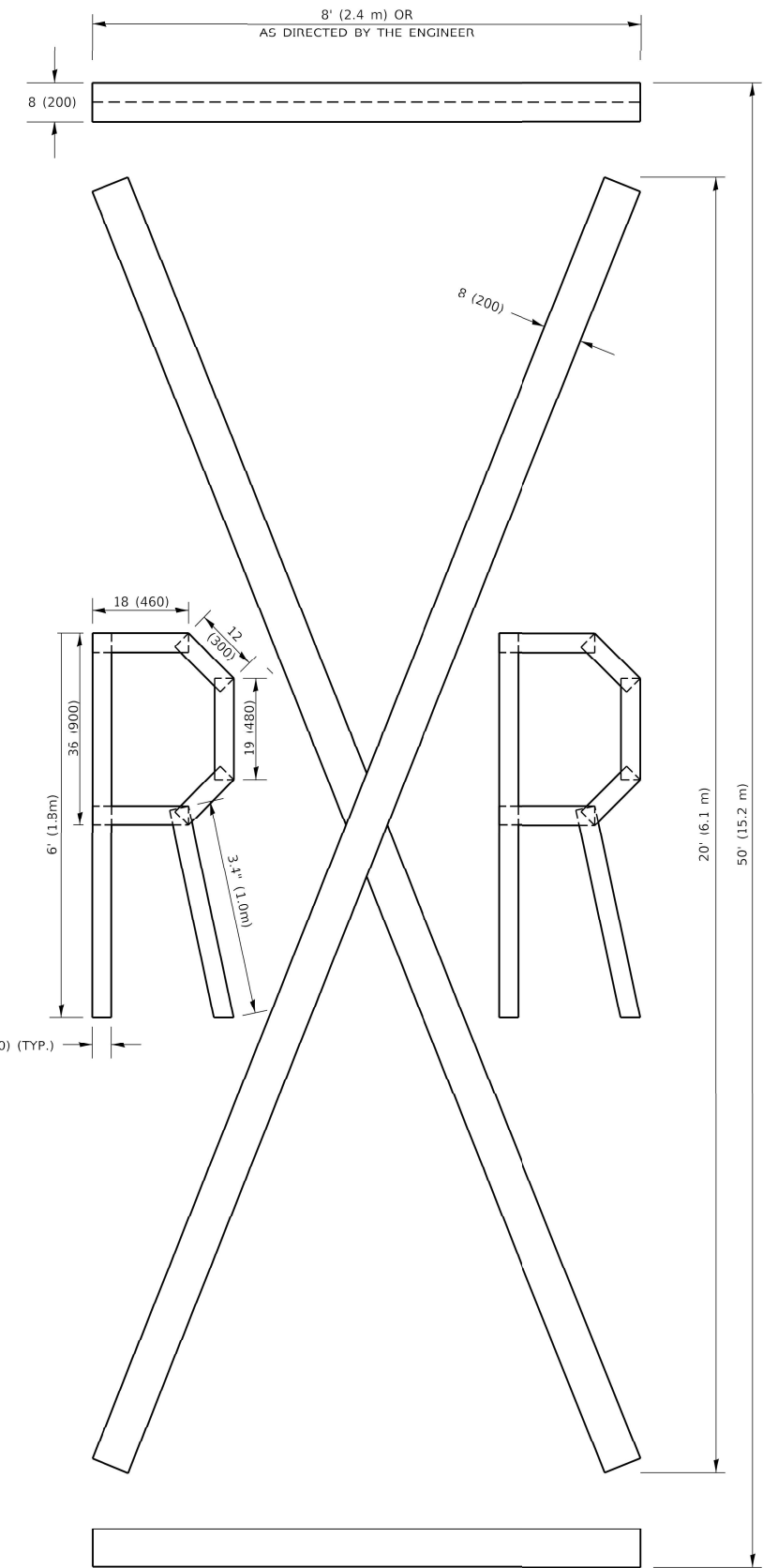


QUANTITY

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.

USER NAME = footem	DESIGNED -	REVISED - T. RAMMACHER 03-02-98
	DRAWN -	REVISED - E. GOMEZ 08-28-00
PLOT SCALE = 50.0068' / in.	CHECKED -	REVISED - E. GOMEZ 08-28-00
PLOT DATE = 3/4/2019	DATE - 09-18-94	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS

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

F.A.U. RTE. 1694/1408	SECTION 21-00134-00-RS	COUNTY COOK	TOTAL SHEETS 68	SHEET NO. 62
TC-16		CONTRACT NO. 61K86		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

Drawing file: W:\Projects_by_Village\Brookfield\12521005 - Brookfield And 3700 Block of Grand LAF0\DOT Standard.dwg Nov 08, 2024 - 8:16am

ROUTE MARKERS

FOR U.S. ROUTES
M1-40-2424

FOR ILLINOIS ROUTES
M1-50-2424

MAIN STREET
R.R. UNMARKED ROUTES
SPECIAL 24" x 18" VARIABLE
4" BLACK LETTERS ON WHITE
REFLECTIVE BACKGROUND

ARROWS SIGNS

M5-1L-2115

M5-1R-2115

M6-1-2115

M6-1-2115

M6-3-2115

CARDINAL DIRECTION & DETOUR SIGNS

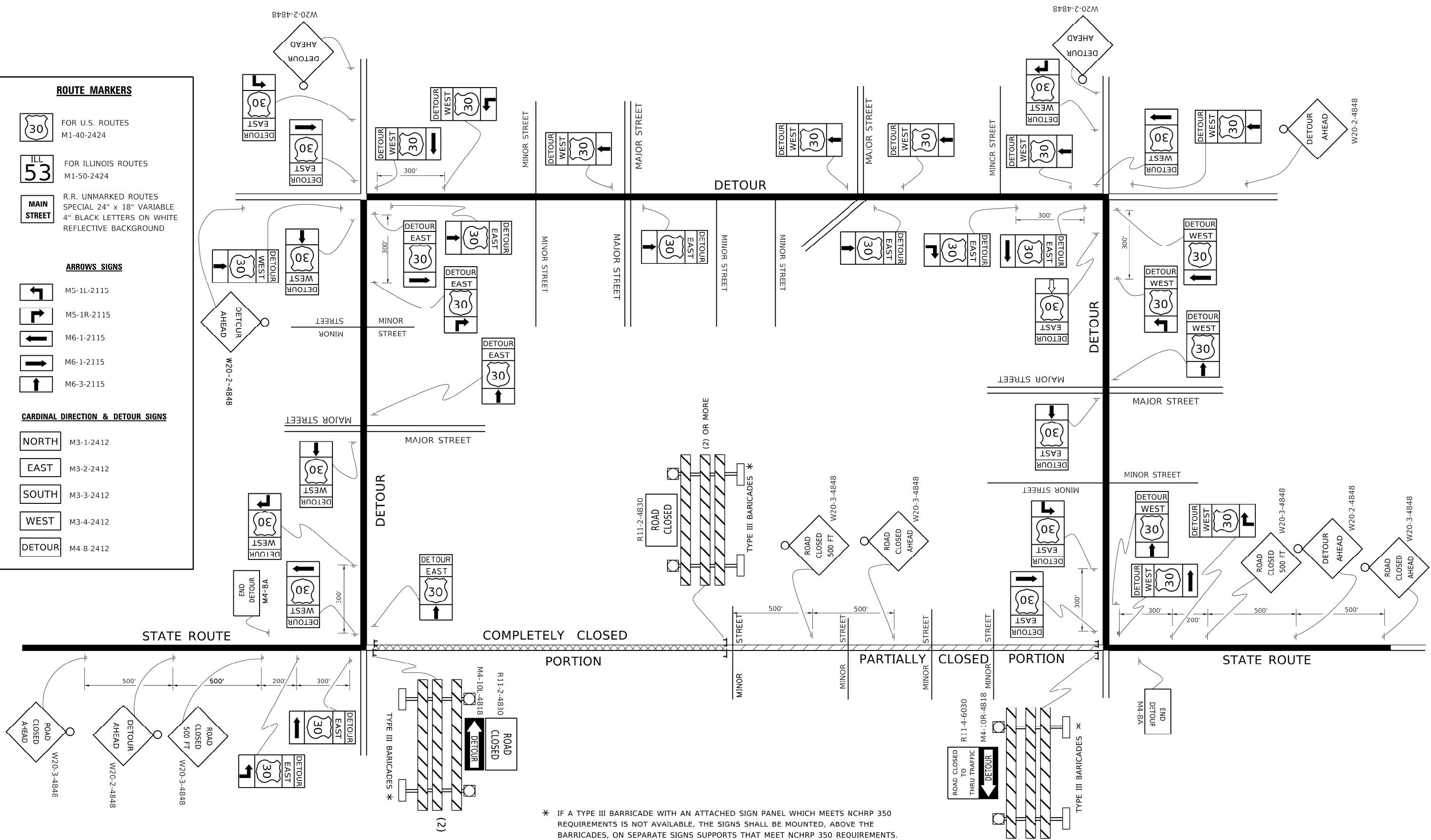
NORTH M3-1-2412

EAST M3-2-2412

SOUTH M3-3-2412

WEST M3-4-2412

DETOUR M4-8-2412



* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

USER NAME = footemj	DESIGNED -	REVISED - 10-18-02
	DRAWN -	REVISED - R. BORO 09-14-09
PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/4/2019	DATE -	REVISED -

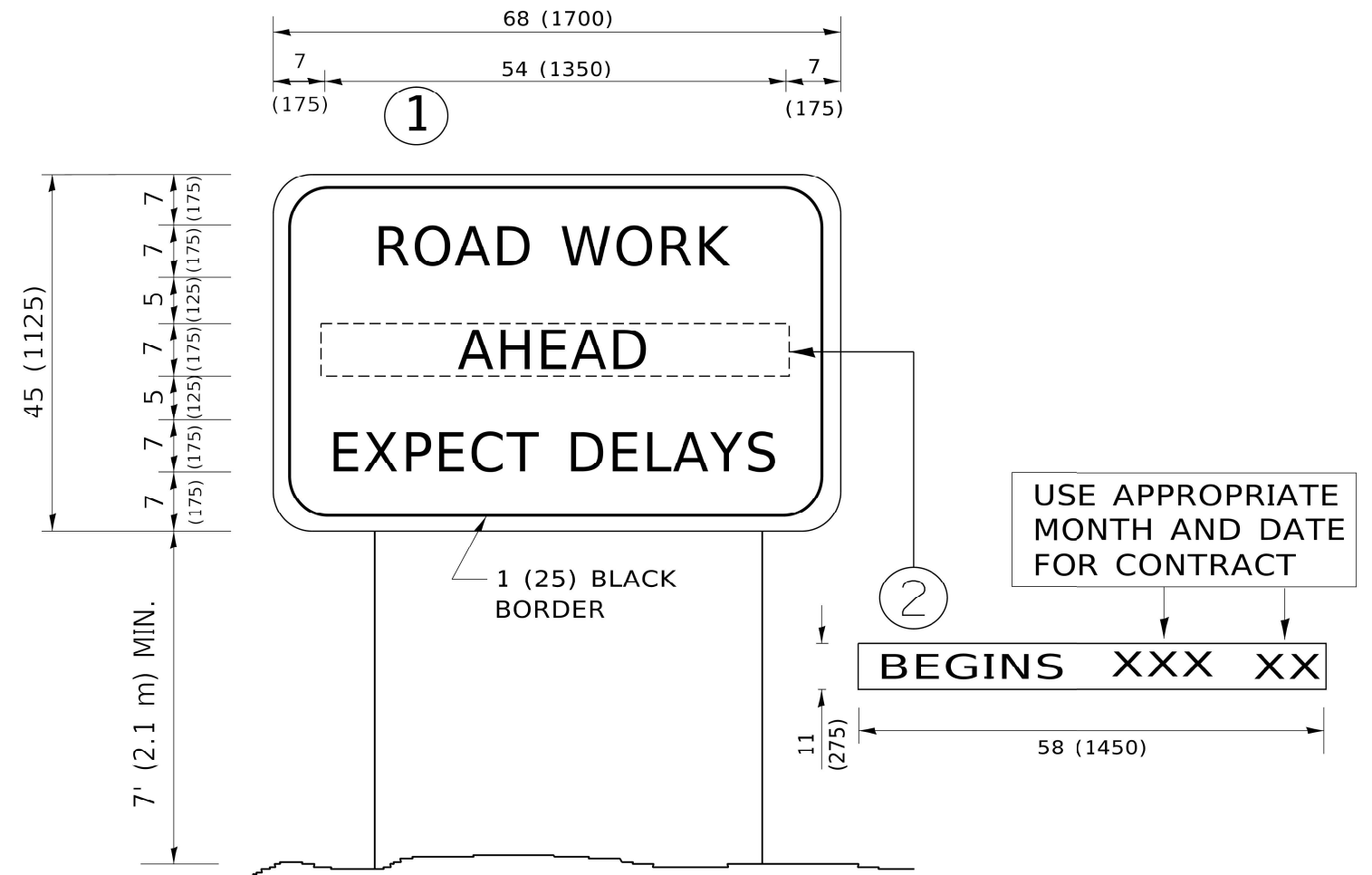
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETOUR SIGNING
FOR CLOSING STATE HIGHWAYS**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1694/1408	21-00134-00-RS	COOK	68	63
TC-21		CONTRACT NO. 61K86		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

Drawing file: W:\Projects_by_Village\Brookfield\12521005 - Brookfield And 3700 Block of Grand LAFD\DOT Standard.dwg Nov 08, 2024 - 8:16am



NOTES:

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

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

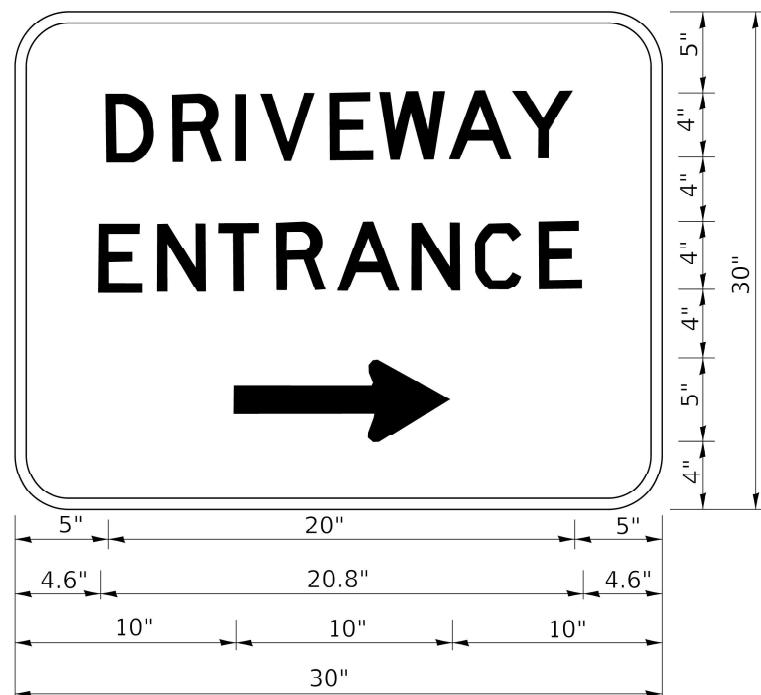
USER NAME = footemj	DESIGNED -	REVISED - R. MIRS 09-15-97
	DRAWN -	REVISED - R. MIRS 12-11-97
PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1694/1408	21-00134-00-RS	COOK	68	64
TC-22		CONTRACT NO. 61K86		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

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



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".

Drawing file: W:\Projects_by_Village\Brookfield\12521005 - Brookfield And 3700 Block of Grand LAF\DOT Standard.dwg Nov 08, 2024 - 8:16am

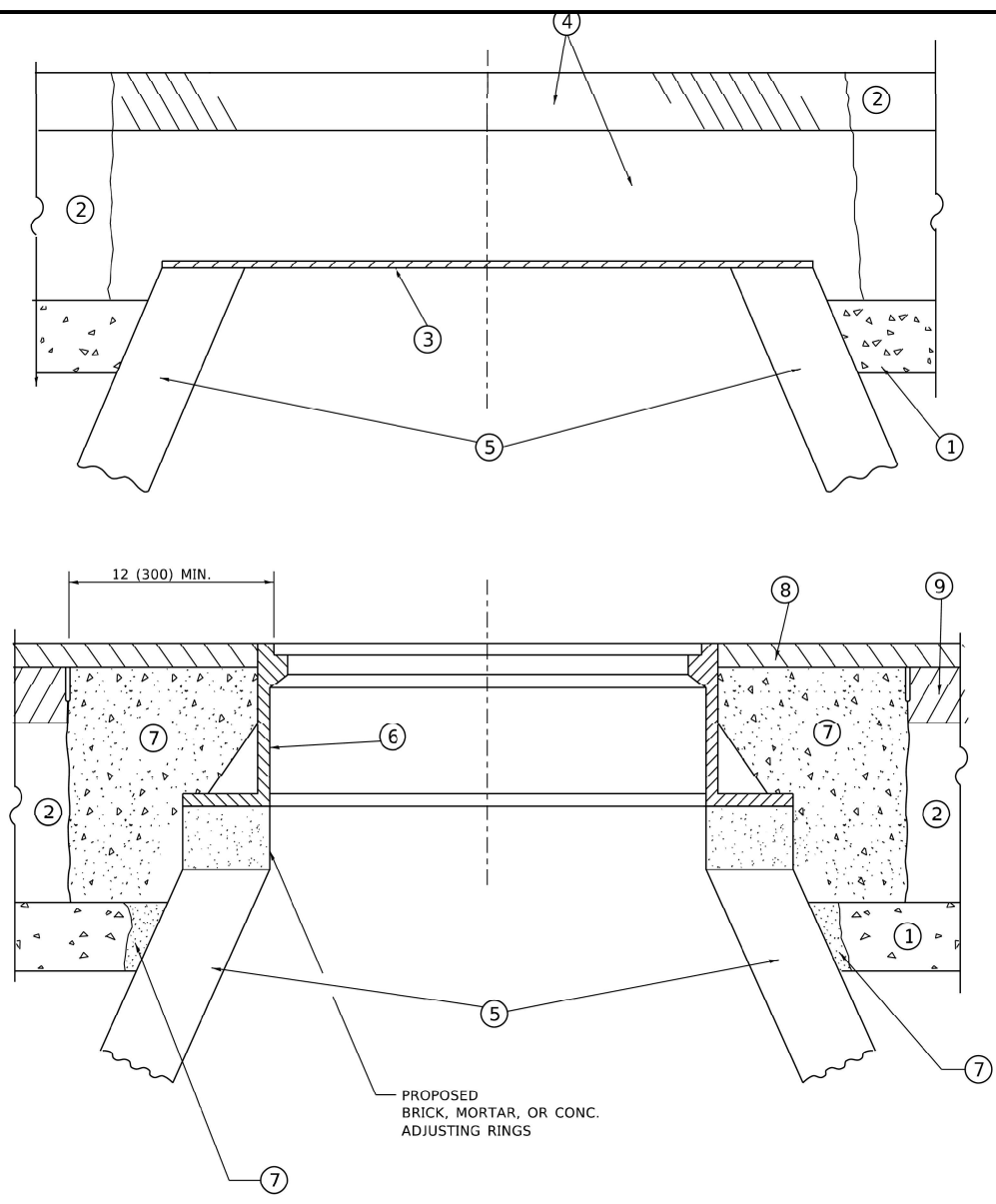
USER NAME = leysa	DESIGNED -	REVISED - C. JUCIUS 02-15-07
	DRAWN -	REVISED -
PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 8/6/2021	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DRIVEWAY ENTRANCE SIGNING

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1694/1408	21-00134-00-RS	COOK	68	65
TC-26			CONTRACT NO. 61K86	
SCALE: NONE			FED. ROAD DIST. NO. 1 ILLINOIS	

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



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

NOTES

1. 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.
2. 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.
3. CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.
4. THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
5. THE CONTRACTOR SHALL REMOVE ALL TRAFFIC CONTROL DEVICES BY THE END OF EACH WORK SHIFT.

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 HMA SURFACE MIX APPROVED BY THE ENGINEER. (MIN. 3 (80) HMA TO REMAIN AFTER MILLING).

- 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-2* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.
- * UNLESS OTHERWISE SPECIFIED IN THE PLANS.

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

LEGEND

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

LOCATION OF STRUCTURES

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT

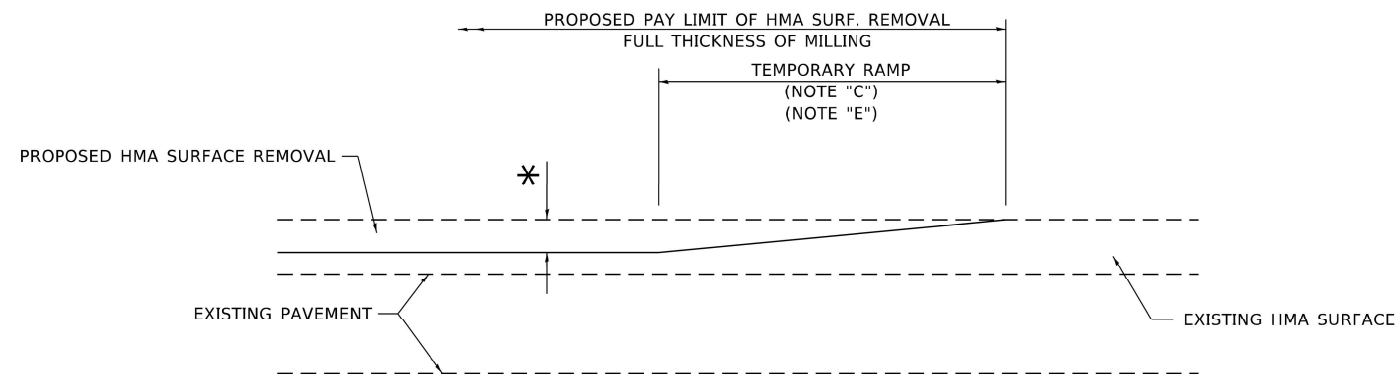
1. REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."
2. THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.
3. NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.
4. WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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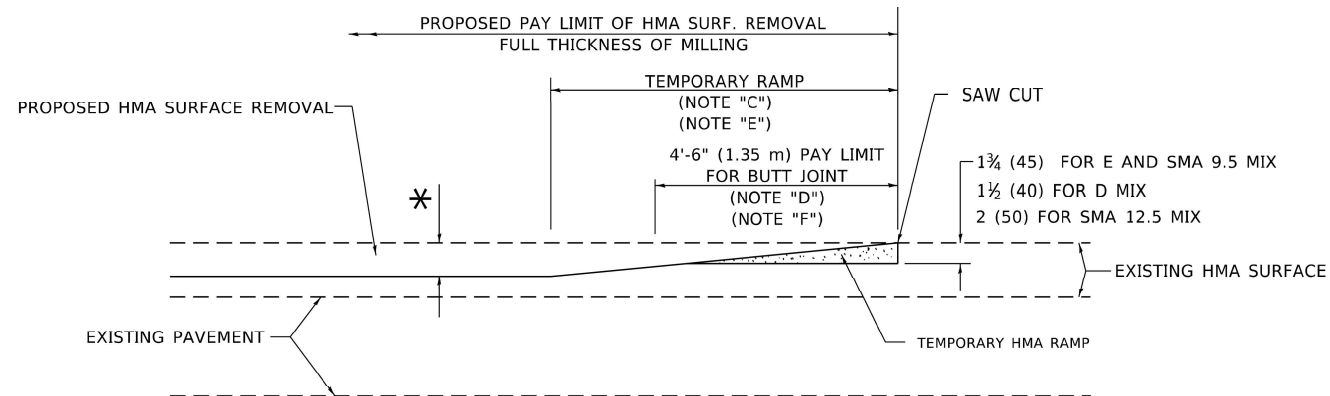
USER NAME = Lawrence.DeManche	DESIGNED - R. SHAH	REVISED - R. BORO 03-09-11	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING		F.A.U. RTE. 1694/1408	SECTION 21-00134-00-RS	COUNTY COOK	TOTAL SHEETS 68	SHEET NO. 66
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - K. SMITH 11-18-22		SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.	BD600-03 (BD-S)		CONTRACT NO. 61K86	
PLOT DATE = 9/13/2023	DATE - 10-23-94	REVISED - K. SMITH 09-15-23				FED. ROAD DIST. NO. 1		ILLINOIS		FED. AID PROJECT
				E.H.E. PROJECT NO. 1252100501						

Drawing file: W:\Projects_by_Village\Brookfield\12521005 - Brookfield And 3700 Block of Grand LAF0\DOT Standard.dwg Nov 08, 2024 - 8:16am



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

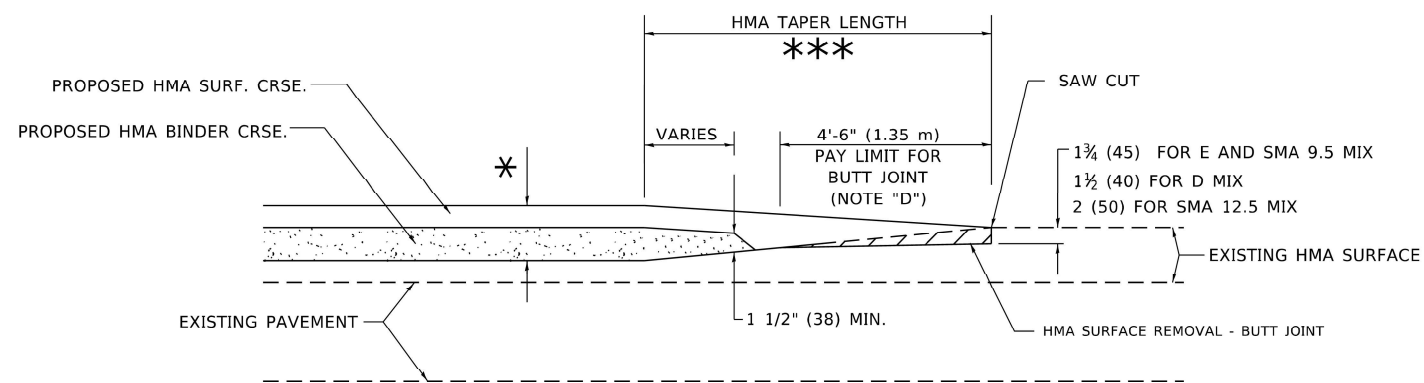
OPTION 1



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

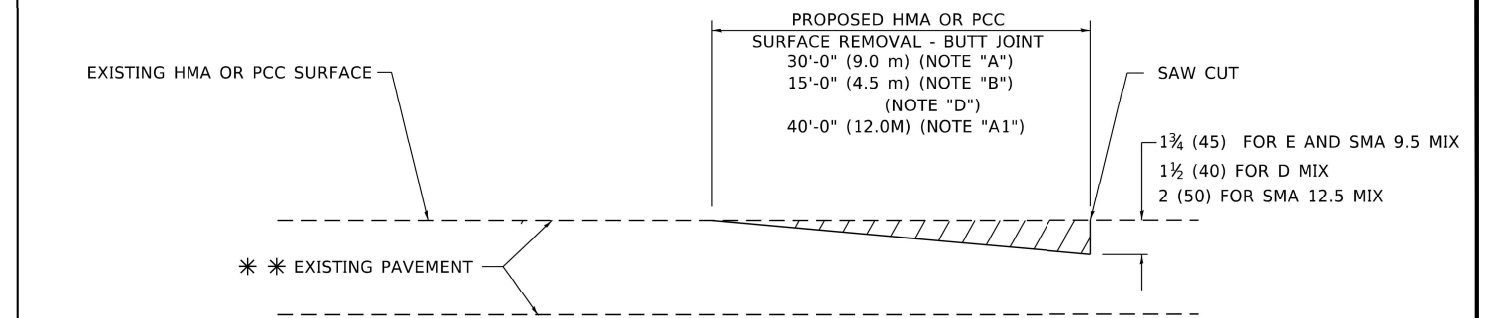
OPTION 2

TYPICAL TEMPORARY RAMP

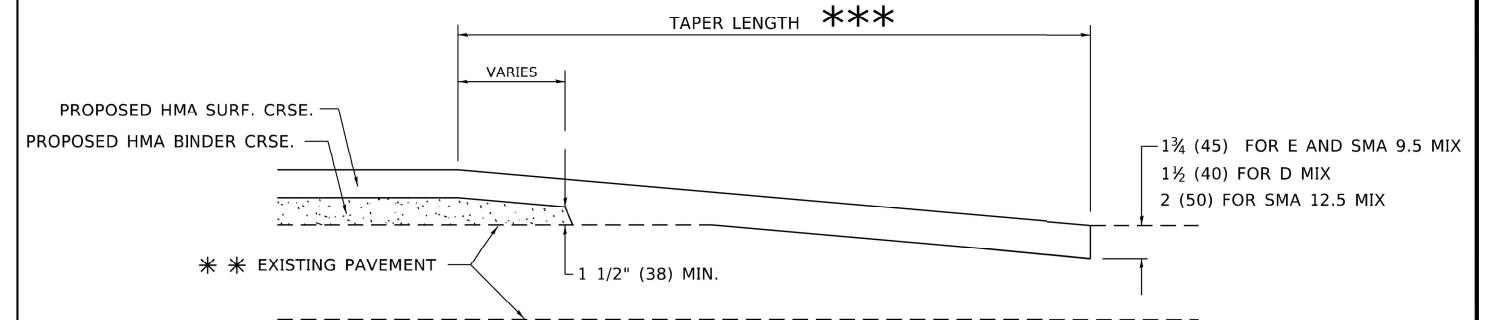


BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

GENERAL NOTES

- A. MAINLINE ARTERIAL ROADWAYS AND MAJOR SIDE ROADS.
- A1. INTERSTATES
- B. MINOR SIDE ROADS.
- C. THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D. THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E. TAPER THE TEMP. RAMP AT A RATE OF 3' - 4" (1.02m) PER 1 INCH (25 mm) OF MILLING THICKNESS.
* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- F. SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
*** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT

- 1. THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".
- 2. THE TEMPORARY RAMP AND SAW CUT SHALL BE INCLUDED IN THE UNIT COST FOR HMA OR PCC SURFACE REMOVAL-BUTT JOINT.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) OTHERWISE SHOWN.

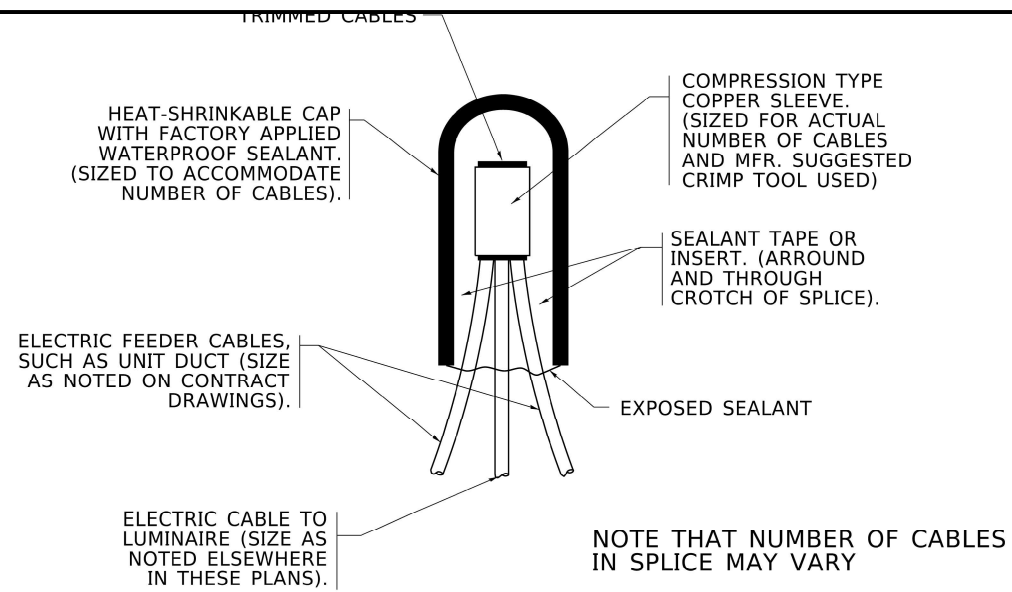
USER NAME = Lawrence.DeManche	DESIGNED - M. DE YONG	REVISED - A. ABBAS 03-21-97
	DRAWN -	REVISED - M. GOMEZ 04-06-01
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - R. BORO 01-01-07
PLOT DATE = 11/18/2022	DATE - 06-13-90	REVISED - K. SMITH 11-18-22

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

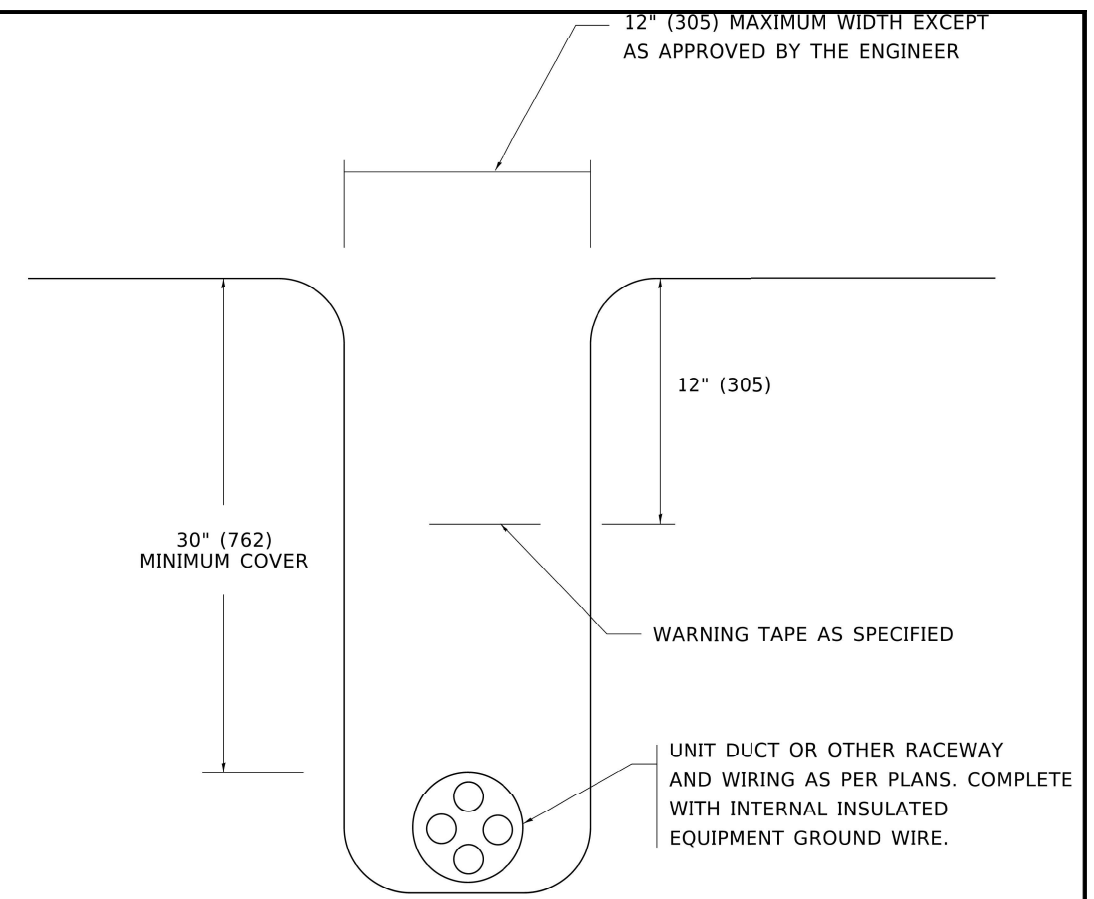
**BUTT JOINT AND
HMA TAPER DETAILS**

F.A.U. RTE. 1694/1408	SECTION 21-00134-00-RS	COUNTY COOK	TOTAL SHEETS 68	SHEET NO. 67
SCALE: NONE		SHEET 1 OF 1 SHEETS		STA. TO STA.
BD400-05 BD32		CONTRACT NO. 61K86		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

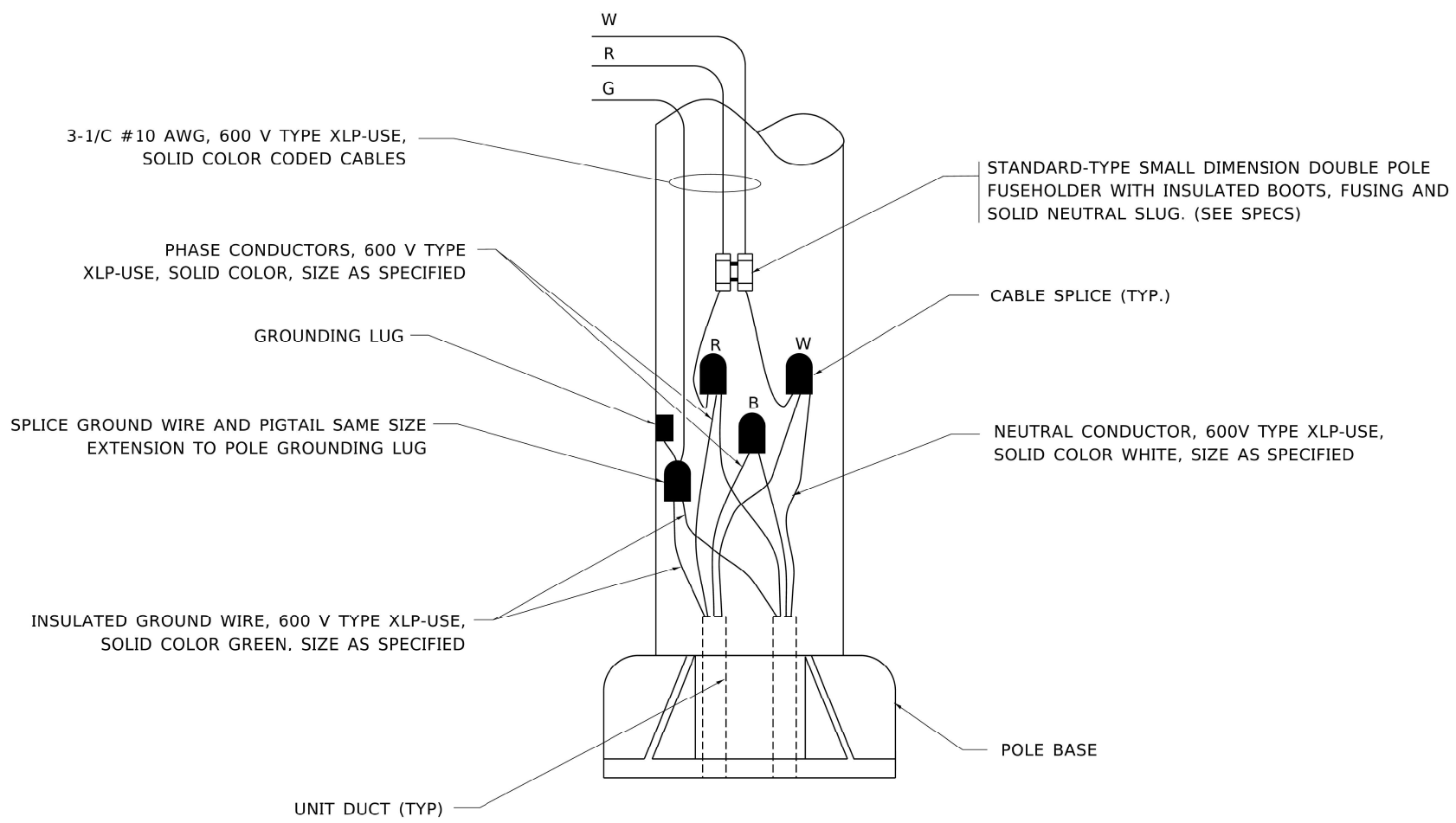
Drawing file: W:\Projects_by_Village\Brookfield\12521005 - Brookfield And 3700 Block of Grand LAF0\DOT Standard.dwg Nov 08, 2024 - 8:16am



TYPICAL SPLICE DETAIL
N.T.S.



TYPICAL WIRING IN TRENCH DETAIL
N.T.S.



POLE WIRING DETAIL
N.T.S.

USER NAME = leysa	DESIGNED -	REVISED - 02/04/2020
	DRAWN -	REVISED -
PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/2/2020	DATE - 08/08/2003	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISC. ELECTRICAL DETAILS
SHEET A

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1694/1408	21-00134-00-RS	COOK	68	68
BE-702		CONTRACT NO. 61K86		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

E.H.E. PROJECT NO. 1252100501