

04-29-2022 LETTING ITEM 123

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

**TRAFFIC DATA:**

ADT:  
47th STREET = 11,500 (2019), 13,400 (2050)  
CENTRAL AVENUE = 2000 (2019), 2330 (2050)

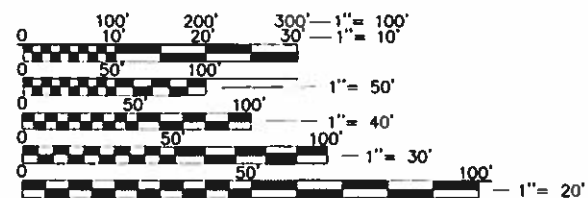
**POSTED SPEED LIMIT:**

47th STREET = 35 MPH  
CENTRAL AVENUE = 25 MPH  
ELM STREET = 25 MPH

**DESIGN DESIGNATION:**

47th STREET = MINOR ARTERIAL  
CENTRAL AVENUE = MINOR COLLECTOR  
ELM STREET = LOCAL ROAD

PROJECT LOCATED IN  
VILLAGE OF WESTERN SPRINGS



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

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

CONTRACT NO.61H47

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

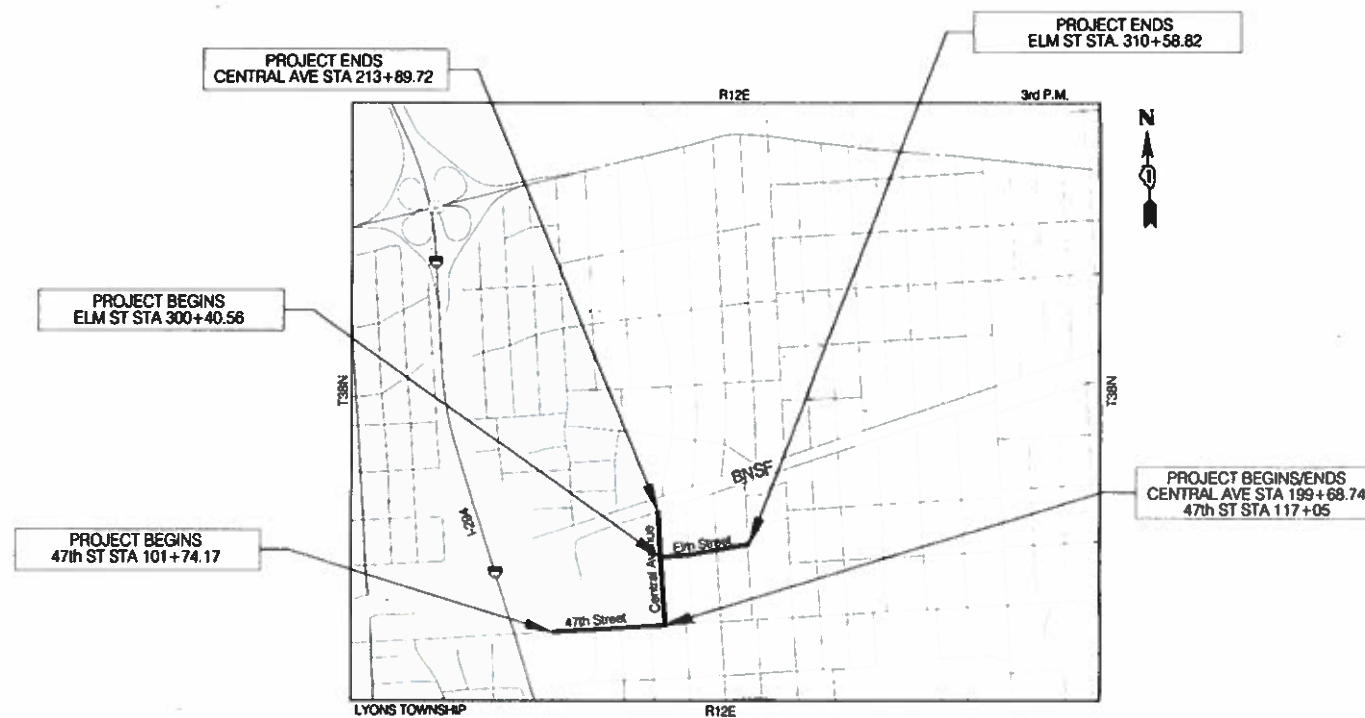
**PLANS FOR PROPOSED  
FEDERAL AID HIGHWAY**

**MUN2003 (CENTRAL AVENUE)  
47th STREET TO BURLINGTON AVENUE  
ELM STREET  
CENTRAL AVENUE TO LAWN AVENUE  
47th STREET  
FLAGG CREEK TO CENTRAL AVENUE  
SECTION: 16-00094-00-PV  
PROJECT: 6RYF(754)  
RECONSTRUCTION  
VILLAGE OF WESTERN SPRINGS  
COOK COUNTY  
C-91-394-16**

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
20-0038	16-00094-00-PV	COOK	88	1
		ILLINOIS	CONTRACT NO.	61H47



LOCATION OF SECTION INDICATED THUS: -



LOCATION MAP  
SCALE: NTS

GROSS & NET LENGTH OF PROJECT = 3833.26 FT. = (0.73 MILES)

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

APPROVED: 01/17/2022

*James J. Benes*  
Village of Western Springs, Village Engineer

PASSED: 2.22 2022

*Chris Fode*  
District 1 Engineer of Local Roads & Streets

Releasing for Bid  
Based on Limited  
Review FEBRUARY 22 2022

*Jose Rios*  
Regional Engineer

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JAMES J. BENES & ASSOCIATES, INC.

JAMES J. BENES & ASSOCIATES  
CONSULTING ENGINEERS  
1011 WARRENVILLE ROAD, SUITE 420  
LISLE, IL 60532  
(630) 719-7570

SIGNATURE: *James J. Benes*  
DATE: 01/17/22  
IL LICENSE NO. 062-071309  
EXP. DATE: NOVEMBER 30, 2023  
FIELD: JAMES J. BENES AND ASSOCIATES, INC.  
CIVIL ENGINEERING

FEDERAL AID PROGRAM ENGINEER: CARMEN E. RAMOS P.E., SCHAUMBURG, IL  
CONSULTANT: JAMES J. BENES AND ASSOCIATES, INC. (630) 719-7570

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GENERAL NOTES

- ACCESS TO LOCAL RESIDENCES AND BUSINESSES SHALL BE MAINTAINED DURING CONSTRUCTION.
- THE CONTRACTOR SHALL GIVE THE MUNICIPALITY THREE (3) WORKING DAYS NOTICE PRIOR TO THE COMMENCEMENT OF WORK.  
(VILLAGE OF WESTERN SPRING ENGINEERING SERVICES, INC: (708)246-1800 EXT.200)
- ALL ELEVATIONS ARE ON U.S.G.S. DATUM.
- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- NEITHER THE ENGINEER, NOR THE OWNER, SHALL ASSUME ANY OF THE RESPONSIBILITIES OF THE CONTRACTOR'S SUPERINTENDENT OR OF SUBCONTRACTORS. ADDITIONALLY, NEITHER THE ENGINEER, NOR THE OWNER, SHALL ADVISE ON, OR ISSUE DIRECTIONS CONCERNING, ASPECTS OF CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR SAFETY PRECAUTIONS AND/OR PROGRAMS IN CONNECTION WITH THE WORK.
- THE LOCATIONS OF PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND THEIR ACCURACY IS NOT GUARANTEED. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND ELEVATION OF ALL UTILITIES. THE CONTRACTOR SHALL REPORT ANY ENCOUNTERED DISCREPANCIES TO THE ENGINEER AT ONCE. THE CONTRACTOR SHALL TAKE DUE CARE IN ALL PHASES OF CONSTRUCTION TO PROTECT ANY UTILITIES WHICH MAY BE AFFECTED BY THE WORK.
- THE CONTRACTOR SHALL KEEP THE CONSTRUCTION AREA FREE OF DEBRIS AND/OR OBJECTIONABLE MATERIALS DURING CONSTRUCTION. THE CONTRACTOR SHALL INSPECT THE SITE DAILY FOR DEBRIS ON THE ROADWAY SURFACE. THE RIGHT-OF-WAY SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITION.
- THE CONTRACTOR SHALL MAINTAIN ALL EXISTING DRAINAGE FACILITIES DURING CONSTRUCTION AND SHALL REPAIR ANY DRAINAGE FACILITIES DAMAGED DURING CONSTRUCTION.
- THE CONTRACTOR SHALL VERIFY THE ELEVATIONS OF EXISTING STORM SEWERS PRIOR TO THE CONSTRUCTION OF PROPOSED STORM SEWER.

GENERAL NOTES

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, GAS, SEWERS AND WATER UTILITIES. (48 HOUR NOTIFICATION IS REQUIRED.)
- THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH ALL UTILITY COMPANIES.
- SAW CUTTING OF PAVEMENT, SHOULDERS, CURB AND GUTTER, ETC. SHALL BE TO FULL DEPTH AND SHALL RESULT IN CLEAN, STRAIGHT EDGE ON THE PORTION REMAINING.
- STATIONING FOR ALL DRAINAGE STRUCTURES ARE GIVEN TO THE CENTER OF THE DRAINAGE STRUCTURE. OFFSETS FOR CURB LINE INLETS AND CATCH BASINS ARE GIVEN TO THE EDGE OF PAVEMENT. OFFSETS FOR ALL OTHER DRAINAGE STRUCTURES ARE GIVEN TO THE CENTER OF THE STRUCTURE. THE CONTRACTOR SHALL TAKE CARE TO ENSURE THAT ALL CURB LINE DRAINAGE STRUCTURES ARE PROPERLY ALIGNED WITH THE PROPOSED CURB AND GUTTER.
- TRANSVERSE PAVEMENT JOINTS SHALL BE SPACED AT A MAXIMUM OF 12 FEET.
- ALL STRUCTURE (MANHOLE, CATCH BASIN AND INLET) CONNECTIONS SHALL MEET THE REQUIREMENTS FOR FLEXIBLE WATER TIGHT CONNECTIONS PER ASTM C923.
- WHEREVER IN THE PLANS OR SPECIFICATIONS THE TERM "STANDARD SPECIFICATIONS" IS USED IT SHALL BE UNDERSTOOD BY THE CONTRACTOR TO MEAN THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AND ADDITIONAL "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" AS PREPARED BY THE DEPARTMENT OF TRANSPORTATION OF THE STATE OF ILLINOIS AND ADOPTED ON JANUARY 1, 2022.
- WHEREVER IN THE PLANS OR SPECIFICATIONS THE TERM "STANDARD SPECIFICATIONS FOR WATER MAIN AND SEWER CONSTRUCTION" IS USED IT SHALL BE UNDERSTOOD BY THE CONTRACTOR TO MEAN THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" AS PREPARED BY I.S.P.E., A.G.C.I., I.M.L., AND U.C.A., ADOPTED 8TH EDITION, 2020.
- ALL TRENCHES AND EXCAVATIONS FOR DRAINAGE PIPES, WATER MAINS, SANITARY SEWERS, STRUCTURES, OR STRUCTURE REMOVALS BELOW OR WITHIN TWO FEET LATERALLY OF THE PROPOSED PAVEMENT, DRIVEWAY PAVEMENT, SIDEWALK OR CURB AND GUTTER SHALL BE BACKFILLED WITH TRENCH BACKFILL MATERIAL AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH SECTION 208 OF THE STANDARD SPECIFICATIONS.
- WHERE PROPOSED STORM SEWERS ARE TO BE CONNECTED INTO EXISTING MANHOLES OR EXISTING STORM SEWERS THE CONNECTIONS SHALL BE MADE IN A WORKMANLIKE MANNER AND MASONRY CONSTRUCTED AROUND THEM SO AS TO PREVENT LEAKAGE. CONNECTIONS OF STORM SEWERS TO EXISTING STRUCTURES SHALL BE MADE BY CORE DRILLING HOLES IN THE STRUCTURES. THE COST OF MAKING ANY SEWER CONNECTIONS TO AN EXISTING DRAINAGE STRUCTURE OR PIPE SHALL BE CONSIDERED INCLUDED WITHIN THE CONTRACT UNIT PRICE FOR THE NEW SEWER.
- FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.
- MECHANIZED CLEARING OF VEGETATION IN THE UTILITY CORRIDOR MUST BE CONDUCTED NO MORE THAN 7 CALENDAR DAYS PRECEDING INSTALLATION OF THE UTILITY LINE IN THAT SEGMENT OF THE CORRIDOR. VEGETATION MAY NOT BE CLEARED ALONG THE ENTIRE CORRIDOR PRIOR TO INSTALLATION OF THE UTILITY LINE.
- ALL DISTURBED AREAS OF THE PROJECT MUST BE STABILIZED (E.G. BLANKETED AND SEEDED) IMMEDIATELY UPON COMPLETION OF CONSTRUCTION ACTIVITIES IN ANY ONE SEGMENT OF THE PROJECT. IN NO CASE MAY SOIL STABILIZATION BE DELAYED UNTIL THE PROJECT IS COMPLETE.
- TREES LOCATED ALONG THE PARKWAY (ROW) ARE VILLAGE OWNED TREES. IF QUESTIONS DEVELOP DURING CONSTRUCTION REGARDING VILLAGE TREES, CONTACT VILLAGE'S FORRESTER WIL BERESHEIM AT 708-246-1800, EXT. 213 OR EMAIL AT WBERESHEIM@WSPRINGS.COM. THE CONTRACTOR MUST NOT STORE ANY EQUIPMENT, EXCAVATIONS OR MATERIALS WITHIN THE DRIP LINE OF PARKWAY TREES.
- THE CONTRACTOR SHALL NOTIFY ALL IMPACTED RESIDENTS MORE THAN 48 HOURS PRIOR TO THE COMMENCING OF ANY WORK TO PROVIDE CONTACT INFORMATION, PROJECT SCOPE, MEANS OF ACCESS TO PRIVATE PROPERTY EASEMENTS, APPROXIMATE CONSTRUCTION SCHEDULE AND SERVICE OUTAGE DETAILS (IF ANY).
- NO STORAGE OF MATERIALS IS ALLOWED ON ROADWAYS OR SIDEWALKS UNLESS PERMISSION IS GRANTED FROM THE VILLAGE'S PUBLIC WORKS DEPARTMENT. NO OVERNIGHT PARKING OF EQUIPMENT WITHIN THE PUBLIC RIGHT-OF-WAY IS ALLOWED.
- CONTRACTOR SHALL TAKE PRECAUTION BY PRESERVING EXISTING TREES WITHIN THE RIGHT OF WAY. IF ANY DAMAGE OCCURS, TREES SHALL BE REPLACED IN KIND PER ARTICLE 201.07 REPAIR OR REPLACEMENT OF EXISTING PLANT MATERIAL REQUIREMENTS STATED HEREIN.
- BACKFILLING STORM SEWER CONSTRUCTED UNDER THE ROAD WAY SPECIFIED UNDER ART.550.07(B,C) OF THE SSRBC WILL NOT BE ALLOWED.
- THE CONTRACTOR SHALL CONTACT KALPANA KANNAN-HOSADURGA, THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR, AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

COMMITMENTS

- NO IN STREAM WORK IS ALLOWED FROM APRIL 15 TO JUNE 15 OF ANY CONSTRUCTION YEAR TO AVOID IOWA (IA) DARTER SPAWNING TIME.
- WETLAND MITIGATION FOR WETLAND SITE 1 SHALL BE PERFORMED ON-SITE VIA REGRADING AND SEEDING WITH A WETLAND SLOPE MIXTURE.
- TREES WILL BE REPLACED IN ISTHA ROW PER ISTHA (IDOT POLICY D & E-18).
- TREES WILL BE REPLACED IN WESTERN SPRINGS ROW IN ACCORDANCE WITH VILLAGE OF WESTERN SPRINGS TREE REPLACEMENT POLICY.
- PROPOSED SEWER OUTLET TO FLAGG CREEK WILL INCORPORATE REQUIREMENTS OF IDNR/IOWR REGIONAL PERMIT NO. 3.
- CONTINUE COORDINATION WITH ISTHA REGARDING REQUIRED PERMANENT EASEMENT ON SOUTH SIDE OF 47<sup>th</sup> STREET FOR PROPOSED OUTLET TO FLAGG CREEK.
- FENCE PROTECTION MUST BE PROVIDED AROUND THE STORM SEWER CONSTRUCTION AREA ADJACENT TO SPRING ROCK PARK TO PROTECT THE PUBLIC FROM VERY DEEP TRENCHES.
- CONTINUE COORDINATION WITH PACE ABOUT BUS ROUTE 669 RE-ROUTE DURING CENTRAL AVENUE CONSTRUCTION.
- PUBLIC INFORMATION WILL BE COMMUNICATED TO THE PUBLIC AT THE BEGINNING OF WORK.
- THREE EXISTING LIGHTS ON COMED POLES ON WEST SIDE OF CENTRAL AVENUE TO BE MAINTAINED ON RELOCATED POLES.

LIST OF STATE STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-10	PAVEMENT JOINT (EXCEPT KEYWAY JOINT DETAIL)
420101-07	24' JOINTED PCC PAVEMENT
420106-07	36' JOINTED PCC PAVEMENT
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
542601-03	REINFORCED CONCRETE PIPEELBOW 24" 30" OR 36" (600 mm, 750 mm or 900 mm)
542606-02	REINFORCED CONCRETE PIPE TEE
602001-02	CATCH BASIN TYPE A
602011-02	CATCH BASIN TY C
602301-04	INLET TYPE A
602401-07	PRECAST MANHOLE TYPE A 4' (1.22 m) DIAMETER
602402-03	PRECAST MANHOLE TYPE A 5' (1.22 m) DIAMETER
602406-11	PRECAST MANHOLE TYPE A 6' (1.22 m) DIAMETER
602411-09	PRECAST MANHOLE TYPE A 7' (1.22 m) DIAMETER
602416-09	PRECAST MANHOLE TYPE A 8' (1.22 m) DIAMETER
602421-09	PRECAST MANHOLE TYPE A 9' (1.22 m) DIAMETER
602601-06	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-05	FRAME AND LIDS TYPE 1
604006-05	FRAME AND GRATE TYPE 3
604001-05	FRAME AND GRATE TYPE 3V
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
667101-02	PERMANENT SURVEY MARKERS
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600MM) FROM PAVEMENT EDGE
701101-05	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5m) AWAY
701106-02	OFF-RD OPERATIONS, 2L 2W, 15' (4.5m) TO 24" (600mm)
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≤ 40 MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
876001-04	PEDESTRIAN PUSH BUTTON POST

DISTRICT ONE STANDARDS

BD-07	DETAIL OF STORM SEWER CONNETION TO EXISTING SEWER
BD-22	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
BD-24	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
BD-32	BUTT JOINTS AND HMA TAPER
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC-22	ARTERIAL ROAD INFORMATION SIGN
TS-05	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS

PLAN	DATE	BY
	DATE	BY
NOTE BOOK NO.	DATE	BY
	DATE	BY
SUBMITTED	DATE	BY
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Tel. (630) 719-7570 • Fax (630) 719-7589

DESIGNED -- LAK	REVISED --
DRAWN -- SMP	REVISED --
CHECKED -- JCZ	REVISED --
DATE -- 02/14/2022	REVISED --

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, HIGHWAY STANDARDS,  
GENERAL NOTES AND COMMITMENTS**

SCALE: N/A SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. TO STA.

F.A.U. RTE. MUN 2003A	SECTION 16-00094-00-PV	COUNTY COOK	TOTAL SHEETS 88	SHEET NO. 2
CONTRACT NO. 61H47			ILLINOIS FED. AID PROJECT	



**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 WESTERN SPRINGS 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).
- THE VILLAGE OF WESTERN SPRINGS 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.L.E. AT 1-800-892-0123.

**C. GENERAL NOTES**

- ALL ELEVATIONS ARE ON NAVD 88.
- 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 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.



TECHNICAL GUIDANCE MANUAL  
MWRD GENERAL NOTES

07/12/2016

STD. DWG. NO.18

PAGE NO. 19

**JJB**  
 JAMES J. BENES & ASSOCIATES, INC.  
 1011 Warrenville Road, Suite 420, Lisle, Illinois 60532  
 Tel. (630) 719-7570 • Fax (630) 719-7589

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

MWRD GENERAL NOTES

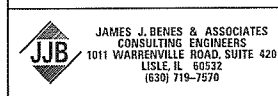
SCALE: NTS SHEET NO. OF SHEETS STA. - TO STA. -

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MUN 2003A	16-00094-00-PV	COOK	88	3
CONTRACT NO. 61H47				
ILLINOIS FED. AID PROJECT				

\* - DENOTES SPECIALTY ITEMS

△ - 0042 COST CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODES	
				ROADWAY	UTILITIES
				80% FED 20% WESTERN SPRINGS 0004	100% WESTERN SPRINGS 0043
* 20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	693	693	0
* 20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	131	131	0
20101000	TEMPORARY FENCE	FOOT	500	500	0
* 20101200	TREE ROOT PRUNING	EACH	49	49	0
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	3,313	3,048	265
20400800	FURNISHED EXCAVATION	CU YD	281	281	0
20800150	TRENCH BACKFILL	CU YD	3,175	553	2,622
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SO YD	2,933	2,933	0
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	9,272	9,272	0
25000200	SEEDING, CLASS 2	ACRE	1.2	1.2	0
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	180	180	0
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	180	180	0
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	180	180	0
25100630	EROSION CONTROL BLANKET	SO YD	5,530	5,530	0
25200110	SODDING, SALT TOLERANT	SO YD	3,742	3,665	77
25200200	SUPPLEMENTAL WATERING	UNIT	80	78	2
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	120	120	0
28000400	PERIMETER EROSION BARRIER	FOOT	5,700	5,700	0
28000510	INLET FILTERS	EACH	42	41	1



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE: N/A	SHEET NO.	OF SHEETS	STA. TO STA.

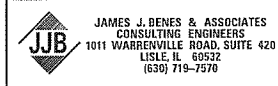
F.A.U. RTE. PROJ. 2003A	SECTION 16-00094-00-PV	COUNTY COOK	TOTAL SHEETS 88	SHEET NO. 4
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H47	



\* - DENOTES SPECIALTY ITEMS

△ - 0042 COST CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODES	
				ROADWAY	UTILITIES
				80% FED 20% WESTERN SPRINGS 0004	100% WESTERN SPRINGS 0043
2810010*	STONE RIPRAP, CLASS A4	SA YD	36	36	
28200200	FILTER FABRIC	SO YD	36	36	0
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	978	978	0
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SO YD	5,879	5,879	0
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	472	472	0
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	2,965	209	2,756
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	595	53	542
40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	145	12	133
42000300	PORTLAND CEMENT CONCRETE PAVEMENT 8"	SO YD	4,770	4,770	0
42001300	PROTECTIVE COAT	SO YD	6,435	6,382	53
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SO YD	460	460	0
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	2,974	2,974	0
42400800	DETECTABLE WARNINGS	SO FT	106	106	0
44000100	PAVEMENT REMOVAL	SO YD	4,865	4,865	0
44000200	DRIVEWAY PAVEMENT REMOVAL	SO YD	430	430	0
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	3,057	2,806	251
44000600	SIDEWALK REMOVAL	SO FT	2,101	2,101	0
44201717	CLASS D PATCHES, TYPE II, 6 INCH	SO YD	13	13	0
44201723	CLASS D PATCHES, TYPE IV, 6 INCH	SO YD	1,284	93	1,191
52200020	TEMPORARY SOIL RETENTION SYSTEM	SO FT	3,780	3,780	0



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

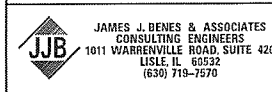
SUMMARY OF QUANTITIES			
SCALE: N/A	SHEET NO.	OF	SHEETS

F.A.J. RTE. ILL. MON. 2003A	SECTION 16-00094-00-PV	COUNTY COOK	TOTAL SHEETS 88	SHEET NO. 5
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H47	

\* - DENOTES SPECIALTY ITEMS

△ - 0042 COST CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODES	
				ROADWAY	UTILITIES
				80% FED 20% WESTERN SPRINGS 0004	100% WESTERN SPRINGS 0043
54010803	PRECAST CONCRETE BOX CULVERTS 8' X 3'	FOOT	65	48	17
54210204	PIPE ELBOW, 66"	EACH	1	1	0
54213711	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 66"	EACH	1	1	0
54216231	REINFORCED CONCRETE PIPE TEE, 42" PIPE WITH 12" RISER	EACH	1	1	0
54216242	REINFORCED CONCRETE PIPE TEE, 48" PIPE WITH 12" RISER	EACH	1	1	0
54216264	REINFORCED CONCRETE PIPE TEE, 60" PIPE WITH 12" RISER	EACH	1	1	0
54217755	REINFORCED CONCRETE PIPE TEE, 66" PIPE WITH 24" RISER	EACH	1	1	0
54248510	CONCRETE COLLAR	CU YD	20	20	0
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	84	66	18
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	432	326	106
550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	8	8	0
550A0450	STORM SEWERS, CLASS A, TYPE 2 36"	FOOT	354	0	354
550A0470	STORM SEWERS, CLASS A, TYPE 2 42"	FOOT	543	132	411
550A0480	STORM SEWERS, CLASS A, TYPE 2 48"	FOOT	350	285	65
550A0490	STORM SEWERS, CLASS A, TYPE 2 54"	FOOT	88	62	26
550A0500	STORM SEWERS, CLASS A, TYPE 2 60"	FOOT	156	104	52
550A0510	STORM SEWERS, CLASS A, TYPE 2 66"	FOOT	672	537	135
550A0640	STORM SEWERS, CLASS A, TYPE 3 12"	FOOT	8	8	0
550A0750	STORM SEWERS, CLASS A, TYPE 3 36"	FOOT	363	0	363



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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: N/A SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE. MUN 2003A	SECTION 16-00094-00-PV	COUNTY COOK	TOTAL SHEETS 88	SHEET NO. 6
CONTRACT NO. 61H47			[ILLINOIS] FED. AID PROJECT	

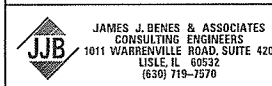


\* - DENOTES SPECIALTY ITEMS

△ - 0042 COST CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODES	
				ROADWAY	UTILITIES
				80% FED 20% WESTERN SPRINGS 0004	100% WESTERN SPRINGS 0043
550A1110	STORM SEWERS, CLASS A, TYPE 4 66"	FOOT	667	534	133
550A1380	STORM SEWERS, CLASS A, TYPE 5 66"	FOOT	26	21	5
550B0050	STORM SEWERS, CLASS B, TYPE 1 12"	FOOT	4	0	4
550B0410	STORM SEWERS, CLASS B, TYPE 2 24"	FOOT	4	0	4
55100300	STORM SEWER REMOVAL 8"	FOOT	223	128	95
55100500	STORM SEWER REMOVAL 12"	FOOT	62	16	46
55101200	STORM SEWER REMOVAL 24"	FOOT	4	0	4
55201900	STORM SEWERS JACKED IN PLACE, 66"	FOOT	90	72	18
56106400	ADJUSTING WATER MAIN 8"	FOOT	100	100	0
56300300	ADJUSTING WATER SERVICE LINES	FOOT	100	100	0
* 56400500	FIRE HYDRANTS TO BE REMOVED	EACH	3	3	0
56400820	FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX	EACH	3	3	0
56500600	DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED	EACH	23	23	0
60200305	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 3 FRAME AND GRATE	EACH	2	2	0
60200310	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 3V FRAME AND GRATE	EACH	12	8	4
60207115	CATCH BASINS, TYPE C, TYPE 3V FRAME AND GRATE	EACH	8	8	0
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	2	0
60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3	0	3
60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	5	0	5

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

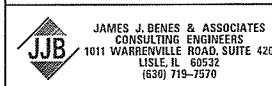
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F.A.U. RTE. MUN 2003A	SECTION 16-00094-00-PV	COUNTY COOK	TOTAL SHEETS 88	SHEET NO. 7
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H47	

\* - DENOTES SPECIALTY ITEMS

△ - 0042 COST CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODES	
				ROADWAY	UTILITIES
				80% FED 20% WESTERN SPRINGS 0004	100% WESTERN SPRINGS 0043
60224446	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1	0
60224459	MANHOLES, TYPE A, 8'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	2	0
60224469	MANHOLES, TYPE A, 9'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	2	0
60235700	INLETS, TYPE A, TYPE 3 FRAME AND GRATE	EACH	2	2	0
60250200	CATCH BASINS TO BE ADJUSTED	EACH	3	2	1
60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	6	0	6
60253200	CATCH BASINS TO BE RECONSTRUCTED WITH NEW TYPE 3 FRAME AND GRATE	EACH	1	0	1
60255500	MANHOLES TO BE ADJUSTED	EACH	3	3	0
60265700	VALVE VAULTS TO BE ADJUSTED	EACH	2	2	0
60266600	VALVE BOXES TO BE ADJUSTED	EACH	3	3	0
60500040	REMOVING MANHOLES	EACH	7	5	2
60500050	REMOVING CATCH BASINS	EACH	4	2	2
60500105	FILLING MANHOLES	EACH	2	1	1
60600605	CONCRETE CURB, TYPE B	FOOT	10	10	0
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	415	154	261
60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	2,730	2,730	0
66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1	0
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1	0
66901006	REGULATED SUBSTANCES MONITORING	CAL DA	60	60	0



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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N/A SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE. MUN 2003A	SECTION 16-00094-00-PV	COUNTY COOK	TOTAL SHEETS 88	SHEET NO. 8
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H47	

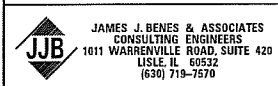


\* - DENOTES SPECIALTY ITEMS

△ - 0042 COST CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODES	
				ROADWAY	UTILITIES
				80% FED 20% WESTERN SPRINGS 0004	100% WESTERN SPRINGS 0043
67100100	MOBILIZATION	L SUM	1	1	0
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	60	60	0
70307210	TEMPORARY PAVEMENT MARKING - LINE 24"- TYPE IV TAPE	FOOT	17	17	0
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	210	18	192
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	51	0	51
78001150	PAINT PAVEMENT MARKING - LINE 12"	FOOT	264	264	0
78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	60	60	0
78300201	PAVEMENT MARKING REMOVAL - GRINDING	SO FT	294	0	294
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	8	8	0
85000 <sup>200</sup>	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	1	0
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	113	113	0
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	120	120	0
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	21	21	0
87900200	DRILL EXISTING HANDHOLE	EACH	1	1	0
89501250	RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1	1	0
89502200	MODIFY EXISTING CONTROLLER	EACH	1	1	0
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	1	1	0
Z0013797	STABILIZED CONSTRUCTION ENTRANCE	SO YD	77	77	0
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	0

\*



USER NAME = *USER*	DESIGNED - JY	REVISED -
PLLOT SCALE = *SCALE*	DRAWN - JY, GH	REVISED -
PLLOT DATE = *DATE*	CHECKED - JCZ	REVISED -
	DATE - 10/11/2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

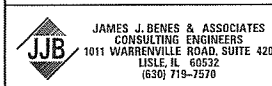
SUMMARY OF QUANTITIES			
SCALE: N/A	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.U. RTE. MUN 2003A	SECTION 16-00094-00-PV	COUNTY COOK	TOTAL SHEETS 88	SHEET NO. 9
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H47	

\* - DENOTES SPECIALTY ITEMS

△ - 0042 COST CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODES	
				ROADWAY	UTILITIES
				80% FED 20% WESTERN SPRINGS 0004	100% WESTERN SPRINGS 0043
Z0019600	DUST CONTROL WATERING	UNIT	30	25	5
Z0028415	GEOTECHNICAL REINFORCEMENT	SO YD	293	293	0
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	154	154	0
* Z0033044	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1	1	0
Z0042300	PORTLAND CEMENT CONCRETE SIDEWALK CURB	FOOT	64	64	0
Z0055905	TEMPORARY CONSTRUCTION FENCE	FOOT	2,610	2,610	0
Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	FOOT	398	255	143
Z0056610	STORM SEWER (WATER MAIN REQUIREMENTS) 15 INCH	FOOT	32	32	0
* Z0056900	SANITARY SEWER 8"	FOOT	68	30	38
* Z0057000	SANITARY SEWER 10"	FOOT	10	10	0
* Z0057100	SANITARY SEWER 12"	FOOT	231	231	0
* Z0057200	SANITARY SEWER 15"	FOOT	20	0	20
* Z0057300	SANITARY SEWER 18"	FOOT	23	0	23
Z0064200	SELECTIVE CLEARING	UNIT	12	12	0
△ Z0076600	TRAINEES	HOUR	500	500	0
△ Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500	500	0
* A2000114	TREE, ACER X FREEMANII AUTUMN BLAZE (AUTUMN BLAZE FREEMAN MAPLE), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	16	16	0
* A2002912	TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 1-1/2" CALIPER, BALLED AND BURLAPPED	EACH	9	9	0
* A2006712	TREE, QUERCUS MACROCARPA (BUR OAK), 1-1/2" CALIPER, BALLED AND BURLAPPED	EACH	12	12	0



USER NAME = *USER*	DESIGNED - JY	REVISED -
	DRAWN - JY, GH	REVISED -
PLOT SCALE = *SCALE*	CHECKED - JCZ	REVISED -
PLOT DATE = *DATE*	DATE - 10/11/2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

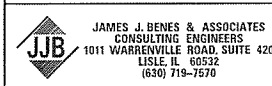
SUMMARY OF QUANTITIES			
SCALE: N/A	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.U. RTE. MUN 2003A	SECTION 16-00094-00-PV	COUNTY COOK	TOTAL SHEETS 88	SHEET NO. 10
ILLINOIS FED. AID PROJECT CONTRACT NO. 61H47				

\* - DENOTES SPECIALTY ITEMS

△ - 0042 COST CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODES	
				ROADWAY	UTILITIES
				80% FED 20% WESTERN SPRINGS 0004	100% WESTERN SPRINGS 0043
A2007014	TREE, QUERCUS ROBUR FASTIGIATA (FASTIGIATE ENGLISH OAK), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	15	15	0
A2008014	TREE, TILIA CORDATA (LITTLE LEAF LINDEN), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	12	12	0
B2000112	TREE, ACER CAMPESTRE (HEDGE MAPLE), 1-1/2" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	9	9	0
B2006214	TREE, SYRINGA RETICULATA (JAPANESE TREE LILAC), 1-3/4" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	13	13	0
X0323677	STREET SWEEPING	HOUR	60	60	0
* X0323814	SANITARY SEWER REMOVAL, 18"	FOOT	23	0	23
X0327611	REMOVE AND REINSTALL BRICK PAVER	SQ FT	120	120	0
* X0327614	COMBINED SEWER REMOVAL 12"	FOOT	12	0	12
* X0487700	SANITARY SEWER REMOVAL 10"	FOOT	10	10	0
* X0487800	SANITARY SEWER REMOVAL 12"	FOOT	226	226	0
* X0487850	SANITARY SEWER REMOVAL 15"	FOOT	20	0	20
* X0840000	SANITARY SEWER REMOVAL 8"	FOOT	68	30	38
* X1200016	SANITARY SERVICE REPLACEMENT	EACH	25	25	0
X1200087	JUNCTION CHAMBER NO. 1	EACH	1	1	0
X1200214	JUNCTION CHAMBER NO. 2	EACH	1	1	0
X1200254	JUNCTION CHAMBER NO. 3	EACH	2	2	0
* X1200255	STEEL CASING PIPE AUGERED AND JACKED, 84"	FOOT	90	90	0
* X1400201	RADAR VEHICLE DETECTION SYSTEM, SINGLE APPROACH, STOP BAR	EACH	1	1	0
* X1400367	PEDESTRIAN SIGNAL POST, 10 FT.	EACH	1	1	0



USER NAME = \*USER\*  
 PLOT SCALE = \*SCALE\*  
 PLOT DATE = \*DATE\*

DESIGNED - JY  
 DRAWN - JY, GH  
 CHECKED - JCZ  
 DATE - 10/11/2021

REVISED -  
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

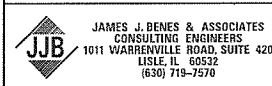
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F.A.U. RTE. MUN 2003A	SECTION 16-00094-00-PV	COUNTY COOK	TOTAL SHEETS 88	SHEET NO. 11
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H47	

\* - DENOTES SPECIALTY ITEMS

△ - 0042 COST CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODES	
				ROADWAY	UTILITIES
				80% FED 20% WESTERN SPRINGS 0004	100% WESTERN SPRINGS 0043
* X1400423	REMOVE EXISTING PEDESTRIAN PUSH BUTTON	EACH	4	4	0
X4024100	TEMPORARY ACCESS (WINTERIZE)	SO YD	912	912	0
* X6022810	MANHOLES, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	5	4	1
* X6026056	SANITARY MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	1	1	0
* X6026057	SANITARY MANHOLES TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	1	0	1
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	0
* X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4	4	0
* X8780012	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	4	4	0
XX003338	TEST HOLE	EACH	35	35	0
* XX008190	COMBINED SEWER REMOVAL AND REPLACEMENT	FOOT	25	25	0



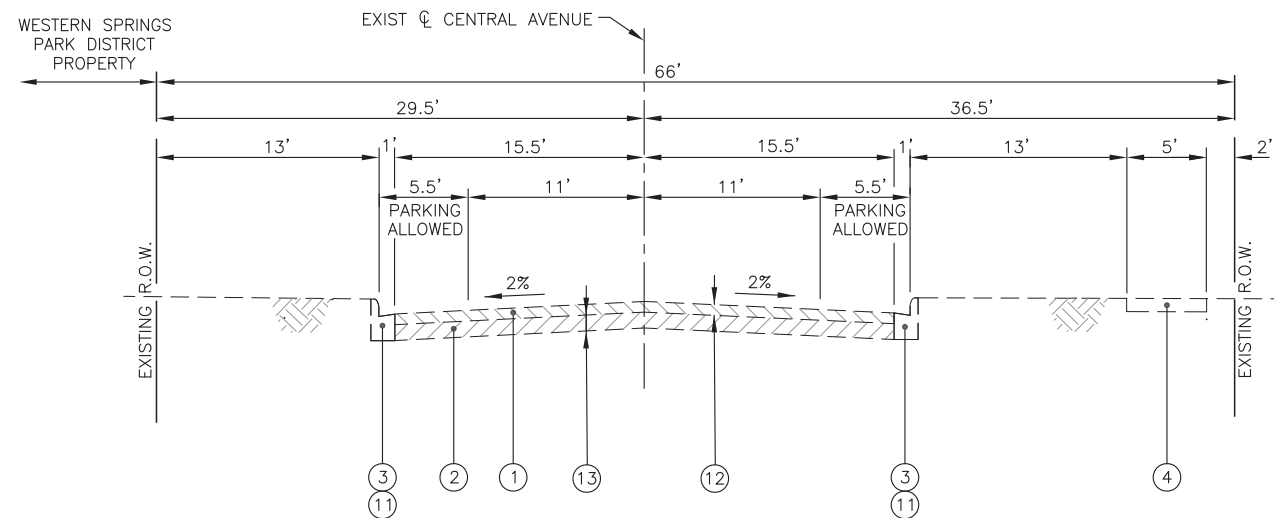
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	DRAWN - JY, GH	REVISED -
PLOT SCALE = *SCALE*	CHECKED - JCZ	REVISED -
PLOT DATE = *DATE*	DATE - 10/11/2021	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

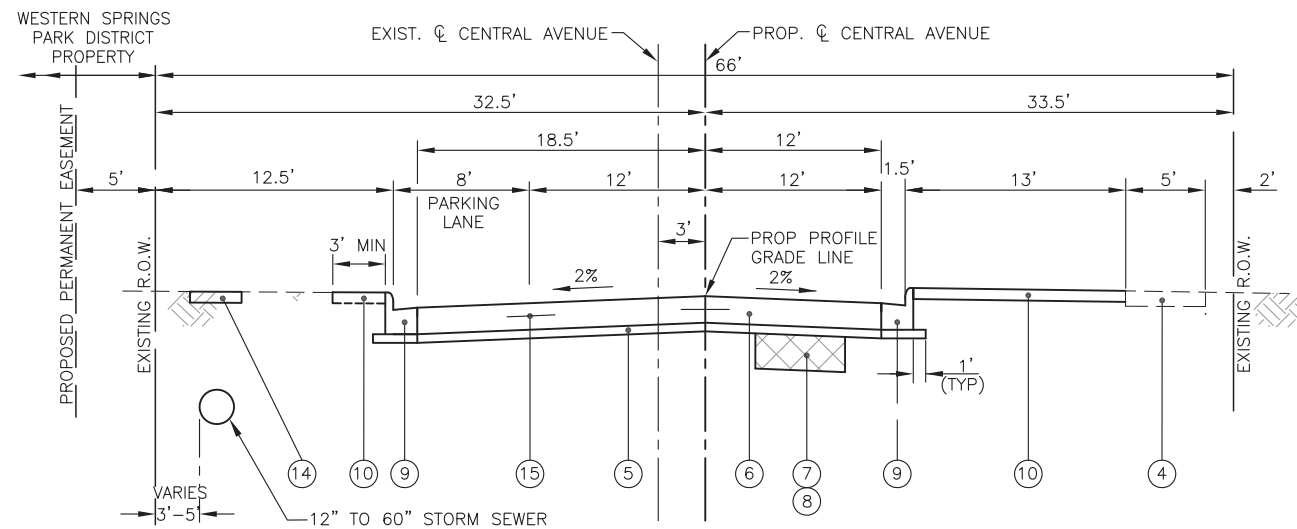
SUMMARY OF QUANTITIES

SCALE: N/A SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE. MUN 2003A	SECTION 16-00094-00-PV	COUNTY COOK	TOTAL SHEETS 88	SHEET NO. 12
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H47	



**EXISTING TYPICAL SECTION - CENTRAL AVENUE**  
STA. 200+21 TO STA. 213+90



**PROPOSED TYPICAL SECTION - CENTRAL AVENUE**  
STA. 204+97 TO STA. 213+90

LEGEND

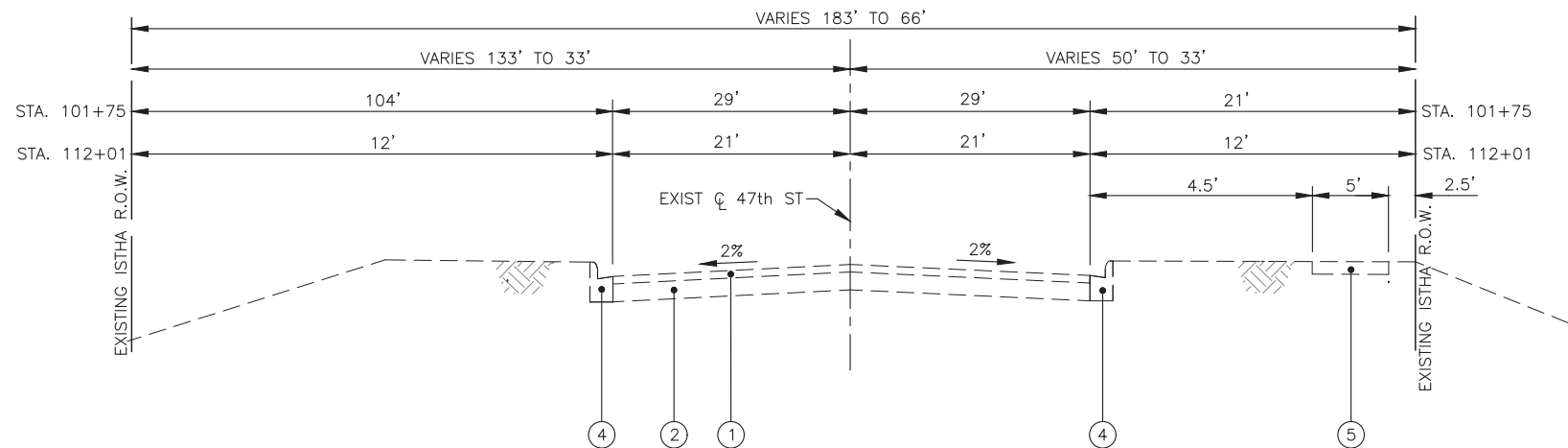
- ① EXISTING HOT-MIX ASPHALT PAVEMENT, 4.5" TO 7" AND VARIES
- ② EXISTING AGGREGATE BASE COURSE, 6.25" TO 8.5" AND VARIES
- ③ EXISTING CONCRETE CURB AND GUTTER, TYPE B-6.12
- ④ EXISTING P.C.C. SIDEWALK, 5" (7" ACROSS DRIVEWAYS)
- ⑤ SUB-BASE GRANULAR MATERIAL, TYPE B 4"
- ⑥ PORTLAND CEMENT CONCRETE PAVEMENT 8"
- ⑦ GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- ⑧ AGGREGATE SUBGRADE IMPROVEMENT - (AT LOCATIONS DESIGNATED BY THE ENGINEER)
- ⑨ PROPOSED CONCRETE CURB AND GUTTER, TYPE B-6.18
- ⑩ SODDING (INCLUDES 4" PULVERIZED TOP SOIL AND FERTILIZER) (AT LOCATIONS DESIGNATED BY THE ENGINEER)
- ⑪ COMBINATION CONCRETE CURB AND GUTTER REMOVAL (AT LOCATIONS DESIGNATED BY THE ENGINEER)
- ⑫ PAVEMENT REMOVAL -
- ⑬ REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL -
- ⑭ SEEDING, CLASS 2
- ⑮ LONGITUDINAL SAWED JOINT

SOIL NOTES:

1. THE SUBGRADE STABILITY SHALL BE VERIFIED BY PROOF ROLLING WITH A FULLY LOADED TANDEM-AXLE TRUCK.
2. 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.
3. GEOTECHNICAL FABRIC FOR GROUND STABILIZATION AND/OR AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAVE BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ABOVE ITEM WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE SSRBC AND IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR. THE LIMITS OF UNSTABLE SOILS ARE ESTIMATED AT THE APPROXIMATE LOCATIONS AS FOLLOWS:

STA. TO STA.	ESTIMATED UNDERCUT DEPTH	ESTIMATED UNDERCUT
CENTRAL AVENUE: 200+00 TO 204+97	12 INCHES	658 CU YD WITH GEOTECHNICAL FABRIC (1973 SQ YD)

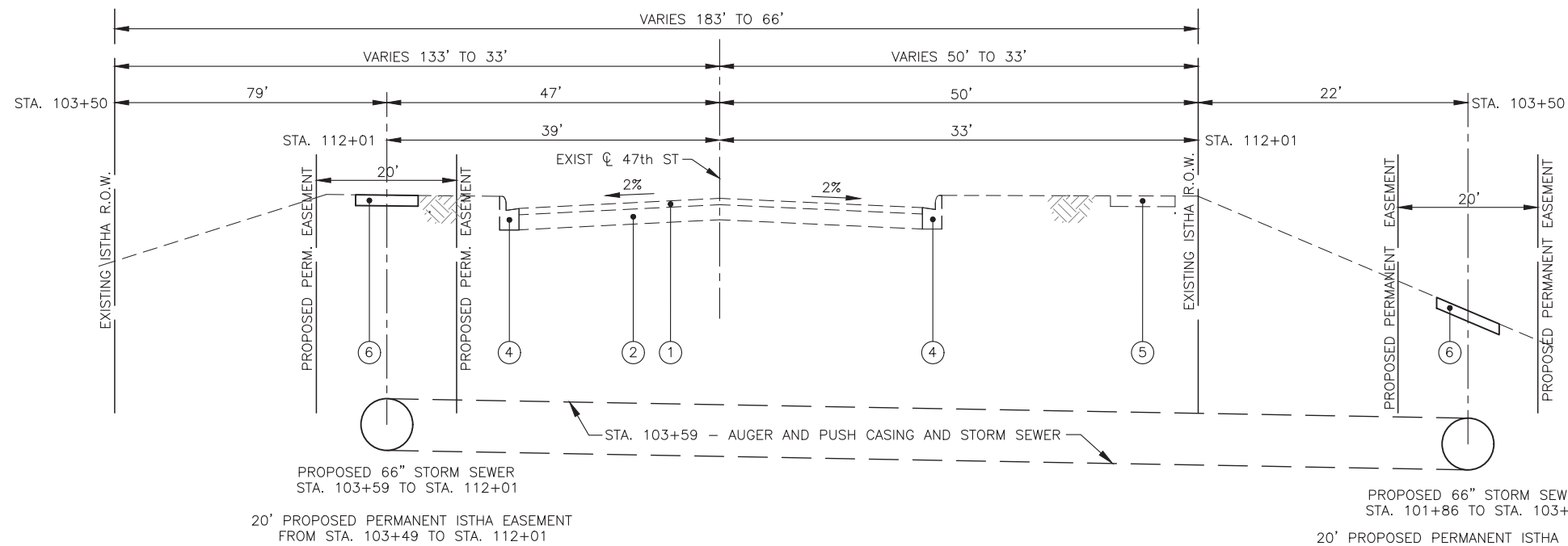




**EXISTING TYPICAL SECTION - 47th STREET  
STA. 101+75 TO STA. 112+01**

**LEGEND**

- ① EXISTING HOT-MIX ASPHALT PAVEMENT, 3" & VARIES
- ② EXISTING HOT-MIX ASPHALT BASE COURSE, THICKNESS VARIES
- ③ EXISTING AGGREGATE BASE COURSE, THICKNESS VARIES
- ④ EXISTING CONCRETE CURB AND GUTTER, TYPE B-6.12
- ⑤ EXISTING P.C.C. SIDEWALK
- ⑥ SEEDING, CLASS 2



**PROPOSED TYPICAL SECTION - 47th STREET  
STA. 101+75 TO STA. 112+01**

**NOTES:**

- 1. IMPROVEMENTS ALONG 47TH STREET ARE LIMITED TO STORM SEWER CONSTRUCTION, NO ROADWAY IMPROVEMENTS ARE PROPOSED.



JAMES J. BENES & ASSOCIATES, INC.  
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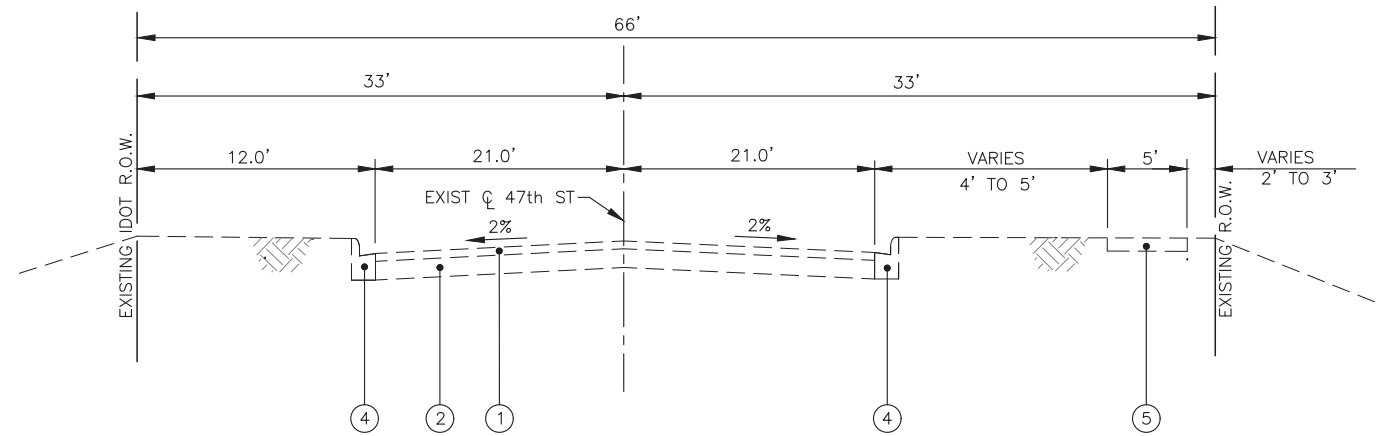
DESIGNED — LAK	REVISED —
DRAWN — SMP	REVISED —
CHECKED — JCZ	REVISED —
DATE — 10/11/2021	REVISED —

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>47th STREET TYPICAL SECTIONS</b>	
SCALE: NTS	SHEET NO. OF SHEETS
STA. — TO STA. —	

F.A.U. RTE. MUN 2003A	SECTION 16-00094-00-PV	COUNTY COOK	TOTAL SHEETS 88	SHEET NO. 14
ILLINOIS FED. AID PROJECT				

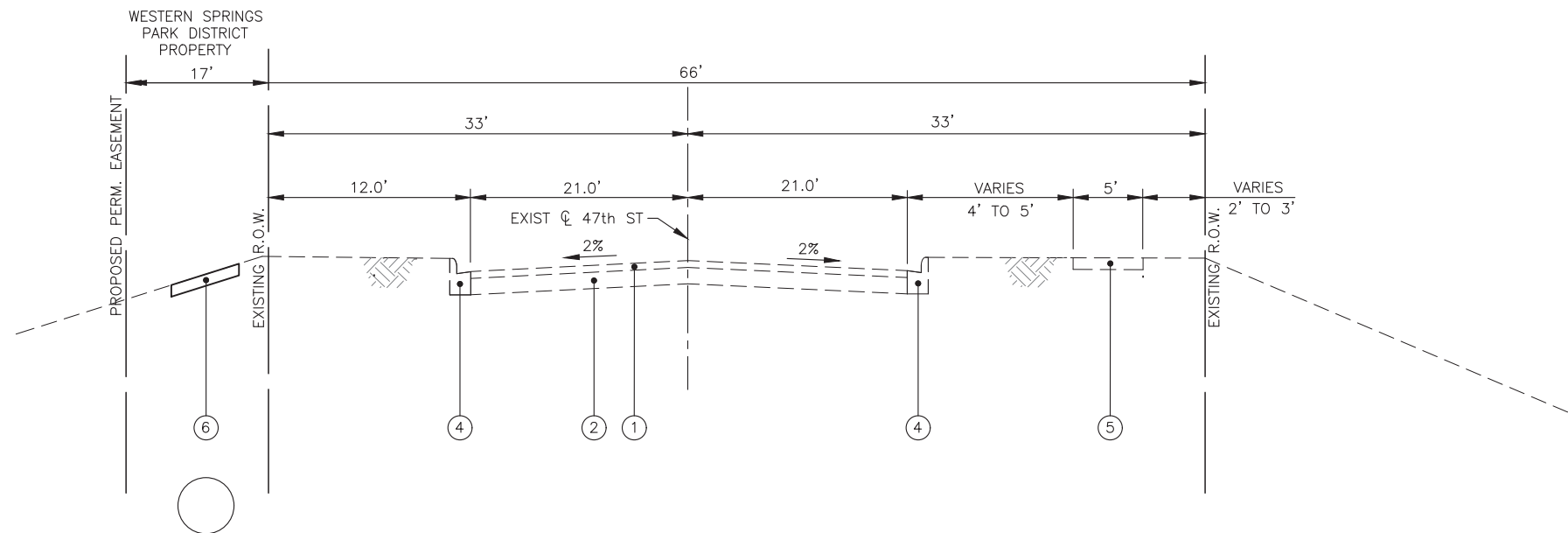
CONTRACT NO. 61H47



**EXISTING TYPICAL SECTION - 47th STREET**  
**STA. 112+01 TO STA. 116+50**

**LEGEND**

- ① EXISTING HOT-MIX ASPHALT PAVEMENT, 3" & VARIES
- ② EXISTING HOT-MIX ASPHALT BASE COURSE, THICKNESS VARIES
- ③ EXISTING AGGREGATE BASE COURSE, THICKNESS VARIES
- ④ EXISTING CONCRETE CURB AND GUTTER, TYPE B-6.12
- ⑤ EXISTING P.C.C. SIDEWALK
- ⑥ SEEDING, CLASS 2



PROPOSED 66" STORM SEWER  
 STA. 112+01 TO STA. 115+70

17' PROPOSED PERMANENT EASEMENT  
 FROM STA. 112+01 TO STA. 115+65

**PROPOSED TYPICAL SECTION - 47th STREET**  
**STA. 112+01 TO STA. 116+50**

**NOTES:**

1. IMPROVEMENTS ALONG 47TH STREET ARE LIMITED TO STORM SEWER CONSTRUCTION, NO ROADWAY IMPROVEMENTS ARE PROPOSED.



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DATE — 10/11/2021	REVISED —

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

<b>47th STREET</b>	
<b>TYPICAL SECTIONS</b>	
SCALE: NTS	SHEET NO. OF SHEETS
STA. — TO STA. —	

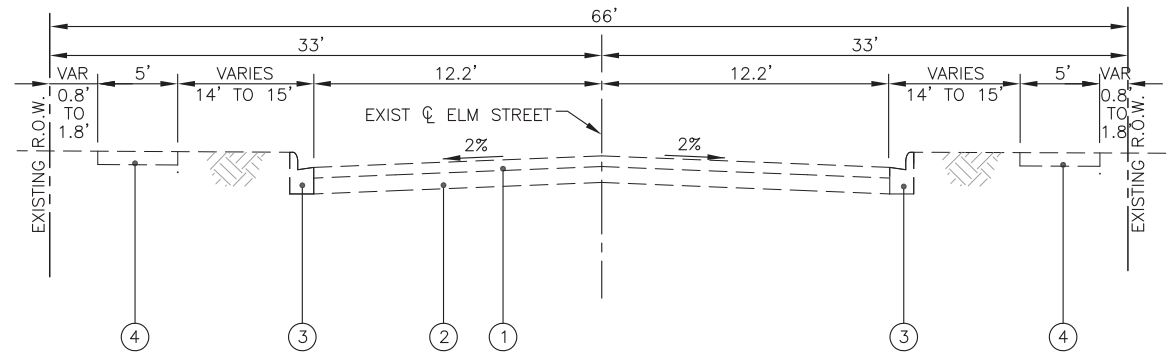
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MUN 2003A	16-00094-00-PV	COOK	88	15
CONTRACT NO. 61H47				
ILLINOIS FED. AID PROJECT				

NOTES:

ON ELM STREET, TRENCH BACKFILL QUANTITIES HAVE BEEN CALCULATED TO THE TOP OF THE EXISTING PAVEMENT TO MAINTAIN TRAFFIC. REMOVAL AND REUSE OF THE EXCESS TBF TO CONSTRUCT PAVEMENT PATCHING SHALL BE CONSIDERED AS PART OF THE PAVEMENT PATCHING ITEM AND WILL NOT PAID FOR SEPARATELY.

LEGEND

- ① EXISTING HOT-MIX ASPHALT PAVEMENT, 7" AND VARIES
- ② EXISTING AGGREGATE BASE COURSE, 5.5" AND VARIES
- ③ EXISTING CONCRETE CURB AND GUTTER, TYPE B-6.12
- ④ EXISTING P.C.C. SIDEWALK, 5" (7" ACROSS DRIVEWAYS)
- ⑤ TRENCH BACKFILL
- ⑥ CLASS D PATCHES, 6" -
- ⑦ HMA SURFACE COURSE, IL-9.5, MIX "D" N50, 2" -
- ⑧ REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL/ TRENCH BACKFILL
- ⑨ COMBINATION CONCRETE CURB AND GUTTER REMOVAL (AT LOCATIONS DESIGNATED BY THE ENGINEER)
- ⑩ SODDING (INCLUDES 4" PULVERIZED TOP SOIL AND FERTILIZER) (AT LOCATIONS DESIGNATED BY THE ENGINEER)



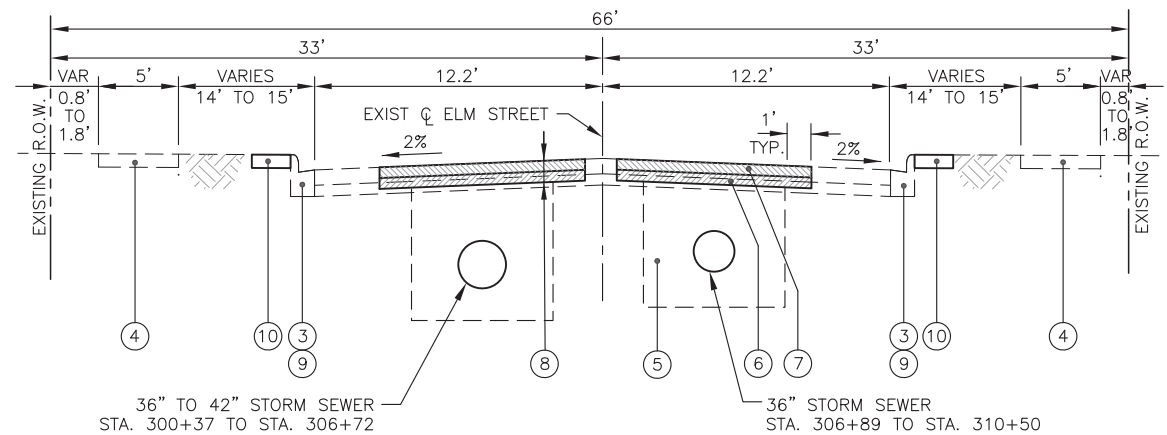
**EXISTING TYPICAL SECTION - ELM STREET  
STA. 300+41 TO STA. 310+59**

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ Ndes	QUALITY MANAGEMENT PROGRAM (QMP)
PATCHING		
CLASS D PATCHES, 6" (HMA BINDER IL-19mm)	4% @ 50 Gyr.	LR 1030-2
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2" (IL-9.5MM)	4% @ 50 Gyr.	LR 1030-2
TEMPORARY ACCESS (WINTERIZE)		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2" (IL-9.5MM)	4% @ 50 Gyr.	LR 1030-2
QMP DESIGNATION: QUALITY CONTROL/ QUALITY ASSURANCE (QC/QA) PER LR 1030-2		

NOTES:

- 1) THE UNIT WEIGHT USED TO CALCULATE ALL HMA QUANTITIES IS 112 LB/SY/IN.
- 2) THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATION.



**PROPOSED TYPICAL SECTION - ELM STREET  
STA. 300+41 TO STA. 310+59**

NOTE:  
PROPOSED STORM SEWER  
CROSSES ELM ST CENTERLINE  
STA 305+47 TO 305+62



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DEPARTMENT OF TRANSPORTATION**

<b>ELM STREET TYPICAL SECTIONS</b>		F.A.U. RTE. 16-00094-00-PV	COUNTY COOK	TOTAL SHEETS 88	SHEET NO. 16
SCALE: NTS	SHEET NO. OF SHEETS	STA. — TO STA. —	ILLINOIS FED. AID PROJECT		

CONTRACT NO. 61H47
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PLAN	REVISIONS	DATE
	BY	
PROFILE	GRADES CHECKED	DATE
	STRUCTURE NOTATIONS CHK'D	
NOTE BOOK NO. _____		
SERVICES PLOTTED		
ALIGNMENT CHECKED		
CADD FILE NAME		

PROFILE	REVISIONS	DATE
	BY	
PLAN	GRADES CHECKED	DATE
	STRUCTURE NOTATIONS CHK'D	
NOTE BOOK NO. _____		
SERVICES PLOTTED		
ALIGNMENT CHECKED		
CADD FILE NAME		

TREE ROOT PRUNING		
STATION	OFFSET (FEET)	QUANTITY (EACH)
<b>47th Street</b>		
101+88.3	82.3' RT	1
102+43.3	76' RT	1
102+94.1	81.4' RT	1
103+48.0	40.9' RT	1
103+59.0	41' RT	1
103+59.6	57' RT	1
103+64.8	47.1' RT	1
103+67.8	50.1' RT	1
103+77.2	43.9' LT	2
104+27.2	39.6' LT	2
104+30.2	40.5' LT	1
104+33.2	40.5' LT	1
104+35.2	40.5' LT	1
104+60.2	41.3' LT	1
104+67.3	43.3' LT	1
104+71.2	42.3' LT	1
104+85.3	43.2' LT	1
105+01.2	38.1' LT	1
105+40.3	42.9' LT	1
105+86.2	39.7' LT	1
106+32.2	41.4' LT	1
106+43.2	40.5' LT	1
106+69.3	41.3' LT	1
106+77.3	43.2' LT	1
106+80.3	42.1' LT	1
107+02.3	42.8' LT	1
107+13.2	39.9' LT	1
107+23.3	42' LT	1
107+39.3	42.2' LT	1
107+47.2	39.2' LT	1
107+62.4	45.3' LT	1
107+79.4	46.4' LT	1
107+93.3	44.5' LT	1
107+95.3	42.5' LT	1
108+53.2	40.6' LT	1
108+71.2	40.7' LT	1
108+78.2	40.3' LT	1
108+79.2	38.2' LT	1
108+83.1	36' LT	1
108+92.2	41.5' LT	1
108+97.2	40.3' LT	1
108+98.2	42.2' LT	2
<b>CENTRAL AVENUE</b>		
200+75.2	25.6' LT	1
201+16.2	26' LT	1
201+57.7	25.3' LT	1
203+91.9	25.9' LT	1
<b>TOTAL</b>		<b>49</b>

INLET FILTER		
STATION	OFFSET (FEET)	QUANTITY (EACH)
<b>47th ST</b>		
110+66	21.7' LT	1
110+64	21.8' RT	1
112+96	21.8' RT	1
112+99	22.0' RT	1
114+25	21.2' RT	1
114+35	21.3' LT	1
115+18	21.7' RT	1
115+20	21.5' LT	1
116+96	21.6' LT	1
<b>CENTRAL AVE</b>		
200+95	18.5' LT	1
200+95	12.6' RT	1
202+13	19.1' LT	1
202+13	12.6' RT	1
203+00	19.1' LT	1
203+00	12.5' RT	1
203+15	19.1' LT	1
203+16	12.6' RT	1
203+89	19.1' LT	1
203+88	12.5' RT	1
205+10	19.1' LT	1
205+10	12.6' RT	1
206+50	19.0' LT	1
206+50	12.6' RT	1
207+49	18.6' LT	1
207+49	12.6' RT	1
208+40	19.1' LT	1
209+00	19.0' LT	1
209+00	12.5' RT	1
212+50	19.0' LT	1
212+50	12.5' RT	1
213+69	22.3' LT	1
213+85	24.0' RT	1
<b>ELM ST</b>		
300+59	12.5' LT	1
303+43	17.1' LT	1
303+78	20.8' LT	1
303+37	18.9' RT	1
303+71	17.6' RT	1
306+88	15.4' RT	1
306+92	17.2' LT	1
307+21	16.2' RT	1
307+27	20.2' LT	1
310+68	28.0' RT	1
<b>TOTAL</b>		<b>42</b>

SODDING, SALT TOLERANT		
STATION	QUANTITY (SQ YD)	
<b>47TH STREET</b>		
114+00	117+00 RT	36
<b>CENTRAL AVENUE</b>		
200+00	205+00 LT	991
200+00	205+00 RT	485
205+00	210+00 LT	819
205+00	210+00 RT	654
210+00	213+85 LT	274
210+00	213+85 RT	406
<b>ELM STREET</b>		
300+00	304+00 LT	20
300+00	304+00 RT	20
304+00	308+00 LT	17
304+00	308+00 RT	20
<b>TOTAL</b>		<b>3,742</b>

DRIVEWAY QUANTITY SCHEDULE					
STATION	OFFSET	EXISTING PAVEMENT	DRIVEWAY PAVEMENT REMOVAL (SQ. YD.)	BRICK DRIVEWAY PAVEMENT, 6 INCH (SQ. FT.)	P.C.C. DRIVEWAY PVMT, 6 INCH (SQ. YD.)
<b>CENTRAL AVENUE</b>					
200+80	RT	HMA	15.4	-	19.1
201+42	RT	HMA	17.5	-	21.1
201+70	RT	HMA	19.0	-	23.9
202+50	RT	HMA	17.6	-	21.2
203+34	RT	HMA	31.2	-	32.9
204+24	RT	PCC	16.5	-	20.5
204+80	RT	HMA	44.6	-	46.0
205+77	RT	HMA	17.3	-	20.7
206+28	RT	PCC	14.8	-	18.9
206+76	RT	HMA	19.0	-	20.2
207+29	RT	HMA	17.9	-	21.3
208+28	LT	HMA	71.7	-	46.5
209+15	RT	HMA	16.6	-	20.5
210+06	RT	HMA	17.0	-	21.1
210+55	RT	HMA	14.7	-	17.4
211+05	RT	BRICK	-	120	-
211+54	RT	HMA	16.3	-	19.3
211+95	RT	HMA	26.9	-	28.1
212+16	RT	HMA	16.9	-	18.1
212+68	RT	HMA	18.0	-	21.5
<b>TOTAL QUANTITY =</b>			<b>430</b>	<b>120</b>	<b>460</b>

PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH			
STATION	TO	SIDE	AREA (SQ FT)
<b>47TH STREET</b>			
115+95	116+60	RT	314
<b>CENTRAL AVE</b>			
200+00	205+00	LT	745
200+00	205+00	RT	272
207+95	208+28	RT	258
208+28	208+60	RT	548
208+50	209+00	LT	100
213+58	213+97	LT	74
213+58	213+97	RT	363
<b>CONTINGENCY</b>			
			300
<b>TOTAL</b>			<b>2974</b>

DETECTABLE WARNINGS			
STATION	TO	SIDE	AREA (SQ FT)
<b>47TH ST</b>			
116+00	117+00	RT	12
<b>CENTRAL AVE</b>			
200+00	200+50	LT	23
200+00	200+50	RT	12
208+50	209+00	LT	10
208+00	208+60	RT	30
213+58	213+85	LT	10
213+58	213+85	RT	21
<b>TOTAL</b>			<b>106</b>

PAVEMENT REMOVAL			
STATION	TO	AREA (SQ FT)	AREA (SQ YD)
200+00	205+00	15229	1692
205+00	210+00	16281	1809
210+00	213+85	12277	1364
<b>TOTAL</b>		<b>43787</b>	<b>4865</b>

COMBINATION CURB AND GUTTER REMOVAL			
STATION	TO	SIDE	LENGTH (FEET)
<b>47TH STREET</b>			
116+13	116+17	RT	7
<b>CENTRAL AVE</b>			
200+00	205+00	LT	495
200+00	205+00	RT	492
205+00	210+00	LT	486
205+00	210+00	RT	514
210+00	213+97	LT	404
210+00	213+97	RT	408
<b>ELM STREET</b>			
300+43	301+30	LT	87
301+78	301+83	RT	5
301+80	301+88	LT	8
303+30	303+50	LT	23
303+50	303+80	LT	13
303+30	303+50	RT	18
303+50	303+80	RT	20
306+81	307+00	LT	20
307+00	307+31	LT	14
306+81	307+00	RT	21
307+00	307+33	RT	22
<b>TOTAL</b>			<b>3057</b>

SIDEWALK REMOVAL			
STATION	TO	SIDE	AREA (SQ FT)
<b>47TH STREET</b>			
115+95	116+60	RT	279
<b>CENTRAL AVE</b>			
200+00	205+00	LT	127
200+00	205+00	RT	294
207+95	208+28	RT	316
208+28	208+60	LT	92
208+28	208+60	RT	548
213+58	213+97	LT	75
213+58	213+97	RT	370
<b>TOTAL</b>			<b>2101</b>

COMBINATION CONCRETE CURB AND GUTTER, TYPE B6.12			
STATION	TO	SIDE	LENGTH (FEET)
<b>47TH ST</b>			
116+12	116+19	RT	7
<b>CENTRAL AVE</b>			
200+00	200+50	LT	50
200+00	200+50	RT	55
207+95	208+53	LT	42
<b>ELM ST</b>			
300+43	301+30	LT	87
300+48	300+58	RT	10
301+78	301+83	RT	5
301+80	301+88	LT	8
303+30	303+80	LT	36
303+30	303+80	RT	38
306+81	307+31	LT	34
306+81	307+33	RT	43
<b>TOTAL</b>			<b>415</b>

COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18			
STATION	TO	SIDE	LENGTH (FEET)
<b>CENTRAL AVE</b>			
200+00	205+00	LT	456
200+00	205+00	RT	451
205+00	207+95	LT	320
205+00	207+95	RT	336
208+53	210+00	LT	164
208+61	210+00	RT	174
210+00	213+97	LT	411
210+00	213+97	RT	418
<b>TOTAL</b>			<b>2730</b>

PAVEMENT MARKING REMOVAL - GRINDING		
STA.	TYPE	QTY SQ FT
<b>ELM STREET</b>		
300+45	STOP LINE	24
306+71	STOP LINE	24
307+40	STOP LINE	24
310+58	STOP LINE	30
303+27	CROSSWALK	48
303+82	CROSSWALK	48
306+79	CROSSWALK	48
307+34	CROSSWALK	48
<b>TOTAL</b>		<b>294</b>

PAINT PAVEMENT MARKING - LINE 12"		
STA.	TYPE	QTY FOOT
<b>47 STREET</b>		
116+15	CROSSWALK	6
<b>CENTRAL AVENUE</b>		
200+33	CROSSWALK	78
208+27	CROSSWALK	48
208+56	CROSSWALK	60
213+65	CROSSWALK	60
213+90	CROSSWALK	12
<b>TOTAL</b>		<b>264</b>

PAINT PAVEMENT MARKING - LINE 24"		
STA.	TYPE	QTY FOOT
<b>CENTRAL AVENUE</b>		
200+48	STOP BAR	18
207+92	STOP BAR	12
208+64	STOP BAR	18
213+62	STOP BAR	12
<b>TOTAL</b>		<b>60</b>

THERMOPLASTIC PAVEMENT MARKING - LINE 12"		
STA.	TYPE	QTY FOOT
<b>47 STREET</b>		
116+15	CROSSWALK	6
<b>BURLINGTON ST</b>		
213+00	CROSSWALK	12
<b>ELM STREET</b>		
303+27	CROSSWALK	48



DATE \_\_\_\_\_ BY \_\_\_\_\_  
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 GRADES CHECKED \_\_\_\_\_  
 STRUCTURE NOTATIONS CHKD \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 NO. \_\_\_\_\_

DATE \_\_\_\_\_ BY \_\_\_\_\_  
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 GRADES CHECKED \_\_\_\_\_  
 STRUCTURE NOTATIONS CHKD \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
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STORM SEWERS, CLASS A, TYPE 1 12IN					
NO.	MATERIAL	TYPE	DIA. (IN)	LENGTH (FOOT)	
P-10C	SS, CL A	1	12	17	
P-10D	SS, CL A	1	12	17	
P-16A	SS, CL A	1	12	12	
P-18A	SS, CL A	1	12	20	
P-19A	SS, CL A	1	12	9	
P-19C	SS, CL A	1	12	9	
<b>TOTAL</b>				<b>84</b>	

STORM SEWERS, CLASS A, TYPE 2 12IN					
NO.	MATERIAL	TYPE	DIA. (IN)	LENGTH (FOOT)	
P-9A	SS, CL A	2	12	8	
P-11A	SS, CL A	2	12	8	
P-12A	SS, CL A	2	12	8	
P-13A	SS, CL A	2	12	8	
P-14A	SS, CL A	2	12	8	
P-16	SS, CL A	2	12	68	
P-17	SS, CL A	2	12	92	
P-17A	SS, CL A	2	12	8	
P-18C	SS, CL A	2	12	100	
P-19D	SS, CL A	2	12	4	
P-19E	SS, CL A	2	12	15	
P-21	SS, CL A	2	12	33	
P-20A	SS, CL A	2	12	13	
P-20C	SS, CL A	2	12	25	
P-23A	SS, CL A	2	12	22	
P-23C	SS, CL A	2	12	12	
<b>TOTAL</b>				<b>432</b>	

STORM SEWERS, CLASS A, TYPE 2 15IN					
NO.	MATERIAL	TYPE	DIA. (IN)	LENGTH (FOOT)	
P-10A	SS, CL A	2	15	8	
<b>TOTAL</b>				<b>8</b>	

STORM SEWERS, CLASS A, TYPE 2 36IN					
NO.	MATERIAL	TYPE	DIA. (IN)	LENGTH (FOOT)	
P-20	SS, CL A	2	36	210	
P-21	SS, CL A	2	36	17	
P-22	SS, CL A	2	36	127	
<b>TOTAL</b>				<b>354</b>	

STORM SEWERS, CLASS A, TYPE 2 42IN					
NO.	MATERIAL	TYPE	DIA. (IN)	LENGTH (FOOT)	
P-19	SS, CL A	2	42	288	
P-18	SS, CL A	2	42	72	
P-14	SS, CL A	3	42	100	
P-15	SS, CL A	3	42	83	
<b>TOTAL</b>				<b>543</b>	

STORM SEWERS, CLASS A, TYPE 2 48IN					
NO.	MATERIAL	TYPE	DIA. (IN)	LENGTH (FOOT)	
P-10	SS, CL A	2	48	89	
P-11	SS, CL A	2	48	121	
P-14C	SS, CL A	2	48	140	
<b>TOTAL</b>				<b>350</b>	

STORM SEWERS, CLASS A, TYPE 2 54IN					
NO.	MATERIAL	TYPE	DIA. (IN)	LENGTH (FOOT)	
P-9	SS, CL A	2	54	88	
<b>TOTAL</b>				<b>88</b>	

STORM SEWERS, CLASS A, TYPE 2 60IN					
NO.	MATERIAL	TYPE	DIA. (IN)	LENGTH (FOOT)	
P-8	SS, CL A	2	60	118	
P-13	SS, CL A	2	60	38	
<b>TOTAL</b>				<b>156</b>	

STORM SEWERS, CLASS A, TYPE 2 66 IN					
NO.	MATERIAL	TYPE	DIA. (IN)	LENGTH (FOOT)	
P-1	SS, CL A	2	66	145	
P-5	SS, CL A	2	66	152	
P-6	SS, CL A	2	66	317	
P-7	SS, CL A	2	66	58	
<b>TOTAL</b>				<b>672</b>	

STORM SEWERS, CLASS A, TYPE 3 12IN					
NO.	MATERIAL	TYPE	DIA. (IN)	LENGTH (FOOT)	
P-15A	SS, CL A	3	12	8	
<b>TOTAL</b>				<b>8</b>	

STORM SEWERS, CLASS A, TYPE 3 36IN					
NO.	MATERIAL	TYPE	DIA. (IN)	LENGTH (FOOT)	
P-23	SS, CL A	3	36	363	
<b>TOTAL</b>				<b>363</b>	

STORM SEWERS, CLASS A, TYPE 4 66IN					
NO.	MATERIAL	TYPE	DIA. (IN)	LENGTH (FOOT)	
P-3	SS, CL A	4	66	667	
<b>TOTAL</b>				<b>667</b>	

STORM SEWERS, CLASS A, TYPE 5 66"					
NO.	MATERIAL	TYPE	DIA. (IN)	LENGTH (FOOT)	
P-2A	SS, CL A	5	66	6	
P-2B	SS, CL A	5	66	20	
<b>TOTAL</b>				<b>26</b>	

STORM SEWERS, CLASS B, TYPE 1 12IN					
STA.	MATERIAL	TYPE	DIA. (IN)	LENGTH (FOOT)	
310+50 LT	SS, CL B	1	12	4	
<b>TOTAL</b>				<b>4</b>	

STORM SEWERS, CLASS B, TYPE 2 24IN					
STA.	MATERIAL	TYPE	DIA. (IN)	LENGTH (FOOT)	
310+50 LT	SS, CL B	1	24	4	
<b>TOTAL</b>				<b>4</b>	

PRECAST CONCRETE BOX CULVERT 8' X 3'				
NO.	MATERIAL	SIZE	LENGTH (FOOT)	
P-4	PRECAST CONCRETE	8' x 3'	65	
<b>TOTAL</b>			<b>65</b>	

PRECAST REINFORCED CONCRETE FLARED END SECTION 66"				
STRUCT. NO.	STATION	OFFSET (FEET)	QUANTITY (EACH)	
S-1	101+86	84.0' RT	1	
<b>TOTAL</b>			<b>1</b>	

RCP TEE, 42" PIPE WITH 12" RISER				
STRUCT. NO.	STATION	OFFSET (FEET)	QUANTITY (EACH)	
S-15	207+50	27.0' LT	1	
<b>TOTAL</b>			<b>1</b>	

REINFORCED CONCRETE PIPE TEE, 48" PIPE WITH 12" RISER				
STRUCT. NO.	STATION	OFFSET (FEET)	QUANTITY (EACH)	
S-11	203+89	27.0' LT	1	
<b>TOTAL</b>			<b>1</b>	

REINFORCED CONCRETE PIPE TEE, 60" PIPE WITH 12" RISER				
STRUCT. NO.	STATION	OFFSET (FEET)	QUANTITY (EACH)	
S-13	200+95	27.0' LT	1	
<b>TOTAL</b>			<b>1</b>	

REINFORCED CONCRETE PIPE TEE, 66" PIPE WITH 24" RISER				
STRUCT. NO.	STATION	OFFSET (FEET)	QUANTITY (EACH)	
S-7	115+65	38.2' LT	1	
<b>TOTAL</b>			<b>1</b>	

STORM SEWER REMOVAL 8"					
FROM STATION	SIDE	TO STATION	SIDE	LENGTH (FEET)	
<b>CENTRAL AVE</b>					
200+40	LT	200+60	LT	22	
202+75	LT	202+86	RT	48	
208+24	LT	208+40	RT	58	
<b>ELM ST</b>					
303+42	LT	303+55	LT	22	
303+37	RT	303+52	RT	20	
303+52	RT	303+72	RT	22	
303+55	LT	303+78	LT	31	
<b>TOTAL</b>				<b>223</b>	

STORM SEWER REMOVAL 12"					
FROM STATION	SIDE	TO STATION	SIDE	LENGTH (FEET)	
<b>47th ST</b>					
112+45	LT	112+38	LT	16	
<b>ELM ST</b>					
306+88	RT	307+05	RT	22	
307+05	RT	307+21	RT	20	
310+52	RT	310+57	RT	4	
<b>TOTAL</b>				<b>62</b>	

STORM SEWER REMOVAL 24"					
FROM STATION	SIDE	TO STATION	SIDE	LENGTH (FEET)	
<b>ELM ST</b>					
310+53	6' RT	310+61	6' RT	4	
<b>TOTAL</b>				<b>4</b>	

FIRE HYDRANTS TO BE REMOVED		
STATION	OFFSET (FEET)	QUANTITY (EACH)
<b>CENTRAL AVE</b>		
200+39	25.7' LT	1
204+22	24.6' LT	1
208+67	25.6' LT	1
<b>TOTAL</b>		<b>3</b>

FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX		
STATION	OFFSET (FEET)	QUANTITY (EACH)
<b>CENTRAL AVE</b>		
200+51	24.6' LT	1
204+22	24.6' LT	1
208+67	25.6' LT	1
<b>TOTAL</b>		<b>3</b>

DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED		
STATION	OFFSET (FEET)	QUANTITY (EACH)
<b>CENTRAL AVE</b>		
200+65	23' RT	1
201+34	22' RT	1
201+74	25' RT	1
204+85	22' RT	1
207+55	24' RT	1
209+08	19' RT	1
209+23	24' RT	1
210+50	25' RT	1
211+72	25' RT	1
<b>47th ST</b>		
4631 CENT	n/a	1
4625 CENT	n/a	1
4621 CENT	n/a	1
4617 CENT	n/a	1
4613 CENT	n/a	1
4605 CENT	n/a	1
4601 CENT	n/a	1
4565 CENT	n/a	1
4539 CENT	n/a	1
4533 CENT	n/a	1
4529 CENT	n/a	1
4489 CENT	n/a	1
4485 CENT	n/a	1
4479 CENT	n/a	1
<b>TOTAL</b>		<b>23</b>

CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 3 FRAME AND GRATE			
STRUCT. NO.	STATION	OFFSET (FEET)	QUANTITY (EACH)
S-10A	203+00	19.1' LT	1
S-10B	203+00	12.5' RT	1
<b>TOTAL</b>			<b>2</b>

CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 3V FRAME AND GRATE			
STRUCT. NO.	STATION	OFFSET (FEET)	QUANTITY (EACH)
S-9A	201+13	19.1' LT	1
S-11A	203+89	19.1' LT	1
S-12A	204+58	19.1' LT	1
S-13A	200+95	19.1' LT	1
S-14A	206+50	19.0' LT	1
S-15A	207+49	19.0' LT	1
S-17A	209+00	19.0' LT	1
S-18A	209+92	19.0' LT	1
S-19B	301+84	13.4' LT	1
S-19C	300+70	10.8' RT	1
S-21	302+09	11.5' RT	1
S-23A	306+92	17.2' LT	1
<b>TOTAL</b>			<b>12</b>

CATCH BASINS, TYPE C, TYPE 3V FRAME AND GRATE			
STRUCT. NO.	STATION	OFFSET (FEET)	QUANTITY (EACH)
S-9B	202+13	12.6' RT	1
S-11B	203+88	12.5' RT	1
S-12B	204+57	12.6' RT	1
S-13B	205+40	12.6' RT	1
S-14B	206+50	12.6' RT	1
S-15B	207+49	12.6' RT	1
S-17B	209+00	12.5' RT	1
S-18B	209+92	12.5' RT	1
<b>TOTAL</b>			<b>8</b>



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MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID			
STRUCT. NO.	STATION	OFFSET (FEET)	QUANTITY (EACH)
S-18	209+92	26.5' LT	1
<b>TOTAL</b>			<b>1</b>

MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID			
STRUCT. NO.	STATION	OFFSET (FEET)	QUANTITY (EACH)
S-22	306+72	5.2' LT	1
S-23	306+89	3.9' RT	1
S-24	310+50	5.5' RT	1
<b>TOTAL</b>			<b>3</b>

MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID			
STRUCT. NO.	STATION	OFFSET (FEET)	QUANTITY (EACH)
S-14	206+50	27.0' LT	1
S-16	208+33	27.0' LT	1
S-19	300+52	7.4' LT	1
S-19A	301+84	6.5' LT	1
S-20	303+40	5.2' LT	1
<b>TOTAL</b>			<b>5</b>

MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID			
STRUCT. NO.	STATION	OFFSET (FEET)	QUANTITY (EACH)
S-12	204+58	27.0' LT	1
<b>TOTAL</b>			<b>1</b>

MANHOLES, TYPE A, 8'-DIAMETER, TYPE 1 FRAME, CLOSED LID			
STRUCT. NO.	STATION	OFFSET (FEET)	QUANTITY (EACH)
S-9	202+13	27.0' LT	1
S-10	203+00	27.0' LT	1
<b>TOTAL</b>			<b>2</b>

MANHOLES, TYPE A, 9'-DIAMETER, TYPE 1 FRAME, CLOSED LID			
STRUCT. NO.	STATION	OFFSET (FEET)	QUANTITY (EACH)
S-8	200+57	27.0' LT	1
S-6	112+42	39.0' LT	1
<b>TOTAL</b>			<b>2</b>

INLETS, TYPE A, TYPE 3 FRAME AND GRATE			
STRUCT. NO.	STATION	OFFSET (FEET)	QUANTITY (EACH)
S-10C	203+16	19.1' LT	1
S-10D	203+16	12.6' RT	1
<b>TOTAL</b>			<b>2</b>

CATCH BASIN TO BE ADJUSTED		
STATION	OFFSET (FEET)	QUANTITY (EACH)
<b>CENTRAL AVE</b>		
213+69	22.3' LT	1
213+85	24.0' RT	1
<b>ELM ST</b>		
300+59	12.5' LT	1
<b>TOTAL</b>		<b>3</b>

CATCH BASIN TO BE RECONSTRUCTED		
STATION	OFFSET (FEET)	QUANTITY (EACH)
<b>ELM ST</b>		
303+43	17.1' LT	1
303+78	20.8' LT	1
303+37	18.9' RT	1
303+71	17.6' RT	1
307+27	20.2' LT	1
307+21	16.2' RT	1
<b>TOTAL</b>		<b>6</b>

CATCH BASINS TO BE RECONSTRUCTED WITH NEW TYPE 3 FRAME AND GRATE		
STATION	OFFSET (FEET)	QUANTITY (EACH)
<b>ELM ST</b>		
306+88	15.4' RT	1
<b>TOTAL</b>		<b>1</b>

MANHOLES TO BE ADJUSTED		
STATION	OFFSET (FEET)	QUANTITY (EACH)
<b>CENTRAL AVE</b>		
200+25	5.1' LT	1
202+75	0.2' LT	1
213+37	0.3' LT	1
<b>TOTAL</b>		<b>3</b>

SANITARY MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID		
STATION	OFFSET (FEET)	QUANTITY (EACH)
<b>CENTRAL AVE</b>		
201+60	0.3' LT	1
<b>TOTAL</b>		<b>1</b>

VALVE VAULTS TO BE ADJUSTED		
STATION	OFFSET (FEET)	QUANTITY (EACH)
<b>CENTRAL AVE</b>		
200+33	9.6' LT	1
213+54	9.8' LT	1
<b>TOTAL</b>		<b>2</b>

VALVE BOXES TO BE ADJUSTED		
STATION	OFFSET (FEET)	QUANTITY (EACH)
<b>CENTRAL AVE</b>		
	NOMINAL	3
<b>TOTAL</b>		<b>3</b>

REMOVING MANHOLES		
STATION	OFFSET (FEET)	QUANTITY (EACH)
<b>CENTRAL AVE</b>		
202+75	0' LT	1
203+93	0.3' LT	1
206+06	0.8' LT	1
208+24	0.0' LT	1
210+92	0.4' LT	1
<b>ELM ST</b>		
303+55	0.8' RT	1
310+50	5.5' RT	1
<b>TOTAL</b>		<b>7</b>

REMOVING CATCH BASINS		
STATION	OFFSET (FEET)	QUANTITY (EACH)
<b>CENTRAL AVE</b>		
202+86	13' RT	1
202+75	18' LT	1
<b>ELM ST</b>		
301+84	13.4' LT	1
306+92	17' LT	1
<b>TOTAL</b>		<b>4</b>

SANITARY SEWER REMOVAL 8"				
FROM		TO		LENGTH
STATION	SIDE	STATION	SIDE	FEET
<b>CENTRAL AVE</b>				
210+92		210+92		10
208+24		208+39		15
206+06		206+06		5
<b>ELM</b>				
303+48	17' LT	303+48	20' LT	20
303+48	0' LT	303+48	18' LT	18
<b>TOTAL</b>				<b>68</b>

SANITARY SEWER REMOVAL 10"				
FROM		TO		LENGTH
STATION	SIDE	STATION	SIDE	FEET
<b>CENTRAL</b>				
206+06		206+06		5
203+93		203+93		5
<b>TOTAL</b>				<b>10</b>

SANITARY SEWER REMOVAL 15"				
FROM		TO		LENGTH
STATION	SIDE	STATION	SIDE	FEET
<b>ELM</b>				
303+55		303+55		5
306+79		306+94		15
<b>TOTAL</b>				<b>20</b>

SANITARY SEWER REMOVAL 18"				
FROM		TO		LENGTH
STATION	SIDE	STATION	SIDE	FEET
<b>ELM ST</b>				
303+55	0' RT	303+55	23' RT	23
<b>TOTAL</b>				<b>23</b>

COMBINED SEWER REMOVAL 12"				
FROM		TO		LENGTH
STATION	SIDE	STATION	SIDE	FEET
<b>ELM ST</b>				
310+36	0' RT	310+50	5.5' RT	12
<b>TOTAL</b>				<b>12</b>

COMBINED SEWER REMOVAL AND REPLACEMENT, 30"				
FROM		TO		LENGTH
STATION	SIDE	STATION	SIDE	FEET
<b>47th STREET</b>				
110+47		110+47	40' LT	25
<b>TOTAL</b>				<b>25</b>



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 1011 Warrenville Road, Suite 420, Lisle, Illinois 60532  
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DESIGNED — JY	REVISED —
DRAWN — SMP	REVISED —
CHECKED — JCZ	REVISED —
DATE — 10/11/2021	REVISED —

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES  
 CENTRAL AVENUE ROADWAY AND SEWER IMPROVEMENTS

SCALE: N/A SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MUN 2003A	16-00094-00-PV	COOK	88	19
CONTRACT NO. 61H47			ILLINOIS FED. AID PROJECT	

PLAN	REVIEWED	DATE
NO.	PLOTTED	BY
	ALIGNMENT CHECKED	
	STRUCTURE CHECKED	
	CADD FILE NAME	

PROFILE	REVIEWED	DATE
NO.	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE CHECKED	
	NOTATMS CHK'D	

JUNCTION CHAMBER NO.1			
STRUCT. NO.	STATION	OFFSET (FEET)	QUANTITY (EACH)
S-2	103+59	71.0' LT	1
<b>TOTAL</b>			<b>1</b>

JUNCTION CHAMBER NO.2			
STRUCT. NO.	STATION	OFFSET (FEET)	QUANTITY (EACH)
S-3	103+58	47.0' LT	1
<b>TOTAL</b>			<b>1</b>

JUNCTION CHAMBER NO. 3			
STRUCT. NO.	STATION	OFFSET (FEET)	QUANTITY (EACH)
S-4	110+25	71.0' LT	1
S-5	110+89	40.3'	1
<b>TOTAL</b>			<b>2</b>

MANHOLES, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID			
STRUCT. NO.	STATION	OFFSET (FEET)	QUANTITY (EACH)
SAN-1	203+93	0.3' LT	1
SAN-2	206+06	0.8' RT	1
SAN-3	208+24	0.0' LT	1
SAN-4	210+92	0.4' LT	1
SAN-5	303+55	0.8' LT	1
<b>TOTAL</b>			<b>5</b>

STEEL CASING PIPE AUGERED AND JACKED 84"				
FROM		TO		LENGTH
STATION	SIDE	STATION	SIDE	FEET
<b>47TH STREET</b>				
103+59	40' LT	103+59	50' RT	90
<b>TOTAL</b>				<b>90</b>

PIPE ELBOW, 66"			
STRUCT. NO.	STATION	OFFSET (FEET)	QUANTITY (EACH)
S-17	209+00	26.7' LT	1
<b>TOTAL</b>			<b>1</b>

TEST HOLE			
STRUCTURE	STATION	OFFSET	EACH
<b>47TH STREET</b>			
WATERMAIN	107+56.8	42.9' LT	1
SANITARY SEWER	110+47.3	40.6' LT	1
WATERMAIN	110+73.9	40.4' LT	1
STORM SEWER	112+41.8	39.1' LT	1
<b>CENTRAL AVENUE</b>			
WATERMAIN	202+13.1	9.7' LT	1
SANITARY SEWER	202+12.9	0.0'	1
WATERMAIN	202+99.3	9.7' LT	1
SANITARY SEWER	202+99.1	0.1' RT	1
WATERMAIN	203+88.7	9.8' LT	1
SANITARY SEWER	203+88.6	0.3' RT	1
WATERMAIN	204+57.7	9.8' LT	1
SANITARY SEWER	204+57.5	0.4' LT	1
WATERMAIN	205+40.6	9.8' LT	1
SANITARY SEWER	205+40.5	0.5' LT	1
WATERMAIN	206+49.8	9.9' LT	1
SANITARY SEWER	206+49.7	0.5' LT	1
WATERMAIN	207+49.4	10.0' LT	1
SANITARY SEWER	207+49.4	0.3' LT	1
WATERMAIN	208+33.1	10.0' LT	1
SANITARY SEWER	208+33.1	0.0' LT	1
WATERMAIN	209+00.0	10.0' LT	1
SANITARY SEWER	209+00.0	0.1' LT	1
WATERMAIN	209+92.3	10.0' LT	1
SANITARY SEWER	209+92.1	0.2' LT	1
<b>ELM STREET</b>			
WATERMAIN	303+48.9	5.1' LT	1
WATERMAIN	303+50.4	17.9' LT	1
WATERMAIN	303+46.0	18.2' RT	1
COMBINED SEWER	303+53.3	17.8' RT	1
COMBINED SEWER	303+57.8	18.7' LT	1
COMBINED SEWER	305+56.3	0.0'	1
COMBINED SEWER	307+03.6	15.8' RT	1
COMBINED SEWER	307+04.8	4.0' RT	1
WATERMAIN	307+15.6	4.1' RT	1
WATERMAIN	307+13.7	16.0' RT	1
WATERMAIN	307+19.6	19.3' LT	1
<b>TOTAL</b>			<b>35</b>

STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH				
NO.	MATERIAL	TYPE	DIA. (IN)	LENGTH (FOOT)
P-9B	SS, VMR	-	12	32
P-11B	SS, VMR	-	12	32
P-12B	SS, VMR	-	12	32
P-13B	SS, VMR	-	12	32
P-14B	SS, VMR	-	12	32
P-15B	SS, VMR	-	12	31
P-17B	SS, VMR	-	12	32
P-18B	SS, VMR	-	12	32
P-20B	SS, VMR	-	12	36
P-20D	SS, VMR	-	12	38
P-23B	SS, VMR	-	12	36
P-23D	SS, VMR	-	12	33
<b>TOTAL</b>				<b>398</b>

STORM SEWER (WATER MAIN REQUIREMENTS) 15 INCH				
NO.	MATERIAL	TYPE	DIA. (IN)	LENGTH (FOOT)
P-10B	SS, VMR	-	15	32
<b>TOTAL</b>				<b>32</b>

SANITARY SEWER 8"				
FROM		TO		LENGTH
STATION	SIDE	STATION	SIDE	FEET
<b>CENTRAL AVE</b>				
210+92		210+92		10
208+24		208+39		15
206+06		206+06		5
<b>ELM</b>				
303+48	0' LT	303+48	20' LT	20
307+05	0' RT	307+05	18' RT	18
<b>TOTAL</b>				<b>68</b>

SANITARY SEWER 10"				
FROM		TO		LENGTH
STATION	SIDE	STATION	SIDE	FEET
<b>CENTRAL</b>				
206+06		206+06		5
203+93		203+93		5
<b>TOTAL</b>				<b>10</b>

SANITARY SEWER 12"				
FROM		TO		LENGTH
STATION	SIDE	STATION	SIDE	FEET
<b>CENTRAL</b>				
201+62	0' RT	203+93	0' RT	231
<b>TOTAL</b>				<b>231</b>

SANITARY SEWER 15"				
FROM		TO		LENGTH
STATION	SIDE	STATION	SIDE	FEET
<b>ELM</b>				
303+48		303+53		5
306+79		306+94		15
<b>TOTAL</b>				<b>20</b>

SANITARY SEWER 18"				
FROM		TO		LENGTH
STATION	SIDE	STATION	SIDE	FEET
<b>ELM</b>				
303+55	0' RT	303+55	23' RT	23
<b>TOTAL</b>				<b>23</b>



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CHECKED	— JCZ	REVISED	—
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

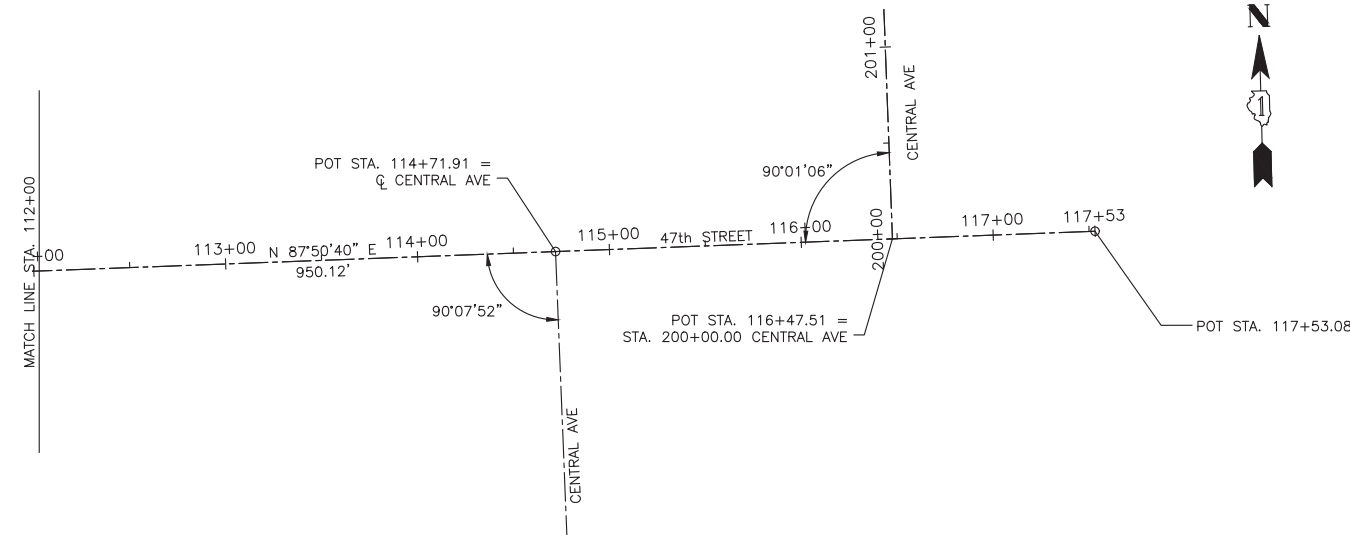
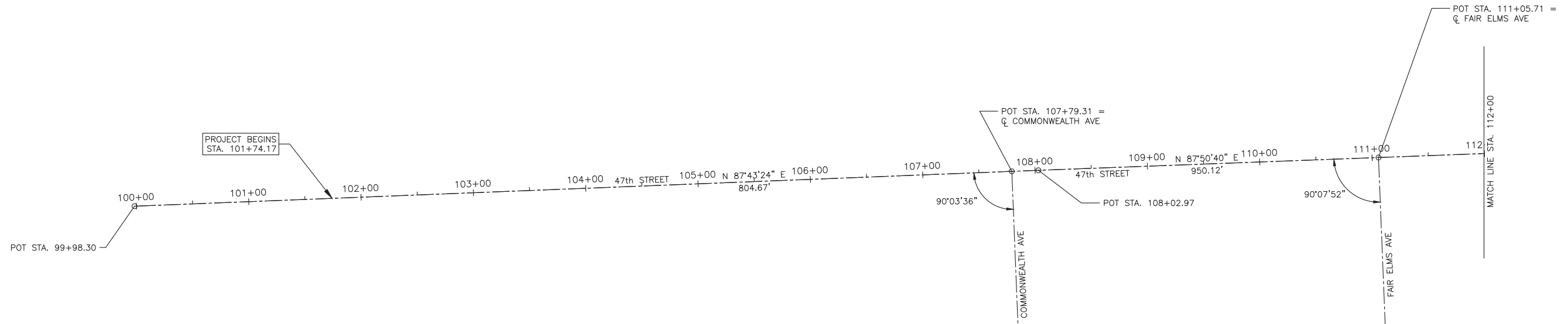
SCHEDULE OF QUANTITIES  
CENTRAL AVENUE ROADWAY AND SEWER IMPROVEMENTS

SCALE: N/A SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MUN 2003A	16-00094-00-PV	COOK	88	20
				CONTRACT NO. 61H47
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	AT		
	ON		
	MAX		
	FILE		
	NAME		
	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	AT		
	ON		
	STRUCTURE		
	NOTATIONS		
	CHKD		
	NO.		



- 47th STREET BENCHMARKS:**
- BM #7:  
EASTERN BOLT ON FIRE HYDRANT AT NORTHWEST CORNER OF CENTRAL AVENUE AND 47th STREET, NEAR STA. 116+22, 39' LT  
ELEVATION = 648.42 (NAVD88)
- BM #8:  
NORTH BOLT ON FIRE HYDRANT AT SOUTHWEST CORNER OF FAIR ELMS AVENUE AND 47th STREET, NEAR STA. 110+87, 60' RT  
ELEVATION = 646.48 (NAVD88)
- BM #9:  
NORTH BOLT ON FIRE HYDRANT AT SOUTHWEST CORNER OF COMMONWEALTH AVENUE AND 47th STREET, NEAR STA. 107+50, 64' RT  
ELEVATION = 653.41 (NAVD88)

- NOTES:**
- SHOULD CONTROL POINTS OR BENCH MARKS BE DESTROYED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR RE-ESTABLISHMENT, WHICH SHALL BE INCLUDED IN THE CONTRACT COST PER LUMP SUM OF CONSTRUCTION LAYOUT.
  - ALL ELEVATIONS ARE NAVD88 DATUM.
  - COORDINATES, BEARINGS & DISTANCES SHOWN HEREON REFERENCE THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83) (2011 ADJUSTMENT) "GRID".  
  
ALL MEASURED AND CALCULATED DISTANCES ARE "GRID" NOT "GROUND". TO OBTAIN GROUND DISTANCES, DIVIDE GRID DISTANCES SHOWN BY THE COMBINATION FACTOR OF 0.99996399 PER NGS PID'S AJ3066.

CURVE NO.	Δ	D <sub>a</sub>	T	R	L	E	POT/PI STATION	POT/PI COORDINATES		PC STATION	PC COORDINATES		PT STATION	PT COORDINATES	
								NORTHING	EASTING		NORTHING	EASTING		NORTHING	EASTING
47th STREET:							99+98.30	1,871,501.8180	1,099,589.3448						
							108+02.97	1,871,533.7816	1,101,393.3755						
							117+53.08	1,871,569.5167	1,101,342.8218						

CONTROL POINT NO.	LOCATION		NORTHING	EASTING	ELEVATION	DESCRIPTION
	STATION	OFFSET				
47th STREET:						
4	116+76.58	31.18 LT	1,871,597.7949	1,101,265.1945	647.52	CUT CROSS
6	111+51.42	28.66 RT	1,871,518.2444	1,100,742.6584	644.95	CUT CROSS
9	102+01.90	32.16 RT	1,871,477.7731	1,099,794.0597	665.46	CUT CROSS

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DRAWN — SMP	REVISED —
CHECKED — BDH	REVISED —
DATE — 10/11/2021	REVISED —

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

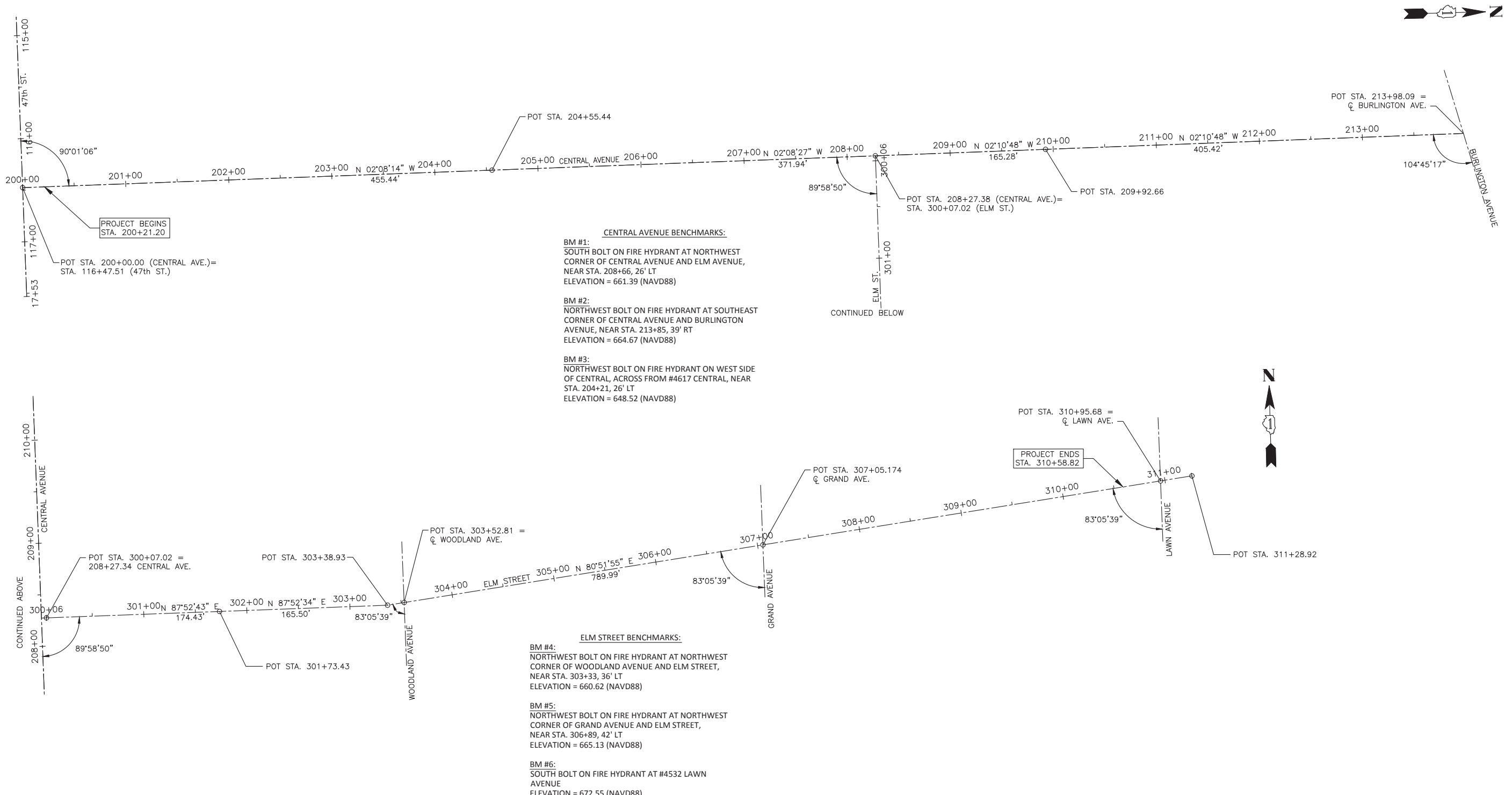
**ALIGNMENT AND BENCH MARKS**  
**CENTRAL AVENUE ROADWAY AND SEWER IMPROVEMENTS**

SCALE: 1"=50' SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MUN 2003A	16-00094-00-PV	COOK	88	21
CONTRACT NO. 61H47			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	AT 1/11/2021	
	FILE NAME	
	CADD FILE NAME	
NOTE BOOK NO.		

PROFILE	SURVEYED	DATE
	GRADES CHECKED	BY
	STRUCTURE NOTATIONS CHKD	
NOTE BOOK NO.		



**NOTES:**

- SHOULD CONTROL POINTS OR BENCH MARKS BE DESTROYED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR RE-ESTABLISHMENT, WHICH SHALL BE INCLUDED IN THE CONTRACT COST PER LUMP SUM OF CONSTRUCTION LAYOUT.
- ALL ELEVATIONS ARE NAVD88 DATUM.
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ALL MEASURED AND CALCULATED DISTANCES ARE "GRID" NOT "GROUND". TO OBTAIN GROUND DISTANCES, DIVIDE GRID DISTANCES SHOWN BY THE COMBINATION FACTOR OF 0.99996399 PER NGS PID'S AJ3066.

CURVE NO.	Δ	Dc	T	R	L	E	POT/PI STATION	POT/PI COORDINATES		PC STATION	PC COORDINATES		PT STATION	PT COORDINATES	
								NORTHING	EASTING		NORTHING	EASTING		NORTHING	EASTING
CENTRAL AVENUE:															
							200+00.00	1,871,565.5458	1,101,237.3197						
							204+55.44	1,872,020.6716	1,101,220.3358						
							208+27.38	1,872,392.3501	1,101,206.4412						
							209+92.66	1,872,557.5136	1,101,200.1544						
							213+98.09	1,872,962.6446	1,101,184.7336						
ELM STREET:															
							299+99.00	1,872,392.0534	1,101,198.4301						
							301+73.43	1,872,398.5103	1,101,372.7407						
							303+38.93	1,872,404.6442	1,101,538.1279						
							311+28.92	1,872,530.0595	1,102,318.1001						

CONTROL POINT NO.	LOCATION		NORTHING	EASTING	ELEVATION	DESCRIPTION
	STATION	OFFSET				
CENTRAL AVENUE:						
1	207+98.86	29.63 RT	1,872,365.0555	1,101,237.1108	676.01	CUT CROSS
3	204+56.38	29.23 RT	1,872,022.7050	1,101,249.5129	646.39	CUT CROSS
10	210+30.42	29.39 RT	1,872,596.3604	1,101,228.0858	663.46	CUT CROSS
11	213+50.96	29.14 RT	1,872,916.6601	1,101,215.6445	662.57	CUT CROSS
ELM AVENUE:						
12	303+26.93	26.21 RT	1,872,378.0099	1,101,527.1093	657.38	CUT CROSS
13	305+75.12	29.22 LT	1,872,470.9872	1,101,766.6780	660.74	CUT CROSS
14	306+82.16	29.91 LT	1,872,488.6684	1,101,872.2552	662.81	CUT CROSS
15	308+27.13	28.67 LT	1,872,510.4509	1,102,015.5812	666.39	CUT CROSS
16	310+69.84	31.08 LT	1,872,551.3614	1,102,254.8341	670.64	CUT CROSS

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

**ALIGNMENT AND BENCH MARKS**  
**CENTRAL AVENUE ROADWAY AND SEWER IMPROVEMENTS**

SCALE: 1"=50' SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MUN 2003A	16-00094-00-PV	COOK	88	22
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H47	



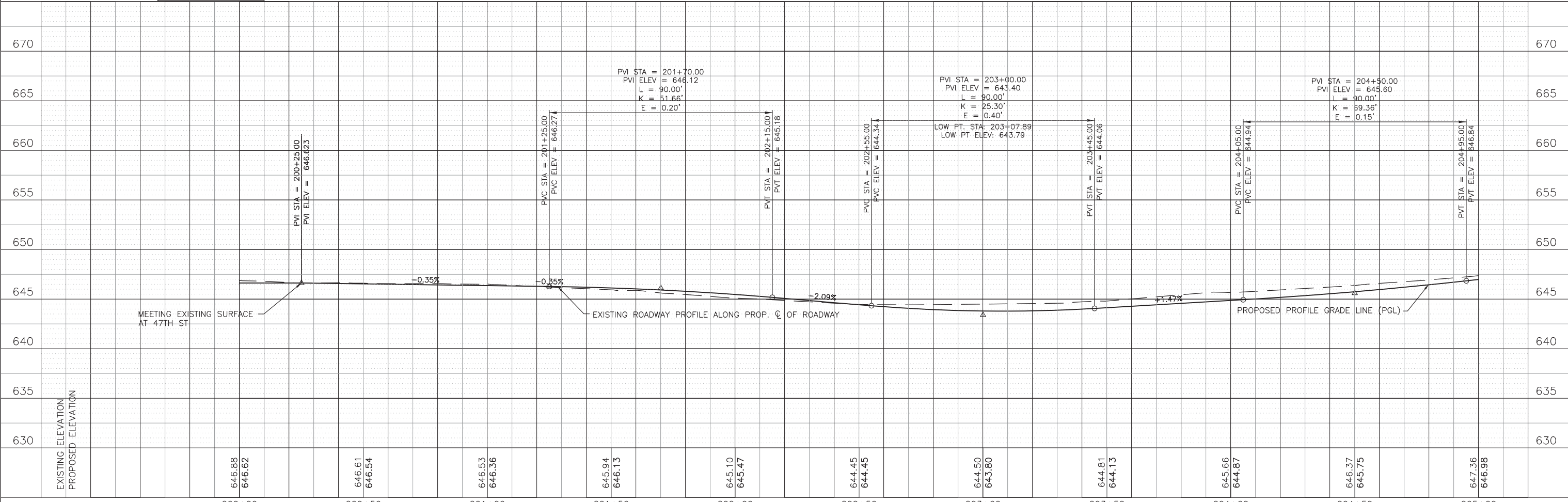
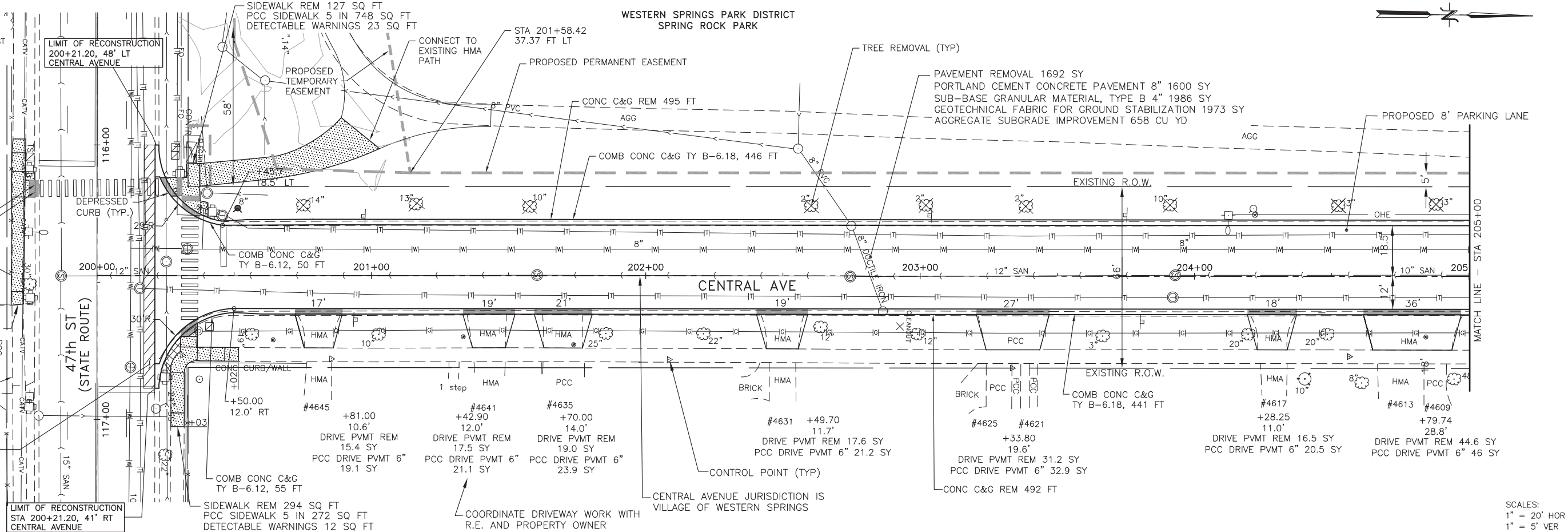
NOTES:  
 1) FINE GRADING OF PARKWAY TO PROVIDE POSITIVE DRAINAGE SHALL BE INCLUDED IN THE COST OF SODDING, SPECIAL AND WILL NOT BE PAID FOR SEPARATELY.

LEGEND  
 DEPRESSED CURB  
 DETECTABLE WARNINGS ON SIDEWALK RAMPS  
 PROVIDE PARKWAY DRAINAGE  
 PROPOSED PCC SIDEWALK  
 SIDEWALK REMOVAL  
 PAVEMENT PATCHING  
 CONC C&G REM 7 FT  
 COMB CONC C&G B-6.12, 7 FT

PROJECT BEGINS STA 199+68.74 CENTRAL AVENUE  
 STA 115+98 TO STA 116+58 SIDEWALK REM 279 SQ FT PCC SIDEWALK 5 IN 314 SQ FT DETECTABLE WARNINGS 13

CLASS D PATCHES, TYPE IV, 6" 39 SY HMA SURFACE COURSE, IL-9.5, MIX "D" N50 4.4 TONS

LIMIT OF RECONSTRUCTION STA 200+21.20, 48' LT CENTRAL AVENUE  
 LIMIT OF RECONSTRUCTION STA 200+21.20, 41' RT CENTRAL AVENUE



DATE	
BY	
PLAN	
NO.	
DATE	
BY	
PROFILE	
NO.	

DATE	
BY	
PROFILE	
NO.	

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DRAWN	- JY	REVISED	-
CHECKED	- JCZ	REVISED	-
DATE	- 10/11/2021	REVISED	-

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE  
 CENTRAL AVENUE

SCALE: 1"=20' SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. 200+00 TO STA. 205+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MUN 2003A	16-00094-00-PV	COOK	88	23
CONTRACT NO. 61H47			ILLINOIS FED. AID PROJECT	



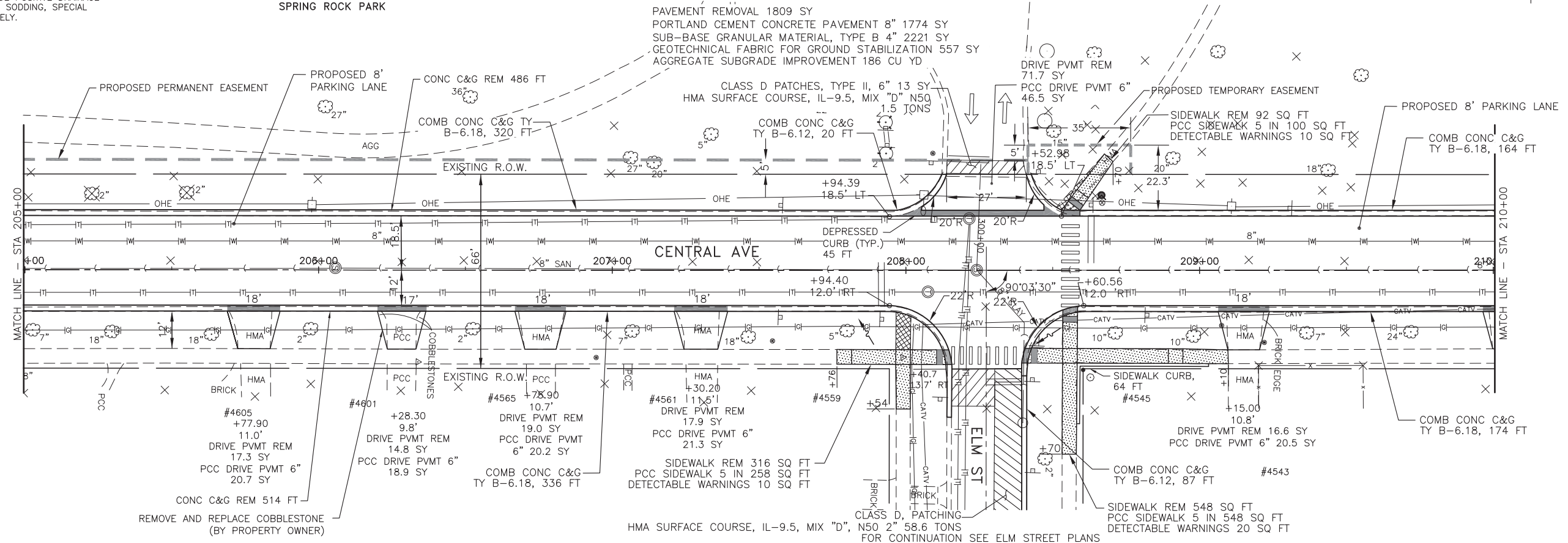
NOTES :  
 1) FINE GRADING OF PARKWAY TO PROVIDE POSITIVE DRAINAGE SHALL BE INCLUDED IN THE COST OF SODDING, SPECIAL AND WILL NOT BE PAID FOR SEPERATELY.

WESTERN SPRINGS PARK DISTRICT  
 SPRING ROCK PARK



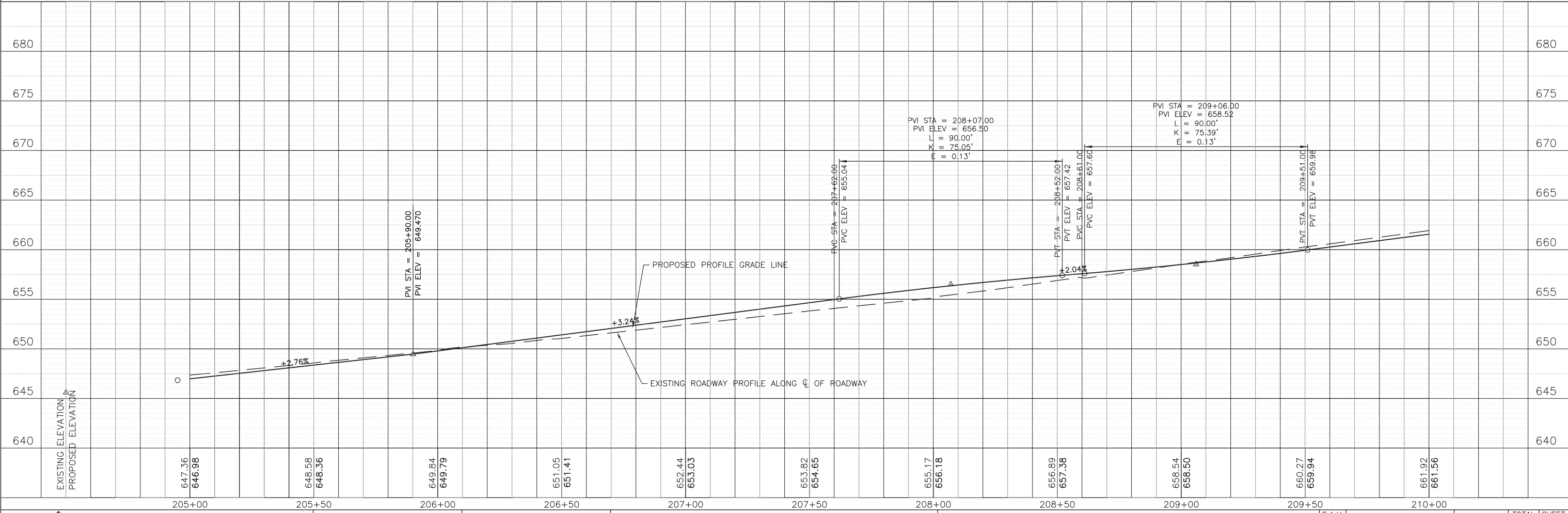
- LEGEND
- DEPRESSED CURB
  - DETECTABLE WARNINGS ON SIDEWALK RAMPS
  - PROVIDE PARKWAY DRAINAGE
  - PROPOSED PCC SIDEWALK
  - SIDEWALK REMOVAL
  - PAVEMENT PATCHING

DATE	
BY	
PLAN	
NO.	
DATE	
BY	
PROFILE	
NO.	



SCALES:  
 1" = 20' HOR  
 1" = 5' VER

DATE	
BY	
PROFILE	
NO.	
DATE	
BY	
PROFILE	
NO.	



**JJB** JAMES J. BENES & ASSOCIATES, INC.  
 1011 Warrenville Road, Suite 420, Lisle, Illinois 60532  
 Tel. (630) 719-7570 • Fax (630) 719-7589

DESIGNED	JY	REVISED	
DRAWN	JY	REVISED	
CHECKED	JCZ	REVISED	
DATE	01/14/2022	REVISED	

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SCALE: 1"=20' SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. 205+00 TO STA. 210+00

PLAN AND PROFILE  
 CENTRAL AVENUE

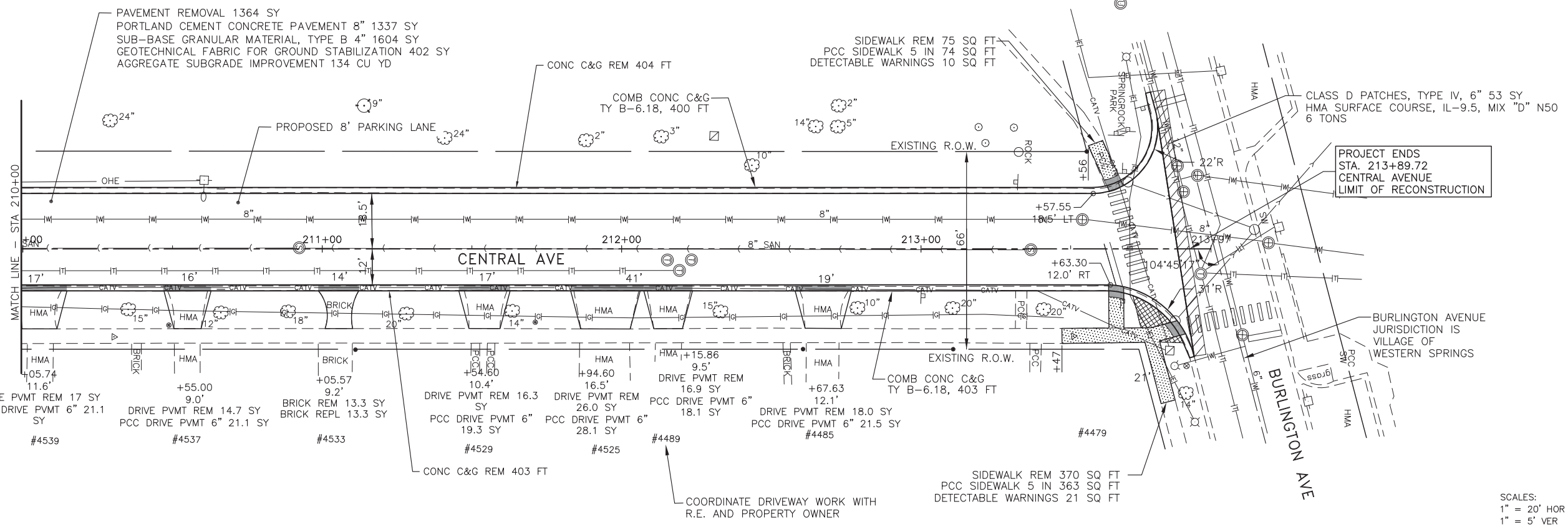
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MUN 2003A	16-00094-00-PV	COOK	88	24
CONTRACT NO. 61H47			ILLINOIS FED. AID PROJECT	

NOTES :  
 1) FINE GRADING OF PARKWAY TO PROVIDE POSITIVE DRAINAGE SHALL BE INCLUDED IN THE COST OF SODDING, SPECIAL AND WILL NOT BE PAID FOR SEPERATELY.

WESTERN SPRINGS PARK DISTRICT  
 SPRING ROCK PARK

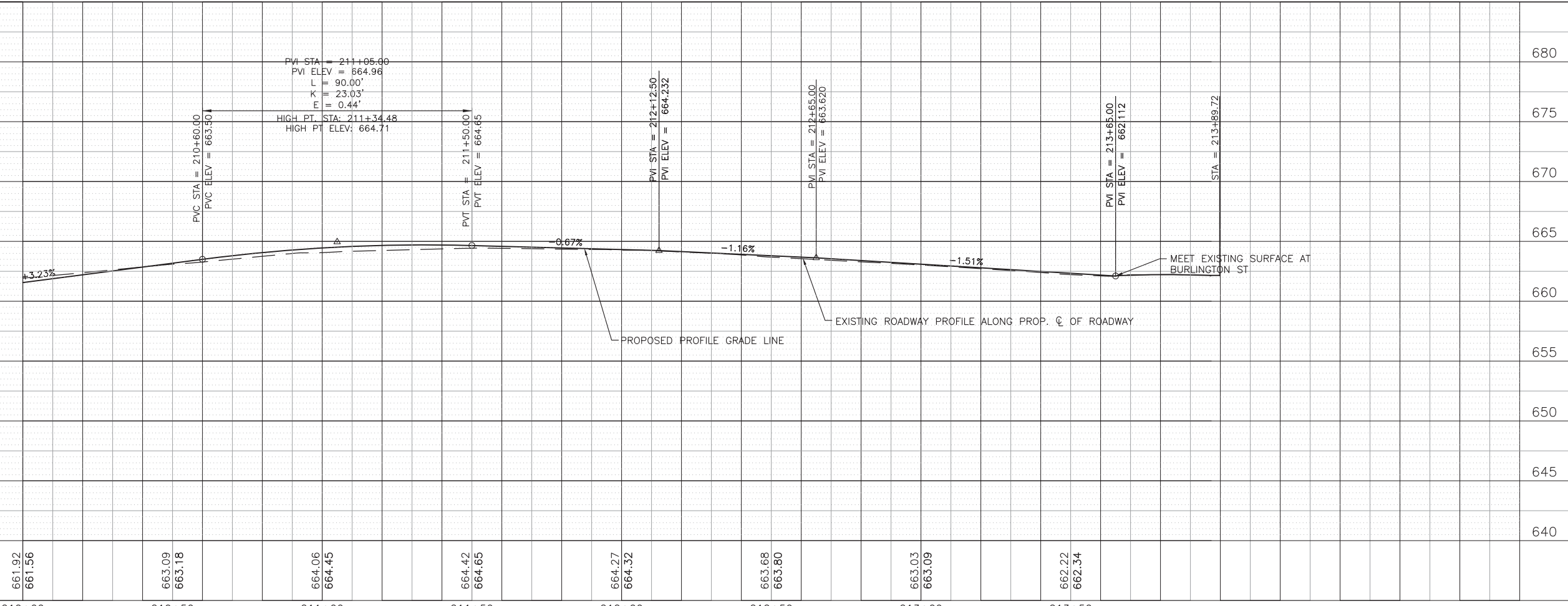


- LEGEND**
- DEPRESSED CURB
  - DETECTABLE WARNINGS ON SIDEWALK RAMP
  - PROVIDE PARKWAY DRAINAGE
  - PROPOSED PCC SIDEWALK
  - SIDEWALK REMOVAL
  - PAVEMENT PATCHING



PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	ALIGNED	
	FILED	
	NO.	

PROFILE	SURVEYED	DATE
	GRADES	BY
	CHECKED	
	STRUCTURE	
	NOTATMS	
	CHKD	
	NO.	



SCALE:  
 1" = 20' HOR  
 1" = 5' VER

EXISTING ELEVATION	661.92	663.09	664.06	664.42	664.27	663.68	663.03	662.22	680
PROPOSED ELEVATION	661.56	663.18	664.45	664.65	664.32	663.80	665.09	662.34	675
	210+00	210+50	211+00	211+50	212+00	212+50	213+00	213+50	670
									665
									660
									655
									650
									645
									640

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DRAWN — JY	REVISED —
CHECKED — JCZ	REVISED —
DATE — 10/11/2021	REVISED —

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE  
 CENTRAL AVENUE

SCALE: 1"=20' SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. 210+00 TO STA. 213+97

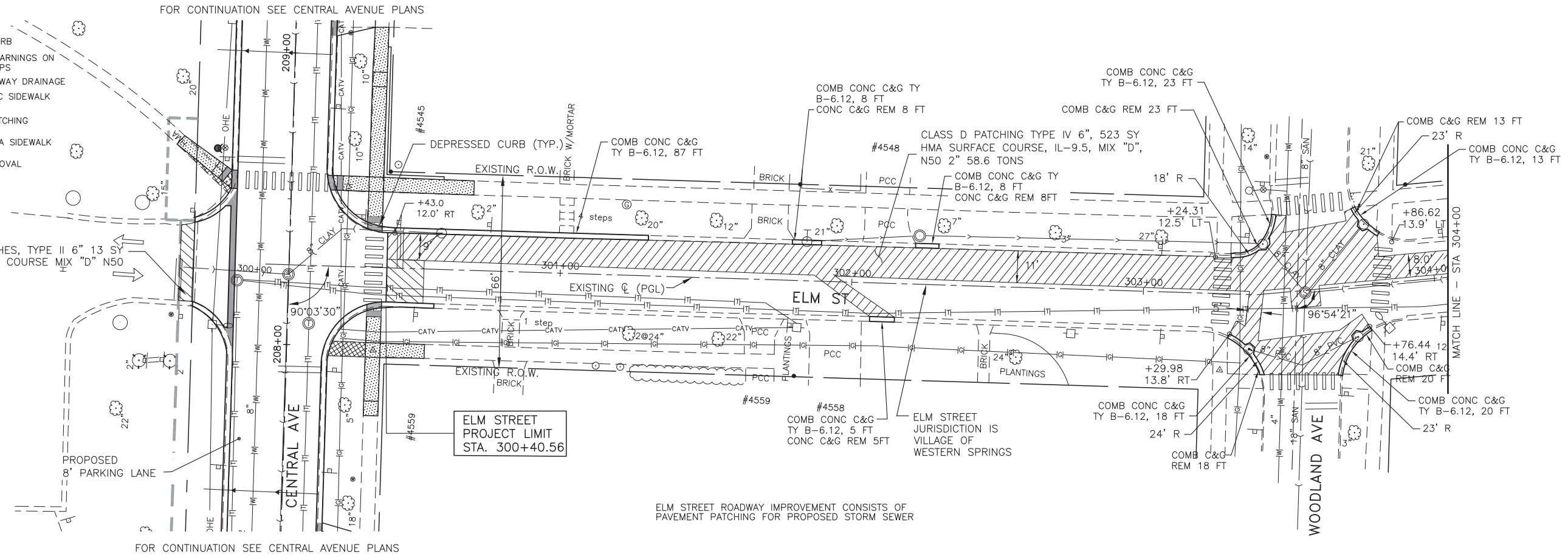
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MUN 2003A	16-00094-00-PV	COOK	88	25
CONTRACT NO. 61H47			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	AT	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	AT	
	NO.	

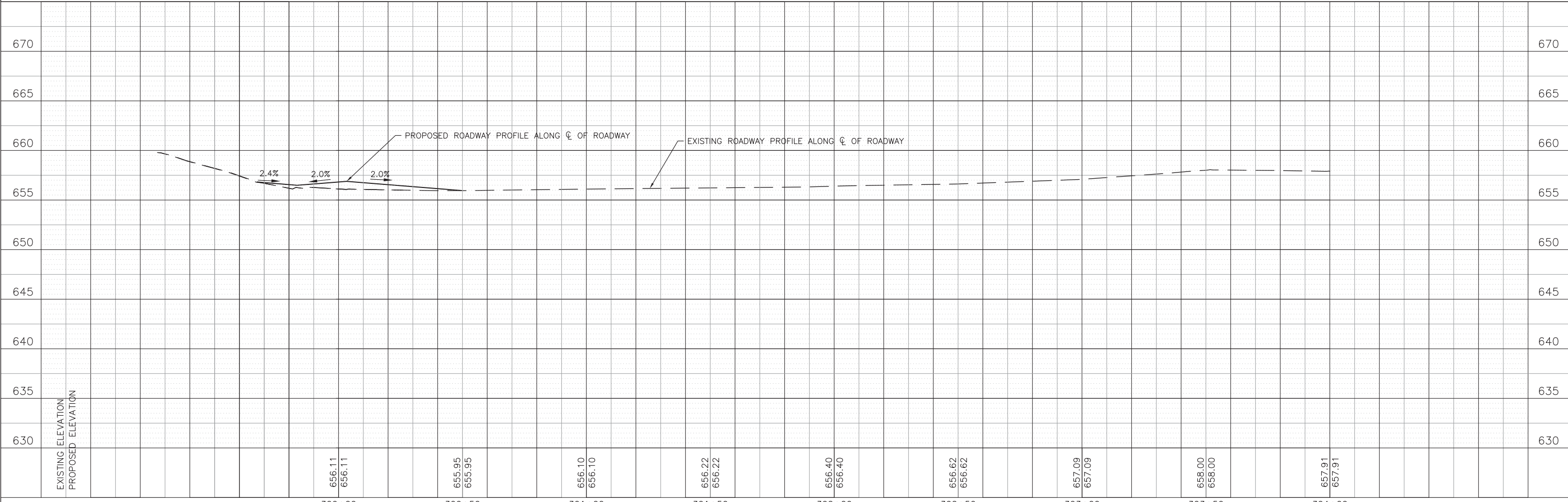
- LEGEND**
- DEPRESSED CURB
  - DETECTABLE WARNINGS ON SIDEWALK RAMP
  - PROVIDE PARKWAY DRAINAGE
  - PROPOSED PCC SIDEWALK
  - PAVEMENT PATCHING
  - PROPOSED HMA SIDEWALK
  - SIDEWALK REMOVAL

CLASS D PATCHES, TYPE II 6" 13 SY HMA SURFACE COURSE MIX "D" N50



ELM STREET ROADWAY IMPROVEMENT CONSISTS OF PAVEMENT PATCHING FOR PROPOSED STORM SEWER

SCALES:  
1" = 20' HOR  
1" = 5' VER



DESIGNED	JY	REVISED	
DRAWN	SMP	REVISED	
CHECKED	JCZ	REVISED	
DATE	10/11/2021	REVISED	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PLAN AND PROFILE  
ELM STREET**

SCALE: 1"=20' SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. 300+00 TO STA. 304+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MUN 2003A	16-00094-00-PV	COOK	88	26
CONTRACT NO. 61H47			ILLINOIS FED. AID PROJECT	

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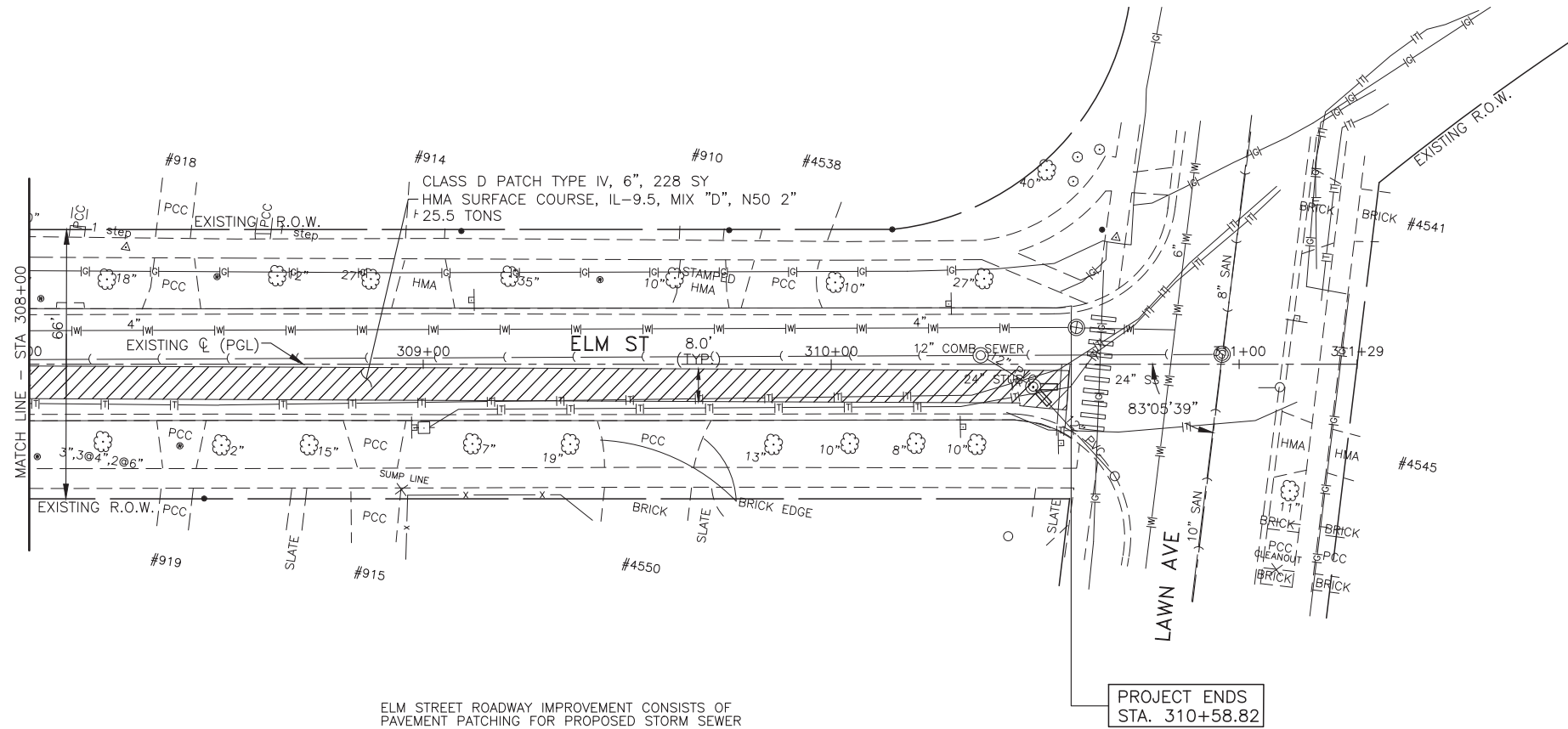




PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	AT	
	ON	
	MAX	
	FILE	
	NO.	

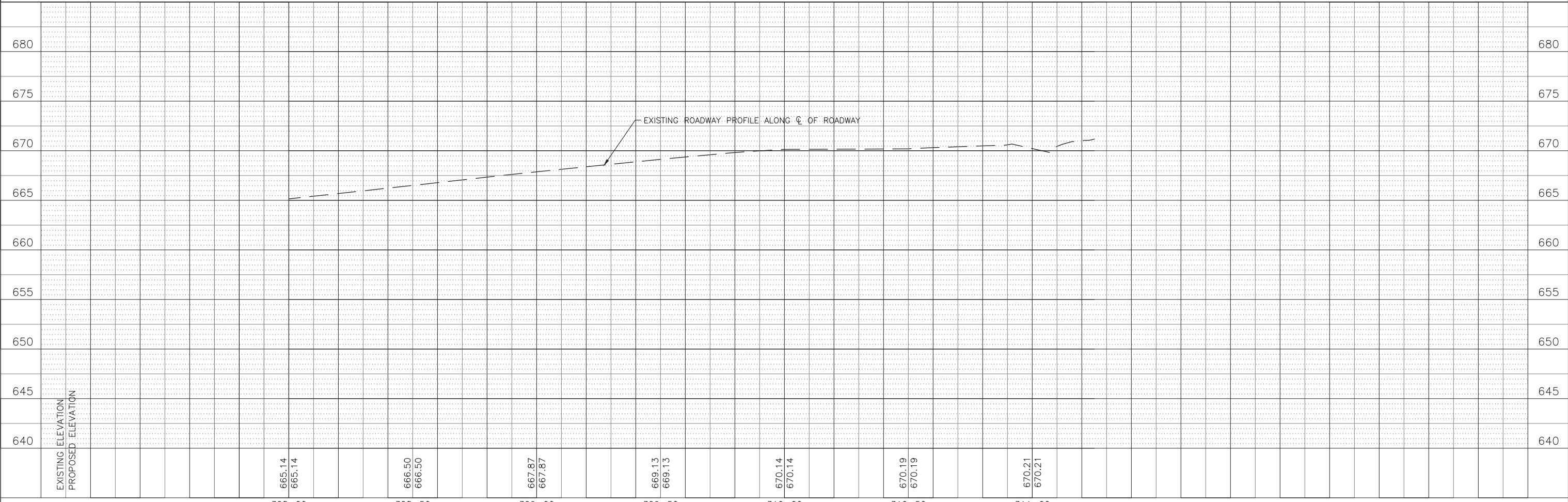
PROFILE	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	GRADES	
	STRUCTURE	
	NOTATMS	
	CHKD	
	NO.	

- LEGEND**
- DETECTABLE WARNINGS ON SIDEWALK RAMP
  - PROVIDE PARKWAY DRAINAGE
  - PROPOSED PCC SIDEWALK
  - PAVEMENT PATCHING



ELM STREET ROADWAY IMPROVEMENT CONSISTS OF PAVEMENT PATCHING FOR PROPOSED STORM SEWER

SCALE:  
1" = 20' HOR  
1" = 5' VER



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DESIGNED	— JY	REVISED	—
DRAWN	— SMP	REVISED	—
CHECKED	— JCZ	REVISED	—
DATE	— 10/11/2021	REVISED	—

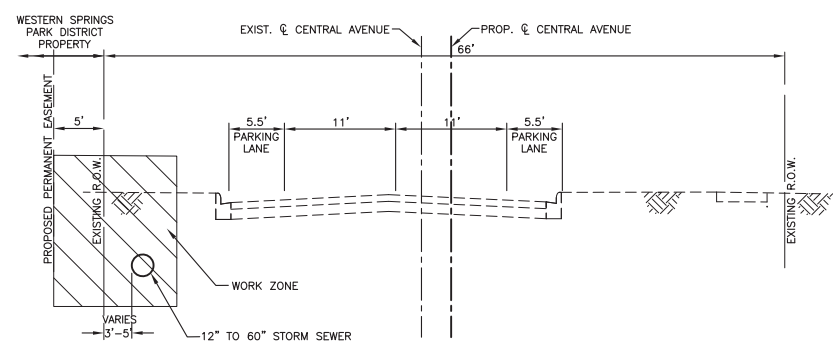
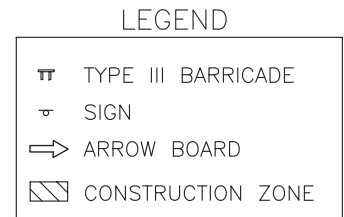
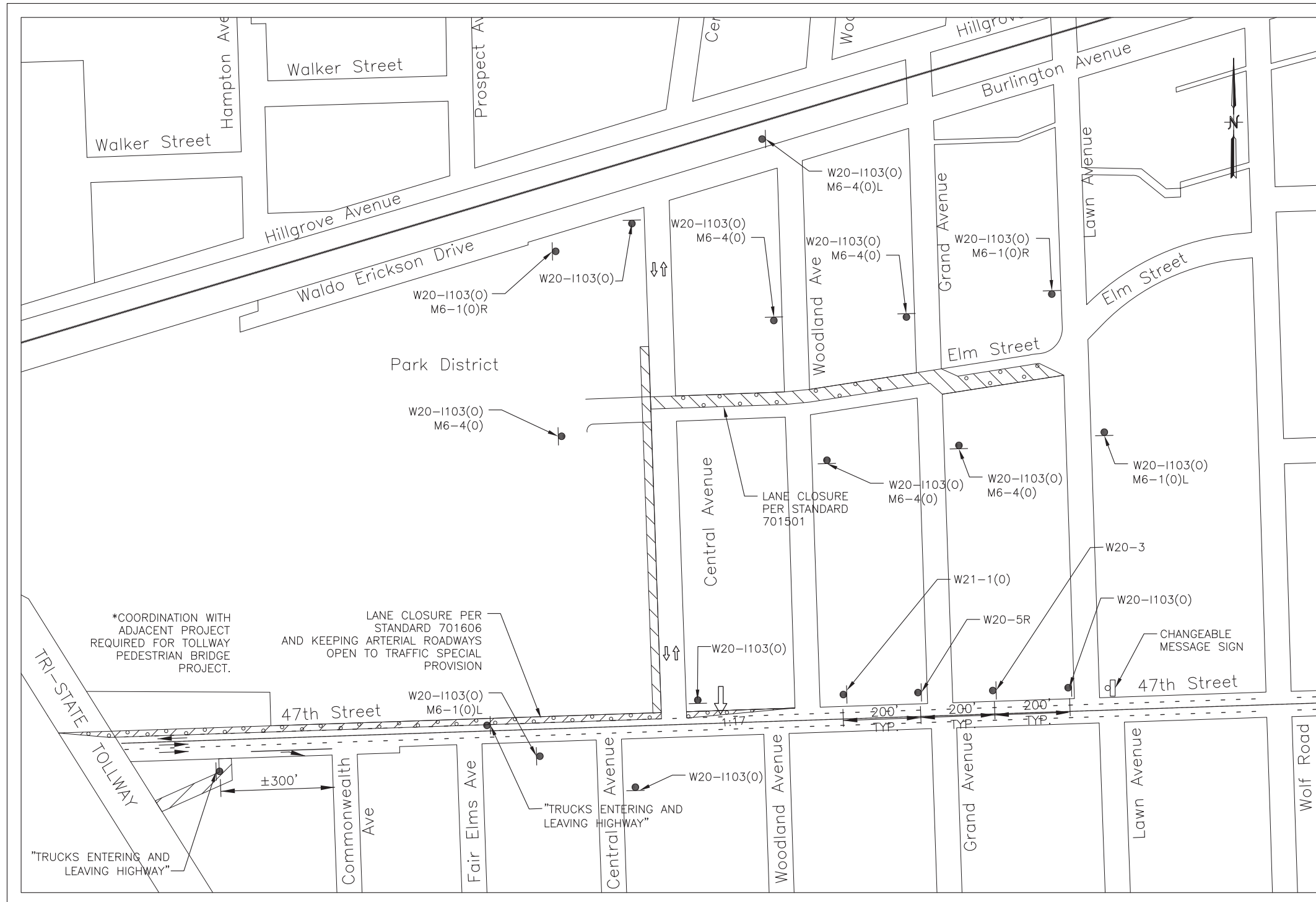
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PLAN AND PROFILE**  
**ELM STREET**

SCALE: 1"=20' SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. 308+00 TO STA. 311+25

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MUN 2003A	16-00094-00-PV	COOK	88	28
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H47	

STAGE 1



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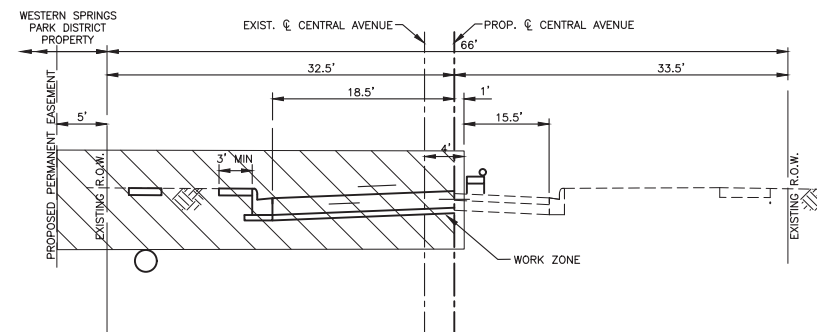
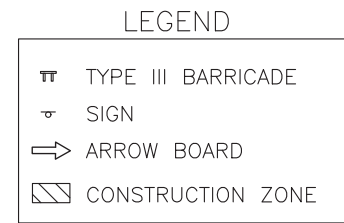
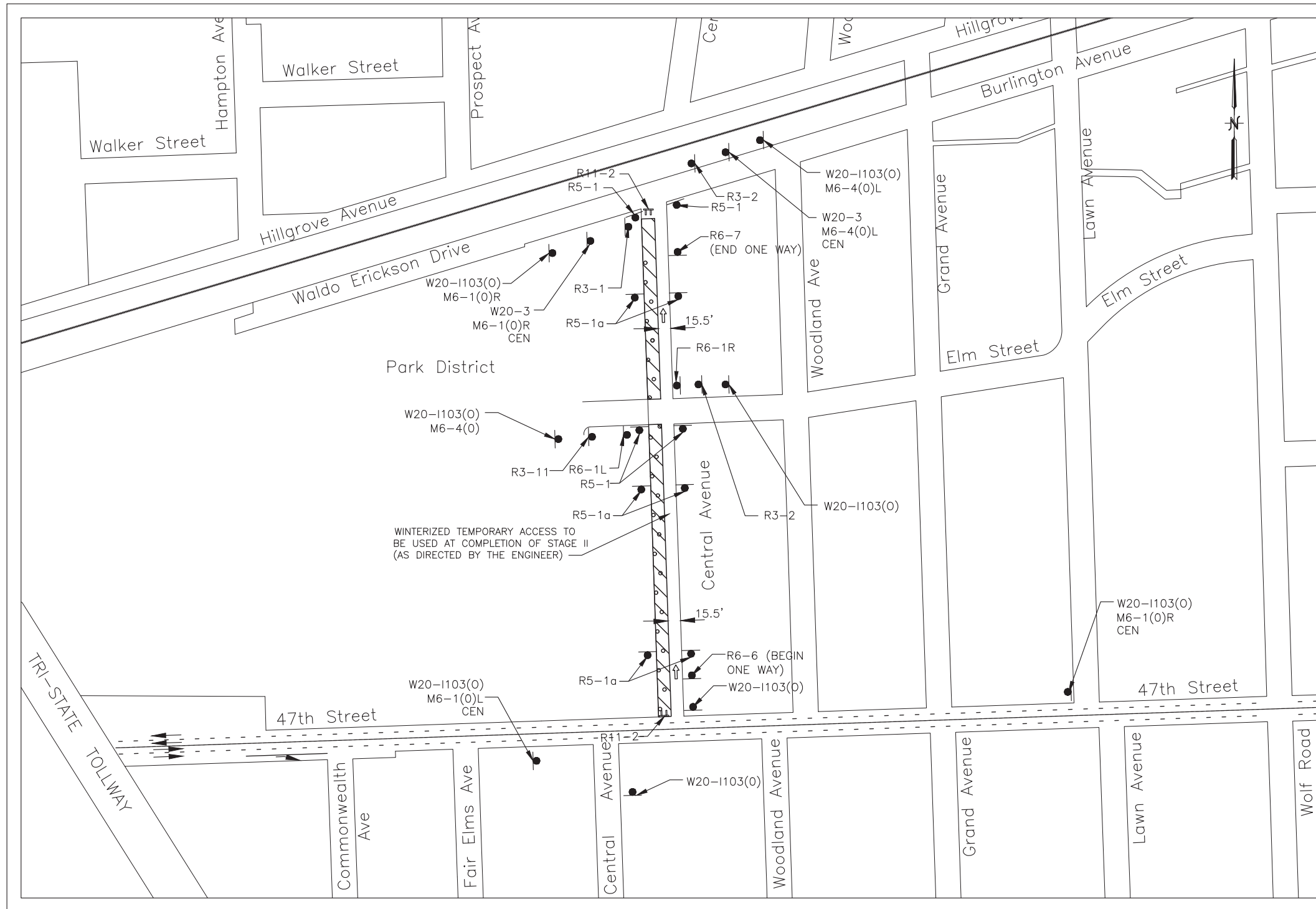
DESIGNED —	BLG	REVISED —	----
DRAWN —	SMP	REVISED —	----
CHECKED —	JCZ	REVISED —	----
DATE —	01/05/2022	REVISED —	----

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

**TRAFFIC CONTROL PLAN**  
**CENTRAL AVENUE ROADWAY AND SEWER IMPROVEMENTS**  
 SCALE: NTS      SHEET NO. OF SHEETS      STA. — TO STA. —

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MUN. 2003A	16-00094-00-PV	COOK	88	29
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H47	

STAGE 2



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DRAWN —	SMP	REVISED —	----
CHECKED —	JCZ	REVISED —	----
DATE —	10/11/2021	REVISED —	----

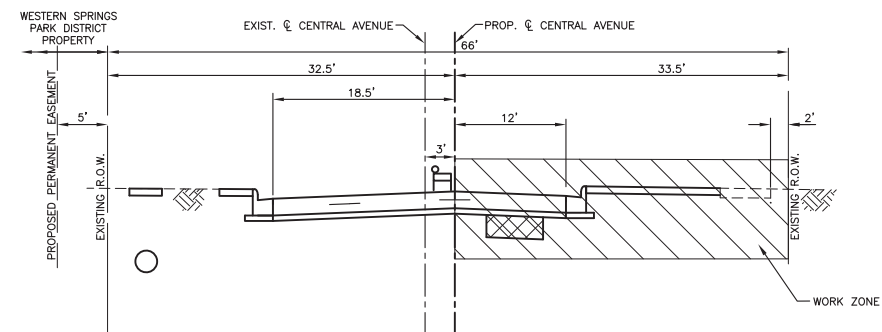
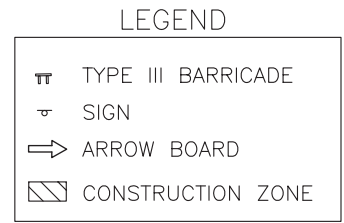
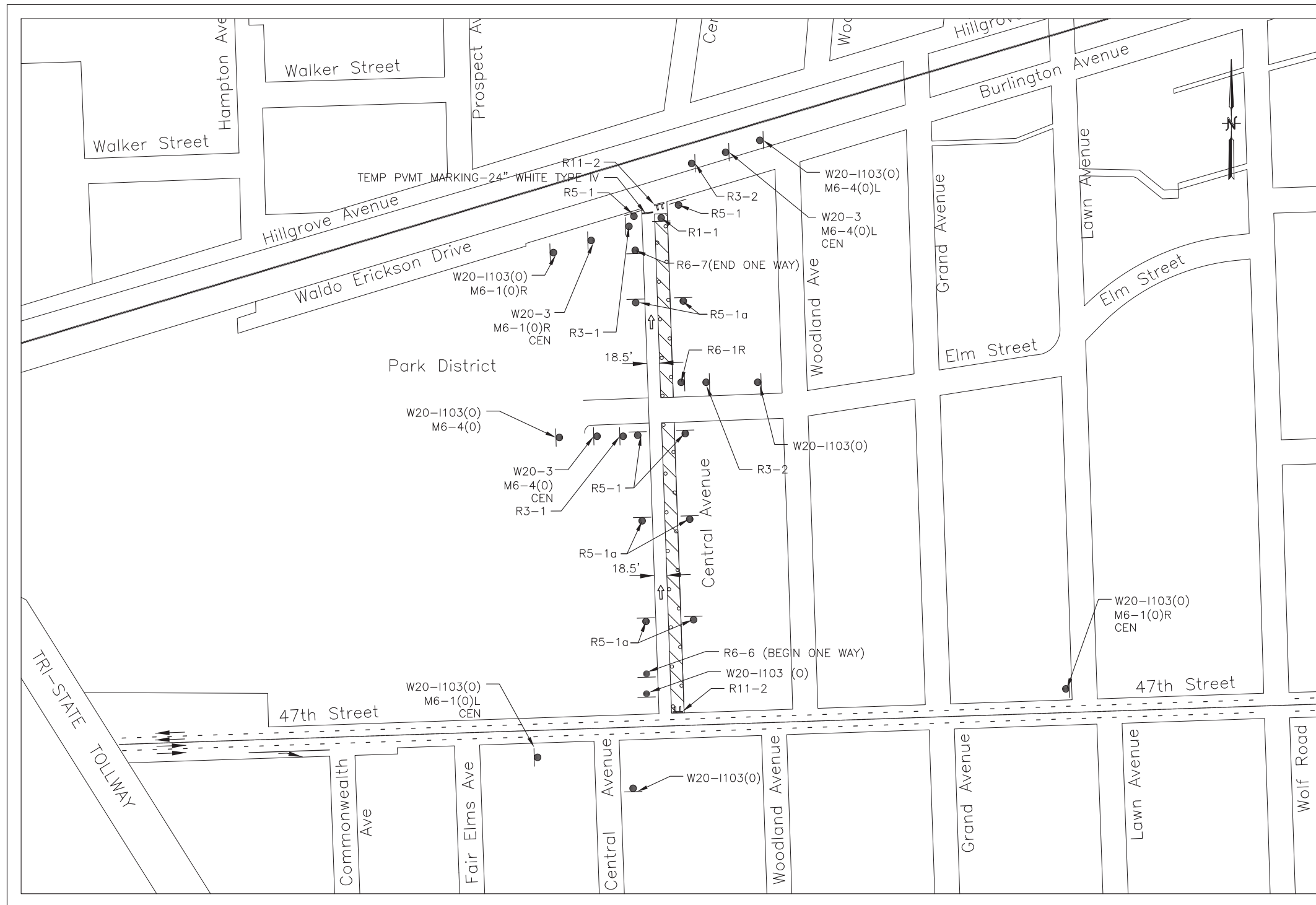
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL PLAN**  
**CENTRAL AVENUE ROADWAY AND SEWER IMPROVEMENTS**

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

F.A.U. RTE. MUN. 2003A	SECTION 16-00094-00-PV	COUNTY COOK	TOTAL SHEETS 88	SHEET NO. 30
ILLINOIS			FED. AID PROJECT	

CONTRACT NO. 61H47



DESIGNED —	BLG	REVISED —	----
DRAWN —	SMP	REVISED —	----
CHECKED —	JCZ	REVISED —	----
DATE —	10/11/2021	REVISED —	----

F.A.U. RTE. MUN. 2003A	SECTION 16-00094-00-PV	COUNTY COOK	TOTAL SHEETS 88	SHEET NO. 31
ILLINOIS			FED. AID PROJECT	





W20-1103(0)  
48"x48"



W20-3  
48"x48"



W20-3  
48"x48"



W20-5R  
48"x48"



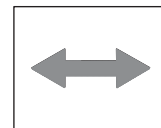
W21-1(0)  
48"x48"



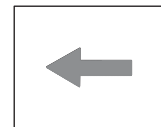
R3-1  
24"x24"



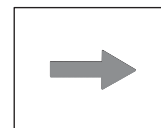
R3-2  
24"x24"



M6-4(0)  
21"x15"



M6-1(0)L  
21"x15"



M6-1(0)R  
21"x15"



R5-1  
30"x30"



CEN  
48"x12"



R11-4  
60"x30"



R11-2  
48"x30"



R1-1  
30"x30"



R6-1R  
36"x12"



R6-1L  
36"x12"



R5-1a  
36"x24"



R6-6  
24"x30"



R6-7  
24"x30"

IDOT STANDARD 701101-05,  
701427-05, 701606-10,  
701701-10 AND 701901-08 AND  
TRAFFIC CONTROL DETAIL TC-10,  
TC-14 AND TC-22 WILL BE  
IMPLEMENTED FOR PROPOSED  
47th STREET LANE CLOSURES

**TRAFFIC CONTROL GENERAL NOTES**

- CONSTRUCTION START TIME SHALL BE NO EARLIER THAN 7:30 AM.
- LAWN AVENUE, CENTRAL AVENUE, BURLINGTON AVENUE AND ELM STREET SHALL REMAIN OPEN TO EMERGENCY VEHICLES AND RESIDENT ACCESS AT ALL TIMES. ONE 10' WIDTH LANE OF PAVED OR GRAVEL SURFACE MUST BE PROVIDED IN THE WORK ZONE.
- ACCESS TO SIDE STREETS AND DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES. TEMPORARY CLOSURE OF A DRIVEWAY WILL BE ALLOWED ONLY WITH THE APPROVAL OF THE ENGINEER.
- ALL BARRICADES SHALL BE EQUIPPED WITH STEADY BURN AMBER LIGHTS AND SHALL BE WEIGHTED DOWN WITH SANDBAGS. THE USE OF BARRICADES WITH FLASHING LIGHTS WILL NOT BE ALLOWED.
- ADVANCE ROAD CLOSURE NOTICE SIGNS SHALL BE INSTALLED TWO WEEKS PRIOR TO THE START OF CONSTRUCTION. ALL ADVANCE WARNING SIGNS SHALL BE INSTALLED TWO DAYS PRIOR TO THE START OF CONSTRUCTION. ALL TRAFFIC CONTROL ITEMS SHALL CONFORM TO THE REQUIREMENTS OF THE IDOT STANDARD SPECIFICATIONS AND IDOT STANDARD 701501, AS WELL AS THE SPECIAL PROVISIONS FOR TRAFFIC CONTROL AND PROTECTION.
- ALL WARNING SIGNS SHALL HAVE BLACK LEGEND AND BORDER ON REFLECTORIZED ORANGE BACKGROUND UNLESS OTHERWISE SPECIFIED. WARNING SIGNS SHALL BE 48"x48" IN SIZE AND SHALL BE IN LIKE NEW CONDITION. DAMAGED AND/OR DIRTY WARNING SIGNS WILL NOT BE ALLOWED.
- WORK WHICH MAY INTERFERE WITH TRAFFIC FLOW AT INTERSECTIONS SHALL BE PERFORMED BETWEEN 9:00 A.M. AND 3:00 P.M. ONLY. FLAGGERS SHALL BE USED FOR ALL SUCH OPERATIONS.
- TEMPORARY ALL WEATHER "ONE WAY ONLY" SIGNS SHALL BE INSTALLED IN THE PARKWAY DIRECTLY ACROSS FROM ALL DRIVEWAYS (ATTACHED TO LATH OR OTHER SUITABLE STAKING). TEMPORARY ONE WAY SIGNAGE SHALL BE MAINTAINED THROUGH COMPLETION OF THE PROJECT AND SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION.
- RECONSTRUCTION OF INTERSECTIONS SHALL BE PERFORMED IN QUADRANTS TO MAINTAIN ACCESS TO SIDE STREETS AT ALL TIMES. STAGING OF INTERSECTION CONSTRUCTION SHALL BE INCLUDED IN THE COST OF PCC PAVEMENT 8".
- THE CONTRACTOR SHALL NOT BLOCK INTERSECTIONS DURING THE FOLLOWING SCHOOL DROP-OFF TIMES:  
8:00 AM - 8:45 AM, 3:15 PM - 3:45 PM
- ONLY THE IMMEDIATE WORK ZONE AREA MAY BE CLOSED DURING WORKING HOURS. THE ROADWAY SHALL BE SAFE FOR TRAFFIC AT THE END OF EACH WORKING DAY.
- RESIDENTS WILL NEED SIDEWALK ACCESS WHILE THEIR DRIVEWAYS ARE CLOSED. SIDEWALK AND DRIVEWAY CANNOT BE CLOSED AT THE SAME TIME.

**TRAFFIC CONTROL STAGING NOTES, 47th STREET:**

**STAGE I:**  
**TRAFFIC**

- MAINTAIN TWO-WAY TRAFFIC ON 47th STREET AT ALL TIMES
- SINGLE LANE CLOSURE FOR WESTBOUND 47th STREET SHALL COMPLY WITH STANDARD 701606 AND KEEPING ARTERIAL ROADWAYS OPEN TO TRAFFIC SPECIAL PROVISION.

**CONSTRUCTION**

- CONSTRUCT THE PROPOSED STORM SEWERS.
- PERFORM ANY DRAINAGE AND UTILITY WORK.
- COORDINATION WITH ADJACENT PROJECT REQUIRED FOR TOLLWAY PEDESTRIAN BRIDGE PROJECT.

**TRAFFIC CONTROL STAGING NOTES, CENTRAL AVENUE:**

**STAGE I:**  
**TRAFFIC**

- MAINTAIN TWO-WAY TRAFFIC DURING NON-WORK HOURS ON CENTRAL AVENUE AND ELM STREET

**CONSTRUCTION**

- CONSTRUCT THE PROPOSED STORM SEWERS.
- PERFORM ANY DRAINAGE AND UTILITY WORK.

**STAGE II:**  
**TRAFFIC**

- CENTRAL AVENUE - ONE-WAY NORTHBOUND TRAFFIC ON EAST LANE (MAINTAIN EXISTING PAVEMENT FOR DURATION OF STAGE II).

**CONSTRUCTION**

- REMOVE EXISTING PAVEMENT, CURB & GUTTER, DRIVEWAYS AND SIDEWALK ON THE WEST SIDE OF CENTRAL AVENUE.
- CONSTRUCT PROPOSED CURB & GUTTER, DRIVEWAYS AND PAVEMENT ON THE WEST SIDE OF CENTRAL AVENUE.
- WINTERIZED TEMPORARY ACCESS TO BE USED AT COMPLETION OF STAGE II (AS DIRECTED BY THE ENGINEER).

**STAGE III:**  
**TRAFFIC**

- CENTRAL AVENUE - ONE-WAY NORTHBOUND TRAFFIC ON NEW WEST LANE.

**CONSTRUCTION**

- REMOVE EXISTING PAVEMENT, CURB & GUTTER, DRIVEWAYS AND SIDEWALK ON THE EAST SIDE OF CENTRAL AVENUE.
- CONSTRUCT PROPOSED CURB & GUTTER, SIDEWALK, DRIVEWAYS AND PAVEMENT ON THE EAST SIDE OF CENTRAL AVENUE.



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DESIGNED	—	BLG	REVISED	—	----
DRAWN	—	SMP	REVISED	—	----
CHECKED	—	JCZ	REVISED	—	----
DATE	—	10/11/2021	REVISED	—	----

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN  
CENTRAL AVENUE ROADWAY AND SEWER IMPROVEMENTS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MUN. 2003A	16-00094-00-PV	COOK	88	32
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H47	

- NOTES :
- 1) FINE GRADING OF PARKWAY TO PROVIDE POSITIVE DRAINAGE SHALL BE INCLUDED IN THE COST OF SODDING, SALT TOLERANT AND WILL NOT BE PAID FOR SEPARATELY.
  - 2) ALL EXISTING AND PROPOSED OPEN LID STRUCTURES SHALL HAVE INLET FILTERS INSTALLED FOR EROSION CONTROL

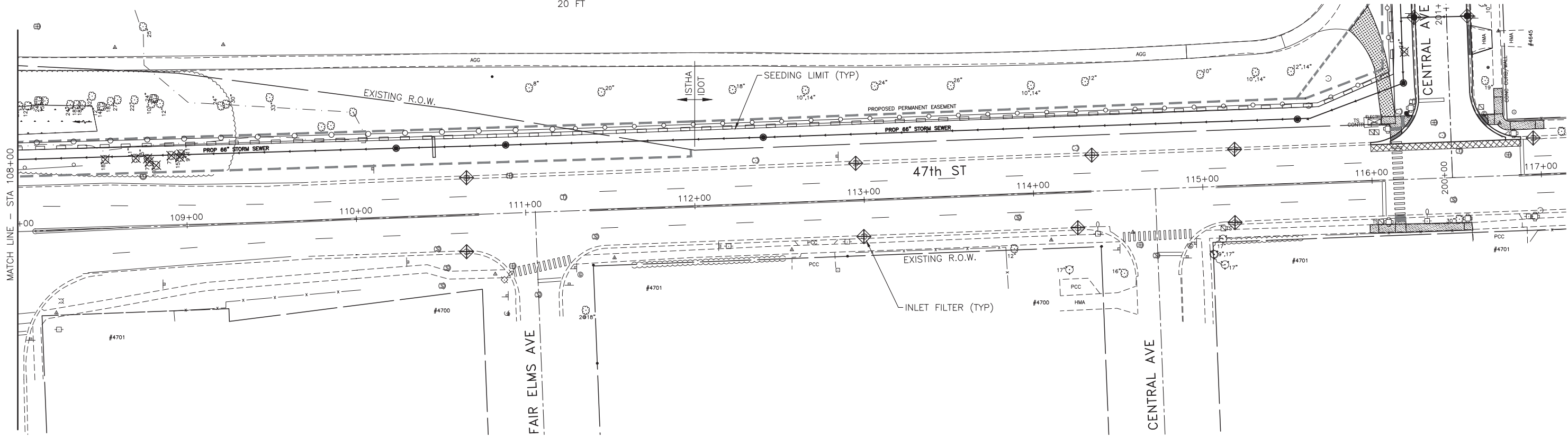
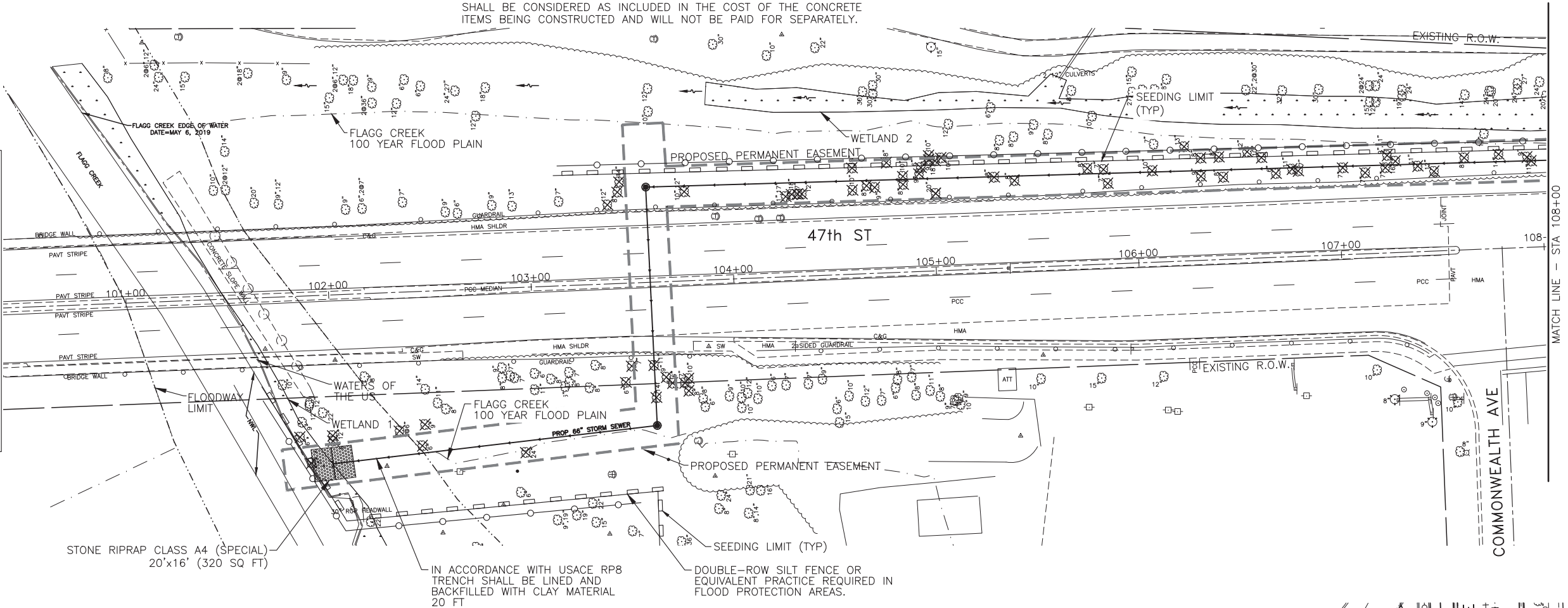
- NOTES:
- 1) TEMPORARY CONCRETE WASHOUT AREA FACILITY SHALL BE AT LOCATIONS SHOWN OR AS DESIGNATED BY THE ENGINEER. THIS WORK SHALL BE CONSIDERED AS INCLUDED IN THE COST OF THE CONCRETE ITEMS BEING CONSTRUCTED AND WILL NOT BE PAID FOR SEPARATELY.

PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	AT	
	BY	
	FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHKD	
	NO.	

**LEGEND**

- TEMPORARY CONCRETE WASHOUT FACILITY
- PERIMETER EROSION BARRIER (P.E.B.)
- CONSTRUCTION FENCE
- TREE REMOVAL
- INLET FILTERS (EXISTING DRAINAGE STRUCTURES)
- INLET FILTERS (PROPOSED DRAINAGE STRUCTURES)
- DRAINAGE STRUCTURES



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DATE	— 10/11/2021	REVISED	—

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL PLAN  
 47th STREET**

SCALE: 1"=30' SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. 101+00 TO STA. 116+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MUN 2003A	16-00094-00-PV	COOK	88	33
				CONTRACT NO. 61H47
ILLINOIS FED. AID PROJECT				





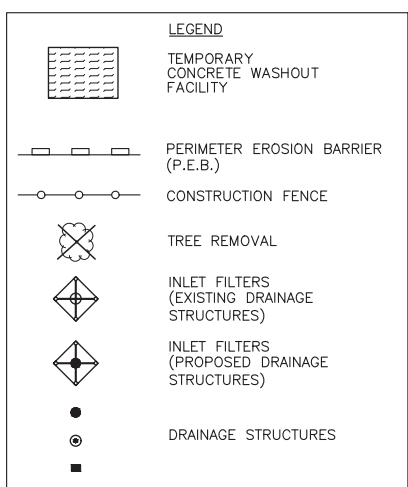
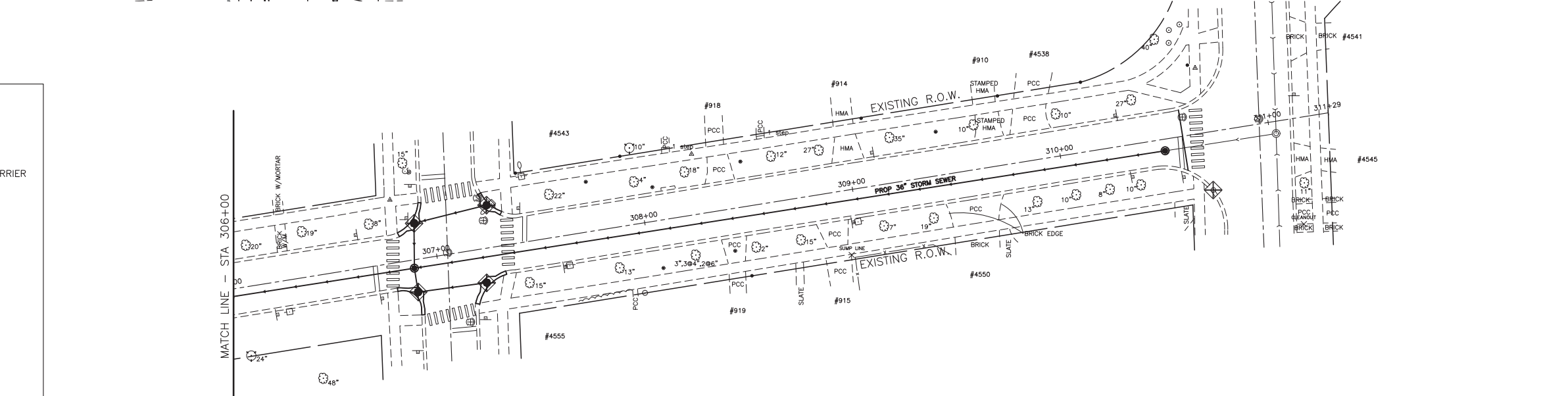
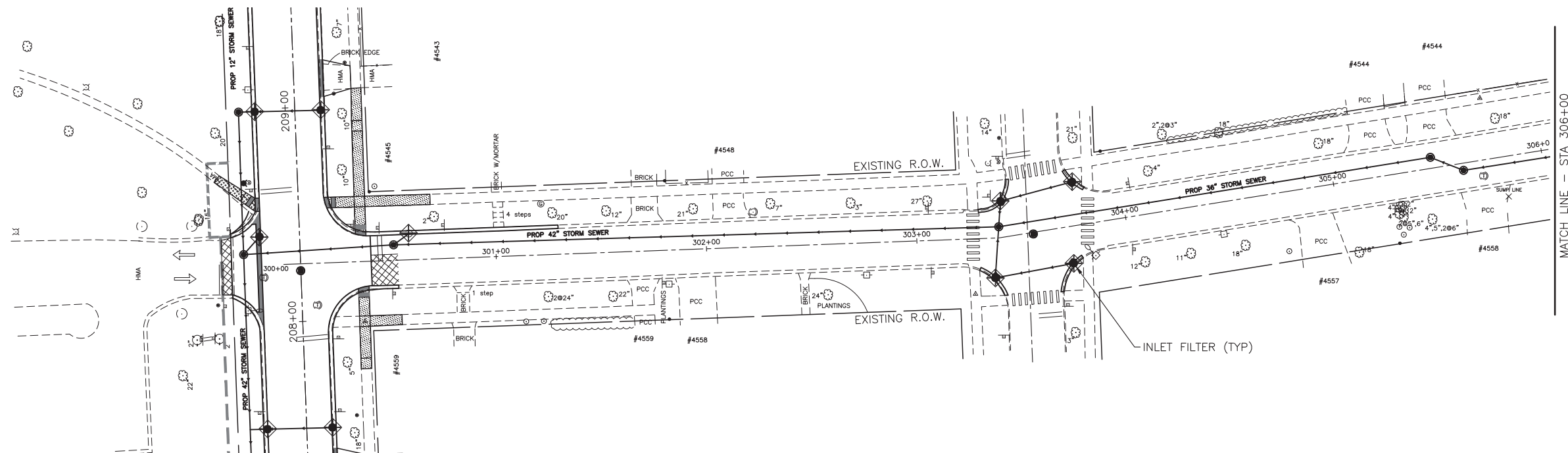
TEMPORARY EROSION CONTROL NOTES

NOTES :

- 1) FINE GRADING OF PARKWAY TO PROVIDE POSITIVE DRAINAGE SHALL BE INCLUDED IN THE COST OF SODDING, SPECIAL AND WILL NOT BE PAID FOR SEPERATELY.
- 2) ALL EXISTING AND PROPOSED OPEN LID STRUCTURES SHALL HAVE INLET FILTERS INSTALLED FOR EROSION CONTROL

1. SEDIMENT AND EROSION CONTROL DEVICES SHALL BE FUNCTIONAL BEFORE LAND IS OTHERWISE DISTURBED ON THE SITE.
2. THE SURFACE OF STRIPPED AREAS SHALL BE PERMANENTLY OR TEMPORARILY PROTECTED FROM SOIL EROSION WITHIN 15 DAYS AFTER FINAL GRADE IS REACHED. STRIPPED AREAS NOT AT FINAL GRADE THAT WILL REMAIN UNDISTURBED FOR MORE THAN 15 DAYS AFTER INITIAL DISTURBANCE SHALL BE PROTECTED FROM EROSION.
3. IF A STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN 3 DAYS, THEN SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSTALLED DURING CONSTRUCTION.
4. STORM SEWER INLETS SHALL BE PROTECTED WITH SEDIMENT TRAPPING OR FILTER CONTROL DEVICES DURING CONSTRUCTION.
5. THE QUANTITIES SHOWN FOR ALL EROSION CONTROL MEASURES INCLUDE THE INSTALLATION, MAINTENANCE, AND REMOVAL OF THE MEASURE.
6. THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES IN SERVICEABLE CONDITION AT ALL TIMES. EROSION CONTROL MEASURES WILL BE INSPECTED ON A WEEKLY BASIS AND WITHIN 24 HOURS OF ANY STORM EXCEEDING 0.5 INCHES OF PRECIPITATION OR EQUIVALENT SNOWFALL.
7. ALL CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM STORM WATER PERMIT FOR THIS PROJECT.
8. AS WORK PROGRESSES, ALL SLOPES 3:1 OR GREATER SHALL RECEIVE TEMPORARY EROSION CONTROL SEEDING AND EROSION CONTROL BLANKET IMMEDIATELY. ALL FLATTER AREAS THAT DO NOT HAVE A COVER OF VEGETATION, AND WHERE NO FURTHER WORK IS TO OCCUR FOR 14 DAYS OR MORE, SHALL BE TEMPORARILY SEEDED WITHIN SEVEN (7) CALENDAR DAYS UNLESS OTHERWISE DIRECTED BY THE ENGINEER. A SUFFICIENT QUANTITY OF TEMPORARY EROSION CONTROL SEEDING IS INCLUDED TO COVER THE LIMITS OF PERMANENT LANDSCAPING.
9. TEMPORARY DITCH CHECKS SHALL BE PLACED IMMEDIATELY AFTER DITCH GRADING (OR CLEANING AND REGRADING) IS COMPLETED.

10. ALL PROPOSED OPEN LID DRAINAGE STRUCTURES SHALL BE PROTECTED AS DIRECTED BY THE ENGINEER WITH INLET FILTERS, AND THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR "INLET FILTERS". ALL OPEN END CULVERTS SHALL BE PROTECTED AS DIRECTED BY THE ENGINEER, WHICH WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "INLET AND PIPE PROTECTION". "INLET AND PIPE PROTECTION" SHALL BE COMPRISED OF DITCH CHECKS, TEMPORARY SEEDING AND TEMPORARY EROSION CONTROL BLANKET. STRAW BALES AND SILT FENCE SHALL NOT BE USED AS NLET AND PIPE PROTECTION.
11. WATER PUMPED OR OTHERWISE DISCHARGED FROM THE SITE DURING CONSTRUCTION DEWATERING SHALL BE FILTERED.
12. ANY SOIL, MUD OR DEBRIS WASHED, TRACKED, OR DEPOSITED ONTO THE STREET SHALL BE REMOVED PRIOR TO THE END OF THE WORK DAY.
13. SILT FENCE IS NOT REQUIRED WHERE THE PERIMETER IS HIGHER THAN THE WORK ZONE, AND SILT FENCE SHALL NOT BE INSTALLED ACROSS CONCENTRATED FLOW, OR ACROSS CONTOURS WITHOUT J-HOOKS (HIGHWAY STANDARD 280001). IN AREAS OF CONCENTRATED FLOW, TEMPORARY DITCH CHECKS AREA A SUITABLE ALTERNATIVE PERIMETER EROSION BARRIER IN PLACE OF THE SILT FENCE.
14. PORTABLE TOILETS SHALL BE PLACED AWAY FROM INLETS AND WATER COURSES.
15. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES AREA NO LONGER NEEDED AS DIRECTED BY THE ENGINEER.
16. THE EROSION CONTROL MEASURES INDICATED IN THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER OR GOVERNING AGENCY.
17. TEMPORARY CONCRETE WASHOUT AREA FACILITY SHALL BE AT LOCATIONS DESIGNATED BY THE ENGINEER AND WILL NOT BE PAID FOR SEPARATELY BUT INCLUDED IN THE COST OF THE ITEMS BEING POURED.
18. MAINTENANCE OF TEMPORARY EROSION CONTROL SYSTEMS WILL NOT BE PAID FOR SEPARATELY, BUT INCLUDED IN THE COST OF TEMPORARY EROSION CONTROL ITEM.
19. THE CONTRACTOR IS RESPONSIBLE FOR THE CONTROL OF DUST AT ALL TIMES DURING THE DURATION OF THE PROJECT, 24 HOURS PER DAY, 7 DAYS PER WEEK, INCLUDING NON-WORKING HOURS, WEEKENDS AND HOLIDAYS. THIS WORK SHALL BE CONSIDERED COMPLETE AFTER THE COMPLETION OF ALL PERMANENT EROSION CONTROL MEASURES REQUIRED FOR THE PROJECT, AND AFTER ALL TEMPORARY AND PERMANENT SEEDING HAS TAKEN PLACE. WORK ON THIS PROJECT SHALL BE CONDUCTED IN A MANNER THAT WILL NOT RESULT IN GENERATING EXCESSIVE AIRBORNE PARTICULATE MATTER OR NUISANCE DUST CONDITIONS.



PLAN	REVISIONS	DATE
NO.	BY	
	CHECKED	
	DATE	

PROFILE	REVISIONS	DATE
NO.	BY	
	CHECKED	
	DATE	

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DRAWN	— JY	REVISED	—
CHECKED	— JCZ	REVISED	—
DATE	— 10/11/2021	REVISED	—

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>EROSION AND SEDIMENT CONTROL PLAN ELM STREET</b>		
SCALE: 1"=30'	SHEET NO. ___ OF ___ SHEETS	STA. 300+00 TO STA. 311+00

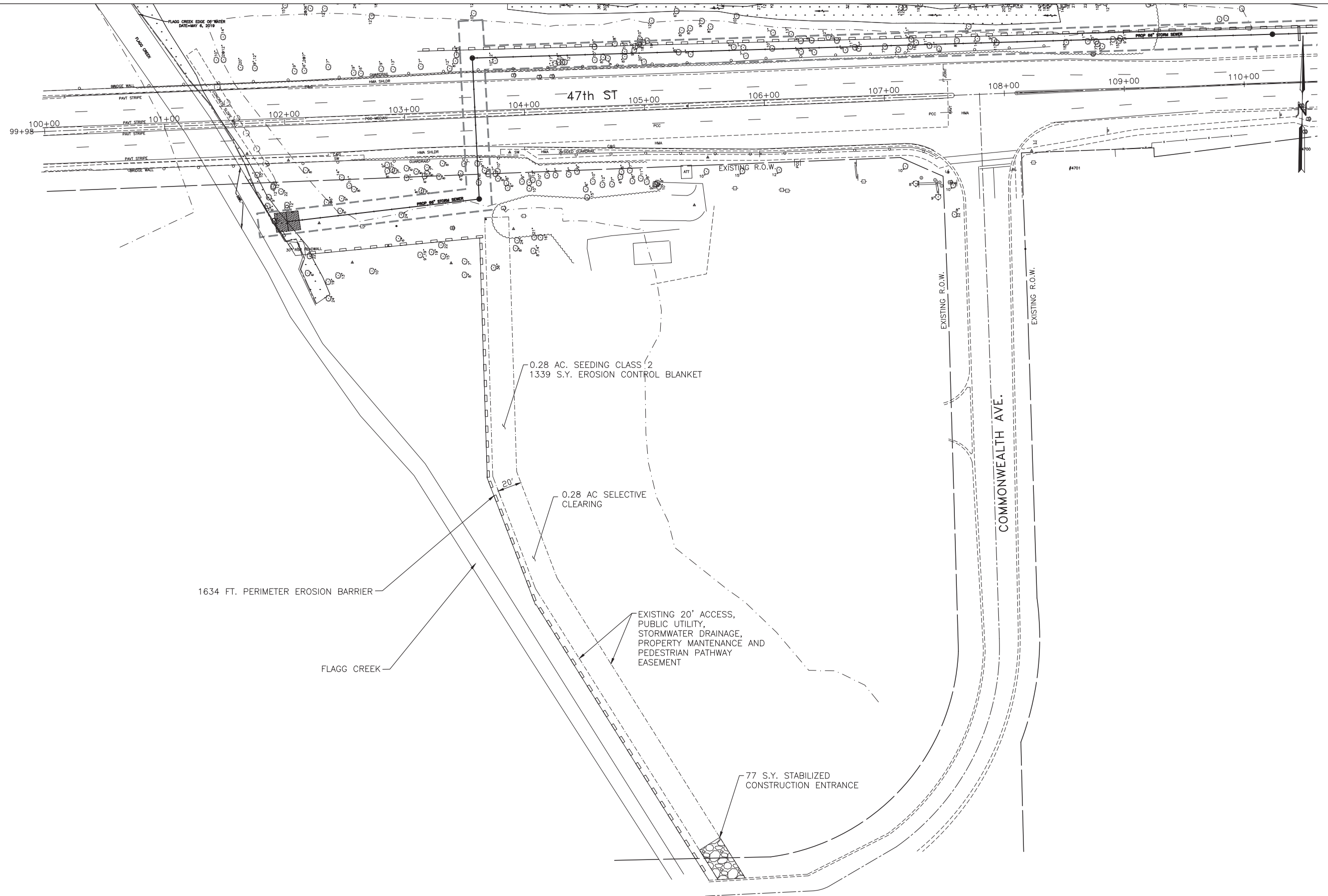
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MUN 2003A	16-00094-00-PV	COOK	88	35
CONTRACT NO. 61H47				
ILLINOIS FED. AID PROJECT				





PLAN	SURVEYED	DATE
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PROFILE	SURVEYED	DATE
NOTE BOOK NO.	GRADES CHECKED	
	STRUCTURE NOTATIONS CHKD	
	BY	
	DATE	



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DRAWN	— JY	REVISED	—
CHECKED	— JCZ	REVISED	—
DATE	— 10/11/2021	REVISED	—

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

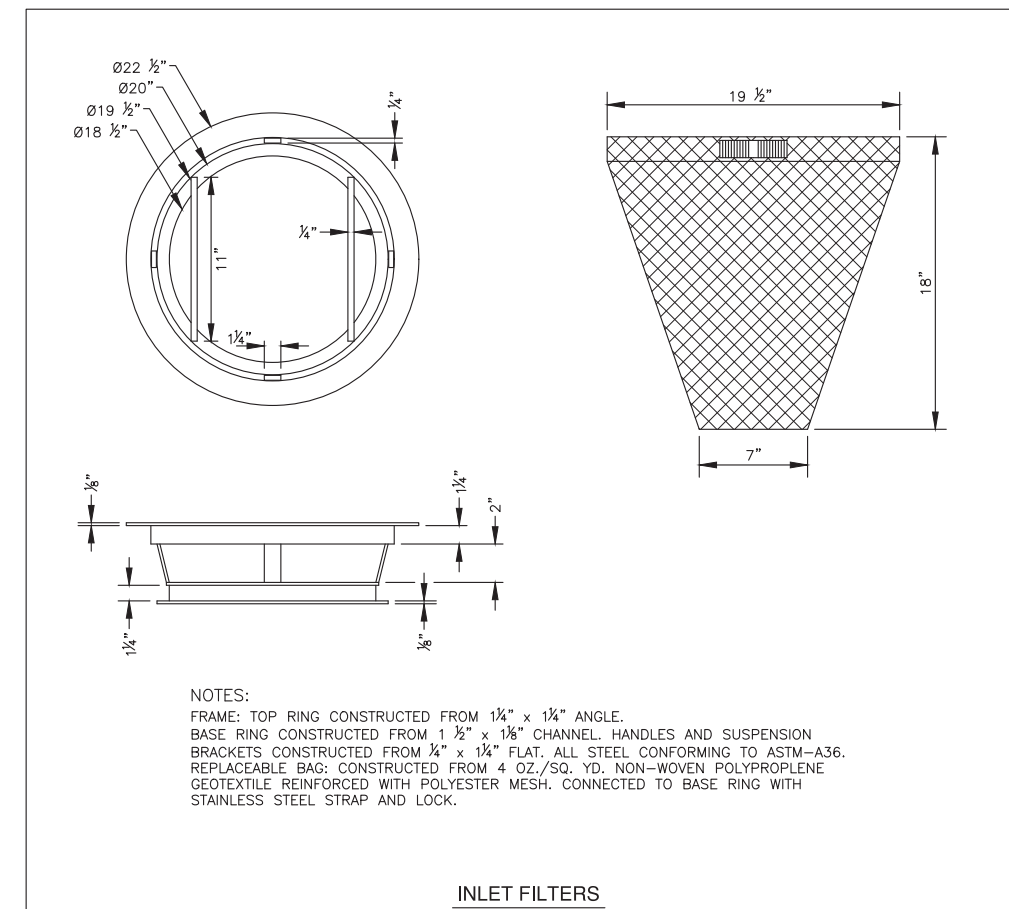
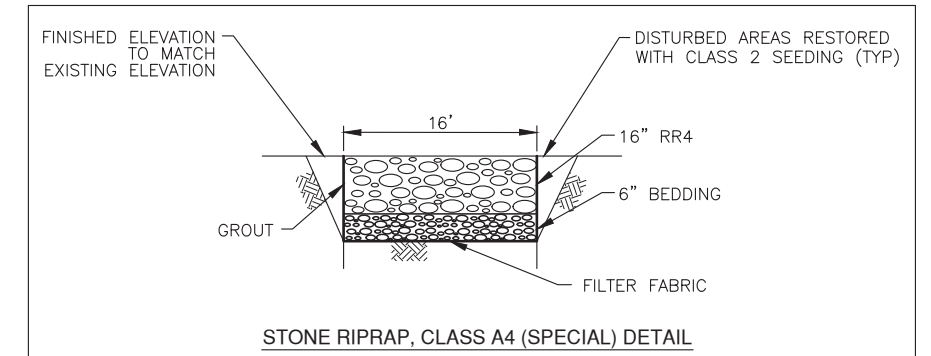
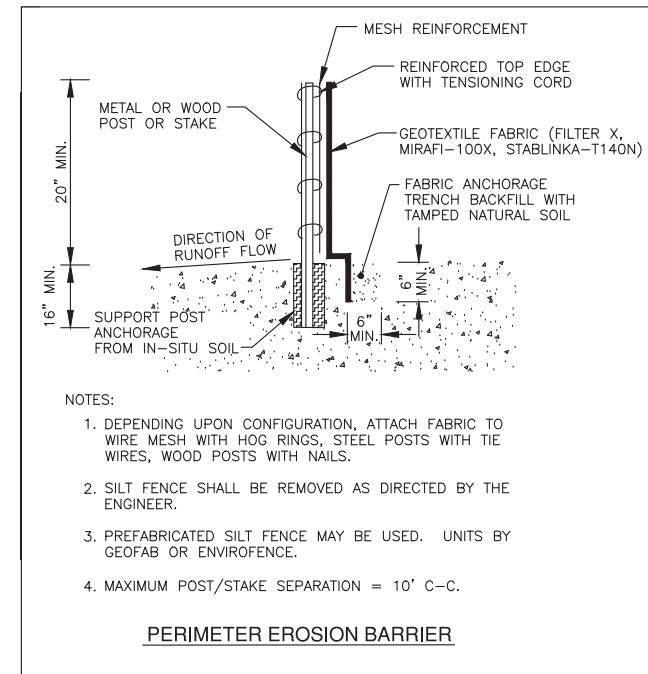
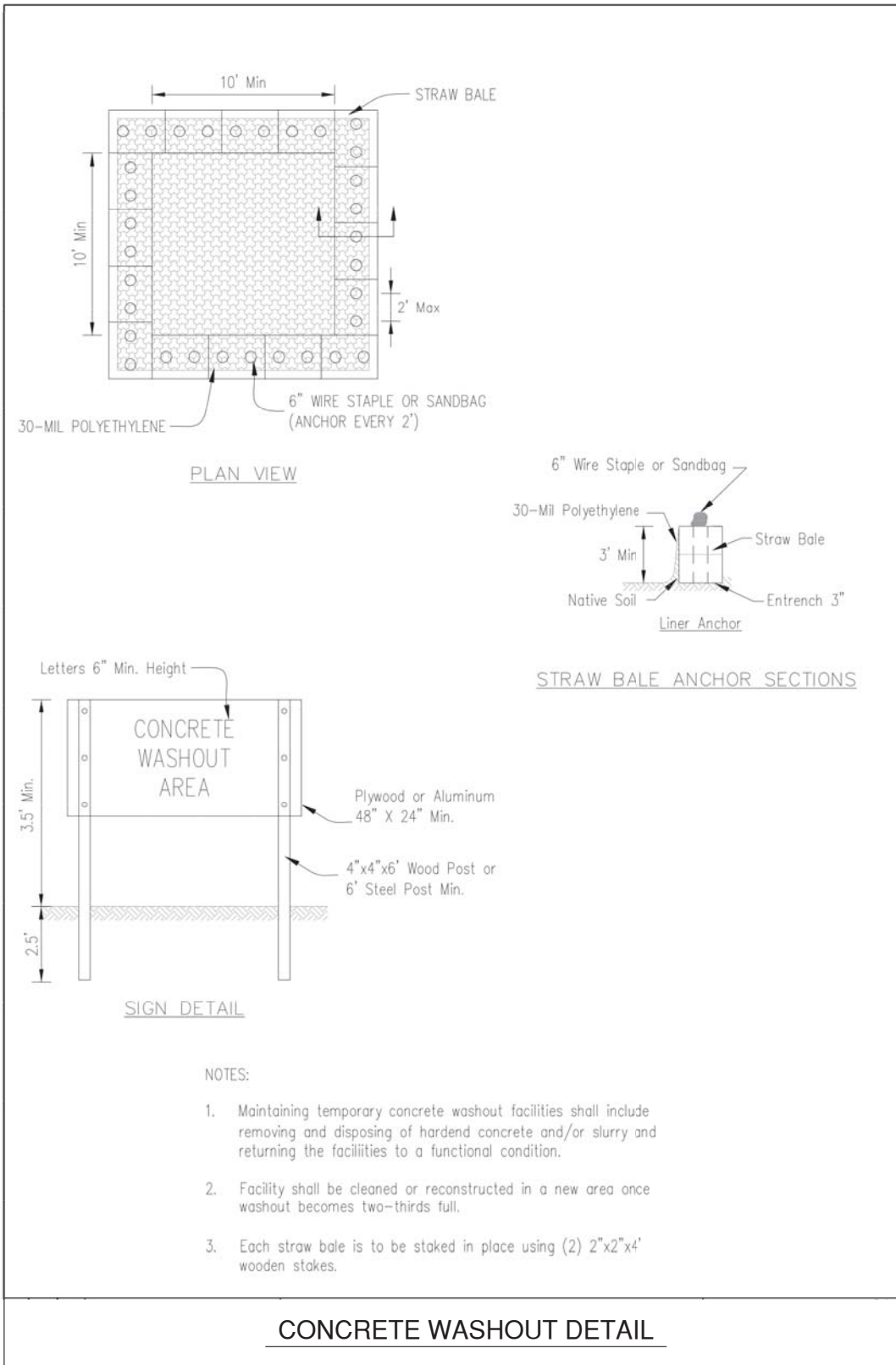
**EROSION AND SEDIMENT CONTROL AND CONSTRUCTION ACCESS ROUTE  
 SOUTH SIDE OF 47th STREET**

SCALE: 1"=30'      SHEET NO. \_\_\_ OF \_\_\_ SHEETS      STA. 101+00 TO STA. 116+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MUN 2003A	16-00094-00-PV	COOK	88	36
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H47	

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DESIGNED	— JY	REVISED	—
DRAWN	— SMP	REVISED	—
CHECKED	— JCZ	REVISED	—
DATE	— 10/11/2021	REVISED	—

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MUN 2003A	16-00094-00-PV	COOK	88	37
CONTRACT NO. 61H47			ILLINOIS FED. AID PROJECT	

NOTES:

1. THE CONTRACTOR SHALL ERECT A TEMPORARY FENCE AROUND ALL TREES WITHIN THE CONSTRUCTION AREA TO ESTABLISH A "TREE PROTECTION ZONE" BEFORE ANY WORK BEGINS OR ANY MATERIAL IS DELIVERED TO THE JOBSITE. NO WORK IS TO BE PERFORMED (OTHER THAN ROOT PRUNING), MATERIALS STORED OR VEHICLES DRIVEN OR PARKED WITHIN THE "TREE PROTECTION ZONE". REMOVE PROTECTIVE TEMPORARY FENCE ONLY AFTER ALL CONSTRUCTION WORK HAS BEEN COMPLETED.


2. THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATING NEAR ANY AND ALL EXISTING ITEMS WHICH WILL NOT BE REMOVED. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE.

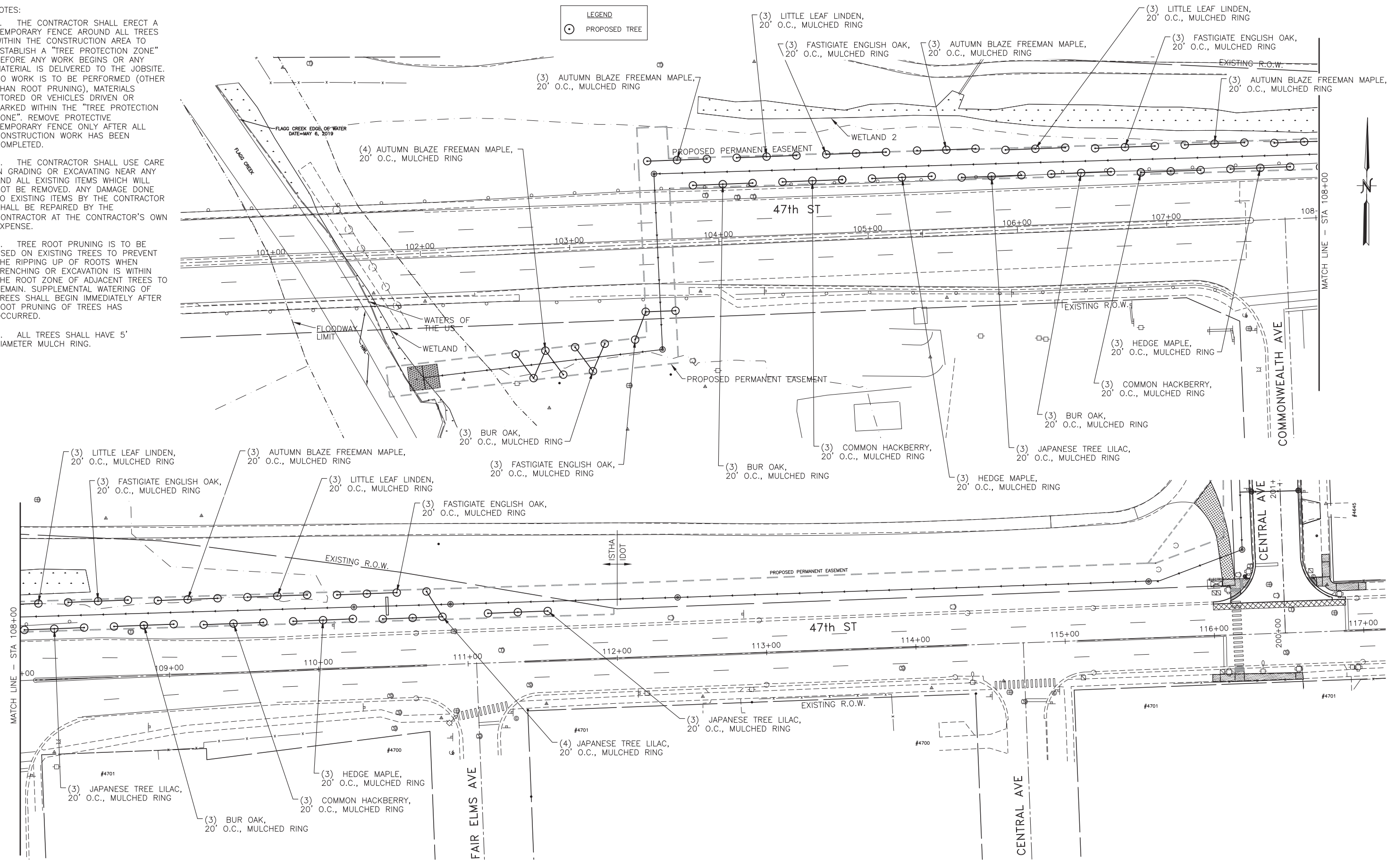
3. TREE ROOT PRUNING IS TO BE USED ON EXISTING TREES TO PREVENT THE RIPPING UP OF ROOTS WHEN TRENCHING OR EXCAVATION IS WITHIN THE ROOT ZONE OF ADJACENT TREES TO REMAIN. SUPPLEMENTAL WATERING OF TREES SHALL BEGIN IMMEDIATELY AFTER ROOT PRUNING OF TREES HAS OCCURRED.

4. ALL TREES SHALL HAVE 5' DIAMETER MULCH RING.

PLAN	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHKD	
	NOTE BOOK NO.	
	BY	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHKD	
	NOTE BOOK NO.	
	BY	

LEGEND  
 PROPOSED TREE



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DATE	— 10/11/2021	REVISED	—

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

**TREE REPLACEMENT PLAN**  
**47th STREET**  
 SCALE: 1"=30' SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. 101+00 TO STA. 116+00

F.A.U. RTE. MUN 2003A	SECTION 16-00094-00-PV	COUNTY COOK	TOTAL SHEETS 88	SHEET NO. 38
CONTRACT NO. 61H47				
ILLINOIS FED. AID PROJECT				



DATE	
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PROFILE	
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DATE	
BY	
PROFILE	
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DATE	
BY	
PLAN	
NO.	

**LEGEND**

- [A] DRAINAGE AND UTILITY STRUCTURES TO BE ADJUSTED
- [A] DRAINAGE AND UTILITY STRUCTURES TO BE ADJUSTED WITH NEW FRAME & LID
- [R] DRAINAGE AND UTILITY STRUCTURES TO BE RECONSTRUCTED
- [R] DRAINAGE AND UTILITY STRUCTURES TO BE RECONSTRUCTED WITH NEW FRAME & LID
- [P] PLUG EXISTING PIPE
- [F] FILLING EXISTING STRUCTURE
- [REM] DRAINAGE AND UTILITY STRUCTURES TO BE REMOVED
- STORM SEWER TO BE REMOVED

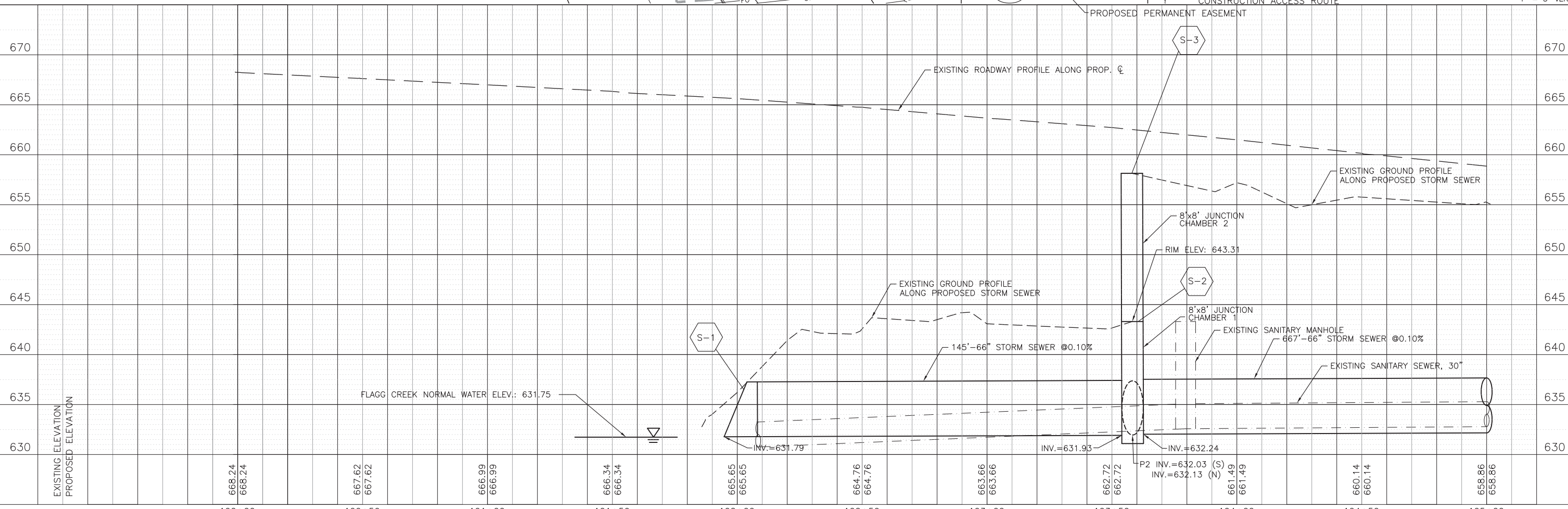
NOTES:  
 NO IN STREAM WORK SHALL BE PERFORMED BETWEEN APRIL 15 AND JUNE 15 TO AVOID ADVERSELY IMPACTING THE SPAWNING SEASON OF THE IOWA DARTER  
 EQUIPMENT AND MATERIAL STORAGE STAGING AREAS MAY NOT OCCUR IN WETLANDS OR WATERS OF THE U.S. (WOUS). SAME RULES APPLY TO FLOODWAY AND FLOODPLAIN.

**STORM SEWER**

NO	LENGTH (FOOT)	MATERIAL	TYPE	DIA. (IN)	SLOPE (%)	TBF (CU. YD)
P-1	145	SS, CLA	2	66	0.10%	0
P-2	90	SS, CL A, JKD	5	66	0.10%	0
P-2A	6	SS, CLA	5	66	0.10%	0
P-2B	20	SS, CLA	5	66	0.10%	0
P-3	667	SS, CLA	4	66	0.10%	0

**STORM SEWER STRUCTURES**

STRUCT. NO.	STATION	OFFSET	STRUCTURE TYPE	INVERT				
				RIM	NORTH	SOUTH	EAST	WEST
S-1	101+86	84.0' RT	PRC FLAR END SEC 66	637.78	-	-	631.79	-
S-2	103+59	71.0' RT	8' X 8' JUNCTION CHAMBER 1	643.31	632.03	-	-	631.93
S-3	103+58	47.0' LT	8' X 8' JUNCTION CHAMBER 2	658.15	-	632.13	632.24	-



FLAGG CREEK REGULATORY FLOOD PLAIN ELEV.: 642.2

FLAGG CREEK EDGE OF WATER DATE=MAY 6, 2019

FLAGG CREEK

FLAGG CREEK 100 YEAR FLOOD PLAIN

47th ST

PROJECT BEGINS STA. 101+74.17 47th STREET

STONE RIPRAP CLASS A4, SPECIAL, 36 SQ YD  
 FILTER FABRIC, 36 SQ YD

SCALES:  
 1" = 20' HOR  
 1" = 5' VER

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DATE - 01/14/2022	REVISED -

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

**DRAINAGE AND UTILITY PLANS**  
**47th STREET**

SCALE: 1"=20' SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. 100+00 TO STA. 105+00

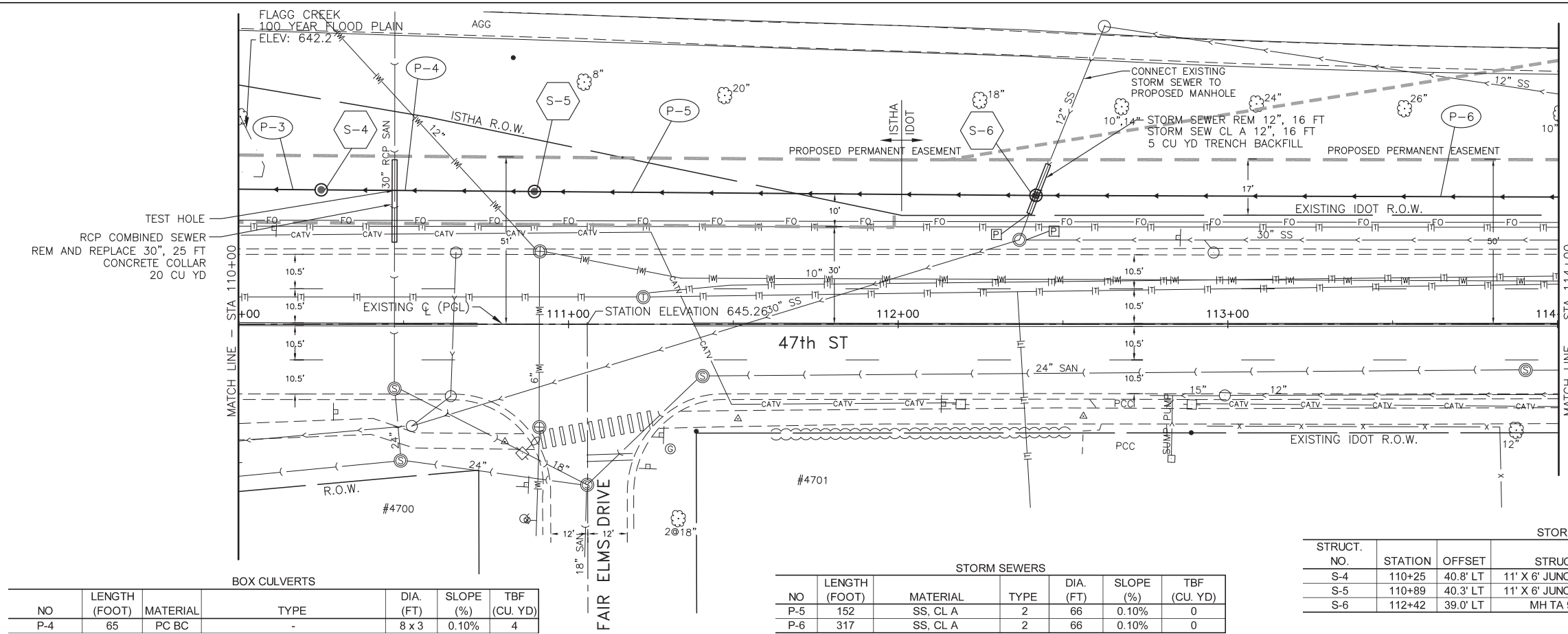
F.A.U. RTE. 2003A	SECTION 16-00094-00-PV	COUNTY COOK	TOTAL SHEETS 88	SHEET NO. 39
CONTRACT NO. 61H47			ILLINOIS FED. AID PROJECT	





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NOTE BOOK	
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DATE	
NOTATIONS	



**LEGEND**

- [A] DRAINAGE AND UTILITY STRUCTURES TO BE ADJUSTED
- [A] DRAINAGE AND UTILITY STRUCTURES TO BE ADJUSTED WITH NEW FRAME & LID
- [R] DRAINAGE AND UTILITY STRUCTURES TO BE RECONSTRUCTED
- [R] DRAINAGE AND UTILITY STRUCTURES TO BE RECONSTRUCTED WITH NEW FRAME & LID
- [P] PLUG EXISTING PIPE
- [F] FILLING EXISTING STRUCTURE
- [REM] DRAINAGE AND UTILITY STRUCTURES TO BE REMOVED
- STORM SEWER TO BE REMOVED

**BOX CULVERTS**

NO	LENGTH (FOOT)	MATERIAL	TYPE	DIA. (FT)	SLOPE (%)	TBF (CU. YD)
P-4	65	PC BC	-	8 x 3	0.10%	4

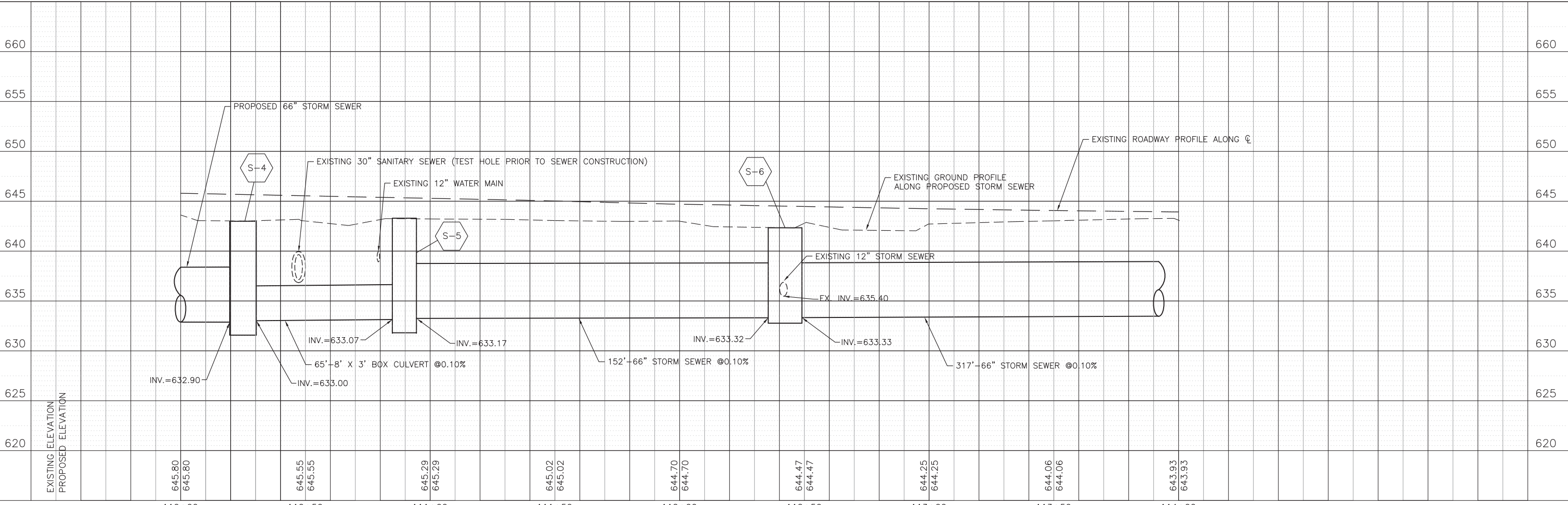
**STORM SEWERS**

NO	LENGTH (FOOT)	MATERIAL	TYPE	DIA. (FT)	SLOPE (%)	TBF (CU. YD)
P-5	152	SS, CL A	2	66	0.10%	0
P-6	317	SS, CL A	2	66	0.10%	0

**STORM SEWER STRUCTURES**

STRUCT. NO.	STATION	OFFSET	STRUCTURE TYPE	RIM	INVERT			
					NORTH	SOUTH	EAST	WEST
S-4	110+25	40.8' LT	11' X 6' JUNCTION CHAMBER 3	642.99	-	-	633.00	632.90
S-5	110+89	40.3' LT	11' X 6' JUNCTION CHAMBER 3	643.21	-	-	633.17	633.07
S-6	112+42	39.0' LT	MH TA 9' DIA T1F CL	642.32	635.40	-	633.33	633.32

SCALE: 1" = 20' HOR  
1" = 5' VER

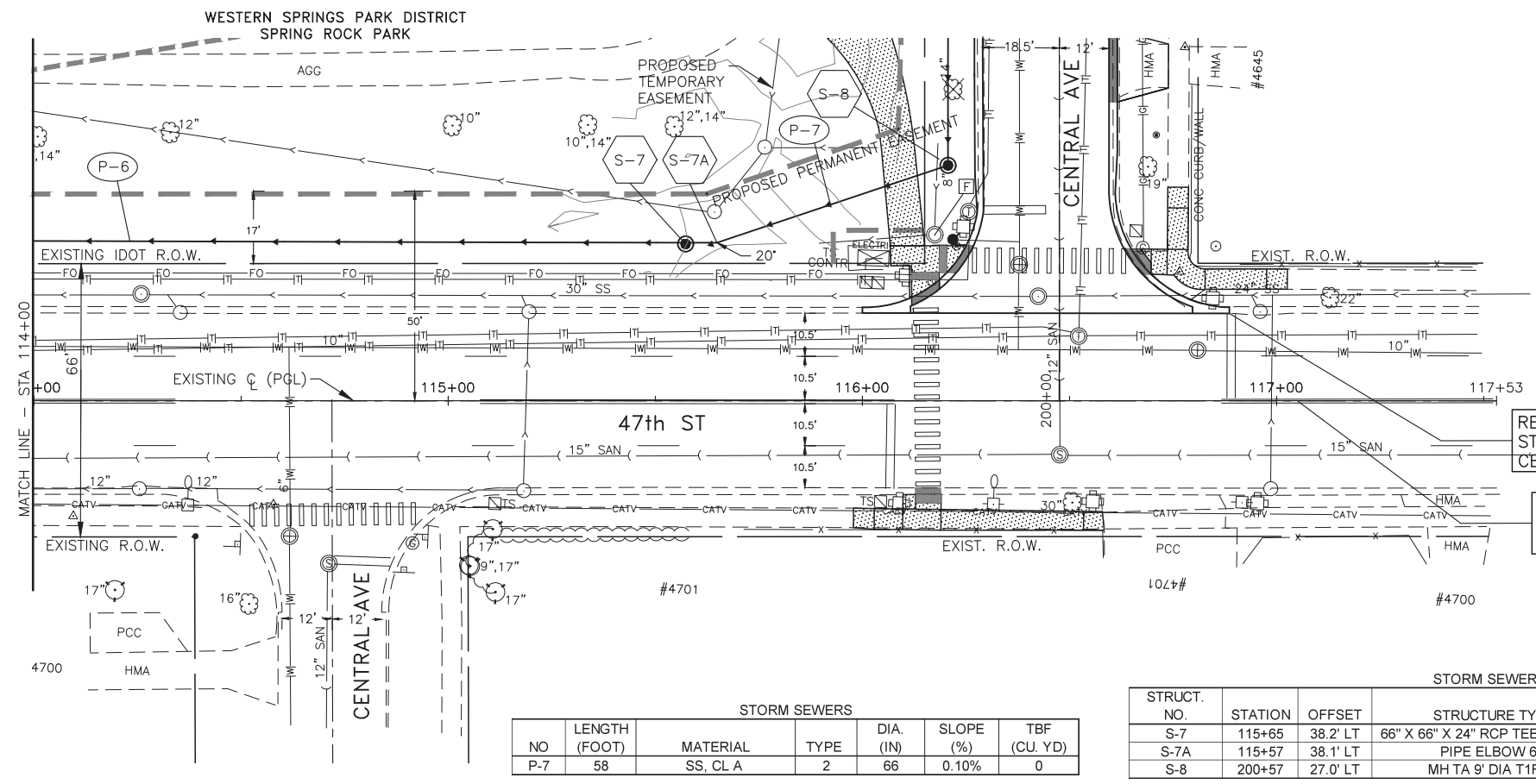


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PROFILE	SURVEYED	DATE
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**LEGEND**

- [A] DRAINAGE AND UTILITY STRUCTURES TO BE ADJUSTED
- (A) DRAINAGE AND UTILITY STRUCTURES TO BE ADJUSTED WITH NEW FRAME & LID
- [R] DRAINAGE AND UTILITY STRUCTURES TO BE RECONSTRUCTED
- (R) DRAINAGE AND UTILITY STRUCTURES TO BE RECONSTRUCTED WITH NEW FRAME & LID
- [P] PLUG EXISTING PIPE
- [F] FILLING EXISTING STRUCTURE
- [REM] DRAINAGE AND UTILITY STRUCTURES TO BE REMOVED
- STORM SEWER TO BE REMOVED



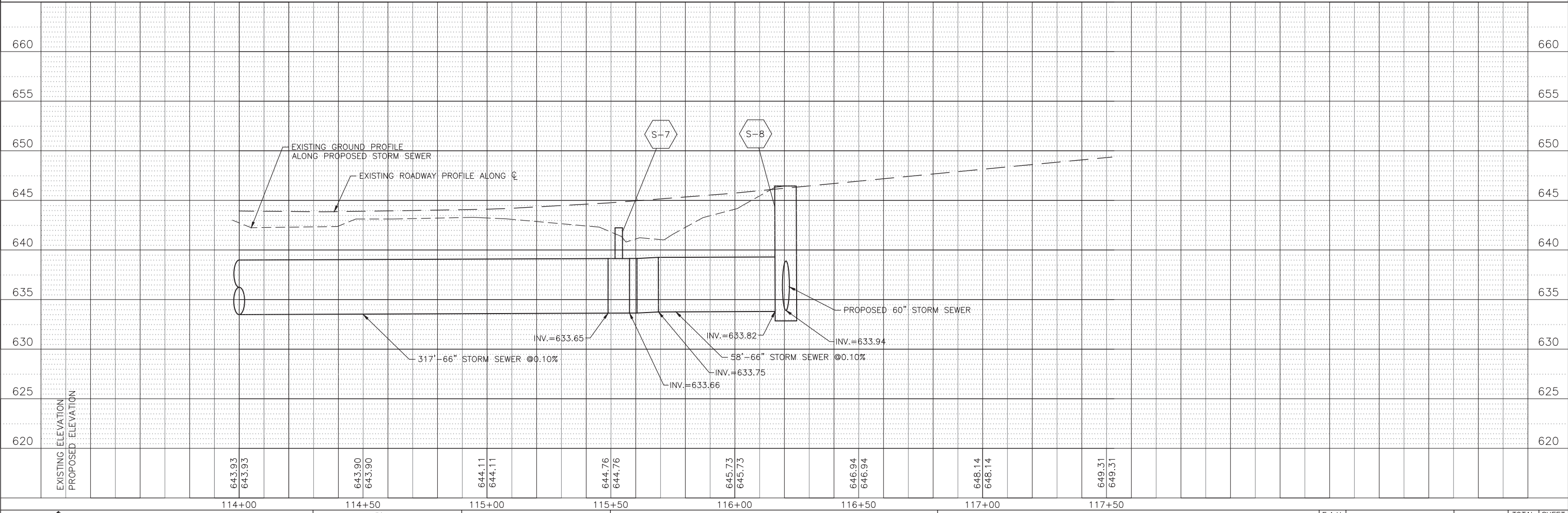
**STORM SEWERS**

NO	LENGTH (FOOT)	MATERIAL	TYPE	DIA. (IN)	SLOPE (%)	TBF (CU. YD)
P-7	58	SS, CL A	2	66	0.10%	0

**STORM SEWER STRUCTURES**

STRUCT. NO.	STATION	OFFSET	STRUCTURE TYPE	RIM	INVERT					
					NORTH	SOUTH	EAST	WEST	SW	NE
S-7	115+65	38.2' LT	66" X 66" X 24" RCP TEE W/T1 F&G	642.30	-	-	633.66	633.65	-	-
S-7A	115+57	38.1' LT	PIPE ELBOW 66"	642.30	-	-	-	633.66	-	633.76
S-8	200+57	27.0' LT	MH TA 9' DIA T1F CL	646.45	633.94	-	-	-	633.82	-

SCALES:  
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1" = 5' VER



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CHECKED - JCZ	REVISED -
DATE - 10/11/2021	REVISED -

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

**DRAINAGE AND UTILITY PLANS**  
**47th STREET**  
 SCALE: 1"=20' SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. 114+00 TO STA. 117+53

F.A.U. RTE. MUN 2003A	SECTION 16-00094-00-PV	COUNTY COOK	TOTAL SHEETS 88	SHEET NO. 42
CONTRACT NO. 61H47			ILLINOIS FED. AID PROJECT	



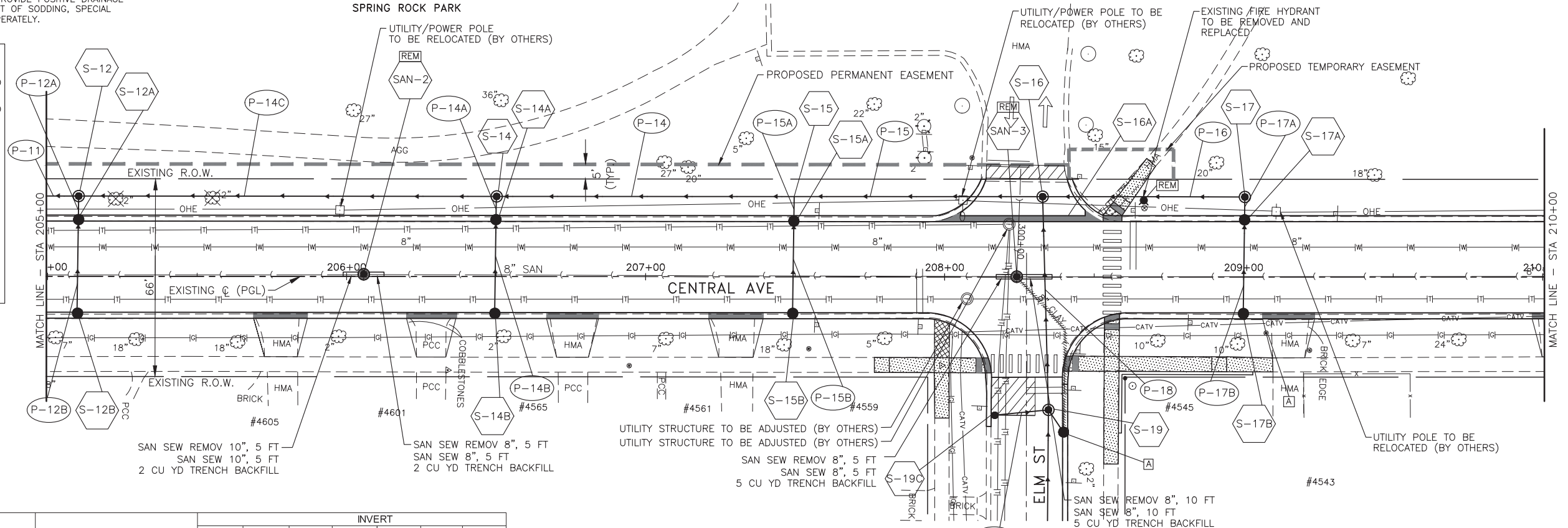




NOTES :  
 1) FINE GRADING OF PARKWAY TO PROVIDE POSITIVE DRAINAGE SHALL BE INCLUDED IN THE COST OF SODDING, SPECIAL AND WILL NOT BE PAID FOR SEPERATELY.

WESTERN SPRINGS PARK DISTRICT  
 SPRING ROCK PARK

- LEGEND**
- [A] DRAINAGE AND UTILITY STRUCTURES TO BE ADJUSTED
  - [R] DRAINAGE AND UTILITY STRUCTURES TO BE RECONSTRUCTED
  - [RE] DRAINAGE AND UTILITY STRUCTURES TO BE REMOVED
  - ////// STORM SEWER TO BE REMOVED
  - STORM SEWER UNDERDRAIN



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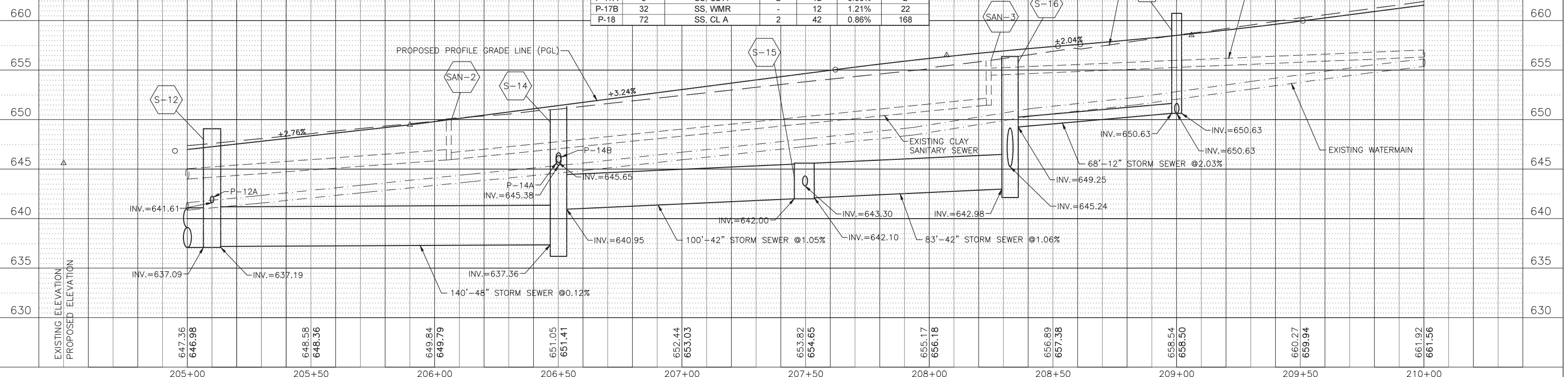
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STRUCT. NO.	STATION	OFFSET	STRUCTURE TYPE	INVERT						
				RIM	NORTH	SOUTH	EAST	WEST	NE	SW
675	S-12	205+10	MH TA 7' DIA T1F CL	649.08	637.19	637.09	641.61	-	-	-
	S-12A	205+10	CB TA 4' DIA T3V F&G	646.89	-	-	641.75	641.65	-	-
	S-12B	205+10	CB TC T3V F&G	647.02	-	-	-	641.91	-	-
	S-14	206+50	MH TA 6' DIA T1F CL	652.98	640.95	637.36	645.38	-	-	-
670	S-14A	206+50	CB TA 4' DIA T3V F&G	650.84	-	-	645.65	645.42	-	-
	S-14B	206+50	CB TC T3V F&G	650.95	-	-	-	645.81	-	-
	S-15	207+50	42" X 42" X 12" RCP TEE	-	642.10	642.00	643.30	-	-	-
	S-15A	207+49	CB TA 4' DIA T3V F&G	653.89	-	-	648.19	643.35	-	-
	S-15B	207+49	CB TC T3V F&G	654.02	-	-	-	648.35	-	-
665	S-16	208+33	MH TA 6' DIA T1F CL	656.37	649.25	642.98	645.24	-	653.33	-
	S-17	209+00	MH TA 4' DIA T1F CL	660.10	653.13	653.13	650.63	-	-	-
	S-17A	209+00	CB TA 4' DIA T3V F&G	658.38	-	-	651.24	650.67	-	-
	S-17B	209+00	CB TC T3V F&G	658.52	-	-	-	651.63	-	-

NO	LENGTH (FOOT)	MATERIAL	TYPE	DIA. (IN)	SLOPE (%)	TBF (CU. YD)
P-12A	8	SS, CL A	2	12	0.50%	2
P-12B	32	SS, WMR	-	12	0.50%	12
P-14	100	SS, CL A	2	42	1.05%	0
P-14A	8	SS, CL A	2	12	0.50%	2
P-14B	32	SS, WMR	-	12	0.50%	25
P-14C	140	SS, CL A	2	48	0.12%	0
P-15	83	SS, CL A	2	42	1.06%	91
P-15A	8	SS, CL A	3	12	0.50%	4
P-15B	32	SS, WMR	-	12	0.50%	28
P-16	68	SS, CL A	2	12	2.03%	17
P-17A	8	SS, CL A	2	12	0.50%	2
P-17B	32	SS, WMR	-	12	1.21%	22
P-18	72	SS, CL A	2	42	0.86%	168

STRUCT. NO.	STATION	OFFSET	STRUCTURE TYPE	RIM	INVERT			
					NORTH	SOUTH	EAST	WEST
SAN-2	206+06	0.8' LT	MH SANTA 4' DIA T1F CL	650.10	645.96	645.95	-	-
SAN-3	208+24	0.0' LT	MH SANTA 4' DIA T1F CL	656.76	651.42	651.40	-	651.47

SCALES:  
 1" = 20' HOR  
 1" = 5' VER



EXISTING ELEVATION	647.36	646.98	648.58	648.36	649.84	649.79	651.05	651.41	652.44	653.03	653.82	654.65	655.17	656.18	656.89	657.38	658.54	658.50	660.27	659.94	661.92	661.56
PROPOSED ELEVATION																						

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DESIGNED — JY  
 DRAWN — SMP  
 CHECKED — JCZ  
 DATE — 8/13/2021

REVISED —  
 REVISED —  
 REVISED —  
 REVISED —

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITY PLANS  
 CENTRAL AVENUE

SCALE: 1"=20'  
 SHEET NO. \_\_\_ OF \_\_\_ SHEETS  
 STA. 205+00 TO STA. 210+00

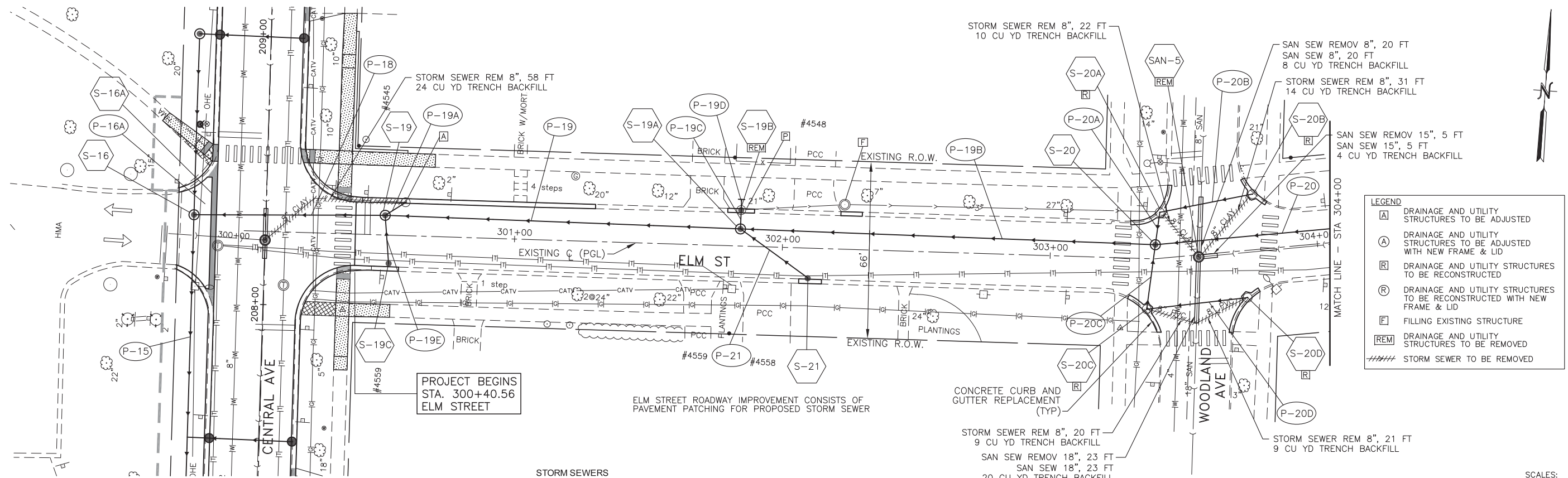
F.A.U. R.T.E. MUN 2003A	SECTION 16-00094-00-PV	COUNTY COOK	TOTAL SHEETS 88	SHEET NO. 44
CONTRACT NO. 61H47			ILLINOIS FED. AID PROJECT	





PLAN	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	ALIGNED		
	FILED		
	NO.		

PROFILE	SURVEYED	BY	DATE
	GRADES		
	CHECKED		
	STRUCTURE		
	NOTATIONS		
	CHKD		
	NO.		



LEGEND	
[A]	DRAINAGE AND UTILITY STRUCTURES TO BE ADJUSTED
[A]	DRAINAGE AND UTILITY STRUCTURES TO BE ADJUSTED WITH NEW FRAME & LID
[R]	DRAINAGE AND UTILITY STRUCTURES TO BE RECONSTRUCTED
[R]	DRAINAGE AND UTILITY STRUCTURES TO BE RECONSTRUCTED WITH NEW FRAME & LID
[F]	FILLING EXISTING STRUCTURE
[REM]	DRAINAGE AND UTILITY STRUCTURES TO BE REMOVED
////	STORM SEWER TO BE REMOVED

SANITARY SEWER STRUCTURES

STRUCT. NO.	STATION	OFFSET	STRUCTURE TYPE	RIM	INVERT			
					NORTH	SOUTH	EAST	WEST
SAN-5	303+55	0.8' RT	MH SAN TA 4' DIA, T1F, CL	657.86	653.56	653.55	653.8	-

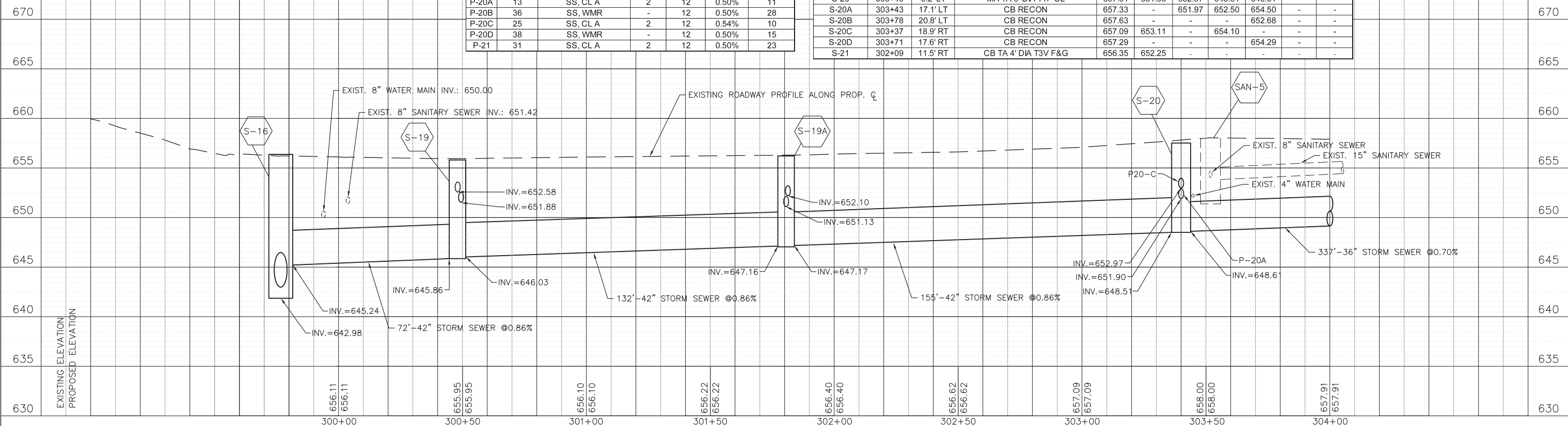
STORM SEWERS

NO	LENGTH (FOOT)	MATERIAL	TYPE	DIA. (IN)	SLOPE (%)	TBF (CU. YD)
P-19	132	SS, CL A	2	42	0.86%	227
P-19A	9	SS, CL A	1	12	0.50%	3
P-19B	155	SS, CL A	2	42	0.86%	289
P-19C	4	SS, CL A	1	12	0.50%	1
P-19D	4	SS, CL A	2	12	0.50%	0
P-19E	15	SS, CL A	2	12	0.50%	12
P-20	337	SS, CL A	2	36	0.70%	643
P-20A	13	SS, CL A	2	12	0.50%	11
P-20B	36	SS, WMR	-	12	0.50%	28
P-20C	25	SS, CL A	2	12	0.54%	10
P-20D	38	SS, WMR	-	12	0.50%	15
P-21	31	SS, CL A	2	12	0.50%	23

STORM SEWER STRUCTURES

STRUCT. NO.	STATION	OFFSET	STRUCTURE TYPE	RIM	INVERT						
					NORTH	SOUTH	EAST	WEST	NE	SW	
S-19	300+52	7.4' LT	MH TA 6' DIA T1F CL	655.81	-	651.88	646.03	645.86	652.58	-	-
S-19A	301+84	6.5' LT	MH TA 6' DIA T1 F CL	656.17	-	652.10	647.17	647.16	651.13	-	-
S-19B	301+84	13.4' LT	CB TA 4' DIA T3V F&G	655.86	651.25	-	-	-	-	651.15	-
S-19C	300+70	10.8' RT	CB TA 4' DIA T3V F&G	655.76	651.95	-	-	-	-	-	-
S-20	303+40	5.2' LT	MH TA 6' DIA T1F CL	657.51	651.90	652.97	648.61	648.51	-	-	-
S-20A	303+43	17.1' LT	CB RECON	657.33	-	651.97	652.50	654.50	-	-	-
S-20B	303+78	20.8' LT	CB RECON	657.63	-	-	-	652.68	-	-	-
S-20C	303+37	18.9' RT	CB RECON	657.09	653.11	-	654.10	-	-	-	-
S-20D	303+71	17.6' RT	CB RECON	657.29	-	-	-	654.29	-	-	-
S-21	302+09	11.5' RT	CB TA 4' DIA T3V F&G	656.35	652.25	-	-	-	-	-	-

SCALES:  
1" = 20' HOR  
1" = 5' VER



**JJB**  
**JAMES J. BENES & ASSOCIATES, INC.**  
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 Tel. (630) 719-7570 • Fax (630) 719-7589

DESIGNED — JY	REVISED —
DRAWN — SMP	REVISED —
CHECKED — JCZ	REVISED —
DATE — 01/14/2022	REVISED —

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

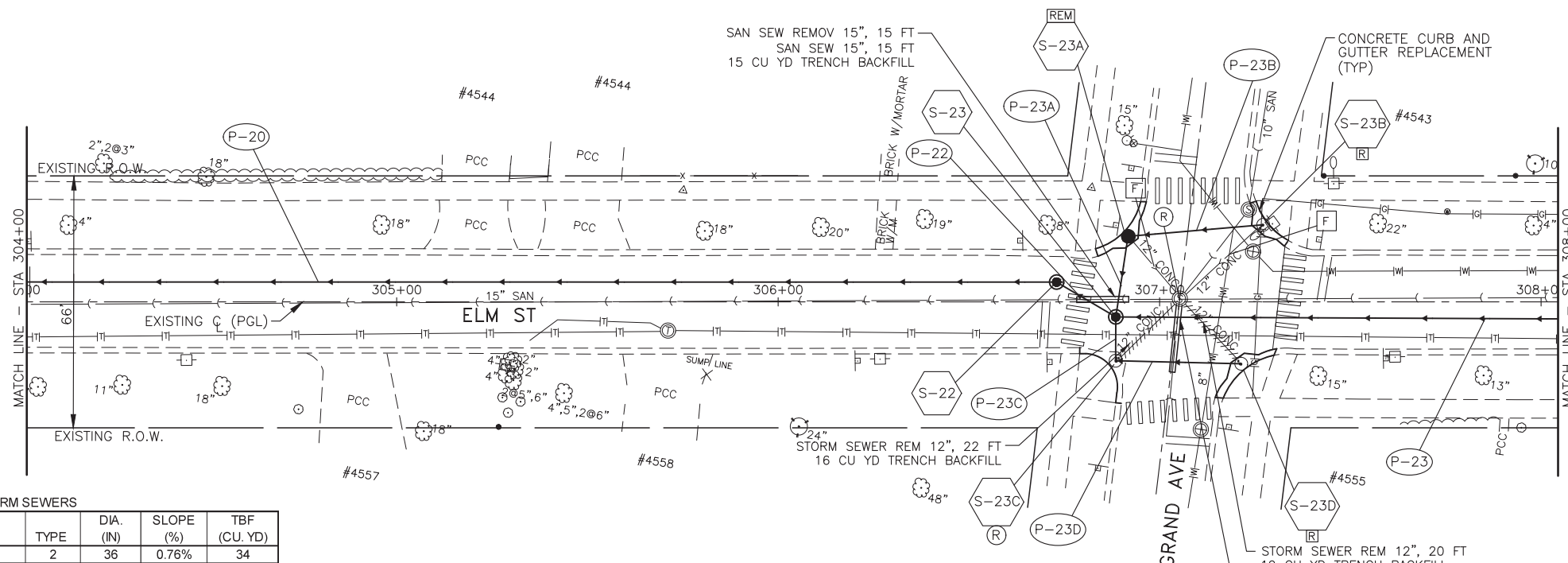
**DRAINAGE AND UTILITY PLANS**  
**ELM STREET**

SCALE: 1"=20' SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. 300+00 TO STA. 304+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MUN 2003A	16-00094-00-PV	COOK	88	46
CONTRACT NO. 61H47			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	AT	
	NO.	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	AT	
	NO.	
	NO.	



**LEGEND**

- [A] DRAINAGE AND UTILITY STRUCTURES TO BE ADJUSTED
- (A) DRAINAGE AND UTILITY STRUCTURES TO BE ADJUSTED WITH NEW FRAME & LID
- [R] DRAINAGE AND UTILITY STRUCTURES TO BE RECONSTRUCTED
- (R) DRAINAGE AND UTILITY STRUCTURES TO BE RECONSTRUCTED WITH NEW FRAME & LID
- [F] FILLING EXISTING STRUCTURE
- [P] PLUG EXISTING PIPE
- [REM] DRAINAGE AND UTILITY STRUCTURES TO BE REMOVED
- ///// STORM SEWER TO BE REMOVED

**STORM SEWERS**

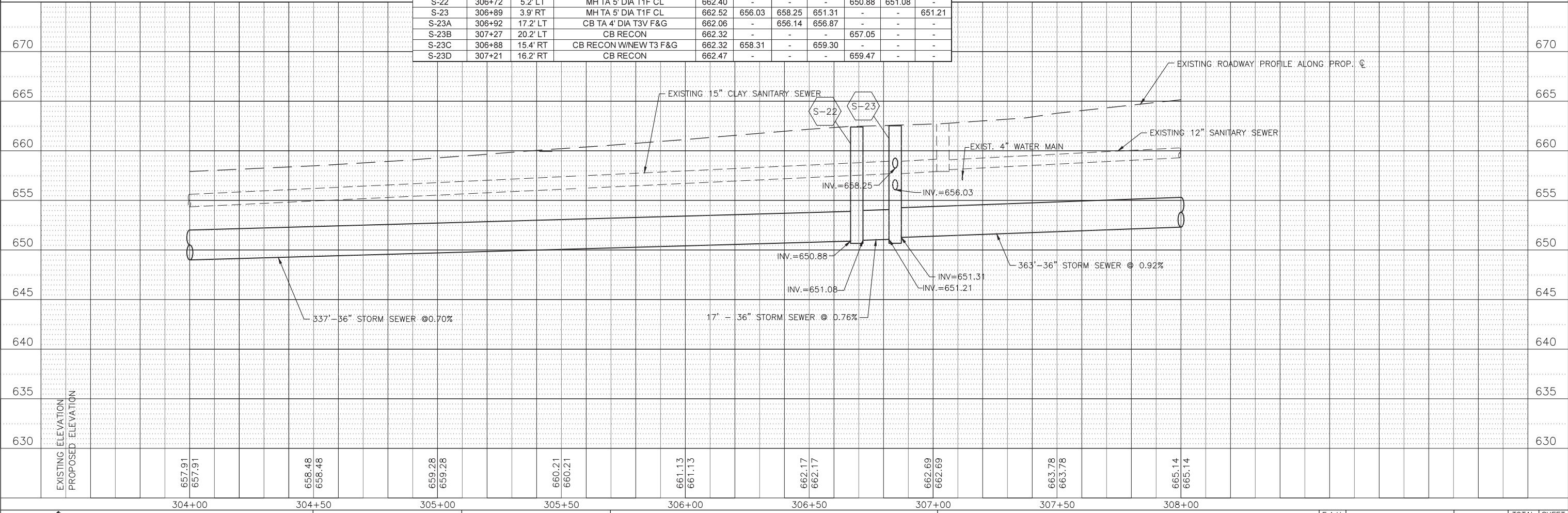
NO	LENGTH (FOOT)	MATERIAL	TYPE	DIA. (IN)	SLOPE (%)	TBF (CU. YD)
P-22	17	SS, CL A	2	36	0.76%	34
P-23	363	SS, CL A	3	36	0.92%	990
P-23A	22	SS, CL A	2	12	0.50%	21
P-23B	36	SS, WMR	-	12	0.50%	29
P-23C	12	SS, CL A	2	12	0.50%	5
P-23D	33	SS, WMR	-	12	0.50%	12

**STORM SEWER STRUCTURES**

STRUCT. NO.	STATION	OFFSET	STRUCTURE TYPE	INVERT						
				RIM	NORTH	SOUTH	EAST	WEST	SE	NW
S-22	306+72	5.2' LT	MH TA 5' DIA T1F CL	662.40	-	-	-	650.88	651.08	-
S-23	306+89	3.9' RT	MH TA 5' DIA T1F CL	662.52	656.03	658.25	651.31	-	-	651.21
S-23A	306+92	17.2' LT	CB TA 4' DIA T3V F&G	662.06	-	656.14	656.87	-	-	-
S-23B	307+27	20.2' LT	CB RECON	662.32	-	-	-	657.05	-	-
S-23C	306+88	15.4' RT	CB RECON W/NEW T3 F&G	662.32	658.31	-	659.30	-	-	-
S-23D	307+21	16.2' RT	CB RECON	662.47	-	-	-	659.47	-	-

ELM STREET ROADWAY IMPROVEMENT CONSISTS OF PAVEMENT PATCHING FOR PROPOSED STORM SEWER

SCALES:  
1" = 20' HOR  
1" = 5' VER



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DESIGNED	JY	REVISED	-
DRAWN	SMP	REVISED	-
CHECKED	JCZ	REVISED	-
DATE	8/13/2021	REVISED	-

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

**DRAINAGE AND UTILITY PLANS**  
**ELM STREET**




SCALE: 1"=20' SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. 304+00 TO STA. 308+00

F.A.U. RTE. 2003A	SECTION 16-00094-00-PV	COUNTY COOK	TOTAL SHEETS 88	SHEET NO. 47
CONTRACT NO. 61H47			ILLINOIS FED. AID PROJECT	

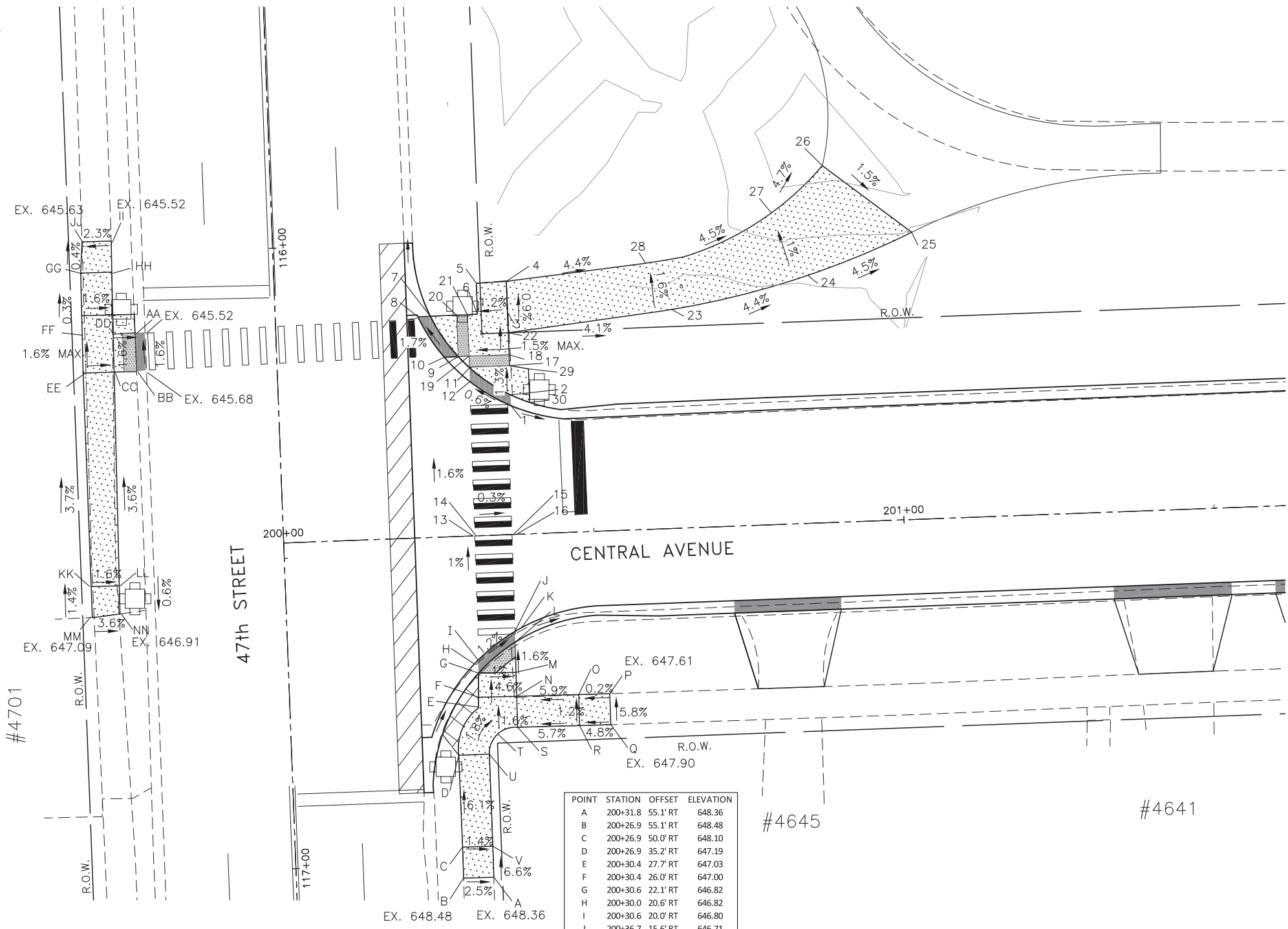




LEGEND

-  B-6.18 CURB AND GUTTER
-  DEPRESSED CURB ADJACENT TO CURB RAMP ACCESSIBLE TO THE DISABLED
-  DETECTABLE WARNING

POINT	STATION	OFFSET	ELEV
AA	116+12.8	22.6 RT	645.55
BB	116+19.0	22.6 RT	645.65
CC	116+19.0	26.3 RT	645.70
DD	116+12.8	26.2 RT	645.60
EE	116+18.9	31.3 RT	645.75
FF	116+12.7	31.2 RT	645.68
GG	116+02.8	31.0 RT	645.65
HH	116+02.9	26.0 RT	645.57
II	115+97.9	25.9 RT	645.52
JJ	115+97.8	30.6 RT	645.63
KK	116+53.3	31.7 RT	647.02
LL	116+53.4	26.7 RT	646.94
MM	116+58.4	31.8 RT	647.09
NN	116+57.9	26.7 RT	646.91



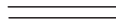


POINT	STATION	OFFSET	ELEVATION
1	200+37.4	20.7 LT	646.25
2	200+37.4	22.5' LT	646.21
3	200+37.4	35.7' LT	646.04
4	200+37.4	40.8' LT	646.00
5	200+32.6	40.7' LT	646.00
6	200+32.6	35.6' LT	645.98
7	200+24.9	35.6' LT	645.78
8	200+22.9	35.6' LT	645.78
9	200+29.2	28.9' LT	645.95
10	200+27.0	28.9' LT	645.91
11	200+30.5	27.1' LT	646.17
12	200+30.9	24.8' LT	646.20
13	200+30.6	0' LT	646.60
14	200+31.1	0' LT	646.60
15	200+37.1	0' LT	646.58
16	200+37.7	0' LT	646.58
17	200+37.4	27.2' LT	646.15
18	200+37.4	29.0' LT	646.10
19	200+30.5	29.0' LT	646.08
20	200+29.2	35.7' LT	645.85
21	200+30.9	35.7' LT	645.98
22	200+37.6	32.5' LT	646.07
23	200+64.2	35.1' LT	645.00
24	200+86.0	40.0' LT	644.00
25	201+03.0	46.2' LT	643.19
26	200+86.7	59.3' LT	643.50
27	200+80.3	50.5' LT	644.00
28	200+60.0	42.8' LT	645.00
29	200+40.0	26.6' LT	646.15
30	200+40.5	21.1' LT	646.22

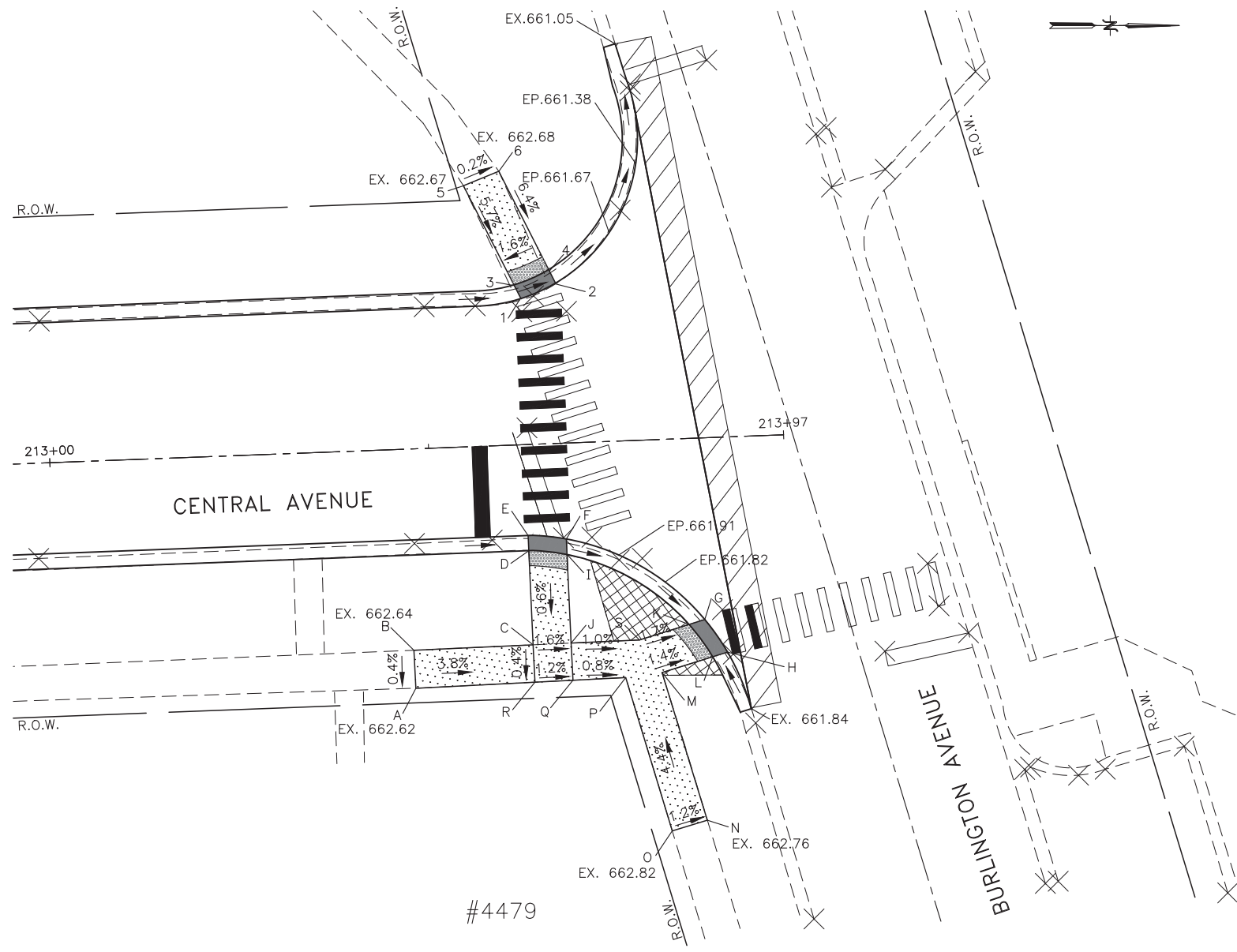
POINT	STATION	OFFSET	ELEVATION
A	200+31.8	55.1' RT	648.36
B	200+26.9	55.1' RT	648.48
C	200+26.9	50.0' RT	648.10
D	200+26.9	35.2' RT	647.19
E	200+30.4	27.7' RT	647.03
F	200+30.4	26.0' RT	647.00
G	200+30.6	22.1' RT	646.82
H	200+30.0	20.6' RT	646.82
I	200+30.6	20.0' RT	646.80
J	200+36.7	15.6' RT	646.71
K	200+37.2	15.0' RT	646.68
L	200+36.6	17.4' RT	646.68
M	200+36.6	22.2' RT	646.76
N	200+36.6	26.1' RT	647.01
O	200+46.6	26.2' RT	647.60
P	200+51.6	26.2' RT	647.61
Q	200+51.6	31.2' RT	647.90
R	200+46.5	31.2' RT	647.66
S	200+36.5	31.1' RT	647.09
T	200+33.3	32.2' RT	647.12
U	200+31.8	35.2' RT	647.15
V	200+31.8	50.1' RT	648.03

CENTRAL AVENUE AND 47th STREET



LEGEND

-  B-6.18 CURB AND GUTTER
-  DEPRESSED CURB ADJACENT TO CURB RAMP ACCESSIBLE TO THE DISABLED
-  DETECTABLE WARNING



POINT	STATION	OFFSET	ELEVATION
1	213+62.8	19.2' LT	662.02
2	213+67.7	21.1' LT	661.95
3	213+62.1	21.0' LT	661.99
4	213+66.8	22.8' LT	661.92
5	213+55.9	34.4' LT	662.67
6	213+60.7	36.2' LT	662.68

POINT	STATION	OFFSET	ELEVATION
A	213+47.1	31.6' RT	662.62
B	213+47.1	26.6' RT	662.64
C	213+62.8	26.4' RT	662.04
D	213+62.7	14.0' RT	662.11
E	213+62.7	12.0' RT	662.08
F	213+67.7	12.6' RT	662.00
G	213+85.6	24.0' RT	661.73
H	213+88.4	28.4' RT	661.76
I	213+67.8	14.8' RT	662.03
J	213+67.8	26.4' RT	661.96
K	213+83.5	24.6' RT	661.76
L	213+86.5	28.9' RT	661.79
M	213+79.8	30.8' RT	661.89
N	213+84.9	50.4' RT	662.76
O	213+80.2	51.7' RT	662.82
P	213+74.8	31.2' RT	661.90
Q	213+67.9	31.3' RT	661.95
R	213+62.8	31.3' RT	662.02
S	213+76.8	26.3' RT	661.87

CENTRAL AVENUE AND BURLINGTON AVENUE

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DESIGNED — JY	REVISED —
DRAWN — SMP	REVISED —
CHECKED — JCZ	REVISED —
DATE — 8/13/2021	REVISED —

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

**ADA CURB RAMP AND SIDEWALK DETAIL**  
**CENTRAL AVE AT BURLINGTON AVE**  
 SCALE: 1"=10'  
 SHEET NO. OF SHEETS STA. — TO STA. —

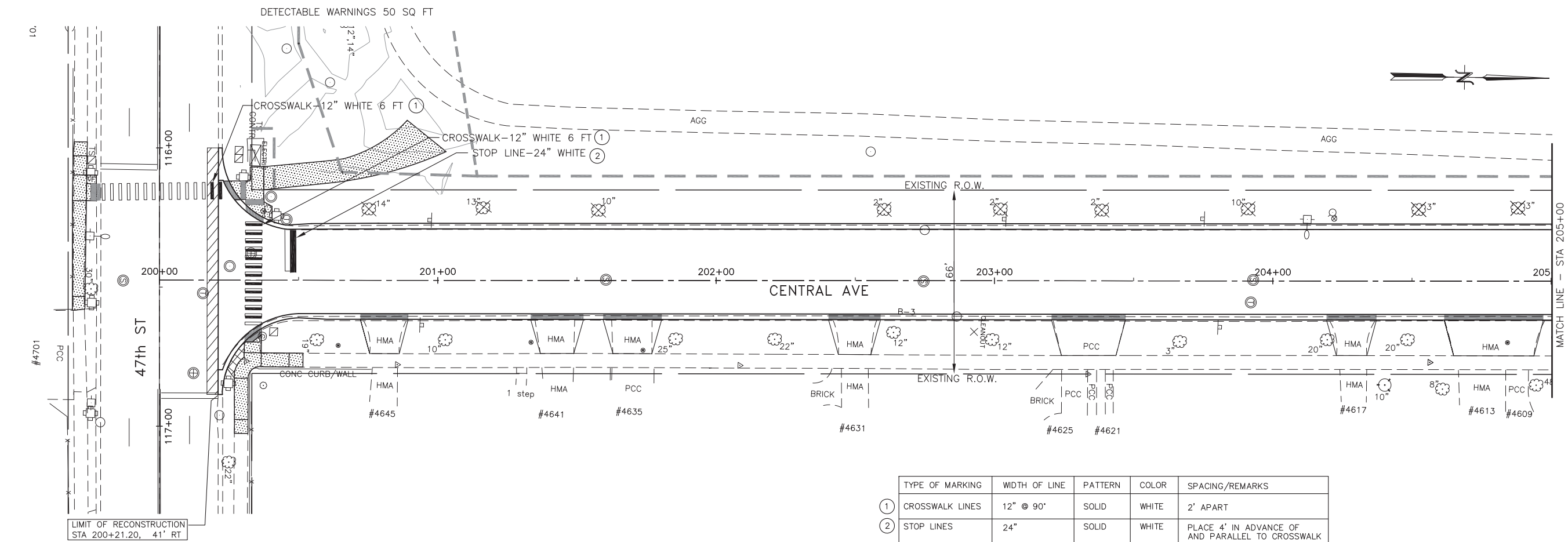
F.A.U. RTE. 2003A	SECTION 16-00094-00-PV	COUNTY COOK	TOTAL SHEETS 88	SHEET NO. 51
ILLINOIS FED. AID PROJECT				

CONTRACT NO. 61H47

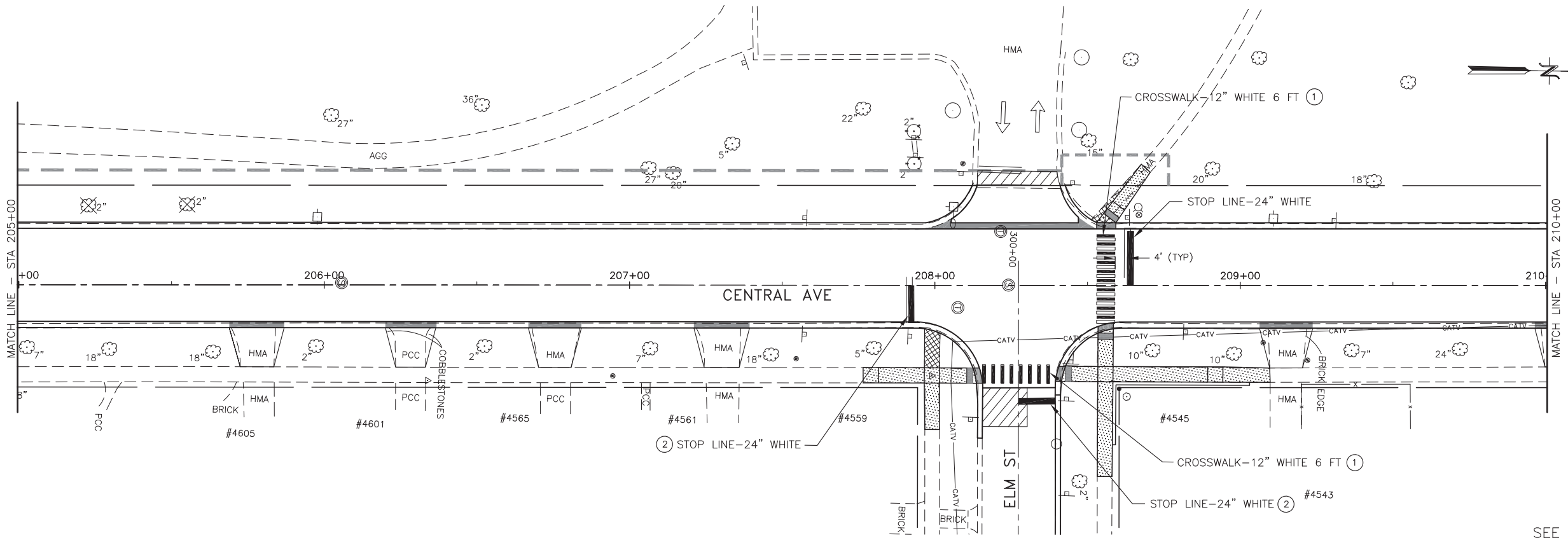


PLAN	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	ALIGNED		
	FILED		
	FILE NAME		
	NO.		

PROFILE	SURVEYED	BY	DATE
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NO.		



TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING/REMARKS
① CROSSWALK LINES	12" @ 90'	SOLID	WHITE	2' APART
② STOP LINES	24"	SOLID	WHITE	PLACE 4' IN ADVANCE OF AND PARALLEL TO CROSSWALK



SEE STANDARD TC13

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DRAWN — JY	REVISED —
CHECKED — JCZ	REVISED —
DATE — 01/14/2022	REVISED —

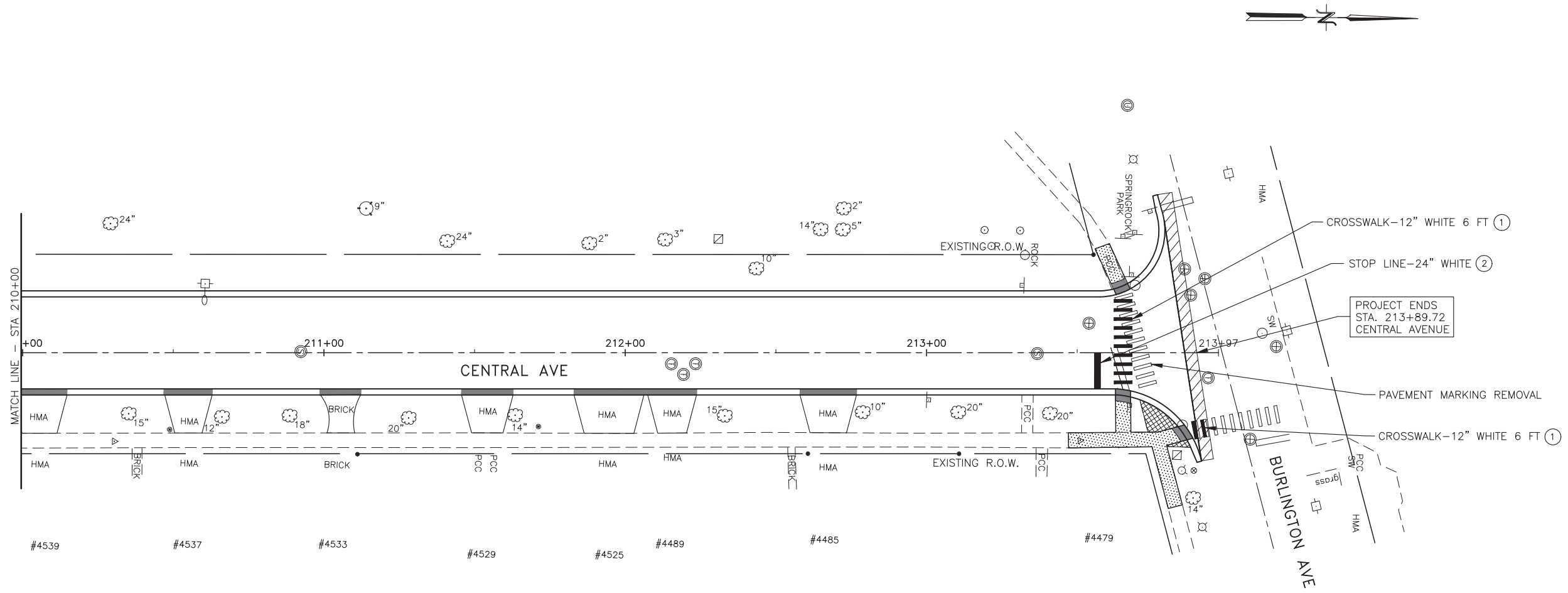
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN**  
**CENTRAL AVENUE**  
 SCALE: 1"=20' SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. 200+00 TO STA. 205+00

F.A.U. RTE. MUN 2003A	SECTION 16-00094-00-PV	COUNTY COOK	TOTAL SHEETS 88	SHEET NO. 52
CONTRACT NO. 61H47				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHKD	
	NOTE BOOK NO.	
	DATE	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHKD	
	NOTE BOOK NO.	
	DATE	



	TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING/REMARKS
①	CROSSWALK LINES	12" @ 90°	SOLID	WHITE	2' APART
②	STOP LINES	24"	SOLID	WHITE	PLACE 4' IN ADVANCE OF AND PARALLEL TO CROSSWALK

SEE STANDARD TC13



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DESIGNED	— JY	REVISED	—
DRAWN	— JY	REVISED	—
CHECKED	— JCZ	REVISED	—
DATE	— 10/11/2021	REVISED	—

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





**PAVEMENT MARKING PLAN**  
**CENTRAL AVENUE**

SCALE: 1"=20' SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. 210+00 TO STA. 213+97

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MUN 2003A	16-00094-00-PV	COOK	88	53
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H47	



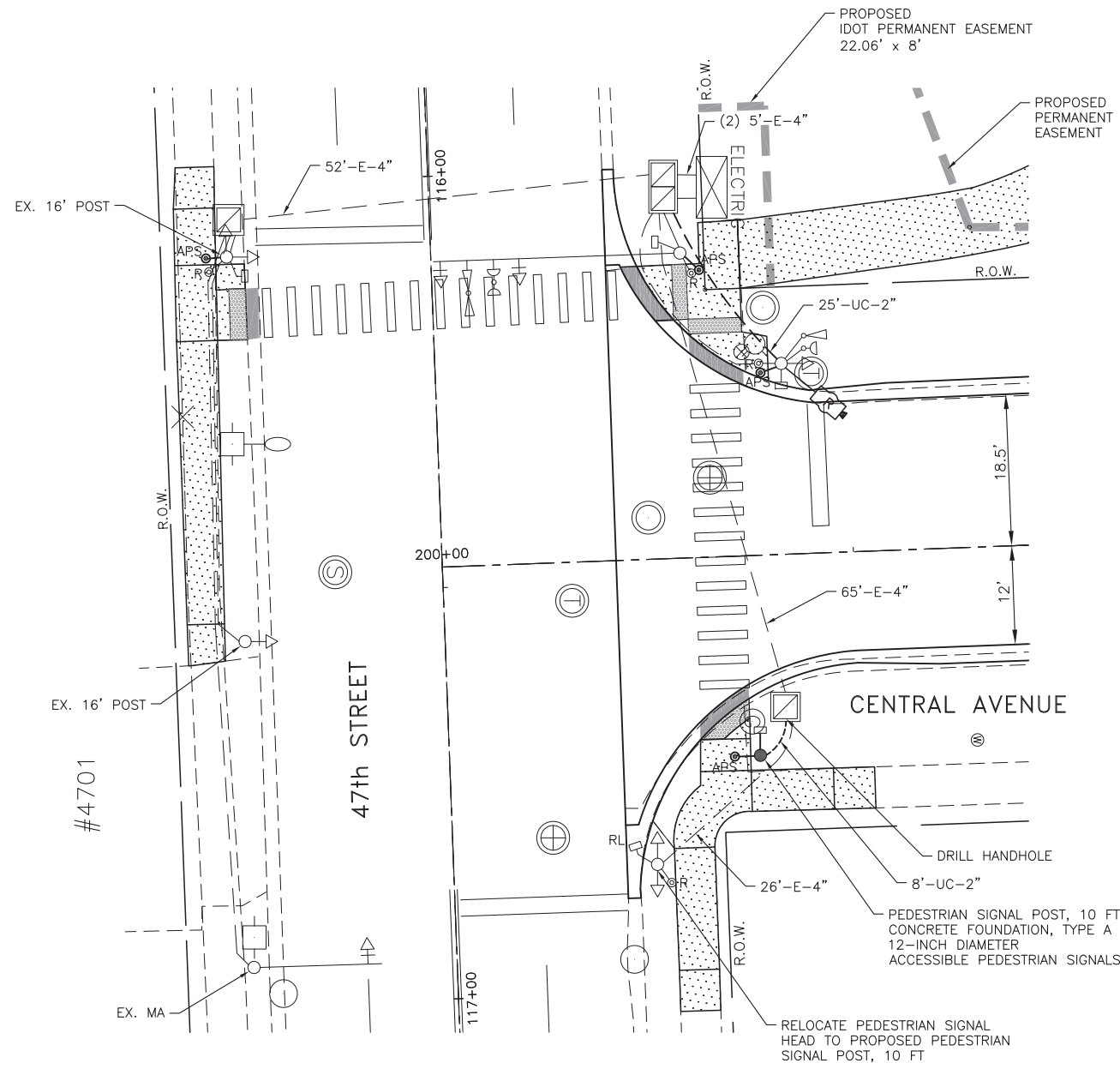
LEGEND

-  B-6.18 CURB AND GUTTER
-  DEPRESSED CURB ADJACENT TO CURB RAMP ACCESSIBLE TO THE DISABLED
-  DETECTABLE WARNING
-  PROPOSED PCC SIDEWALK

RELOCATION NOTES:

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED NEW POST.

1 EACH PEDESTRIAN SIGNED HEAD



TS SHT NO. 1



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DESIGNED — SJG	REVISED —
DRAWN — SMP	REVISED —
CHECKED — JCZ	REVISED —
DATE — 02/03/2022	REVISED —

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN  
 CENTRAL AVENUE AT 47th STREET**

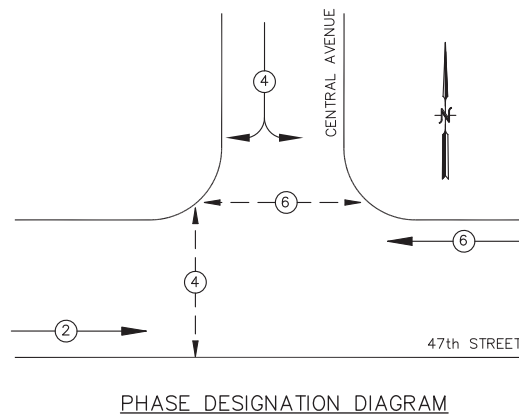
SCALE: 1"=10'      SHEET NO. OF SHEETS      STA. — TO STA. —

F.A.U. RTE. MUN. 2003A	SECTION 16-00094-00-PV	COUNTY COOK	TOTAL SHEETS 88	SHEET NO. 55
CONTRACT NO. 61H47				
ILLINOIS FED. AID PROJECT				

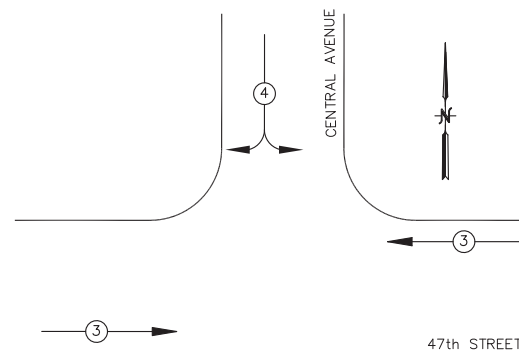
TSC 22175



EXISTING AND PROPOSED CONTROLLER SEQUENCE

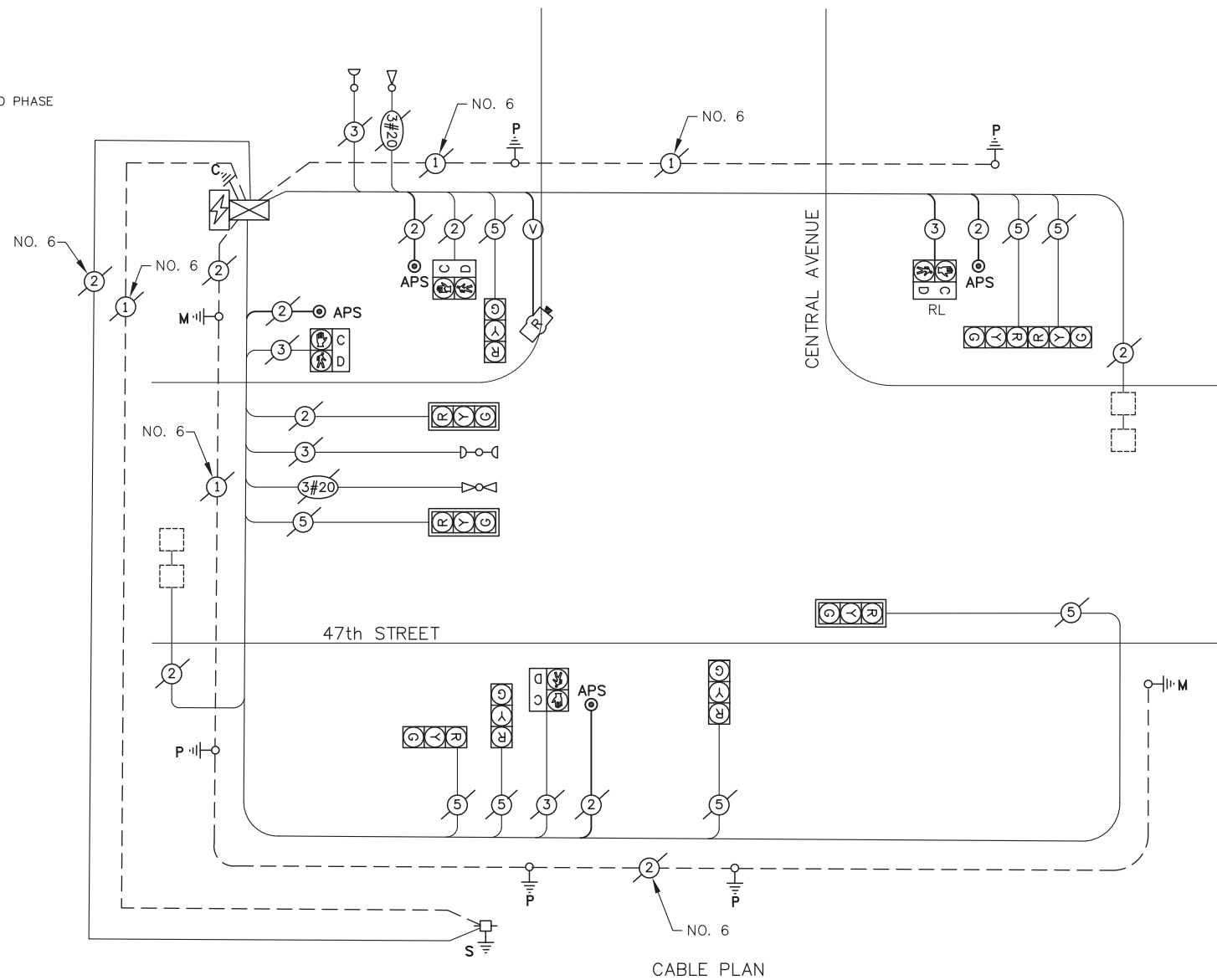


EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTORS	3	4
MOVEMENT	←	↓

- LEGEND
- ⊙ PROTECTED PHASE
  - ⊙-⊙ PROTECTED/PERMITTED PHASE
  - ⊙-⊙ PEDESTRIAN PHASE
  - OL OVERLAP



I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE		% OPERATION	
SIGNAL (RED)	9	17	0.50	76.5	
(YELLOW)	9	25	0.25	56.25	
(GREEN)	9	15	0.25	33.75	
ARROW	-	-	-	-	
PED. SIGNAL	4	25	1.00	100	
CONTROLLER	1	100	1.00	100	
ILLUM. SIGN	-	25	0.05	-	
VIDEO SYSTEM	-	-	1.00	-	
UPS	1	25	1.00	25	
FLASHER	-	-	-	-	
ENERGY COSTS TO:				TOTAL =	391.5
VILLAGE OF WESTERN SPRINGS 740 HILLGROVE AVENUE WESTERN SPRINGS, IL 60558					
ENERGY SUPPLY CONTACT: ILYAS MOHIUDDIN PHONE: (708) 235-2692 COMPANY: COMMONWEALTH EDISON					

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
8	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
1	L SUM	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
113	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
120	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
21	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
1	EACH	DRILL EXISTING HANDHOLE
1	EACH	RELOCATE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	MODIFY EXISTING CONTROLLER
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1
1	EACH	RADAR VEHICLE DETECTION SYSTEM, SINGLE APPROACH, STOP BAR
1	EACH	PEDESTRIAN SIGNAL POST, 10 FT.
4	FOOT	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER
4	EACH	ACCESSIBLE PEDESTRIAN SIGNALS
4	EACH	REMOVE EXISTING PEDESTRIAN PUSH BUTTON

TS SHT. NO. 2

**JJB** JAMES J. BENES & ASSOCIATES, INC.  
 1011 Warrenville Road, Suite 420, Lisle, Illinois 60532  
 Tel. (630) 719-7570 · Fax (630) 719-7589

DESIGNED — SJG	REVISED —
DRAWN — SMP	REVISED —
CHECKED — JCZ	REVISED —
DATE — 02/03/2022	REVISED —

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

**CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
 AND EMERGENCY VEHICLE PREEMPTION SEQUENCE  
 CENTRAL AVENUE AT 47th STREET**

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

F.A.U. RTE. MUN. 2003A	SECTION 16-00094-00-PV	COUNTY COOK	TOTAL SHEETS 88	SHEET NO. 56
CONTRACT NO. 61H47				
ILLINOIS FED. AID PROJECT				

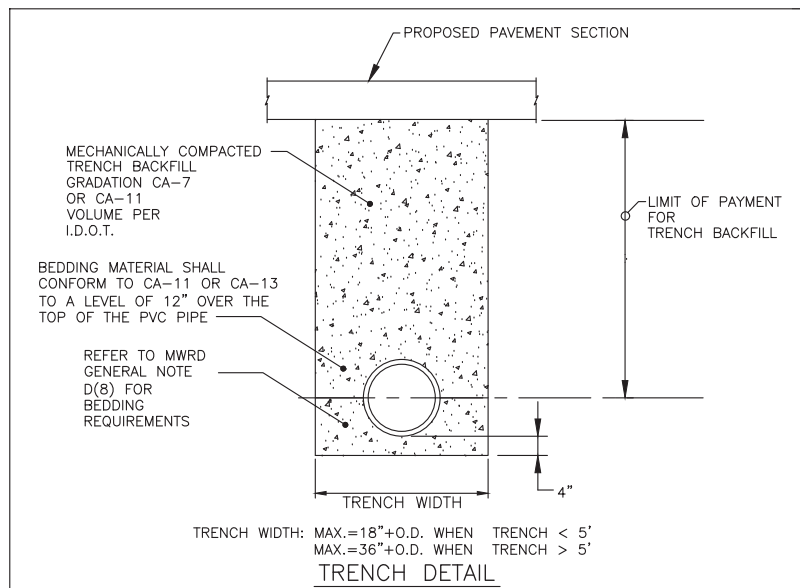
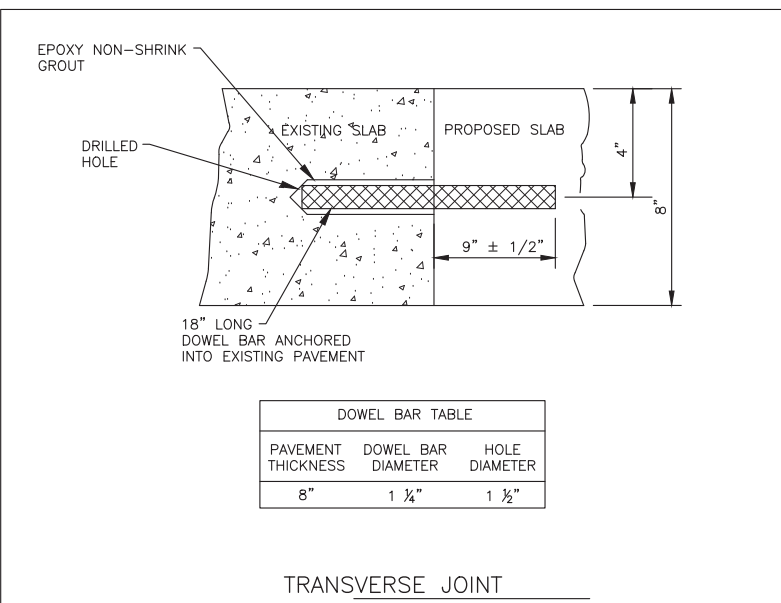
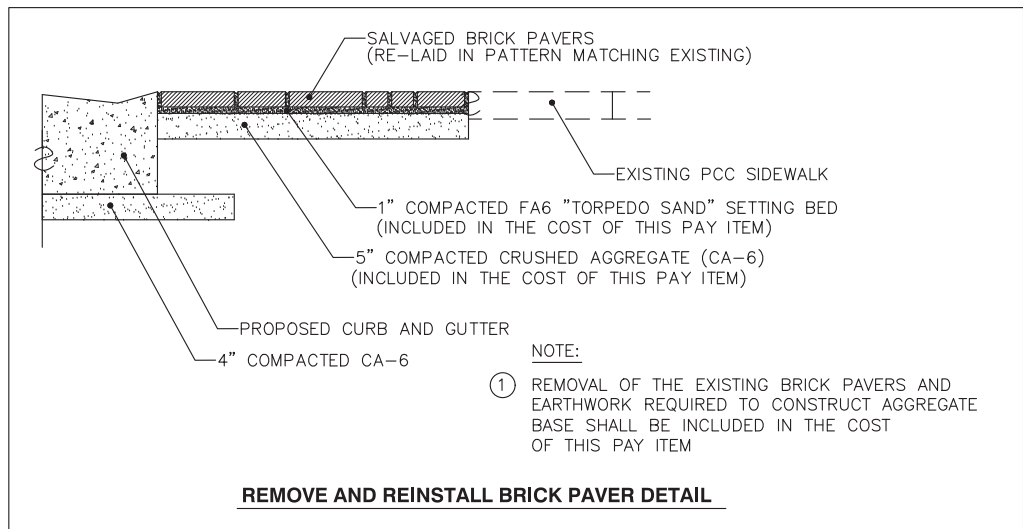
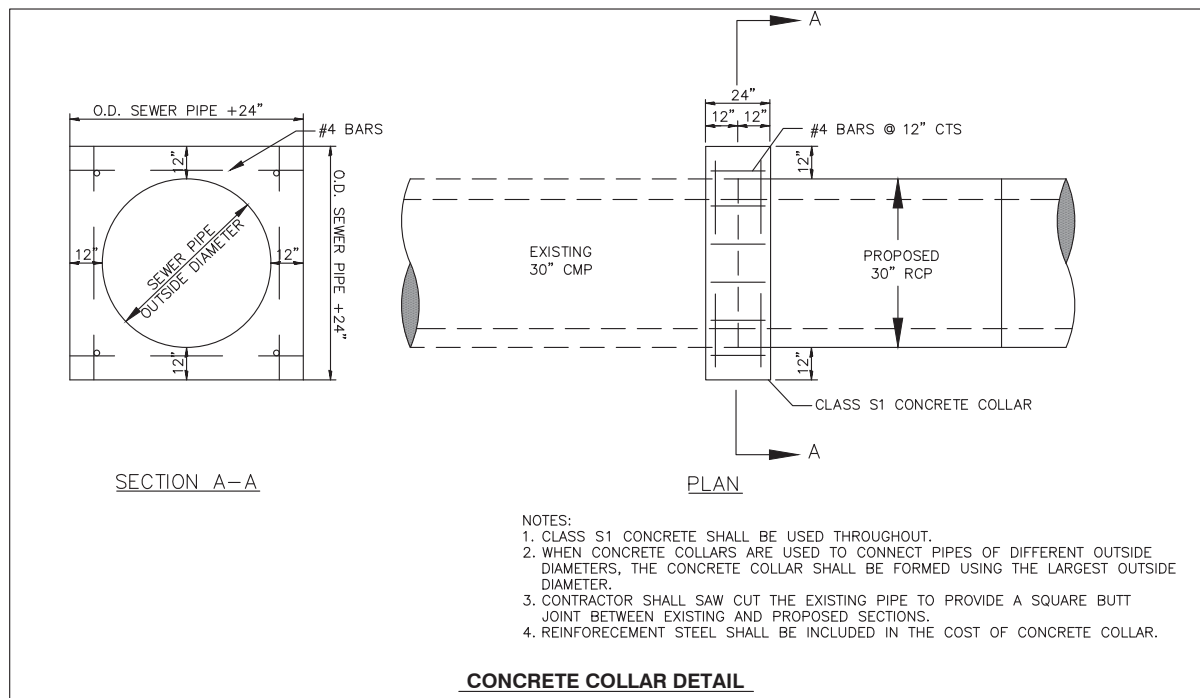
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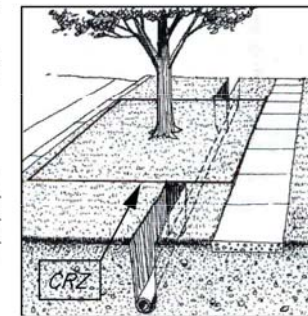
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	PLOTTED	
	CHECKED	
	BY	
	NO.	

PROFILE	SURVEYED	DATE
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	BY	
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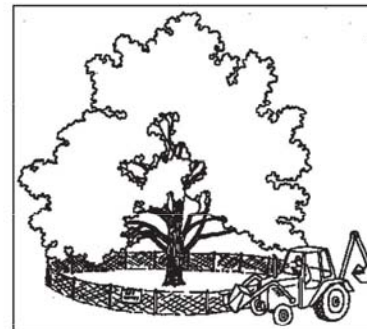


Municipal Codes regarding trees, including tree protection requirements for public parkway trees, are located in Title 5, Chapter 5 of the Western Springs Village Code. Additional requirements are mentioned herein. Parkway tree protection shall involve avoiding damage to both the above ground tree trunk, including the branches, and the below ground root system. Roots are the most vital part of a tree with the majority of nutrient and water absorbing roots in the upper 18 to 24 inches of soil. Tree roots must be protected from severing or changes in their soil environment (such as compaction or grade changes) to prevent irreversible tree decline or death in the coming years.

The Critical Root Zone, or CRZ, is the area immediately surrounding a tree shall be protected from damage. The size of this area, measured from the center of the tree, is ideally a circle with a radius of one foot for each inch of trunk diameter. The depth of the CRZ extends to 4 feet below the natural ground surface level. In a municipal parkway setting with utilities and paved or concrete surfaces, the CRZ cannot grow naturally. Instead, the CRZ has been adjusted to form a rectangle around the parkway tree trunk with the minimum dimensions listed in the following table. At a minimum, the listed CRZ shall be fenced with a temporary 6 foot high post-driven chain link fence with metal posts spaced no further than 10 feet apart. The fence shall be placed on three sides of the tree with the private side of the tree left open for maintenance purposes. Whenever possible, the entire parkway shall be fenced in except where access has been permitted. Any exceptions shall be noted on the drawings submitted for a given permit.



PARKWAY TREE DIAMETER AT 4.5'	WIDTH FROM STREET TO PROPERTY (MINIMUM CURB TO SIDEWALK)	LENGTH ALONG STREET (MINIMUM)	DEPTH
0-12.0 INCHES	10.0 FEET	10 FEET	4 FEET
12.1-24.0 INCHES	10.0 FEET	20 FEET	4 FEET
24.1 OR MORE INCHES	10.0 FEET	30 FEET	4 FEET



For public parkway trees, roots located within the determined CRZ shall be protected from compaction, severing, and the storage of materials or equipment. In some cases and as directed by the Village, utilities must be augered underneath the tree as shown above. In cases when severing of roots within a portion of the CRZ may be unavoidable (ex. sidewalk installation, curb replacement, water main or sanitary main disconnects in the parkway), subject to the approval of the Village, the smallest possible area shall be disturbed and sharp clean cuts shall be made on root ends to promote wound closure and root regeneration. All CRZ fencing shall be temporary 6 foot high post-driven chain link fence with metal posts spaced no further than 10 feet apart, and shall be maintained daily in good condition. Any exceptions to the fence dimensions or parkway position shall be noted on the building permit (for private work) or approved by the onsite Village representative (for Village work).

- In addition to fines and citations that may be assessed for violations per Title 5, Chapter 5 of the Western Springs Village Code, violators may be subject to the following provisions:
- issuance of an invoice for the monetary loss in tree value or partial value due to damage to either the above ground or below ground portions of the parkway tree, or unauthorized tree removal.
  - forfeiture of bonds issued for the work should funds be sufficient to cover tree values and fines.
  - costs of repairs, such as pruning or cabling, or costs for removal of the damaged parkway tree along with the stump if the tree cannot remain in the right-of-way.
  - fines of \$500 for the 1st offense; \$1,000 for the 2nd offense; \$2,500 for 3rd and subsequent offenses.
  - each day during which a violation continues shall be construed as a separate and distinct offense.

For more information, contact the Municipal Services at 708-246-1800.

N.T.S.	DATE	REVISIONS	DRAWN BY	APPVD BY	STANDARD DETAIL
	03/21		J.P.T.		PARKWAY TREE PROTECTION REQUIREMENTS
DRAWING NO. TRE-01					
G:\Engineering Services\Standard Details\Village Standard Details					

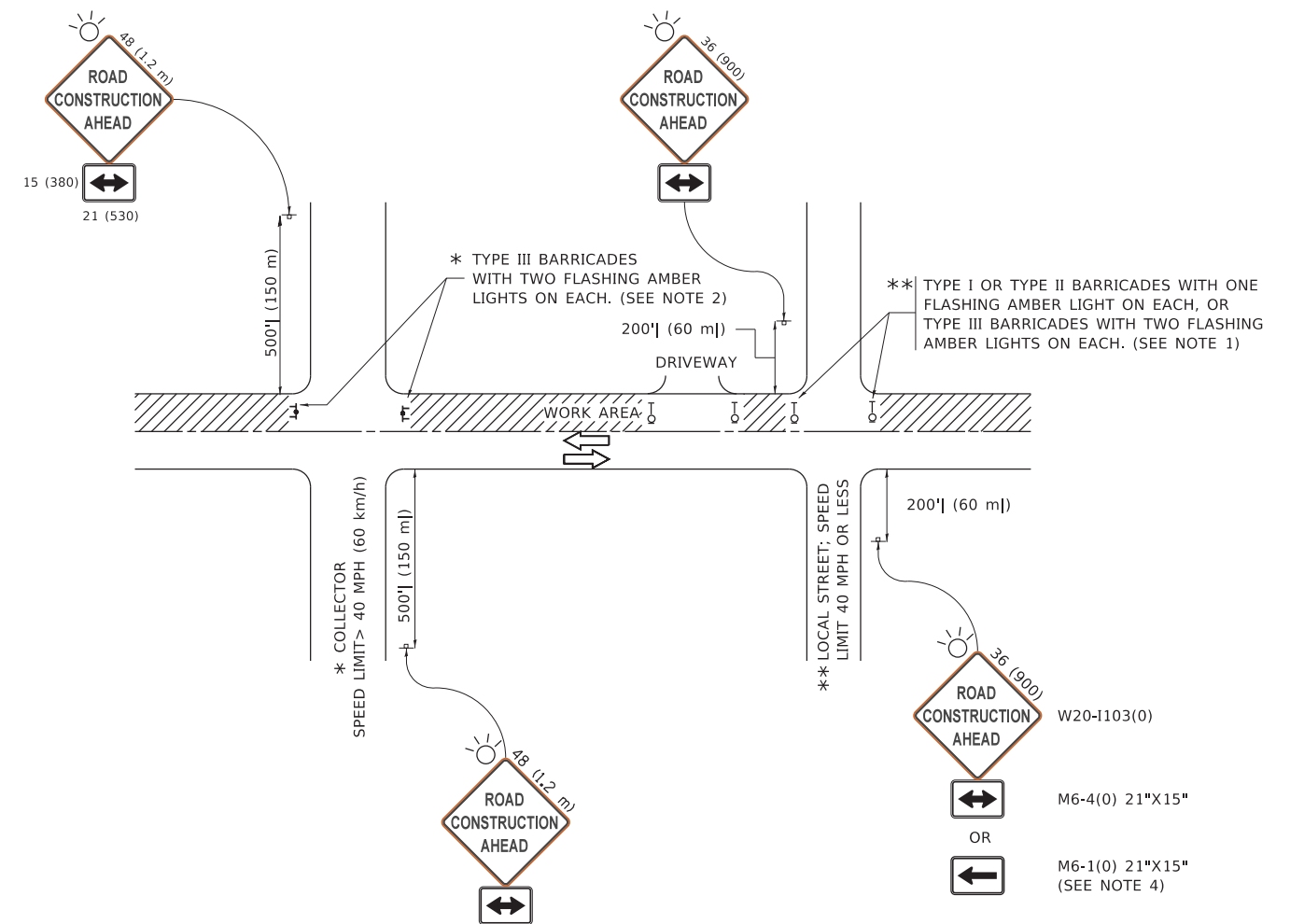












**NOTES:**

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) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

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

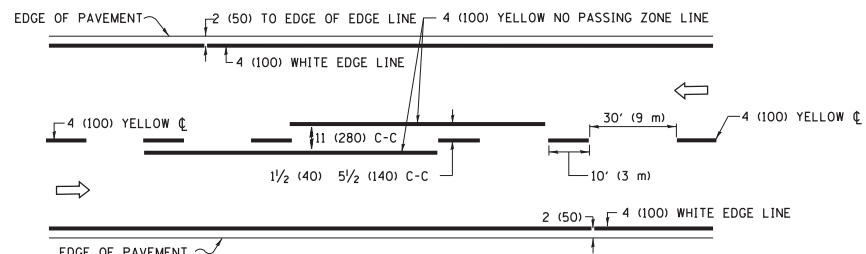
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

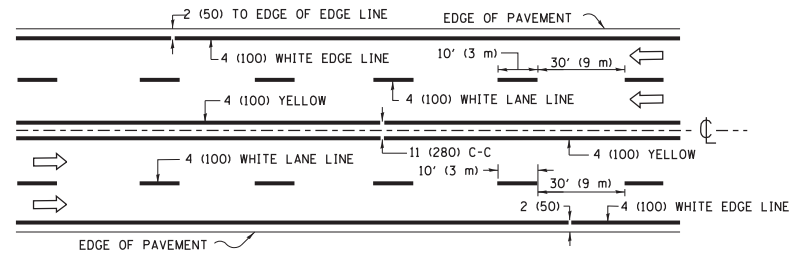
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F.A.U. RTE. 2003A	SECTION 16-00094-00-PV	COUNTY COOK	TOTAL SHEETS 88	SHEET NO. 63
<b>TC-10</b>		CONTRACT NO. 61H47		
ILLINOIS FED. AID PROJECT				

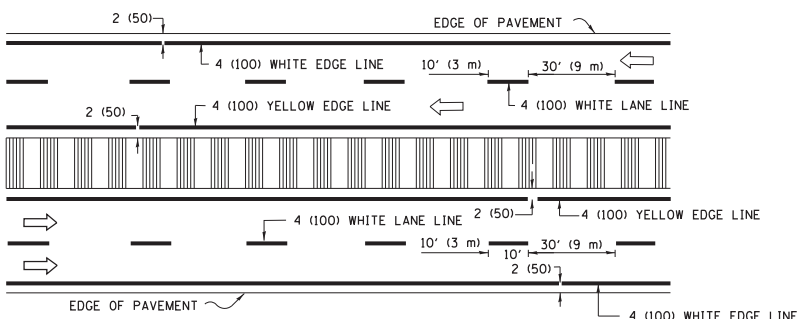




**2-LANE ROADWAY**

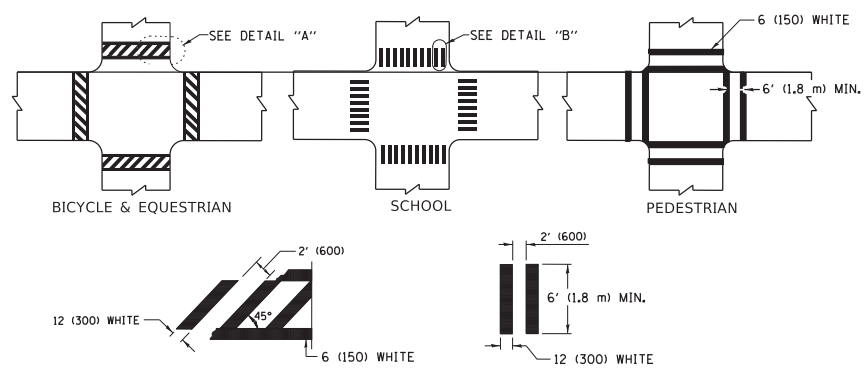


**MULTI-LANE UNDIVIDED**



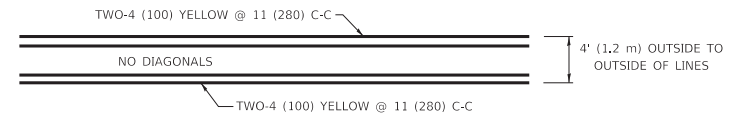
**MULTI-LANE DIVIDED WITH MEDIAN**

**TYPICAL LANE AND EDGE LINE MARKING**

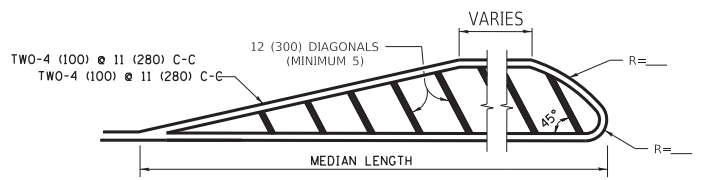


**TYPICAL CROSSWALK MARKING**

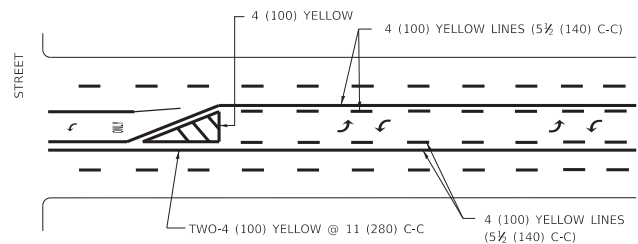
\* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



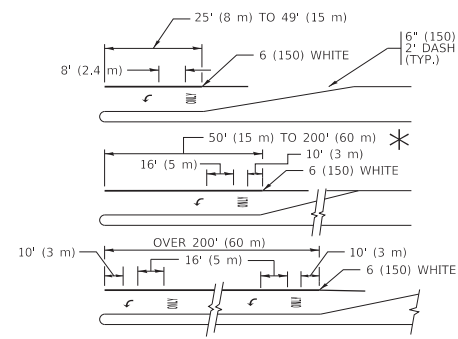
**4' (1.2 m) WIDE MEDIANS ONLY**



**MEDIANS OVER 4' (1.2 m) WIDE**

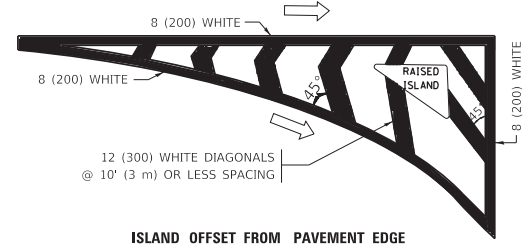


**MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING**

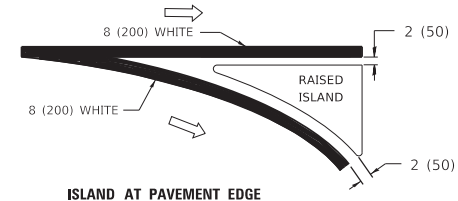


**TYPICAL LEFT (OR RIGHT) TURN LANE TYPICAL TURN LANE MARKING**

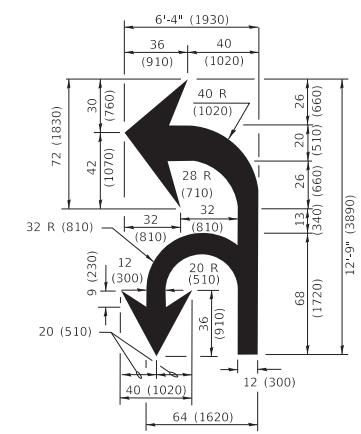
FULL SIZE LETTERS 8" (2.4 m) AND ARROWS SHALL BE USED.  
 \* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".



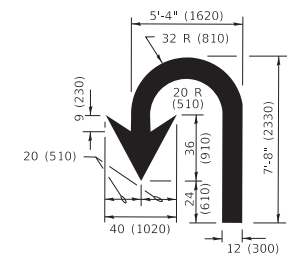
**ISLAND OFFSET FROM PAVEMENT EDGE**



**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 <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
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.

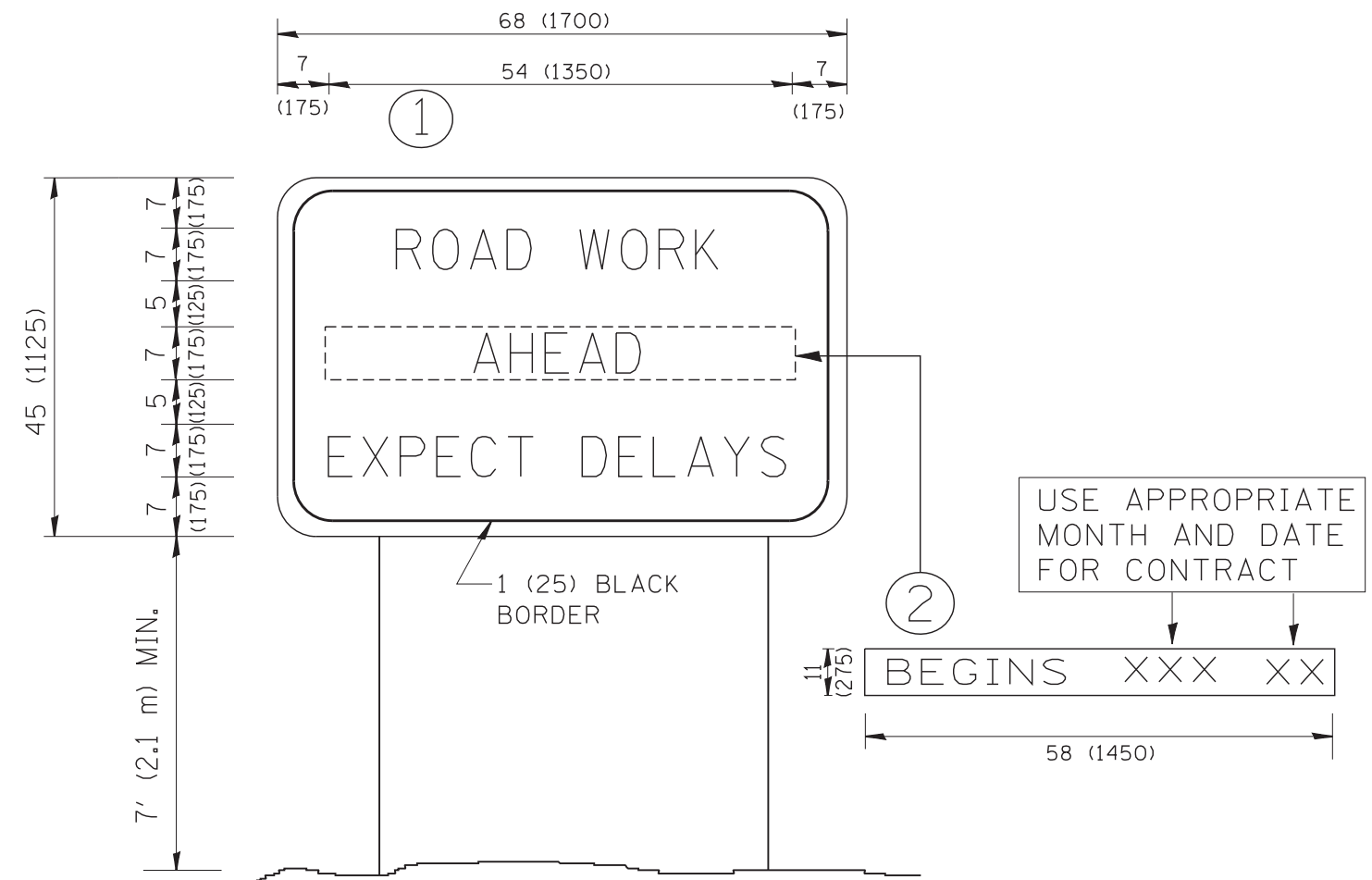
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		REVISED - C. JUCIUS 04-12-16

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

<b>DISTRICT ONE</b>	
<b>TYPICAL PAVEMENT MARKINGS</b>	
SCALE: NONE	SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MUN 2003A	16-00094-00-PV	COOK	88	64
<b>TC-13</b>		CONTRACT NO. 61H47		
ILLINOIS FED. AID PROJECT				



**NOTES:**

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

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

FILE NAME = W:\diststd\22x34\tc22.dgn	USER NAME = gegltonbt	DESIGNED -	REVISED - R. MIRS 09-15-97
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	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD  
INFORMATION SIGN**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MUN. 2003A	16-00094-00-PV	COOK	88	65
TC-22			CONTRACT NO. 61H47	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

# TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED
CONTROLLER CABINET			HANDHOLE -SQUARE -ROUND	 	 	SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD		
COMMUNICATION CABINET			HEAVY DUTY HANDHOLE -SQUARE -ROUND	 	 	SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE		
MASTER CONTROLLER			DOUBLE HANDHOLE			PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
MASTER MASTER CONTROLLER			JUNCTION BOX			PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER		
UNINTERRUPTABLE POWER SUPPLY			RAILROAD CANTILEVER MAST ARM			ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"	 	 
SERVICE INSTALLATION -(P) POLE MOUNTED			RAILROAD FLASHING SIGNAL			NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED		
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	 	 	RAILROAD CROSSING GATE			GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)		
TELEPHONE CONNECTION			RAILROAD CROSSBUCK			ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C		
STEEL MAST ARM ASSEMBLY AND POLE			RAILROAD CONTROLLER CABINET			COAXIAL CABLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE			UNDERGROUND CONDUIT (UC), GALVANIZED STEEL			VENDOR CABLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE			TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY			SYSTEM ITEM	S	SP	FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F	  	  
WOOD POLE			INTERSECTION ITEM	I	IP	GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE	   	   
GUY WIRE			REMOVE ITEM		R			
SIGNAL HEAD			RELOCATE ITEM		RL			
SIGNAL HEAD WITH BACKPLATE			ABANDON ITEM		A			
SIGNAL HEAD OPTICALLY PROGRAMMED			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF			
FLASHER INSTALLATION -(FS) SOLAR POWERED	 	 	MAST ARM POLE AND FOUNDATION TO BE REMOVED		RMF			
PEDESTRIAN SIGNAL HEAD			SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF			
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON	 	 	DETECTOR LOOP, TYPE I	 	 			
RADAR DETECTION SENSOR			PREFORMED DETECTOR LOOP	 	 			
VIDEO DETECTION CAMERA			SAMPLING (SYSTEM) DETECTOR	 	 			
RADAR/VIDEO DETECTION ZONE			INTERSECTION AND SAMPLING (SYSTEM) DETECTOR	 	 			
PAN, TILT, ZOOM (PTZ) CAMERA			QUEUE AND SAMPLING (SYSTEM) DETECTOR	 	 			
EMERGENCY VEHICLE LIGHT DETECTOR			WIRELESS DETECTOR SENSOR					
CONFIRMATION BEACON			WIRELESS ACCESS POINT					
WIRELESS INTERCONNECT								
WIRELESS INTERCONNECT RADIO REPEATER								

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 PROJECT: ...  
 OFFICE: ...  
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE    SHEET 1 OF 7 SHEETS    STA.    TO STA.

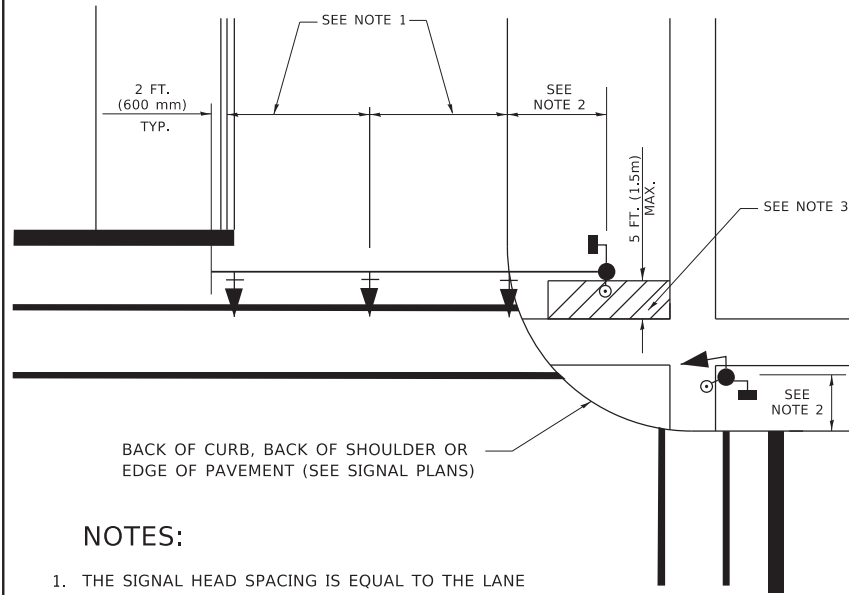
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<b>TS-05</b>		CONTRACT NO. 61H47		
ILLINOIS FED. AID PROJECT				





**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST**

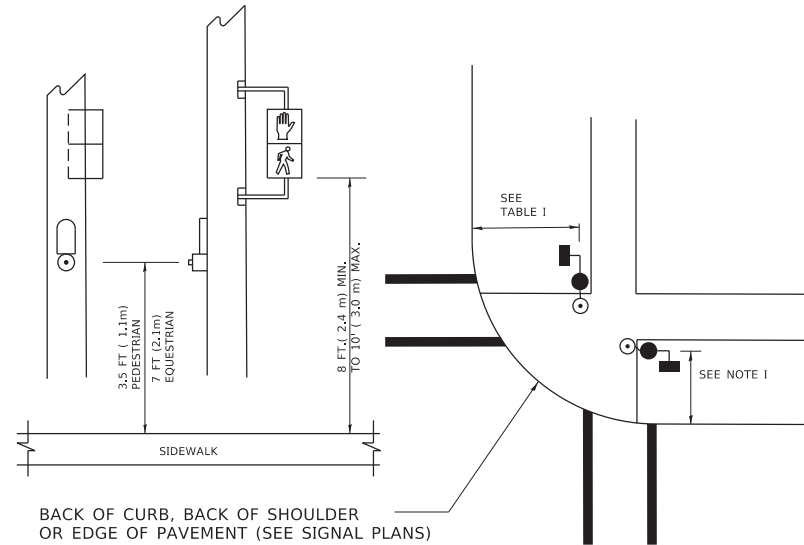
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



**NOTES:**

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

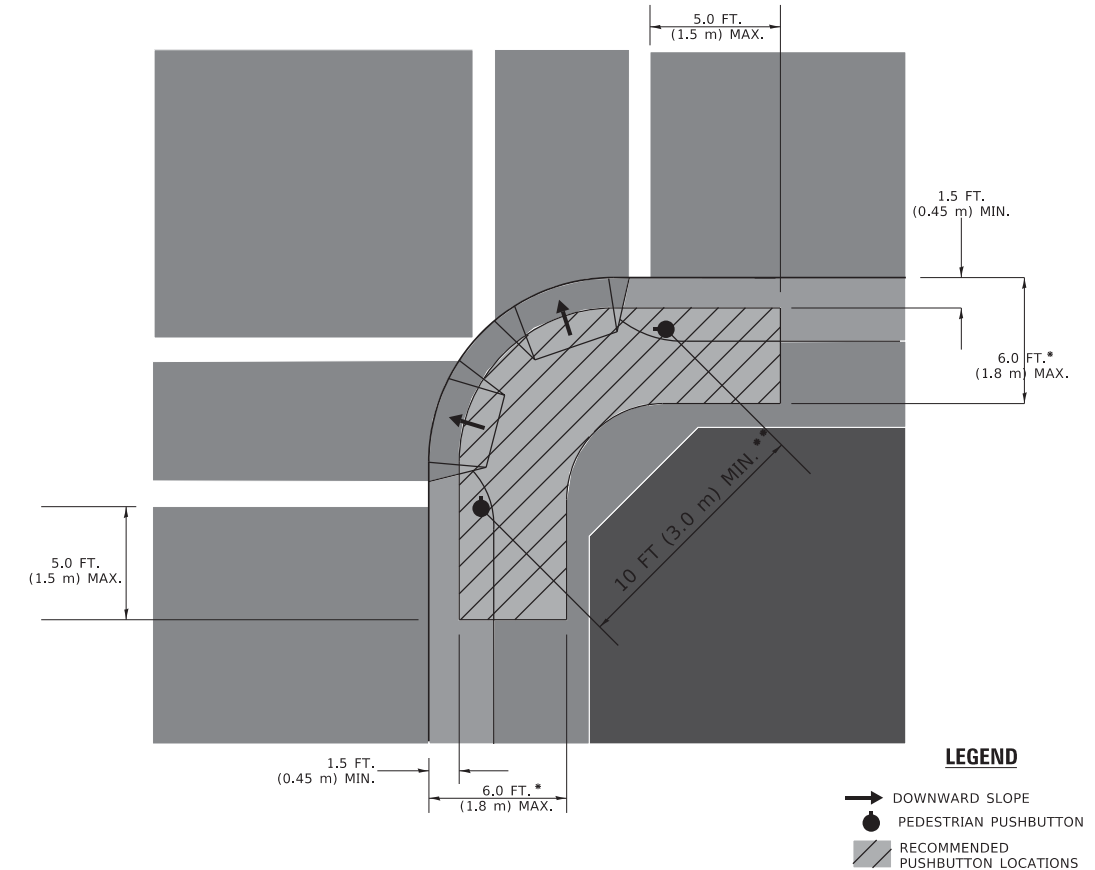
**PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST**



**NOTES:**

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

**RECOMMENDED PUSHBUTTON LOCATIONS**



- \* WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT ( 1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- \*\* WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

**NOTES:**

1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

**TRAFFIC SIGNAL EQUIPMENT OFFSET**

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

**NOTES:**

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

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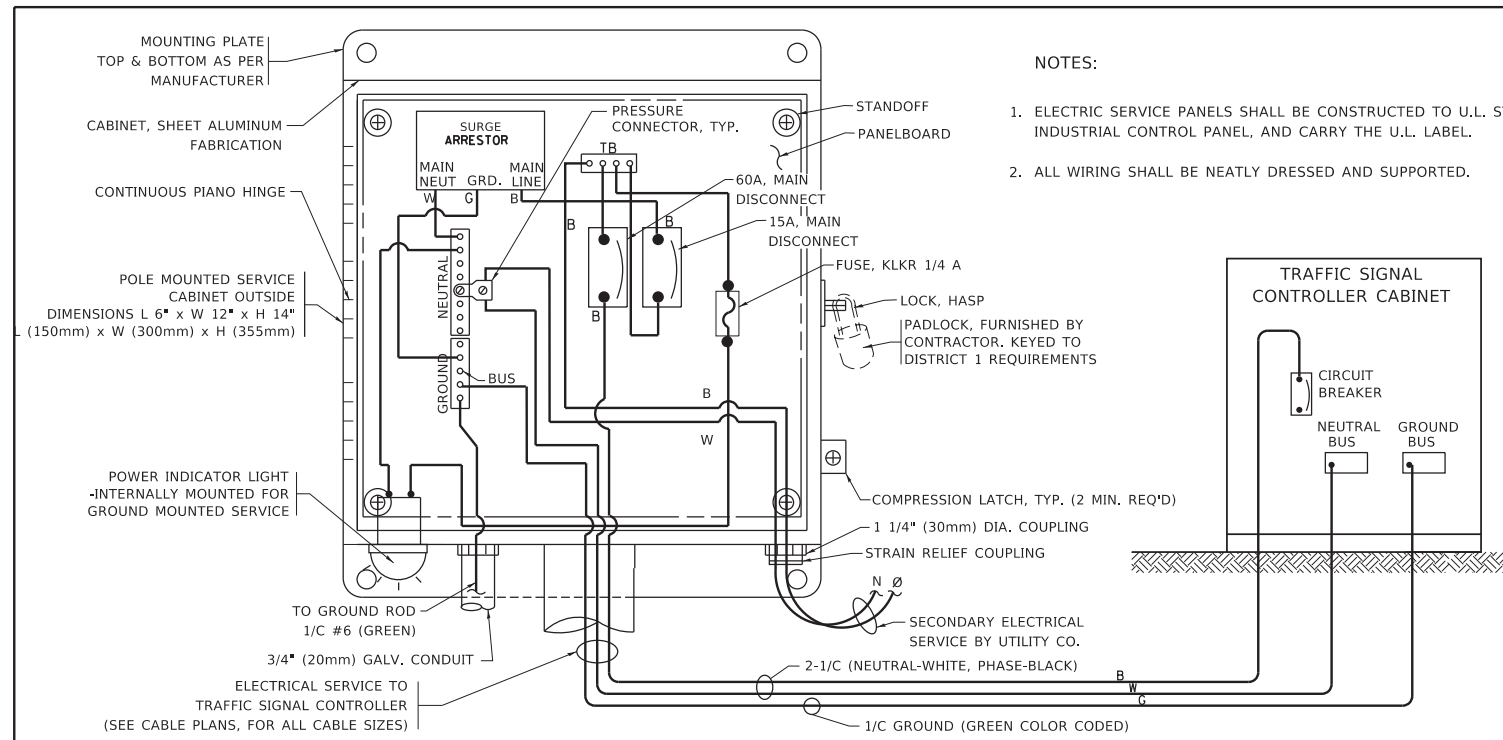
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

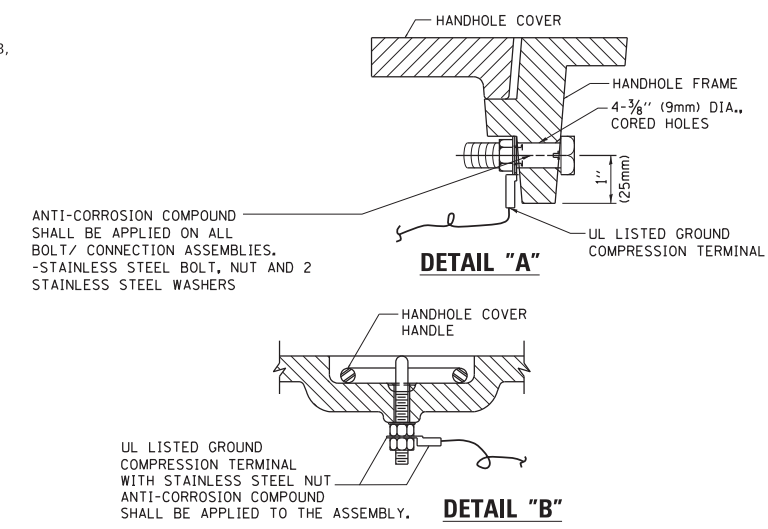
**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET 3 OF 7 SHEETS STA. TO STA.

F.A.U. RTE. MUN 2003A	SECTION 16-00094-00-PV	COUNTY COOK	TOTAL SHEETS 88	SHEET NO. 68
TS-05		CONTRACT NO. 61H47		
ILLINOIS FED. AID PROJECT				

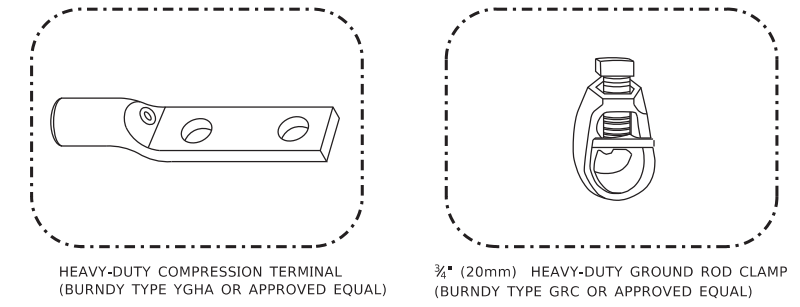
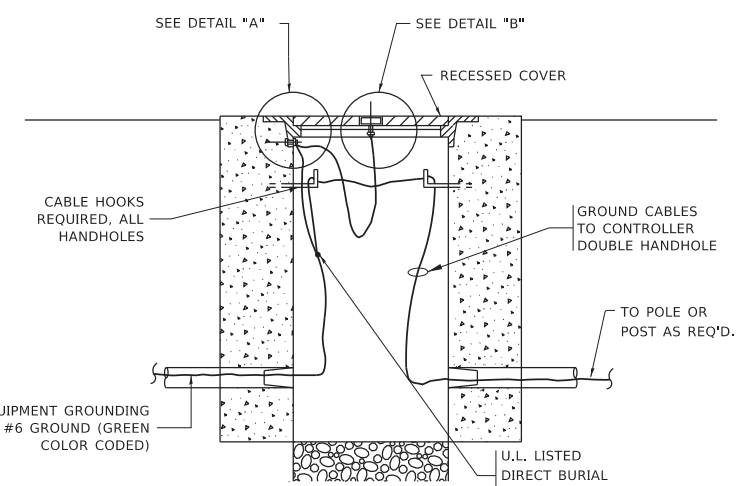


**ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)**  
**SERVICE INSTALLATION POLE MOUNT (SHOWN)**  
 (NOT TO SCALE)

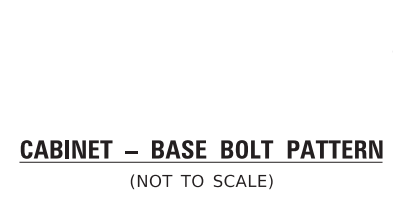
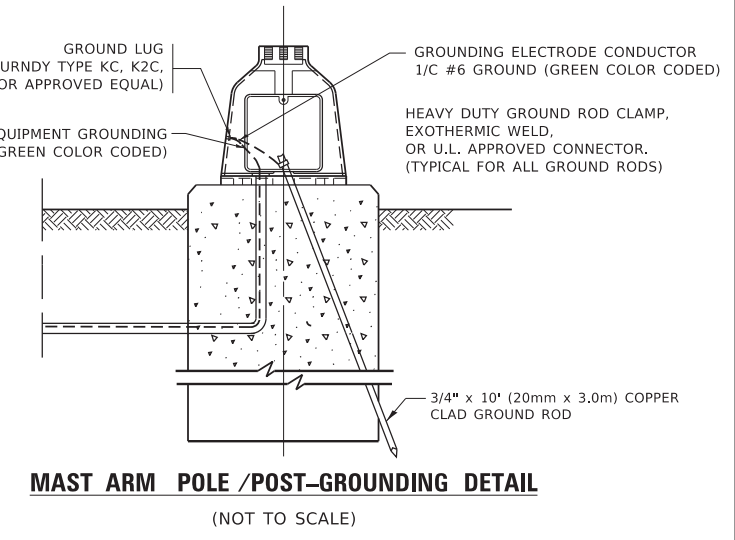
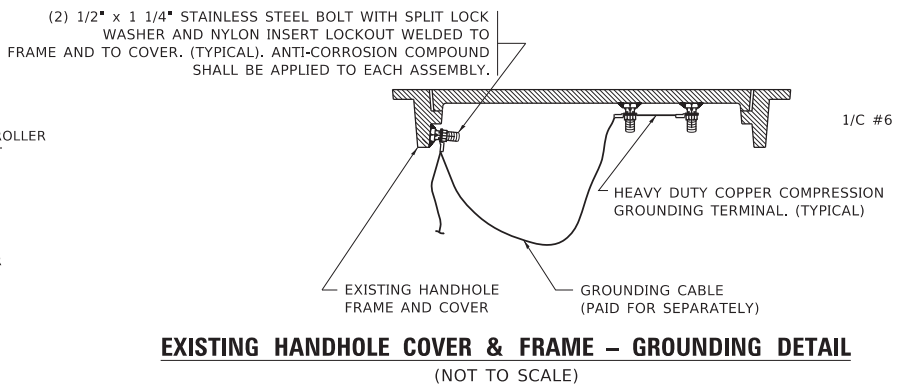
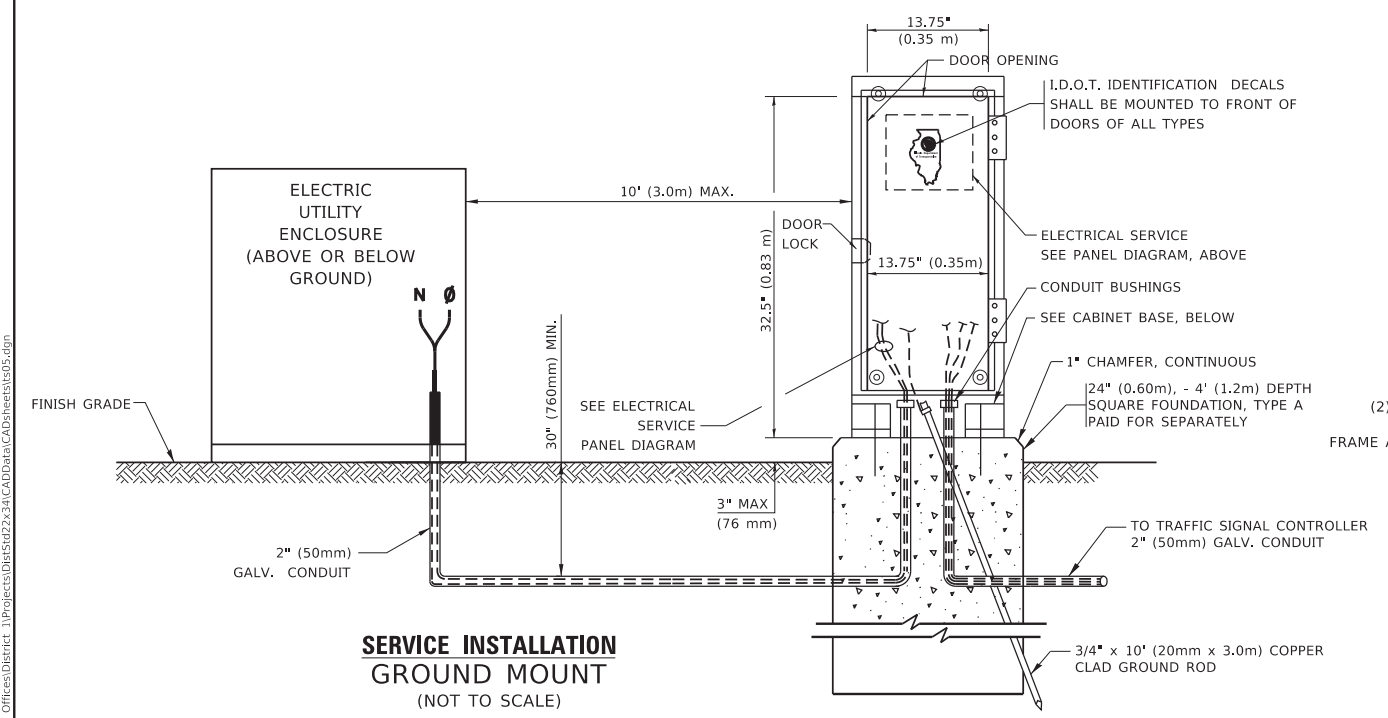


**NOTES:**  
**GROUNDING SYSTEM**

- THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
- THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
- ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
- THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



- NOTES:**
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
  - GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES
  - 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES
  - 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES.
  - 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



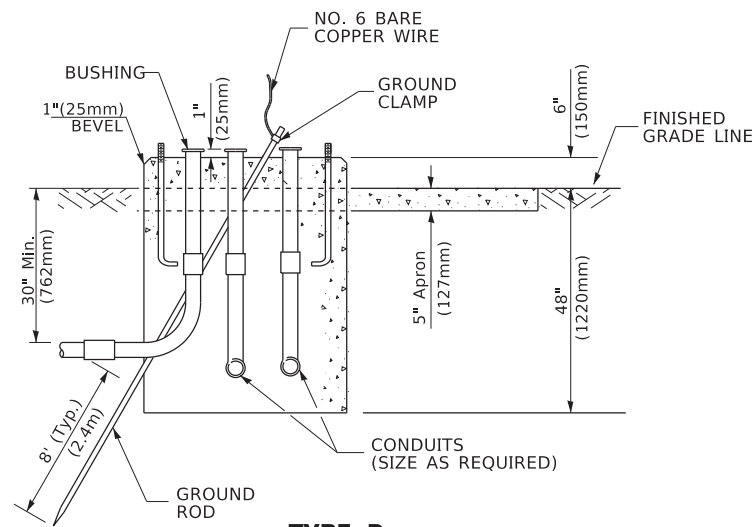
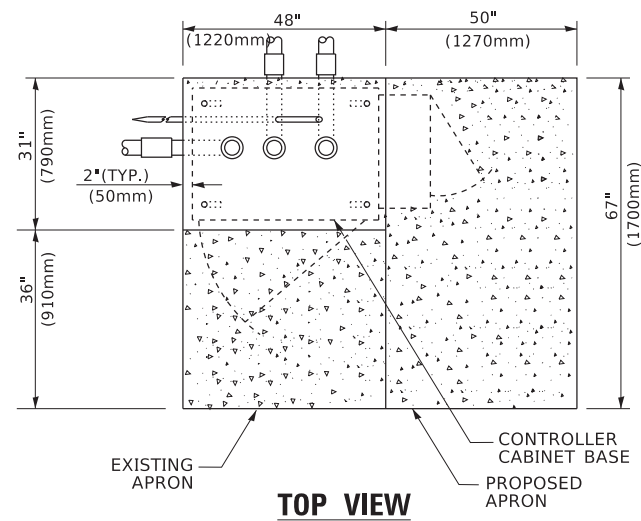
**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

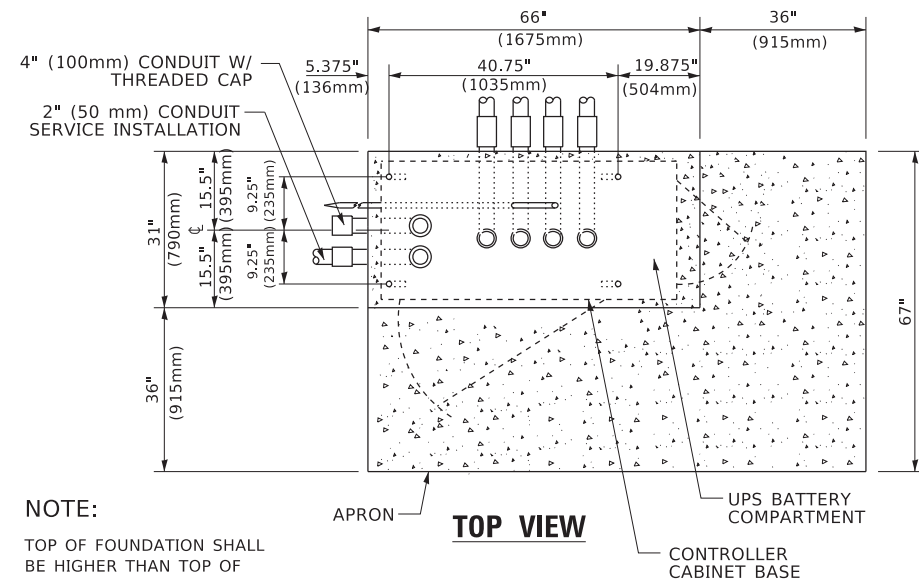
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MUN 2003A	16-00094-00-PV	COOK	88	69
TS-05		CONTRACT NO. 61H47		
ILLINOIS		FED. AID PROJECT		

SCALE: NONE SHEET 4 OF 7 SHEETS STA. TO STA.

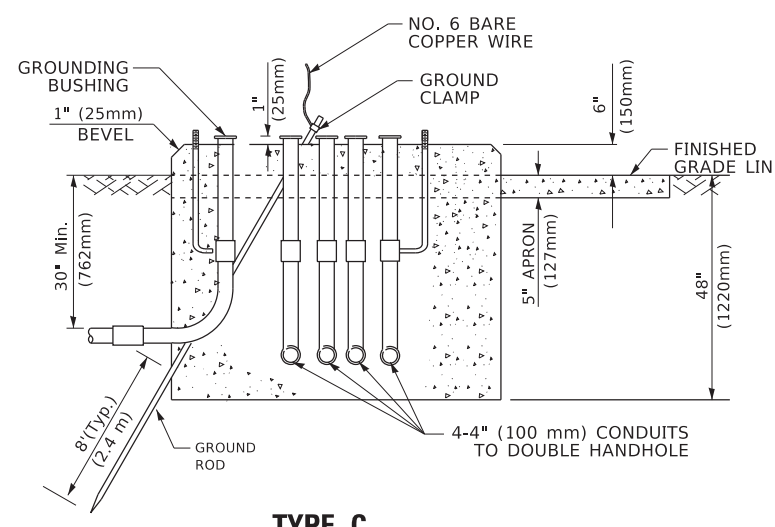
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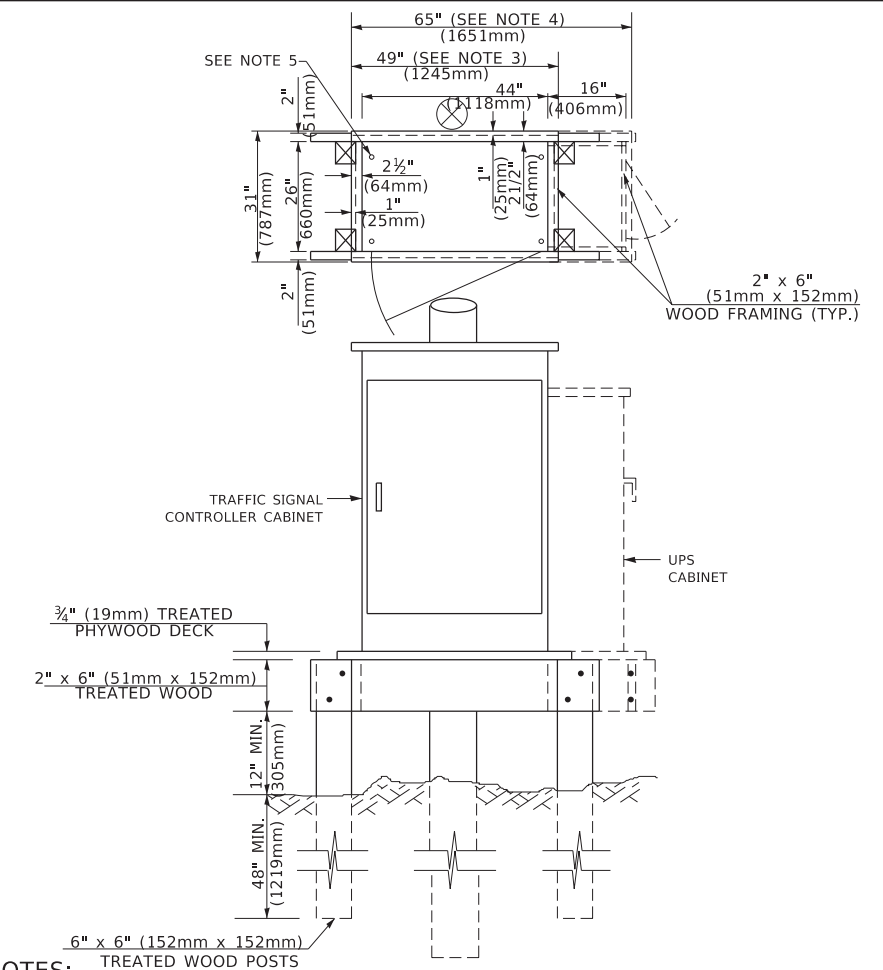
**TYPE D  
FOR GROUND MOUNTED  
CONTROLLER CABINET  
AND UPS BATTERY CABINET**



**NOTE:**  
TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



**TYPE C  
FOR GROUND MOUNTED  
SUPER P (TYPE IV) AND SUPER R (TYPE V)  
CONTROLLER CABINETS**



- NOTES:**
1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
  2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
  3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
  4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
  5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
  6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION..

**TEMPORARY SIGNAL CONTROLLER  
WOOD SUPPORT PLATFORM**

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

**CABLE SLACK**

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE ( MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

**VERTICAL CABLE LENGTH**

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

**DEPTH OF FOUNDATION**

MAST ARM LENGTH	① FOUNDATION DEPTH	FOUNDATION DIAMETER	SPIRAL DIAMETER	QUANTITY OF REBARS	SIZE OF REBARS
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and less than 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and less than 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

- NOTES:**
1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average unconfined compressive strength (qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
  2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
  3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
  4. For mast arm assemblies with dual arms refer to state standard 878001..

**DEPTH OF MAST ARM FOUNDATIONS, TYPE E**

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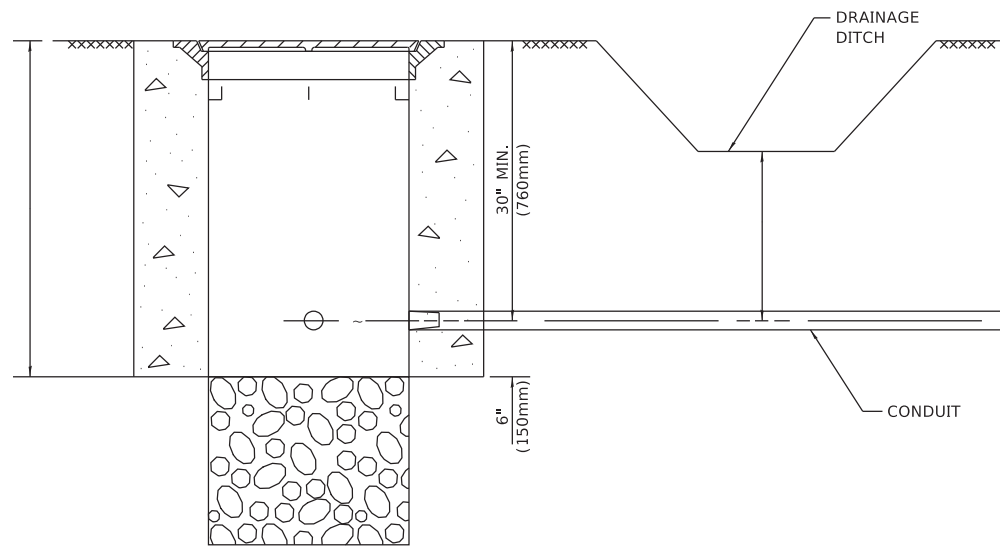
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET 5 OF 7 SHEETS STA. TO STA.

F.A.U. RTE. 2003A	SECTION 16-00094-00-PV	COUNTY COOK	TOTAL SHEETS 88	SHEET NO. 70
<b>TS-05</b>		CONTRACT NO. 61H47		
		ILLINOIS FED. AID PROJECT		

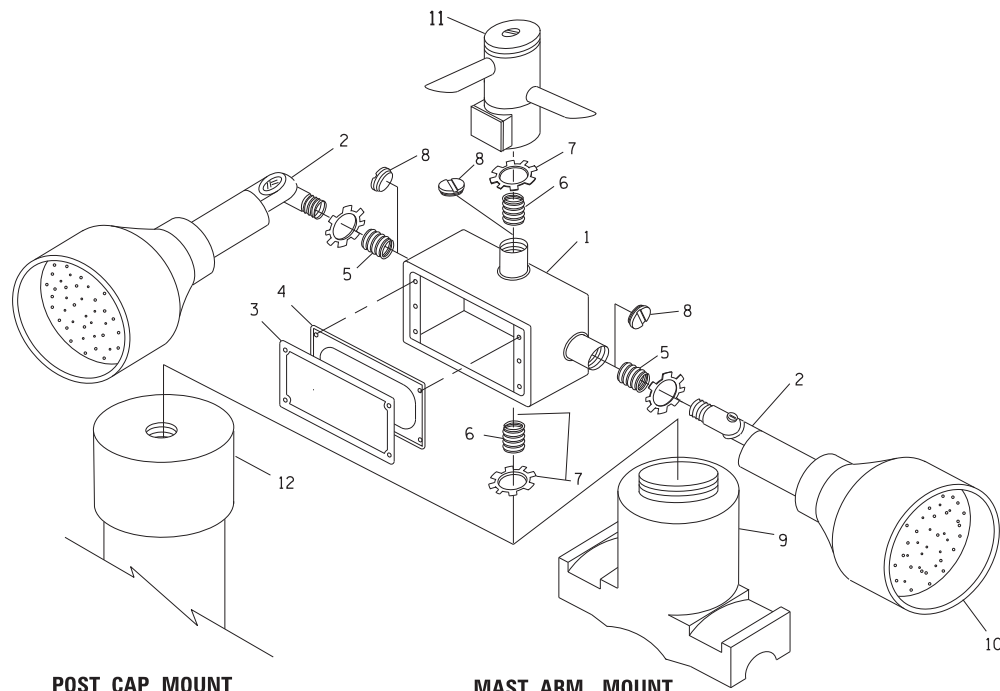




**NOTES:**

1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

**HANDHOLE WITH MINIMUM CONDUIT DEPTH**  
(NOT TO SCALE)

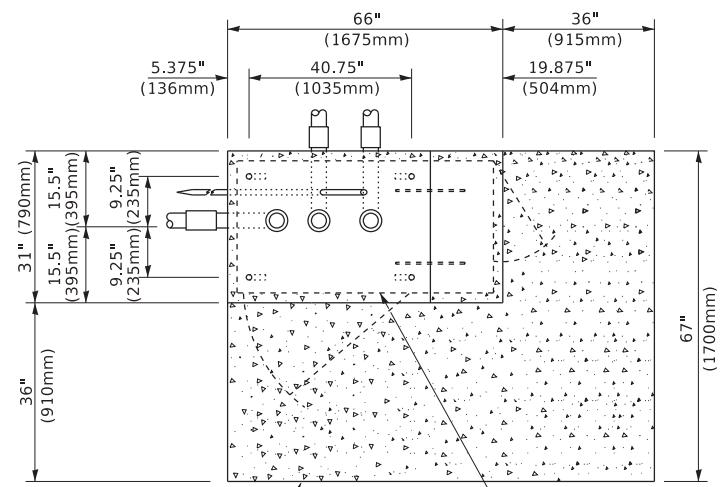


**POST CAP MOUNT**      **MAST ARM MOUNT**  
**EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION**  
**BEACON MOUNTING DETAIL**

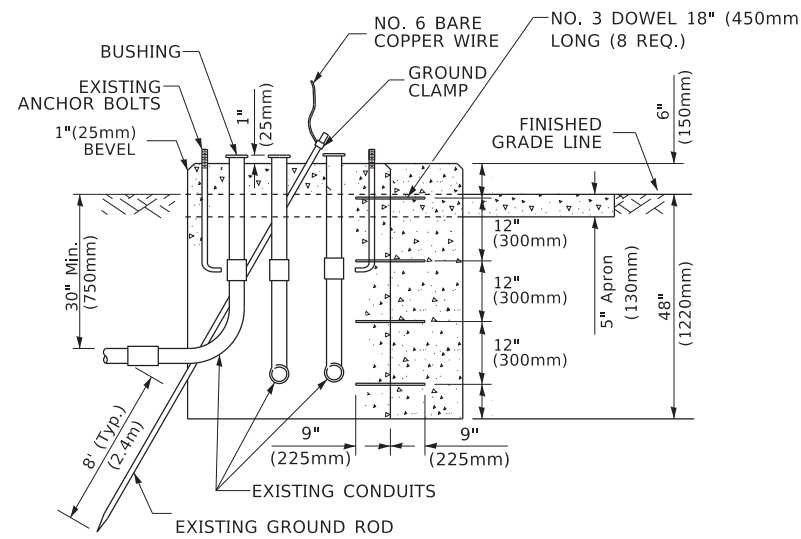
ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0,000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

**NOTES:**

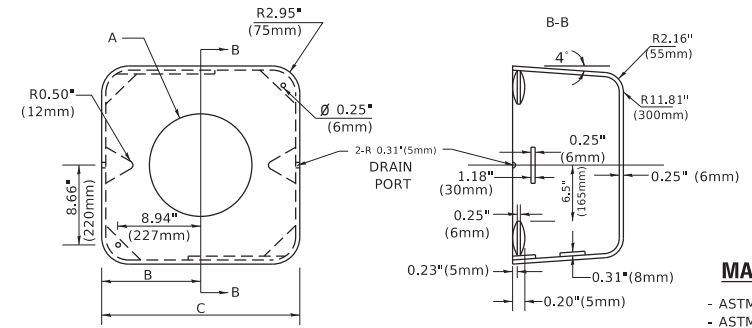
1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT  
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT  
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4" (19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



**TOP VIEW**  
(NOT TO SCALE)



**MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION**  
(NOT TO SCALE)



**MATERIAL**  
- ASTM A36 STEEL  
- ASTM A-123 HOT DIPPED GALVANIZED

A	B	C	HEIGHT	WEIGHT
VARIABLES	9.5" (241mm)	19" (483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIABLES	10.75" (273mm)	21.5" (546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIABLES	13.0" (330mm)	26" (660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIABLES	18.5" (470mm)	37" (940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

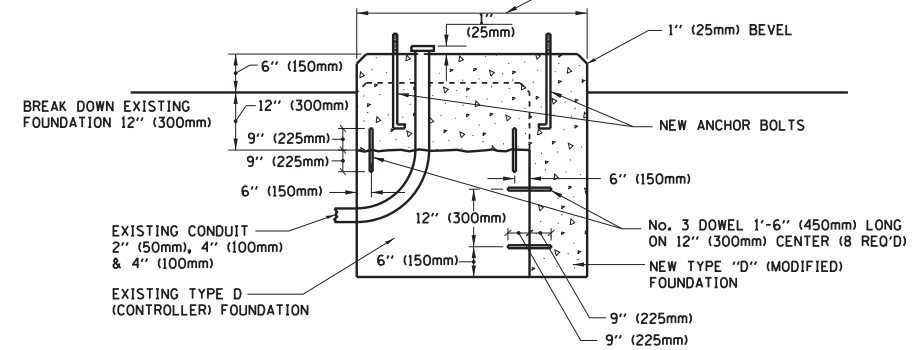
**SHROUD**

**NOTES:**

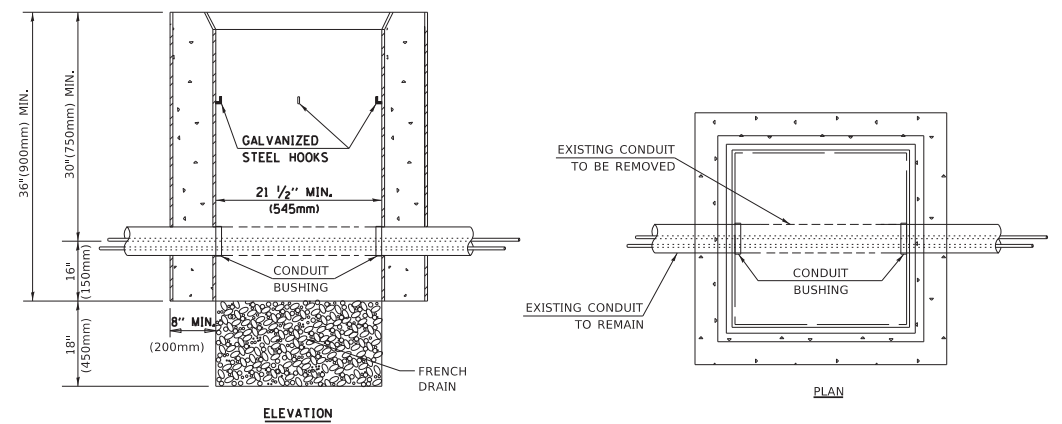
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

**NOTE:**

SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



**MODIFY EXISTING TYPE "D" FOUNDATION**



**NOTES:**

1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

**HANDHOLE TO INTERCEPT EXISTING CONDUIT**

MODEL: D:\draft... FILE: NAME: ... PROJECT: ...

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PLOT DATE = 3/4/2019	DATE -	REVISED -

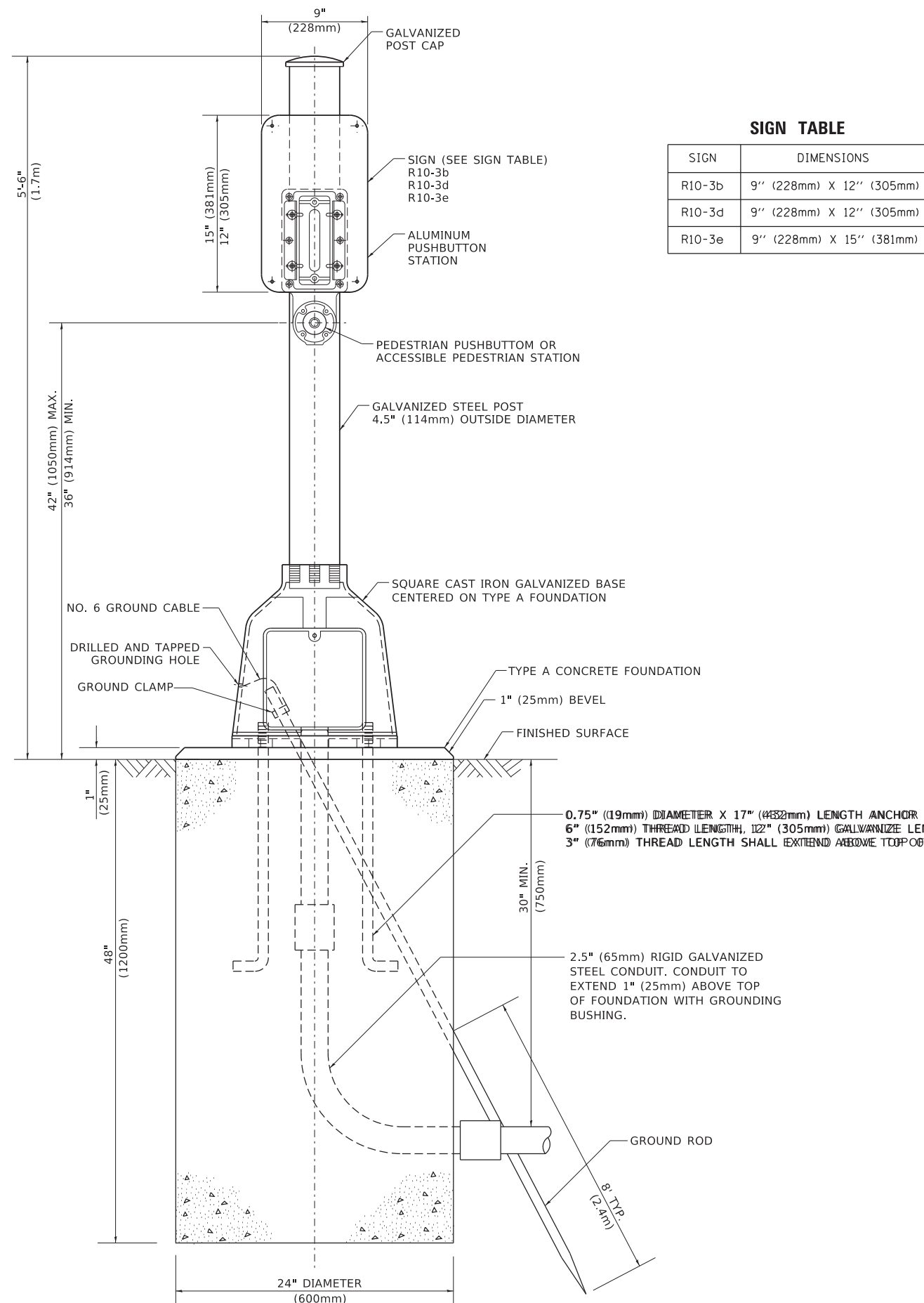
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE**  
**STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE    SHEET 6 OF 7 SHEETS    STA. TO STA.

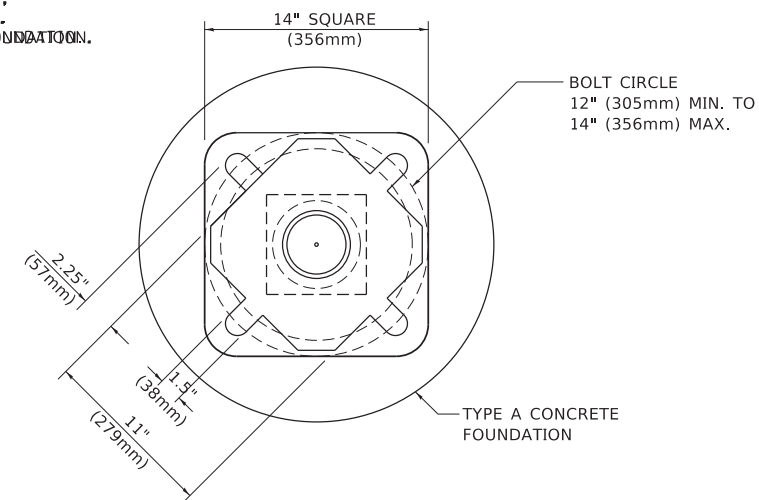
F.A. RTE. MUN. 2003A	SECTION 16-00094-00-PV	COUNTY COOK	TOTAL SHEETS 88	SHEET NO. 71
TS-05		CONTRACT NO. 61H47		
ILLINOIS FED. AID PROJECT				





**SIGN TABLE**

SIGN	DIMENSIONS
R10-3b	9" (228mm) X 12" (305mm)
R10-3d	9" (228mm) X 12" (305mm)
R10-3e	9" (228mm) X 15" (381mm)



**BOLT PATTERN**  
**PEDESTRIAN PUSH BUTTON POST, TYPE A**

MODEL: D:\draft\...  
FILE NAME: p:\u1108\EBID\NTEC\Illinois.gov\PWIDOT\Documents\DOT\_Offices\District\_1\Projects\1515122\234\CADD\Drawings\CAD\Sheet\1505.dgn

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	DRAWN -	REVISED -
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

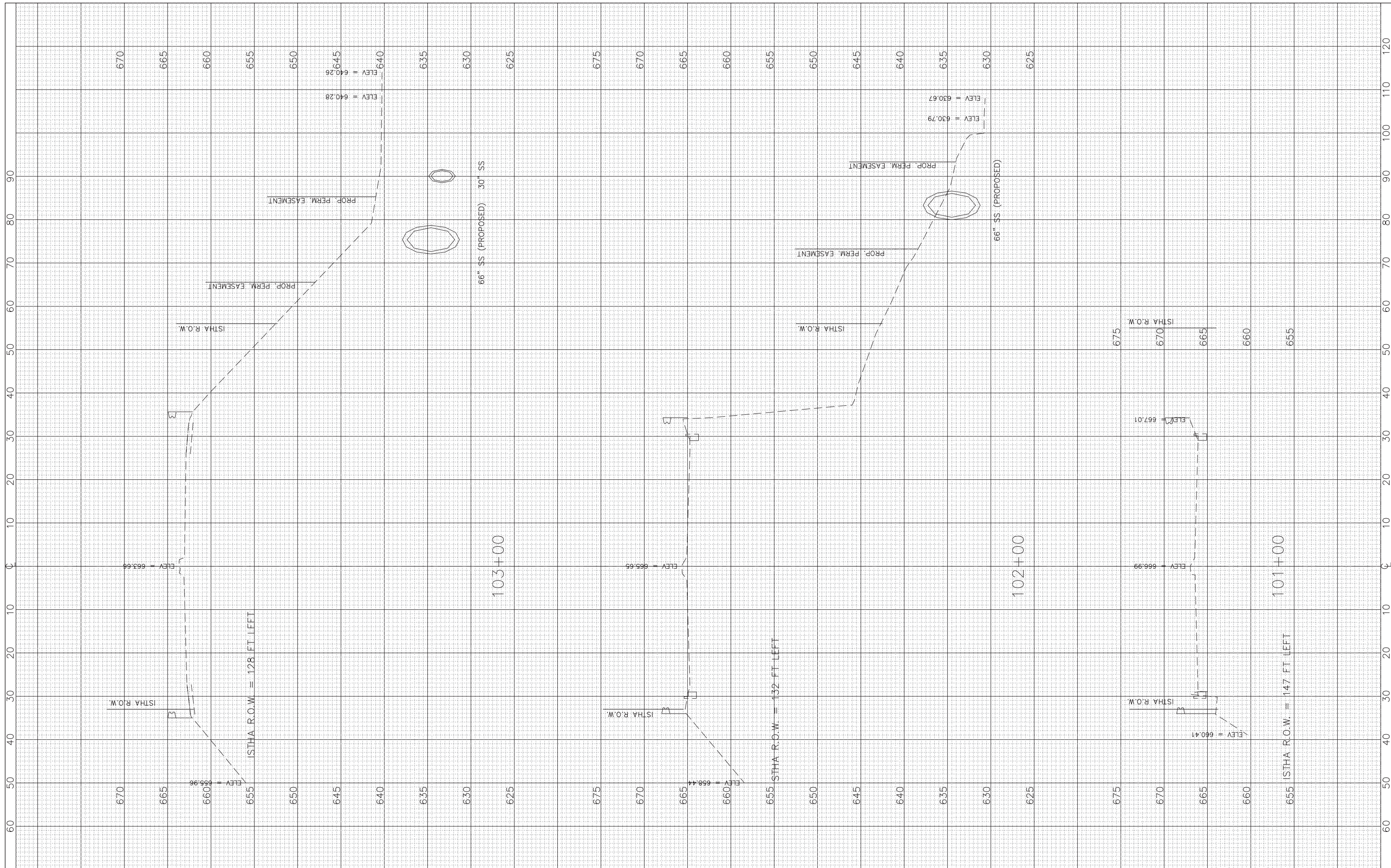
**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET 7 OF 7 SHEETS STA. TO STA.

F.A.U. RTE. 2003A	SECTION 16-00094-00-PV	COUNTY COOK	TOTAL SHEETS 88	SHEET NO. 72
TS-05		CONTRACT NO. 61H47		
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



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USER NAME =	DESIGNED — JY	REVISED —
PLOT SCALE: 1"=10' HOR, 1"=5' VERT.	DRAWN — JY	REVISED —
PLOT DATE =	CHECKED — JCZ	REVISED —
	DATE — 10/11/2021	REVISED —

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>CROSS SECTIONS 47TH STREET</b>	
1"=10' HOR. SCALE: 1"=5' VERT.	SHEET NO. 1 OF 6 SHEETS
STA. 101+00 TO STA. 103+00	

F.A.U. RTE. 2003A	SECTION 16-00094-00-PV	COUNTY COOK	TOTAL SHEETS 88	SHEET NO. 73
CONTRACT NO. 61H47				
ILLINOIS FED. AID PROJECT				

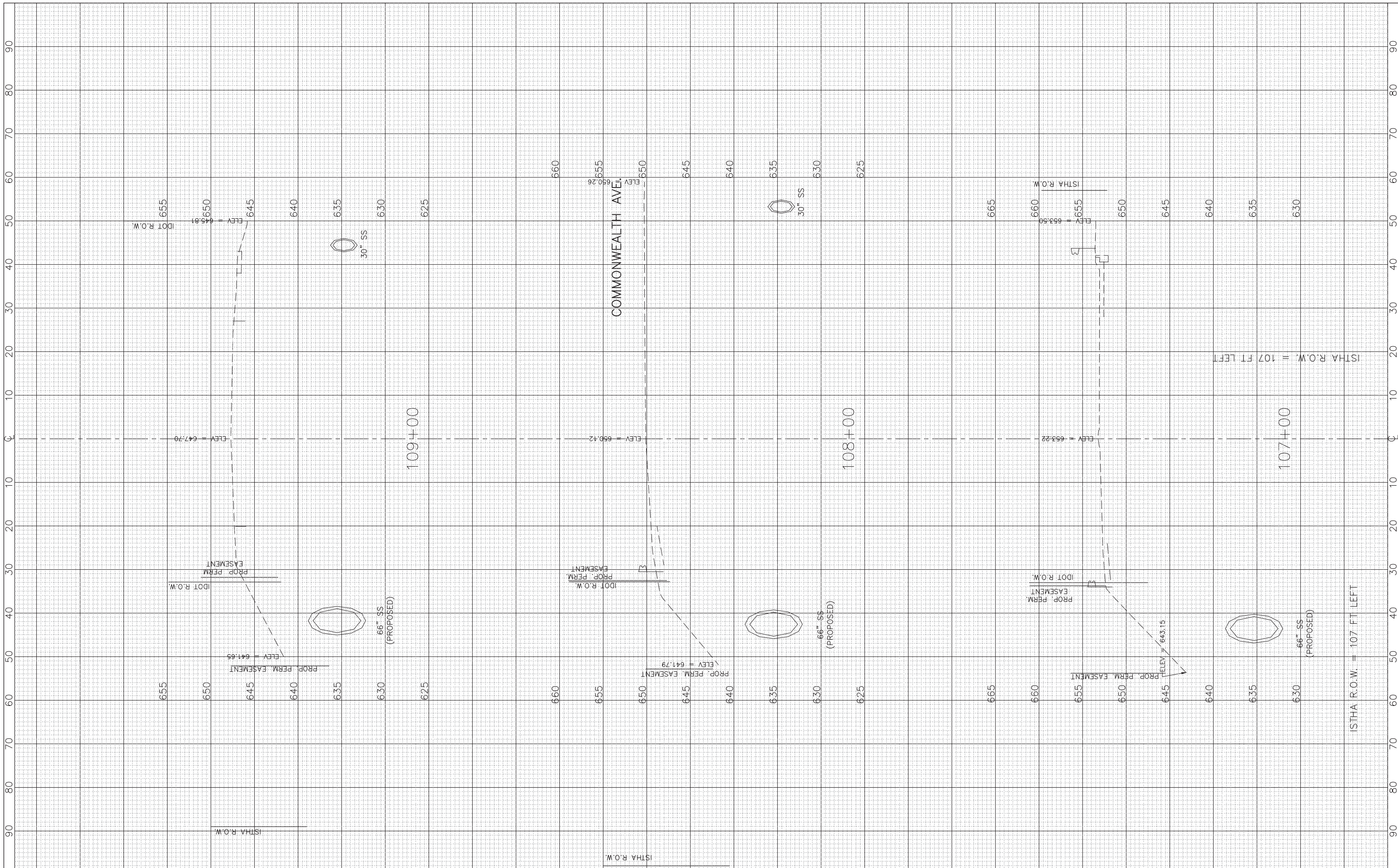






FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



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PLOT DATE =	CHECKED — JCZ	REVISED —
	DATE — 10/11/2021	REVISED —

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 47TH STREET**

1"=10' HOR.  
 SCALE: 1"=5' VERT. SHEET NO. 3 OF 6 SHEETS STA. 107+00 TO STA. 109+00

F.A.U. RTE. 2003A	SECTION 16-00094-00-PV	COUNTY COOK	TOTAL SHEETS 88	SHEET NO. 75
CONTRACT NO. 61H47			ILLINOIS FED. AID PROJECT	









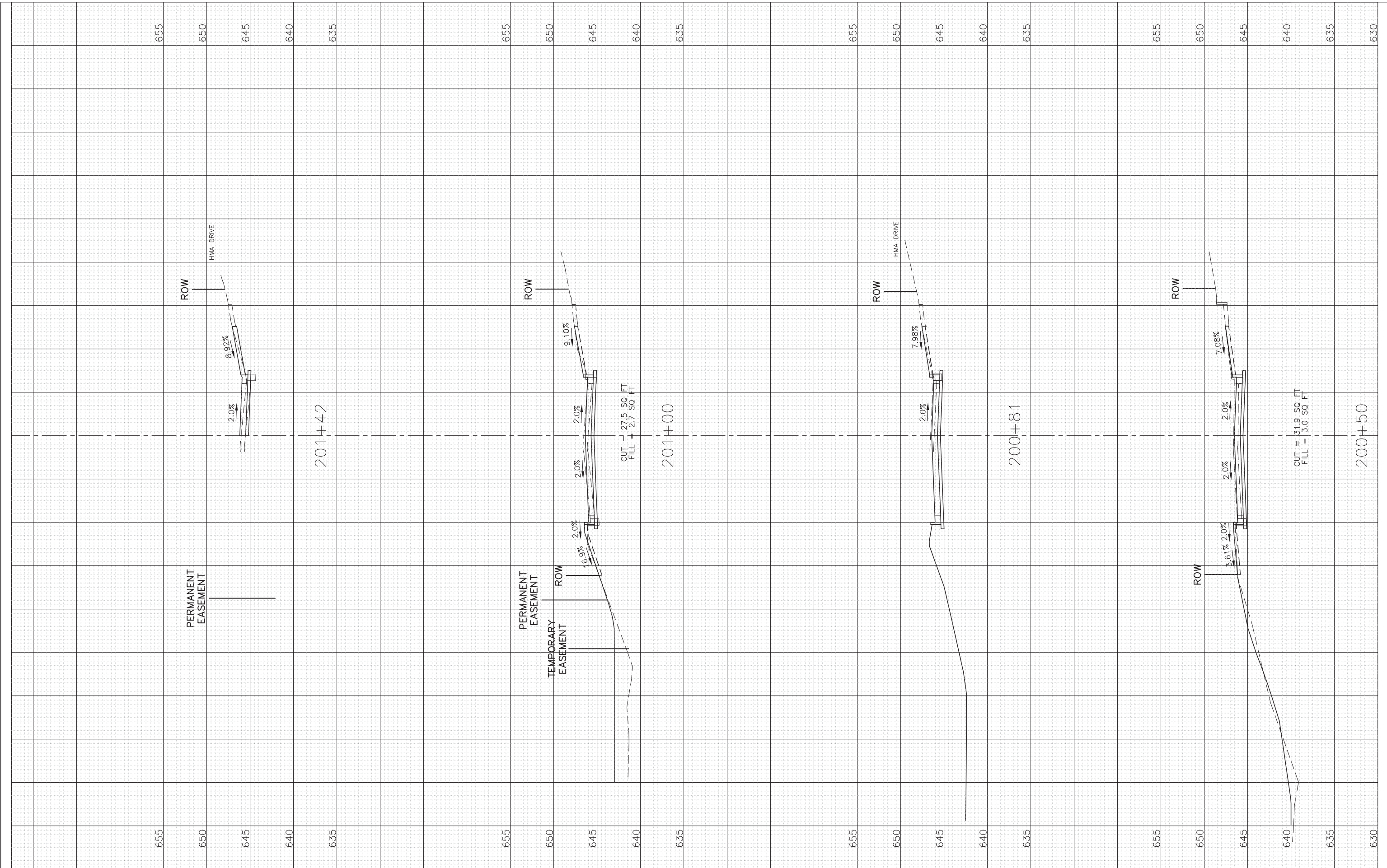






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NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

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



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PLOT SCALE: 1"=10' HOR, 1"=5' VERT.	DRAWN — JY	REVISED —
PLOT DATE =	CHECKED — JCZ	REVISED —
	DATE — 01/14/2022	REVISED —

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PRELIMINARY CROSS SECTIONS  
 CENTRAL AVENUE**

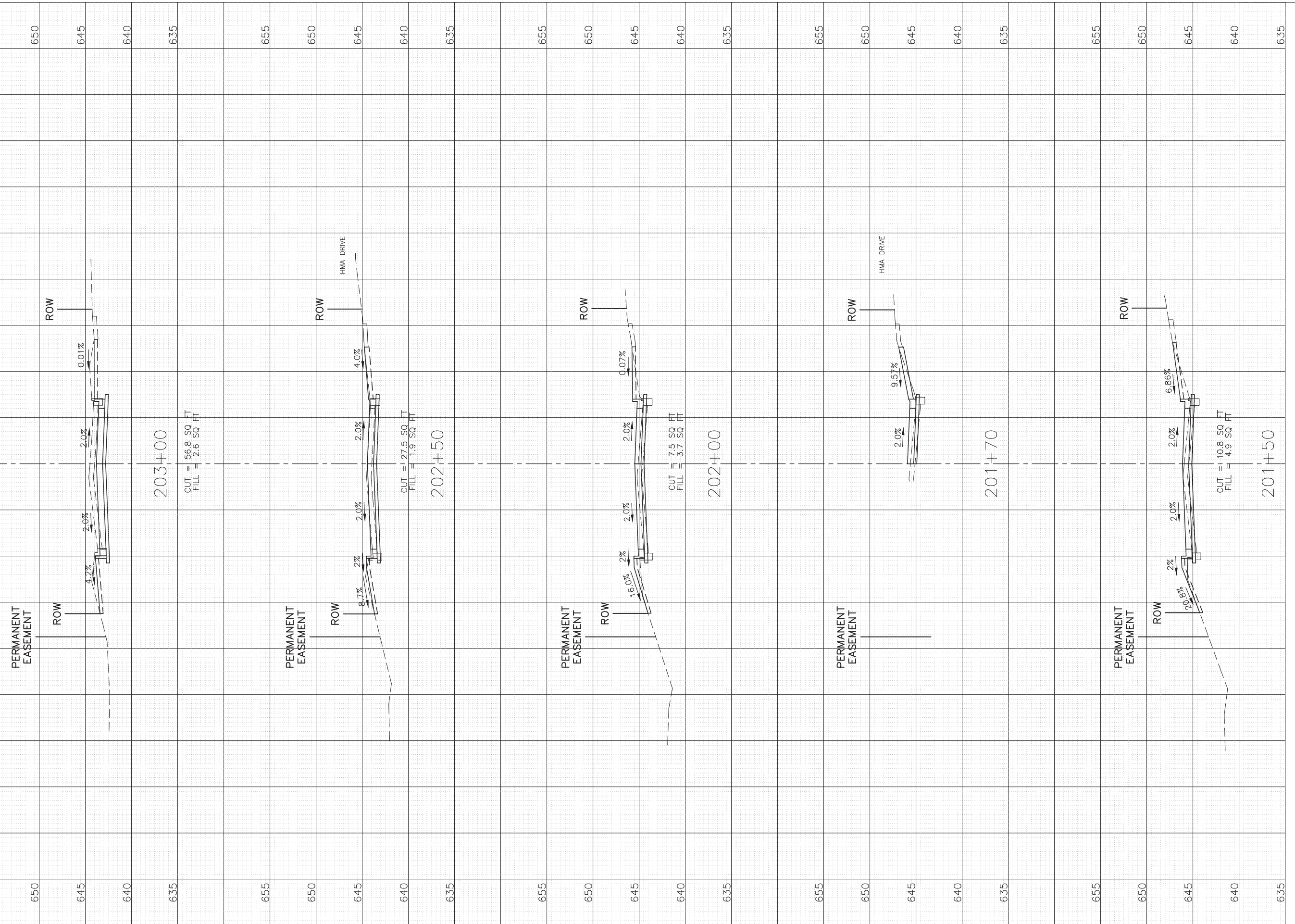
1"=10' HOR.  
 SCALE: 1"=5' VERT. SHEET NO. 1 OF 10 SHEETS STA. 200+50 TO STA. 201+42

F.A.U. RT. MUN 2003A	SECTION 16-00094-00-PV	COUNTY COOK	TOTAL SHEETS 88	SHEET NO. 79
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H47	



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

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



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USER NAME =	DESIGNED - JY	REVISED -
PLOT SCALE: 1"=10' HOR, 1"=5' VERT.	DRAWN - JY	REVISED -
PLOT DATE =	CHECKED - JCZ	REVISED -
	DATE 01/14/2022	REVISED -

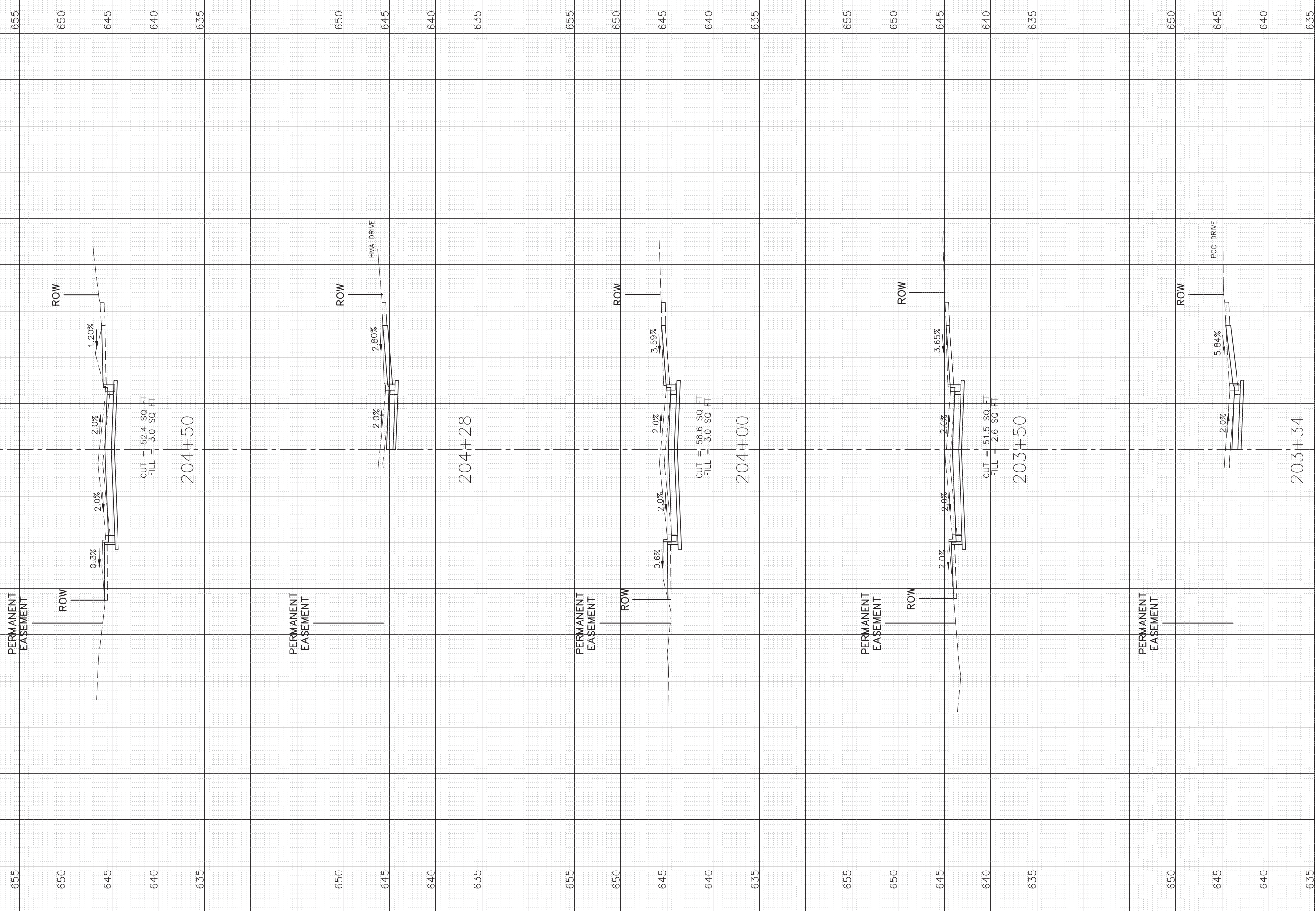
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PRELIMINARY CROSS SECTIONS  
 CENTRAL AVENUE**  
 1"=10' HOR.  
 SCALE: 1"=5' VERT. SHEET NO. 2 OF 10 SHEETS STA. 201+50 TO STA. 203+00

F.A.U. RT. 2003A	SECTION 16-0094-00-PV	COUNTY COOK	TOTAL SHEETS 88	SHEET NO. 80
				CONTRACT NO. 61H47
ILLINOIS FED. AID PROJECT				

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

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



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PLOT SCALE: 1"=10' HOR, 1"=5' VERT.	DRAWN — JY	REVISED —
PLOT DATE =	CHECKED — JCZ	REVISED —
	DATE — 01/14/2022	REVISED —

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

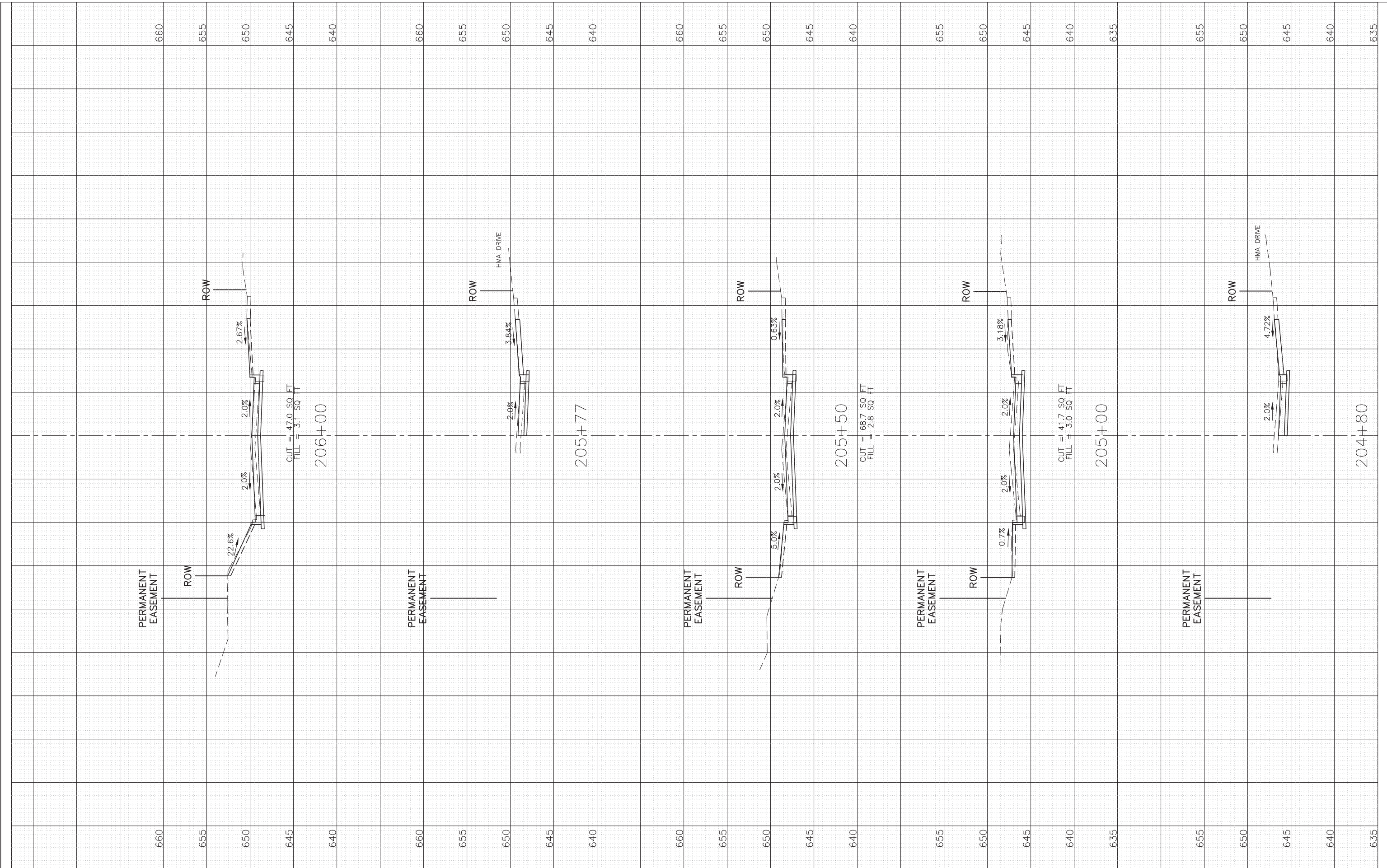
<b>PRELIMINARY CROSS SECTIONS CENTRAL AVENUE</b>		
1"=10' HOR.	SHEET NO. 3 OF 10 SHEETS	STA. 203+34 TO STA. 204+50
SCALE: 1"=5' VERT.		

F.A.U. RT. 2003A	SECTION 16-00094-00-PV	COUNTY COOK	TOTAL SHEETS 88	SHEET NO. 81
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H47	



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

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



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PLOT SCALE: 1"=10' HOR, 1"=5' VERT.	DRAWN — JY	REVISED —
PLOT DATE =	CHECKED — JCZ	REVISED —
	DATE — 01/14/2022	REVISED —

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PRELIMINARY CROSS SECTIONS  
CENTRAL AVENUE**

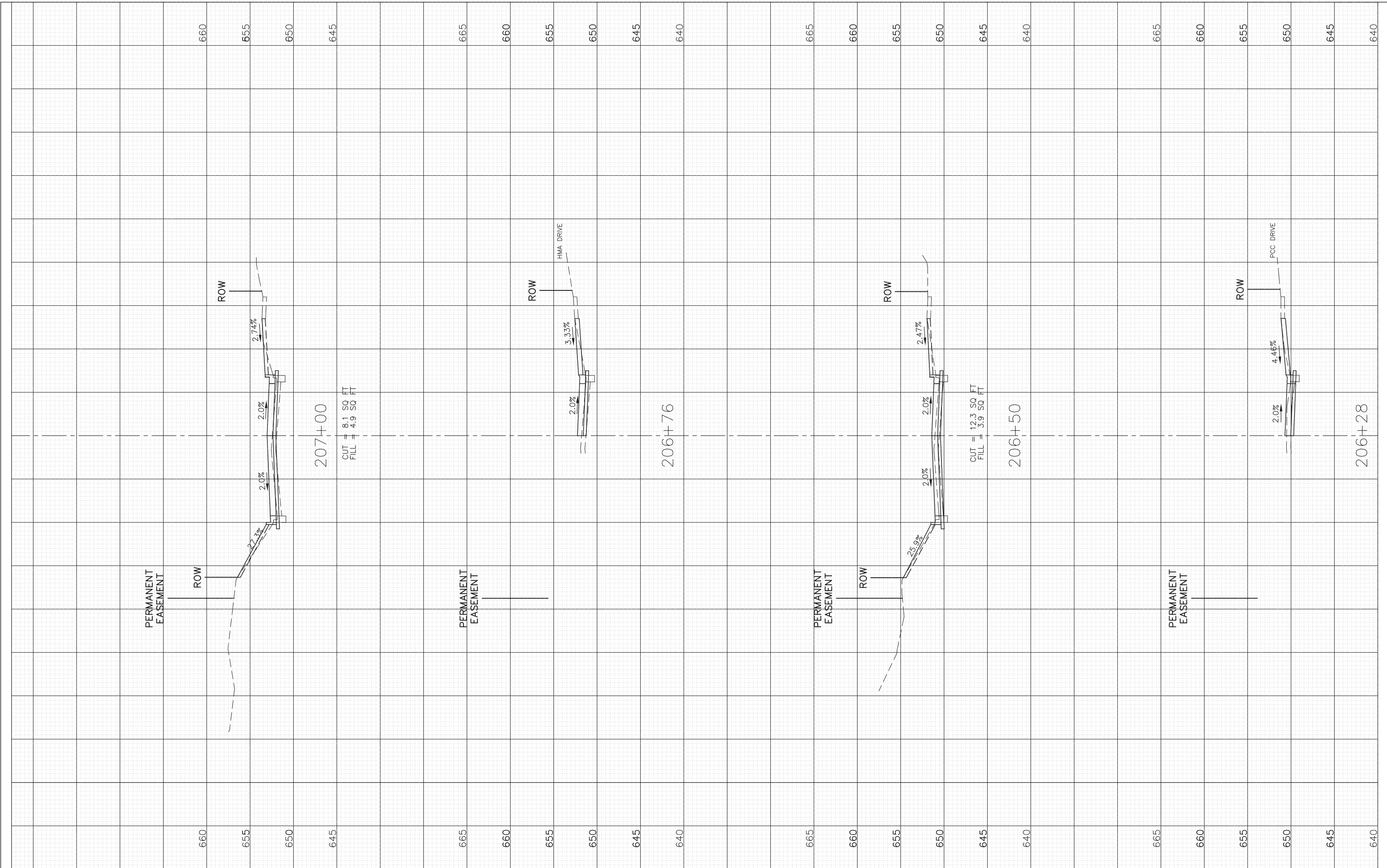
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SCALE: 1"=5' VERT. SHEET NO. 4 OF 10 SHEETS STA. 204+80 TO STA. 206+00

F.A.U. RT. 2003A	SECTION 16-00094-00-PV	COUNTY COOK	TOTAL SHEETS 88	SHEET NO. 82
				CONTRACT NO. 61H47
ILLINOIS FED. AID PROJECT				



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

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



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PLOT SCALE: 1"=10' HOR, 1"=5' VERT.	DRAWN - JY	REVISED -
PLOT DATE =	CHECKED - JCZ	REVISED -
	DATE - 01/14/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

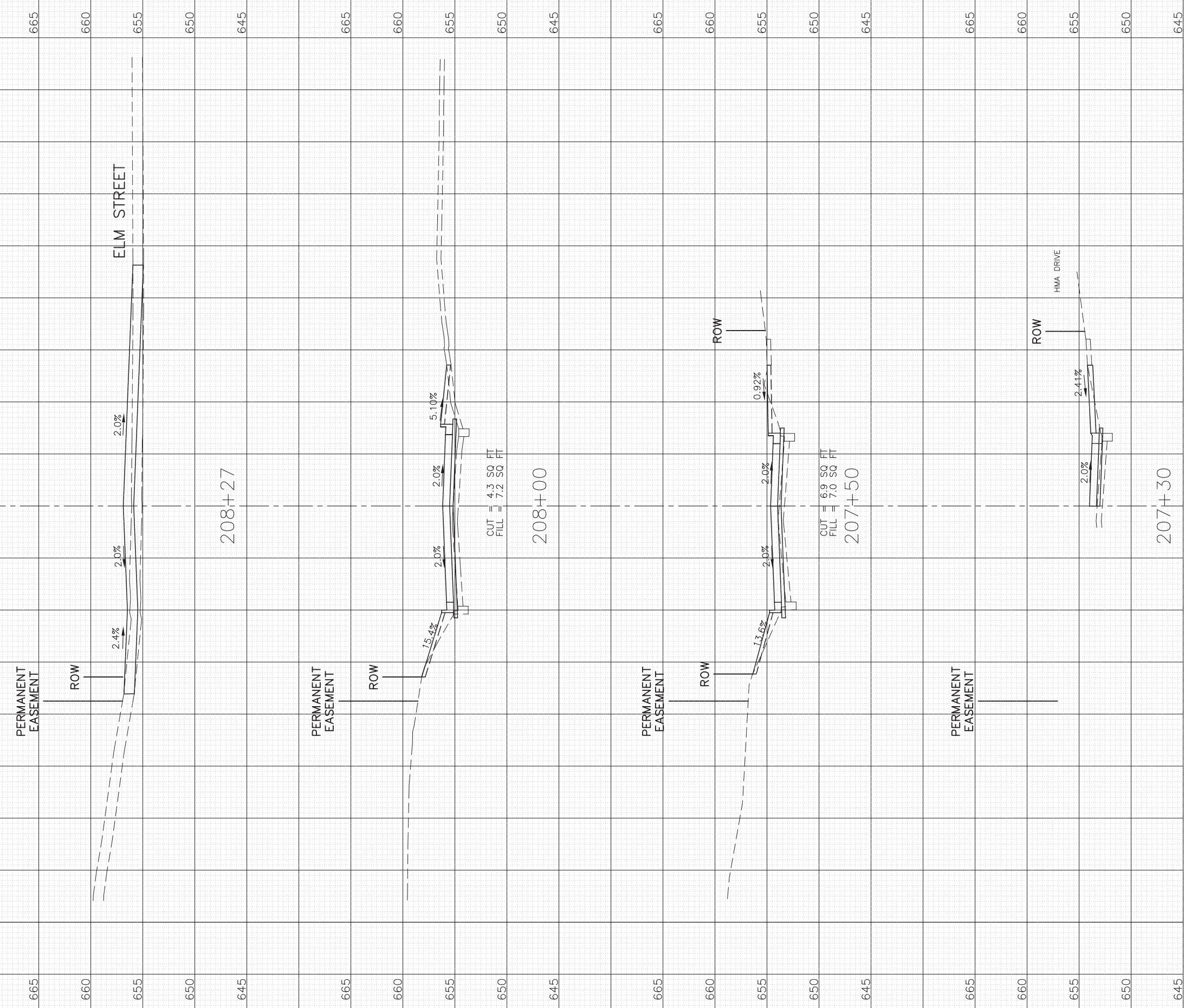
**PRELIMINARY CROSS SECTIONS  
CENTRAL AVENUE**

1"=10' HOR.  
SCALE: 1"=5' VERT. SHEET NO. 5 OF 10 SHEETS STA. 206+28 TO STA. 207+00

F.A.U. RT. 2003A	SECTION 16-00094-00-PV	COUNTY COOK	TOTAL SHEETS 88	SHEET NO. 83
			CONTRACT NO. 61H47	
ILLINOIS FED. AID PROJECT				

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

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
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PLOT DATE =	CHECKED — JCZ	REVISED —
	DATE — 01/14/2022	REVISED —

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

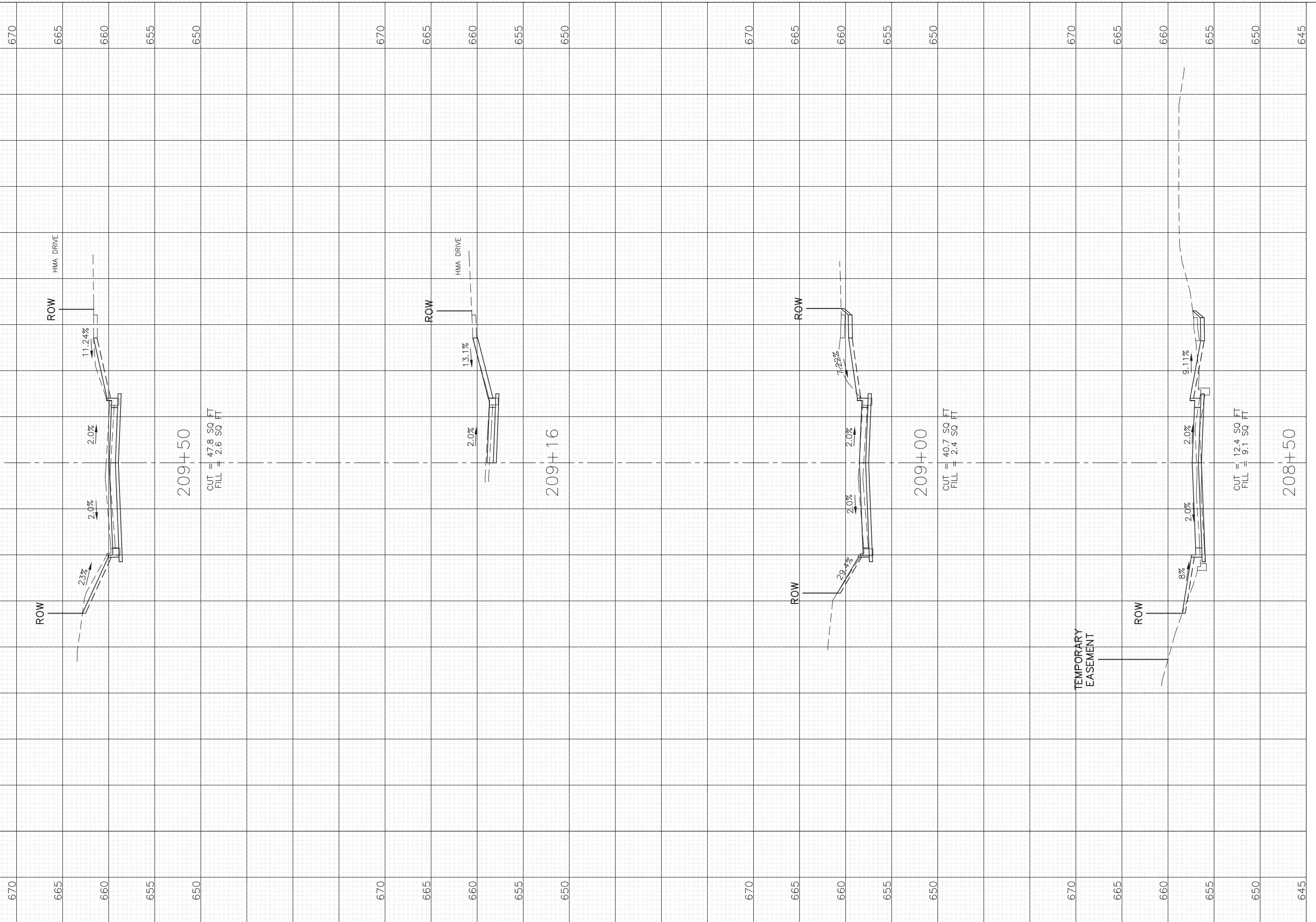
**PRELIMINARY CROSS SECTIONS  
 CENTRAL AVENUE**  
 SCALE: 1"=5' VERT. SHEET NO. 6 OF 10 SHEETS STA. 207+30 TO STA. 208+27

F.A.U. RT. 2003A	SECTION 16-00094-00-PV	COUNTY COOK	TOTAL SHEETS 88	SHEET NO. 84
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H47	



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

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



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PLOT SCALE: 1"=10' HOR, 1"=5' VERT.	DRAWN — JY	REVISED —
PLOT DATE =	CHECKED — JCZ	REVISED —
	DATE — 01/14/2022	REVISED —

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PRELIMINARY CROSS SECTIONS  
 CENTRAL AVENUE**

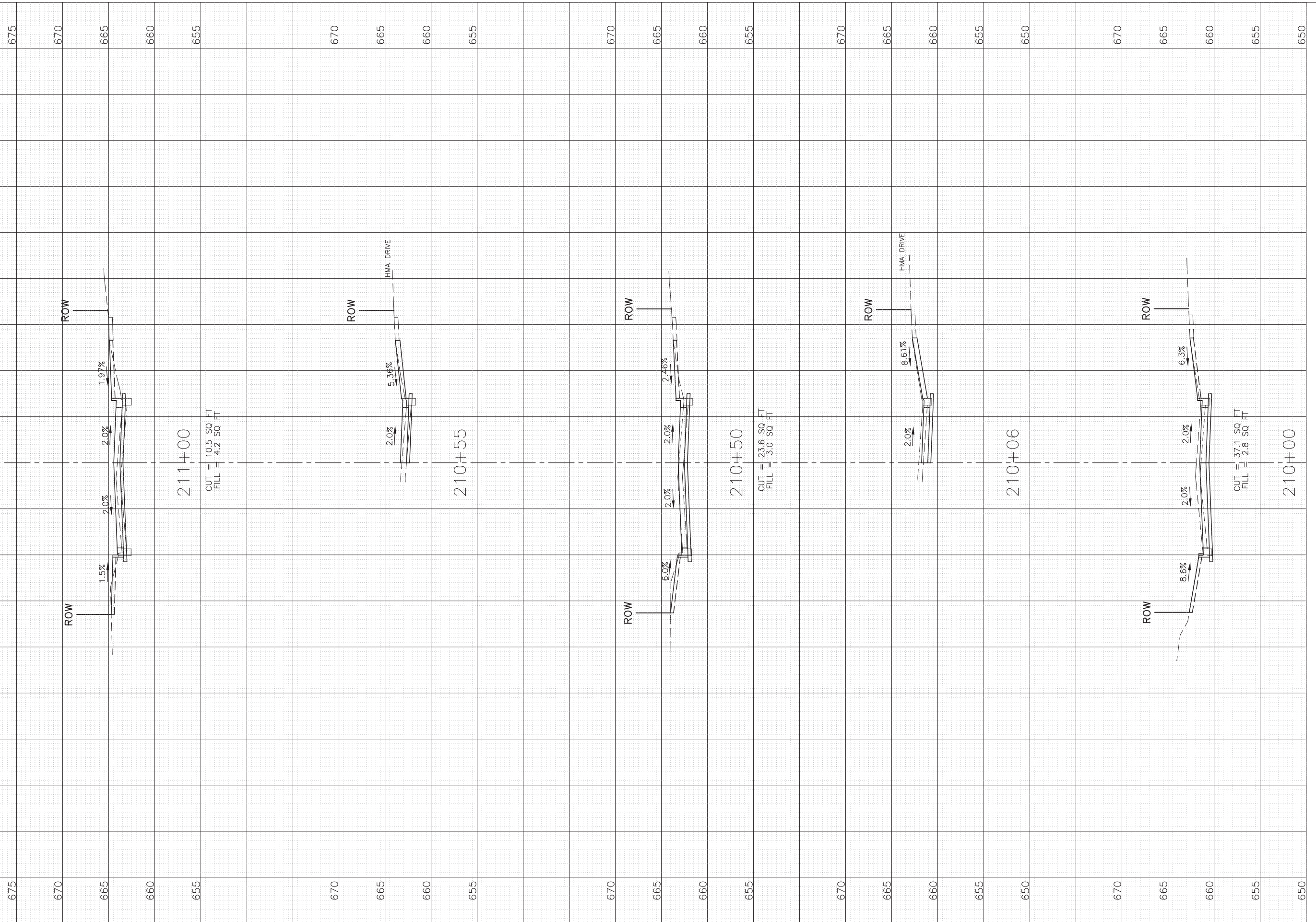
1"=10' HOR.  
 SCALE: 1"=5' VERT. SHEET NO. 7 OF 10 SHEETS STA. 208+50 TO STA. 209+50

F.A.U. RT. 2003A	SECTION 16-00094-00-PV	COUNTY COOK	TOTAL SHEETS 88	SHEET NO. 85
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H47	



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

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



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USER NAME =	DESIGNED - JY	REVISED -
PLOT SCALE: 1"=10' HOR, 1"=5' VERT.	DRAWN - JY	REVISED -
PLOT DATE =	CHECKED - JCZ	REVISED -
	DATE - 01/14/2022	REVISED -

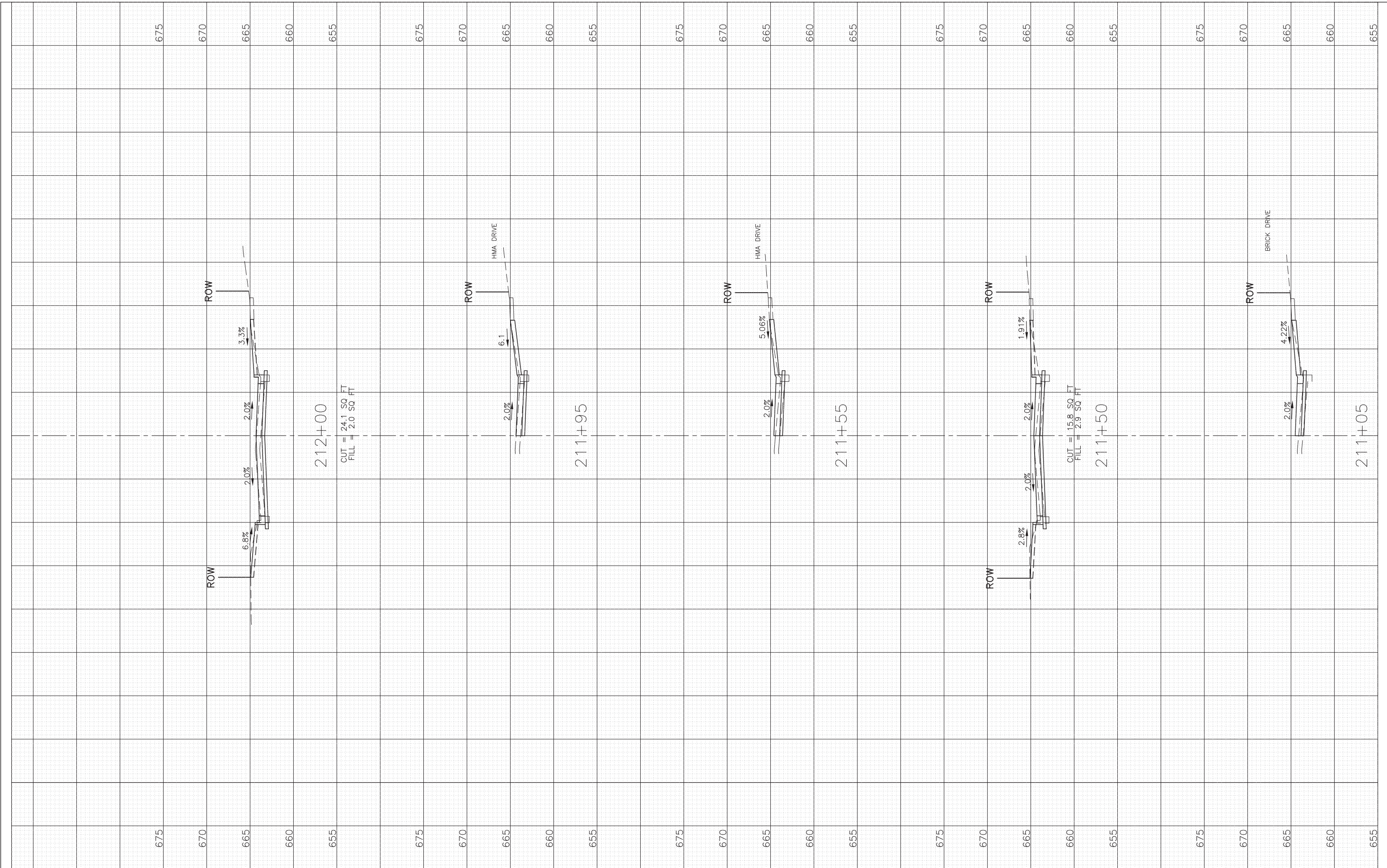
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PRELIMINARY CROSS SECTIONS  
 CENTRAL AVENUE**  
 1"=10' HOR.  
 SCALE: 1"=5' VERT. SHEET NO. 8 OF 10 SHEETS STA. 210+00 TO STA. 211+00

F.A.U. RT. 2003A	SECTION 16-00094-00-PV	COUNTY COOK	TOTAL SHEETS 88	SHEET NO. 86
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H47	

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
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ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
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PLOT SCALE: 1"=10' HOR, 1"=5' VERT.	DRAWN - JY	REVISED -
PLOT DATE =	CHECKED - JCZ	REVISED -
	DATE - 01/14/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PRELIMINARY CROSS SECTIONS  
CENTRAL AVENUE**

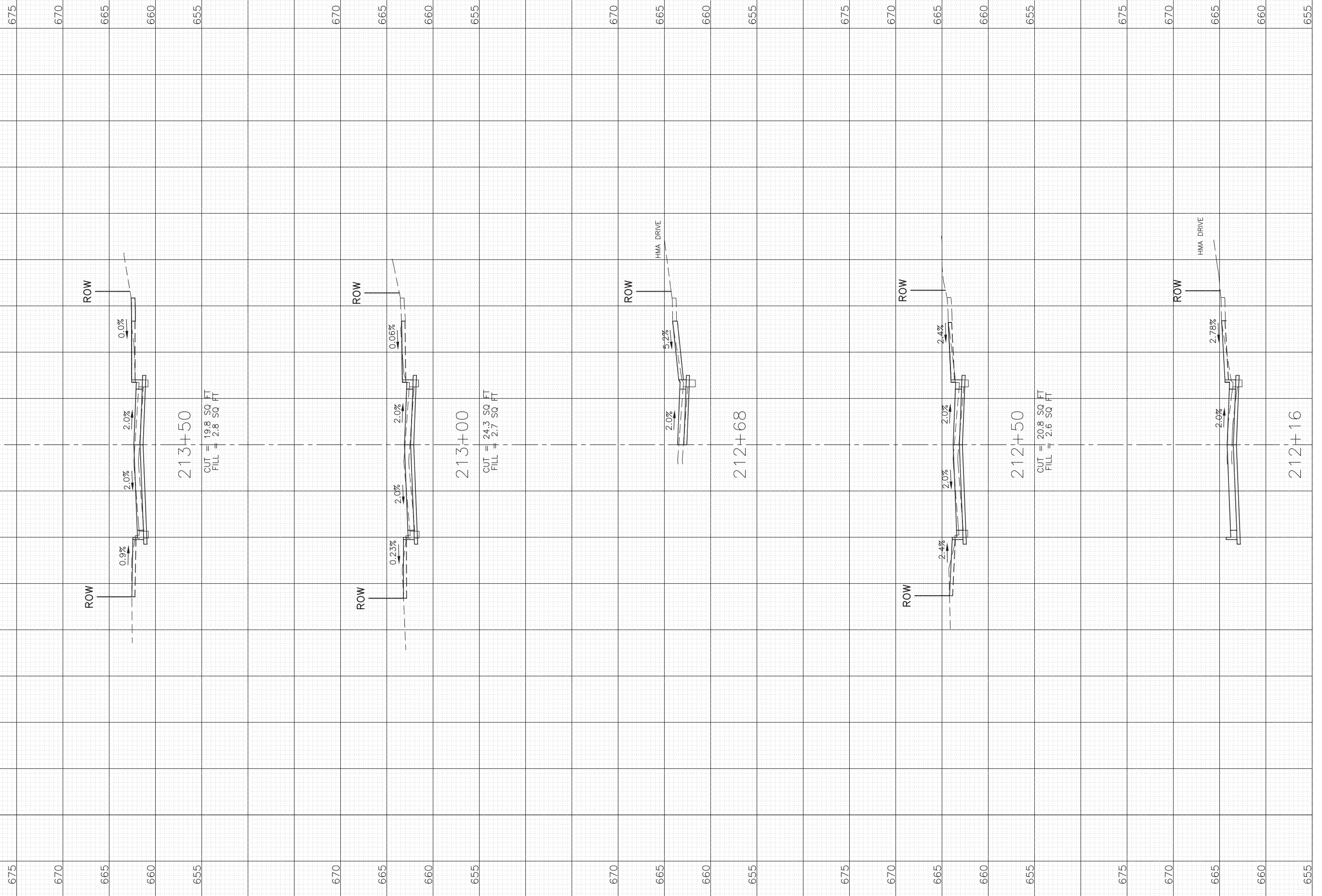
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SCALE: 1"=5' VERT. SHEET NO. 9 OF 10 SHEETS STA. 211+05 TO STA. 212+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	16-00094-00-PV	COOK	88	87
			CONTRACT NO. 61H47	
ILLINOIS FED. AID PROJECT				



FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
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ORIGINAL SURVEY	SURVEYED	BY	DATE
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PLOT DATE =	CHECKED - JCZ	REVISED -
	DATE - 01/14/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PRELIMINARY CROSS SECTIONS  
CENTRAL AVENUE**

1"=10' HOR.  
SCALE: 1"=5' VERT.

SHEET NO. 10 OF 10 SHEETS      STA. 212+16 TO STA. 213+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	16-00094-00-PV	COOK	88	88
			CONTRACT NO. 61H47	
ILLINOIS FED. AID PROJECT				