

F.A.U. RATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
140B	15-00129-00-BR	COOK	114	1
F.I.D. ROAD U.S.T. NO.	ILL. INDS	CONTRACT NO.	61G22	

INDEX OF SHEETS
SEE SHEET 2 FOR INDEX OF SHEETS

HIGHWAY STANDARDS
SEE SHEET 2 FOR LIST OF HIGHWAY STANDARDS

DISTRICT 1 DETAILS
SEE SHEET 2 FOR LIST OF DISTRICT 1 DETAILS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

**FAU ROUTE 1408 (BROOKFIELD AVENUE)
OVER SALT CREEK
BRIDGE REPLACEMENT
SECTION 15-00129-00-BR
PROJECT 96L7(433)
VILLAGE OF BROOKFIELD
COOK COUNTY
C-91-402-15**



CiorbaGroup
CONSULTING ENGINEERS

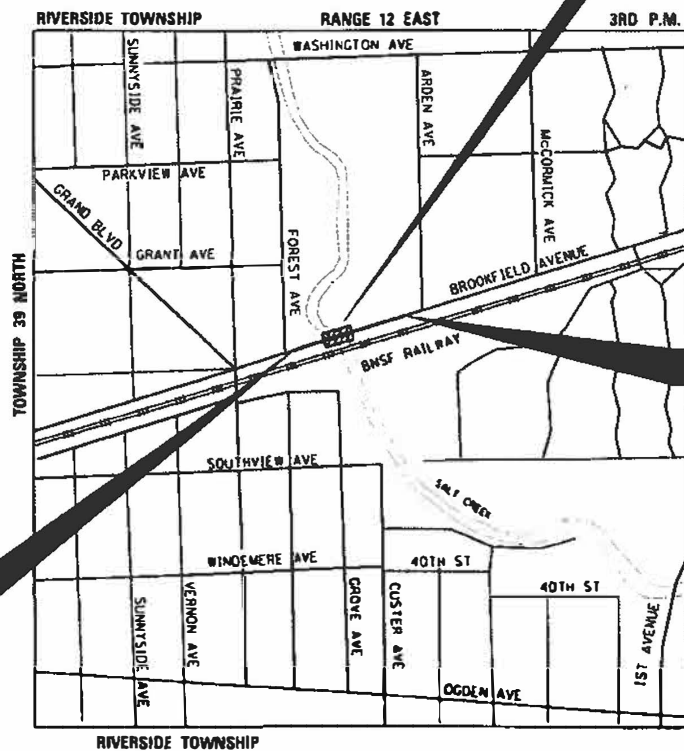
DESIGN FIRM REGISTRATION NUMBER: 184-001016
8725 W Higgins Road, Suite 600 | Chicago, IL 60631
P 773.775.4009 | www.ciorba.com

BROOKFIELD AVENUE
FUNCTIONAL CLASSIFICATION - MAJOR COLLECTOR
ADT (2018) = 2,800
ADT (2040) = 2,900
DESIGN SPEED = 30 MPH
POSTED SPEED = 25 MPH



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

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



**PROJECT BEGINS
STA 504 + 00.00**

**EXISTING S.N. 016-6665
PROPOSED S.N. 016-6666**
SINGLE-SPAN STRUCTURE WITH PPC BEAMS
AND 8" REINFORCED CONCRETE DFCK

**PROJECT ENDS
STA 510 + 00.75**

**LOCATION MAP
(NOT TO SCALE)**
PROJECT LENGTH

NET AND GROSS LENGTH = 601 FT. = 0.11 MILES

STATE OF ILLINOIS
LICENSED STRUCTURAL ENGINEER
BRETT W SAUTER
081-006844
DATE 10/5/2020
SEAL EXPIRES: 11/30/2020

STATE OF ILLINOIS
LICENSED PROFESSIONAL ENGINEER
DIANA L DECKER
062-056649
DATE 10/5/2020
SEAL EXPIRES: 11/30/2021

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

APPROVED *Sept 14 2020*
[Signature]
VILLAGE OF BROOKFIELD, DIRECTOR OF PUBLIC WORKS

PASSED *11-12 2020*
[Signature]
DISTRICT 1 ENGINEER OF LOCAL ROADS AND STREETS

RELEASED FOR BID
BASED ON LIMITED REVIEW
NOVEMBER 12 2020
[Signature]
REGIONAL ENGINEER

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

FEDERAL AID PROGRAM ENGINEER: CARMEN E RAMOS, P.E. SCHAUMBURG, IL

CONSULTANT ENGINEER: BRETT SAUTER, P.E., S.E. CIORBA GROUP, INC
CONTRACT NO. 61G22

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS AND STANDARDS
3	GENERAL NOTES AND COMMITMENTS
4	MWRD GENERAL NOTES
5 - 15	SUMMARY OF QUANTITIES
16 - 17	TYPICAL SECTIONS
18 - 20	SCHEDULE OF QUANTITIES
21	ALIGNMENT, TIES AND BENCHMARKS
22	EXISTING CONDITIONS & REMOVAL PLAN
23 - 25	PLAN AND PROFILE
26	DETOUR PLAN
27 - 32	EROSION CONTROL AND LANDSCAPING PLAN
33	EROSION CONTROL GENERAL NOTES
34 - 36	EROSION CONTROL DETAILS
37 - 38	REMOVAL AND PROPOSED DRAINAGE PLAN
39	COMPENSATORY STORAGE PLAN
40 - 41	COMPENSATORY STORAGE CROSS SECTIONS
42 - 43	REMOVAL AND PROPOSED WATER MAIN PLAN
44	PROPOSED WATER MAIN PROFILE
45 - 52	WATER AND SEWER DETAILS
53 - 54	MWRDGC REFERENCE PLANS
55	PLAT OF HIGHWAYS
56 - 57	PAVEMENT MARKING AND SIGNING PLAN
58 - 60	PROPOSED LIGHTING PLAN
61 - 65	LIGHTING DETAILS
66	GRADING PLAN
67 - 101	STRUCTURAL PLAN
102	SEGMENTAL CONCRETE BLOCK WALL DETAIL
103 - 109	DISTRICT 1 DETAILS
110 - 114	CROSS SECTIONS

HIGHWAY STANDARDS

STANDARD NO.	LIST OF DESCRIPTION
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420401-13	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
424026-03	ENTRANCE/ALLEY PEDESTRIAN CROSSINGS
442201-03	CLASS C AND D PATCHES
515001-04	NAME PLATE FOR BRIDGES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
542206-04	REINFORCED CONCRETE END SECTION FOR PIPE CULVERTS 42" (1050 mm) THRU 60" (1500 mm) DIA. SKEWED WITH ROADWAY
602001-02	CATCH BASIN TYPE A
602011-02	CATCH BASIN TYPE C
602401-07	PRECAST MANHOLE TYPE A 4' (1.22 m) DIAMETER
602411-09	PRECAST MANHOLE TYPE A 7' (2.13 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
604036-03	GRATE TYPE 8
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
664001-02	CHAIN LINK FENCE
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
780001-05	TYPICAL PAVEMENT MARKINGS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTORS MOUNTING DETAILS
836001-04	LIGHT POLE FOUNDATION

IDOT DISTRICT 1 DETAILS

STANDARD NO.	LIST OF DESCRIPTION
BD-01	DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CRB & EDGE OF SHOULDER $\geq 15'$ (4.5 m)
BD-07	STORM SEWER CONNECTION TO EXISTING SEWER
BD-08	FRAMES AND LIDS ADJUSTMENT WITH MILLING
BD-22	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC-21	DETOUR SIGNING FOR CLOSING STATE HIGHWAYS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BROOKFIELD AVE OVER SALT CREEK
INDEX OF SHEETS AND STANDARDS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	2
CONTRACT NO.			61G22	
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

- EXISTING STREET SIGNS AND TRAFFIC SIGNS THAT ARE WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED AND RESET BY THE CONTRACTOR, UNLESS WHERE OTHERWISE SHOWN ON PLANS, IN ACCORDANCE WITH ARTICLE 107.25.
- THE FINAL TOP SIX INCHES OF SOIL IN DISTURBED RIGHT-OF-WAY AREA BY THE CONTRACTOR MUST BE A COHESIVE SOIL CAPABLE OF SUPPORTING VEGETATION.
- A PROOF ROLL OF THE SUBGRADE IS REQUIRED PRIOR TO PLACING THE AGGREGATE SUB-BASE AND MUST BE OBSERVED BY THE ENGINEER. NOTIFY THE ENGINEER AT LEAST TWENTY FOUR (24) HOURS IN ADVANCE TO DOING THE PROOF ROLL.
- THE VILLAGE OF BROOKFIELD MUST BE NOTIFIED A MINIMUM OF TWO (2) WORKING DAYS IN ADVANCE OF ANY NON-EMERGENCY CONSTRUCTION WITHIN THE RIGHT-OF-WAY.
- A REGIONAL 404 PERMIT WILL BE OBTAINED FOR THIS PROJECT AND THE CONDITIONS OF THAT PERMIT MUST BE ADHERED TO. THE CONTRACTOR MUST SUBMIT AN IN-STREAM WORK PLAN TO THE USACE AND THE WILL-SOUTH COOK SOIL AND WATER CONSERVATION DISTRICT FOR APPROVAL PRIOR TO ANY WORK IN THE CREEK.
- THE LOCATION AND ELEVATIONS OF THE UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE NOT TO BE TAKEN AS EXACT. THE CONTRACTOR SHALL USE SPECIAL CARE WHEN CONDUCTING CONSTRUCTION OPERATIONS NEAR THEM TO PREVENT DAMAGE.
- THE CONTRACTOR SHALL NOTIFY THE RESPECTIVE UTILITIES TO MAKE THE NECESSARY ADJUSTMENTS PRIOR TO THIS CONSTRUCTION.
- THE UTILITIES LOCATED WITHIN THE PROJECT LIMITS OR IMMEDIATELY ADJACENT TO THE PROJECT CONSTRUCTION LIMITS INCLUDE:

AT&T
ATTN: CHRIS CASS
PH: (630) 573-5715
EMAIL: CC4631@ATT.COM

COMCAST
ATTN: EMILY CRAVEN
PH: (773) 509-3678
EMAIL: EMILY.CRAVEN@EXELONCORP.COM

BROOKFIELD PUBLIC WORKS
ATTN: ANDY ZANTOS
PH: (708) 485-4244
EMAIL: AZONTOS@BROOKFIELD.GOV

CROWN CASTLE
ATTN: DAVID ANTOL
PH: (801) 364-1063
EMAIL: DAVID.ANTOL@CROWNCastle.COM

CENTURY LINK
ATTN: BRIAN SHEPHERD
PH: (312) 253-1800X1878
EMAIL: BSHEPHERD@HBKENGINEERING.COM

MCI
ATTN: JOE CHANEY
PH: (312) 617-2131
EMAIL: INVESTIGATIONS@VERIZON.COM

COMED
ATTN: MICHELLE HO
PH: (331) 481-9108
EMAIL: MICHELLE.HO@COMED.COM

MWRD
ATTN: CHESTER KOS
PH: (312) 751-3236
EMAIL: KOSC@MWRD.ORG

WOW
ATTN: PAUL FLINKOW
PH: (630) 536-3139
EMAIL: PAUL.FLINKOW@WOWINC.COM

NICOR
ATTN: BRUCE KOPPANG
PH: (630) 388-2362
EMAIL: BKOPPANG@SOUTHERNCO.COM

- ALL CONSTRUCTION MATERIALS WITHIN THE VILLAGE RIGHT-OF-WAY MUST BE IDOT CERTIFIED. DOCUMENTATION OF MATERIAL CERTIFICATION SHALL BE SUBMITTED PRIOR TO ENGINEER APPROVAL. ALL CONSTRUCTION MATERIAL NEEDING INSPECTION SHALL BE DONE ACCORDING TO THE LATEST IDOT PROJECT AND PROCEDURES GUIDE.
- THE CONTRACTOR SHALL PROVIDE THE ENGINEER A LIST OF MATERIALS USED AND IDENTIFY THEIR ASSOCIATED IDOT CERTIFICATION. SHALL PROVIDE THE ENGINEER WITH A COPY OF ALL MATERIAL TESTING COMPANY RESULTS. SHALL SIGN AND PROVIDE THE ENGINEER ON A WEEKLY BASIS WEEKLY FIELD REPORTS UTILIZING THE APPROPRIATE IDOT FORM. SHALL SUBMIT TO THE ENGINEER A CERTIFICATION LETTER THAT CERTIFIES COMPLIANCE WITH THE PLANS AND SPECIFICATIONS.
- PACE MUST BE NOTIFIED A MINIMUM OF TWO (2) WEEKS IN ADVANCE OF ANY ROAD CLOSURES. RICK WILLIAMS (847) 228-3584
- IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO COORDINATE WITH THE BNSF RAILROAD WHENEVER CONSTRUCTION ACTIVITY IS WITHIN 25 FEET OF THE RAILROAD ROW. THE CONTRACTOR SHALL RETAIN FLAGMEN EMPLOYED AND DESIGNATED BY THE BNSF RAILROAD TO MONITOR ON-COMING TRAIN TRAFFIC, AND ADVISE CONTRACTOR PERSONNEL WHEN ACTIVITY ON OR NEAR THE RAILROAD RIGHT-OF-WAY MAY PROCEED. THIS ITEM WILL BE PAID FOR ACCORDING TO ARTICLE 107.12 AND WILL BE REIMBURSED ACCORDING TO ARTICLE 109.05.
- AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAS 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 ASI 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
- MWRDGC MANHOLES SHALL BE LOCATED, PROTECTED, AND/OR ADJUSTED TO GRADE IF NECESSARY AS SPECIFIED IN THE PLANS. PRIOR AUTHORIZATION IS REQUIRED TO MAKE ANY STRUCTURAL MODIFICATIONS, INCLUDING MANHOLE FRAME AND LID ADJUSTMENTS. AUTHORIZATION MAY BE OBTAINED BY CONTACTING MR. CEDRIC ROBERTSON, MANAGING ENGINEER, AT (708) 588-3896.
- THE CONTRACTOR SHALL TAKE EXTRA CAUTION TO PROTECT THE SAFETY AND INTEGRITY OF MWRDGC FACILITIES. NO ACCESS HATCHES AND MANHOLE COVERS ON DISTRICT STRUCTURES AND MANHOLES WITHIN THE PROJECT AREA SHALL BE BURIED OR COVERED. NO DEBRIS SHALL ENTER DISTRICT STRUCTURES, SEWERS, OR FACILITIES. DISTRICT PERSONNEL SHALL HAVE A 24 HOUR-A-DAY UNRESTRICTED ACCESS TO ALL DISTRICT FACILITIES.
- DUE TO THE PRESENCE OF TARP AND INTERCEPTOR FACILITIES IN THE WORK AREAS, PAUL SOBANSKI SHOULD BE NOTIFIED PRIOR TO START OF WORK TO ASSURE INFRASTRUCTURE IS NOT DAMAGED DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL MWRDGC FACILITIES FROM ALL CONSTRUCTION OPERATIONS AND EQUIPMENT. IN ADDITION THE CONTRACTOR MAY BE REQUIRED TO VIDEO MWRDGC SEWERS TO RECORD PRE- AND POST-PROJECT CONDITIONS. FOR ANY QUESTIONS REGARDING VIDEO REQUIREMENTS AND ACCESS TO FACILITIES, PLEASE CONTACT MR. PAUL SOBANSKI, SENIOR ENGINEER, AT (708) 588-4080.

COMMITMENTS

- VEHICLE ACCESS SHALL BE MAINTAINED TO THE BROOKFIELD VILLAGE HALL PARKING LOT AT ALL TIMES DURING CONSTRUCTION .
- PEDESTRIAN ACCESS SHALL BE MAINTAINED AT ALL TIMES TO THE PEDESTRIAN BRIDGE TO THE SOUTH OF THE BROOKFIELD AVENUE BRIDGE DURING CONSTRUCTION.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BROOKFIELD AVE OVER SALT CREEK
GENERAL NOTES AND COMMITMENTS**

SCALE: N.T.S. SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	3
CONTRACT NO.				61G22
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 55) FOR ALL IMPROVEMENTS EXCEPT SANITARY SEWER AND WATER MAIN CONSTRUCTION;
 - * STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION (SSWS) FOR SANITARY SEWER AND WATER MAIN CONSTRUCTION;
 - * VILLAGE OF BROOKFIELD MUNICIPAL CODE;
 - * THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO (MWRD) WATERSHED MANAGEMENT ORDINANCE AND TECHNICAL GUIDANCE MANUAL;
 - * IN CASE OF CONFLICT BETWEEN THE APPLICABLE ORDINANCES NOTED, THE MORE STRINGENT SHALL TAKE PRECEDENCE AND SHALL CONTROL ALL CONSTRUCTION.

B. NOTIFICATIONS

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

C. GENERAL NOTES

- ALL ELEVATIONS SHOWN ON PLANS REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- 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 CIRCULAR SAW-CUT OF SEWER MAIN BY PROPER TOOLS ("SHEWER-TAP" MACHINE OR SIMILAR) AND PROPER INSTALLATION OF HUBWYE SADDLE OR HUB-TEE SADDLE.
 - REMOVE AN ENTIRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH SECTION.
 - WITH PIPE CUTTER, NEATLY AND ACCURATELY CUT OUT DESIRED LENGTH OF PIPE FOR INSERTION OF PROPER FITTING, USING "BAND SEAL" OR SIMILAR 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:
 - UPON COMPLETION OF INITIAL EROSION AND SEDIMENT CONTROL MEASURES, PRIOR TO ANY SOIL DISTURBANCE.
 - ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT WITH GREATER THAN 0.5 INCH OF RAINFALL OR LIQUID EQUIVALENT PRECIPITATION.
- SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. IF STRIPPING, CLEARING, GRADING, OR LANDSCAPING ARE TO BE DONE IN PHASES, THE CO-PERMITTEE SHALL PLAN FOR APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL MEASURES.
- A STABILIZED MAT OF CRUSHED STONE MEETING THE STANDARDS OF THE ILLINOIS URBAN MANUAL SHALL BE INSTALLED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE. SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
- CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL AND SHALL BE INSTALLED PRIOR TO ANY ON SITE CONSTRUCTION ACTIVITIES INVOLVING CONCRETE.
- MORTAR WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ADDITION TO CONCRETE WASHOUT FACILITIES FOR ANY BRICK AND MORTAR BUILDING ENVELOPE CONSTRUCTION ACTIVITIES.
- TEMPORARY DIVERSIONS SHALL BE CONSTRUCTED AS NECESSARY TO DIRECT ALL RUNOFF FROM HYDROLOGICALLY DISTURBED AREAS TO AN APPROPRIATE SEDIMENT TRAP OR BASIN. VOLUME CONTROL FACILITIES SHALL NOT BE USED AS TEMPORARY SEDIMENT BASINS.
- DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) DAYS.
- ALL FLOOD PROTECTION AREAS AND VOLUME CONTROL FACILITIES SHALL, AT A MINIMUM, BE PROTECTED WITH A DOUBLE-ROW OF SILT FENCE (OR EQUIVALENT).
- VOLUME CONTROL FACILITIES SHALL NOT BE CONSTRUCTED UNTIL ALL OF THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.
- SOIL STOCKPILES SHALL, AT A MINIMUM, BE PROTECTED WITH PERIMETER SEDIMENT CONTROLS. SOIL STOCKPILES SHALL NOT BE PLACED IN FLOOD PROTECTION AREAS OR THEIR BUFFERS.
- EARTHEN EMBANKMENT SIDE SLOPES SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL BLANKET.
- STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY APPROPRIATE SEDIMENT CONTROL MEASURES.
- THE CONTRACTOR SHALL EITHER REMOVE OR REPLACE ANY EXISTING DRAIN TILES AND INCORPORATE THEM INTO THE DRAINAGE PLAN FOR THE DEVELOPMENT. DRAIN TILES CANNOT BE TRIBUTARY TO A SANITARY OR COMBINED SEWER. DRAIN TILES ALLOWED IN COMBINED SEWER AREA FOR GREEN INFRASTRUCTURE PRACTICES.
- IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. DEWATERING SYSTEMS SHOULD BE INSPECTED DAILY DURING OPERATIONAL PERIODS. THE SITE INSPECTOR MUST BE PRESENT AT THE COMMENCEMENT OF DEWATERING ACTIVITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRENCH DEWATERING AND EXCAVATION FOR THE INSTALLATION OF SANITARY SEWERS, STORM SEWERS, WATERMANS AS WELL AS THEIR SERVICES AND OTHER APPURTENANCES. ANY TRENCH DEWATERING, WHICH CONTAINS SEDIMENT SHALL PASS THROUGH A SEDIMENT SETTLING POND OR EQUALLY EFFECTIVE SEDIMENT CONTROL DEVICE. ALTERNATIVES MAY INCLUDE DEWATERING INTO A SUMP PIT, FILTER BAG OR EXISTING VEGETATED UPSLOPE AREA. SEDIMENT LADEN WATERS SHALL NOT BE DISCHARGE TO WATERWAYS, FLOOD PROTECTION AREAS OR THE COMBINED SEWER SYSTEM.
- ALL PERMANENT EROSION CONTROL PRACTICES SHALL BE INITIATED WITHIN SEVEN (7) DAYS FOLLOWING THE COMPLETION OF SOIL DISTURBING ACTIVITIES.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AND REPAIRED AS NEEDED ON A YEAR-ROUND BASIS DURING CONSTRUCTION AND ANY PERIODS OF CONSTRUCTION SHUTDOWN UNTIL PERMANENT STABILIZATION IS ACHIEVED.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER PERMANENT SITE STABILIZATION.
- THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER, SITE INSPECTOR, OR MWRD.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BROOKFIELD AVE OVER SALT CREEK
MWRD GENERAL NOTES**

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	4
CONTRACT NO.			61G22	
ILLINOIS		FED. AID PROJECT		

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PLOT DATE = 11/3/2020	DATE - 10/5/2020	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BROOKFIELD AVE OVER SALT CREEK SUMMARY OF QUANTITIES	
SCALE: N.T.S.	SHEET 1 OF 11 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	5
CONTRACT NO. 61G22			ILLINOIS FED. AID PROJECT	

CONSTRUCTION TYPE CODE

80% FED 20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	RDWY	LIGHTING	WATERMAIN	BRIDGE REPLACE
				0004	0021	0043	0010
							S.N. 016-6666
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	72	72			
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	42	42			
20101000	TEMPORARY FENCE	FOOT	165	165			
20101200	TREE ROOT PRUNING	EACH	7	7			
20200100	EARTH EXCAVATION	CU YD	622	622			
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	54	54			
20800150	TRENCH BACKFILL	CU YD	756	624		132	
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SO YD	246	246			
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	952	952			
*	25200110 SODDING, SALT TOLERANT	SO YD	848	848			
*	25200200 SUPPLEMENTAL WATERING	UNIT	5.1	5.1			
	28000250 TEMPORARY EROSION CONTROL SEEDING	POUND	21	21			
	28000400 PERIMETER EROSION BARRIER	FOOT	794	794			
	28000510 INLET FILTERS	EACH	16	16			
	28100109 STONE RIPRAP, CLASS A5	SO YD	446				446

* DENOTES SPECIALTY ITEM
△ INDICATES SPECIAL PROVISION

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CONSTRUCTION TYPE CODE

80% FED 20% STATE			
RDWY	LIGHTING	WATERMAIN	BRIDGE REPLACE
0004	0021	0043	0010
			S.N. 016-6666

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	RDWY	LIGHTING	WATERMAIN	BRIDGE REPLACE
	28200200	FILTER FABRIC	SO YD	446				446
Δ	30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	82	82			
Δ	30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SO YD	2,631	2,631			
	31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SO YD	495	495			
	31101400	SUBBASE GRANULAR MATERIAL, TYPE B 6"	SO YD	61	61			
	40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1,102	1,102			
	40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	759	759			
	40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	253	253			
	42000080	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SO YD	184	184			
	42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SO YD	61	61			
	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	4,454	4,454			
	42400800	DETECTABLE WARNINGS	SO FT	30	30			
	44000100	PAVEMENT REMOVAL	SO YD	2,460	2,460			
	44000200	DRIVEWAY PAVEMENT REMOVAL	SO YD	78	78			
	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1,095	1,095			

* DENOTES SPECIALTY ITEM
 Δ INDICATES SPECIAL PROVISION



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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BROOKFIELD AVE OVER SALT CREEK
 SUMMARY OF QUANTITIES
 SCALE: N.T.S. SHEET 2 OF 11 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	6
CONTRACT NO. 61G22				
ILLINOIS FED. AID PROJECT				

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BROOKFIELD AVE OVER SALT CREEK SUMMARY OF QUANTITIES			
SCALE: N.T.S.	SHEET 3 OF 11 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	7
CONTRACT NO.			61G22	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE			
				80% FED 20% STATE			
				RDWY	LIGHTING	WATERMAIN	BRIDGE REPLACE
				0004	0021	0043	0010
							S.N. 016-6666
44000600	SIDEWALK REMOVAL	SQ FT	4,807	4,807			
44201737	CLASS D PATCHES, TYPE I, 8 INCH	SQ YD	7	7			
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1				1
50200100	STRUCTURE EXCAVATION	CU YD	410.0				410.0
50200300	COFFERDAM EXCAVATION	CU YD	1,096.9				1,096.9
50201121	COFFERDAM (TYPE 2) (LOCATION - 1)	EACH	1				1
50300225	CONCRETE STRUCTURES	CU YD	421.5				421.5
50300255	CONCRETE SUPERSTRUCTURE	CU YD	214.5				214.5
50300260	BRIDGE DECK GROOVING	SQ YD	539				539
50300285	FORM LINER TEXTURED SURFACE	SQ FT	105				105
50300300	PROTECTIVE COAT	SQ YD	933				933
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	123.9				123.9
50401310	FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE BEAMS, IL36	FOOT	835				835
50800105	REINFORCEMENT BARS	Pound	14,440				14,440
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	67,010				67,010

* DENOTES SPECIALTY ITEM
△ INDICATES SPECIAL PROVISION

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						80% FED 20% STATE			
						RDWY	LIGHTING	WATERMAIN	BRIDGE REPLACE
						0004	0021	0043	0010
									S.N. 016-6666
	*	50900805	PEDESTRIAN RAILING	FOOT	158				158
	*	50901750	PARAPET RAILING	FOOT	138				138
		51500100	NAME PLATES	EACH	1				1
		51603000	DRILLED SHAFT IN SOIL	CU YD	103.0				103.0
		52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	8				8
		52100520	ANCHOR BOLTS, 1"	EACH	48				48
		52200020	TEMPORARY SOIL RETENTION SYSTEM	SO FT	551	551			
		52200800	SEGMENTAL CONCRETE BLOCK WALL	SO FT	24	24			
		550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	40	40			
		550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	41	41			
		550A0400	STORM SEWERS, CLASS A, TYPE 2 21"	FOOT	107	107			
		55100500	STORM SEWER REMOVAL 12"	FOOT	71	71			
		55100700	STORM SEWER REMOVAL 15"	FOOT	36	36			
	Δ *	56103400	DUCTILE IRON WATER MAIN 16"	FOOT	188			188	
	Δ *	56106700	ADJUSTING WATER MAIN 16"	FOOT	34			34	

* DENOTES SPECIALTY ITEM
 Δ INDICATES SPECIAL PROVISION



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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BROOKFIELD AVE OVER SALT CREEK
 SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET 4 OF 11 SHEETS STA. TO STA.

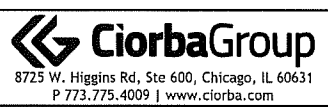
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	8
CONTRACT NO.				61G22
ILLINOIS FED. AID PROJECT				

CONSTRUCTION TYPE CODE			
80% FED 20% STATE			
RDWY	LIGHTING	WATERMAIN	BRIDGE REPLACE
0004	0021	0043	0010
			S.N. 016-6666

		CODE NO.	ITEM	UNIT	TOTAL QUANTITY				
Δ	*	56400820	FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX	EACH	1			1	
		58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	428				428
		59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	261				261
		60108204	PIPE UNDERDRAINS, TYPE 2, 4"	FOOT	225	225			
		60200305	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 3 FRAME AND GRATE	EACH	1	1			
		60200805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	1	1			
		60203805	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1	1			
		60204005	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 3 FRAME AND GRATE	EACH	1	1			
		60207105	CATCH BASINS, TYPE C, TYPE 3 FRAME AND GRATE	EACH	1	1			
		60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1			
		60235700	INLETS, TYPE A, TYPE 3 FRAME AND GRATE	EACH	1	1			
		60250200	CATCH BASINS TO BE ADJUSTED	EACH	3	3			
		60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	6	6			
Δ	*	60300405	VALVE BOX FRAMES TO BE ADJUSTED	EACH	2			2	
		60406000	FRAMES AND LIDS, TYPE 1, OPEN LID	EACH	1	1			

* DENOTES SPECIALTY ITEM
Δ INDICATES SPECIAL PROVISION

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BROOKFIELD AVE OVER SALT CREEK
SUMMARY OF QUANTITIES**

SCALE: N.T.S. SHEET 5 OF 11 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	9
CONTRACT NO. 61G22			ILLINOIS FED. AID PROJECT	

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						80% FED 20% STATE			
						RDWY	LIGHTING	WATERMAIN	BRIDGE REPLACE
						0004	0021	0043	0010
						S.N. 016-6666			
		60500040	REMOVING MANHOLES	EACH	1	1			
		60500050	REMOVING CATCH BASINS	EACH	2	2			
		60500060	REMOVING INLETS	EACH	2	2			
		60600605	CONCRETE CURB, TYPE B	FOOT	46	46			
		60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	935	935			
	*	66400105	CHAIN LINK FENCE, 4'	FOOT	79	79			
△	*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	174	174			
△	*	66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1			
△	*	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1	1			
△	*	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	LSUM	1	1			
△	*	66901006	REGULATED SUBSTANCES MONITORING	CAL DA	5	5			
△		67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12			
		67100100	MOBILIZATION	L SUM	1	1			
△		70107025	CHANGEABLE MESSAGE SIGN	CAL DA	480	480			
	*	72000100	SIGN PANEL - TYPE 1	SO FT	6	6			

* DENOTES SPECIALTY ITEM
 △ INDICATES SPECIAL PROVISION



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BROOKFIELD AVE OVER SALT CREEK SUMMARY OF QUANTITIES			
SCALE: N.T.S.	SHEET 6 OF 11 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	10
CONTRACT NO. 61G22				
ILLINOIS FED. AID PROJECT				

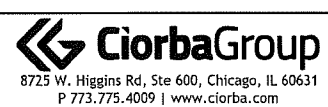
CONSTRUCTION TYPE CODE

80% FED 20% STATE

		CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE			
						ROWY	LIGHTING	WATERMAIN	BRIDGE REPLACE
						0004	0021	0043	0010
									S.N. 016-6666
	*	72000200	SIGN PANEL - TYPE 2	SQ FT	16	16			
	*	72400200	REMOVE SIGN PANEL ASSEMBLY - TYPE B	EACH	3	3			
	*	72400600	RELOCATE SIGN PANEL ASSEMBLY - TYPE B	EACH	1	1			
	*	72900100	METAL POST - TYPE A	FOOT	12	12			
	*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	2,910	2,910			
	*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	735	735			
	△ *	81028160	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3/4" DIA.	FOOT	134		134		
	△ *	81028720	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1" DIA.	FOOT	169		169		
	*	81200210	CONDUIT EMBEDDED IN STRUCTURE, 1" DIA., PVC	FOOT	175		175		
	*	81300550	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X 6"	EACH	1		1		
	*	81300980	JUNCTION BOX, STAINLESS STEEL, EMBEDDED IN STRUCTURE, 8" X 8" X 6"	EACH	3		3		
	△ *	81702100	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 12	FOOT	474		474		
	△ *	81702120	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	FOOT	1,278		1,278		
	*	83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	18		18		
	*	83800105	BREAKAWAY DEVICE, TRANSFORMER BASE, 11.5 INCH BOLT CIRCLE	EACH	1		1		

* DENOTES SPECIALTY ITEM
 △ INDICATES SPECIAL PROVISION

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BROOKFIELD AVE OVER SALT CREEK
 SUMMARY OF QUANTITIES**

SCALE: N.T.S. SHEET 7 OF 11 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	11
CONTRACT NO.			61G22	
ILLINOIS FED. AID PROJECT				

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		CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE			
						80% FED 20% STATE			
						RDWY	LIGHTING	WATERMAIN	BRIDGE REPLACE
						0004	0021	0043	0010
									S.N. 016-6666
*		84200804	REMOVAL OF POLE FOUNDATION	EACH	3		3		
*		89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	870		870		
*		A2002879	TREE, CELTIS OCCIDENTALIS CHICAGOLAND, (CHICAGOLAND COMMON HACKBERRY), 2" CALIPER, BALLED AND BURLAPPED	EACH	5	5			
*		B2006016	TREE, SYRINGA PEKINENSIS (PEKING LILAC), 2" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	3	3			
Δ	*	X0320031	SIGN LIGHTING UNIT COMPLETE	EACH	5		5		
Δ	*	X0320051	CROSSHOLE SONIC LOGGING ACCESS DUCTS	FOOT	324				324
Δ	*	X0320052	CROSSHOLE SONIC LOGGING TESTING	EACH	4				4
Δ	*	X0322791	FILL EXISTING SANITARY SEWERS	CU YD	6	6			
Δ		X0322916	PROPOSED STORM SEWER CONNECTION TO EXISTING STORM SEWER	EACH	2	2			
Δ		X0322917	PROPOSED STORM SEWER CONNECTION TO EXISTING MANHOLE	EACH	3	3			
Δ	*	X0324050	BOLLARD, LED	EACH	2		2		
Δ		X0324345	COMBINED SEWER REMOVAL 24"	FOOT	81	81			
Δ		X0325225	BRICK PAVEMENT REMOVAL AND REPLACEMENT	SQ FT	783	783			
		X0326275	RAILROAD RIGHT-OF-WAY PERMIT	EACH	1	1			
Δ	*	X0326492	REMOVAL OF EXISTING SIGN LIGHTING UNIT AND SALVAGE	EACH	5		5		
Δ	*	X0326713	SANITARY SEWER CONNECTION	EACH	2	2			

* DENOTES SPECIALTY ITEM
 Δ INDICATES SPECIAL PROVISION



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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BROOKFIELD AVE OVER SALT CREEK SUMMARY OF QUANTITIES			
SCALE: N.T.S.	SHEET 8	OF 11 SHEETS	STA. TO STA.

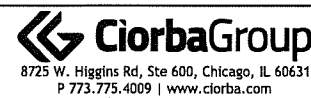
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CONTRACT NO. 61G22			ILLINOIS FED. AID PROJECT	

CONSTRUCTION TYPE CODE			
80% FED 20% STATE			
RDWY	LIGHTING	WATERMAIN	BRIDGE REPLACE
004	0021	0043	0010
			S.N. 016-6666

		CODE NO.	ITEM	UNIT	TOTAL QUANTITY				
Δ		X0326806	WASHOUT BASIN	L SUM	1	1			
Δ	*	X0327078	REMOVE FIRE HYDRANT AND VALVE ASSEMBLY	EACH	1			1	
Δ		X0327371	PLUG EXISTING PIPE	CU YD	1	1			
		78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SO FT	19	19			
Δ		X0900075	COFFERDAM (TYPE 1) (IN-STREAM/WETLAND WORK)	EACH	2				2
Δ	*	X1200015	VALVE VAULTS TO BE ABANDONED	EACH	2			2	
Δ	*	X1200195	ABANDON EXISTING WATER MAIN, FILL WITH CLSM, 16"	FOOT	210			210	
Δ	*	X1400238	LUMINAIRE, LED, SPECIAL	EACH	2		2		
Δ	*	X2502014	SEEDING, CLASS 4A (MODIFIED)	ACRE	0.25	0.25			
Δ	*	X2510635	HEAVY DUTY EROSION CONTROL BLANKET, SPECIAL	SO YD	190	190			
Δ	*	X2510900	TURF REINFORCEMENT MAT (SPECIAL)	SO YD	39	39			
Δ	*	X2511630	EROSION CONTROL BLANKET (SPECIAL)	SO YD	892	892			
Δ		X2800500	INLET PROTECTION, SPECIAL	EACH	2	2			
Δ		X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	1	1			
Δ		X5509900	ABANDON AND FILL EXISTING STORM SEWER	FOOT	71	71			

* DENOTES SPECIALTY ITEM
Δ INDICATES SPECIAL PROVISION

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PLOT DATE = 11/2/2020	DATE - 10/5/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BROOKFIELD AVE OVER SALT CREEK
SUMMARY OF QUANTITIES**

SCALE: N.T.S. SHEET 9 OF 11 SHEETS STA. TO STA.

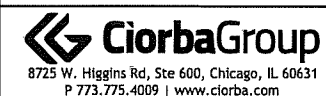
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	13
CONTRACT NO. 61G22			ILLINOIS FED. AID PROJECT	

CONSTRUCTION TYPE CODE			
80% FED 20% STATE			
RDWY	LIGHTING	WATERMAIN	BRIDGE REPLACE
004	0021	0043	0010
			S.N. 016-6666

		CODE NO.	ITEM	UNIT	TOTAL QUANTITY				
Δ	*	X5610016	WATER MAIN 16" (DIRECTIONAL BORE)	FOOT	325			325	
Δ	*	X6026055	SANITARY MANHOLE, SPECIAL	EACH	1	1			
Δ	*	X6022840	MANHOLES, SANITARY, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1			
Δ	*	X6025600	MANHOLES TO BE ADJUSTED (SPECIAL)	EACH	3	3			
Δ	*	X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	13	13			
Δ		X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1			
Δ	*	X8250500	LIGHTING UNIT COMPLETE, SPECIAL	EACH	1		1		
Δ	*	X8440110	RELOCATE EXISTING LIGHT POLE WITH LUMINAIRE	EACH	3		3		
Δ	*	XX005696	SEWER CONNECTIONS TO STRUCTURES	EACH	2	2			
Δ	*	XX006052	SANITARY SEWER REMOVAL (SPECIAL)	FOOT	63	63			
Δ		XX008490	FORM LINER COLORATION (SPECIAL)	SQ FT	60				60
Δ		Z0013797	STABILIZED CONSTRUCTION ENTRANCE	SQ YD	200	200			
		Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1			
Δ		Z0022800	FENCE REMOVAL	FOOT	135	135			
Δ		Z0023201	SEDIMENT CONTROL, SILT CURTAIN	EACH	1	1			

* DENOTES SPECIALTY ITEM
 Δ INDICATES SPECIAL PROVISION

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BROOKFIELD AVE OVER SALT CREEK
 SUMMARY OF QUANTITIES**

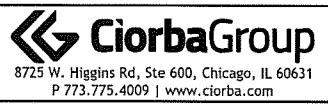
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	14
CONTRACT NO. 61G22			ILLINOIS FED. AID PROJECT	

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						CONSTRUCTION TYPE CODE			
						80% FED 20% STATE			
		CODE NO.	ITEM	UNIT	TOTAL QUANTITY	RDWY	LIGHTING	WATERMAIN	BRIDGE REPLACE
						0004	0021	0043	0010
									S.N. 016-6666
Δ	*	Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	12		12		
Δ	*	Z0045451	PRESSURE CONNECTION 16" WITH VAULT, 5' DIAMETER	EACH	2			2	
Δ		Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	198				198
Δ		Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1			
Δ		Z0056642	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE, 6"	FOOT	6	6			
Δ		Z0056668	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE, 12"	FOOT	74	74			
Δ		Z0056669	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE, 15"	FOOT	9	9			
Δ	*	Z0057300	SANITARY SEWER 18"	FOOT	86	86			
Δ	*	Z0058000	SANITARY SEWER, SPECIAL	FOOT	57	57			
Δ	*	Z0060200	SANITARY SEWER, TYPE 2 24"	FOOT	77	77			
#		Z0076600	TRAINEES	HOUR	1,000	1,000			
#	Δ	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	1,000	1,000			
Δ		Z0076870	UNDERDRAIN CONNECTION TO STRUCTURE	EACH	3	3			

0042
 * DENOTES SPECIALTY ITEM
 Δ INDICATES SPECIAL PROVISION

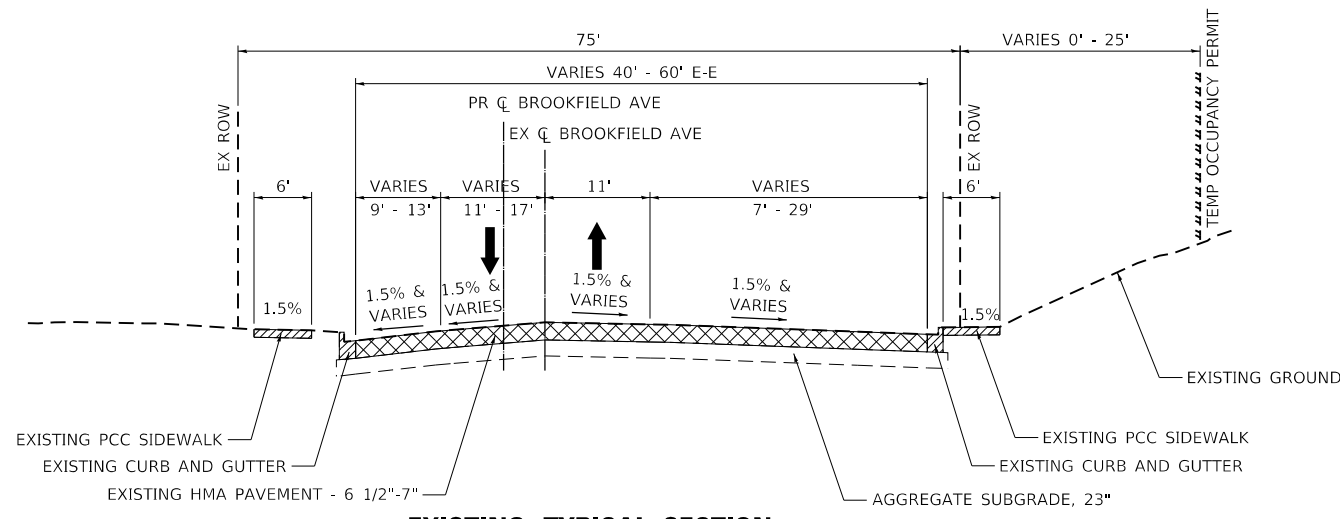


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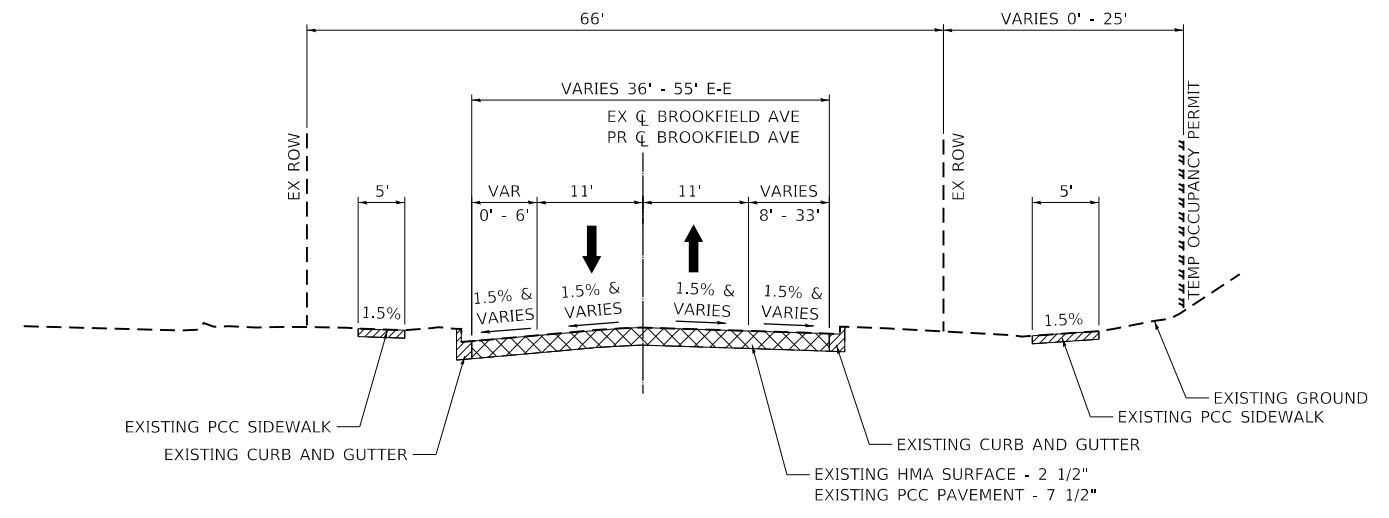
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BROOKFIELD AVE OVER SALT CREEK SUMMARY OF QUANTITIES			
SCALE: N.T.S.	SHEET 11	OF 11 SHEETS	STA. TO STA.

F.A.U. RTE. 1408	SECTION 15-00129-00-BR	COUNTY COOK	TOTAL SHEETS 114	SHEET NO. 15
CONTRACT NO. 61G22			ILLINOIS FED. AID PROJECT	





EXISTING TYPICAL SECTION
 BROOKFIELD AVENUE
 STA 504+00 TO 506+13
 STA 506+13 TO STA 507+78 (BRIDGE OMISSION)



EXISTING TYPICAL SECTION
 BROOKFIELD AVENUE
 STA 507+78 TO STA 510+00.75
 506+13 TO STA 507+78 (BRIDGE OMISSION)

LEGEND

-  PAVEMENT REMOVAL
-  CURB & GUTTER / SIDEWALK REMOVAL

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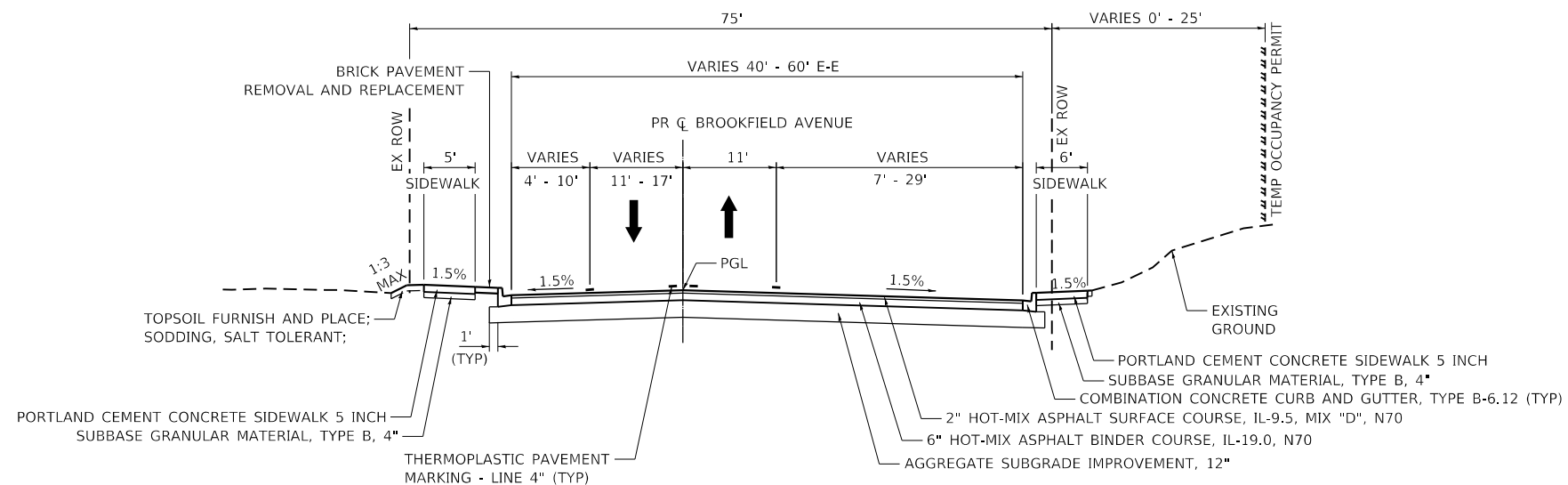
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BROOKFIELD AVE OVER SALT CREEK
 TYPICAL SECTIONS**

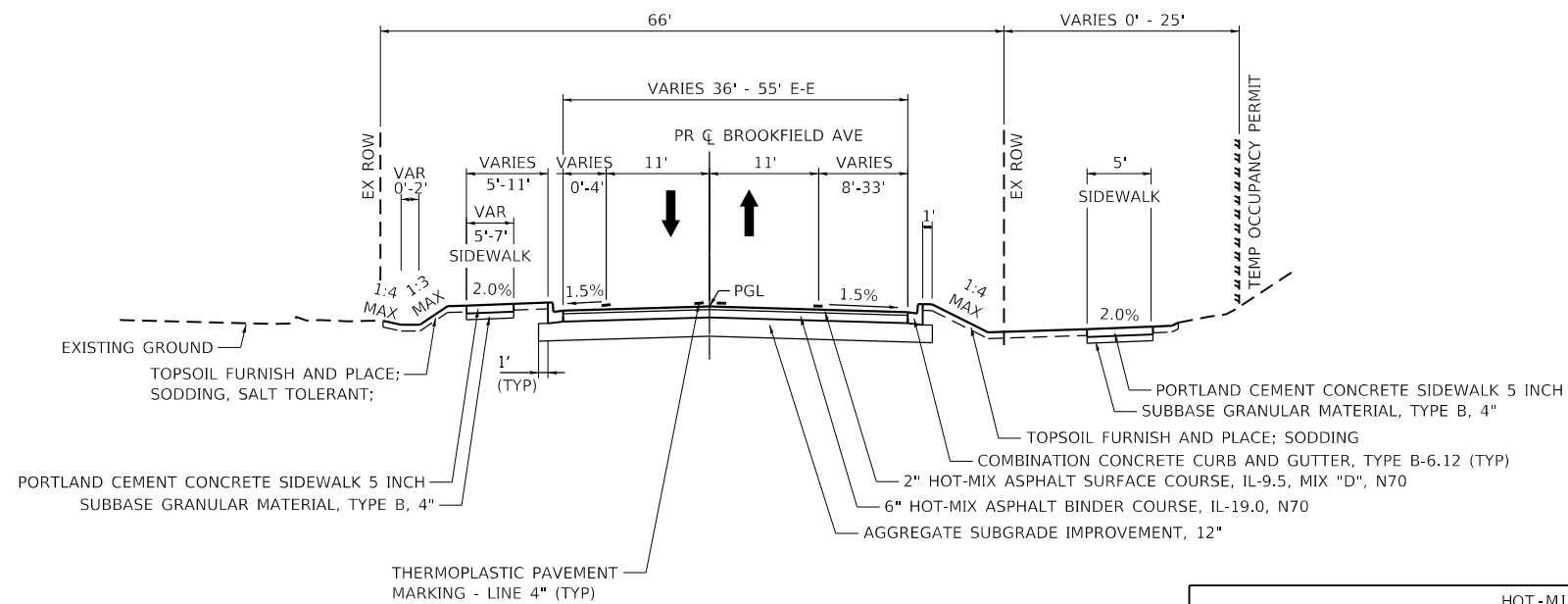
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	16
CONTRACT NO.			61G22	
ILLINOIS		FED. AID PROJECT		



PROPOSED TYPICAL SECTION

BROOKFIELD AVENUE
 STA 504+00.00 TO 506+12.06
 STA 506+12.06 TO STA 507+79.52 (BRIDGE OMISSION)



PROPOSED TYPICAL SECTION

BROOKFIELD AVENUE
 STA 507+79.52 TO STA 510+00.75
 506+12.06 TO STA 507+79.52 (BRIDGE OMISSION)

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	PERCENT AIR VOIDS
PAVEMENT	
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70; 2"	4% @ 70 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70; 6"	4% @ 70 GYR.
PATCHING	
CLASS D PATCHES (HMA BINDER IL-19mm)	4% @ 70 GYR.

1. THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/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 SPECIAL PROVISIONS.
3. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BROOKFIELD AVE OVER SALT CREEK
 TYPICAL SECTIONS**

SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	17
CONTRACT NO.			61G22	
ILLINOIS FED. AID PROJECT				

STATION	LENGTH	EARTH EXCAVATION	NON-SPECIAL WASTE	[1]	[1]	TOPSOIL REMOVAL (UNSUITABLE)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
				EARTH EXCAVATION FOR EMBANKMENT ADJUSTED FOR SHRINKAGE (15%)	EMBANKMENT		
	(FT)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)
503+99.99							
504+00.00	0.01	0.0		0.0	0.0	0.0	0.0
504+50.00	50.00	130.9		111.3	5.6	1.5	105.7
505+00.00	50.00	108.5		92.2	12.2	1.4	80.0
505+50.00	50.00	72.7	72.7	0.0	25.1	0.0	-25.1
506+00.00	50.00	30.4	30.4	0.0	39.8	0.0	-39.8
506+33.00	33.00	5.4	5.4	0.0	17.7	0.0	-17.7
506+50.00	17.00	2.8	2.8	0.0	1.7	0.0	-1.7
BRIDGE OMISSION							
507+33.00							
507+50.00	17.00	0.1		0.1	3.0	0.0	-2.9
507+66.00	16.00	0.1		0.0	8.6	1.0	-8.5
507+82.00	16.00	0.2		0.2	15.0	3.0	-14.9
508+00.00	18.00	2.2		1.9	22.5	4.5	-20.6
508+50.00	50.00	19.5		16.6	43.6	18.2	-27.0
508+73.00	23.00	14.6		12.4	12.5	8.4	-0.1
509+00.00	27.00	30.6		26.1	12.0	5.0	14.0
509+11.00	11.00	18.9		16.1	1.5	0.9	14.5
509+50.00	39.00	76.7		65.2	3.4	3.9	61.8
510+00.00	50.00	107.5		91.4	2.4	5.2	89.0
510+00.01	0.01	0.0		0.0	0.0	0.0	0.0
BRIDGE [2]			62.0				
TOTAL		621.1	173.2	433.5	226.7	53.1	206.8
ROUNDUP		622.0	174.0	434.0	227.0	54.0	207.0

NOTES:

- [1] - PROVIDED FOR INFORMATION ONLY.
- [2] - REMOVAL OF THIS MATERIAL IS PAID FOR AS STRUCTURE EXCAVATION

TREE REMOVAL (6 TO 15 UNITS DIAMETER)		
STA	LOCATION	UNIT
505+50	LT	12
506+23	LT	10
506+25	LT	12
507+61	RT	10
507+61	RT	10
508+35	LT	12
508+65	LT	6
TOTAL		72

TREE REMOVAL (OVER 15 UNITS DIAMETER)		
STA	LOCATION	UNIT
506+18	LT	42
TOTAL		42

THERMOPLASTIC PAVEMENT MARKING - LINE 12"						
STA	STA	LOCATION	LENGTH	MULTIPLY	TYPE	FOOT
505+49	506+48	LT	79.4	1.0	CHANNEL (WHITE)	79.4
506+48	508+84	LT	81.6	1.0	CHANNEL (WHITE)	81.6
505+25	506+24	RT	155.4	1.0	CHANNEL (WHITE)	155.4
506+24	508+81	RT	293.7	1.0	CHANNEL (WHITE)	293.7
509+23	509+62	RT	94.0	1.0	CHANNEL (WHITE)	94.0
510+04	510+15	RT	30.6	1.0	CHANNEL (WHITE)	30.6
TOTAL						735

THERMOPLASTIC PAVEMENT MARKING - LINE 4"						
STA	STA	LOCATION	LENGTH	MULTIPLY	TYPE	FOOT
504+00	508+89	CL	489.0	2.0	DOUBLE CENTER (YELLOW)	978.0
509+36	510+00	CL	64.4	2.0	DOUBLE CENTER (YELLOW)	128.8
504+00	508+81	LT	485.1	1.0	EDGE LINE (WHITE)	485.1
504+00	510+00	RT	600.7	1.0	EDGE LINE (WHITE)	600.7
504+00	505+49	LT	63.0	1.0	PRLL PRK (WHITE)	63.0
503+81	505+42	RT	344.0	1.0	DIAG PRK (WHITE)	344.0
508+66	510+15	RT	309.7	1.0	DIAG PRK (WHITE)	309.7
TOTAL						2,910

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PLOT SCALE = 2.0000' / 1"	DATE - 10/5/2020	REVISED -
PLOT DATE = 11/2/2020		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BROOKFIELD AVE OVER SALT CREEK
SCHEDULE OF QUANTITIES

SCALE: N.T.S. SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	18
CONTRACT NO.			61G22	
ILLINOIS		FED. AID PROJECT		

STRUCTURE RIM ADJUSTMENTS														
STRUCTURE ID	STATION	OFFSET		STRUCTURE TYPE	FRAME / LID TYPE	OWNER	EX. RIM. ELEV.	FINAL RIM ELEV.	ADJUSTMENT HEIGHT (IN.)	60250200	60300305	60300405	X6025600	X6030310
										CATCH BASINS TO BE ADJUSTED	FRAMES AND LIDS TO BE ADJUSTED	VALVE BOX FRAMES TO BE ADJUSTED	MANHOLES TO BE ADJUSTED (SPECIAL)	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
1	504+86	38.7	RT	CATCH BASIN	TY 1 FR & OL	BROOKFIELD	617.46	617.83	4.4		1			
2	504+87	21.1	LT	CATCH BASIN	TY 1 FR & OL	BROOKFIELD	617.14	618.10	11.5		1			
3	504+95	6.0	LT	MANHOLE / STORM SEWER	TY 1 FR & CL	BROOKFIELD	617.96	618.39	5.1		1			
4	504+96	19.8	LT	JUNCTION CHAMER W/ RISER / COMBINED SEWER	MWRD CL	MWRD	617.82	618.19	4.4					1
5	504+97	33.9	LT	MANHOLE / COMBINED SEWER	MWRD CL	MWRD	618.04	619.27	14.7				1	
6	505+07	40.4	RT	MANHOLE / COMBINED SEWER	MWRD CL	MWRD	618.03	618.93	10.8					1
7	505+08	47.5	RT	MANHOLE / COMBINED SEWER	MWRD CL	MWRD	618.73	618.73	0.0	NO ADJUSTMENT				
8	505+09	5.6	RT	MANHOLE / COMBINED SEWER	MWRD CL	MWRD	618.24	618.52	3.3					1
9	505+14	22.5	LT	CATCH BASIN	TY 1 FR & OL	BROOKFIELD	617.16	618.32	13.9	1				
10	505+47	42.9	RT	MANHOLE / COMBINED SEWER	MWRD CL	MWRD	618.11	618.39	3.4					1
11	505+56	32.6	RT	MANHOLE / COMBINED SEWER	MWRD CL	MWRD	618.36	618.82	5.5					1
12	505+60	40.8	LT	MANHOLE / COMBINED SEWER	MWRD CL	MWRD	618.99	619.52	6.4					1
13	505+64	42.1	LT	MANHOLE / COMBINED SEWER	MWRD CL	MWRD	619.05	619.05	0.0	NO ADJUSTMENT				
14	505+65	31.2	RT	MANHOLE / COMBINED SEWER	MWRD CL	MWRD	618.21	619.20	12.0					1
15	505+78	40.7	LT	MANHOLE / COMBINED SEWER	MWRD CL	MWRD	618.54	619.67	13.6				1	
16	507+83	24.0	LT	MANHOLE / COMBINED SEWER	MWRD CL	MWRD	618.35	620.23	22.6				1	
17	508+03	25.0	LT	WATER MAIN VALVE		BROOKFIELD	617.89	619.85	23.5			1		
18	508+18	25.5	LT	WATER MAIN VALVE		BROOKFIELD	617.84	619.66	21.8			1		
19	508+23	2.3	LT	MANHOLE / COMBINED SEWER	MWRD CL	MWRD	617.96	618.95	12.5					1
20	508+29	4.7	LT	MANHOLE / COMBINED SEWER	MWRD CL	MWRD	617.88	618.87	11.9					1
21	508+41	5.0	LT	MANHOLE / COMBINED SEWER	MWRD CL	MWRD	617.81	618.68	10.4					1
22	508+50	21.9	LT	MANHOLE / COMBINED SEWER	MWRD CL	MWRD	618.22	619.21	12.0					1
23	508+50	15.2	LT	MANHOLE / COMBINED SEWER	MWRD CL	MWRD	618.05	618.39	4.0					1
24	508+50	8.8	LT	MANHOLE / COMBINED SEWER	MWRD CL	MWRD	617.6	618.48	10.6					1
25	508+55	30.5	RT	MANHOLE / STORM SEWER	TY 1 FR & CL	BROOKFIELD	617.4	617.56	1.9		1			
26	508+72	40.1	RT	CATCH BASIN	TY 1 FR & OL	BROOKFIELD	616.52	617.68	13.9	1				
27	508+74	3.2	LT	MANHOLE / COMBINED SEWER	TY 1 FR & CL	BROOKFIELD	617.79	618.23	5.3		1			
28	509+11	28.0	LT	CATCH BASIN	TY 1 FR & OL	BROOKFIELD	617.1	617.33	2.8		1			
29	509+44	42.7	RT	CATCH BASIN	TY 1 FR & OL	BROOKFIELD	616.81	617.91	13.2	1				
30	509+50	33.4	RT	MANHOLE / COMBINED SEWER	TY 1 FR & CL	BROOKFIELD	617.207	617.21	0.0	NO ADJUSTMENT				
TOTAL										3	6	2	3	13

UNDERDRAIN SCHEDULE						60108204	Z0076870	
FROM STRUCTURE		STRUCTURE OFFSET	TO STRUCTURE		STRUCTURE OFFSET	PROPOSED ALIGNMENT	PIPE UNDERDRAINS, TYPE 1, 4"	UNDERDRAIN CONNECTION TO STRUCTURE
NO.	STATION	(FT)	NO.	STATION	(FT)		(FOOT)	(EACH)
--	504+43	LT	--	504+43	RT	BROOKFIELD AVE.	59	1
--	504+43	LT	--	504+43	RT	BROOKFIELD AVE.	59	1
--	509+63	RT	--	509+63	LT	BROOKFIELD AVE.	34	
--	509+63	RT	--	509+63	LT	BROOKFIELD AVE.	34	
--	509+63	LT	EX. CB	510+04	LT	BROOKFIELD AVE.	39	1
TOTAL							225	3

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DRAWN - DDS	REVISIONS -	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BROOKFIELD AVE OVER SALT CREEK
SCHEDULE OF QUANTITIES

SCALE: N.T.S. SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	19
CONTRACT NO.			61G22	
ILLINOIS FED. AID PROJECT				

TEMPORARY FENCE (201011000), TREE ROOT PRUNING (20101200)					
ALIGNMENT	STA	OFFSET	LF (20101100)	EA (20101200)	
PRE-CONSTRUCTION PHASE					
BROOKFIELD AVE	503+98	33.1	LT	15	1
BROOKFIELD AVE	505+74	43.6	LT	15	1
BROOKFIELD AVE	505+75	42.8	LT	15	1
BROOKFIELD AVE	505+81	43.3	LT	15	1
BROOKFIELD AVE	506+06	50.5	LT	15	
BROOKFIELD AVE	506+07	51.6	LT	15	
BROOKFIELD AVE	507+28	46.8	LT	15	1
BROOKFIELD AVE	507+39	43.5	LT	15	1
BROOKFIELD AVE	507+79	37.0	LT	15	
BROOKFIELD AVE	508+89	32.1	LT	15	1
BROOKFIELD AVE	509+91	18.1	LT	15	
TOTAL				165	7

PERIMETER EROSION CONTROL BARRIER (28000400)					
ALIGNMENT	START STA.	OFFSET	END STA.	OFFSET	LF
PRE-CONSTRUCTION PHASE					
BROOKFIELD AVE	504+00	30.3	LT	504+72	39.5
BROOKFIELD AVE	504+76	41.5	LT	506+36	18.4
BROOKFIELD AVE	505+44	35.9	RT	506+62	25.6
BROOKFIELD AVE	507+30	24.9	LT	507+97	36.2
BROOKFIELD AVE	507+99	47.2	LT	508+43	46.1
BROOKFIELD AVE	507+58	22.1	RT	508+70	41.4
TOTAL					794

INLET FILTER (28000510)				
ALIGNMENT	STA.	OFFSET	EACH	
PRE-CONSTRUCTION PHASE				
BROOKFIELD AVE	504+86	39.0	RT	1
BROOKFIELD AVE	504+87	21.3	LT	1
BROOKFIELD AVE	505+14	22.5	LT	1
BROOKFIELD AVE	507+61	14.8	LT	1
BROOKFIELD AVE	507+62	15.3	RT	1
BROOKFIELD AVE	508+73	12.9	LT	1
BROOKFIELD AVE	508+71	40.2	RT	1
BROOKFIELD AVE	509+11	27.9	LT	1
BROOKFIELD AVE	509+33	17.5	LT	1
BROOKFIELD AVE	509+44	42.8	RT	1
BROOKFIELD AVE	510+04	11.0	LT	1
CONSTRUCTION PHASE				
BROOKFIELD AVE	504+44	39.9	RT	1
BROOKFIELD AVE	508+30	20.7	RT	1
BROOKFIELD AVE	508+56	21.7	RT	1
BROOKFIELD AVE	508+73	14.4	LT	1
BROOKFIELD AVE	509+33	17.5	LT	1
TOTAL				16

TURF REINFORCEMENT MAT (SPECIAL) (X2510900)					
ALIGNMENT	START STA.	OFFSET	START STA.	OFFSET	SQ YD
POST-CONSTRUCTION PHASE					
BROOKFIELD AVE	506+38	RT	506+72	RT	39
TOTAL					39

INLET PROTECTION, SPECIAL (X2800500)				
ALIGNMENT	STA	OFFSET	EACH	
CONSTRUCTION PHASE				
BROOKFIELD	508+56	30.5	RT	1
BROOKFIELD	508+80	32.1	LT	1
TOTAL				2

TEMPORARY EROSION CONTROL SEEDING (28000250) , EROSION CONTROL BLANKET (SPECIAL) (X2511630), HEAVY DUTY EROSION CONTROL BLANKET, SPECIAL (X2510635), SEEDING, CLASS 4A (MODIFIED) (X2502014), SODDING, SALT TOLERANT (25200110), TOPSOIL FURNISH AND PLACE, 4" (21101615), SUPPLEMENTAL WATERING (25200200)											
ALIGNMENT	START STA.	OFFSET	END STA.	OFFSET	ACRE (X2502014)	SQ YD (X2511630)	SQ YD (X2510635)	SQ YD (25200110)	SQ YD (21101615)	UNIT (25200110)	POUND (28000250)
CONSTRUCTION PHASE											
BROOKFIELD AVE	504+00	LT	504+75	LT		33					0.67
BROOKFIELD AVE	504+77	LT	506+00	LT		145					2.98
BROOKFIELD AVE	506+00	LT	506+36	LT			41				0.83
BROOKFIELD AVE	504+00	RT	505+45	RT		21					0.43
BROOKFIELD AVE	505+54	RT	505+57	RT		2					0.03
BROOKFIELD AVE	505+43	RT	506+38	RT		111					2.29
BROOKFIELD AVE	506+38	RT	506+72	RT				39			0.79
BROOKFIELD AVE	507+18	LT	507+34	LT				21			0.42
BROOKFIELD AVE	507+34	LT	507+97	LT		89					1.83
BROOKFIELD AVE	508+02	LT	509+00	LT		99					2.03
BROOKFIELD AVE	508+10	LT	508+97	LT		49					1.00
BROOKFIELD AVE	509+27	LT	509+81	LT		21					0.42
BROOKFIELD AVE	509+30	LT	510+00	LT		60					1.22
BROOKFIELD AVE	507+52	RT	507+83	RT			45				0.93
BROOKFIELD AVE	507+83	RT	508+70	RT		136					2.79
BROOKFIELD AVE	508+35	RT	510+00	RT		105					2.16
POST-CONSTRUCTION PHASE											
BROOKFIELD AVE	504+00	LT	504+75	LT				33	33	0.20	
BROOKFIELD AVE	504+77	LT	506+02	LT				139	139	0.83	
BROOKFIELD AVE	506+02	LT	506+23	LT	0.005		27		27		
BROOKFIELD AVE	504+00	RT	505+45	RT				21	21	0.13	
BROOKFIELD AVE	505+54	RT	505+57	RT				2	2	0.01	
BROOKFIELD AVE	505+43	RT	506+38	RT				110	110	0.66	
BROOKFIELD AVE	506+38	RT	506+72	RT	0.008				39		
BROOKFIELD AVE	507+30	LT	507+43	LT	0.004	21			21		
BROOKFIELD AVE	507+43	LT	507+97	LT				68	68	0.41	
BROOKFIELD AVE	508+02	LT	509+00	LT				99	99	0.59	
BROOKFIELD AVE	508+10	LT	508+97	LT				49	49	0.29	
BROOKFIELD AVE	509+27	LT	509+81	LT				21	21	0.13	
BROOKFIELD AVE	509+30	LT	510+00	LT				60	60	0.36	
BROOKFIELD AVE	507+67	RT	507+79	RT	0.004		17		17		
BROOKFIELD AVE	507+79	RT	508+70	RT				141	141	0.85	
BROOKFIELD AVE	508+35	RT	510+00	RT				105	105	0.63	
TOTAL					0.021	892	190	848	952	5.09	20.82
ROUNDED TOTAL					0.25	892	190	848	952	5.10	21.00

TREE, CELTIS OCCIDENTALIS CHICAGOLAND (CHICAGOLAND COMMON HACKBERRY), 2" CALIPER, BALLED AND BURLAPPED (A2002879)				
ALIGNMENT	STA.	OFFSET	EACH	
POST-CONSTRUCTION PHASE				
BROOKFIELD AVE	504+70	35.5	LT	1
BROOKFIELD AVE	505+15	38.8	LT	1
BROOKFIELD AVE	505+42	42.6	LT	1
BROOKFIELD AVE	506+22	32.3	RT	1
BROOKFIELD AVE	509+80	16.6	LT	1
TOTAL				5

TREE, SYRINGA PEKINENSIS (PEKING LILAC), 2" CALIPER, TREE FORM, BALLED AND BURLAPPED (B2006016)				
ALIGNMENT	STA.	OFFSET	EACH	
POST-CONSTRUCTION PHASE				
BROOKFIELD AVE	507+57	39.1	LT	1
BROOKFIELD AVE	508+37	35.7	RT	1
BROOKFIELD AVE	508+57	36.8	RT	1
TOTAL				3

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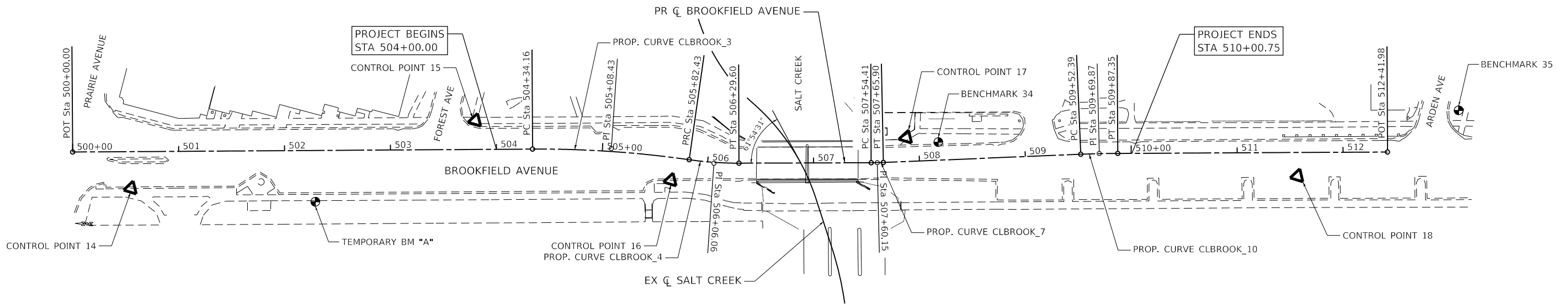
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BROOKFIELD AVE OVER SALT CREEK
SCHEDULE OF QUANTITIES**

SCALE: N.T.S. SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.U. RTE. 1408	SECTION 15-00129-00-BR	COUNTY COOK	TOTAL SHEETS 114	SHEET NO. 20
CONTRACT NO. 61G22			ILLINOIS FED. AID PROJECT	

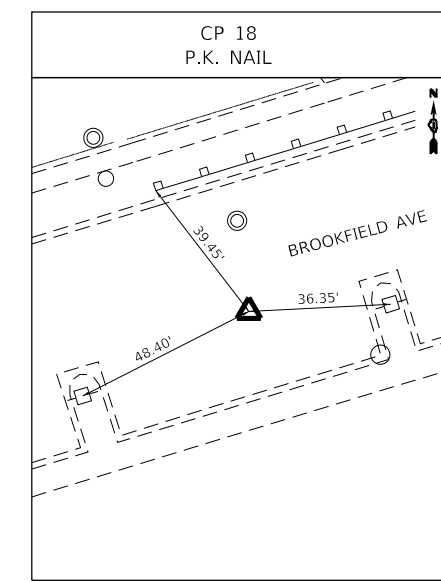
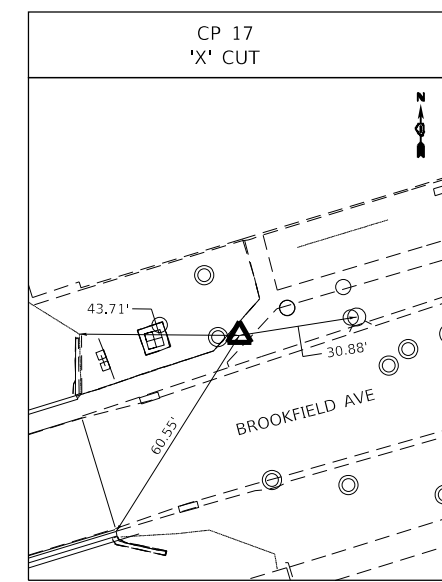
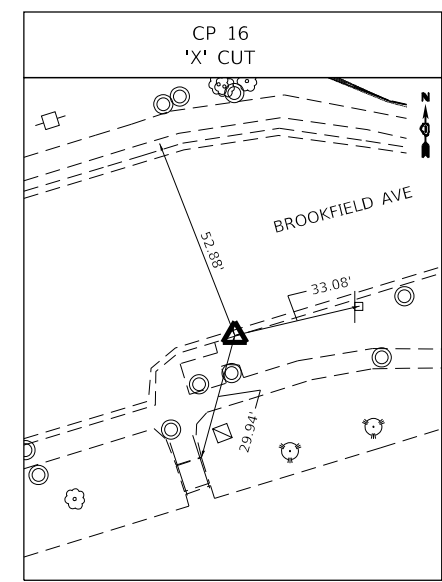
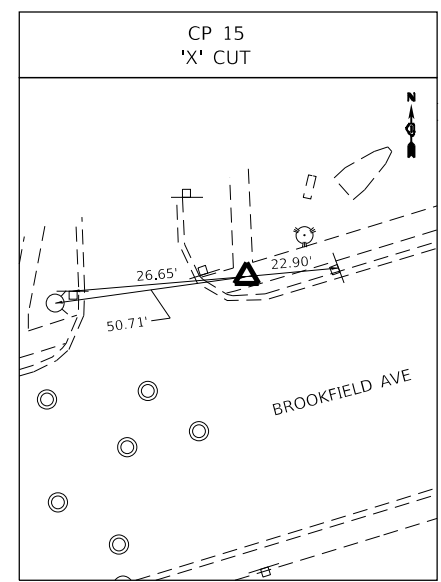
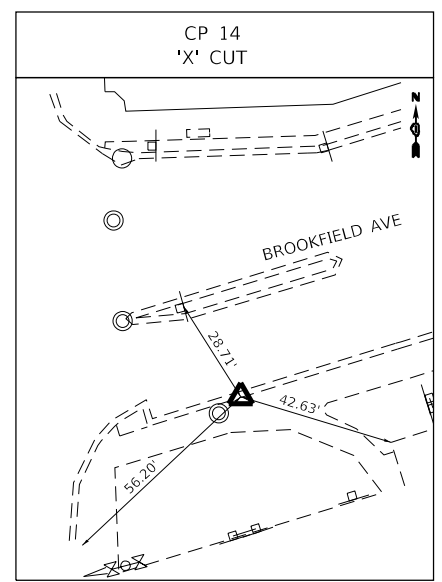


PROP. CURVE CLBROOK 3	PROP. CURVE CLBROOK 4	PROP. CURVE CLBROOK 7	PROP. CURVE CLBROOK 10
PI STA. = 505+08.43	PI STA. = 506+06.06	PI STA. = 507+60.15	PI STA. = 509+69.87
$\Delta = 8^\circ 29' 44''$ (RT)	$\Delta = 8^\circ 18' 58''$ (LT)	$\Delta = 2^\circ 11' 41''$ (LT)	$\Delta = 2^\circ 00' 10''$ (RT)
D = 5° 43' 46"	D = 17° 37' 46"	D = 19° 05' 55"	D = 5° 43' 46"
R = 1,000.00'	R = 325.00'	R = 300.00'	R = 1,000.00'
T = 74.27'	T = 23.63'	T = 5.75'	T = 17.48'
L = 148.28'	L = 47.17'	L = 11.49'	L = 34.95'
E = 2.75'	E = 0.86'	E = 0.06'	E = 0.15'
P.C. STA. = 504+34.16	P.C. STA. = 505+82.43	P.C. STA. = 507+54.41	P.C. STA. = 509+52.39
P.T. STA. = 505+82.43	P.T. STA. = 506+29.60	P.T. STA. = 507+65.90	P.T. STA. = 509+87.35
e = N.C.	e = N.C.	e = N.C.	e = N.C.
D.S. = 30 MPH	D.S. = 30 MPH	D.S. = 30 MPH	D.S. = 30 MPH

POINT	NORTHING	EASTING	ELEV	STATION	OFFSET
14	1,878,180.31	1,117,700.03	619.56	500+54.83	34.67 RT
15	1,878,335.07	1,117,992.98	618.09	503+80.32	27.26 LT
16	1,878,334.11	1,118,185.99	618.11	505+66.92	19.05 RT
17	1,878,436.72	1,118,387.18	618.34	507+88.04	23.42 LT
18	1,878,507.95	1,118,751.46	617.83	510+64.33	22.35 RT

POINT	STATION	NORTHING	EASTING
P.O.T.	500+00.00	1,878,197.35	1,117,637.43
P.C.	504+34.16	1,878,324.83	1,118,052.45
P.R.C.	505+82.43	1,878,357.72	1,118,196.90
P.T.	506+29.60	1,878,368.11	1,118,242.87
P.C.	507+54.41	1,878,404.38	1,118,362.28
P.T.	507+65.90	1,878,407.93	1,118,373.21
P.C.	509+52.39	1,878,468.93	1,118,549.45
P.T.	509+87.34	1,878,479.73	1,118,582.69
P.O.T.	512+41.97	1,878,554.19	1,118,826.19

POINT	STATION	OFFSET	ELEVATION	DESCRIPTION
TBM "A"	502+29	48 RT	621.16	EAST MOST SOUTHERN BOLT OF FHYD ON SOUTH SIDE OF BROOKFIELD AVE (FIRST HYD EAST OF INTERSECTION WITH PRAIRIE AVE)
BM 34	508+19	17 LT	620.12	NORTH-NORTHWEST B-BOLT OF FHYD IN FRONT OF VILLAGE HALL
BM 35	513+09	39 LT	620.29	NORRTH B-BOLT OF FHYD AT NE CORNER OF ARDEN AVE AND BROOKFIELD AVE



- NOTES:**
- ALL COORDINATES SHOWN ARE BASED UPON THE NAD 83 (2011 ADJ) VALUES. MAP COORDINATES REFLECT ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE.
 - ALL COORDINATE VALUES SHOWN ARE IN THE U.S. SURVEY FOOT UNITS
 - ELEVATIONS REFLECT THE NAVD 88 VALUES

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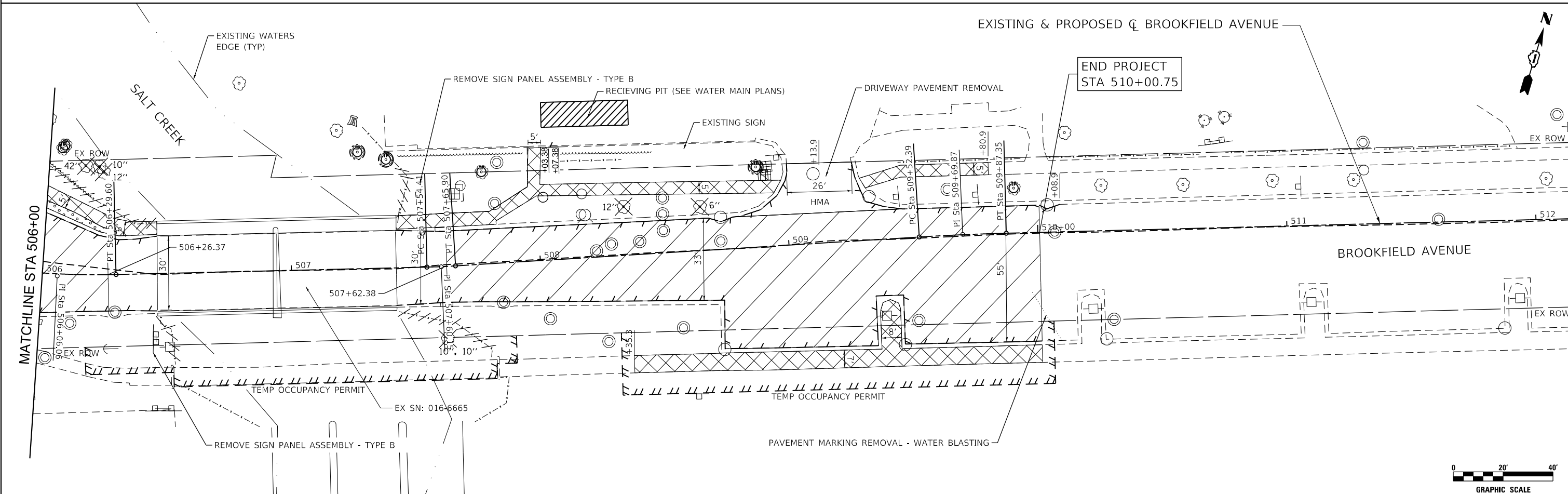
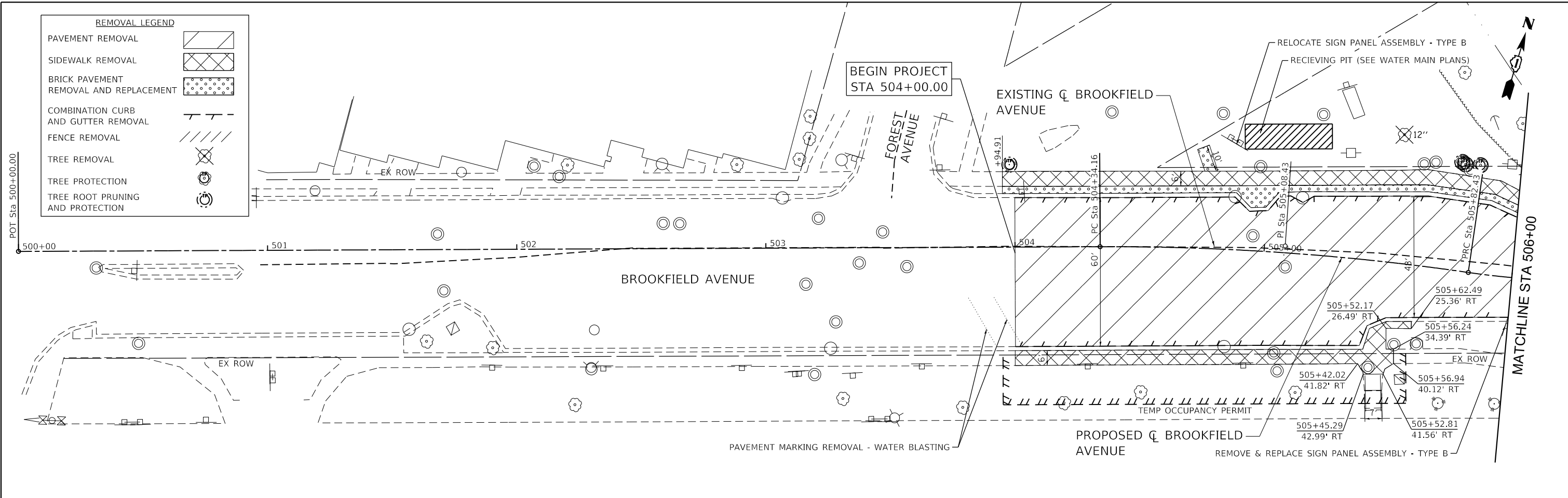
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BROOKFIELD AVE OVER SALT CREEK
ALIGNMENT, TIES AND BENCHMARKS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	21
CONTRACT NO.			61G22	
ILLINOIS FED. AID PROJECT				

REMOVAL LEGEND	
PAVEMENT REMOVAL	
SIDEWALK REMOVAL	
BRICK PAVEMENT REMOVAL AND REPLACEMENT	
COMBINATION CURB AND GUTTER REMOVAL	
FENCE REMOVAL	
TREE REMOVAL	
TREE PROTECTION	
TREE ROOT PRUNING AND PROTECTION	



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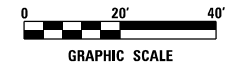
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BROOKFIELD AVE OVER SALT CREEK
EXISTING CONDITIONS & REMOVAL PLAN

SCALE: 1" = 20' SHEET 1 OF 1 SHEETS STA. 500+00 TO STA. 512+00

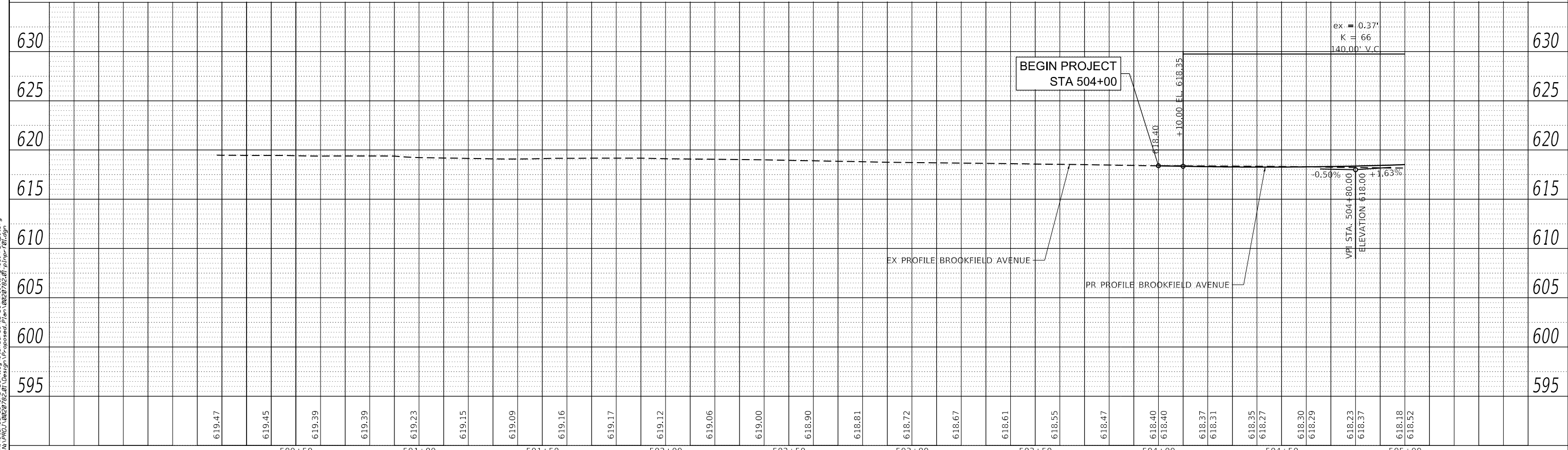
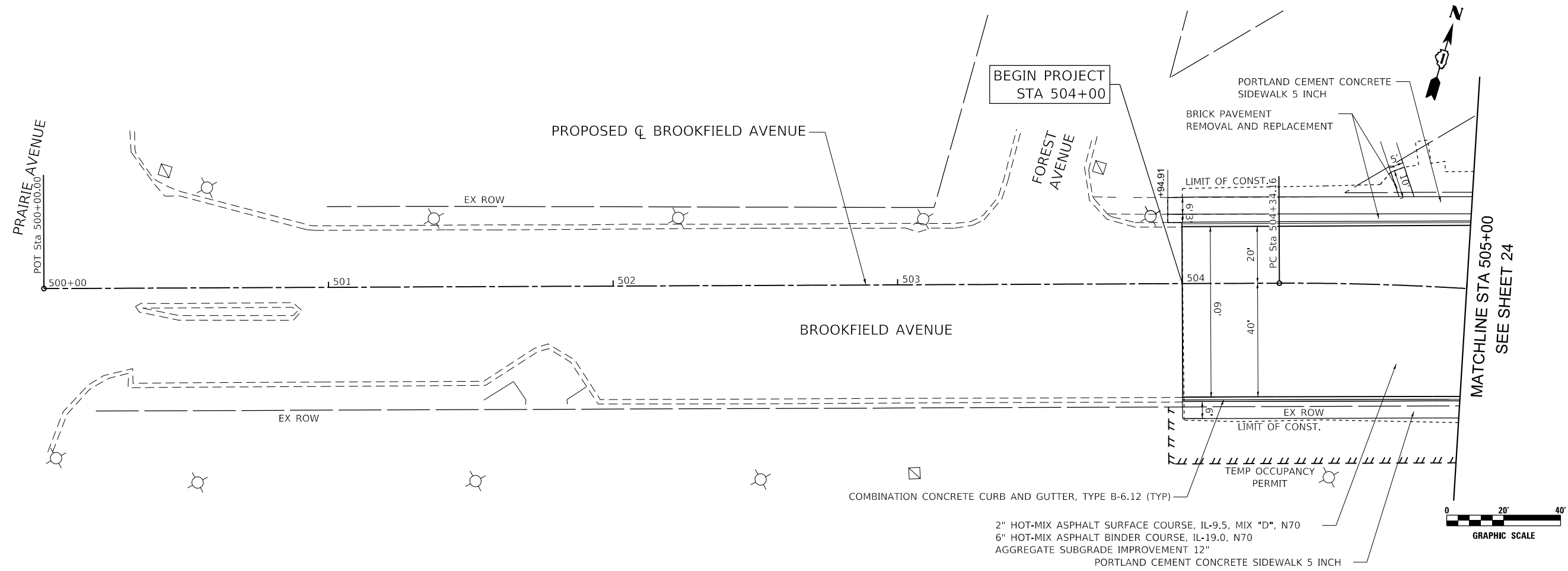
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1408	15-00129-00-BR	COOK	114	22
CONTRACT NO.			61G22	
ILLINOIS FED. AID PROJECT				



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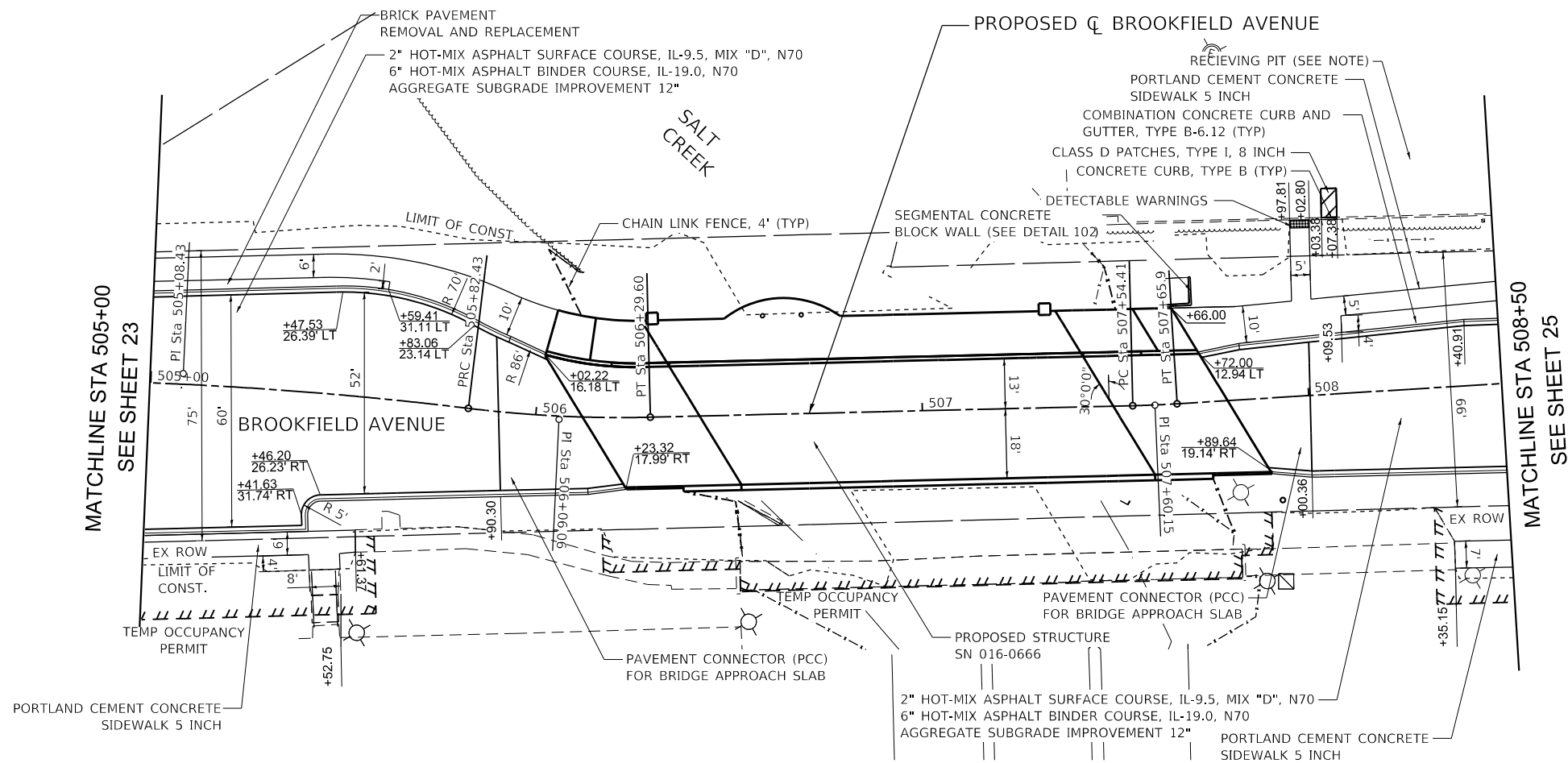
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																500+50	501+00			501+50	502+00	502+50	503+00	503+50	504+00	504+50	505+00														
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PLOT SCALE = 40,0000' / in.		PLOT DATE = 11/22/2020		SCALE: 1" = 20'		SHEET 1 OF 3 SHEETS		STA. 500+00 TO STA. 505+00		F.A.U. RTE. 1408		SECTION 15-00129-00-BR		COUNTY COOK		TOTAL SHEETS 114																				SHEET NO. 23		CONTRACT NO. 61G22			
ILLINOIS		FED. AID PROJECT																																							



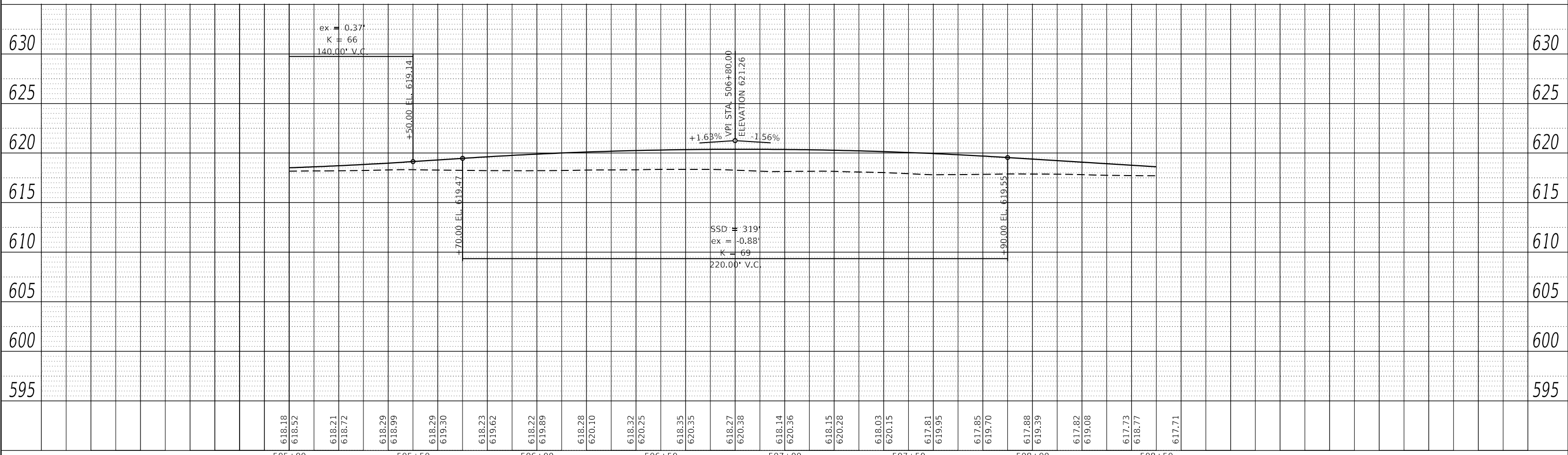
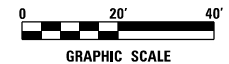
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	NOTED	
	ALIGNED	
	CHECKED	
	FILED	
	BY	
	DATE	

PROFILE	SURVEYED	DATE
	NOTED	
	GRADES	
	CHECKED	
	STRUCTURE	
	NOTED	
	DATE	

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NOTE
 RESTORATION OF THE RECEIVING PIT SHALL BE INCLUDED IN THE COST OF THE WATER MAIN WORK

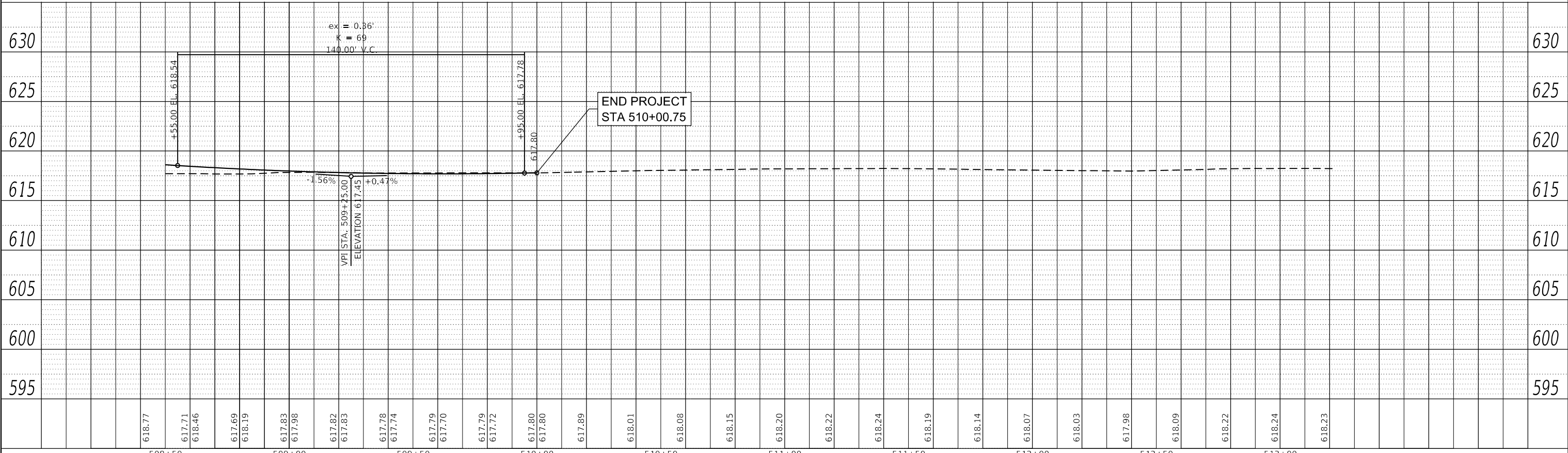
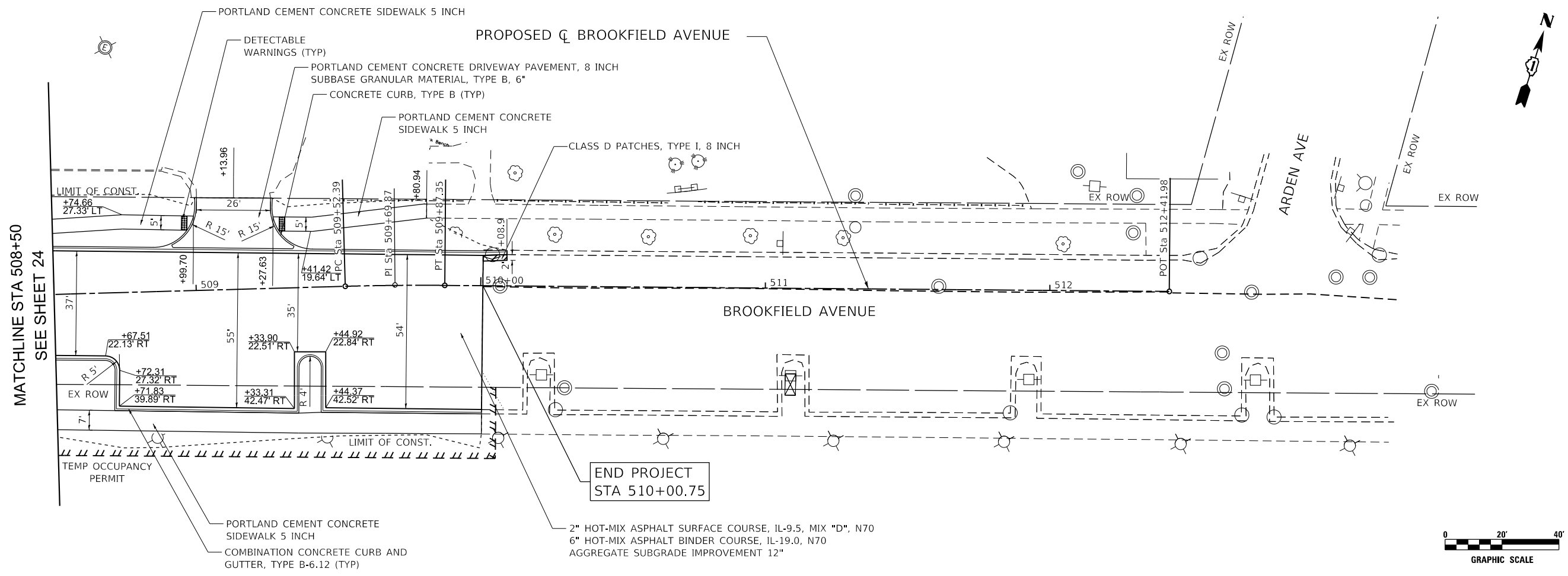


<p>8725 W. Higgins Rd, Ste 600, Chicago, IL 60631 P 773.775.4009 www.ciorba.com</p>	USER NAME = untitled	DESIGNED - EPS	REVISED -	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p> <p align="center">BROOKFIELD AVE OVER SALT CREEK PLAN AND PROFILE</p>	F.A.U. RTE. = 1408	SECTION = 15-00129-00-BR	COUNTY = COOK	TOTAL SHEETS = 114	SHEET NO. = 24		
	PLOT SCALE = 40,000.00' / in.	CHECKED - DJO	REVISED -		SCALE: 1" = 20'	SHEET 2 OF 3 SHEETS	STA. 505+00 TO STA. 508+50	CONTRACT NO. 61G22			
	PLOT DATE = 11/22/2020	DATE = 10/5/2020	REVISED -		ILLINOIS FED. AID PROJECT						

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

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

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		DATE -	10/5/2020	REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BROOKFIELD AVE OVER SALT CREEK
 PLAN AND PROFILE**

SCALE: 1" = 20' SHEET 3 OF 3 SHEETS STA. 508+50 TO STA. 513+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	25
CONTRACT NO.			61G22	
ILLINOIS FED. AID PROJECT				

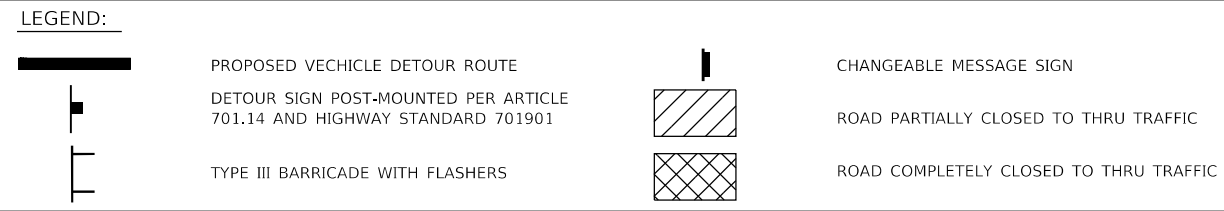
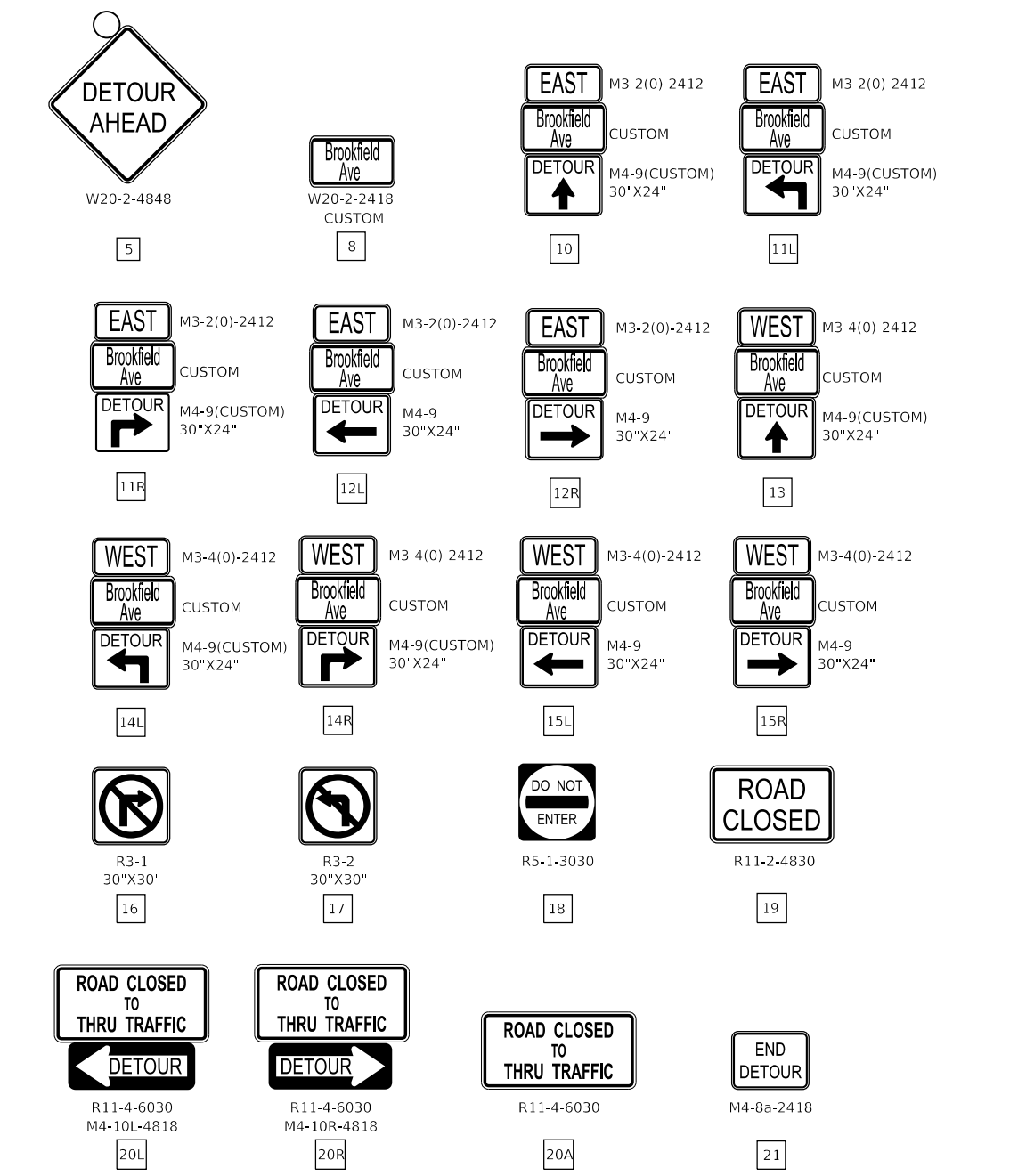
EASTBOUND Brookfield Avenue BRIDGE CLOSED FOLLOW DETOUR

WESTBOUND Brookfield Avenue BRIDGE CLOSED FOLLOW DETOUR

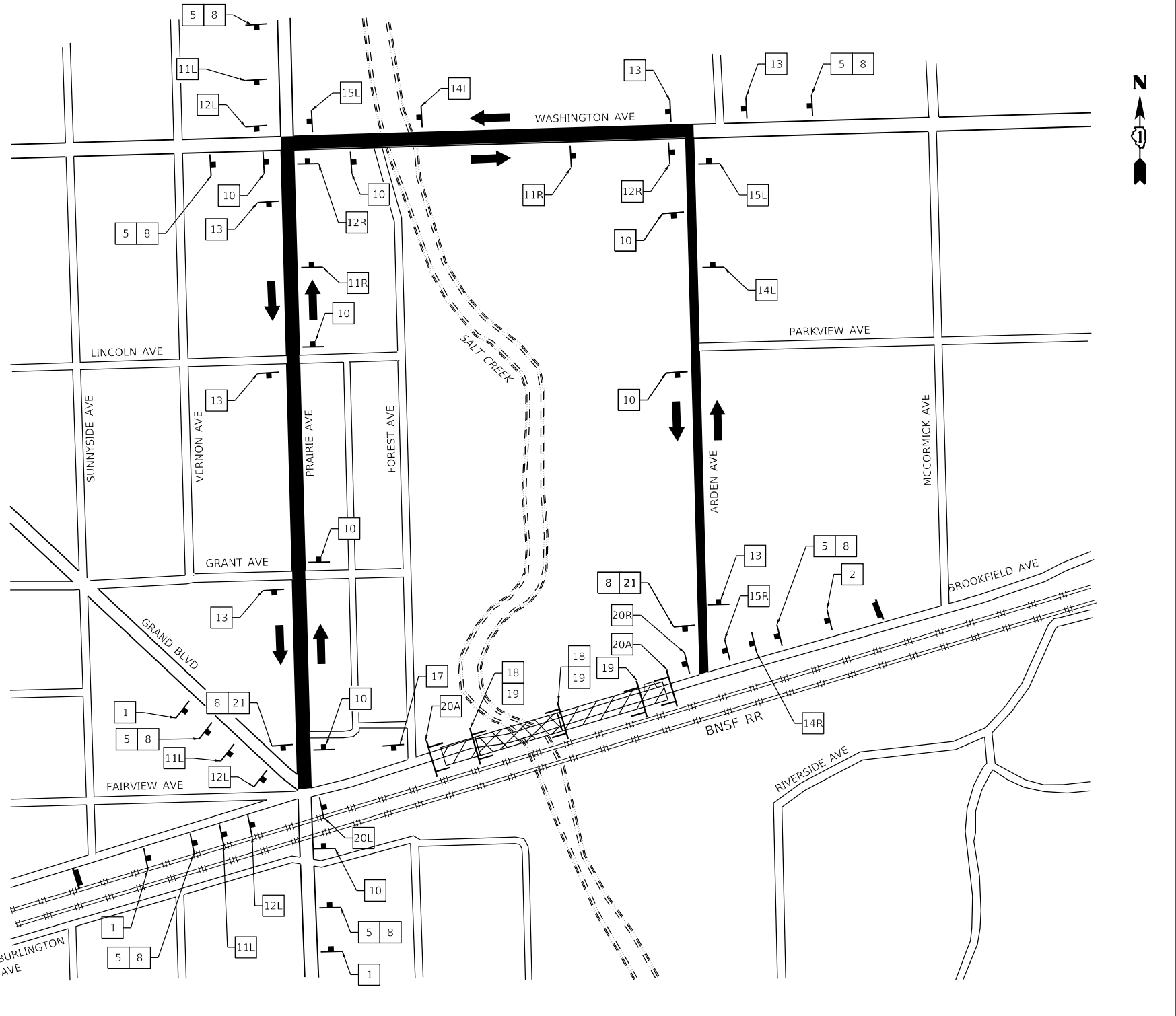
60"x48" 6" BLACK LETTERS ON ORANGE REFLECTIVE BACKGROUND

60"x48" 6" BLACK LETTERS ON ORANGE REFLECTIVE BACKGROUND

BEGINS MMDD/YYYY NOT USED



- NOTES:**
- SIGN 1 WITH SIGN 3 COVERING SHALL BE PLACED ONE (1) WEEK PRIOR TO CLOSURE. REMOVE SIGN 3 ONCE DETOUR BEGINS.
 - THE CONTRACTOR SHALL CALL J.U.L.I.E. BEFORE INSTALLING SIGNS.
 - ROAD CLOSURE SIGNAGE SHALL NOT BE INSTALLED ON ANY STREET LIGHT POLES OR SIGNAL POLES.
 - ROAD CLOSURE SIGNAGE SHALL NOT BLOCK ANY EXISTING SIGNS AND CANNOT USE THE EXISTING SIGN POSTS.
 - TYPE III BARRICADE PLACEMENT SHALL FOLLOW HIGHWAY STANDARD 701901.
 - SIGN SPACING SHALL FOLLOW DISTRICT 1 DETAIL TC-21 UNLESS NOTED ON PLAN.
 - PLAN NOT TO SCALE.
- NOTES CONT:**
- VEHICLE ACCESS SHALL BE MAINTAINED TO THE BROOKFIELD VILLAGE HALL PARKING LOT AT ALL TIMES DURING CONSTRUCTION. THIS WORK SHALL BE PAID FOR AS TEMPORARY ACCESS (COMMERCIAL ENTRANCE).
 - PEDESTRIAN ACCESS SHALL BE MAINTAINED AT ALL TIMES TO THE PEDESTRIAN BRIDGE TO THE SOUTH OF THE BROOKFIELD AVENUE BRIDGE DURING CONSTRUCTION. THIS WORK SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).
 - METRA PARKING SPACES SHALL REMAIN OPEN TO THE PUBLIC AT ALL TIMES. CONTRACTOR SHALL NOT USE THIS AREA FOR VEHICLE PARKING OR STORAGE OF CONSTRUCTION MATERIALS.



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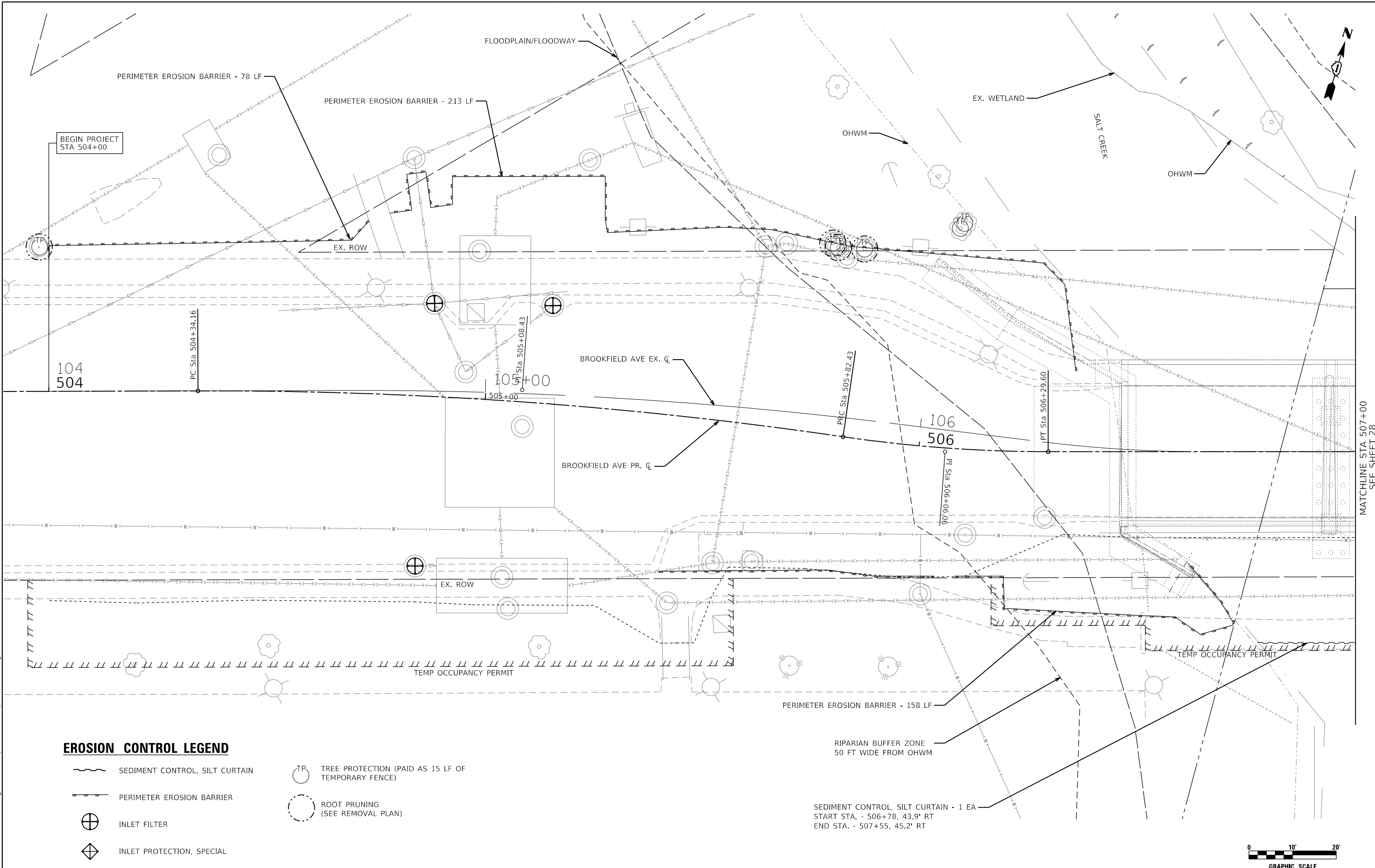
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PLOT DATE = 11/2/2020	CHECKED - DJO	REVISED -
	DATE - 10/5/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BROOKFIELD AVE OVER SALT CREEK
DETOUR PLAN**

SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	26
CONTRACT NO.			61G22	
ILLINOIS FED. AID PROJECT				

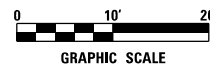


MATCHLINE STA 507+00
SEE SHEET 28

EROSION CONTROL LEGEND

- SEDIMENT CONTROL, SILT CURTAIN
- PERIMETER EROSION BARRIER
- INLET FILTER
- INLET PROTECTION, SPECIAL
- TREE PROTECTION (PAID AS 15 LF OF TEMPORARY FENCE)
- ROOT PRUNING (SEE REMOVAL PLAN)

SEDIMENT CONTROL, SILT CURTAIN - 1 EA
START STA. - 506+78, 43.9' RT
END STA. - 507+55, 45.2' RT



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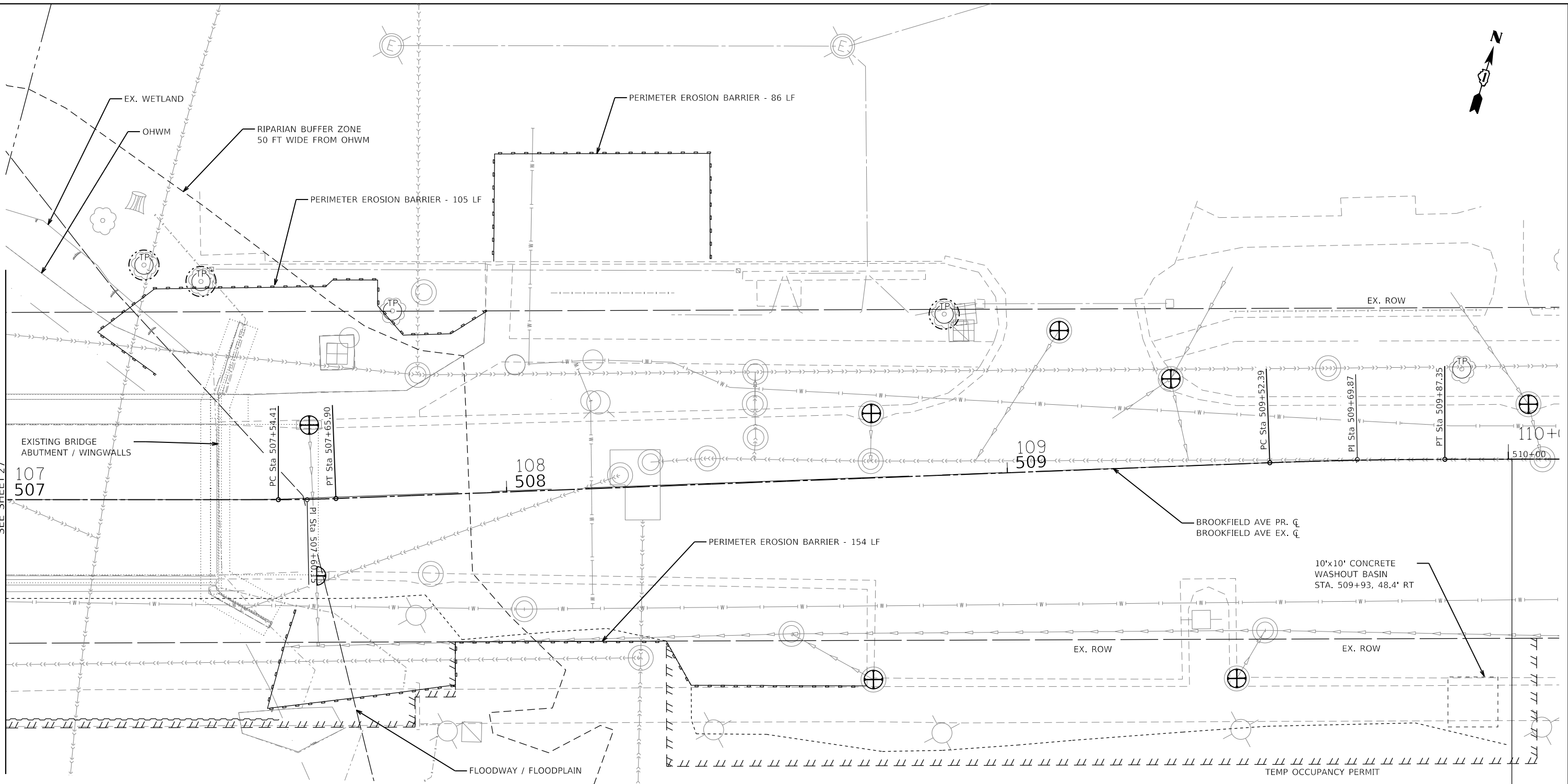
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BROOKFIELD AVE OVER SALT CREEK
EROSION CONTROL & LANDSCAPING PLAN - PRE-CONSTRUCTION**

SCALE: 1" = 10' SHEET 1 OF 6 SHEETS STA. 504+00 TO STA. 507+00

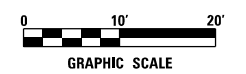
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1408	15-00129-00-BR	COOK	114	27
CONTRACT NO. 61G22				

ILLINOIS FED. AID PROJECT



MATCHLINE STA 507+00
SEE SHEET 27

END PROJECT
STA 510+00.75



EROSION CONTROL LEGEND

- SEDIMENT CONTROL, SILT CURTAIN
- PERIMETER EROSION BARRIER
- INLET FILTER
- INLET PROTECTION, SPECIAL
- TREE PROTECTION (PAID AS 15 LF OF TEMPORARY FENCE)
- ROOT PRUNING (SEE REMOVAL PLAN)

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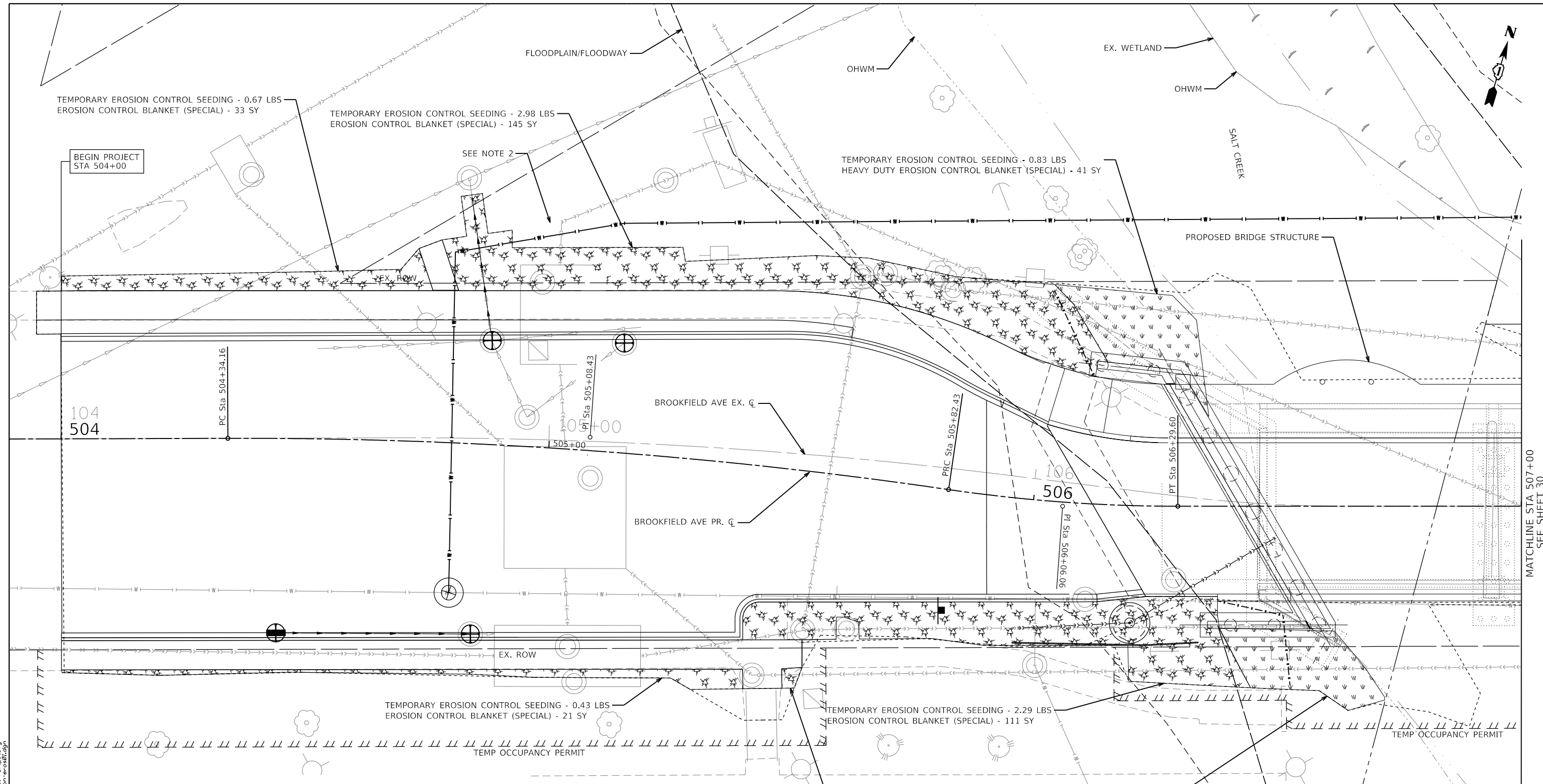
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

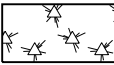
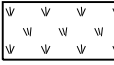


**BROOKFIELD AVE OVER SALT CREEK
EROSION CONTROL & LANDSCAPING PLAN - PRE-CONSTRUCTION**

SCALE: 1" = 10' SHEET 2 OF 6 SHEETS STA. 507+00 TO STA. 510+01

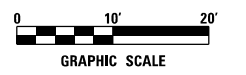
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	28
CONTRACT NO.			61G22	
ILLINOIS		FED. AID PROJECT		



EROSION CONTROL LEGEND

-  EROSION CONTROL BLANKET (SPECIAL) W/ TEMPORARY EROSION CONTROL SEEDING
-  HEAVY DUTY EROSION CONTROL BLANKET (SPECIAL) W/ TEMPORARY EROSION CONTROL SEEDING
-  INLET FILTER
-  INLET PROTECTION, SPECIAL

- NOTES**
1. ALL EROSION CONTROL BLANKET FOR THIS PROJECT SHALL BE ADJUSTED TO WILDLIFE SAFETY TYPE. FOR TEMPORARY EROSION CONTROL SEEDING, USE HEAVY DUTY EROSION CONTROL BLANKET (SPECIAL) ON SLOPES STEEPER THAN 3:1. USE EROSION CONTROL BLANKET (SPECIAL) FOR ANY 3:1 SLOPES OR FLATTER.
 2. RESTORATION AT LAUNCHING AND RECEIVING PITS IS INCLUDED IN THE COST OF THE HDD WATER MAIN WORK.



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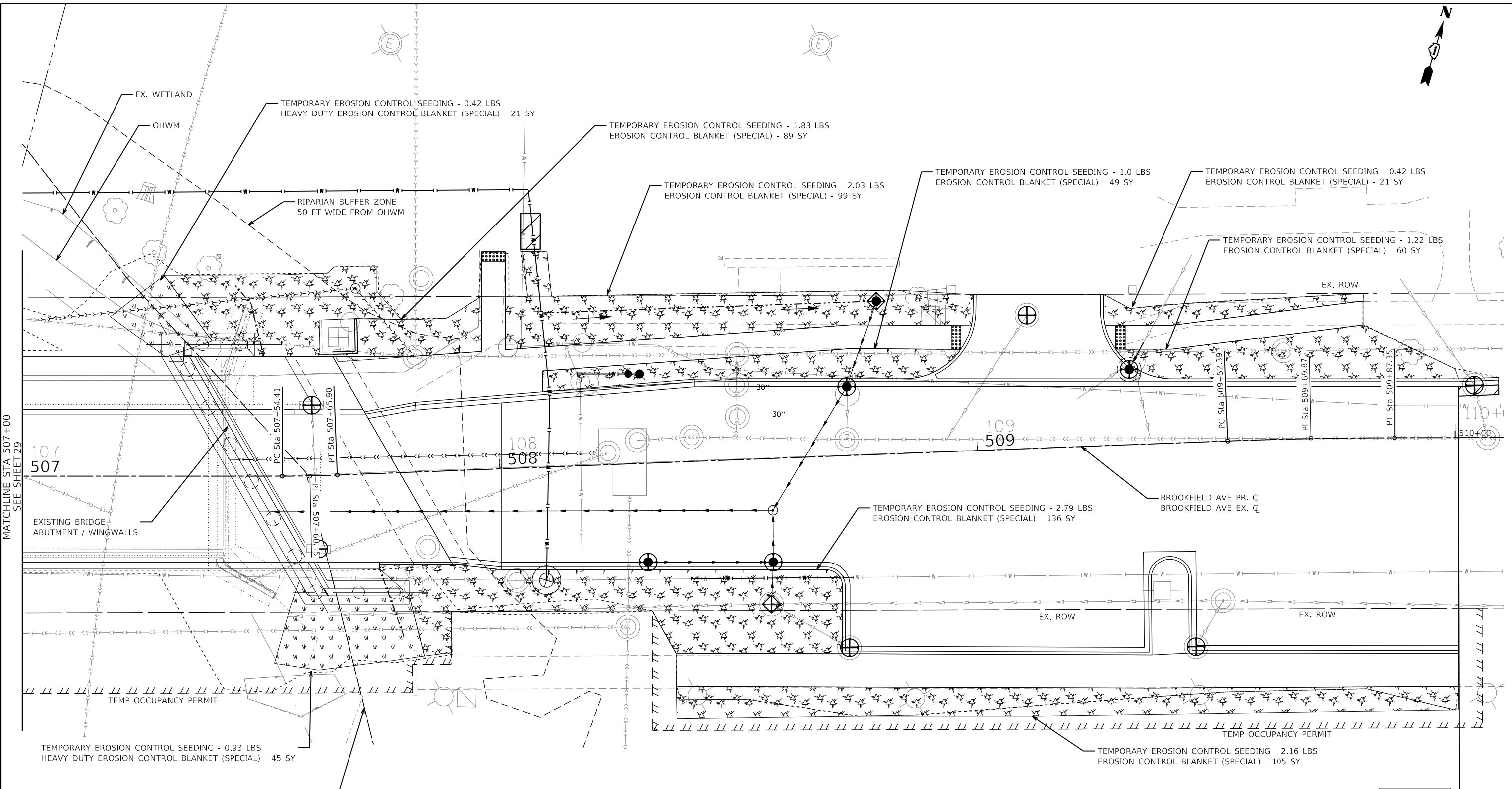
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BROOKFIELD AVE OVER SALT CREEK
EROSION CONTROL & LANDSCAPING PLAN - CONSTRUCTION

SCALE: 1" = 10' SHEET 3 OF 6 SHEETS STA. 504+00 TO STA. 507+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	29
CONTRACT NO.			61G22	
ILLINOIS FED. AID PROJECT				

MATCHLINE STA 507+00
 SEE SHEET 30



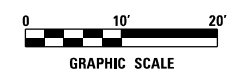
EROSION CONTROL LEGEND

- EROSION CONTROL BLANKET (SPECIAL) W/ TEMPORARY EROSION CONTROL SEEDING
- HEAVY DUTY EROSION CONTROL BLANKET (SPECIAL) W/ TEMPORARY EROSION CONTROL SEEDING
- INLET FILTER
- INLET PROTECTION, SPECIAL

NOTES

1. ALL EROSION CONTROL BLANKET FOR THIS PROJECT SHALL BE ADJUSTED TO WILDLIFE SAFETY TYPE. FOR TEMPORARY EROSION CONTROL SEEDING, USE HEAVY DUTY EROSION CONTROL BLANKET (SPECIAL) ON SLOPES STEEPER THAN 3:1. USE EROSION CONTROL BLANKET (SPECIAL) FOR ANY 3:1 SLOPES OR FLATTER.
2. RESTORATION AT LAUNCHING AND RECEIVING PITS IS INCLUDED IN THE COST OF THE HDD WATER MAIN WORK.

END PROJECT
STA 510+00.75



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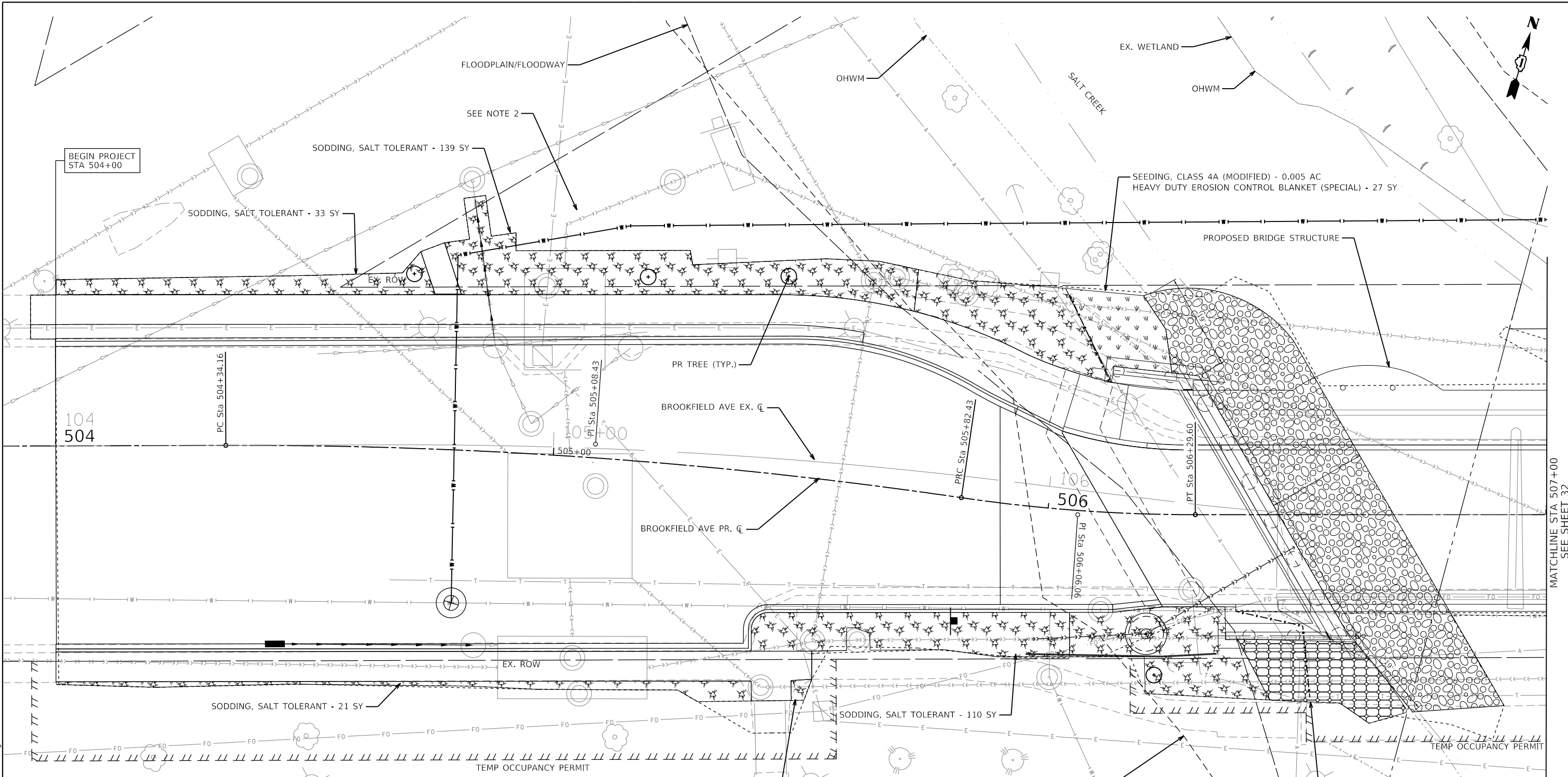
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**


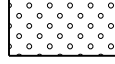
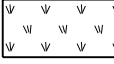




**BROOKFIELD AVE OVER SALT CREEK
EROSION CONTROL & LANDSCAPING PLAN - CONSTRUCTION**

SCALE: 1" = 10' SHEET 4 OF 6 SHEETS STA. 507+00 TO STA. 510+01

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	30
CONTRACT NO.			61G22	
ILLINOIS		FED. AID PROJECT		



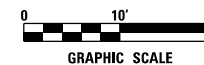
EROSION CONTROL LEGEND

-  SODDING, SALT TOLERANT
-  EROSION CONTROL BLANKET (SPECIAL) W/ SEEDING, CLASS 4A (MODIFIED)
-  HEAVY DUTY EROSION CONTROL BLANKET (SPECIAL) W/ SEEDING, CLASS 4A (MODIFIED)
-  TURF REINFORCEMENT MAT (SPECIAL) W/ SEEDING, CLASS 4A (MODIFIED)
-  RIPRAP CLASS A5, W/FILTER FABRIC
-  TREE, CELTIS OCCIDENTALIS CHICAGOLAND (CHICAGOLAND COMMON HACKBERRY), 2" CALIPER, BALLED AND BURLAPPED
-  TREE, SYRINGA PEKINENSIS (PEKING LILAC), 2" CALIPER, TREE FORM, BALLED AND BURLAPPED

NOTES

1. ALL EROSION CONTROL BLANKET FOR THIS PROJECT SHALL BE ADJUSTED TO WILDLIFE SAFETY TYPE. USE HEAVY DUTY EROSION CONTROL BLANKET (SPECIAL) ON SLOPES EQUAL OR FLATTER THAN 2:1 BUT STEEPER THAN 3:1. USE EROSION CONTROL BLANKET (SPECIAL) FOR ANY SLOPES 3:1 OR FLATTER. TURF REINFORCEMENT MAT (SPECIAL) SHALL ONLY BE USED AT SLOPES STEEPER THAN 2:1.
2. RESTORATION AT LAUNCHING AND RECEIVING PITS IS INCLUDED IN THE COST OF THE HDD WATER MAIN WORK.
3. ALL SEEDED AND SODDED AREA SHALL HAVE TOPSOIL FURNISH AND PLACE, 4". ALL SODDED AREAS SHALL HAVE SUPPLEMENTAL WATERING.

SEEDING, CLASS 4A (MODIFIED) - 0.008 AC
TURF REINFORCEMENT MAT (SPECIAL) - 39 SY



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PLOT DATE = 1/20/2021	DATE - 10/5/2020	REVISED -

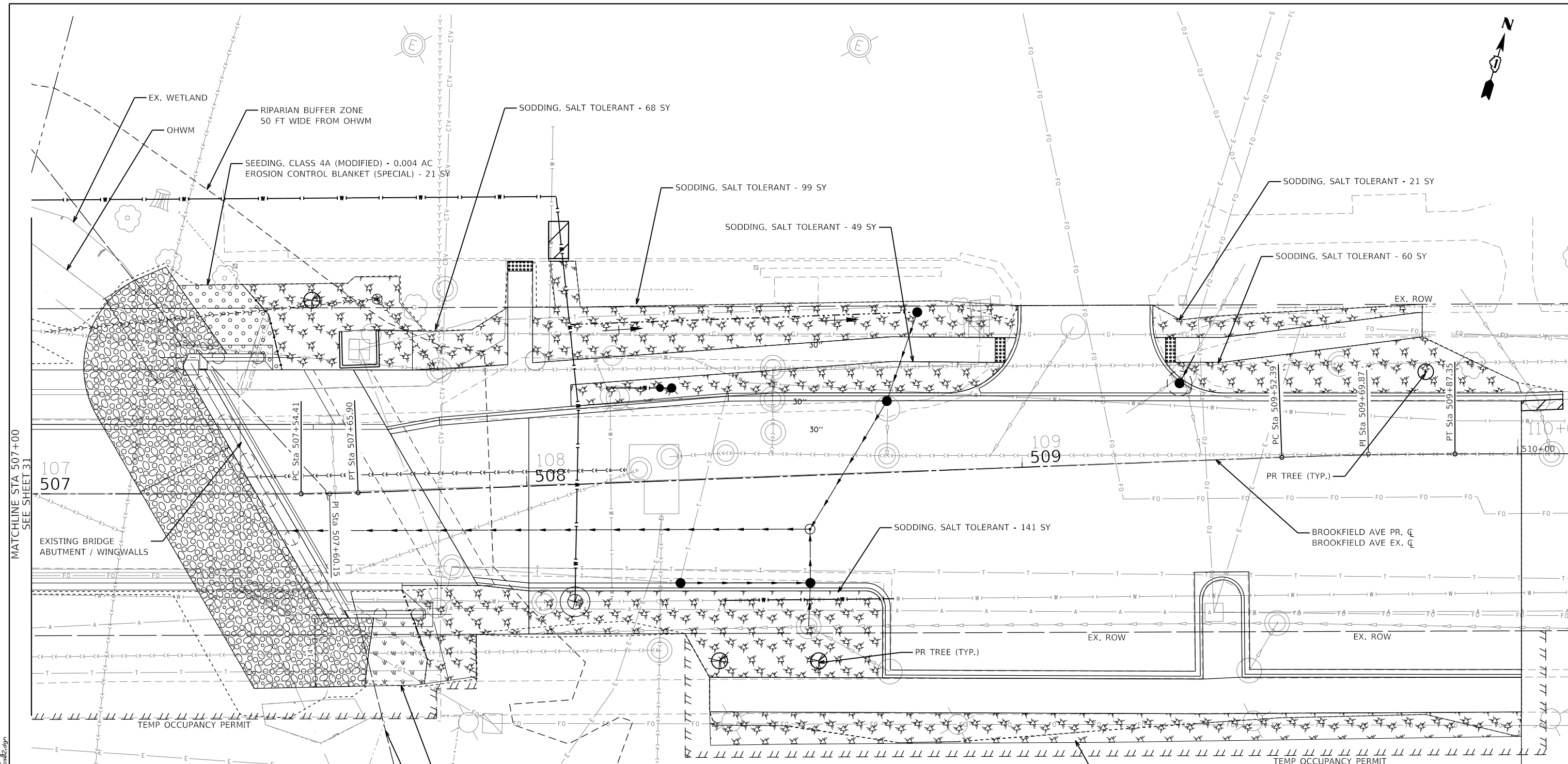
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BROOKFIELD AVE OVER SALT CREEK
EROSION CONTROL & LANDSCAPING PLAN - POST-CONSTRUCTION**

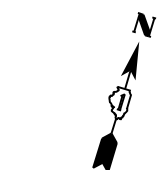
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	31
CONTRACT NO.			61G22	
ILLINOIS FED. AID PROJECT				

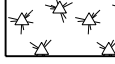

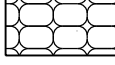

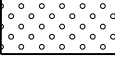


MATCHLINE STA 507+00
SEE SHEET 32



MATCHLINE STA 507+00
SEE SHEET 31

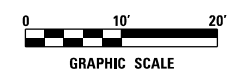


EROSION CONTROL LEGEND

-  SODDING, SALT TOLERANT
-  HEAVY DUTY EROSION CONTROL BLANKET (SPECIAL) W/ SEEDING, CLASS 4A (MODIFIED)
-  TURF REINFORCEMENT MAT (SPECIAL) W/ SEEDING, CLASS 4A (MODIFIED)
-  RIPRAP CLASS A5, W/FILTER FABRIC
-  FLOODWAY / FLOODPLAIN
-  TREE, CELTIS OCCIDENTALIS CHICAGOLAND (CHICAGOLAND COMMON HACKBERRY), 2" CALIPER, BALLED AND BURLAPPED
-  TREE, SYRINGA PEKINENSIS (PEKING LILAC), 2" CALIPER, TREE FORM, BALLED AND BURLAPPED

NOTES

1. ALL EROSION CONTROL BLANKET FOR THIS PROJECT SHALL BE ADJUSTED TO WILDLIFE SAFETY TYPE. USE HEAVY DUTY EROSION CONTROL BLANKET (SPECIAL) ON SLOPES EQUAL OR FLATTER THAN 2:1 BUT STEEPER THAN 3:1. USE EROSION CONTROL BLANKET (SPECIAL) FOR ANY SLOPES 3:1 OR FLATTER. TURF REINFORCEMENT MAT (SPECIAL) SHALL ONLY BE USED AT SLOPES STEEPER THAN 2:1.
2. RESTORATION AT LAUNCHING AND RECEIVING PITS IS INCLUDED IN THE COST OF THE HDD WATER MAIN WORK.
3. ALL SEEDED AND SODDED AREA SHALL HAVE TOPSOIL FURNISH AND PLACE, 4". ALL SODDED AREAS SHALL HAVE SUPPLEMENTAL WATERING.



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	DRAWN - DDS	REVISED -
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PLOT DATE = 1/20/2021	DATE - 10/5/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BROOKFIELD AVE OVER SALT CREEK
EROSION CONTROL & LANDSCAPING PLAN - POST - CONSTRUCTION**

SCALE: 1" = 10' SHEET 6 OF 6 SHEETS STA. 507+00 TO STA. 510+01

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	32
CONTRACT NO.			61G22	
ILLINOIS FED. AID PROJECT				

EROSION CONTROL AND LANDSCAPING NOTES:

1. NO WORK SHALL BE PERFORMED IN FLOWING WATER, WORK IN OR NEAR THE CRITICAL AREAS SHOULD BE ISOLATED FROM CONCENTRATED FLOWS OR STREAM FLOW. ONCE WORK IN THIS AREA BEGINS, PRIORITY SHALL BE GIVEN TO THE COMPLETION OF THE WORK AND FINAL STABILIZATION OF ALL DISTURBED AREAS.
2. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. AREAS OF THE DEVELOPMENT SITE THAT ARE NOT TO BE GRADED SHALL BE PROTECTED FROM CONSTRUCTION TRAFFIC OR OTHER DISTURBANCE UNTIL FINAL SEEDING IS PERFORMED.
3. PROPERTIES AND CHANNELS ADJOINING THE DEVELOPMENT SITE SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION.
4. SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.
5. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN FOURTEEN (14) CALENDAR DAYS FOLLOWING THE END OF ACTIVE HYDROLOGIC DISTURBANCE.
6. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION, DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (E.G. SEDIMENT TRAP, SEDIMENT BASIN, OR OTHER APPROPRIATE MEASURES).
7. ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. TRAPPED SEDIMENT AND OTHER DISTURBED SOIL AREAS SHALL BE STABILIZED.
8. SOIL STOCKPILES SHALL NOT BE LOCATED IN FLOOD-PRONE AREA OR A DESIGNATED BUFFER PROTECTING WATERS OF THE UNITED STATES OR ISOLATED WATERS OF COOK COUNTY.
9. CLEANING OF VEHICLES AND EQUIPMENT SHALL BE PERFORMED IN A MANNER TO REDUCE THE AMOUNT OF POLLUTANTS TRIBUTARY TO STORM SEWERS AND OPEN WATERS TO THE MAXIMUM EXTENT POSSIBLE.
10. ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR POLLUTION RUNOFF. LEAKY EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.
11. CONTRACTOR SHALL PROVIDE AN INSTREAM WORK PLAN FOR REVIEW BY THE RESIDENT ENGINEER AND WRITTEN APPROVAL BY BOTH THE ARMY CORPS AND WILL/SOUTH COOK SOIL AND WATER CONSERVATION DISTRICT (WCSWCD) PRIOR TO STARTING ANY IN-STREAM WORK.
12. THE PORTION OF THE SIDE SLOPE THAT IS ABOVE THE OBSERVED WATER ELEVATION SHALL BE STABILIZED AS SPECIFIED IN THE PLANS PRIOR TO ACCEPTING FLOWS. THE SUBSTRATE AND TOE OF SLOPE THAT HAS BEEN DISTURBED DUE TO CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO PROPOSED OR PRE-CONSTRUCTION CONDITIONS AND FULLY STABILIZED PRIOR TO ACCEPTING FLOWS.
13. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED TO THE STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL, LATEST EDITION.
14. THE WILL / SOUTH COOK SOIL AND WATER CONSERVATION DISTRICT (WCSWCD) MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION MEETING, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.
15. A COPY OF THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN SHALL BE MAINTAINED AT THE SITE AT ALL TIMES.
16. PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS, A SUPPLEMENTARY EROSION CONTROL PLAN SHALL BE SUBMITTED FOR REVIEW BY THE WCSWCD.
17. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE WCSWCD.
18. DURING DEWATERING OPERATIONS, WATER WILL BE FILTERED, OR PUMPED INTO SEDIMENT BASINS OR SILT TRAPS. DEWATERING DIRECTLY INTO STREAMS, WETLANDS, FIELD TILES, OR STORMWATER STRUCTURES IS PROHIBITED.
19. IT IS THE RESPONSIBILITY OF THE LANDOWNER AND/OR GENERAL CONTRACTOR TO INFORM ANY SUB-CONTRACTOR(S), WHO MAY PERFORM WORK ON THIS SITE/PROJECT, OF THE REQUIREMENTS IN IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS AND ASSURE COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.

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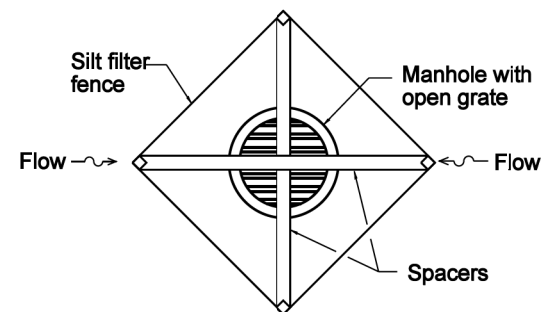
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BROOKFIELD AVE OVER SALT CREEK
EROSION CONTROL GENERAL NOTES**

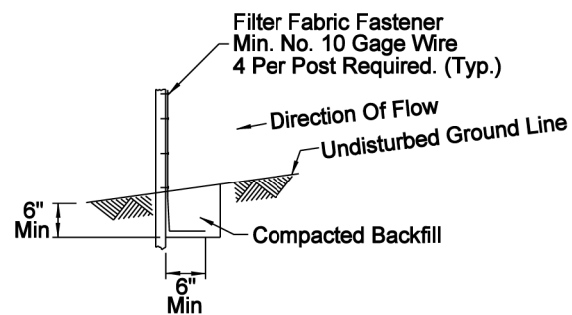
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	33
CONTRACT NO.			61G22	
ILLINOIS		FED. AID PROJECT		

INLET PROTECTION (SPECIAL)

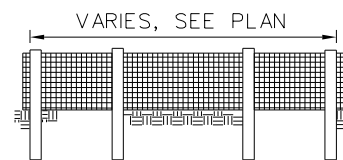


INLET AND PIPE PROTECTION

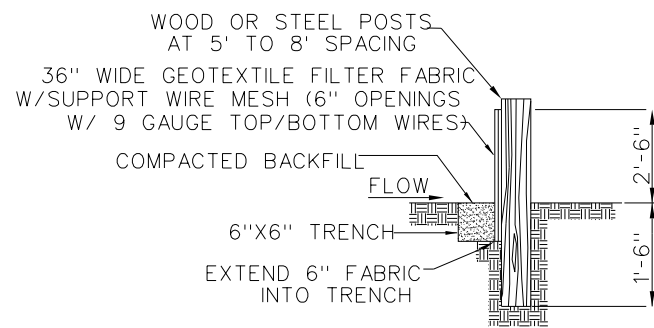


PERIMETER EROSION BARRIER

FILTER FABRIC FENCE
OVERLAND FLOW APPLICATION



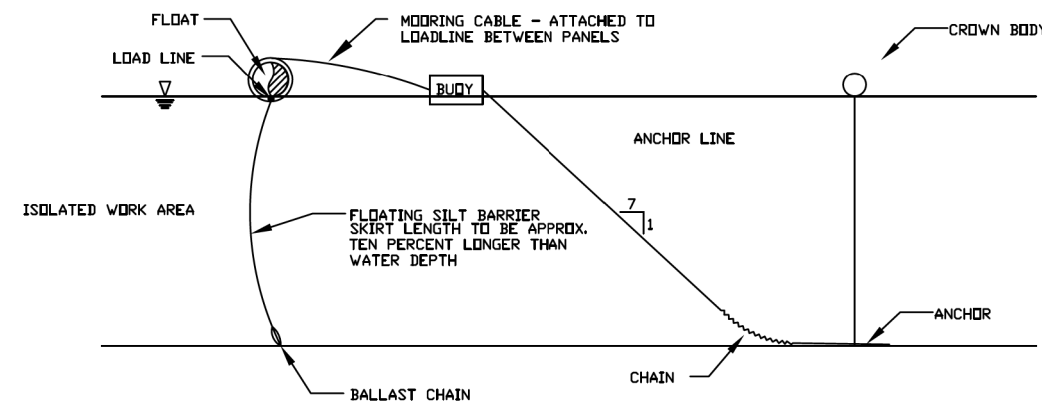
ELEVATION



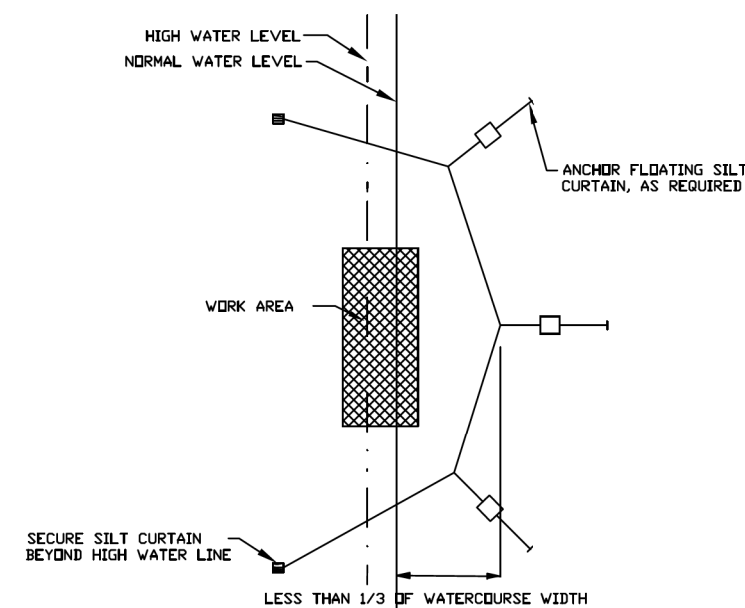
SECTION

- SUPPORT WIRE MESH MAY BE OMITTED IF A MAXIMUM POST SPACING OF 5 FEET IS PROVIDED.
- SEDIMENT TRAPPED BY THE FENCE SHALL BE REMOVED (AND PROPERLY DISPOSED OF) WHENEVER SIGNIFICANT ACCUMULATION OCCURS.
- BARRIERS SHALL BE MAINTAINED IN PLACE UNTIL THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED AND UNTIL THE OWNER AUTHORIZES REMOVAL.

FLOATING SILT CURTAIN - TYPICAL LAYOUT



TYPICAL COMPONENTS / ANCHORAGE SYSTEM



TYPICAL PLAN VIEW

Maximum flow for waterbody shall be less than 5fps.
Isolated work area shall not exceed more than 1/3 stream width.
Silt curtain shall be placed parallel to stream flow.

REFERENCE	
Project	_____
Designed	_____ Date _____
Checked	_____ Date _____
Approved	_____ Date _____

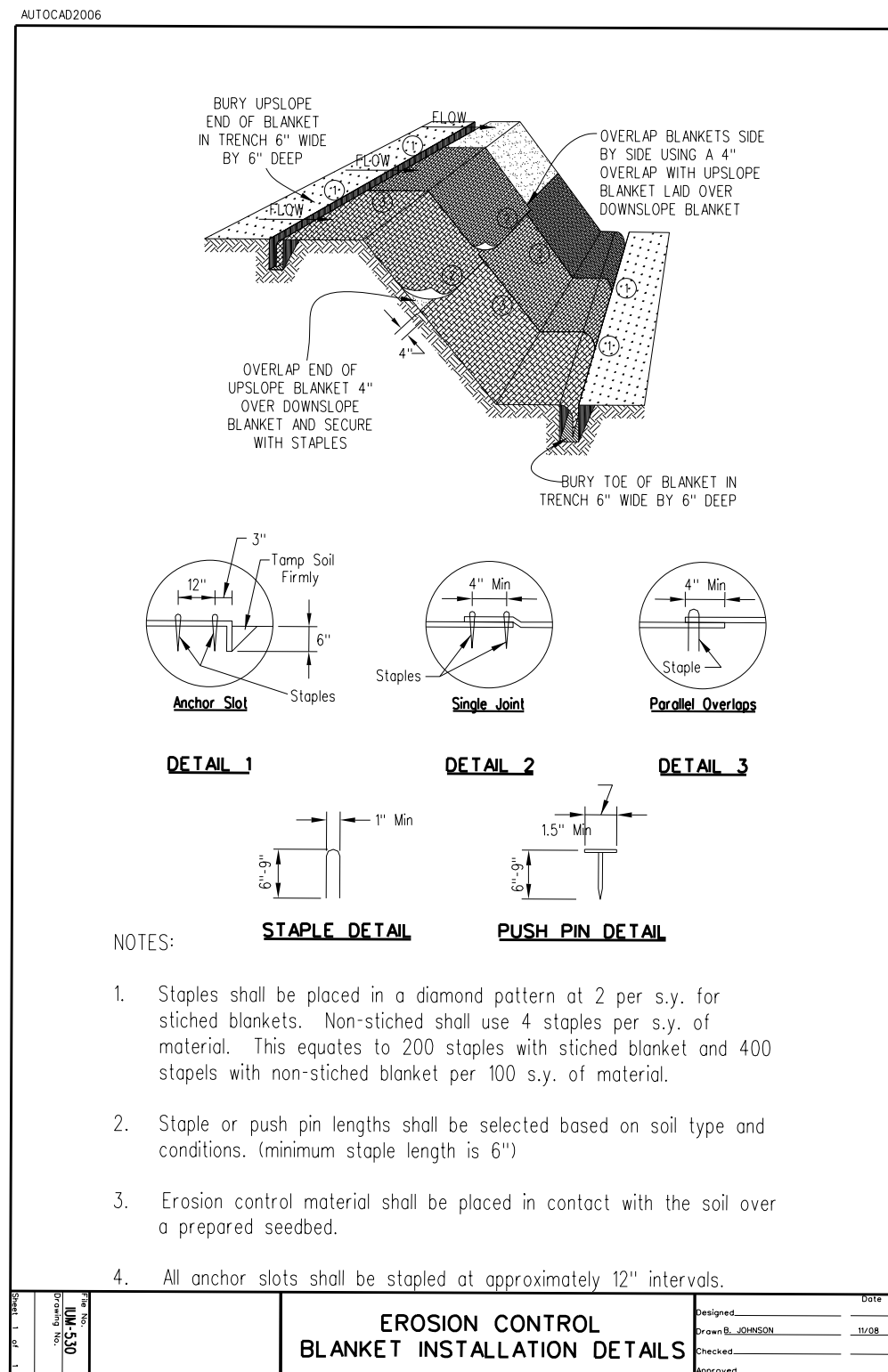
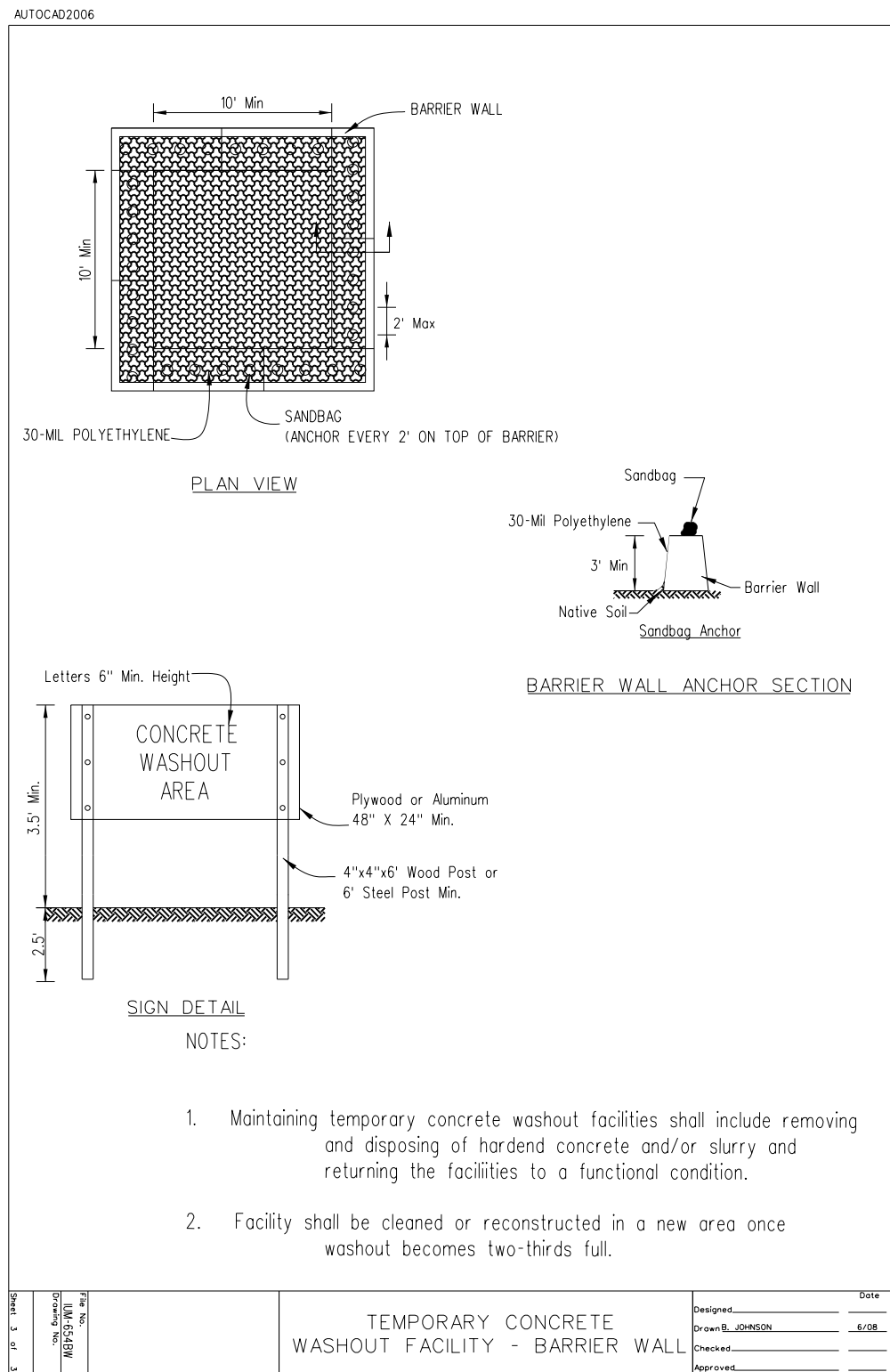


STANDARD DWG. NO.	IUM-617A
SHEET	1 OF 1
DATE	1-06-2012

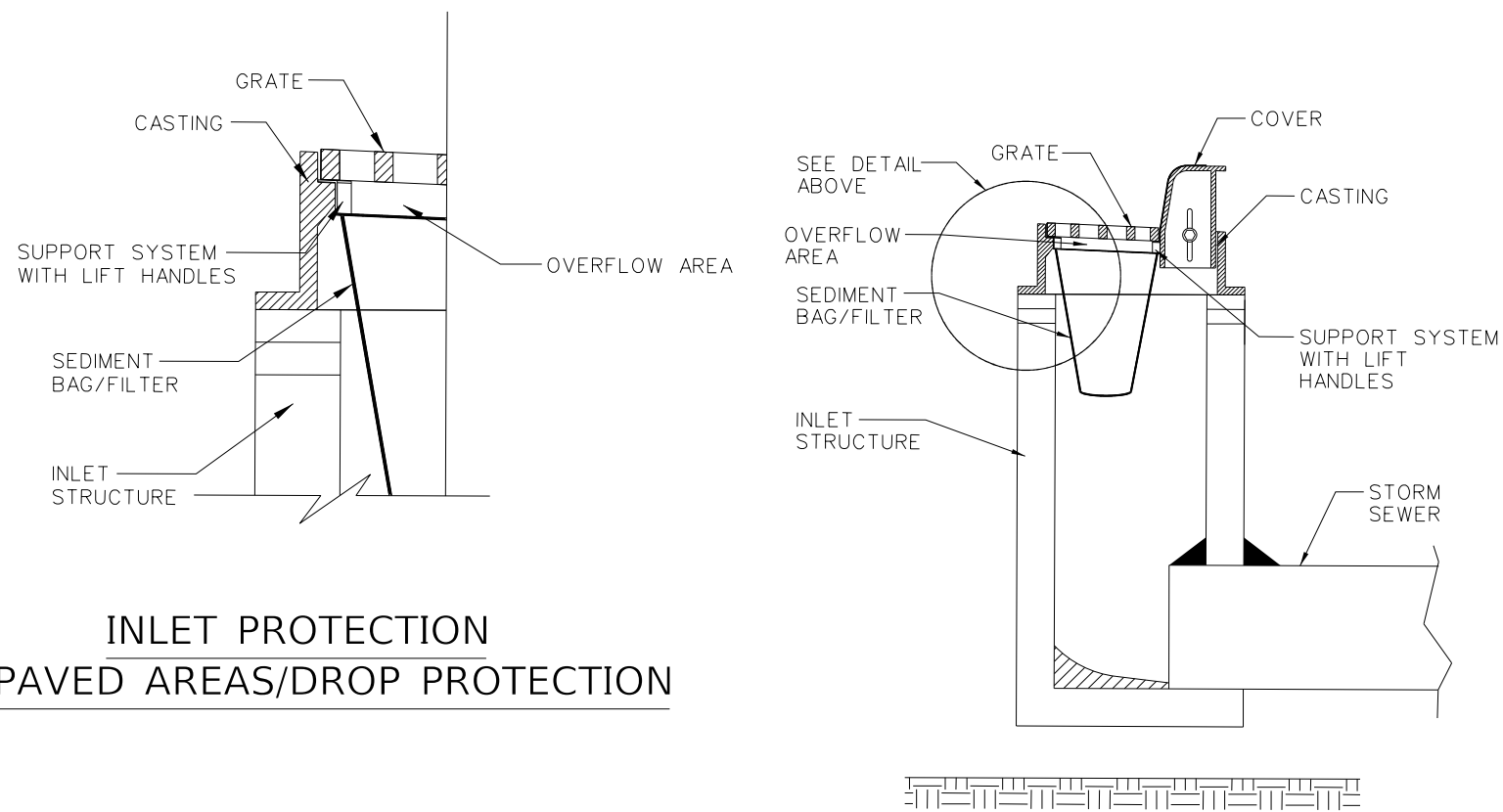
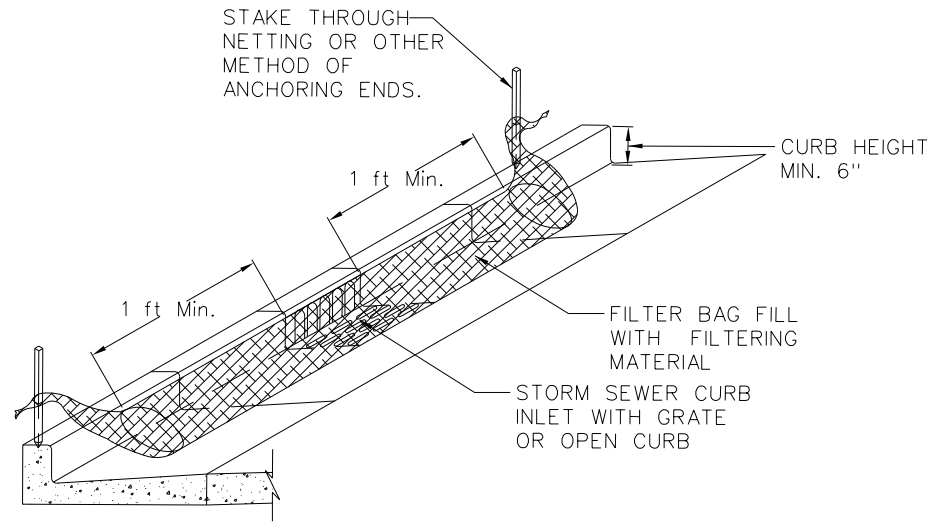
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO.			61G22	
ILLINOIS FED. AID PROJECT				

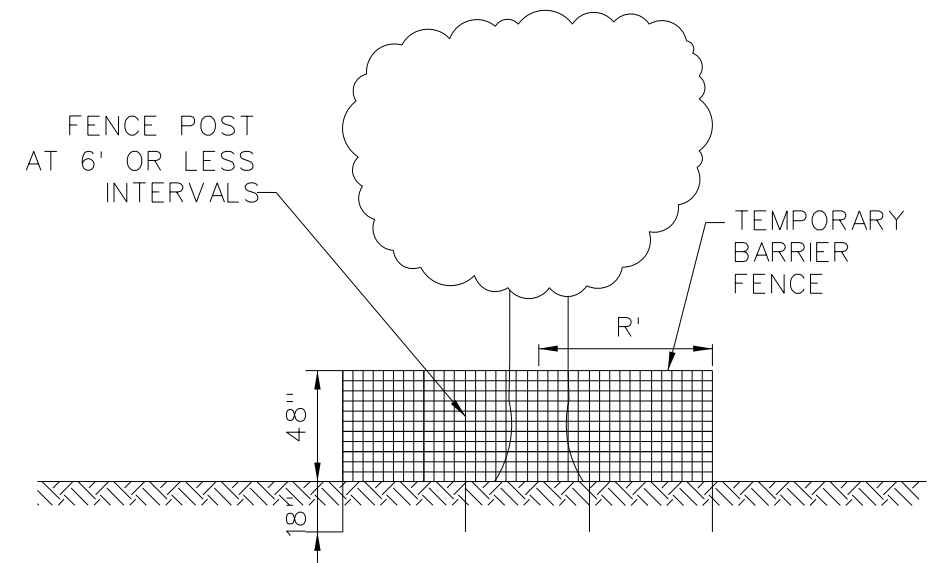


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**INLET PROTECTION
PAVED AREAS/DROP PROTECTION**

TREE TRUNK PROTECTION



- FENCE LOCATION RADIUS TO BE 1 FOOT FOR EACH 1-INCH DIAMETER OF TREE CALIPER, AS MEASURED 4 FEET ABOVE GROUND (MIN. 8 FOOT RADIUS).
- BARRIER FENCE TO BE 48-INCH-HIGH SNOW FENCE WITH WOOD OR METAL POSTS AT 6 FEET OR LESS INTERVALS AND ANCHORED AT LEAST 18 INCHES INTO GROUND.

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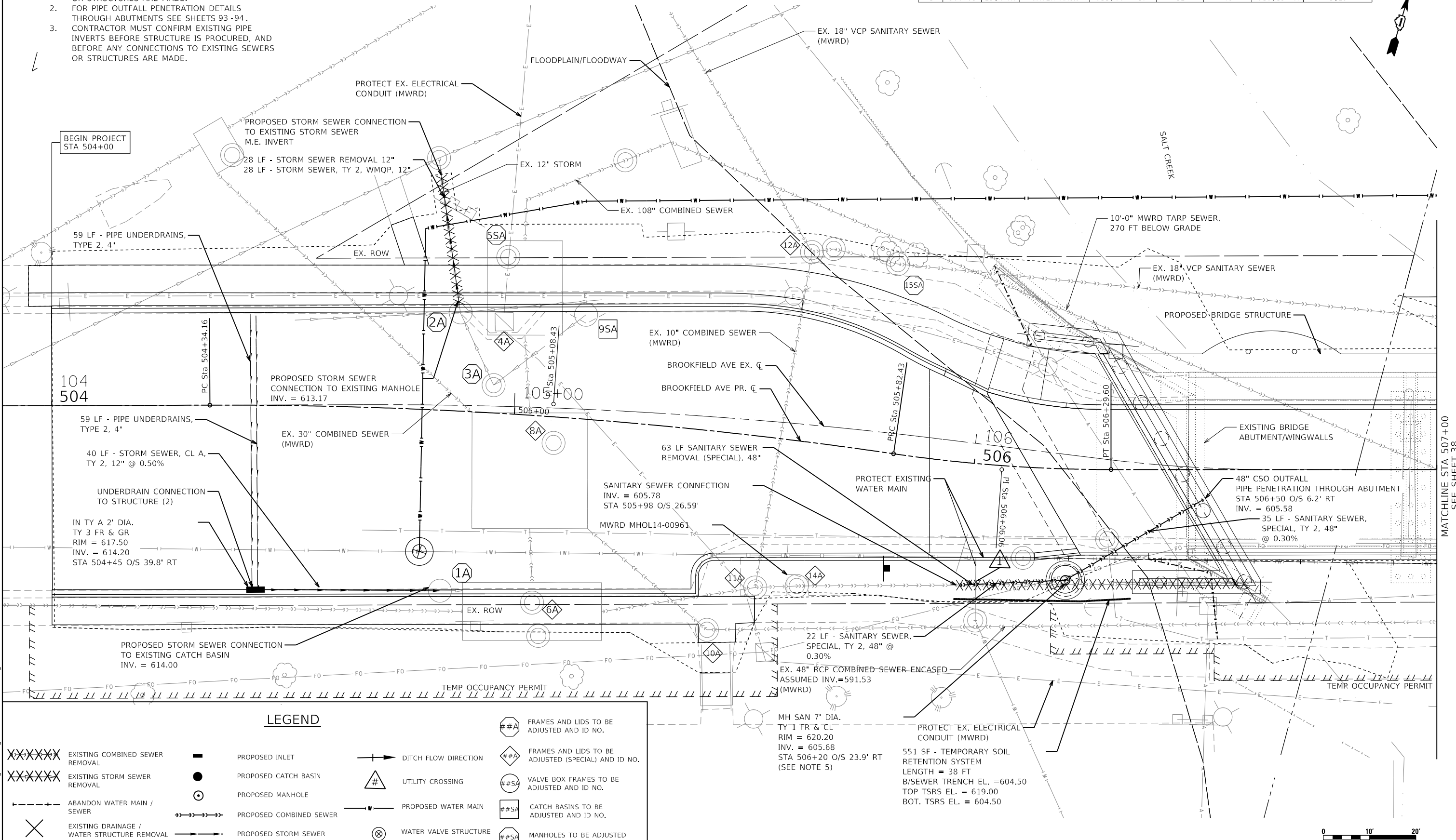
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	36
CONTRACT NO.			61G22	
ILLINOIS FED. AID PROJECT				

NOTES

- CONTRACTOR MUST CONFIRM EXISTING PIPE INVERTS BEFORE STRUCTURE IS PROCURED, AND BEFORE ANY CONNECTIONS TO EXISTING SEWERS OR STRUCTURES ARE MADE.
- FOR PIPE OUTFALL PENETRATION DETAILS THROUGH ABUTMENTS SEE SHEETS 93-94.
- CONTRACTOR MUST CONFIRM EXISTING PIPE INVERTS BEFORE STRUCTURE IS PROCURED, AND BEFORE ANY CONNECTIONS TO EXISTING SEWERS OR STRUCTURES ARE MADE.
- REFER TO REMOVAL AND PROPOSED WATER MAIN PLAN FOR WATER MAIN REMOVALS AND IMPROVEMENTS.
- SEE "TYPICAL SANITARY MANHOLE 'A' AND 'B'" DETAIL ON SHEET 50.

SEWER CROSSING TABLE								
ID	STATION	OFFSET	UTILITY	ASSUMED TP/BP	SIZE (IN.)	SIZE (IN.)	TP/BP	CLEARANCE (FT.)
1	506+03	25.4 RT	WATER MAIN	611.44 BP	12	48	610.15 TP	1.29



LEGEND

- | | | | | | | | |
|--------|---|---|-------------------------|---|-----------------------|------|---|
| XXXXXX | EXISTING COMBINED SEWER REMOVAL | — | PROPOSED INLET | → | DITCH FLOW DIRECTION | ##A | FRAMES AND LIDS TO BE ADJUSTED AND ID NO. |
| XXXXXX | EXISTING STORM SEWER REMOVAL | ● | PROPOSED CATCH BASIN | △ | UTILITY CROSSING | ##B | FRAMES AND LIDS TO BE ADJUSTED (SPECIAL) AND ID NO. |
| --- | ABANDON WATER MAIN / SEWER | ○ | PROPOSED MANHOLE | — | PROPOSED WATER MAIN | ##SA | VALVE BOX FRAMES TO BE ADJUSTED AND ID NO. |
| × | EXISTING DRAINAGE / WATER STRUCTURE REMOVAL | → | PROPOSED COMBINED SEWER | — | PROPOSED STORM SEWER | ##SA | CATCH BASINS TO BE ADJUSTED AND ID NO. |
| | | → | PROPOSED STORM SEWER | ⊗ | WATER VALVE STRUCTURE | ##SA | MANHOLES TO BE ADJUSTED (SPECIAL) AND ID NO. |

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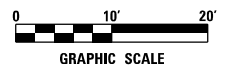
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BROOKFIELD AVE OVER SALT CREEK
REMOVAL AND PROPOSED DRAINAGE PLAN**

SCALE: 1" = 10' SHEET 1 OF 2 SHEETS STA. 504+00 TO STA. 507+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	37
CONTRACT NO.			61G22	
ILLINOIS FED. AID PROJECT				



MATCHLINE STA 507+00
SEE SHEET 38

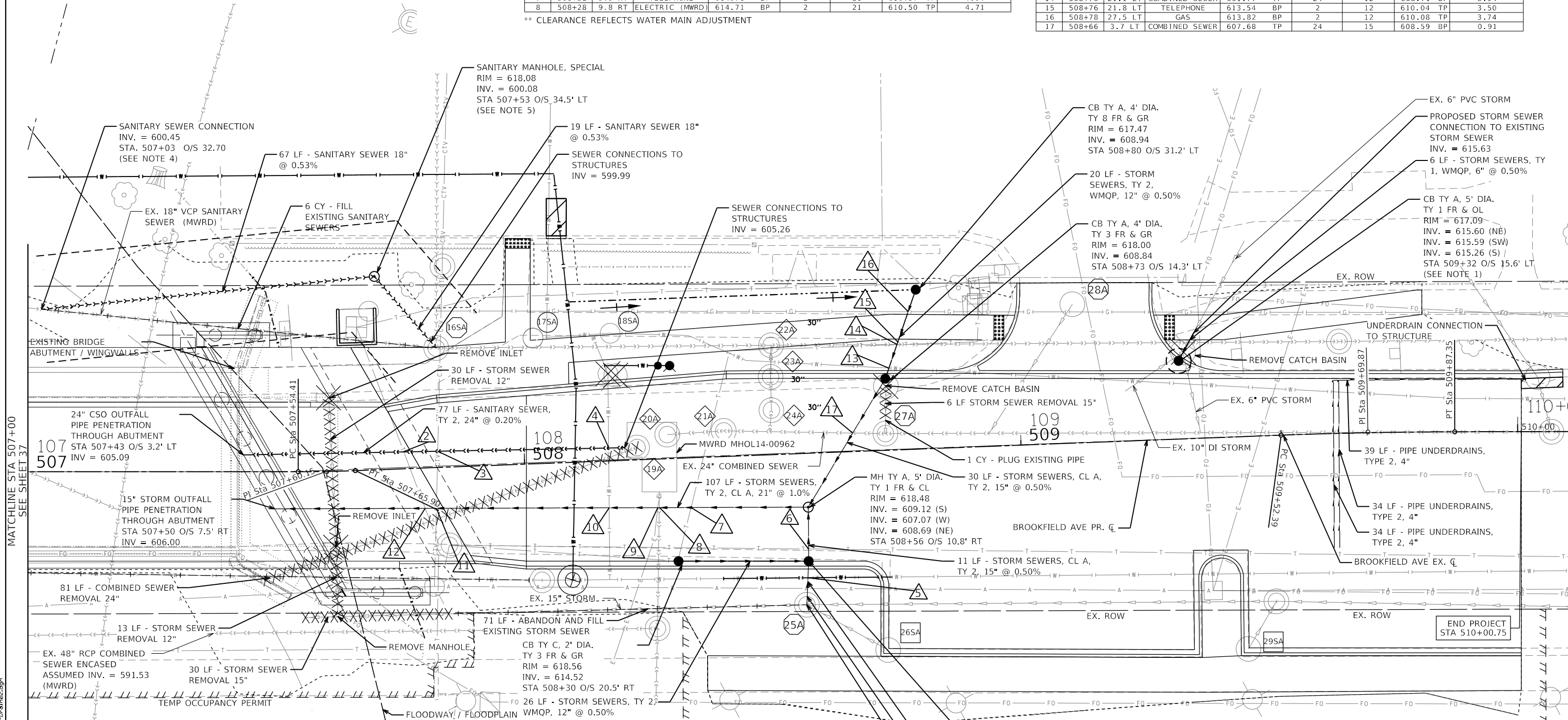
NOTES

- CONTRACTOR MUST CONFIRM EXISTING PIPE INVERTS BEFORE STRUCTURE IS PROCURED, AND BEFORE ANY CONNECTIONS TO EXISTING SEWERS OR STRUCTURES ARE MADE.
- FOR PIPE OUTFALL PENETRATION DETAILS THROUGH ABUTMENTS SEE SHEETS 93-94.
- REFER TO REMOVAL AND PROPOSED WATER MAIN PLAN FOR WATER MAIN REMOVALS AND IMPROVEMENTS.
- CONNECTION SHALL INCLUDE AN 11.25° FITTING TO ACHIEVE PLAN ALIGNMENT.
- SEE DETAIL ON SHEET 52.

SEWER CROSSING TABLE										
ID	STATION	OFFSET	EXISTING CROSSING UTILITY			PROPOSED SEWER				
			UTILITY	ASSUMED TP/BP	SIZE (IN.)	SIZE (IN.)	TP/BP	CLEARANCE (FT.)		
2	507+76	3.3 LT	TELEPHONE	614.70	BP	2	24	607.40	TP	7.30
3	507+83	3.2 LT	CABLE	614.96	BP	2	24	607.42	TP	7.55
4	508+17	2.6 LT	WATER MAIN	611.37	BP	12	24	607.49	TP	3.88
4+5	508+56	25.1 RT	WATER MAIN	607.50	TP	16	15	609.02	BP	1.52
6	508.57	19.5 RT	TELEPHONE	614.35	BP	2	15	610.57	TP	3.78
7	508+32	9.9 RT	TELEPHONE	614.71	BP	2	21	610.57	TP	4.64
8	508+28	9.8 RT	ELECTRIC (MWRD)	614.71	BP	2	21	610.50	TP	4.71

** CLEARANCE REFLECTS WATER MAIN ADJUSTMENT

SEWER CROSSING TABLE										
ID	STATION	OFFSET	EXISTING CROSSING UTILITY			PROPOSED SEWER				
			UTILITY	ASSUMED TP/BP	SIZE (IN.)	SIZE (IN.)	TP/BP	CLEARANCE (FT.)		
9	508+27	12.7 RT	COMBINED SEWER	596.11	TP	48	21	608.34	BP	12.23
10	508+17	9.3 RT	WATER MAIN	611.40	BP	12	21	610.27	TP	1.63
11	507+87	8.0 RT	CABLE	614.58	BP	2	21	609.57	TP	5.52
12	507+87	7.9 RT	TELEPHONE	614.58	BP	2	21	609.56	TP	5.52
13	508+74	16.6 LT	WATER MAIN	610.77	BP	12	12	610.02	TP	0.75
14	508+76	21.1 LT	COMBINED SEWER	601.77	TP	24	12	608.71	BP	6.94
15	508+76	21.8 LT	TELEPHONE	613.54	BP	2	12	610.04	TP	3.50
16	508+78	27.5 LT	GAS	613.82	BP	2	12	610.08	TP	3.74
17	508+66	3.7 LT	COMBINED SEWER	607.68	TP	24	15	608.59	BP	0.91



LEGEND

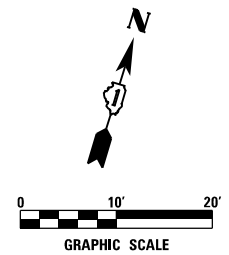
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- XXXXXX EXISTING STORM SEWER REMOVAL
- ABANDON WATER MAIN / SEWER
- X EXISTING DRAINAGE / WATER STRUCTURE REMOVAL
- PROPOSED INLET
- PROPOSED CATCH BASIN
- PROPOSED MANHOLE
- PROPOSED COMBINED SEWER
- PROPOSED STORM SEWER
- DITCH FLOW DIRECTION
- △ UTILITY CROSSING
- PROPOSED WATER MAIN
- ⊗ WATER VALVE STRUCTURE
- ##A FRAMES AND LIDS TO BE ADJUSTED AND ID NO.
- ##B FRAMES AND LIDS TO BE ADJUSTED (SPECIAL) AND ID NO.
- ##SA VALVE BOX FRAMES TO BE ADJUSTED AND ID NO.
- ##SB CATCH BASINS TO BE ADJUSTED AND ID NO.
- ##SC MANHOLES TO BE ADJUSTED (SPECIAL) AND ID NO.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BROOKFIELD AVE OVER SALT CREEK
REMOVAL AND PROPOSED DRAINAGE PLAN

SCALE: 1" = 10' SHEET 2 OF 2 SHEETS STA. 507+00 TO STA. 510+01

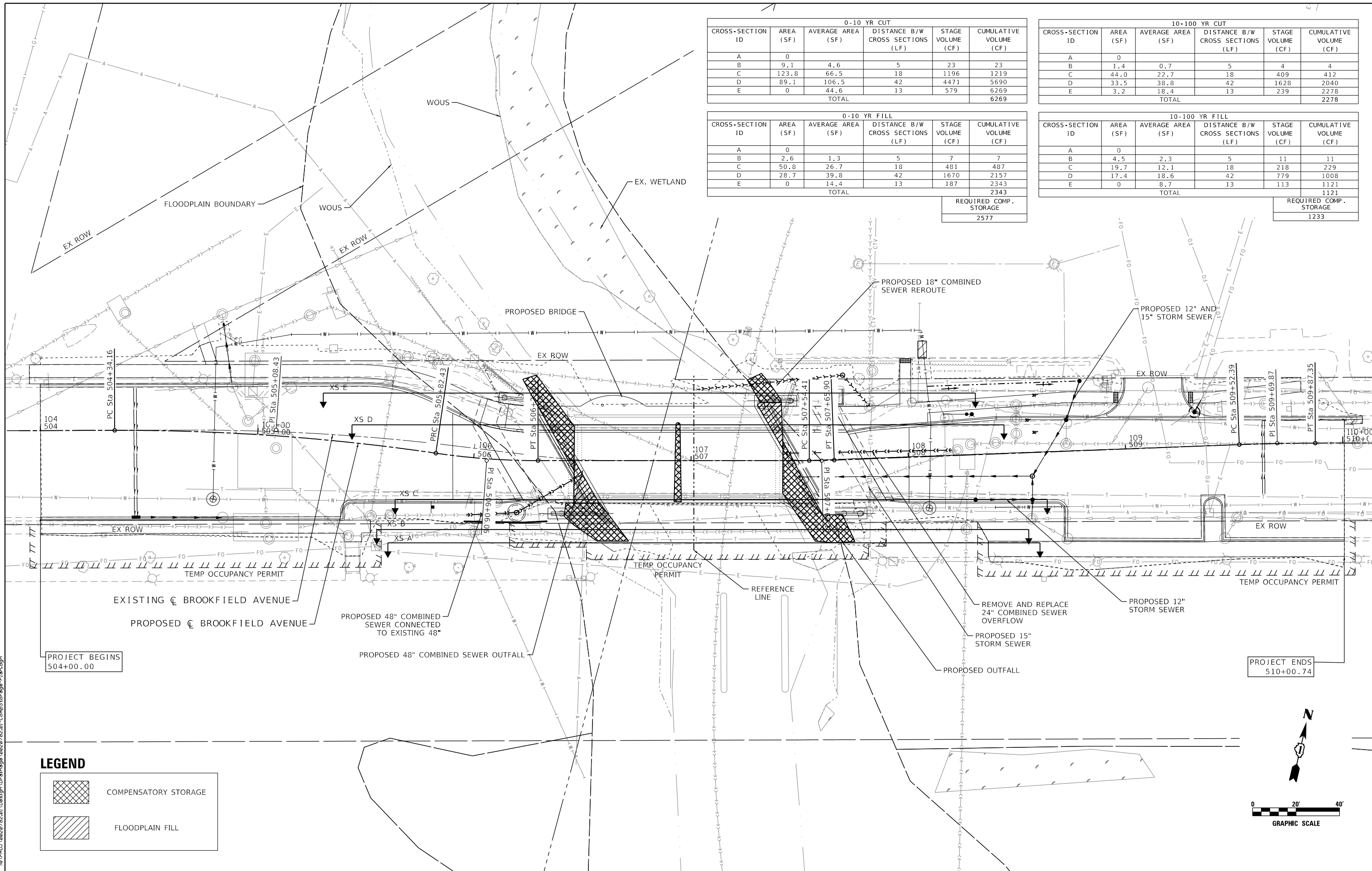
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1408	15-00129-00-BR	COOK	114	38
CONTRACT NO.			61G22	
ILLINOIS FED. AID PROJECT				



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CiorbaGroup
8725 W. Higgins Rd, Ste 600, Chicago, IL 60631
P 773.775.4009 | www.ciorba.com

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0-10 YR CUT					
CROSS-SECTION ID	AREA (SF)	AVERAGE AREA (SF)	DISTANCE B/W CROSS SECTIONS (LF)	STAGE VOLUME (CF)	CUMULATIVE VOLUME (CF)
A	0				
B	9.1	4.6	5	23	23
C	123.8	66.5	18	1196	1219
D	89.1	106.5	42	4471	5690
E	0	44.6	13	579	6269
TOTAL					

10-100 YR CUT					
CROSS-SECTION ID	AREA (SF)	AVERAGE AREA (SF)	DISTANCE B/W CROSS SECTIONS (LF)	STAGE VOLUME (CF)	CUMULATIVE VOLUME (CF)
A	0				
B	1.4	0.7	5	4	4
C	44.0	22.7	18	409	412
D	33.5	38.8	42	1628	2040
E	3.2	18.4	13	239	2278
TOTAL					

0-10 YR FILL					
CROSS-SECTION ID	AREA (SF)	AVERAGE AREA (SF)	DISTANCE B/W CROSS SECTIONS (LF)	STAGE VOLUME (CF)	CUMULATIVE VOLUME (CF)
A	0				
B	2.6	1.3	5	7	7
C	50.8	26.7	18	481	487
D	28.7	39.8	42	1670	2157
E	0	14.4	13	187	2343
TOTAL					

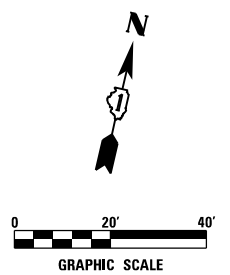
10-100 YR FILL					
CROSS-SECTION ID	AREA (SF)	AVERAGE AREA (SF)	DISTANCE B/W CROSS SECTIONS (LF)	STAGE VOLUME (CF)	CUMULATIVE VOLUME (CF)
A	0				
B	4.5	2.3	5	11	11
C	19.7	12.1	18	218	229
D	17.4	18.6	42	779	1008
E	0	8.7	13	113	1121
TOTAL					

REQUIRED COMP. STORAGE
2577

REQUIRED COMP. STORAGE
1233

LEGEND

	COMPENSATORY STORAGE
	FLOODPLAIN FILL



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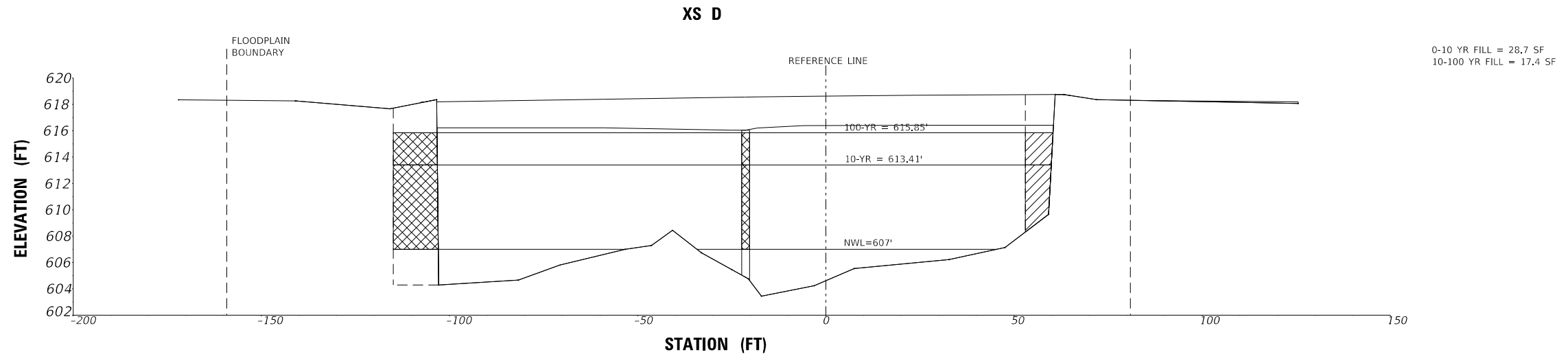
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

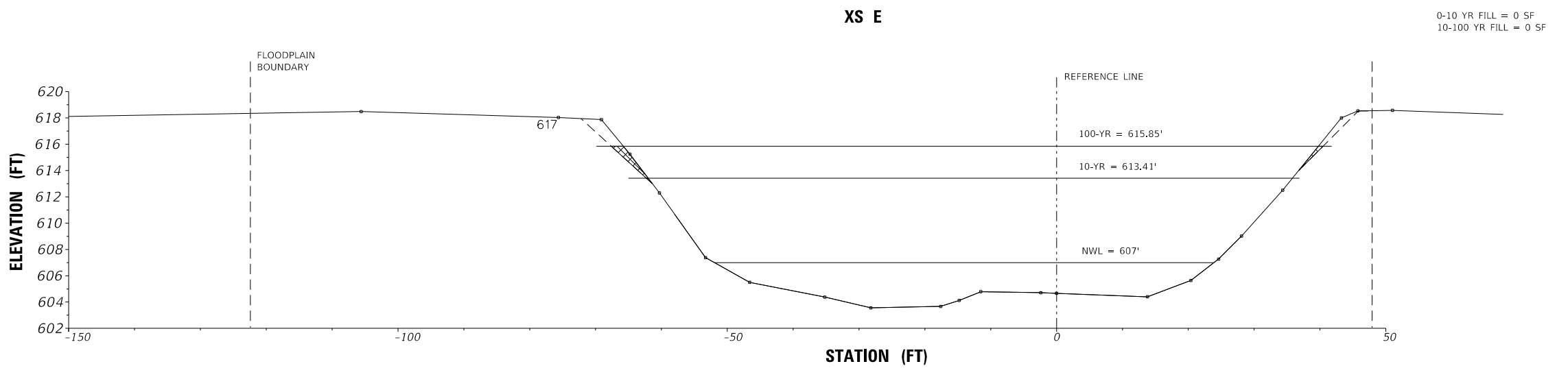
**BROOKFIELD AVE OVER SALT CREEK
COMPENSATORY STORAGE PLAN**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	39
CONTRACT NO.			61G22	
ILLINOIS FED. AID PROJECT				



 CUT AREA
 FILL AREA



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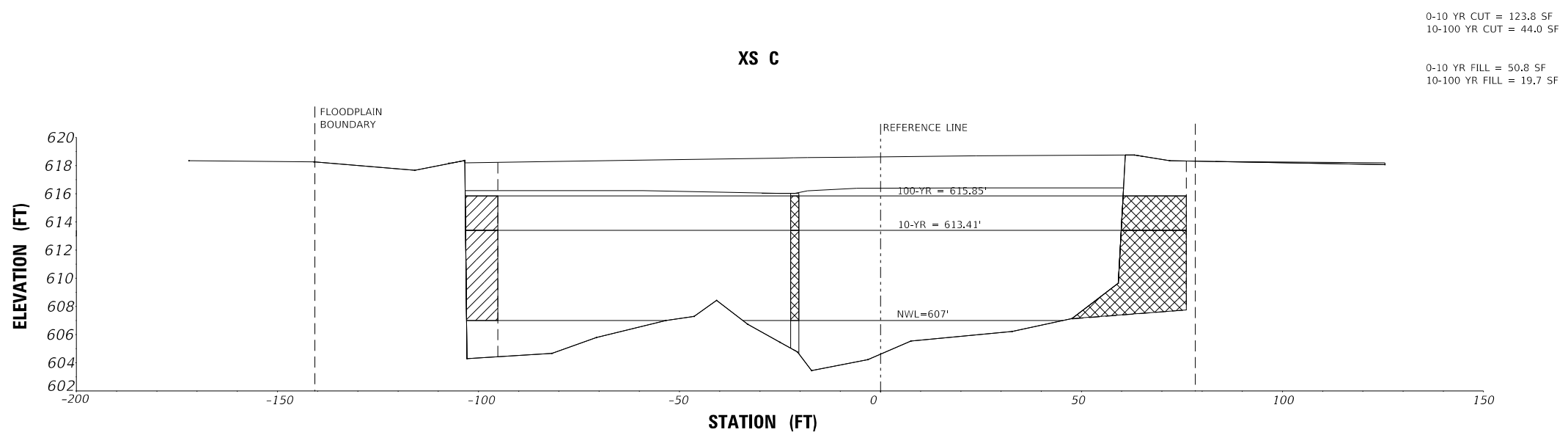
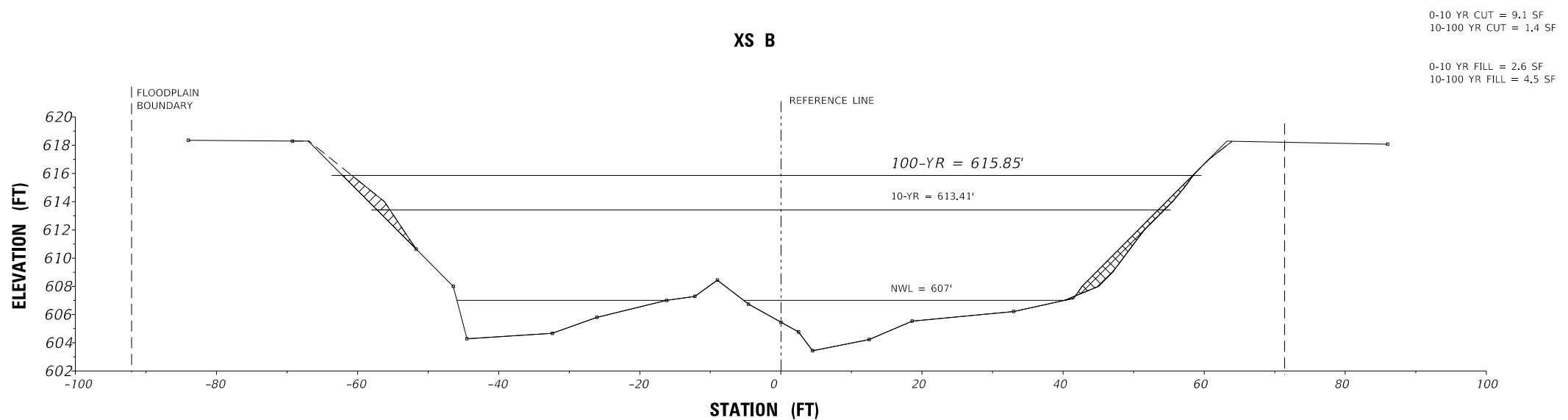
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PLOT DATE = 11/2/2020	DATE - 10/5/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BROOKFIELD AVE OVER SALT CREEK
COMPENSATORY STORAGE CROSS SECTIONS

SCALE: N.T.S. SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	40
CONTRACT NO.				61G22
ILLINOIS FED. AID PROJECT				



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	DRAWN - DDS	REVISED -
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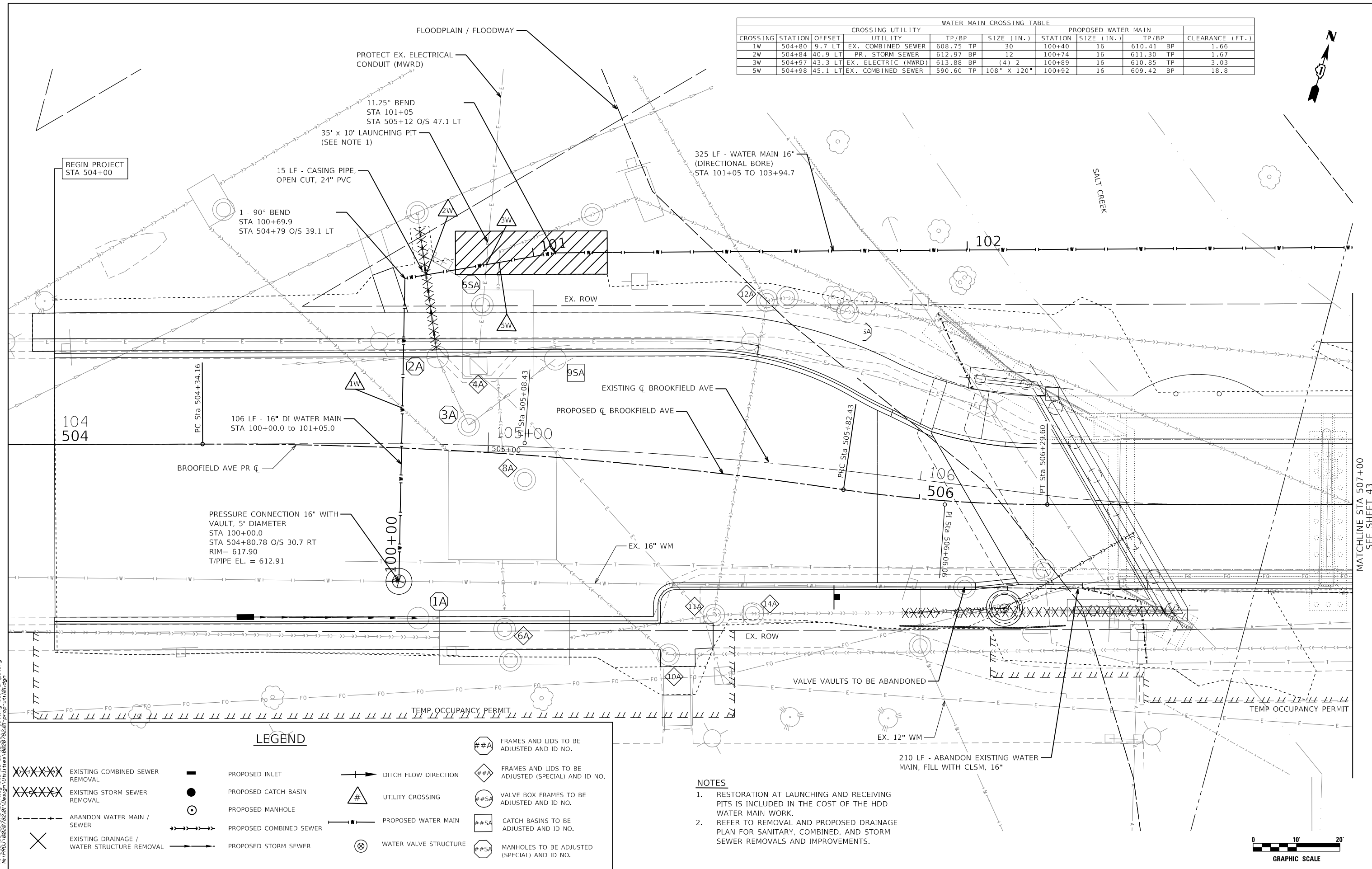
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BROOKFIELD AVE OVER SALT CREEK
COMPENSATORY STORAGE CROSS SECTIONS

SCALE: N.T.S. SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO.			61G22	
ILLINOIS FED. AID PROJECT				

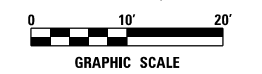
WATER MAIN CROSSING TABLE											
CROSSING	STATION	OFFSET	CROSSING UTILITY			PROPOSED WATER MAIN					
			UTILITY	TP/BP	SIZE (IN.)	STATION	SIZE (IN.)	TP/BP	CLEARANCE (FT.)		
1W	504+80	9.7 LT	EX. COMBINED SEWER	608.75 TP	30	100+40	16	610.41 BP	1.66		
2W	504+84	40.9 LT	PR. STORM SEWER	612.97 BP	12	100+74	16	611.30 TP	1.67		
3W	504+97	43.3 LT	EX. ELECTRIC (MWRD)	613.88 BP	(4) 2	100+89	16	610.85 TP	3.03		
5W	504+98	45.1 LT	EX. COMBINED SEWER	590.60 TP	108" X 120"	100+92	16	609.42 BP	18.8		



LEGEND

XXXXXX	EXISTING COMBINED SEWER REMOVAL	—	PROPOSED INLET	→	DITCH FLOW DIRECTION	#A	FRAMES AND LIDS TO BE ADJUSTED AND ID NO.
XXXXXX	EXISTING STORM SEWER REMOVAL	●	PROPOSED CATCH BASIN	△	UTILITY CROSSING	#A	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL) AND ID NO.
---	ABANDON WATER MAIN / SEWER	○	PROPOSED MANHOLE	— —	PROPOSED WATER MAIN	#SA	VALVE BOX FRAMES TO BE ADJUSTED AND ID NO.
×	EXISTING DRAINAGE / WATER STRUCTURE REMOVAL	→	PROPOSED COMBINED SEWER	— —	PROPOSED STORM SEWER	#SA	CATCH BASINS TO BE ADJUSTED AND ID NO.
		→	PROPOSED STORM SEWER	⊗	WATER VALVE STRUCTURE	#SA	MANHOLES TO BE ADJUSTED (SPECIAL) AND ID NO.

- NOTES**
- RESTORATION AT LAUNCHING AND RECEIVING PITS IS INCLUDED IN THE COST OF THE HDD WATER MAIN WORK.
 - REFER TO REMOVAL AND PROPOSED DRAINAGE PLAN FOR SANITARY, COMBINED, AND STORM SEWER REMOVALS AND IMPROVEMENTS.



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BROOKFIELD AVE OVER SALT CREEK
REMOVAL AND PROPOSED WATER MAIN PLAN**

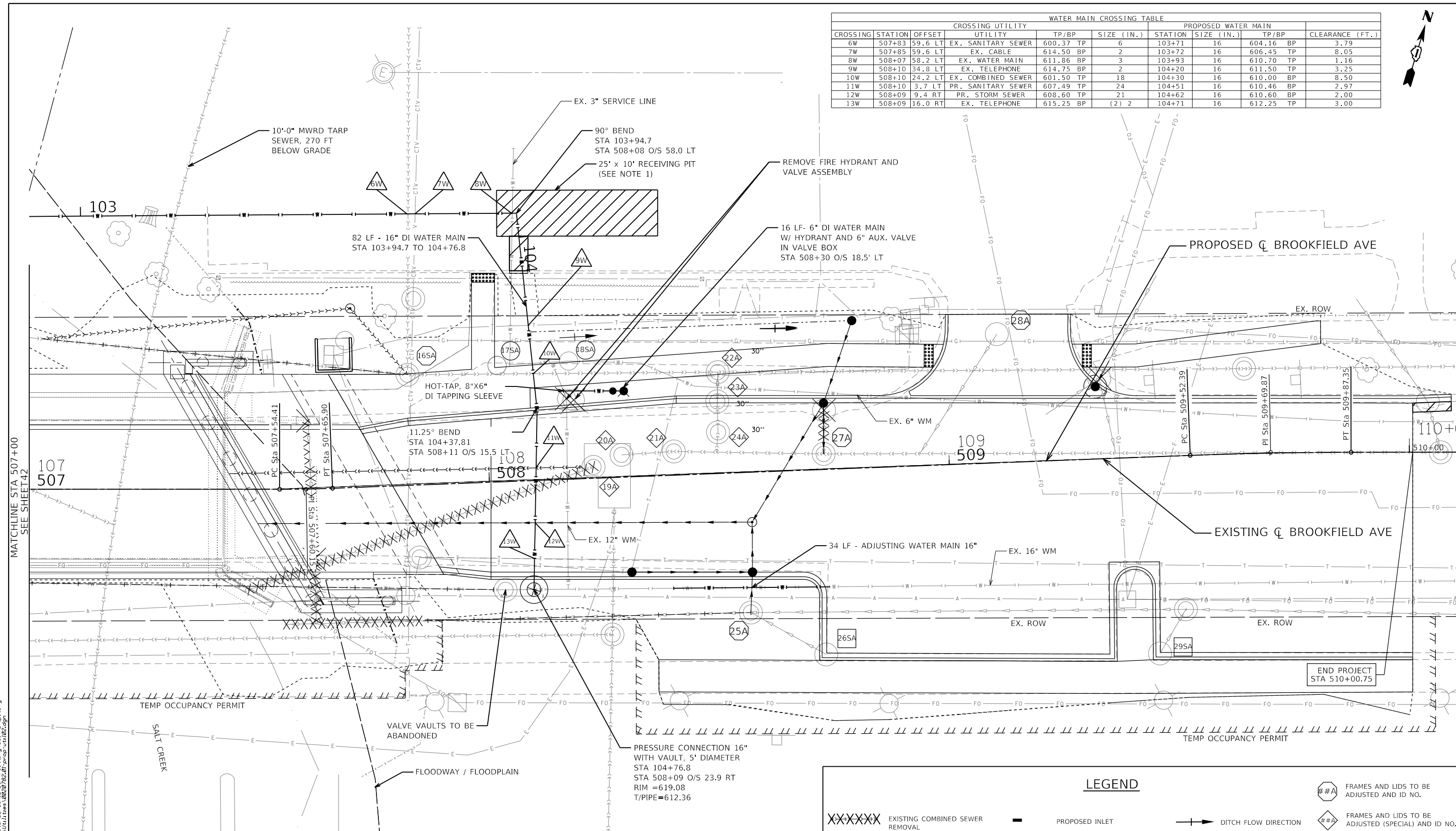
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	42
CONTRACT NO.			61G22	
ILLINOIS FED. AID PROJECT				

MATCHLINE STA 507+00
SEE SHEET 43



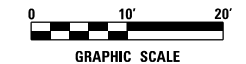
WATER MAIN CROSSING TABLE											
CROSSING	STATION	OFFSET	CROSSING UTILITY			PROPOSED WATER MAIN			CLEARANCE (FT.)		
			UTILITY	TP/BP	SIZE (IN.)	STATION	SIZE (IN.)	TP/BP			
6W	507+83	59.6 LT	EX. SANITARY SEWER	600.37 TP	6	103+71	16	604.16 BP	3.79		
7W	507+85	59.6 LT	EX. CABLE	614.50 BP	2	103+72	16	606.45 TP	8.05		
8W	508+07	58.2 LT	EX. WATER MAIN	611.86 BP	3	103+93	16	610.70 TP	1.16		
9W	508+10	34.8 LT	EX. TELEPHONE	614.75 BP	2	104+20	16	611.50 TP	3.25		
10W	508+10	24.2 LT	EX. COMBINED SEWER	601.50 TP	18	104+30	16	610.00 BP	8.50		
11W	508+10	3.7 LT	PR. SANITARY SEWER	607.49 TP	24	104+51	16	610.46 BP	2.97		
12W	508+09	9.4 RT	PR. STORM SEWER	608.60 TP	21	104+62	16	610.60 BP	2.00		
13W	508+09	16.0 RT	EX. TELEPHONE	615.25 BP	(2) 2	104+71	16	612.25 TP	3.00		



- NOTES**
- RESTORATION AT LAUNCHING AND RECEIVING PITS IS INCLUDED IN THE COST OF THE HDD WATER MAIN WORK.
 - REFER TO REMOVAL AND PROPOSED DRAINAGE PLAN FOR SANITARY, COMBINED, AND STORM SEWER REMOVALS AND IMPROVEMENTS.

LEGEND

XXXXXX	EXISTING COMBINED SEWER REMOVAL	—	PROPOSED INLET	→	DITCH FLOW DIRECTION	# # A	FRAMES AND LIDS TO BE ADJUSTED AND ID NO.
XXXXXX	EXISTING STORM SEWER REMOVAL	●	PROPOSED CATCH BASIN	△	UTILITY CROSSING	# # B	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL) AND ID NO.
---	ABANDON WATER MAIN / SEWER	○	PROPOSED MANHOLE	△	PROPOSED WATER MAIN	# # SA	VALVE BOX FRAMES TO BE ADJUSTED AND ID NO.
×	EXISTING DRAINAGE / WATER STRUCTURE REMOVAL	→	PROPOSED COMBINED SEWER	→	PROPOSED STORM SEWER	# # SA	CATCH BASINS TO BE ADJUSTED AND ID NO.
		⊗	WATER VALVE STRUCTURE			# # SA	MANHOLES TO BE ADJUSTED (SPECIAL) AND ID NO.



CiorbaGroup
 8725 W. Higgins Rd, Ste 600, Chicago, IL 60631
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	DATE - 10/5/2020	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BROOKFIELD AVE OVER SALT CREEK
 REMOVAL AND PROPOSED WATER MAIN PLAN**

SCALE: 1" = 10' SHEET 2 OF 2 SHEETS STA. 507+00 TO STA. 510+01

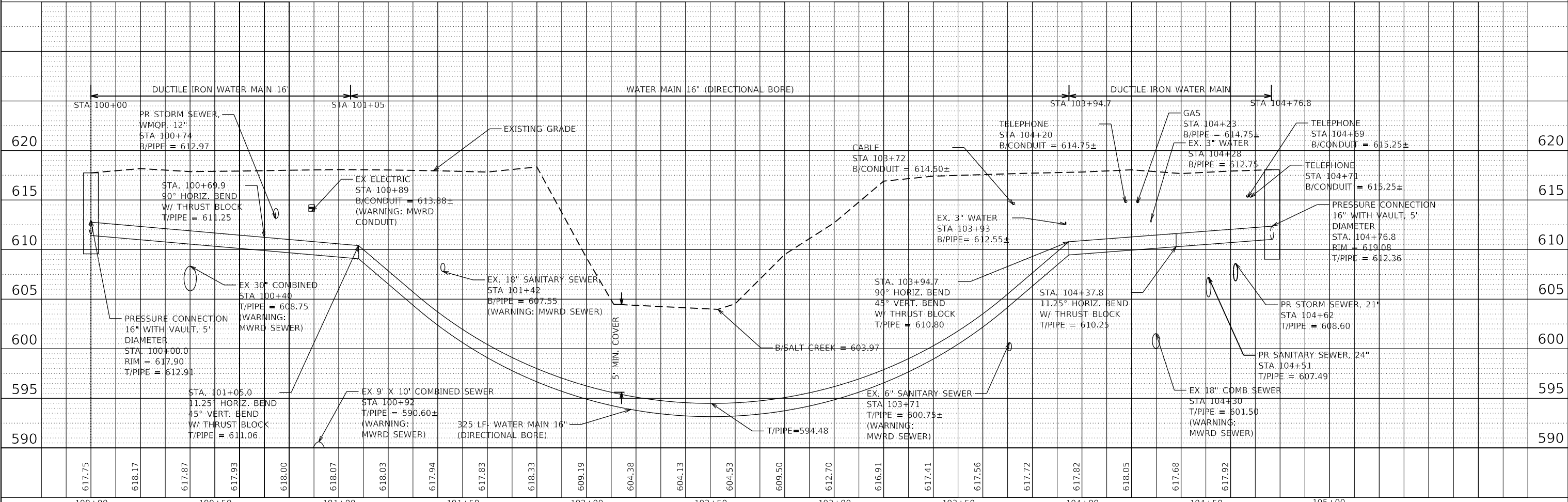
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CONTRACT NO. 61G22			ILLINOIS FED. AID PROJECT	

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PLAN	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	
	ALIGNMENT CHECKED	
	BY	
	FILE NAME	

PROFILE	SURVEYED	DATE
NOTE BOOK NO.	GRADES CHECKED	
	STRUCTURE NOTATIONS OK'D	
	BY	
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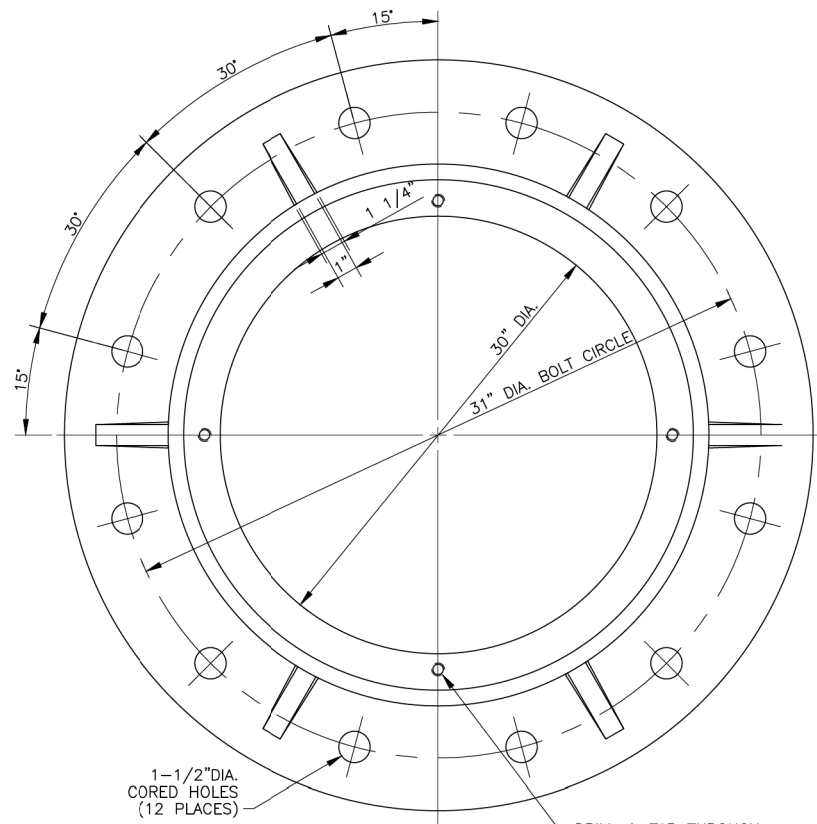
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

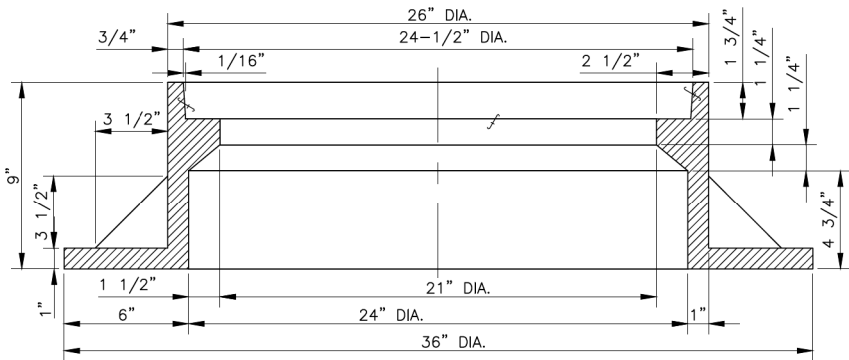
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PROPOSED WATER MAIN PROFILE**

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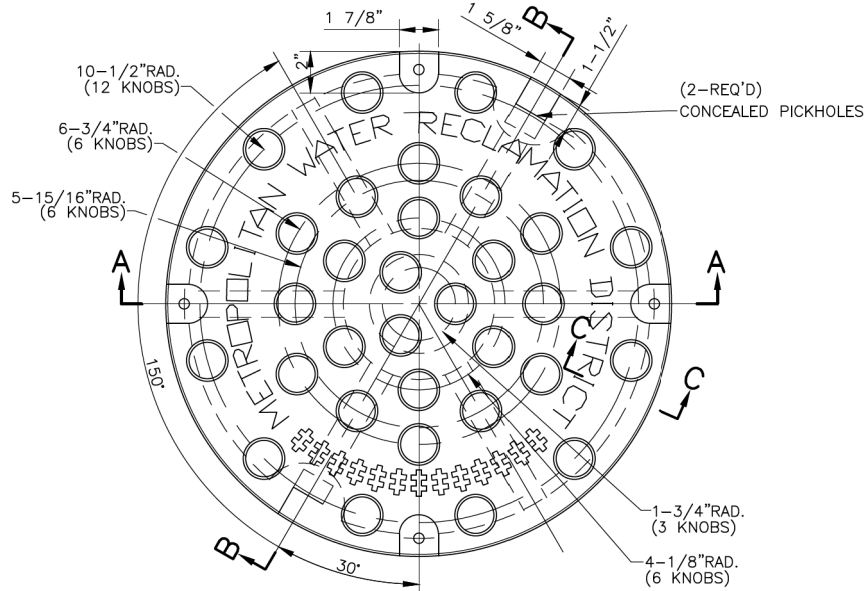
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CONTRACT NO.			61G22	
ILLINOIS FED. AID PROJECT				



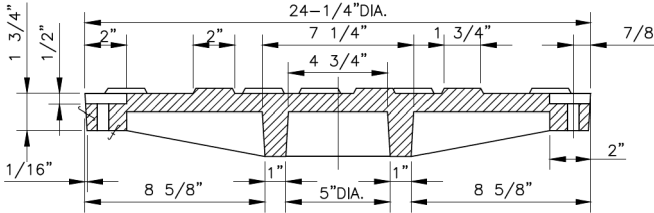
PLAN OF FRAME



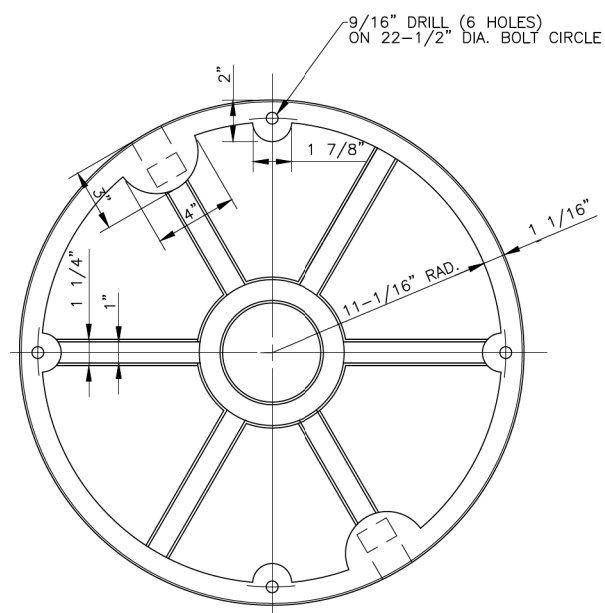
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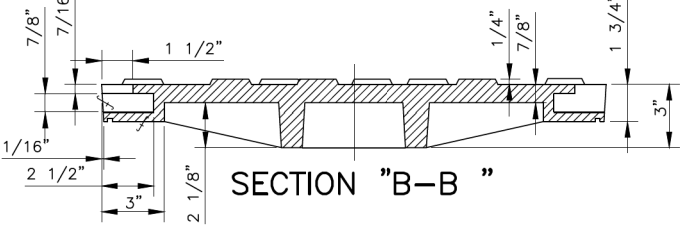
PLAN OF COVER



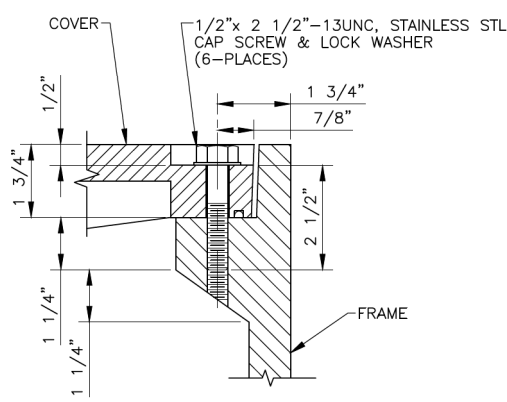
SECTION "A-A"



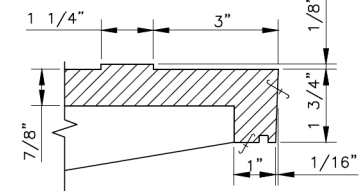
BOTTOM PLAN OF COVER



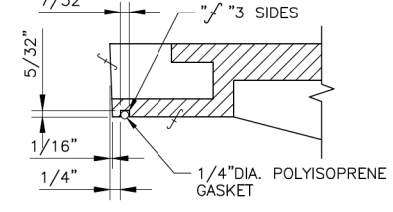
SECTION "B-B"



DETAIL OF BOLTED ASSEMBLY



SECTION "C-C"



DETAIL OF GASKET

NOTE:
THIS IS A LOCKING TYPE FRAME AND COVER, AND THE TOLERANCES AND MACHINED SURFACES CALLED FOR MUST BE FURNISHED OR THE FRAMES AND COVERS WILL BE REJECTED. SURFACES MARKED "F" SHALL BE TOOL FINISHED TO DIMEN. SHOWN.
MATERIAL: CAST GREY IRON, CLASS 30.

MWRD FRAMES AND LIDS

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

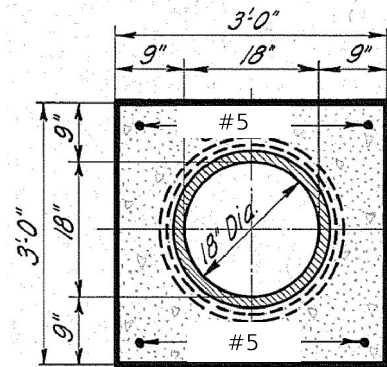
**BROOKFIELD AVE OVER SALT CREEK
WATER AND SEWER DETAILS**

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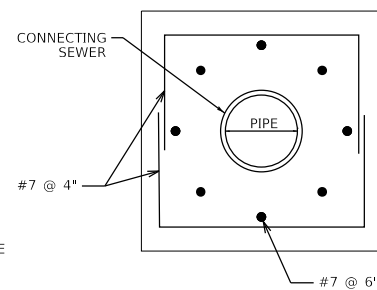
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CONTRACT NO.			61G22	
ILLINOIS FED. AID PROJECT				

NOTES:

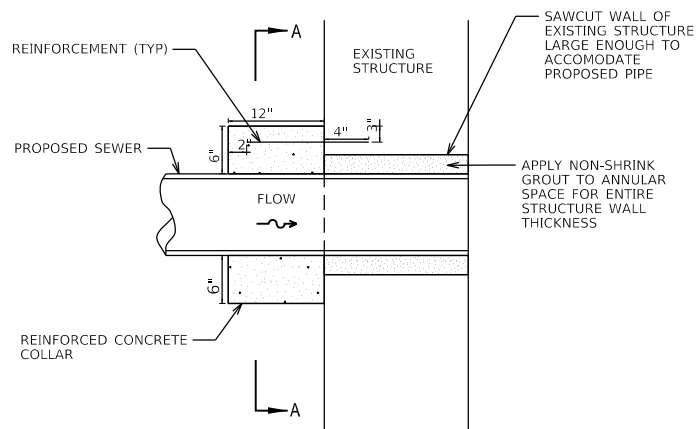
- REBAR SHALL HAVE $f_y = 60$ ksi AND BE NON COATED.
- AT SANITARY SEWER CONNECTIONS TO EXISTING PIPES, PROPOSED PIPE ENCASEMENT SHALL BE FLUSH WITH THE EXISTING ENCASEMENT AT THE PIPE CONNECTION POINT. REBAR WILL BE DRILLED 18" INTO THE EXISTING ENCASEMENT AND GROUTED WITH EPOXY. THE EXISTING CONCRETE COMING INTO CONTACT WITH THE NEW CONCRETE SHALL BE ROUGHENED, CLEANED, AND COATED WITH BONDING AGENT.
- NON-SHEAR COUPLINGS WITH STAINLESS STEEL BANDS SHALL BE USED TO CONNECT EXISTING AND NEW PIPE OF BOTH SIMILAR MATERIAL CONNECTIONS AND DISSIMILAR MATERIAL CONNECTIONS.
- IF EXISTING SEWER HAS A CURED-IN-PLACE PIPE LINER, ANY DAMAGE TO THE LINER SHALL BE REPAIRED WITH A HIGH MODULUS, HIGH STRENGTH, STRUCTURAL, EPOXY PASTE ADHESIVE. THIS ADHESIVE SHALL ALSO BE APPLIED IN AND AROUND THE JOINT OF THE NEW PIPE TO THE EXISTING LINED PIPE AND THE TWO PIPES SHALL BE CONNECTED WITH A NON-SHEAR COUPLING WITH A MINIMUM PRESSURE RATING OF 4.3 PSI. THE EPOXY PASTE ADHESIVE SHALL BE A 2-COMPONENT, 100% SOLIDS, SOLVENT-FREE, MOISTURE-TOLERANT, HIGH-MODULUS, HIGH STRENGTH, STRUCTURAL EPOXY PASTE ADHESIVE. IT CONFORMS TO THE CURRENT ASTM C-881, TYPES 1 AND IV, GRADE-3, CLASS-B/C AND AASHTO M-235 SPECIFICATIONS.
- CONCRETE SHALL BE CLASS SI.



PIPE ENCASEMENT



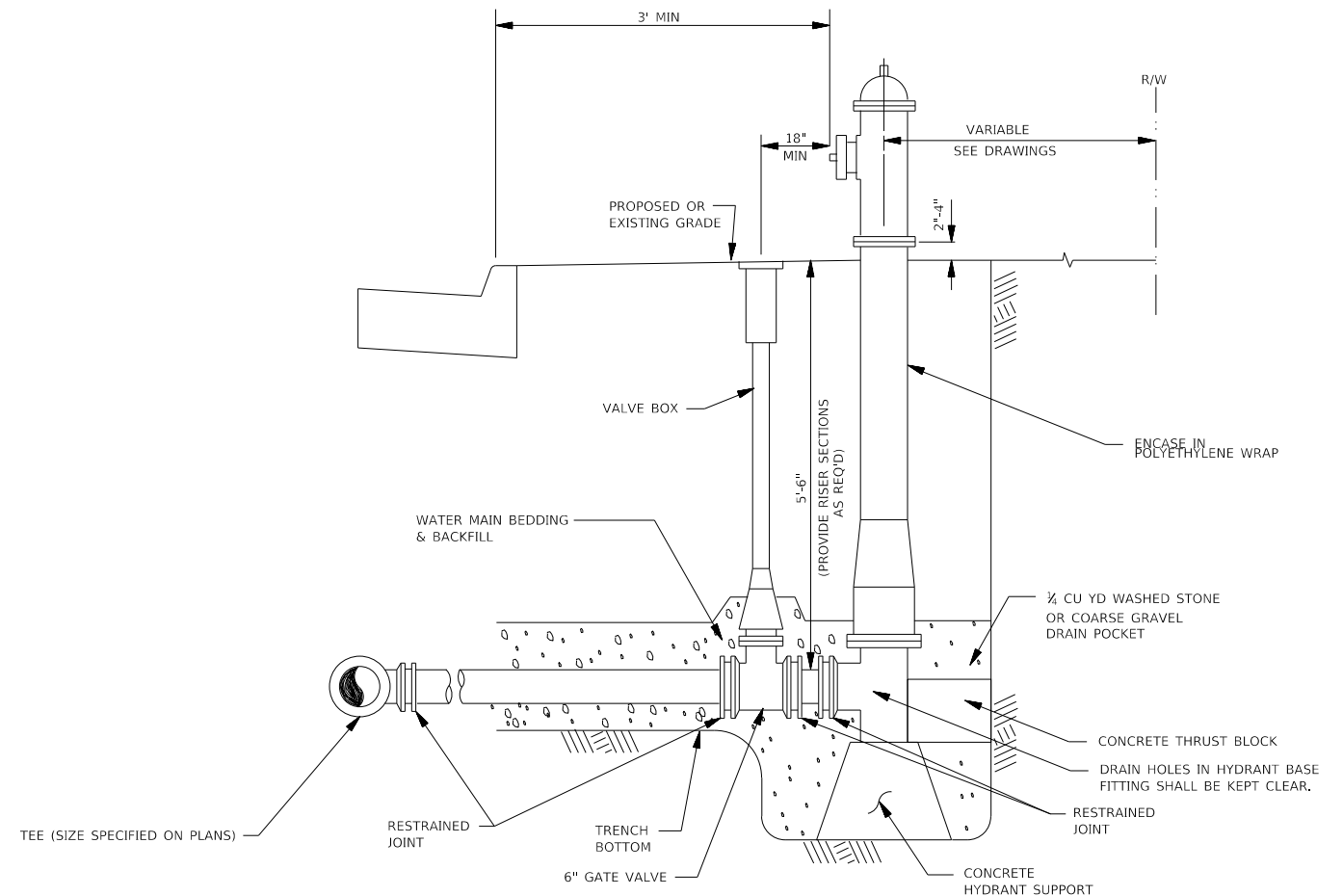
SECTION A-A



SEWER CONNECTIONS TO STRUCTURES

NOTES:

- EXISTING REINFORCEMENT STEEL SHALL BE CLEANED OF ALL LOOSE CONCRETE PARTICLES, AND CUT, BENT, AND TIED TO NEW REBAR INTO THE COLLAR.
- APPLY BONDING AGENT BETWEEN NEW SEWER AND OLD CONCRETE SURFACE.
- ALL GAPS AFTER INSTALLATION OF NEW SEWER TO BE DRY PACKED WITH GROUT.

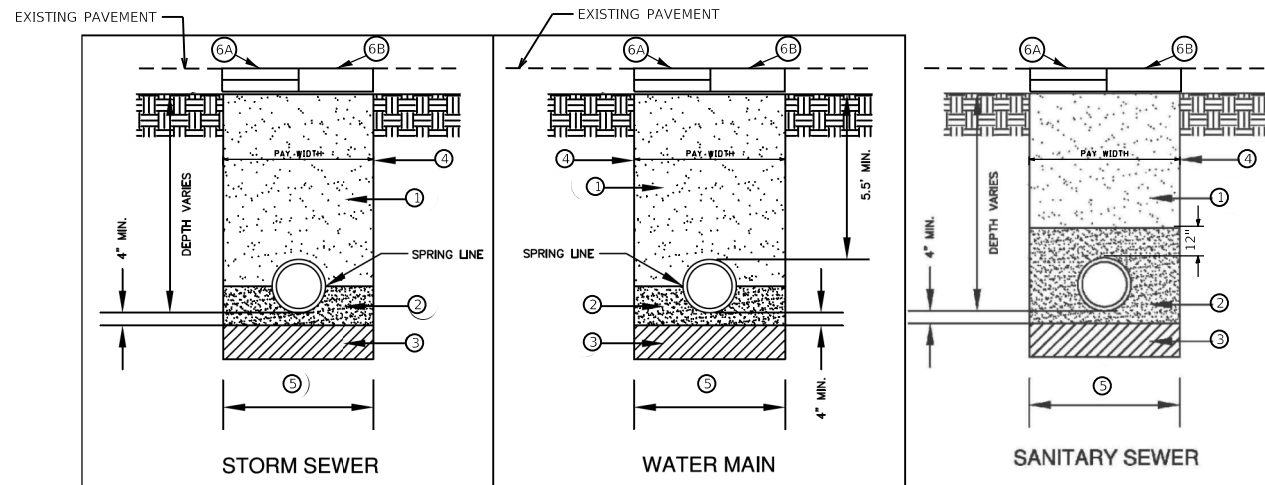


FIRE HYDRANT COMPLETE

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CONTRACT NO.			61G22	
ILLINOIS FED. AID PROJECT				



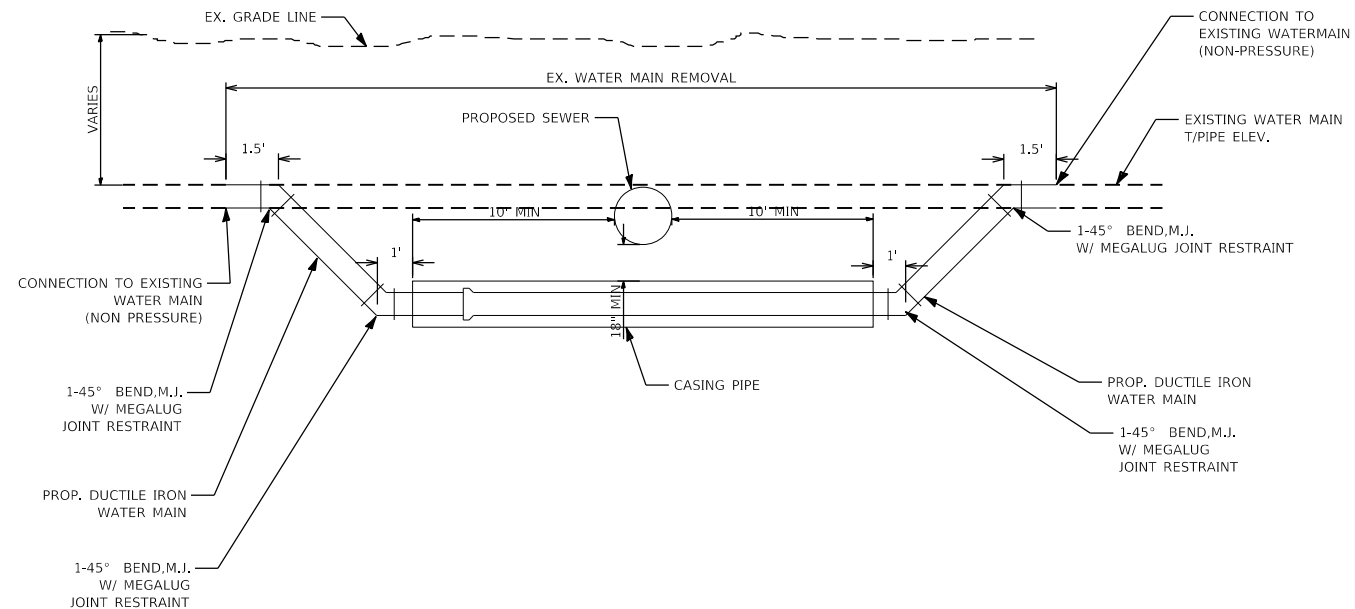
LEGEND

- ① BACKFILL & COMPACT GRANULAR TRENCH BACKFILL (CA-6, GRADE 8 OR APPROVED EQUAL) UNDER STREET PAVEMENT, DRIVEWAYS, SIDEWALK AND WITHIN 2' OF PAVED CURB EXCAVATED MATERIAL MAY BE USED IN NON-PAVED AREAS.
 - ② CA-11 OR CA-13 STONE OR OTHER APPROVED SELECT BACKFILL TAMPED INTO PLACE TO SPRING LINE OR PIPE.
 - ③ IF ENCOUNTERED, REMOVE UNSUITABLE MATERIALS AND REPLACE WITH CA-11 AS DIRECTED BY THE TESTING AGENCY OR THE ENGINEER, UP TO A MAX. OF 18".
 - ④ TRENCH SIDES TO BE SLOPED OR SHEETED/SHORED IN ACCORDANCE WITH OSHA REQUIREMENTS.
 - ⑤ MAXIMUM TRENCH WIDTH = 18" (1'-6") + O.D. WHEN TRENCH < 5 FEET
= 36" (3'-0") + O.D. WHEN TRENCH > 5 FEET
- ⓐ SEE SHEET 15 FOR ROADWAY PAVEMENT SECTION.
ⓑ SEEDING, WITH 4" TOPSOIL AT UNPAVED, GRASS AREAS.

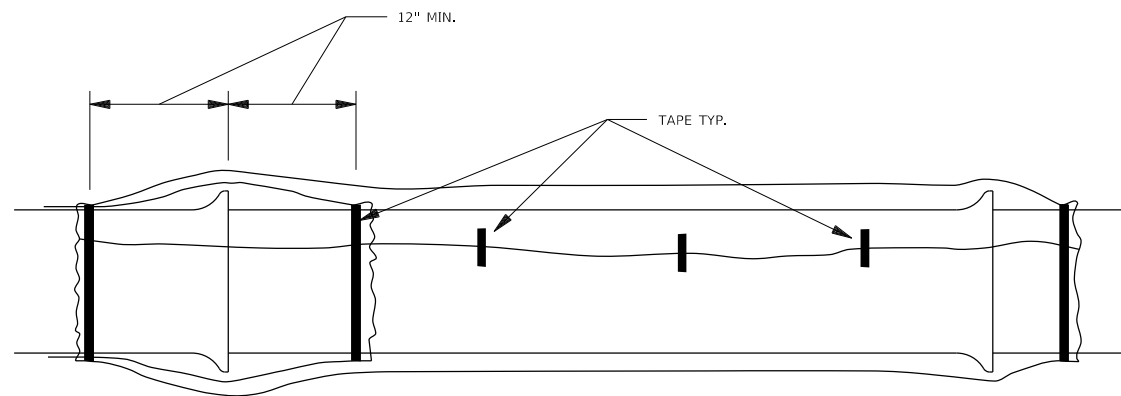
NOTES:

1. CONTRACTOR SHALL NOTIFY THE ENGINEER THE EXTEND OF ANY UNSUITABLE MATERIALS FOUND AS SOON AS THEY ARE ENCOUNTERED, AND BEFORE LAYING AN SEWER OR WATER MAIN PIPING.

SEWER /WATER TRENCH SECTION

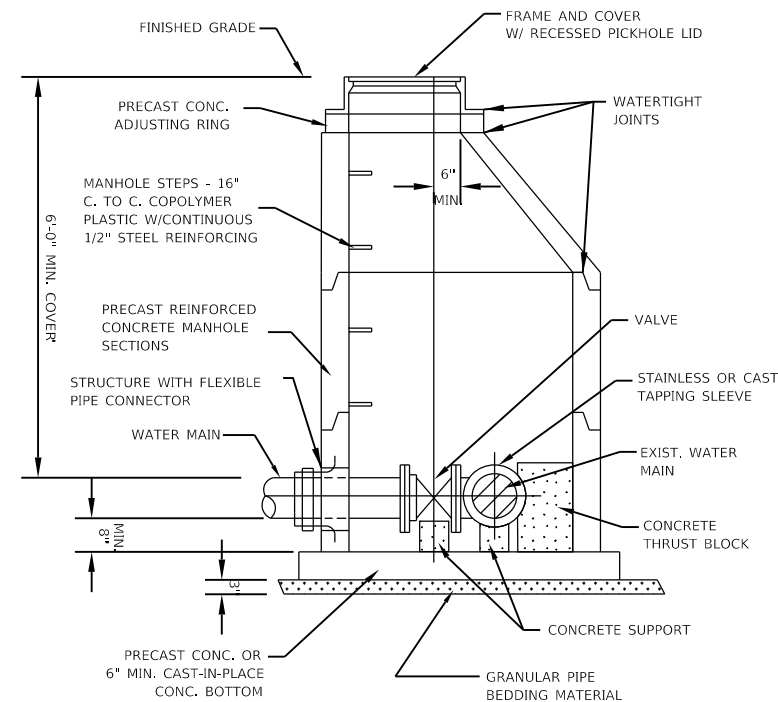


WATER MAIN ADJUSTMENT



ONE LENGTH OF POLYETHYLENE TUBE FOR EACH LENGTH OF PIPE, OVERLAPPED AT JOINT, AND EXCESS FOLDED OVER TOP FOR SLACK REDUCTION. (PER AWWA C105)

WATER MAIN POLYETHYLENE WRAP



NOTES:

1. ECCENTRIC CONE REQUIRED
2. USE 4'-0" DIAMETER FOR WATER MAIN SIZES 4" THRU 8",
USE 5'-0" DIAMETER FOR WATER MAIN SIZES 10" THRU 20",
USE 6'-0" DIAMETER FOR WATER MAIN SIZES 20" OR GREATER.
3. TWO (2) CORPORATION STOPS SHALL BE INSTALLED INSIDE THE VALVE VAULT (ONE ON EITHER SIDE OF THE VALVE).

WATER MAIN PRESSURE CONNECTION

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

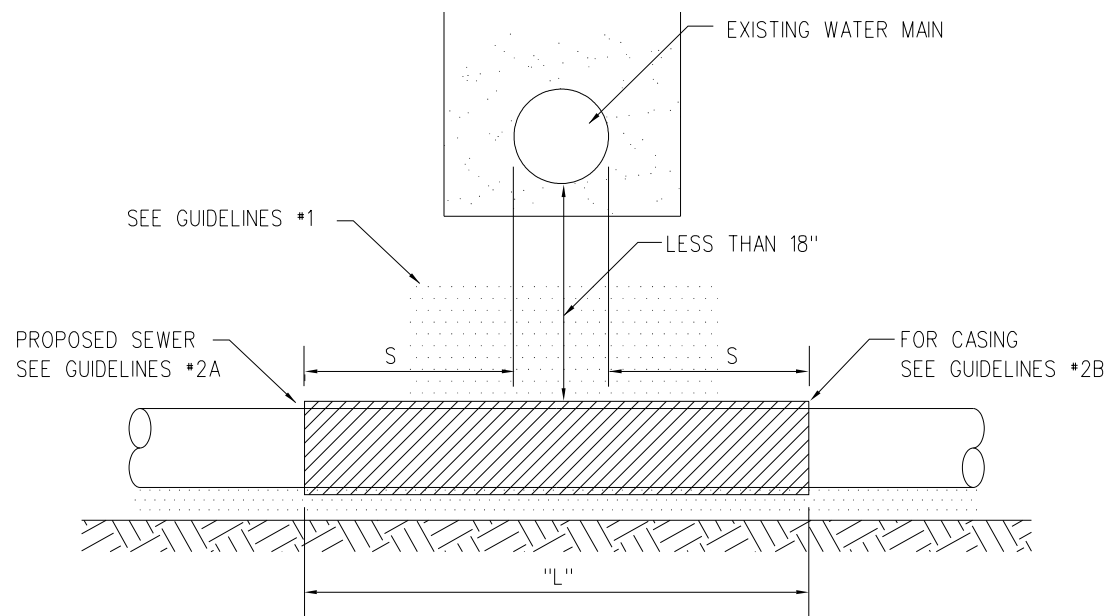
**BROOKFIELD AVE OVER SALT CREEK
WATER AND SEWER DETAILS**

SCALE: N.T.S. SHEET 3 OF 8 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	47
CONTRACT NO.			61G22	
ILLINOIS FED. AID PROJECT				

PROPOSED SEWER LINE BELOW EXISTING WATER MAIN WITH LESS THAN 18" MINIMUM VERTICAL SEPARATION.

NOTE: COMPACTION REQUIREMENTS REFER TO ARTICLE 20-4



NOTE: "S" THE LENGTH NECESSARY TO PROVIDE 10 FEET OF SEPARATION AS MEASURED PERPENDICULAR TO THE EXISTING WATER MAIN

GUIDELINES

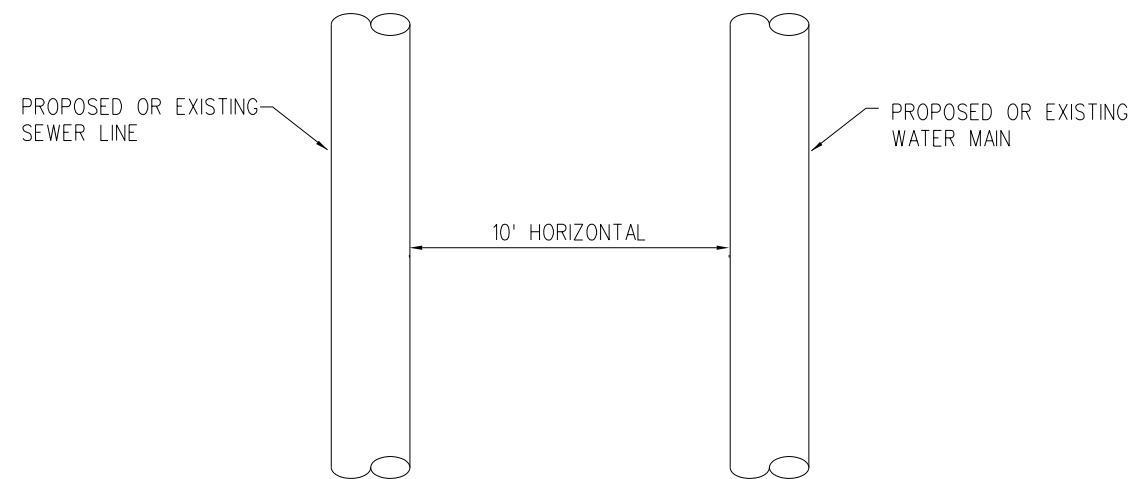
1. OMIT SELECT GRANULAR EMBEDMENT AND GRANULAR BACKFILL TO ONE (1) FOOT OVER TOP OF SEWER AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT FOR "S" FEET ON EACH SIDE OF WATER MAIN.
2. A) CONSTRUCT "L" FEET OF PROPOSED SEWER OF WATER MAIN MATERIAL AND PRESSURE TEST, OR;
B) USE "L" FEET OF WATER MAIN MATERIAL FOR CASING OF PROPOSED SEWER AND SEAL ENDS OF CASING.
3. PROVIDE ADEQUATE SUPPORT FOR EXISTING WATER MAIN TO PREVENT DAMAGE DUE TO SETTLEMENT OF SEWER TRENCH

WATER AND SEWER SEPARATION REQUIREMENTS

VERTICAL SEPARATION

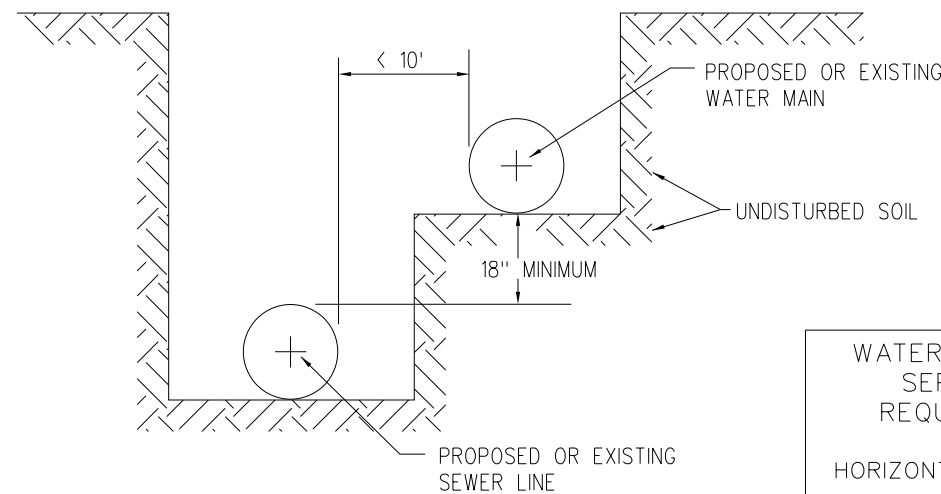
STANDARD DRAWING NO.21

WHEN PROPOSED SEWER (OR WATER) IS LOCATED 10 FEET OR MORE FROM EXISTING WATER (OR SEWER), NO SPECIAL CONSTRUCTION REQUIRED. SEE ARTICLE 41-2.01A (1)



PLAN VIEW

WHEN PROPOSED SEWER (OR WATER) IS LOCATED LESS THAN 10 FEET FROM EXISTING WATER (OR SEWER), DETAILS BELOW SHALL APPLY. SEE ARTICLE 41-2.01B (2)



WATER AND SEWER SEPARATION REQUIREMENTS

HORIZONTAL SEPARATION

STANDARD DRAWING NO.18

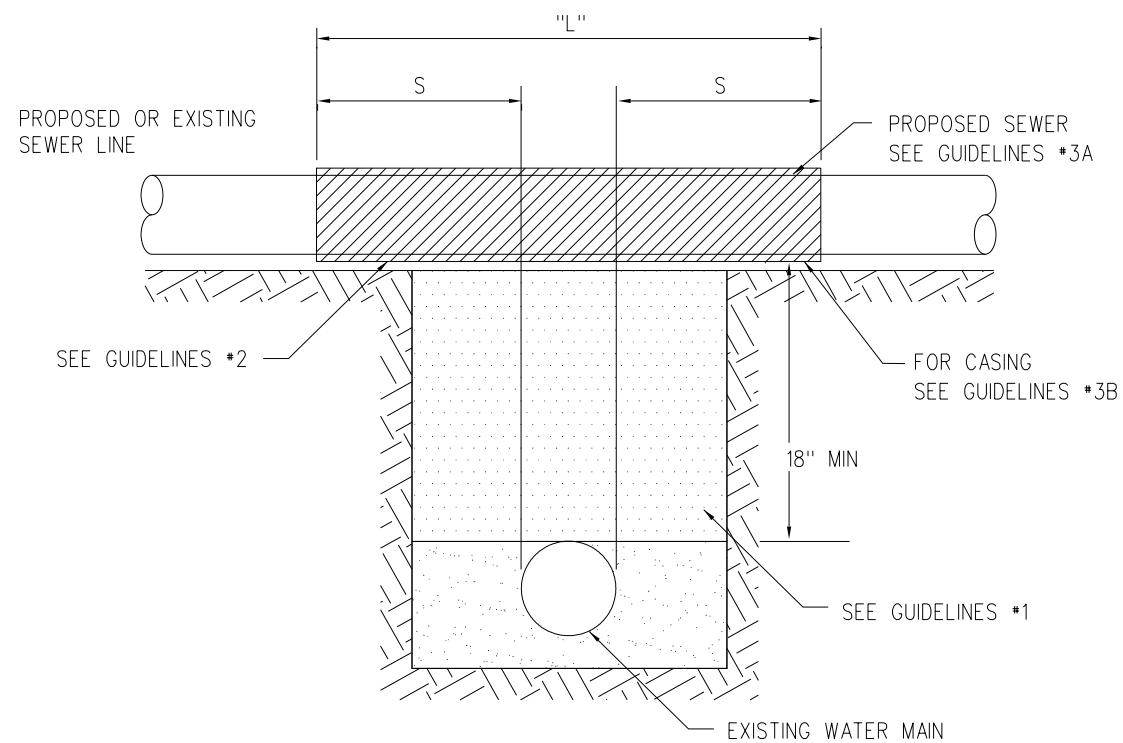
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	DRAWN - DDS	REVISED -
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PLOT DATE = 11/2/2020	DATE - 10/5/2020	REVISED -

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	48
CONTRACT NO.			61G22	
ILLINOIS FED. AID PROJECT				

PROPOSED SEWER LINE WITH 18" MINIMUM VERTICAL SEPARATION ABOVE EXISTING WATER MAIN

NOTE: COMPACTION REQUIREMENTS REFER TO ARTICLE 20-4



NOTE: "S" THE LENGTH NECESSARY TO PROVIDE 10 FEET OF SEPARATION AS MEASURED PERPENDICULAR TO THE EXISTING WATER MAIN

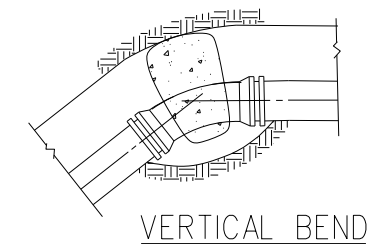
GUIDELINES

1. IF SELECT GRANULAR BACKFILL EXISTS: REMOVE WITHIN WIDTH OF PROPOSED SEWER TRENCH AND REPLACE WITH SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT
2. OMIT SELECT GRANULAR EMBEDMENT AND GRANULAR BACKFILL TO ONE (1) FOOT OVER TOP OF SEWER AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT THE LENGTH OF "L" FEET.
3. A) CONSTRUCT "L" FEET OF PROPOSED SEWER OF WATER MAIN MATERIAL AND PRESSURE TEST, OR;
B) USE "L" FEET OF WATER MAIN MATERIAL FOR CASING OF PROPOSED SEWER AND SEAL ENDS OF CASING.

WATER AND SEWER SEPARATION REQUIREMENTS

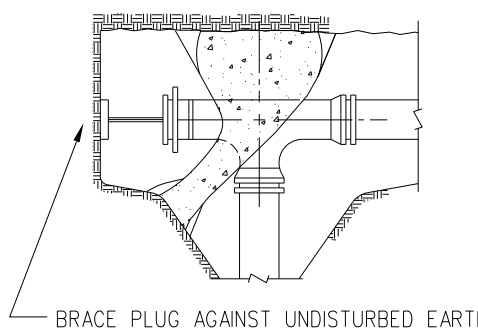
VERTICAL SEPARATION

STANDARD DRAWING NO.19



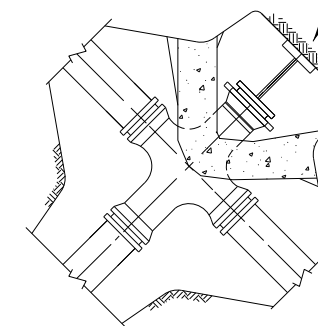
VERTICAL BEND

BRACE PLUG AGAINST UNDISTURBED EARTH

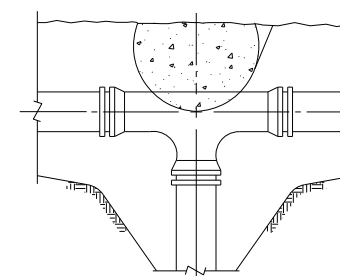


BRACE PLUG AGAINST UNDISTURBED EARTH

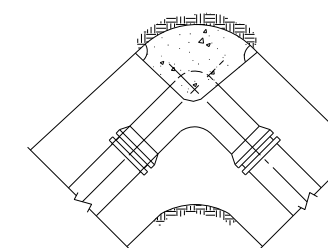
PLUGGED TEE



PLUGGED CROSS



TEE



90° ELBOW

NOTE: ALL BLOCKS BEAR AGAINST UNDISTURBED EARTH. ARROWS INDICATE DIRECTION OF THRUST. ALL BLOCKS TO BE 3000 P.S.I CONCRETE. ALL FITTINGS SHOWN IN PLAN EXCEPT VERTICAL BEND.

TYPICAL THRUST BLOCK INSTALLATIONS

STANDARD DRAWING NO.12

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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	49
CONTRACT NO.			61G22	
ILLINOIS FED. AID PROJECT				

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PLOT DATE = 11/2/2020	DATE - 10/5/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BROOKFIELD AVE OVER SALT CREEK
WATER AND SEWER DETAILS**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	50
CONTRACT NO.			61G22	
ILLINOIS		FED. AID PROJECT		

SCALE: N.T.S. SHEET 6 OF 8 SHEETS STA. TO STA.

ELEVATION - ECCENTRIC

ELEVATION - CONCENTRIC

REINFORCED CONCRETE TOP

WATER TIGHT JOINT DETAIL

WATERPROOF FRAME AND BOLTED LID

DETAIL OF M.H. TOP TO BE USED WHERE RESTRICTED HEAD ROOM WILL NOT PERMIT TAPERED WALLS.

Labels in drawings include: FINISHED GRADE, PRECAST CONCRETE ADJUSTMENT RINGS (2" MIN AND 12" MAX), BITUMINOUS MASTIC, OR RUBBER GASKET SEAL, CAST IRON FRAME AND COVER LETTERED "SANITARY" WITH CONCEALED PICKHOLE AND WATERTIGHT GASKET, CORRUGATED WALLS, WATERTIGHT JOINT, PRECAST REINFORCED CONCRETE MANHOLE SECTIONS PER ASTM C-478, SLOPE TO DRAIN, ASTM C923 CONNECTOR, BOTTOM SLAB: 3500 PSI CONCRETE OR PRECAST REINFORCED CONCRETE SLAB, 4" BEDDING, MAX 1", STEPS AT 16" O.C., CIRCULAR, DIA. 72, SLOPE TO DRAIN, 2" DIA., TONGUE, JOINT SEALING PRIMER PAINTED ON MATING SURFACES, PREFORMED JOINT SEALING COMPOUND, JOINT OPEN, GROOVE, JOINT CLOSED, TONGUE, GROOVE, PERMITTING VISUAL INSPECTION.

- MANHOLES TO HAVE PRECAST "RUBBER BOOTS" CONFORMING TO ASTM C-923 AT ALL PIPE CONNECTIONS.
- SANITARY MANHOLES SUBJECT TO SATURATION SOIL CONDITIONS OR SURFACE SUBMERGENCE SHALL BE EQUIPPED WITH CHIMNEY SEALS AND WATER TIGHT DOWN MANHOLE COVERS.
- MASTIC SEALANT OR RUBBER GASKET SEAL MUST BE APPLIED BETWEEN CONCRETE & FLANGE OF FRAME BEFORE LID BOLTS ARE TIGHTENED.
- SAFETY LANDINGS REQUIRED FOR MANHOLES GREATER THAN 28 FEET DEPTH (RIM TO INVERT). MAXIMUM VERTICAL SPACING OF SAFETY LANDING IS 20 FEET.
- FOR DROP CONNECTIONS, USE DROP CONNECTION MANHOLE DETAIL.
- FOR ONLINE CONNECTIONS GREATER THAN 15 INCHES, USE DOGHOUSE MANHOLE DETAIL.

ALT MATERIALS FOR WALLS	D	T (MIN.)
PRECAST REINFORCED CONCRETE SECTION	4 FEET 5 FEET 6 FEET	4 IN 5 IN 6 IN
CAST-IN-PLACE CONCRETE	4 FEET 5 FEET 6 FEET	4 IN 5 IN 6 IN

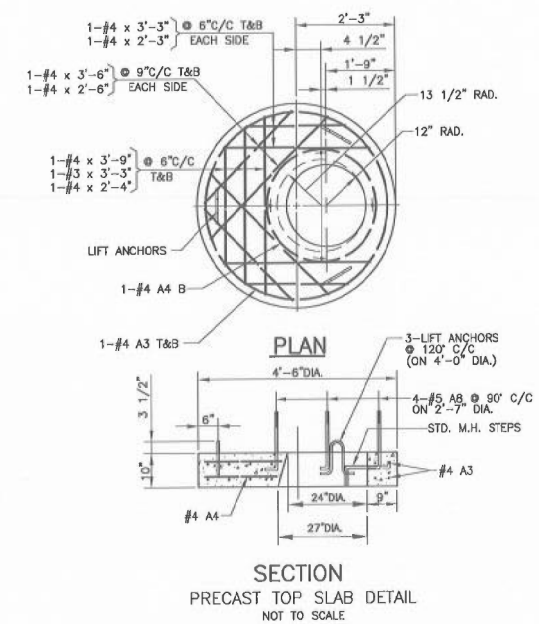
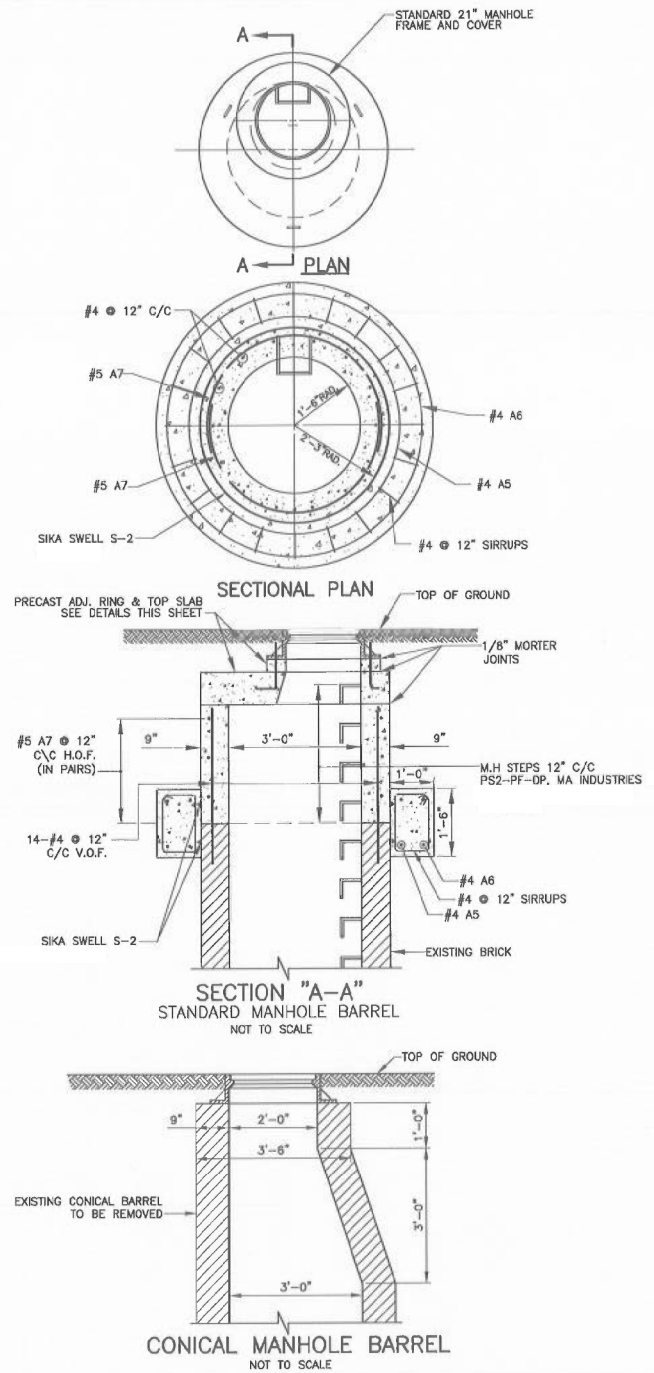
NOT TO SCALE

	TECHNICAL GUIDANCE MANUAL		7/1/15
	TYPICAL SANITARY MANHOLE "A" AND "B" DETAIL		STD. DWG. NO.39
			PAGE NO. 40

NOTES:
 1. MANHOLE STRUCTURE SHALL NOT BE USED WITH MWRD OWNED SEWER INFRASTRUCTURE.
 2. WALL THICKNESS FOR D = 7-FT DIA. STRUCTURE SHALL BE T = 8 INCHES.

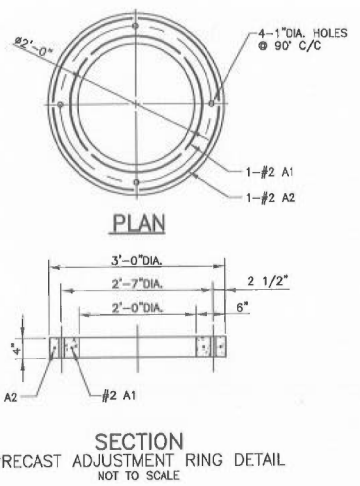
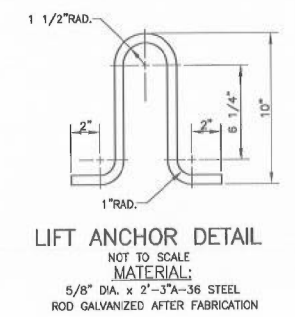
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RE-BAR BENDING DETAILS						
MARK	SIZE	LENGTH	TYPE	A	B	R
A1	#2	7'-6"	②	-	-	13 1/2"
A2	#2	9'-6"	②	-	-	17"
A3	#4	13'-3"	②	-	-	24"
A4	#4	9'-3"	②	-	-	18 1/2"
A5	#4	16'-3"	②	-	-	30"
A6	#4	19'-4"	②	-	-	36"
A7	#5	7'-10"	③	7'-10"	-	24"
A8	#5	2'-0"	①	6"	1'-6"	-

NOTE:
 9" THICK PRECAST CONCRETE RINGS WITH CAST IN PLACE RUNGS MAY BE USED IN PLACE OF CAST IN PLACE CONCRETE WHEN EXTENDING THE HEIGHT OF THE MANHOLE BARREL. ALL EXTENSION SHALL BE IN ONE PIECE AND IN INCREMENTS OF 12".
 ALL JOINTS SHALL BE CLEANED, SQUARED AND GROUTED IN A MANNER TO PRECLUDE POSSIBILITY OF LEAKS AT JOINT.
 THE PRECAST TOP SLAB SHALL BE REMOVED AND REPLACED AS REQUIRED.
 ALL ELEMENTS OF THE MANHOLE DISTURBED OR DAMAGED DURING ALTERATION SHALL BE CORRECTED OR REPLACED TO MEET THE STANDARD HEREIN SHOWN AND SPECIFIED.



PROCEDURE:
 A) TO RAISE ELEVATION 0" TO 12" MAX., ADD 4" THICK ADJUSTMENT RINGS AS DETAILED. INCREMENTS OF LESS THAN 4" SHALL BE OBTAINED BY HAND PACKING A DRY CEMENT GROUT OVER 100% OF THE BEARING AREA.
 B) TO RAISE THE ELEVATION OVER 12", REMOVE THE 4" ADJUSTMENT RING AND EXTEND THE MANHOLE BARREL THE REQUIRED HEIGHT. BASED ON THE ADJUSTMENT DEPTH, WITH CAST IN PLACE CONCRETE REINFORCED AND LADDER RUNGS AT 12" O.C., AS DETAILED. TOP OF EXISTING CONCRETE TO BE CLEANED AND ROUGHENED AND NEW CONCRETE PLACED IN A MANNER TO INSURE BONDING AND NO LEAKAGE. PLACE GROUT FILLER AS IN PROCEDURE (A) ABOVE.

Rev.	Description	Appr.	Date

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO
 Checked by: JJ
 Drawn by: SDO
 Design Engineer: JJ
 Scale: AS NOTED
 Drawing code: XX

CONTRACT 06-158-35
 DES PLAINES RIVER INTERCEPTING SEWER REHABILITATION, SSA
PROCEDURE FOR ADJUST. ELEV. OF EXIST. 36" DIA. MANHOLE WITH CONICAL TOP

Sheet Number: **C-168**
 Page Number: 70

FRAME AND LID /STRUCTURE ADJUSTMENTS (SPECIAL)

- NOTES:
- THE DISTANCE BETWEEN THE TOP OF THE MANHOLE FRAME AND THE FIRST RUNG SHALL NOT EXCEED 24".
 - MR. PAUL SOBANSKI SHALL BE CONTACTED AT (847)-568-4080. BEFORE THE START OF THE CONSTRUCTION WORK TO VERIFY THE LOCATION OF MWRD FACILITIES AFFECTED BY THE PROJECT AS WELL AS TO LOCATE MWRD STRUCTURES LOCATED NEAR THE PROJECT AREA.
 - AFTER COMPLETION OF THE MANHOLE FRAME AND LID ADJUSTMENTS, MR. PAUL SOBANSKI SHALL BE CONTACTED SO MWRD PERSONNEL CAN FIELD VERIFY AND INSPECT THE WORK COMPLETED.
 - MWRD DOES NOT ACCEPT THE USE OF ADJUSTMENT RINGS (OR RISER RINGS/LID RISERS) THAT SIT ON TOP OF MANHOLE FRAMES.
 - ALL CONCRETE SHALL BE CLASS SI.
 - f'c = 3,500 PSI and fy = 60,000 PSI.

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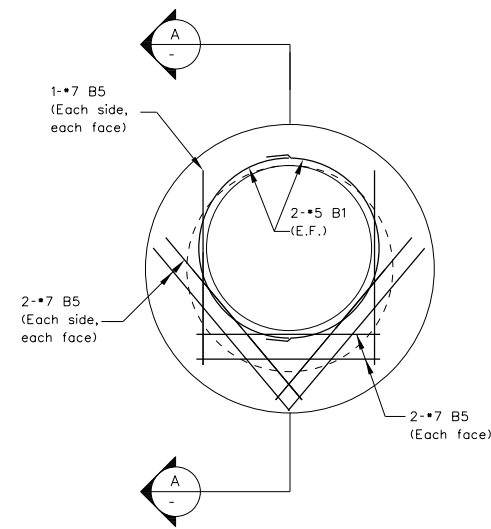


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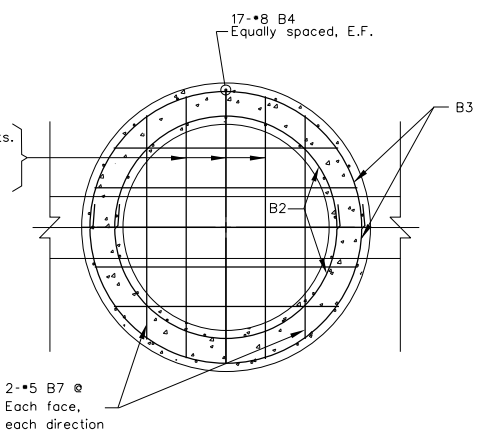
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BROOKFIELD AVE OVER SALT CREEK
WATER AND SEWER DETAILS
 SCALE: N.T.S. SHEET 7 OF 8 SHEETS STA. TO STA.

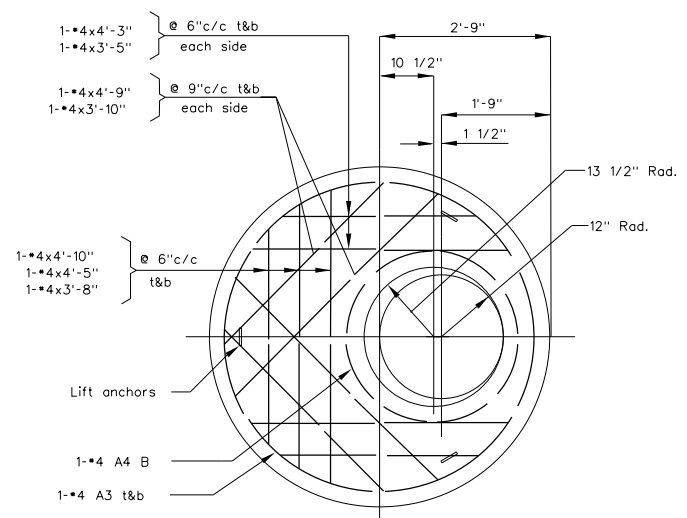
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1408	15-00129-00-BR	COOK	114	51
ILLINOIS FED. AID PROJECT			CONTRACT NO.	61G22



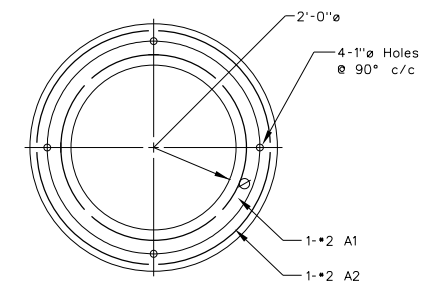
Plan View of Base Top Slab



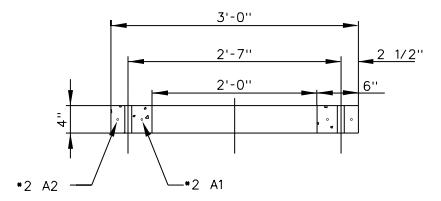
Section B-B



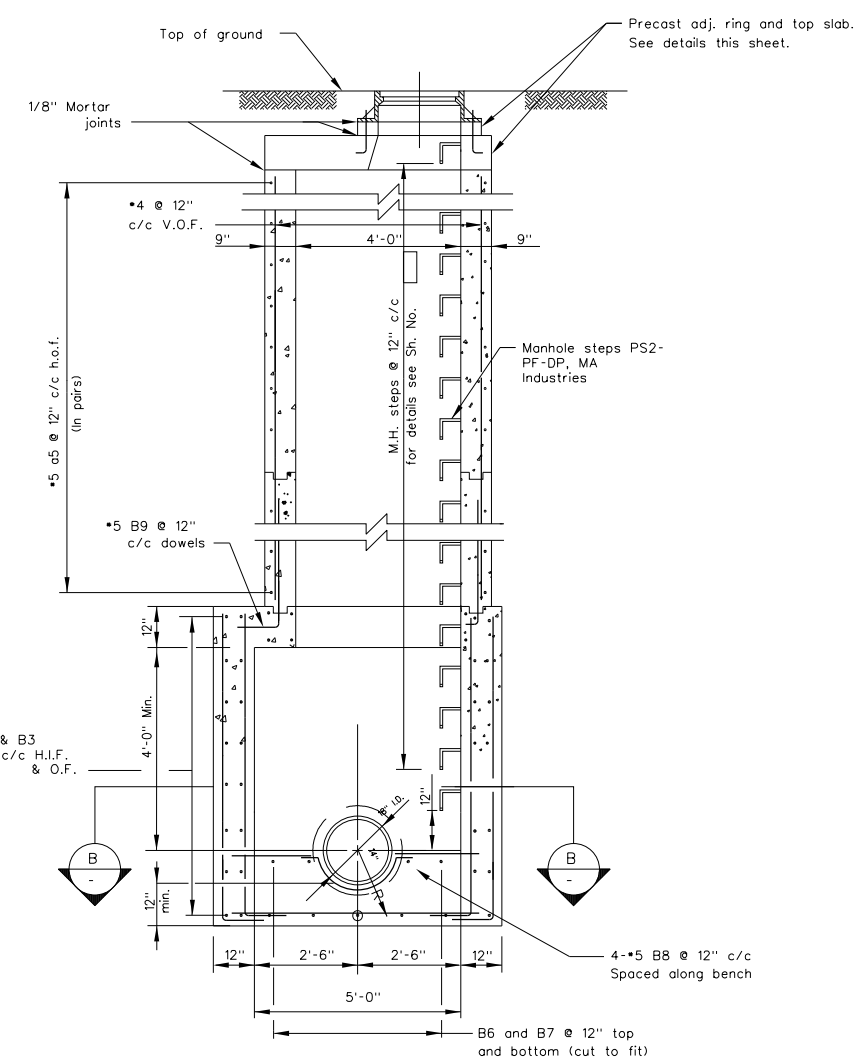
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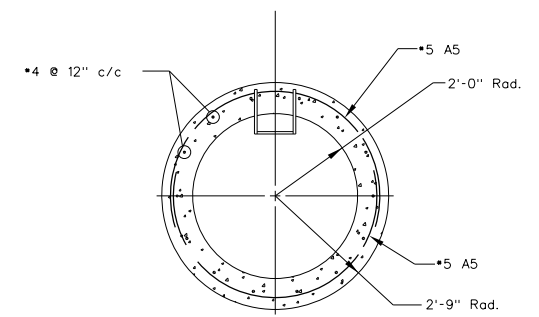
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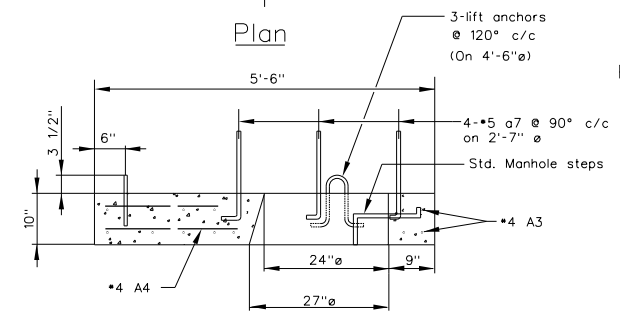
Section
Precast Adjustment Ring Detail
Scale: 1" = 1'-0"



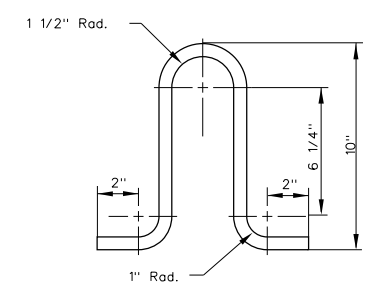
Section A-A



Sectional Plan
Standard Manhole Barrel



Section
Precast Top Slab Detail
Scale: 3/4" = 1'-0"



Lift Anchor Detail
Scale: 3" = 1'-0"
Material: 5/8" x 2'-3"A-36 steel
Rod galvanized after fabrication

Re-Bar Bending Details						
Mark	Size	Lgth	Type	A	B	R
A1	#2	7'-6"	2	-	-	13 1/2"
A2	#2	9'-6"	2	-	-	17"
A3	#4	16'-8"	2	-	-	29 1/2"
A4	#4	9'-3"	2	-	-	16 1/2"
A5	#5	9'-4"	3	9'-4"	-	29 1/2"
A7	#5	2'-0"	1	6"	1'-6"	
B1	#5	10'-9"	3			6'-0"
B2	#5	10'-0"	3			5'-6"
B3	#5	11'-7"	3			6'-6"
B4	#8	6'-11"	1	5'-7"	1'-4"	
B5	#7	5'-0"				
B6	#5	6'-3"				
B7	#5	5'-4"				
B8	#5	7'-10"				
B9	#5	7'-10"	1	0'-9"	2'-6"	

NOTES:
1. F'c = 3,500 PSI and fy = 60,00 PSI

SANITARY MANHOLE, SPECIAL

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BROOKFIELD AVE OVER SALT CREEK
WATER AND SEWER DETAILS**

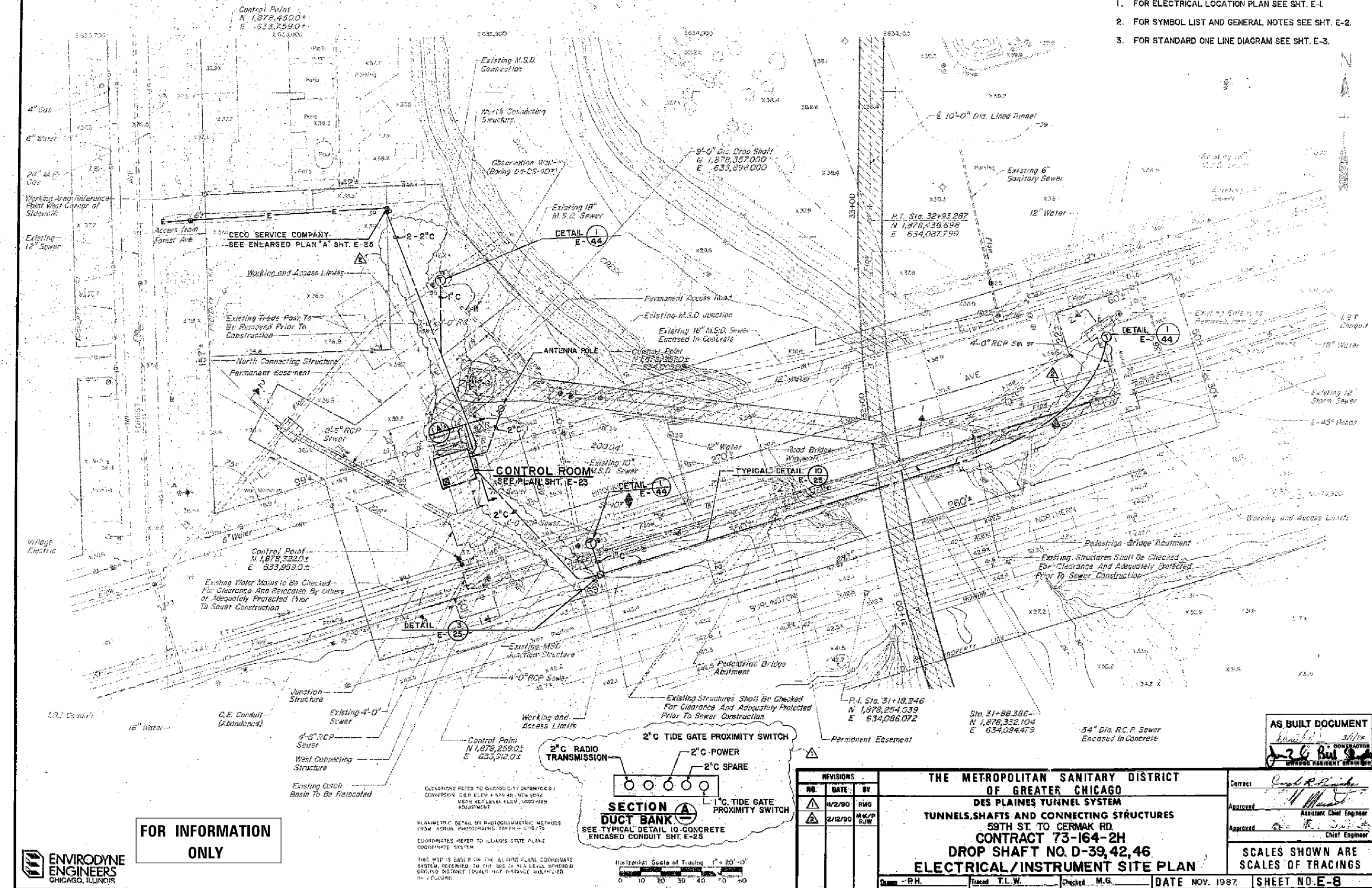
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	52
CONTRACT NO.			61G22	
ILLINOIS FED. AID PROJECT				

PROVISO VILLAGE OF BROOKFIELD TOWNSHIP

NOTES:

1. FOR ELECTRICAL LOCATION PLAN SEE SHT. E-1
2. FOR SYMBOL LIST AND GENERAL NOTES SEE SHT. E-2
3. FOR STANDARD ONE LINE DIAGRAM SEE SHT. E-3



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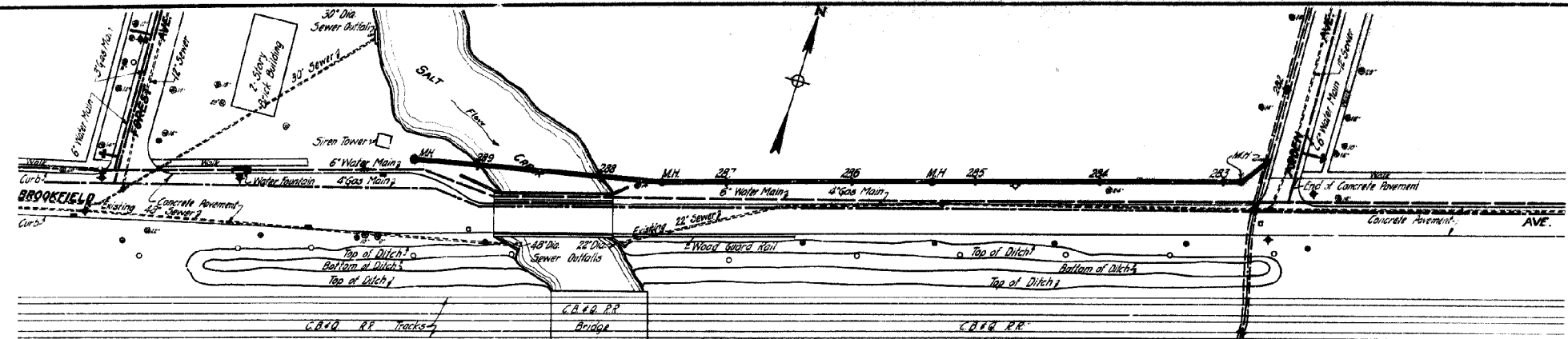
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

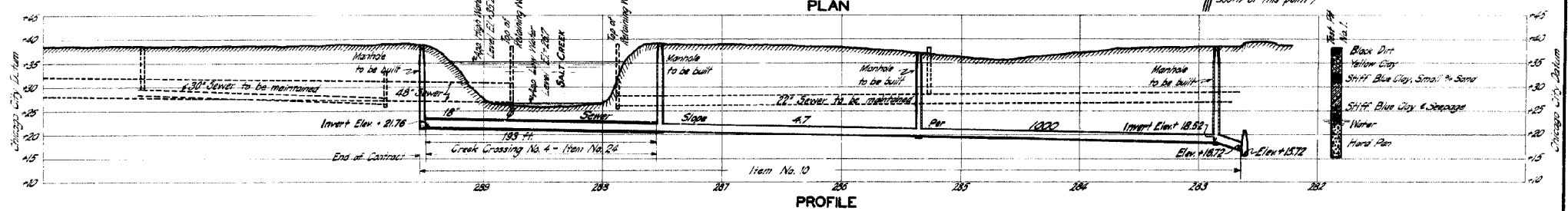
BROOKFIELD AVE OVER SALT CREEK
MWRDGC REFERENCE PLANS

SCALE: N.T.S. SHEET 1 OF 2 SHEETS STA. TO STA.

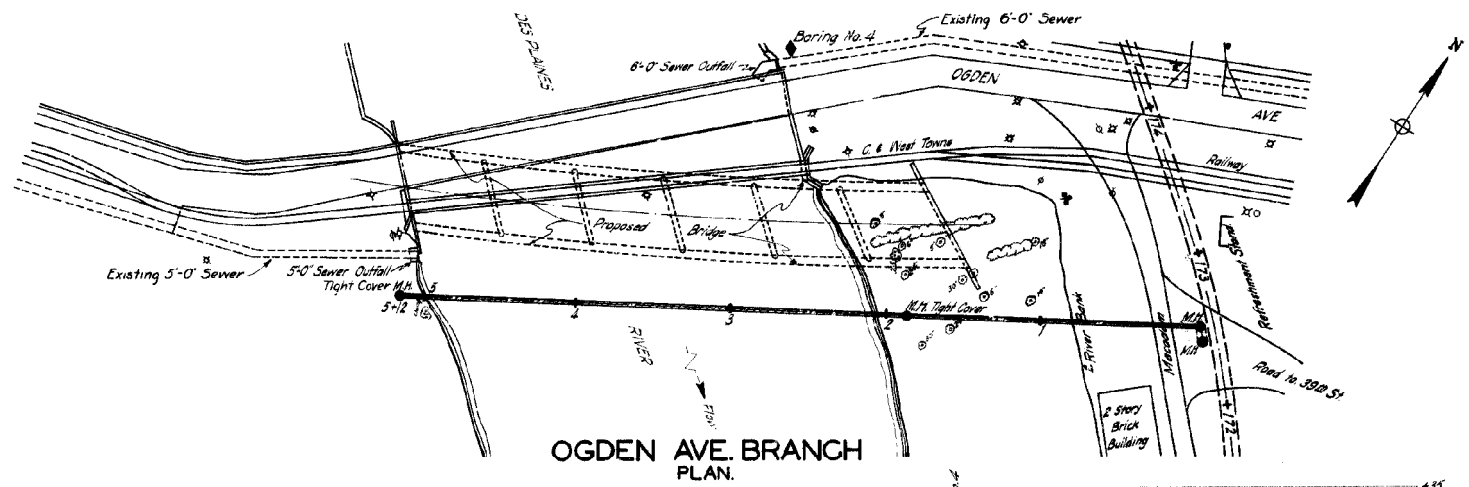
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ILLINOIS FED. AID PROJECT		CONTRACT NO. 61G22		



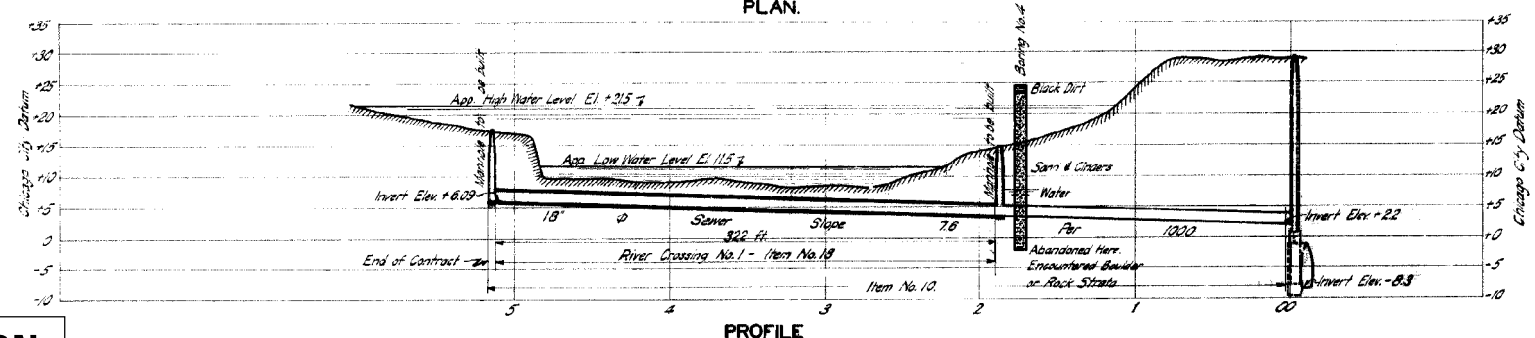
BROOKFIELD AVE. BRANCH.
PLAN



PROFILE



OGDEN AVE. BRANCH
PLAN



PROFILE

FOR INFORMATION ONLY

DRAWN BY: J.P.
TRACED BY: M.D.D.S.
CHECKED BY:
EXAMINED BY: W.H.A.

- Conventional Signs
- Inlet
 - Manhole
 - ◆ Catch Basin
 - ⊕ Light Pole
 - ⊕ Traffic Pole
 - ⊕ Guy Pole
 - ⊕ Telephone Pole
 - ⊕ High Tension Pole
 - Vault
 - S.D.C. Monument
 - ⊕ Hydrant
 - ⊕ 24\"/>

DATE	REVISIONS	BY
10/4/27	Change No. of Creek Crossing from 19 to 20	W.H.A.

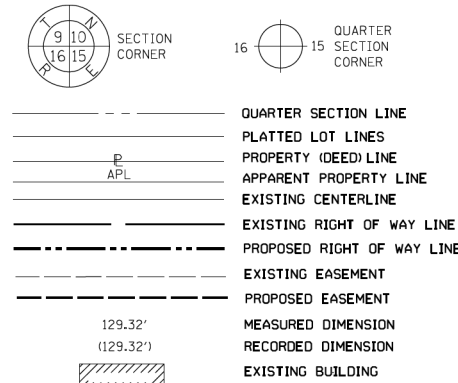
Correct: *W.H.A.*
Engr. Sewer Design
Approved: *W.H.A.*
Ass't Chief Engr.
Approved: *W.H.A.*
Chief Engr.

THE SANITARY DISTRICT OF CHICAGO
SALT CREEK INTERCEPTING SEWER
CONTRACT NO. 2
PLAN AND PROFILE
SEPTEMBER, 1927 SCALE: $\frac{1}{4}'' = 10'$ SHEET NO. 10
20 SHEETS IN SET 61G20

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PART OF THE SE 1/4 OF SECTION 34 AND THE SW 1/4 OF SECTION 35, TWP. 39 N., R. 12 E. OF THE 3RD. P.M., IN COOK COUNTY, ILLINOIS.

LEGEND



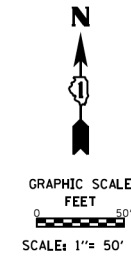
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0001TE-B	N/A	N/A	N/A	N/A	0.062	2,683	15-35-501-001
0001TE-C	N/A	N/A	N/A	N/A	0.100	4,350	

PROP. CURVE BFA-1
 PI STA. = 505+08.43
 $\Delta = 8^\circ 29' 44''$ (RT)
 $D = 5^\circ 43' 46''$
 $R = 1,000.00'$
 $T = 74.27'$
 $L = 148.28'$
 $E = 2.75'$
 P.C. STA. = 504+34.16
 P.T. STA. = 505+82.43

PROP. CURVE BFA-2
 PI STA. = 506+06.06
 $\Delta = 8^\circ 18' 58''$ (LT)
 $D = 17^\circ 37' 46''$
 $R = 325.00'$
 $T = 23.63'$
 $L = 47.17'$
 $E = 0.86'$
 P.C. STA. = 505+82.43
 P.T. STA. = 506+29.60

PROP. CURVE BFA-3
 PI STA. = 507+52.45
 $\Delta = 2^\circ 06' 37''$ (LT)
 $D = 19^\circ 05' 55''$
 $R = 300.00'$
 $T = 5.53'$
 $L = 11.05'$
 $E = 0.05'$
 P.C. STA. = 507+46.92
 P.T. STA. = 507+57.97

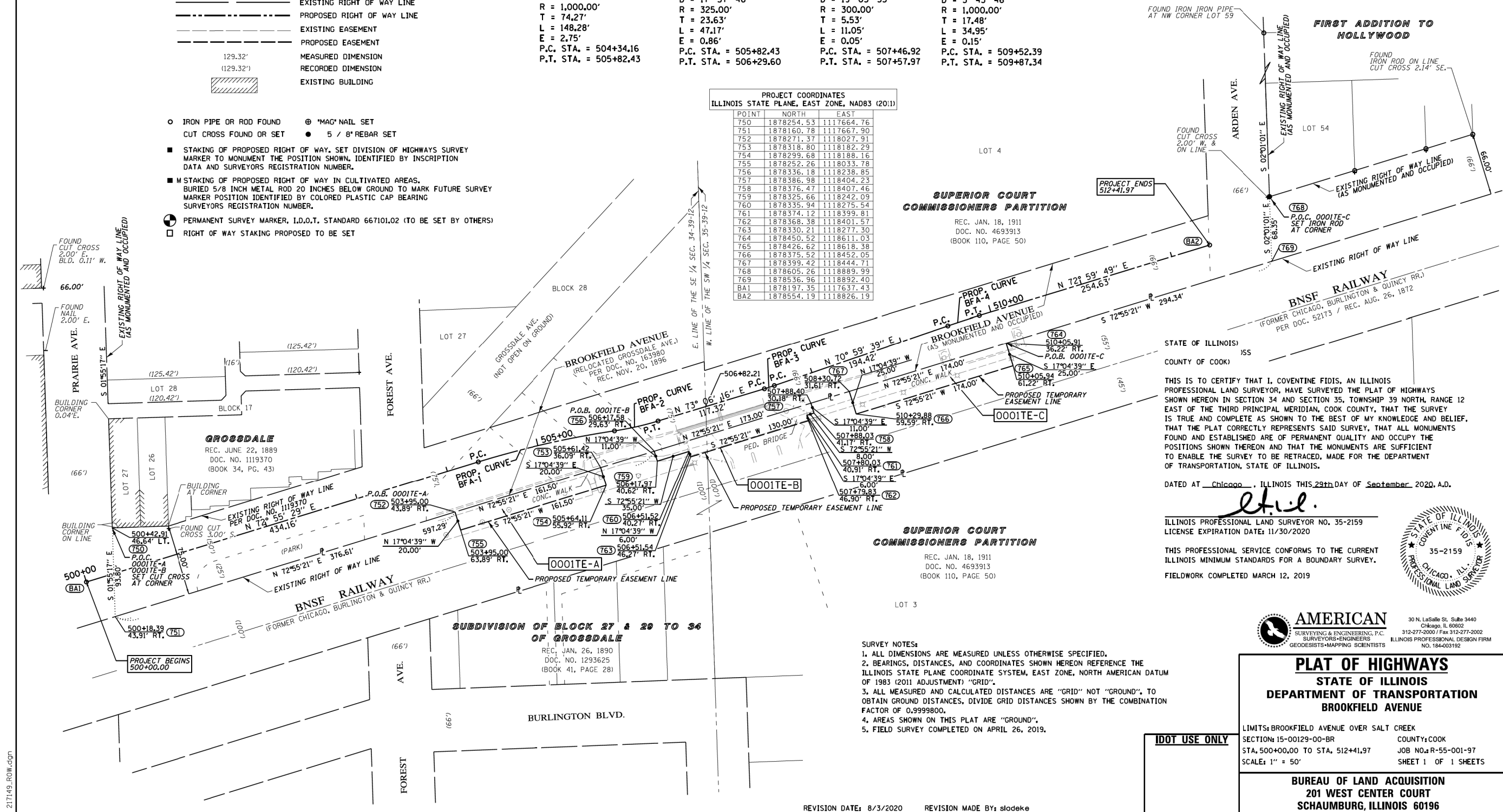
PROP. CURVE BFA-4
 PI STA. = 509+69.87
 $\Delta = 2^\circ 00' 10''$ (RT)
 $D = 5^\circ 43' 46''$
 $R = 1,000.00'$
 $T = 17.48'$
 $L = 34.95'$
 $E = 0.15'$
 P.C. STA. = 509+52.39
 P.T. STA. = 509+87.34



- IRON PIPE OR ROD FOUND ⊕ 'MAG' NAIL SET
- CUT CROSS FOUND OR SET ● 5 / 8" REBAR SET
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 667101.02 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET

PROJECT COORDINATES
ILLINOIS STATE PLANE, EAST ZONE, NAD83 (2011)

POINT	NORTH	EAST
750	1878254.53	1117664.76
751	1878160.78	1117667.90
752	1878271.37	1118027.91
753	1878318.80	1118182.29
754	1878299.68	1118188.16
755	1878252.26	1118033.78
756	1878336.18	1118238.85
757	1878386.98	1118404.23
758	1878376.47	1118407.46
759	1878325.66	1118242.09
760	1878335.94	1118275.54
761	1878374.12	1118399.81
762	1878368.38	1118401.57
763	1878330.21	1118277.30
764	1878450.52	1118611.03
765	1878426.62	1118618.38
766	1878375.52	1118452.05
767	1878399.42	1118444.71
768	1878605.26	1118899.99
769	1878536.96	1118892.40
BA1	1878197.35	1117637.43
BA2	1878554.19	1118826.19



THIS IS TO CERTIFY THAT I, COVENTINE FIDIS, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 34 AND SECTION 35, TOWNSHIP 39 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF. THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT Chicago, ILLINOIS THIS 29th DAY OF September, 2020, A.D.

et. al.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2159
LICENSE EXPIRATION DATE: 11/30/2020

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.
FIELDWORK COMPLETED MARCH 12, 2019



PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
BROOKFIELD AVENUE

LIMITS: BROOKFIELD AVENUE OVER SALT CREEK
 SECTION: 15-00129-00-BR COUNTY: COOK
 STA. 500+00.00 TO STA. 512+41.97 JOB NO. R-55-001-97
 SCALE: 1" = 50' SHEET 1 OF 1 SHEETS

BUREAU OF LAND ACQUISITION
 201 WEST CENTER COURT
 SCHAUMBURG, ILLINOIS 60196

- SURVEY NOTES:**
- ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.
 - BEARINGS, DISTANCES, AND COORDINATES SHOWN HEREON REFERENCE THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (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 0.9999800.
 - AREAS SHOWN ON THIS PLAT ARE "GROUND".
 - FIELD SURVEY COMPLETED ON APRIL 26, 2019.

REVISION DATE: 8/3/2020 REVISION MADE BY: sladeke

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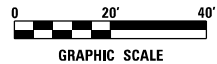
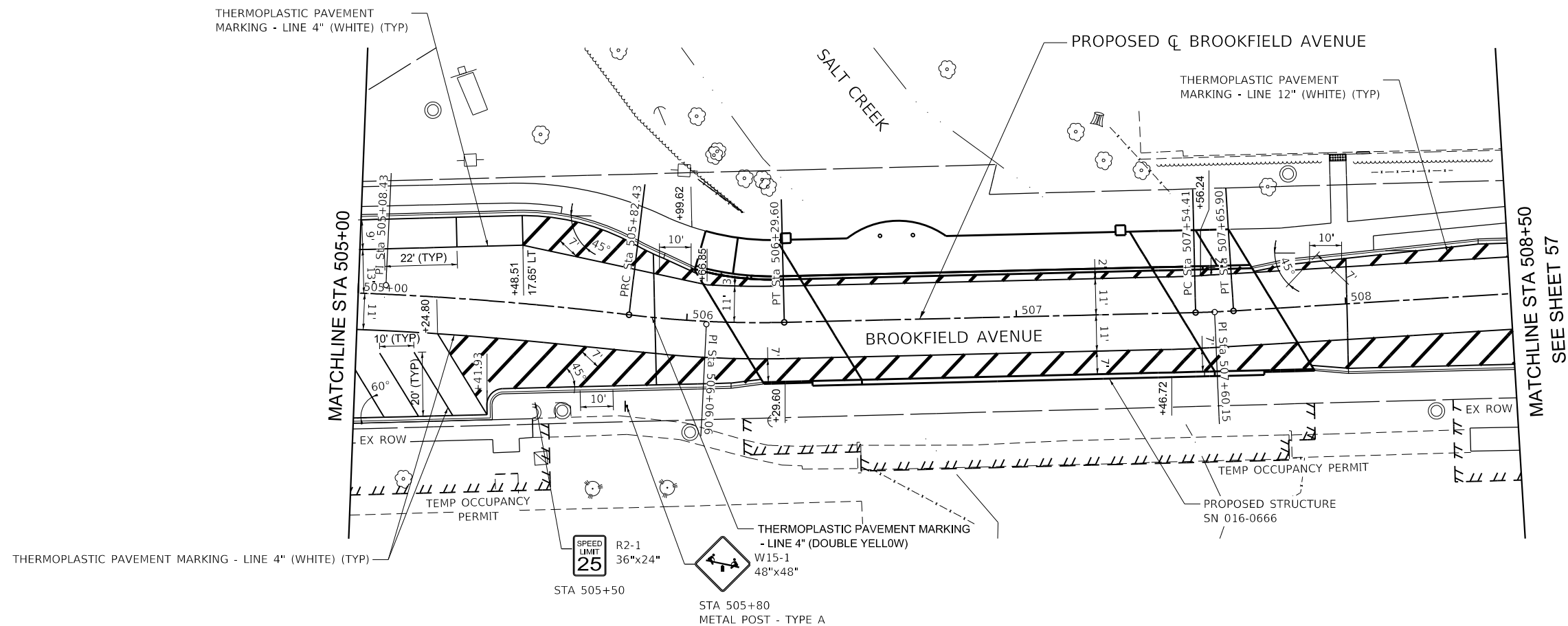
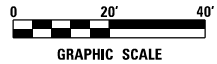
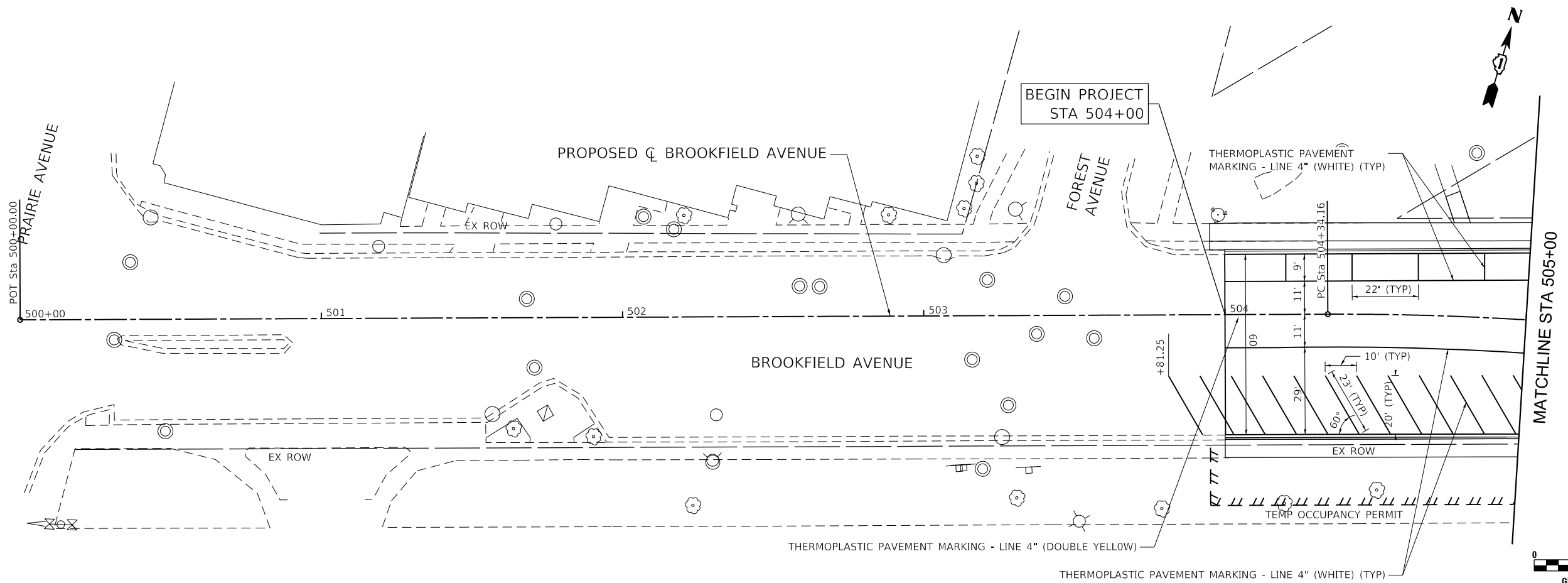
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BROOKFIELD AVE OVER SALT CREEK
PLAT OF HIGHWAYS

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	55
CONTRACT NO.				61G22
ILLINOIS FED. AID PROJECT				



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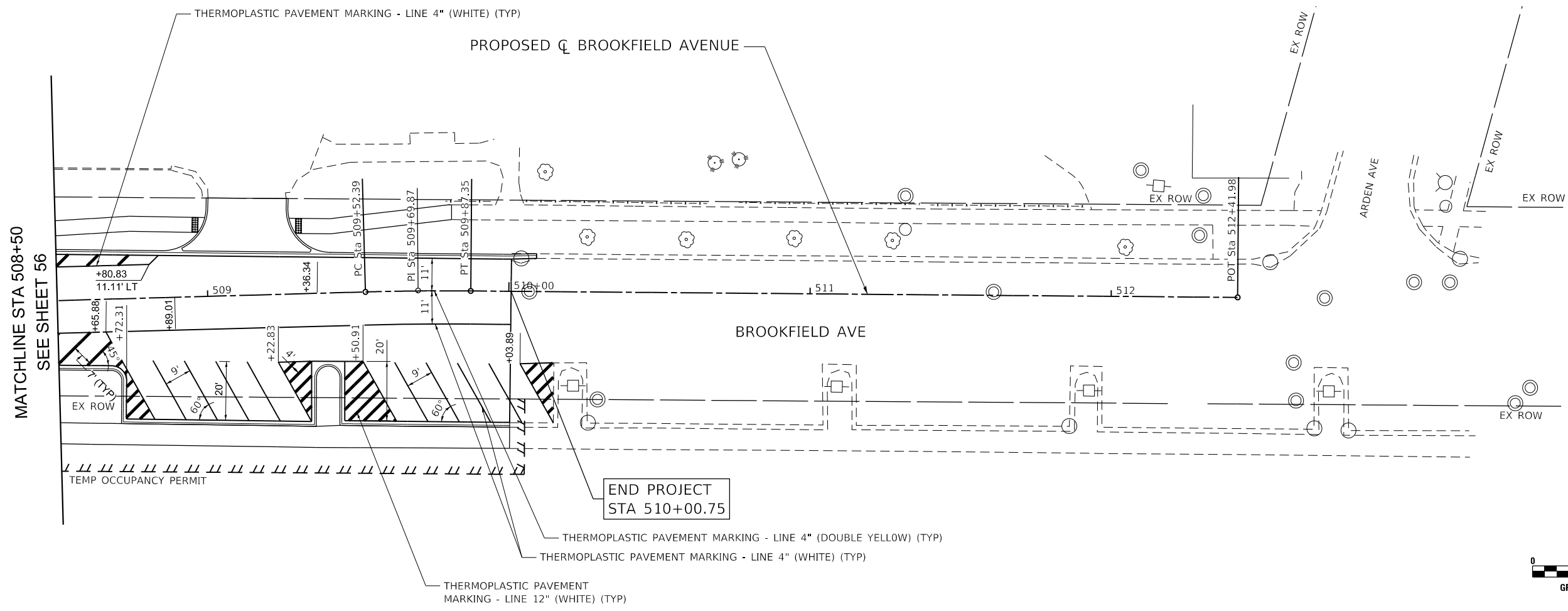
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	DATE - 10/5/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BROOKFIELD AVE OVER SALT CREEK
PAVEMENT MARKING AND SIGNING PLAN

SCALE: 1" = 20' SHEET 1 OF 2 SHEETS STA. 500+00 TO STA. 508+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	56
CONTRACT NO. 61G22				
ILLINOIS FED. AID PROJECT				



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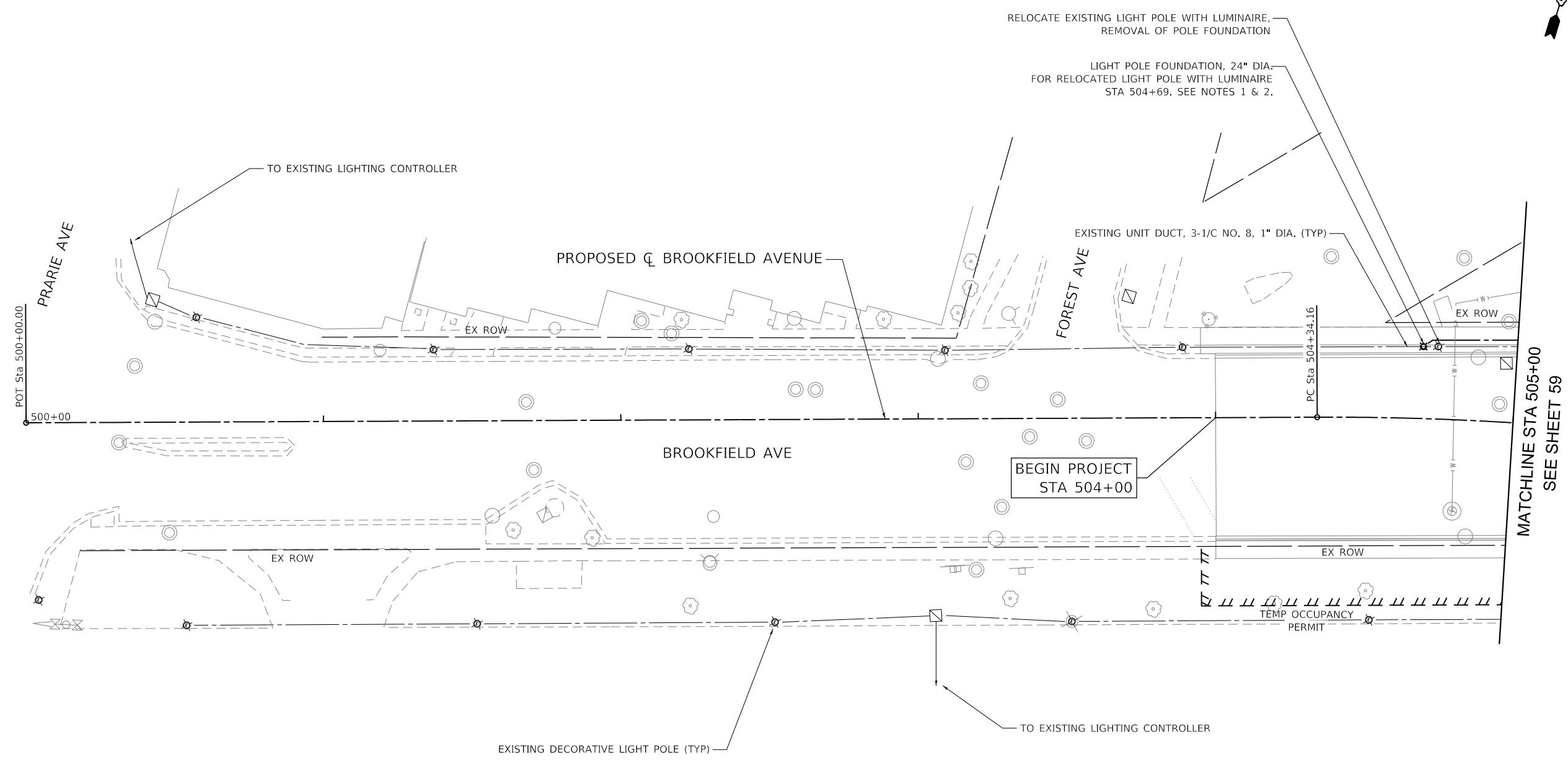
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PLOT DATE =	1/20/2021				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION







BROOKFIELD AVE OVER SALT CREEK
PAVEMENT MARKING AND SIGNING PLAN

SCALE: 1" = 20' SHEET 2 OF 2 SHEETS STA. 508+50 TO STA. 513+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	57
CONTRACT NO.			61G22	
ILLINOIS FED. AID PROJECT				



LIGHTING LEGEND

-  EXISTING DECORATIVE LIGHT POLE
-  EXISTING PARKING LOT LIGHT POLE
-  EXISTING LIGHTING CONTROLLER
-  EXISTING LANDSCAPE LIGHTING
-  INSTALL RELOCATED LIGHT POLE OR LIGHTING UNIT COMPLETE, SPECIAL
-  PROPOSED JUNCTION BOX, STAINLESS STEEL, ATTACHED TO OR EMBEDDED IN STRUCTURE AS NOTED, SIZE AS NOTED.

NOTES:

1. LIGHT POLE FOUNDATION SHALL BE 2" FROM FACE OF CURB TO CENTER OF FOUNDATION.
2. INTERCEPT EXISTING UNIT DUCT AND CONDUCTORS AND ROUTE INTO PROPOSED LIGHT POLE FOUNDATION.



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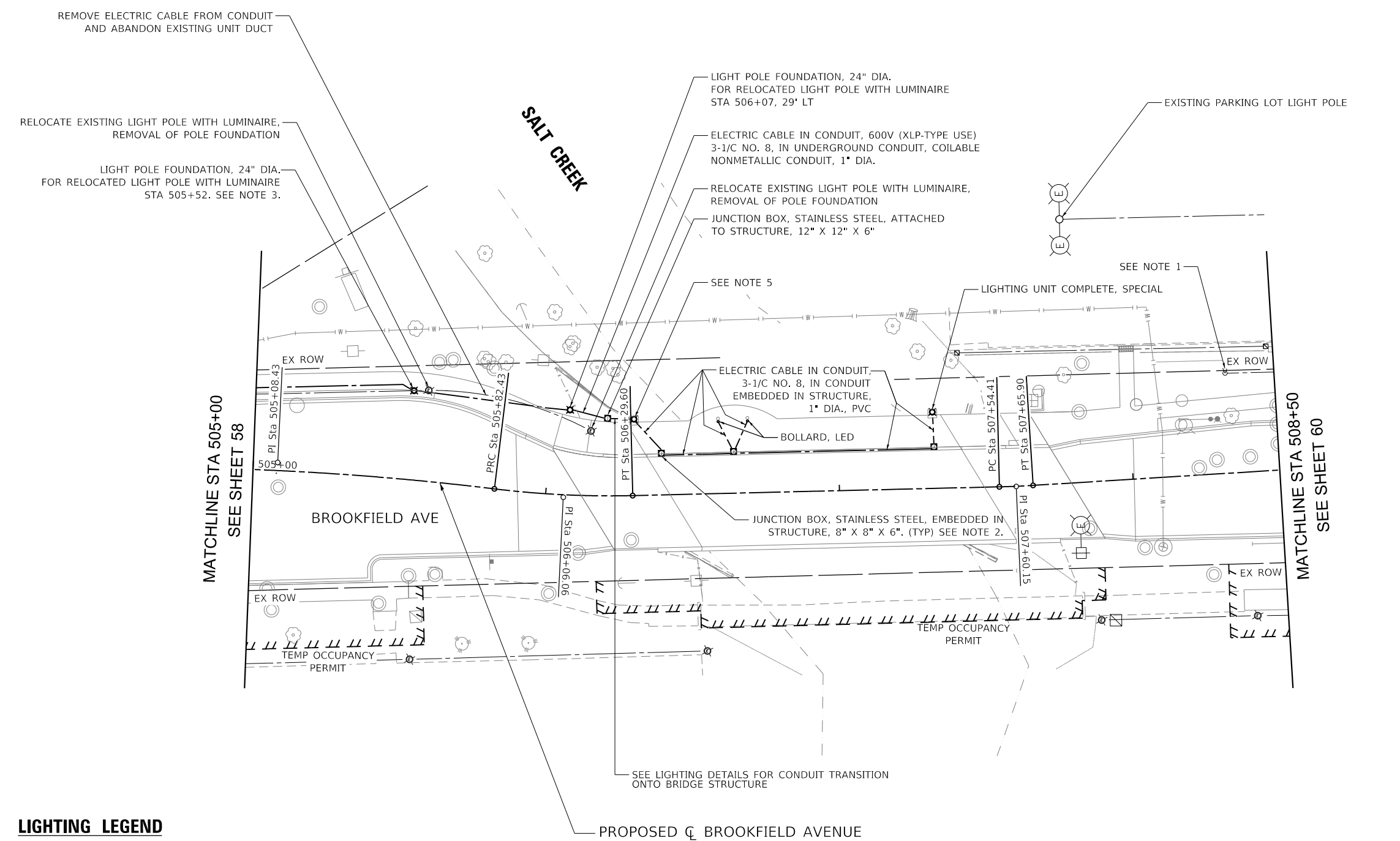
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BROOKFIELD AVE OVER SALT CREEK
PROPOSED LIGHTING PLAN

SCALE: 1" = 20' SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	58
CONTRACT NO.			61G22	
ILLINOIS FED. AID PROJECT				



LIGHTING LEGEND

- EXISTING DECORATIVE LIGHT POLE
- EXISTING PARKING LOT LIGHT POLE
- EXISTING LIGHTING CONTROLLER
- EXISTING LANDSCAPE LIGHTING
- INSTALL RELOCATED LIGHT POLE OR LIGHTING UNIT COMPLETE, SPECIAL
- PROPOSED JUNCTION BOX, STAINLESS STEEL, ATTACHED TO OR EMBEDDED IN STRUCTURE AS NOTED, SIZE AS NOTED.

NOTES:

1. SEE DETAILS FOR REMOVAL AND INSTALLATION OF SIGN LIGHTING.
2. SEE LIGHTING DETAILS FOR JUNCTION BOX EMBEDDED IN BARRIER RAIL DETAIL.
3. LIGHT POLE FOUNDATION SHALL BE 2' FROM FACE OF CURB TO CENTER OF FOUNDATION.
4. INTERCEPT EXISTING UNIT DUCT AND CONDUCTORS AND ROUTE INTO PROPOSED LIGHT POLE FOUNDATION.
5. LIGHT POLE AND LUMINAIRE TO BE INSTALLED BY OTHERS. INSTALL BREAKAWAY DEVICE, TRANSFORMER BASE, 11.5 INCH BOLT CIRCLE WITH SHEET ALUMINUM COVER TO PROTECT CONDUCTORS.



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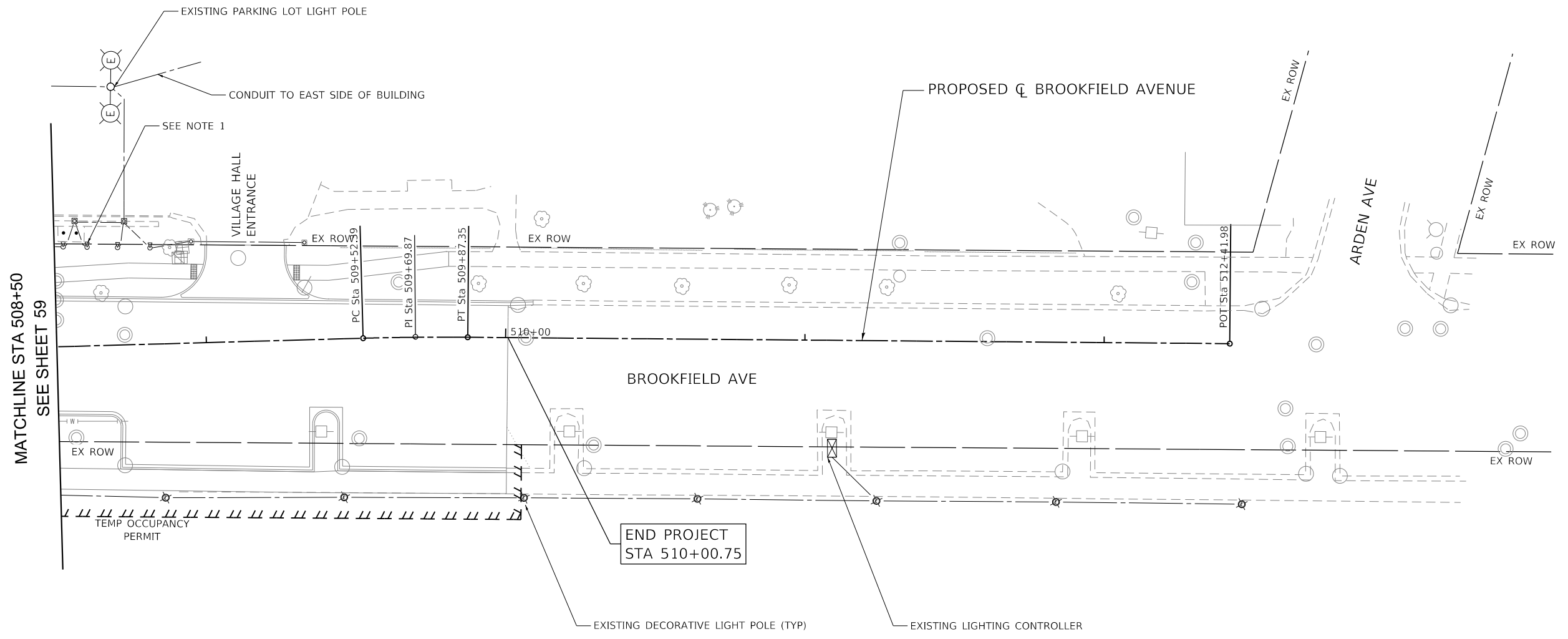
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	DATE - 10/5/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BROOKFIELD AVE OVER SALT CREEK
PROPOSED LIGHTING PLAN

SCALE: 1" = 20' SHEET 2 OF 3 SHEETS STA. TO STA.

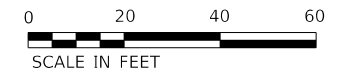
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	59
CONTRACT NO.			61G22	
ILLINOIS FED. AID PROJECT				



LIGHTING LEGEND

- EXISTING DECORATIVE LIGHT POLE
- EXISTING PARKING LOT LIGHT POLE
- EXISTING LIGHTING CONTROLLER
- EXISTING LANDSCAPE LIGHTING
- INSTALL RELOCATED LIGHT POLE OR LIGHTING UNIT COMPLETE, SPECIAL
- PROPOSED JUNCTION BOX, STAINLESS STEEL, ATTACHED TO OR EMBEDDED IN STRUCTURE AS NOTED, SIZE AS NOTED.

NOTES:
 1. SEE DETAILS FOR REMOVAL AND INSTALLATION OF SIGN LIGHTING.



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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

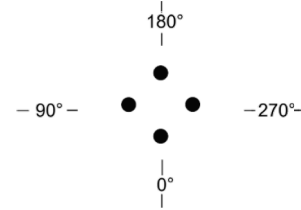
**BROOKFIELD AVE OVER SALT CREEK
 PROPOSED LIGHTING PLAN**

SCALE: 1" = 20' SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	60
CONTRACT NO.			61G22	
ILLINOIS FED. AID PROJECT				

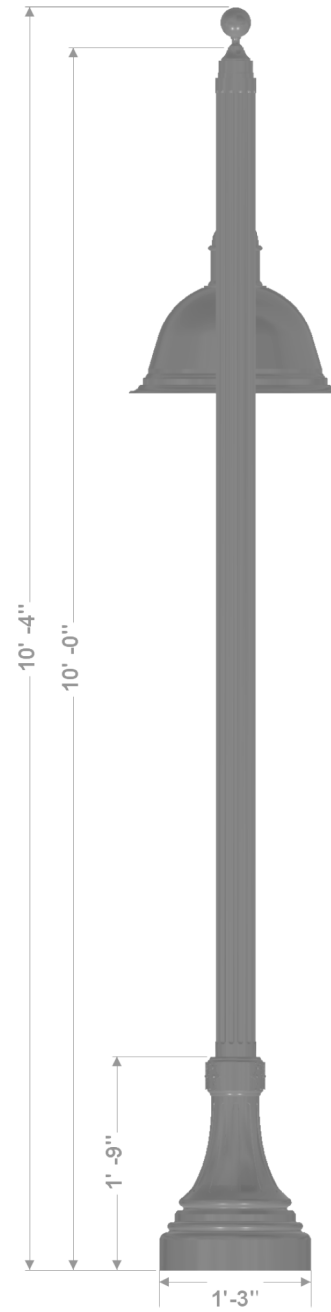
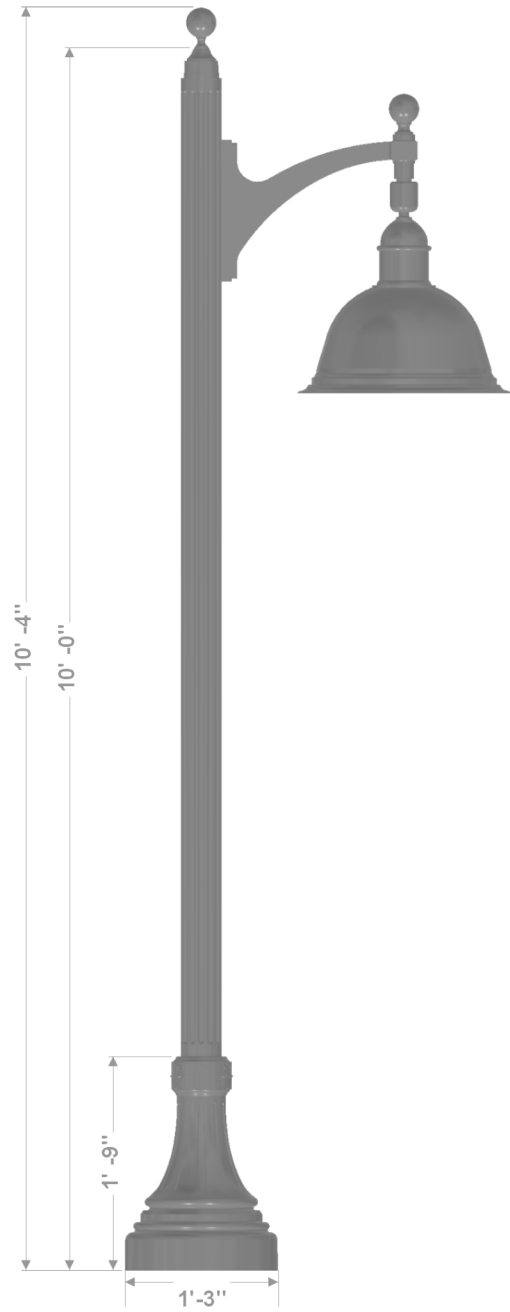
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Arms and Accessory	Orientation
480HPM	180

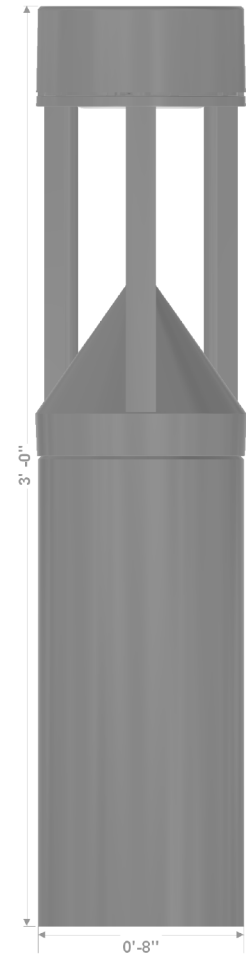


(4) 1/2" X 18" Anchor Bolts, 11-1/2" Bolt Circle, Diamond pattern

Access Door Orientation: 180°
 Street Side Orientation: 180°



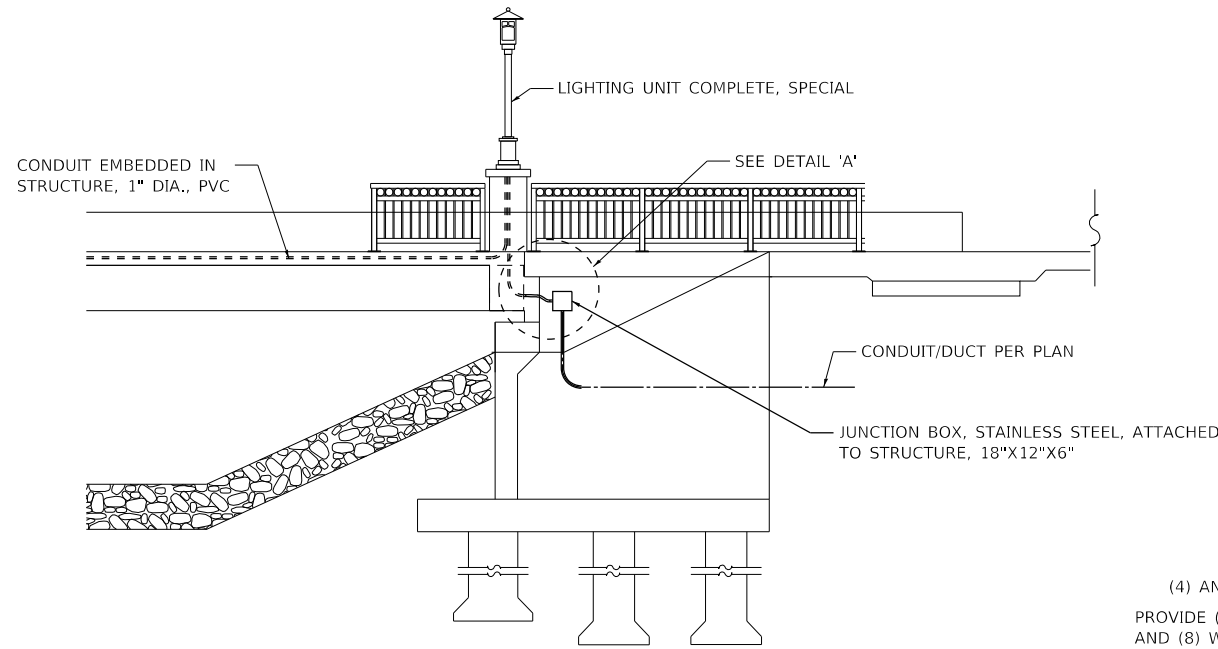
LIGHTING UNIT COMPLETE, SPECIAL



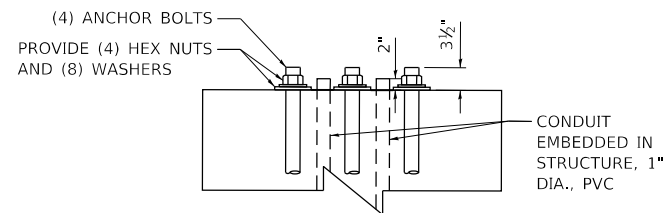
BOLLARD, LED

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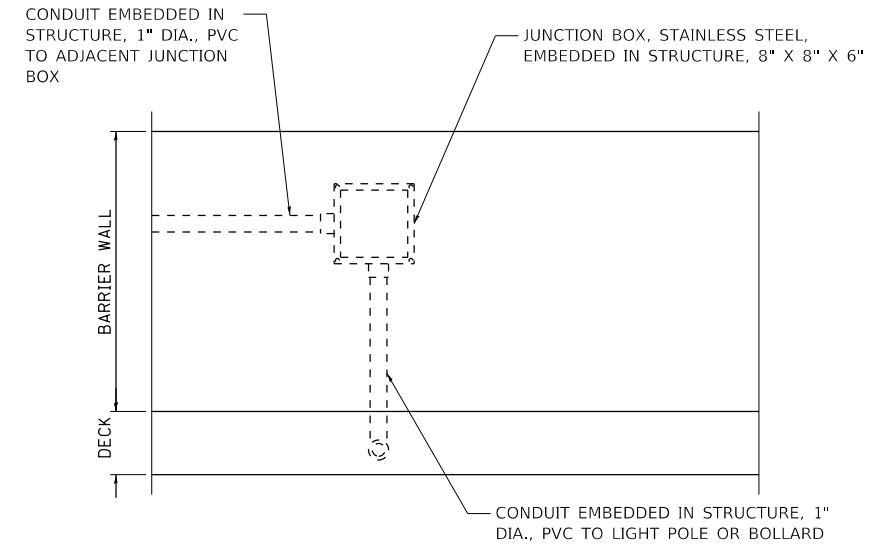
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1408	15-00129-00-BR	COOK	114	61
CONTRACT NO.			61G22	
ILLINOIS		FED. AID PROJECT		



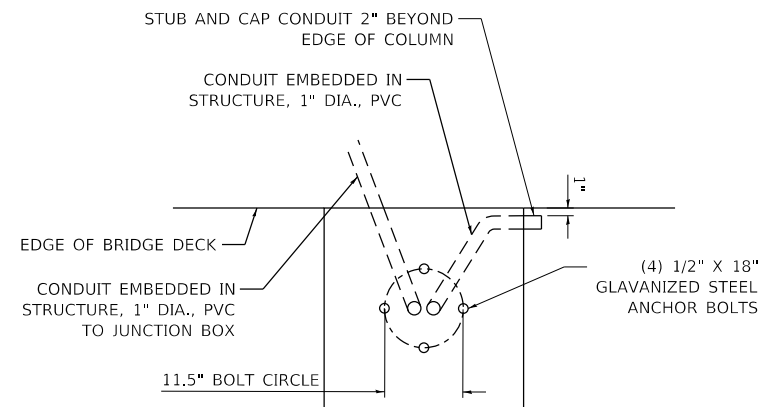
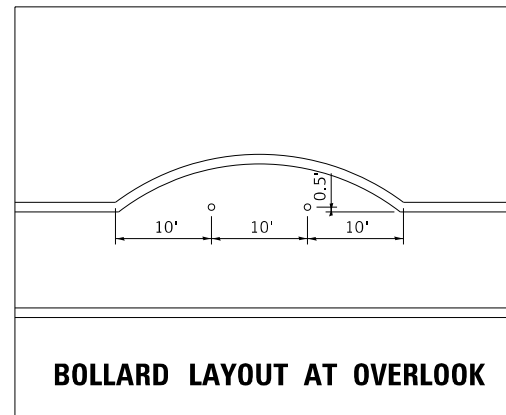
ELEVATION VIEW AT WEST ABUTMENT
(LOOKING SOUTH)



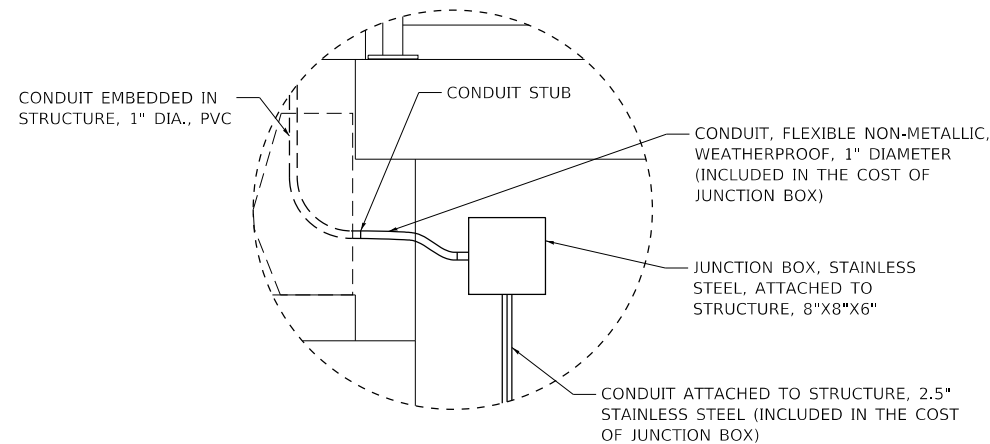
ELEVATION VIEW AT COLUMN
(NOT TO SCALE)



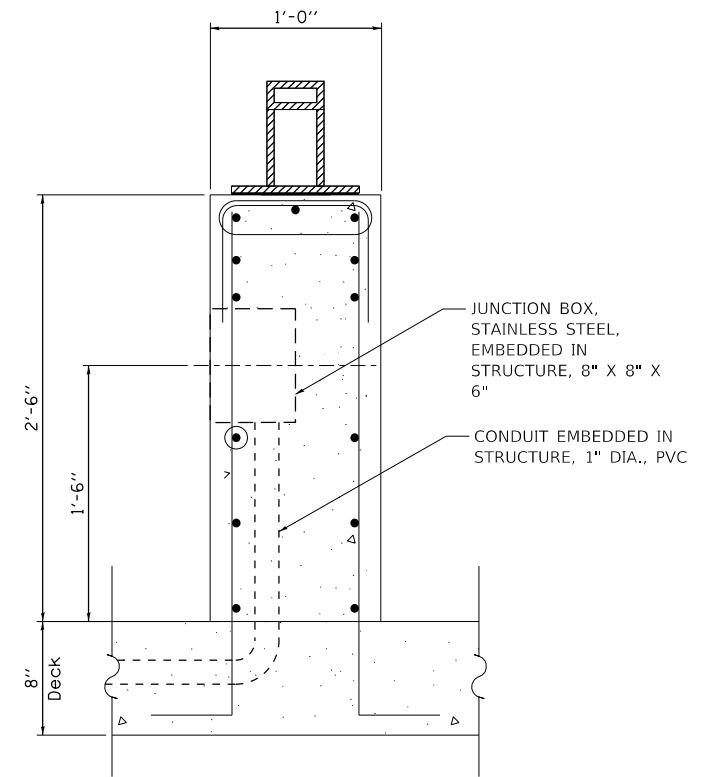
ELEVATION VIEW
(LOOKING NORTH)



PLAN VIEW AT COLUMN AT WEST ABUTMENT
(EAST ABUTMENT IS MIRRORED)



DETAIL 'A'

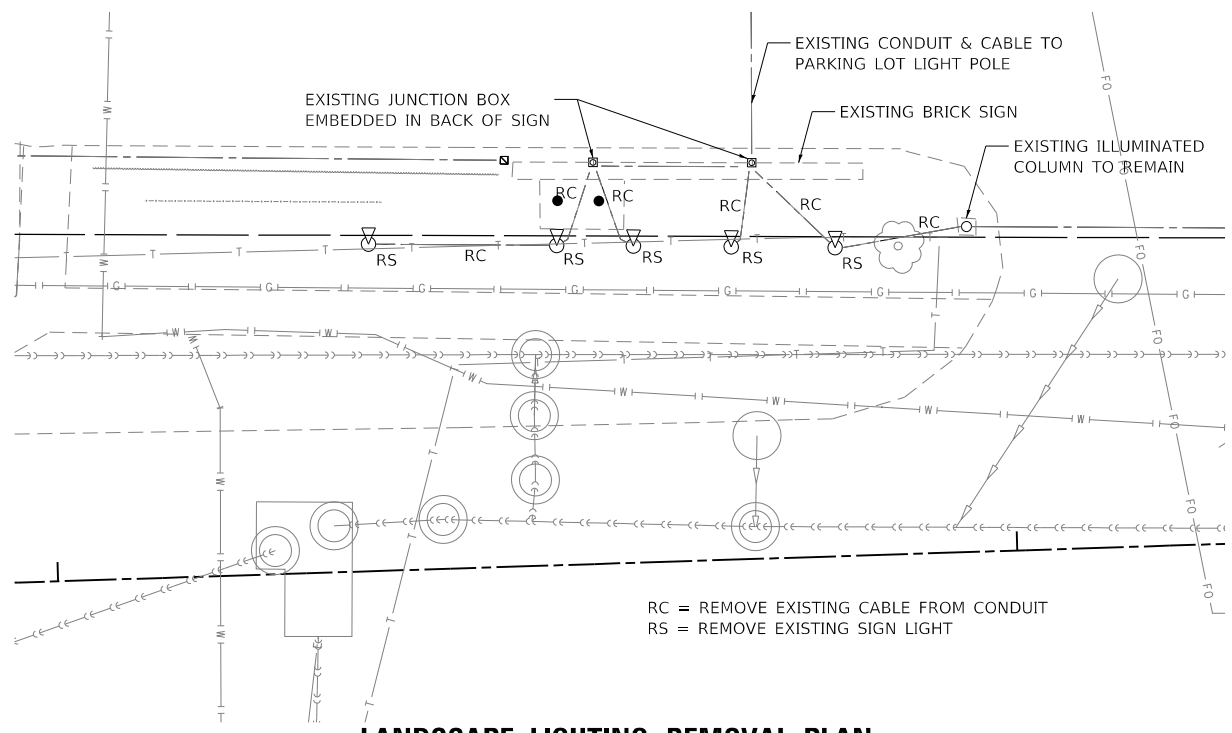


SECTION VIEW AT TRAFFIC BARRIER
(LOOKING EAST)

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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	62
CONTRACT NO.			61G22	
ILLINOIS FED. AID PROJECT				

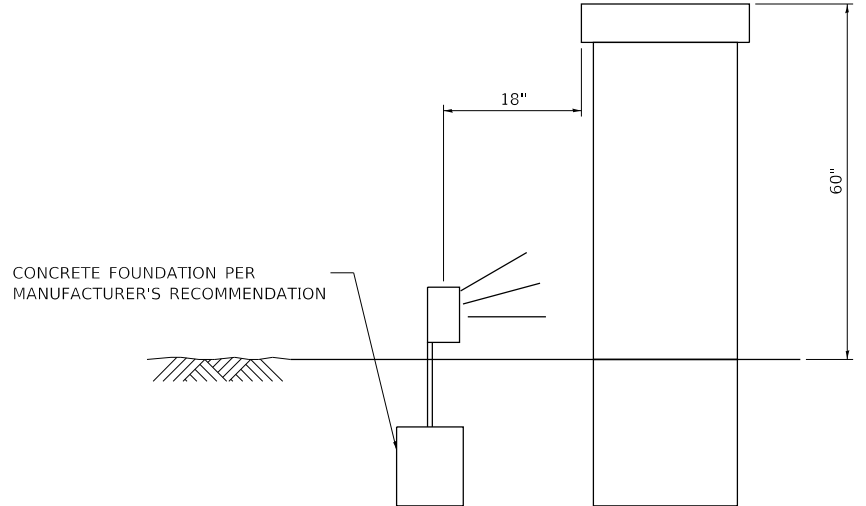


LANDSCAPE LIGHTING REMOVAL PLAN

1" = 10'

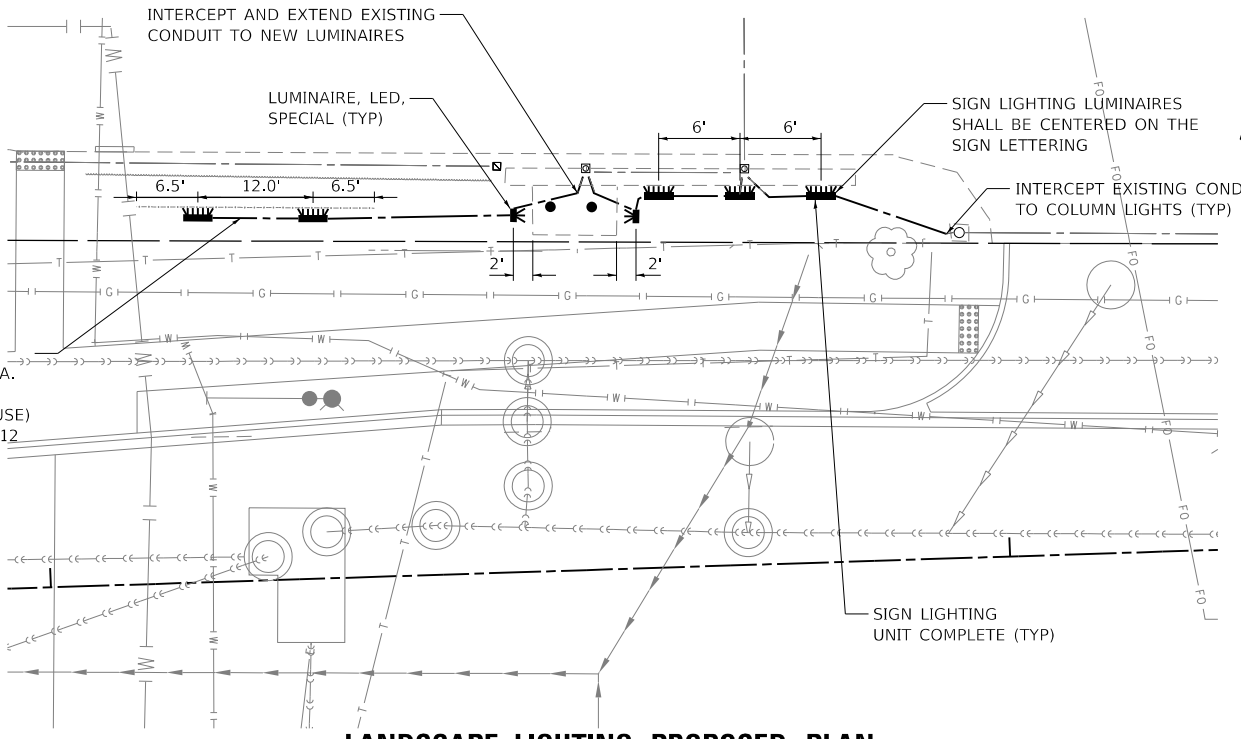
REMOVAL NOTES:

1. DISCONNECT EXISTING LANDSCAPE LIGHTING AT JUNCTION BOX EMBEDDED IN BRICK SIGN/BRICK COLUMN.
2. REMOVAL OF LUMINAIRES, FOUNDATION, JUNCTION BOXES, CABLE AND CONDUIT INCLUDED IN THE COST OF REMOVAL OF EXISTING SIGN LIGHTING UNIT AND SALVAGE.
3. THE CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE THE EXISTING CONDUIT NEAR THE EXISTING BRICK SIGN AND BRICK COLUMN, AS THEY WILL BE USED FOR THE PROPOSED LIGHTING SYSTEM.



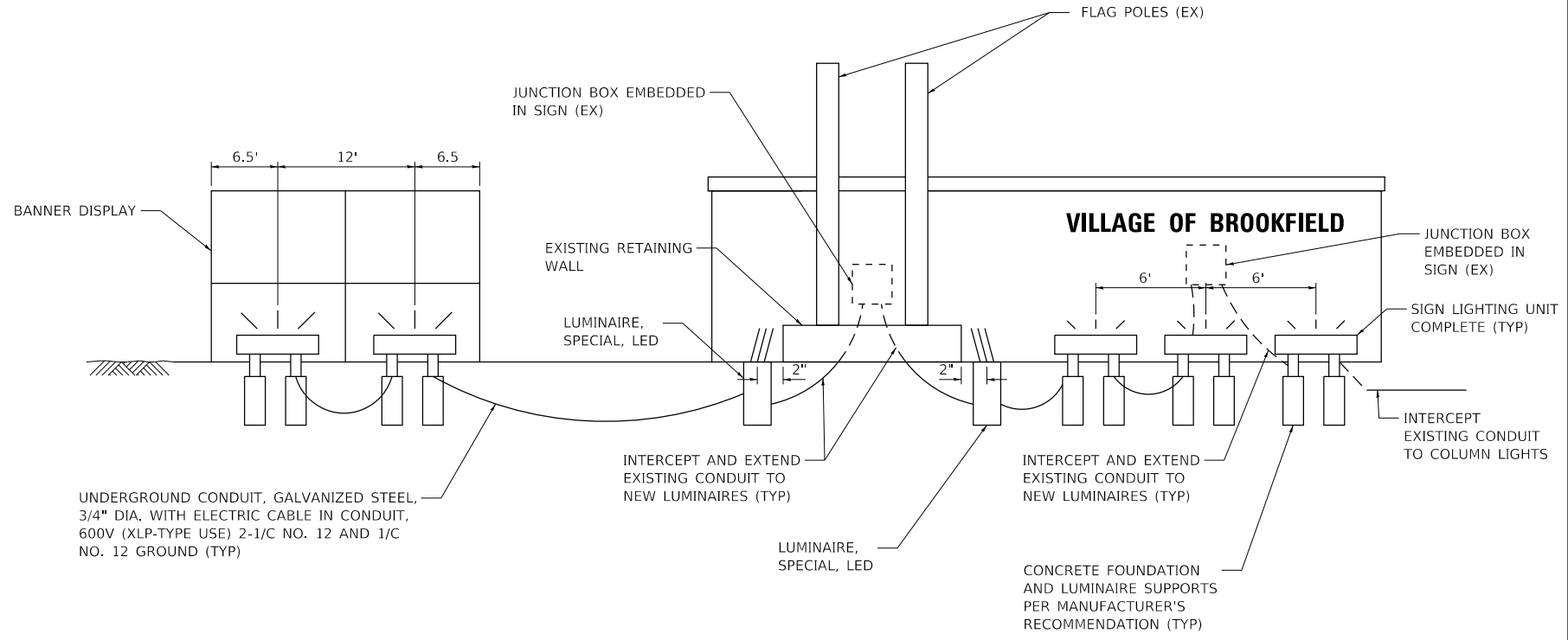
SECTION VIEW LANDSCAPE LIGHTING

(LOOKING WEST, NOT TO SCALE)



LANDSCAPE LIGHTING PROPOSED PLAN

1" = 10'



ELEVATION VIEW LANDSCAPE LIGHTING

(LOOKING NORTH, NOT TO SCALE)

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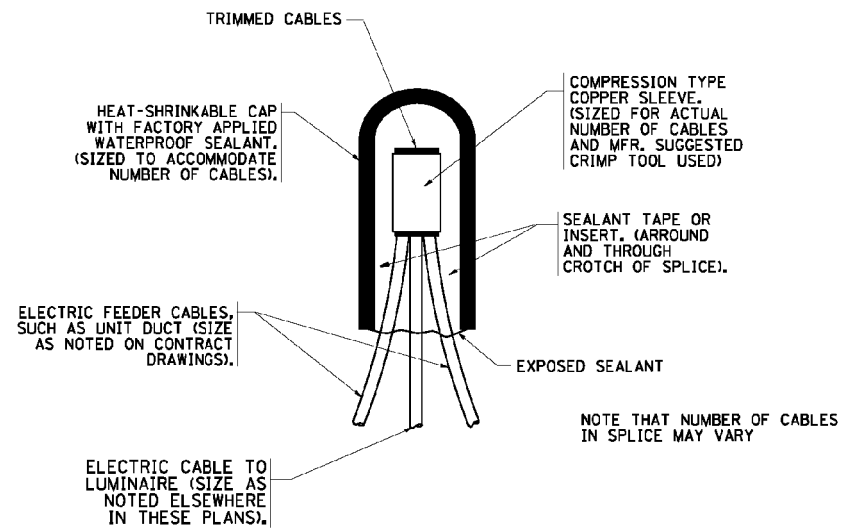
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

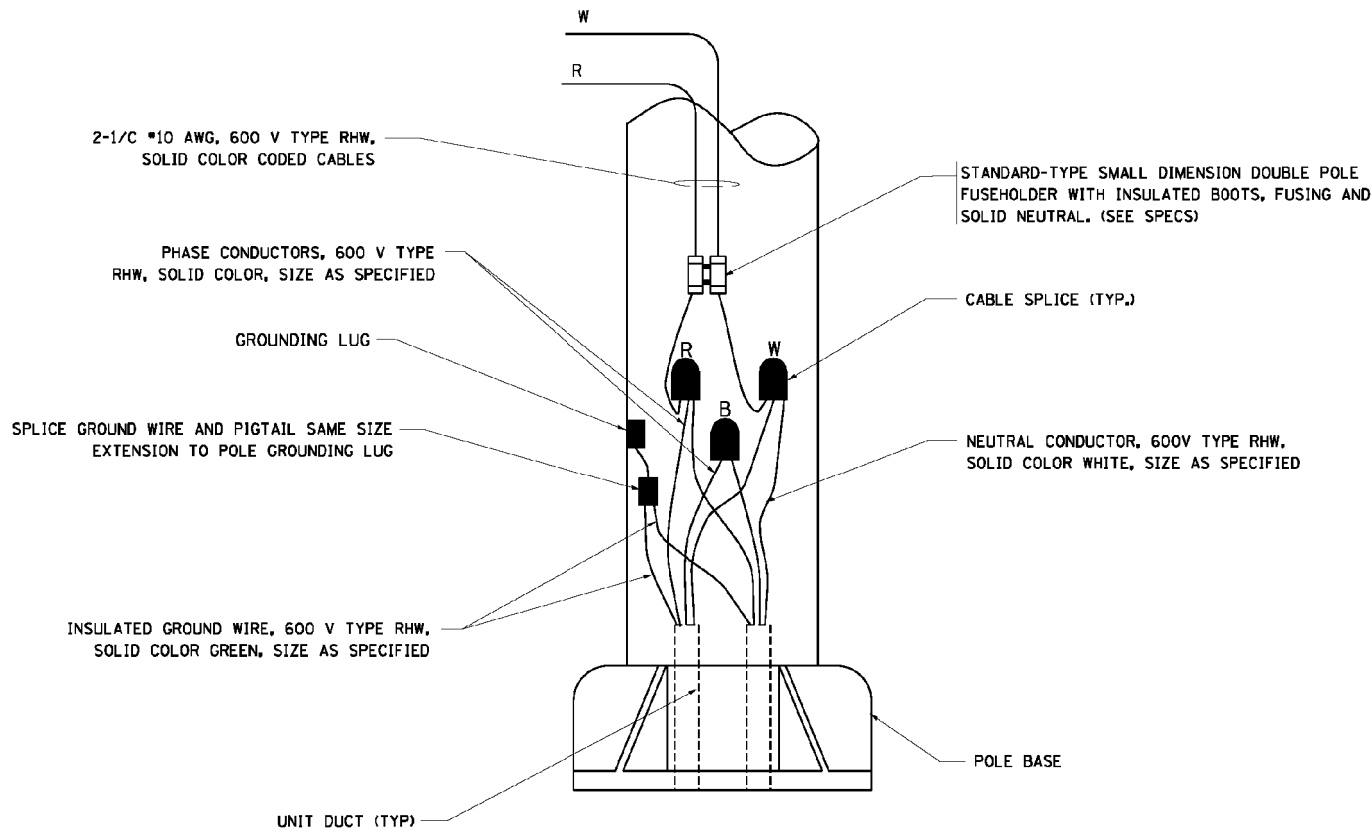
**BROOKFIELD AVE OVER SALT CREEK
LIGHTING DETAILS**

SCALE: N.T.S. SHEET 3 OF 5 SHEETS STA. TO STA.

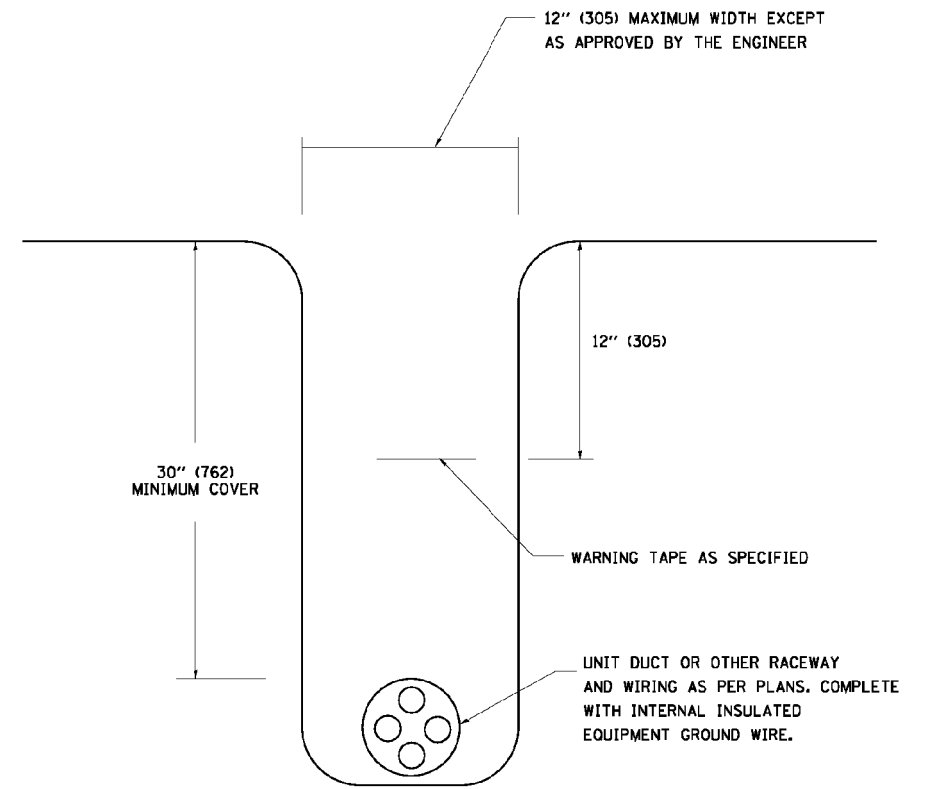
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	63
CONTRACT NO.			61G22	
ILLINOIS FED. AID PROJECT				



TYPICAL SPLICE DETAIL
N.T.S.



POLE WIRING DETAIL
N.T.S.

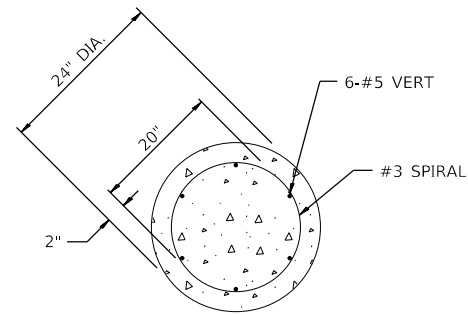


TYPICAL WIRING IN TRENCH DETAIL
N.T.S.

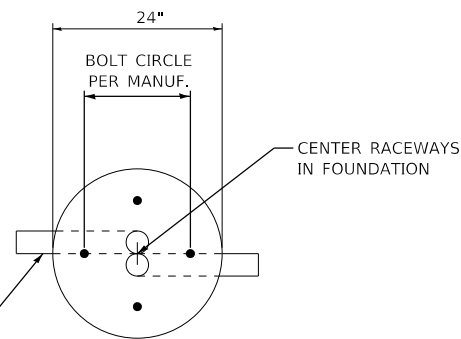
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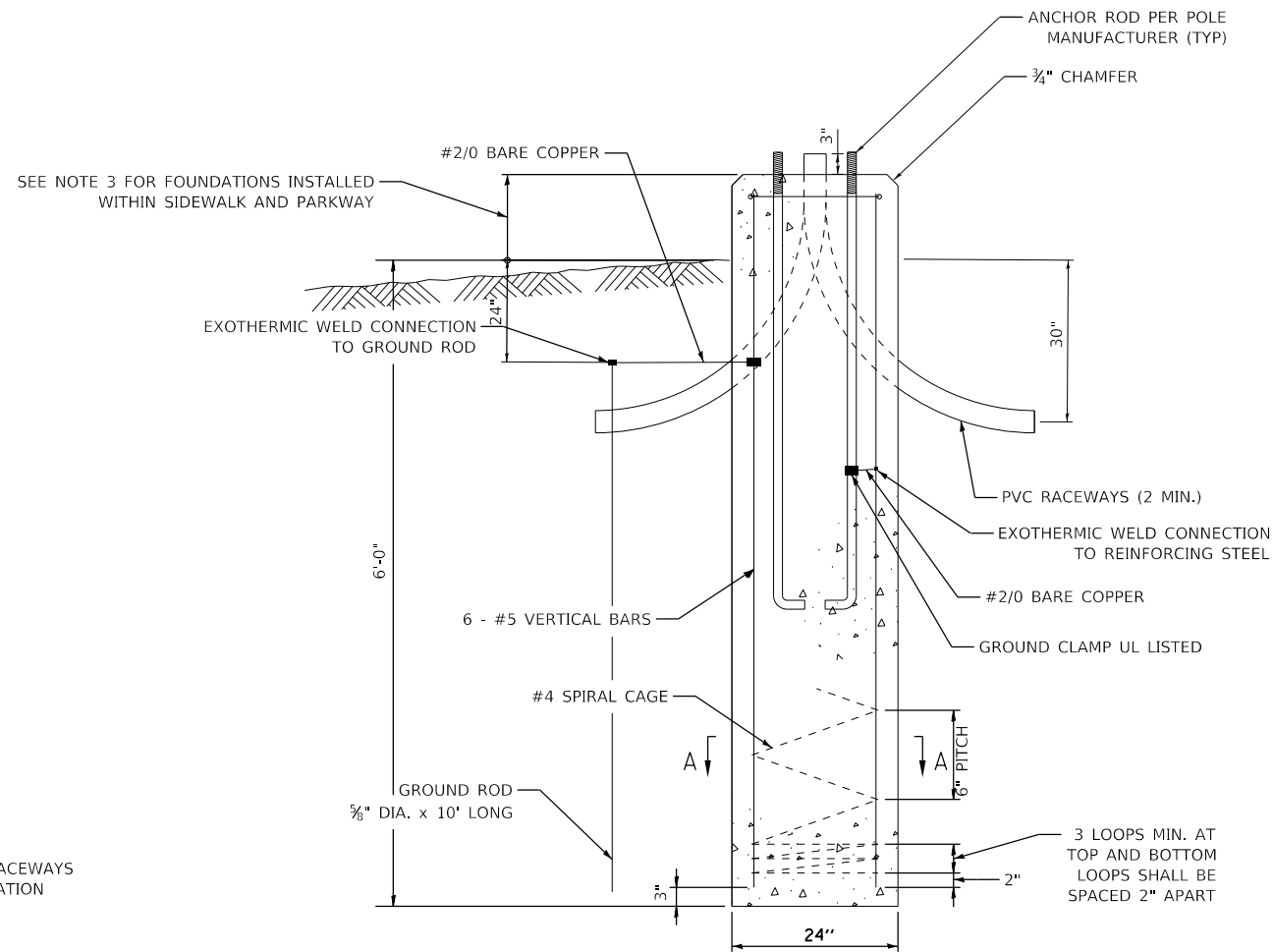
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1408	15-00129-00-BR	COOK	114	64
CONTRACT NO.			61G22	
ILLINOIS FED. AID PROJECT				



SECTION A-A



PLAN VIEW



ELEVATION VIEW

LIGHT POLE FOUNDATION, 24" DIAMETER

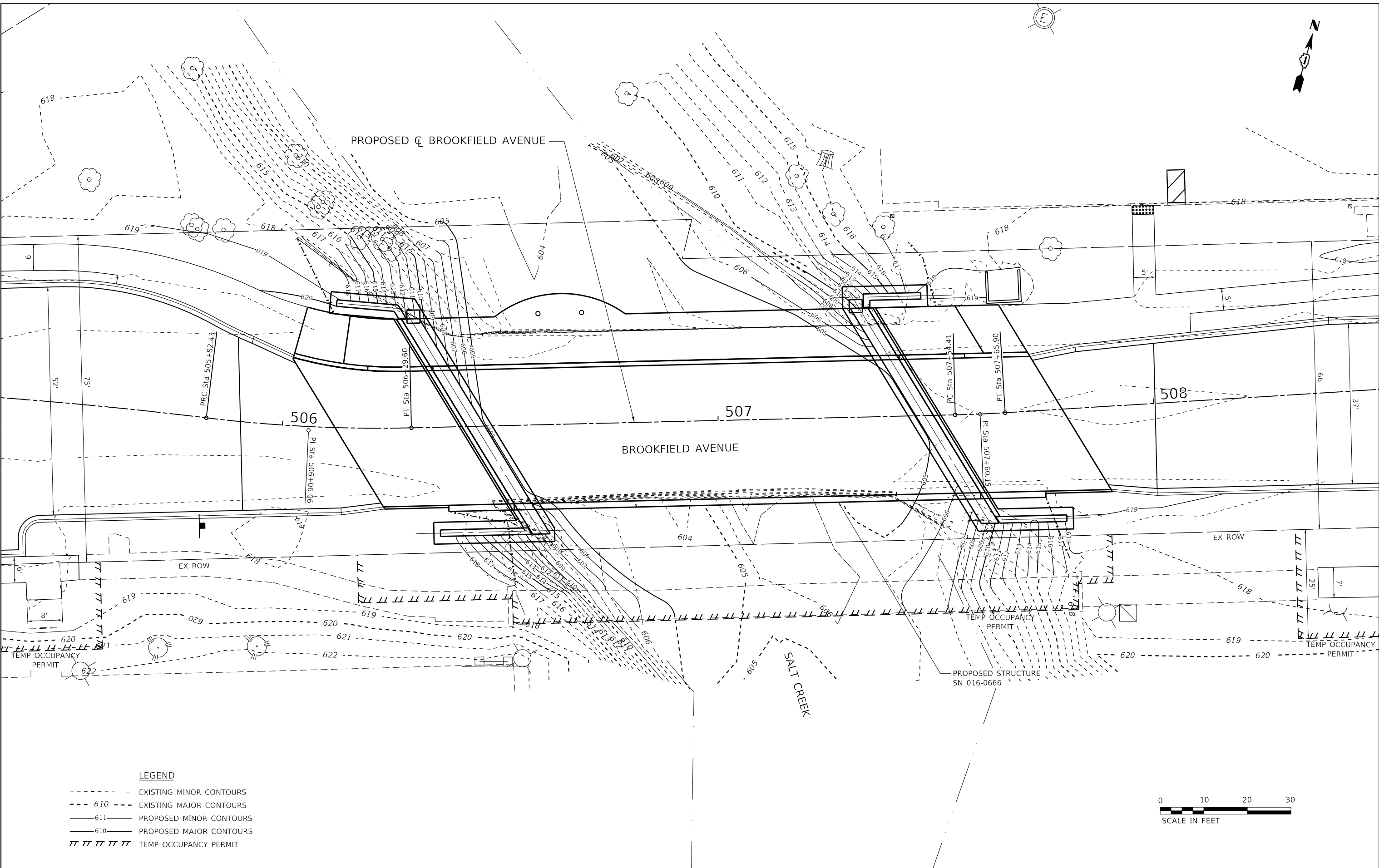
NOTES:

- 1.) ALL DIMENSIONS ARE SHOWN IN INCHES, UNLESS NOTED OTHERWISE.
- 2.) ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE PLACEMENT OF THE CONCRETE.
- 3.) FOUNDATIONS INSTALLED WITHIN SIDEWALK SHALL BE FLUSH WITH THE SURROUNDING SIDEWALK. THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 4" ABOVE THE FINISHED GRADE WITHIN A 60" CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- 4.) THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER OF THE SAME DIAMETER OF THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
- 5.) THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 3/4 INCH.
- 6.) THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE BEFORE LIGHT POLES ARE INSTALLED.
- 7.) THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN FOUR TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- 8.) THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F 1554 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- 9.) ANCHOR RODS, NUTS, AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER HOT-DIPPED PROCESS CONFORMING TO AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 6 MILS, OR THE ELECTROLYTIC PROCESS ACCORDING TO AASHTO F 1136.
- 10.) THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES WITH A MINIMUM OF 3 INCHES OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- 11.) THE CONTRACTOR SHALL COORDINATE THE ANCHOR ROD PROJECTION WITH POLE MANUFACTURER INSTALLATION REQUIREMENTS.
- 12.) THE CONTRACTOR SHALL USE A #4 SPIRAL AT 6" PITCH OR MAY SUBSTITUTE #4 TIES AT 12" ON CENTER WITH APPROVAL OF THE ENGINEER.
- 13.) THE CABLE TRENCHES AND FOUNDATIONS SHALL BE BACKFILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- 14.) THE RACEWAYS SHALL PROJECT 1" ABOVE THE TOP OF THE FOUNDATION.
- 15.) THE CONTRACTOR SHALL VERIFY THE ANCHOR BOLT DIMENSIONS AND THE BOLT CIRCLE WITH THE LIGHT POLE MANUFACTURER.
- 16.) ALL RACEWAYS SHALL BE SEALED TO PREVENT DEBRIS AND MOISTURE FROM ENTERING.

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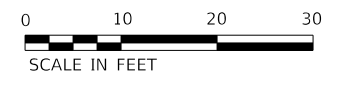
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	65
CONTRACT NO.			61G22	
ILLINOIS FED. AID PROJECT				



LEGEND

- EXISTING MINOR CONTOURS
- - - 610 --- EXISTING MAJOR CONTOURS
- - - 611 --- PROPOSED MINOR CONTOURS
- 610 --- PROPOSED MAJOR CONTOURS
- ||||| TEMP OCCUPANCY PERMIT



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DESIGNED -	EPS	REVISED -	
DRAWN -	MLD	REVISED -	
CHECKED -	DJO	REVISED -	
DATE -	10/5/2020	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BROOKFIELD AVE OVER SALT CREEK
GRADING PLAN**

SCALE: 1" = 10' SHEET 1 OF 1 SHEETS STA. 505+50 TO STA. 508+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	66
CONTRACT NO.			61G22	

ILLINOIS FED. AID PROJECT

Bench Mark: NW Fire Hydrant, Bonner Bolt Elev. 620.13

Existing Structure: S.N. 016-6665 was originally built in 1916 with superstructure replacement occurring in 1986. The existing structure is a two-span precast prestressed concrete deck beam superstructure with tall wall concrete abutments and a single interior pier on spread footing with wing walls. The existing structure had an overall length of 96'-0" Bk. to Bk. of abutments and out to out width of 37'-7". Brookfield Avenue is to be closed with detour during construction.

No Salvage.

DESIGN SCOUR ELEVATION TABLE

Event/Limit State	Design Scour Elevation (ft.)		Item 113
	W. Abut.	E. Abut.	
Q100	588.91	587.78	5
Q200	587.67	586.72	
Design	588.91	587.78	
Check	587.67	586.72	

WATERWAY INFORMATION

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. Head - Ft.		Headwater El.		
			Exist.	Prop.	H.W.E. Exist.	H.W.E. Prop.	Exist.	Prop.	
Design	30	2432	830.1	1168.7	614.58	0.2	0.1	613.47	613.41
Base	100	3400	919.6	1290.5	615.72	0.3	0.1	616.00	615.85
Overtopping									
Max. Calc.	500	4920	891.5	1310.4	617.20	0.8	0.4	617.97	617.56

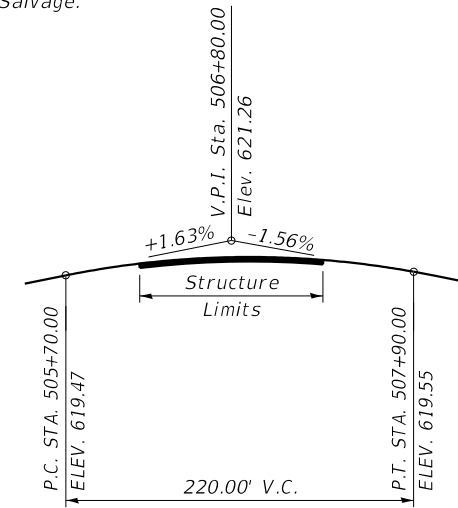
2-yr flow = 110 CFS



DATE: 09/11/20
SEAL EXPIRES: 11/30/2020

[Signature]

I certify that to the best of my knowledge, information, and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with the requirements of the "AASHTO LRFD Bridge Design Specifications," 8th Edition.



PROFILE GRADE
(Along Brookfield Ave.)

DESIGN STRESSES

FIELD UNITS
 f'c = 4,000 psi (Superstructure)
 f'c = 3,500 psi (Substructure)
 fy = 60,000 psi (Reinforcement)

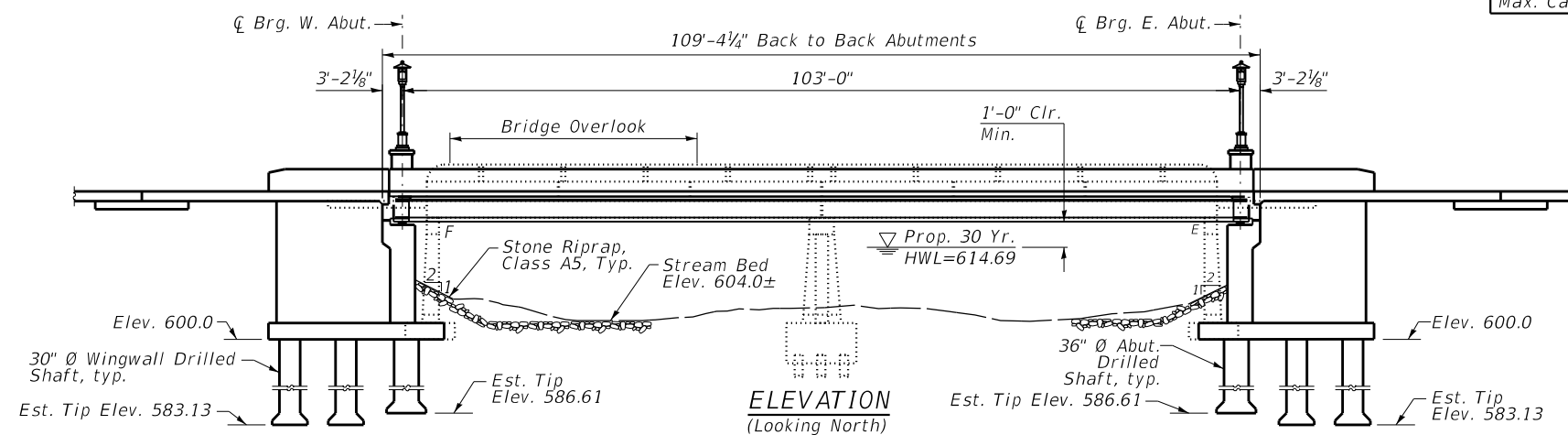
PRECAST PRESTRESSED UNITS
 f'ci = 7,000 psi
 f'c = 8,500 psi
 fpu = 270,000 psi (0.6" Ø Low Lax Strands)
 fpbt = 202,500 psi

LOADING HL-93

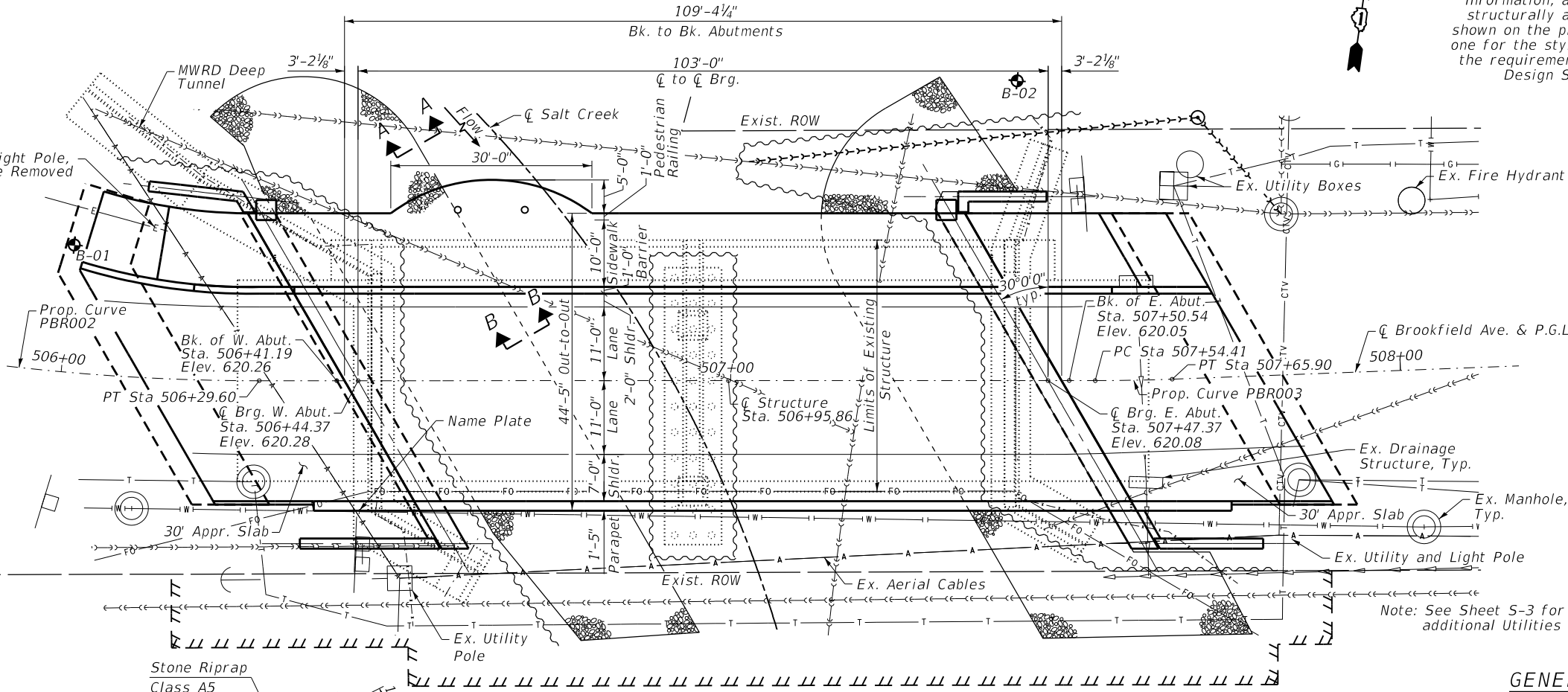
Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

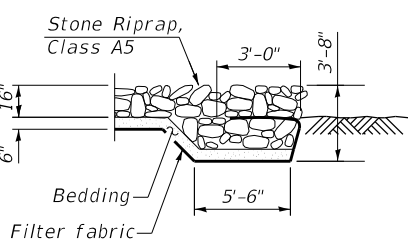
2017 AASHTO LRFD Bridge Design Specifications, 8th Edition
 Illinois Department of Transportation Bridge Manual, January 2012
 IDOT All Bridge Designers Memorandums



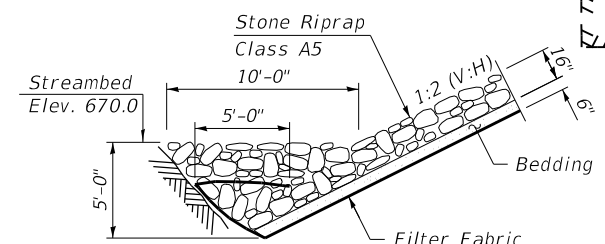
ELEVATION
(Looking North)



PLAN



SECTION A-A



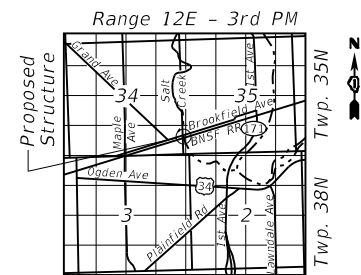
SECTION B-B

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
 Design Spectral Acceleration at 1.0 sec. (SD1) = 0.072g
 Design Spectral Acceleration at 0.2 sec. (SDS) = 0.116g
 Soil Site Class = C

LEGEND

- Proposed Storm Sewer
- A — Ex. Aerial Cable
- Ex. Right of Way
- TTT TTT TTT TTT Temporary Occupancy Permit
- ~~~~ Cofferdam
- ◆ Soil Boring



LOCATION SKETCH

GENERAL PLAN AND ELEVATION

BROOKFIELD AVENUE
OVER SALT CREEK
SECTION 15-00129-00-BR
COOK COUNTY
STATION 506+95.86
S.N. 016-6666

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET 5-1 OF 5-35 SHEETS

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	67
CONTRACT NO. 61G22				

ILLINOIS FED. AID PROJECT

GENERAL NOTES

- Reinforcement bars designated (E) shall be epoxy coated.
- If the contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.03(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.
- Slip forming of parapets will not be allowed.
- Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- The Contractor shall obtain a construction permit from the Illinois Department of Natural Resources (IDNR), Office of Water Resources for any temporary construction activity placed in the water except cofferdams. This shall include the placement of materials for run-arounds, causeways, etc. Any permit application by the Contractor shall refer to the IDNR 3704 Floodway Construction permit number allowing permanent construction as shown in the contract plans.
- If a portion of the drilled shaft web walls or concrete encasement is under water, reinforcement may be placed underwater into forms. Concrete shall be tremied according to Article 503.08 of the Standard Specifications to an elevation of 1'-0" above the water line at the time of construction.
- Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure.

INDEX OF SHEETS

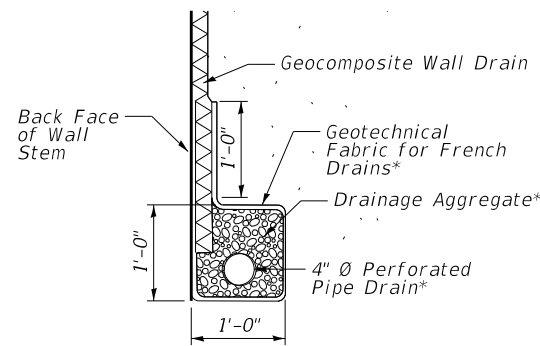
- S-1 General Plan & Elevation
- S-2 General Notes, Bill of Material & Index of Sheets
- S-3 Substructure Layout
- S-4 Structure Removal Details 1
- S-5 Structure Removal Details 2
- S-6 Top of Deck Elevations 1
- S-7 Top of Deck Elevations 2
- S-8 Top of Deck Elevations 3
- S-9 Top of West Approach Slab Elevations
- S-10 Top of East Approach Slab Elevations
- S-11 Deck Plan and Cross Section
- S-12 Pedestrian Overlook Details
- S-13 Superstructure Details 1
- S-14 Superstructure Details 2
- S-15 Superstructure Details 3
- S-16 West Approach Slab Details
- S-17 East Approach Slab Details
- S-18 Bridge Approach Slab Details 1
- S-19 Bridge Approach Slab Details 2
- S-20 Traffic Barrier Details
- S-21 Parapet Railing Details
- S-22 Pedestrian Rail Details
- S-23 Framing Plan
- S-24 Beam Details 1
- S-25 Beam Details 2
- S-26 Bearing Details
- S-27 West Abutment
- S-28 East Abutment
- S-29 Abutment Details
- S-30 West Wingwalls
- S-31 East Wingwalls
- S-32 Wingwall Details
- S-33 Drilled Shaft Details
- S-34 Soil Boring 1
- S-35 Soil Boring 2

BROOKFIELD AVENUE
BUILT 20__ BY
VILLAGE OF BROOKFIELD
STATION 506+95.86
STR. NO. 016-6666
LOADING HL-93

NAME PLATE
(See Std. 515.01)

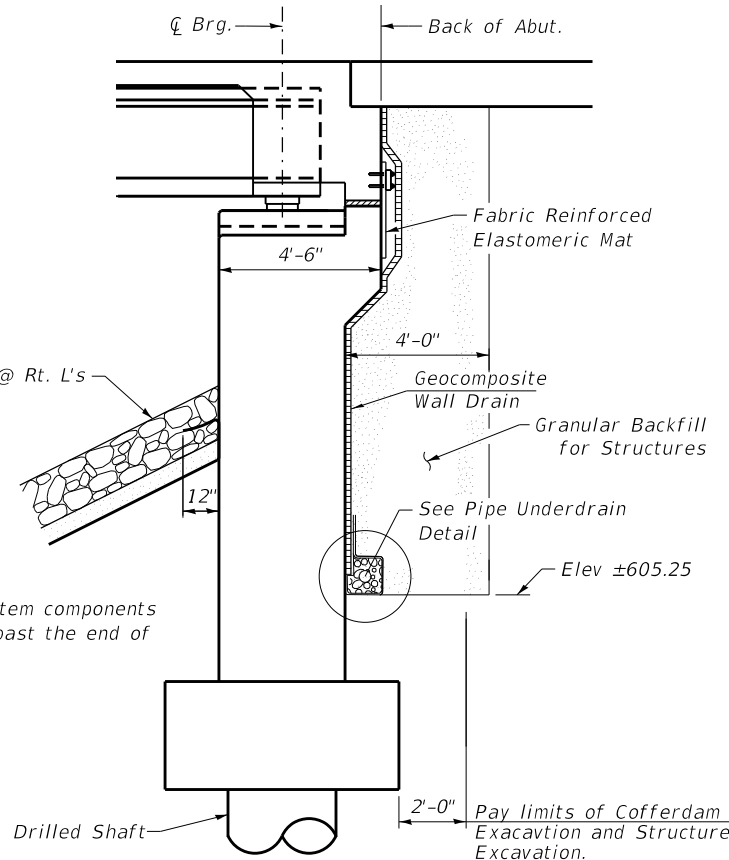
CURVE DATA

Prop. Curve: PBR002	PROP. CURVE PBR003
$\Delta = 8^\circ 18' 58''$ (LT)	$\Delta = 2^\circ 06' 37''$ (LT)
$D = 17^\circ 37' 46''$	$D = 19^\circ 05' 55''$
$T = 23.63'$	$T = 5.53'$
$L = 47.17'$	$L = 11.05'$
$E = 0.86'$	$E = 0.05'$
$R = 325.00'$	$R = 300.00'$
P.C. = Sta. 505+82.43	P.C. STA. = 507+46.92
P.T. = Sta. 506+29.60	P.T. STA. = 507+57.97
P.I. = Sta. 506+06.06	P.I. STA. = 507+52.45



PIPE UNDERDRAIN DETAIL

* Included in the cost of Pipe Underdrains for Structures



SECTION THRU ABUTMENT

Not centered horizontally (typ.)

TOTAL BILL OF MATERIAL

ITEM	DESCRIPTION	UNIT	SP	SUB	SUPER	TOTAL
28100109	Stone Riprap, Class A5	Sq Yd		446		446
28200200	Filter Fabric	Sq Yd		446		446
50100100	Removal Of Existing Structures	Each		0.5	0.5	1
50200100	Structure Excavation	Cu Yd		410.0		410.0
50200300	Cofferdam Excavation	Cu Yd		1,097.0		1,097.0
50201121	Cofferdam (Type 2) (Location - 1)	Each		1		1
50300225	Concrete Structures	Cu Yd		421.5		421.5
50300255	Concrete Superstructure	Cu Yd			214.5	214.5
50300260	Bridge Deck Grooving	Sq Yd			539	539
50300285	Form Liner Textured Surface	Sq Ft			105	105
50300300	Protective Coat	Sq Yd			933	933
50301350	Concrete Superstructure (Approach Slab)	Cu Yd			123.9	123.9
50401310	Furnishing And Erecting Precast Prestressed Concrete Beams, 1136	Foot			835	835
50800105	Reinforcement Bars	Pound		14,440		14,440
50800205	Reinforcement Bars, Epoxy Coated	Pound		21,860	45,150	67,010
50900805	Pedestrian Railing	Foot			158	158
50901750	Parapet Railing	Foot			138	138
51500100	Name Plates	Each			1	1
51603000	Drilled Shaft In Soil	Cu Yd		102.4		102.4
52100010	Elastomeric Bearing Assembly, Type I	Each			8	8
52100520	Anchor Bolts, 1"	Each			48	48
58600101	Granular Backfill For Structures	Cu Yd		428		428
59100100	Geocomposite Wall Drain	Sq Yd		261		261
X0320051	Crosshole Sonic Logging Access Ducts	Foot		324		324
X0320052	Crosshole Sonic Logging Testing	Each		4		4
X0900075	Cofferdam (Type 1) (In-Stream/Wetland Work)	Each		2		2
XX008490	Form Liner Coloration (Special)	Sq Ft			60	60
Z0046304	Pipe Underdrains For Structures 4"	Foot		198		198

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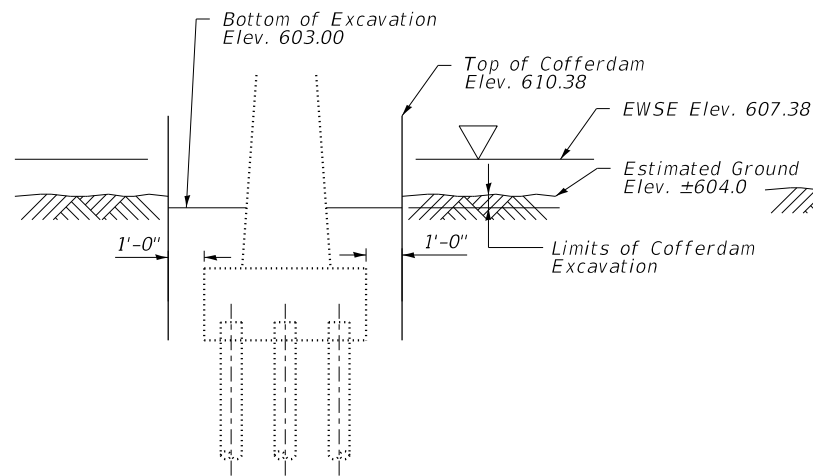
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

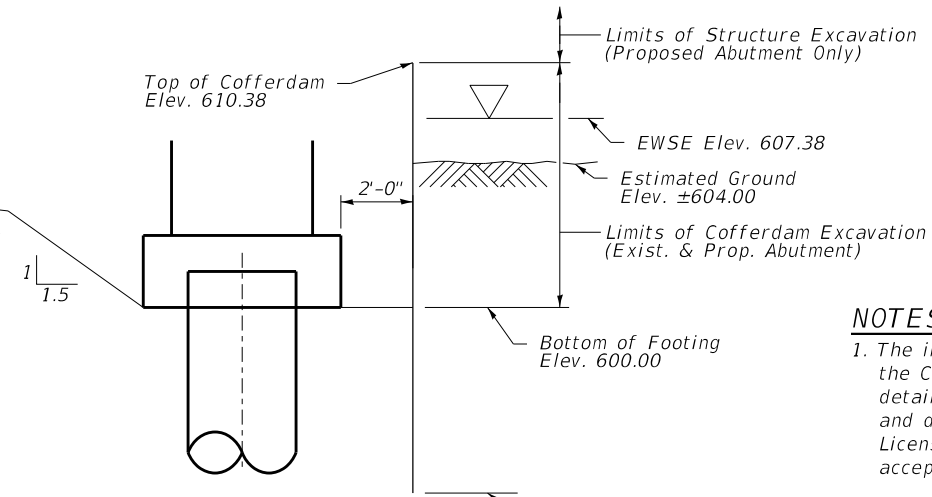
**GENERAL NOTES, BILL OF MATERIAL & INDEX OF SHEETS
STRUCTURE NO. 016-6666**

SHEET 5-2 OF 5-35 SHEETS

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	68
CONTRACT NO.			61G22	
ILLINOIS		FED. AID PROJECT		



**SCHEMATIC COFFERDAM SECTION
FOR EXISTING FOOTING**



**SCHEMATIC COFFERDAM SECTION
FOR ABUTMENT**

NOTES:

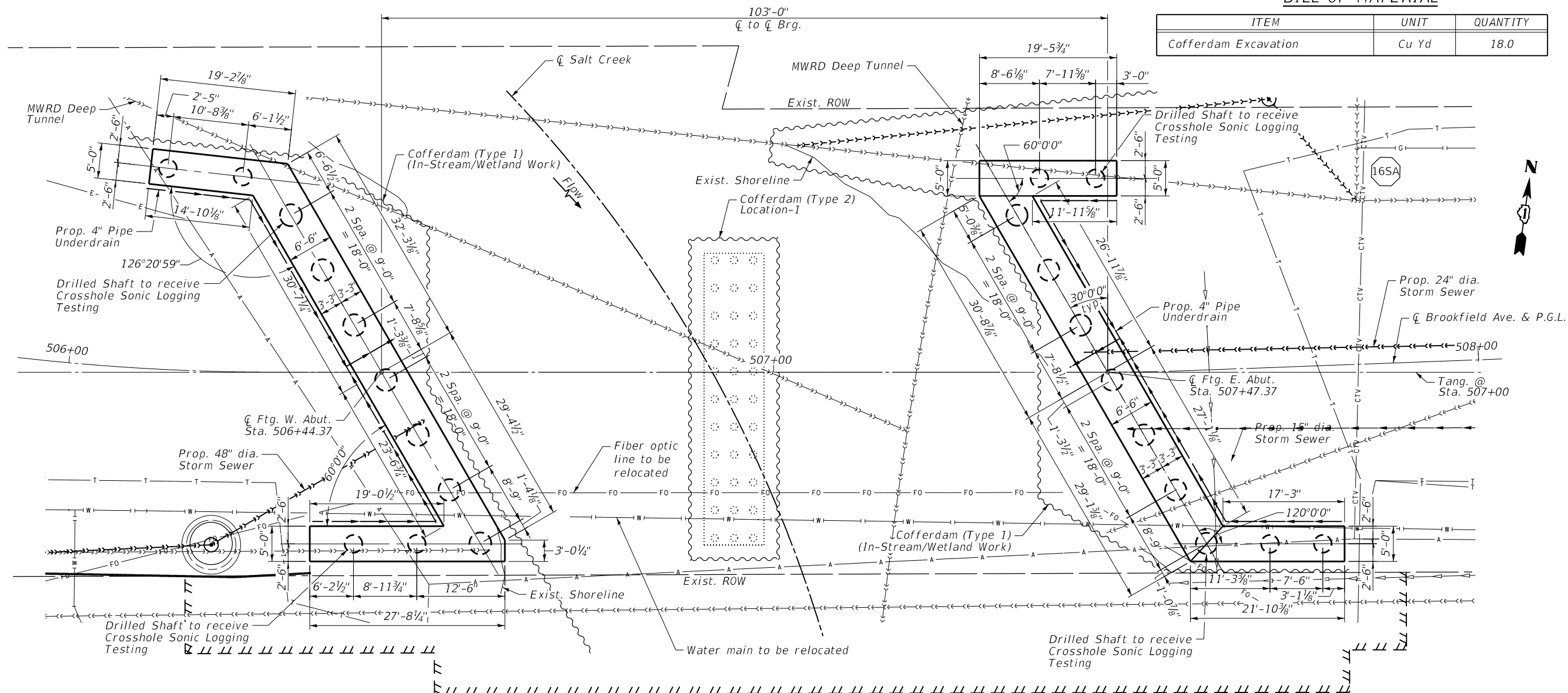
- The information shown for Cofferdams is estimated. It is the CONTRACTOR's responsibility to provide a design and details for each Cofferdam, complete with calculations and drawings, signed and sealed by an Illinois Licensed Structural ENGINEER, for the CM's review and acceptance before starting work.
- Hard driving may be encountered during the Sheet Piling installation. The CONTRACTOR shall provide the appropriate driving equipment for the soil conditions indicated in the boring logs.

LEGEND

- Ex. Underground Storm Sewer
- Pr. Underground Storm Sewer
- >>>>— Ex. Underground Combined Sewer
- >>>>— Pr. Storm Sewer
- W— Ex. Underground Water Line
- A— Ex. Aerial Cable
- FO— Ex. Underground Fiber Optic Line
- CTV— Ex. Underground Cable TV Lines
- T— Ex. Underground Telephone Cable
- G— Ex. Gas Line
- E— Ex. Electric Line
- - - - - Ex. Chain Link Fence
- — — — — Ex. Right of Way
- ||||| Temporary Occupancy Permit
- ~~~~~ Cofferdam
- 2'-6" Ø Caisson with 3'-6" Ø Bell
- 3'-0" Ø Caisson with 6'-3" Ø Bell

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Cofferdam Excavation	Cu Yd	18.0



FOUNDATION AND UTILITY PLAN

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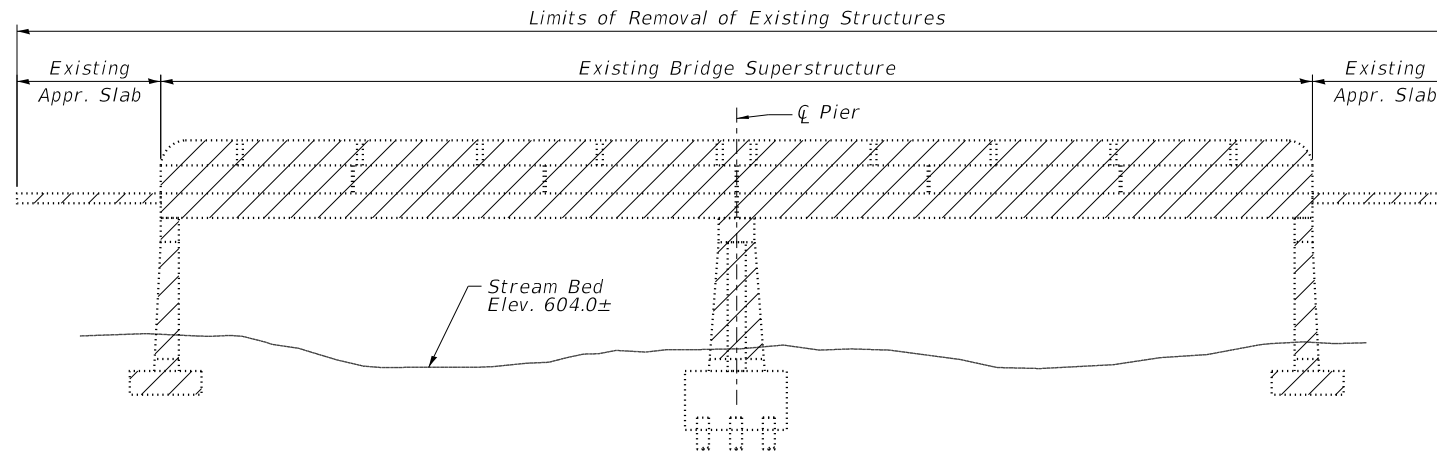
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

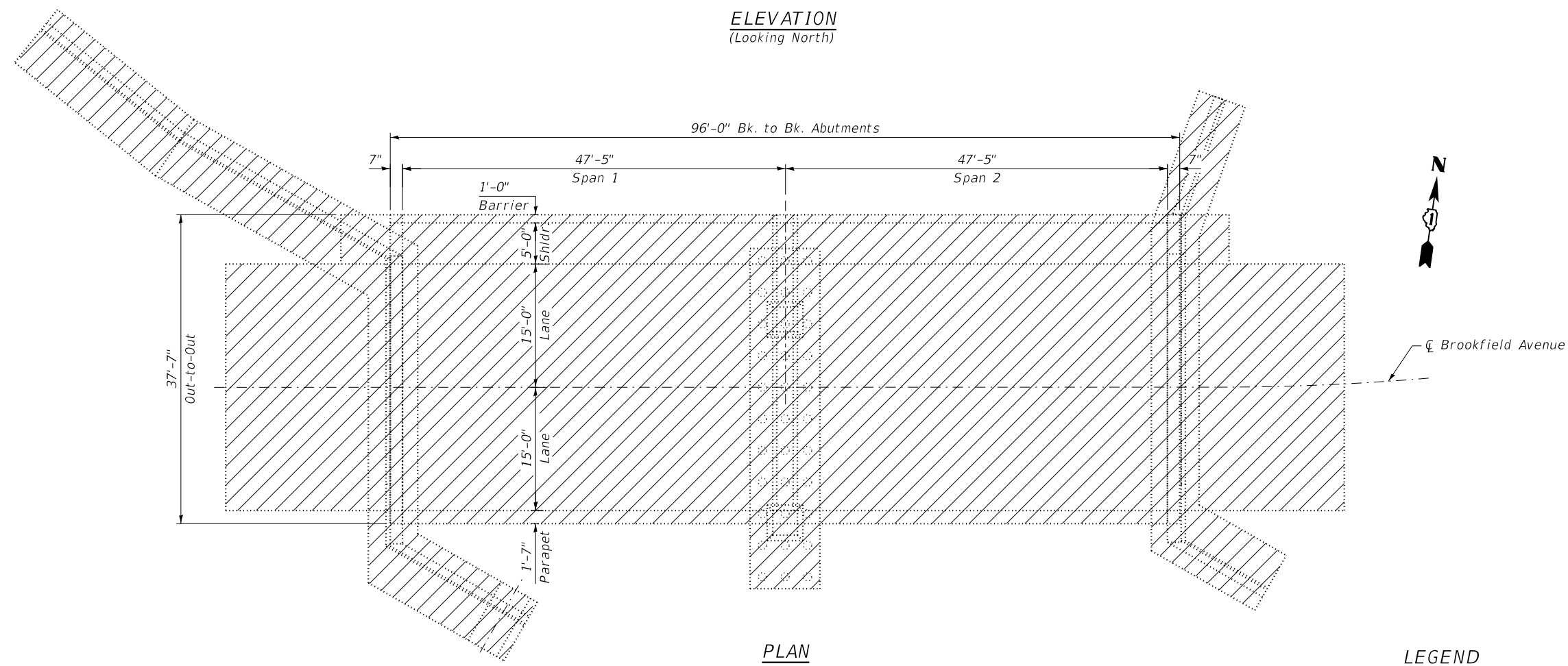
**SUBSTRUCTURE LAYOUT
STRUCTURE NO. 016-6666**

SHEET 5-3 OF 5-35 SHEETS

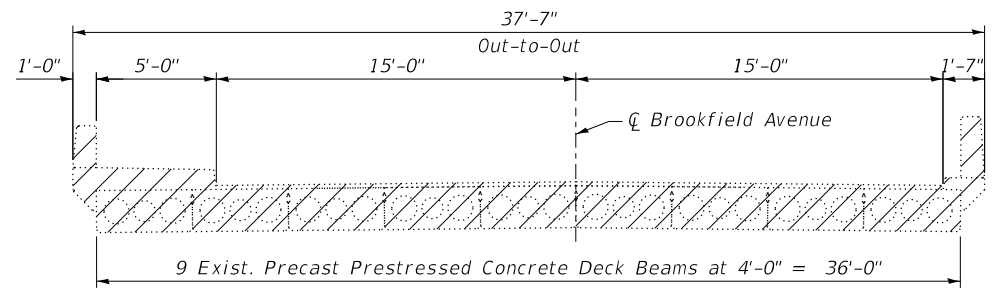
FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	69
CONTRACT NO. 61G22			ILLINOIS FED. AID PROJECT	



ELEVATION
(Looking North)



PLAN



EXISTING CROSS SECTION

LEGEND

Existing Structure Removal

NOTES:

1. Dimensions shown are taken from existing plans and are included for information only.
2. See sheet S-5 for additional removal details.
3. Removal of railing included with Removal of Existing Structures.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Removal Of Existing Structures	Each	1

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

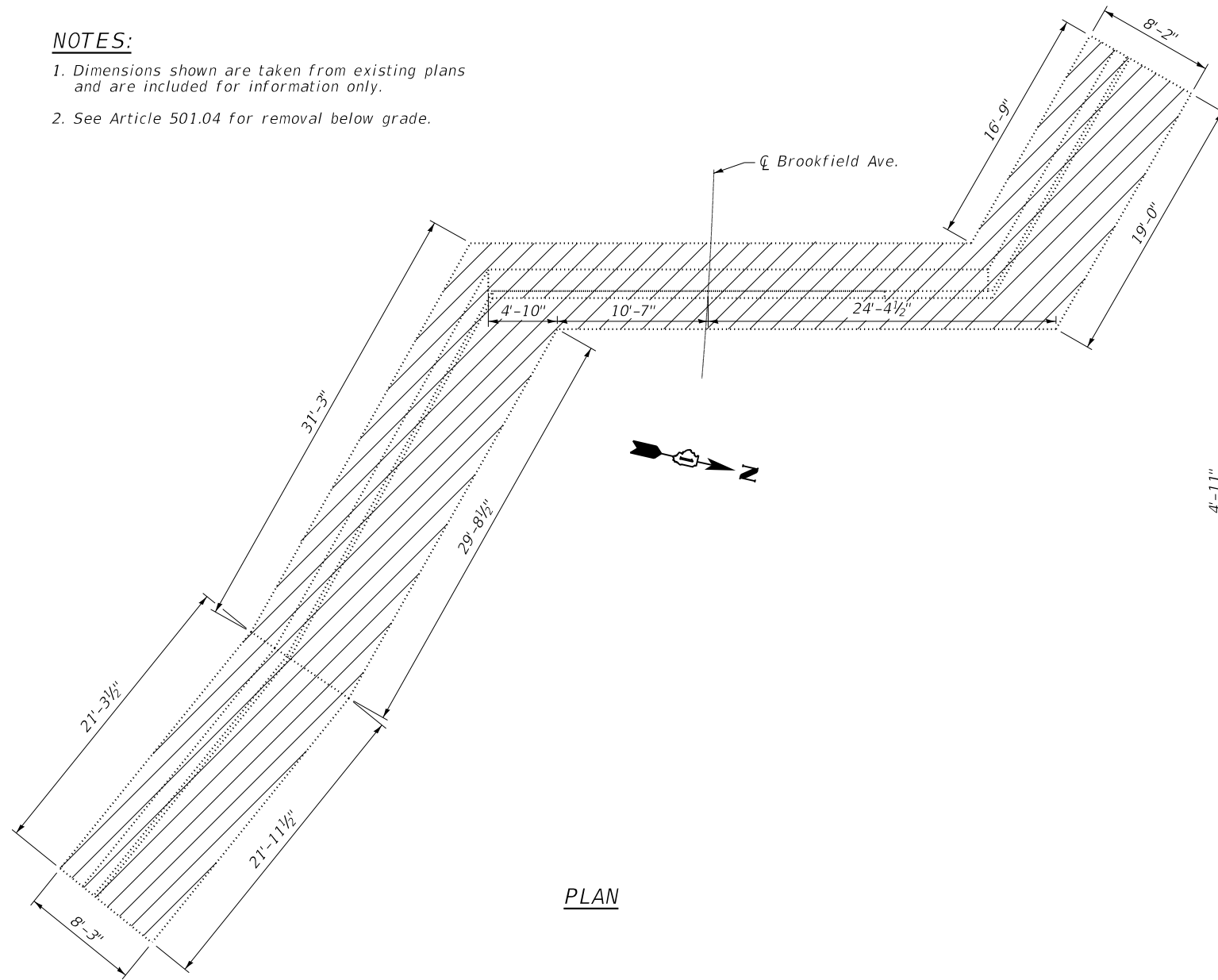
**STRUCTURE REMOVAL DETAILS 1
STRUCTURE NO. 016-6666**

SHEET S-4 OF S-35 SHEETS

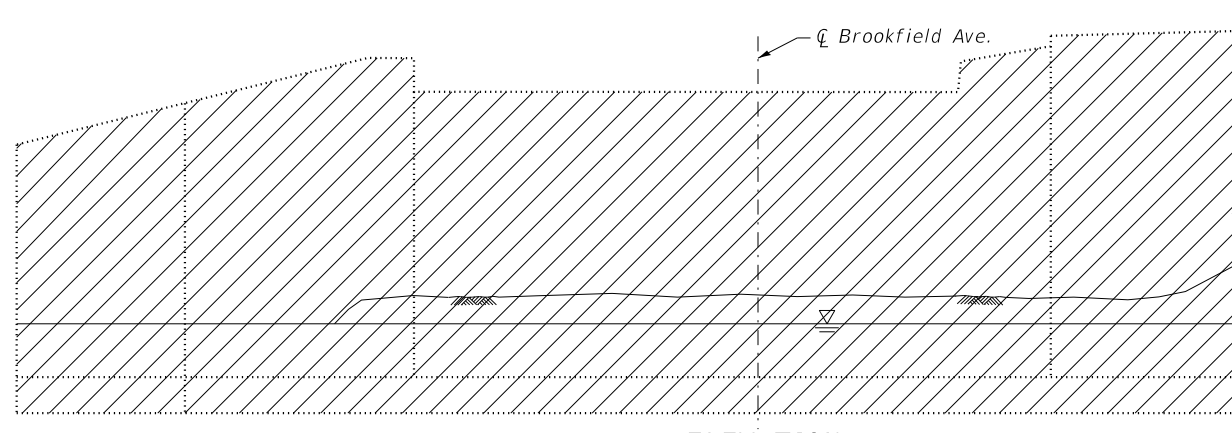
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1408	15-00129-00-BR	COOK	114	70
CONTRACT NO.			61G22	
ILLINOIS FED. AID PROJECT				

NOTES:

1. Dimensions shown are taken from existing plans and are included for information only.
2. See Article 501.04 for removal below grade.

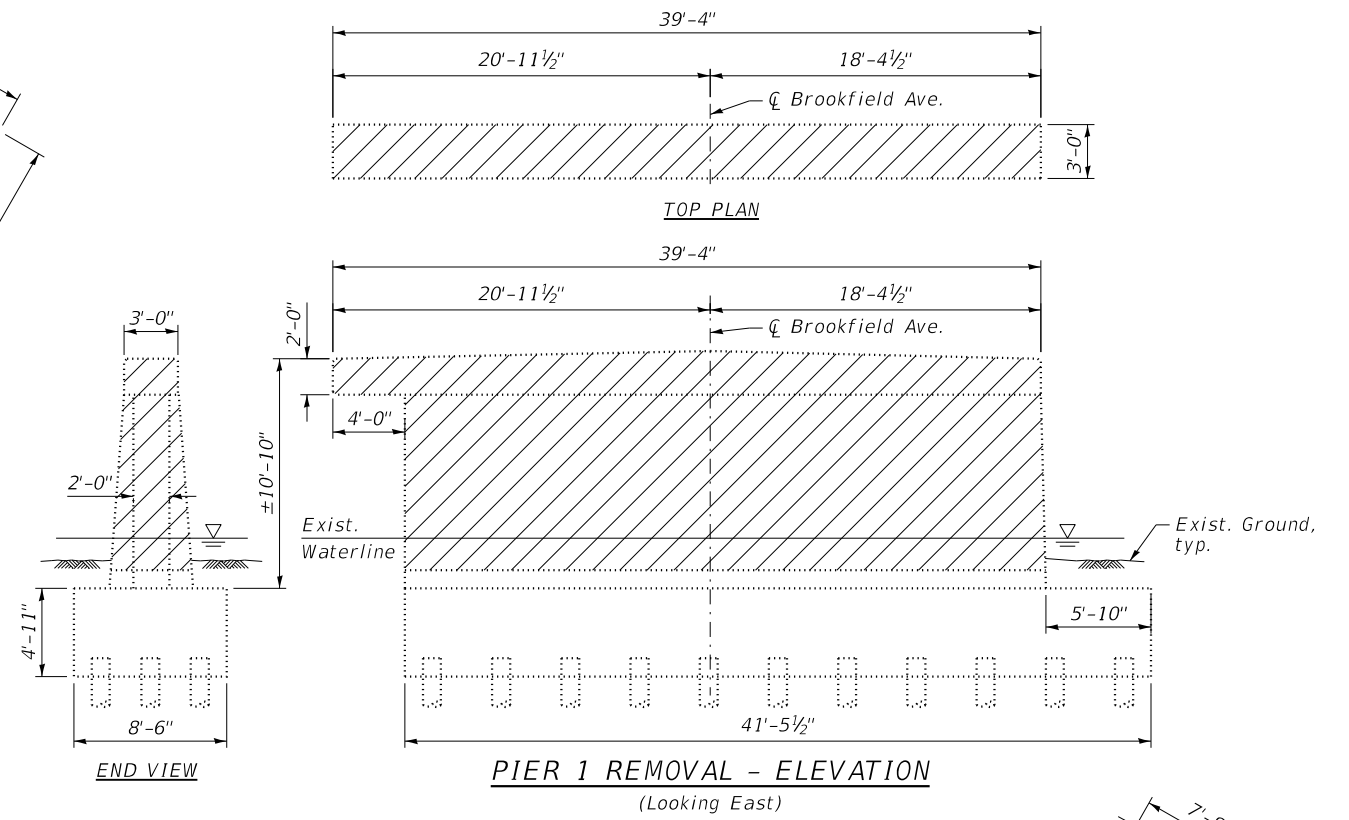


PLAN



ELEVATION

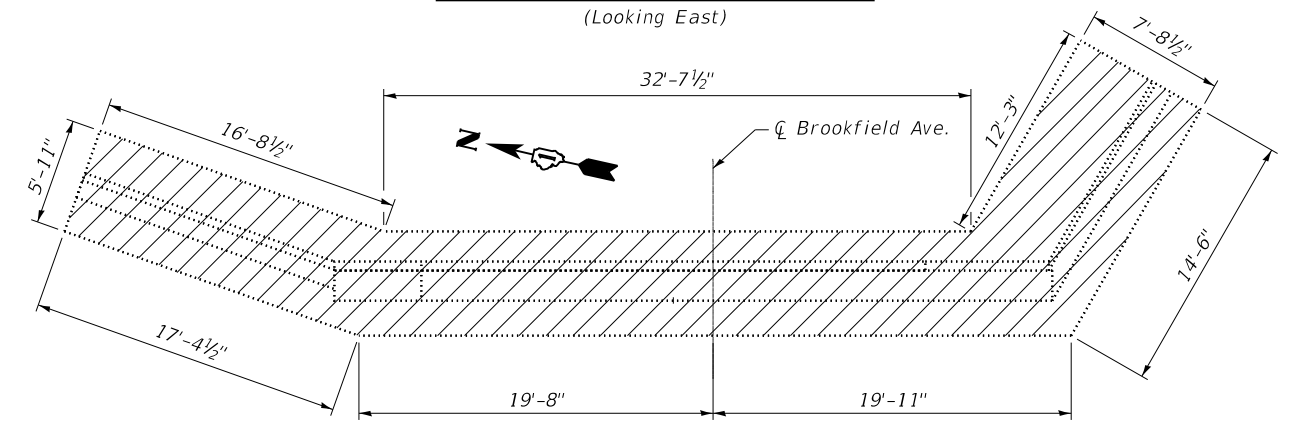
WEST ABUTMENT AND WINGWALL REMOVAL - PLAN AND ELEVATION
(Looking West)



END VIEW

PIER 1 REMOVAL - ELEVATION

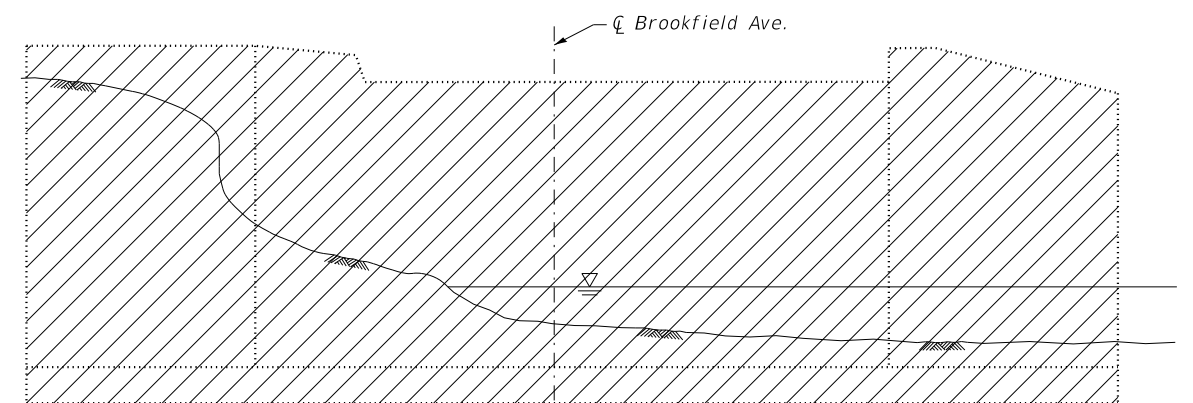
(Looking East)



PLAN

LEGEND

Existing Structure Removal



ELEVATION

EAST ABUTMENT AND WINGWALL REMOVAL - PLAN AND ELEVATION
(Looking East)

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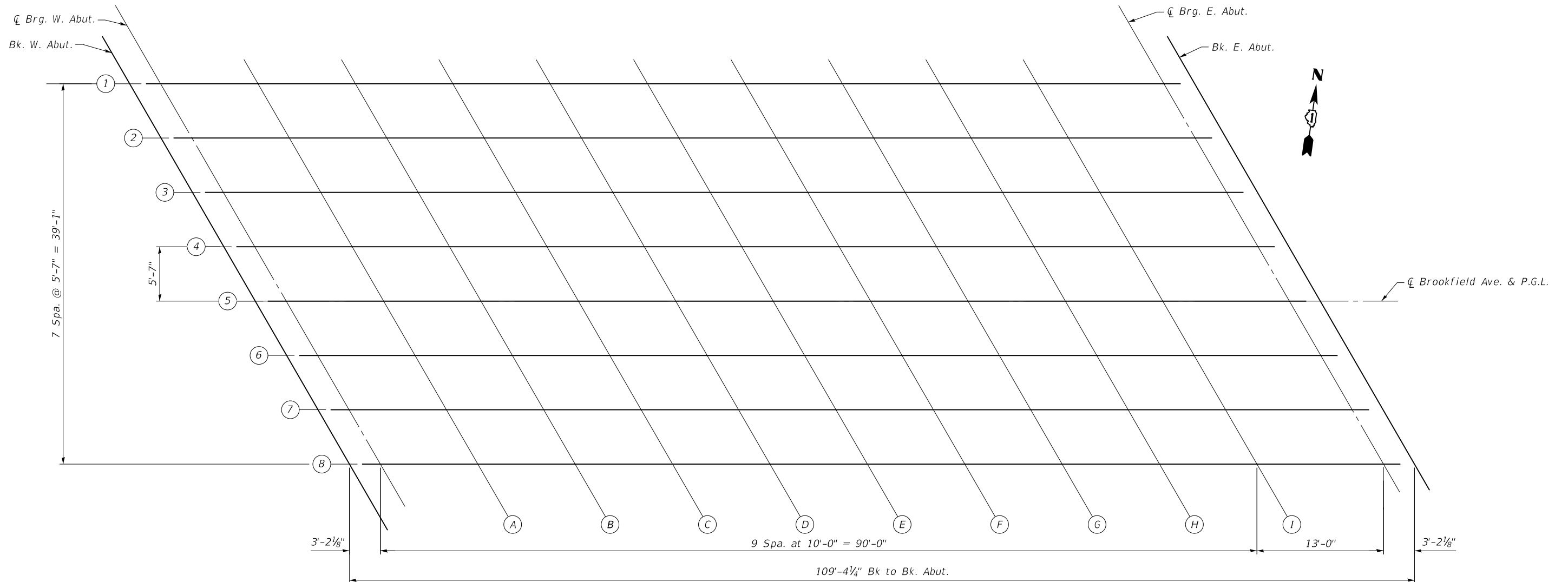
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

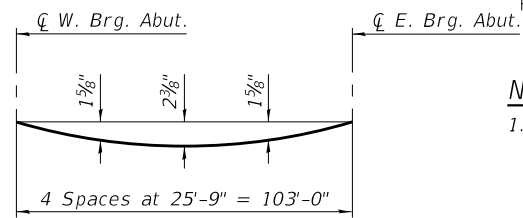
STRUCTURE REMOVAL DETAILS 2
STRUCTURE NO. 016-6666

SHEET S-5 OF S-35 SHEETS

FAU RTE. 1408	SECTION 15-00129-00-BR	COUNTY COOK	TOTAL SHEETS 114	SHEET NO. 71
CONTRACT NO. 61G22			ILLINOIS FED. AID PROJECT	



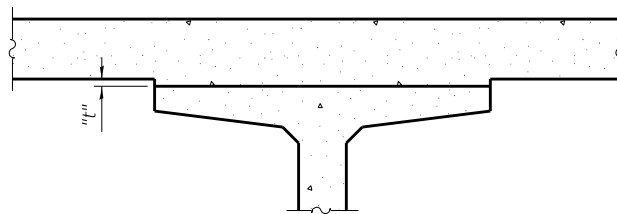
PLAN



NOTE:
1. For Overlook elevations see sheet S-12.

DEAD LOAD DEFLECTION DIAGRAM
(Includes weight of concrete, excluding beams).

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown below.



To determine "t": After all precast prestressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflections" shown below, minus slab thickness, equals the fillet heights "t" above top flanges of beams.

FILLET HEIGHTS

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
☐ Bk. W. Abut.	506+29.45	-22.33	619.79	619.79
☐ Brg. W. Abut.	506+31.48	-22.33	619.81	619.81
A	506+41.48	-22.33	619.87	619.94
B	506+51.48	-22.33	619.93	620.05
C	506+61.48	-22.33	619.96	620.13
D	506+71.48	-22.33	619.99	620.19
E	506+81.48	-22.33	619.99	620.21
F	506+91.48	-22.33	619.99	620.19
G	507+01.48	-22.33	619.97	620.14
H	507+11.48	-22.33	619.93	620.06
I	507+21.48	-22.33	619.88	619.95
☐ Brg. E. Abut.	507+34.48	-22.33	619.80	619.80
☐ E. Abut.	507+36.51	-22.33	619.78	619.78

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
☐ Bk. W. Abut.	506+32.67	-16.75	619.93	619.93
☐ Brg. W. Abut.	506+34.70	-16.75	619.94	619.94
A	506+44.70	-16.75	620.00	620.07
B	506+54.70	-16.75	620.05	620.17
C	506+64.70	-16.75	620.08	620.25
D	506+74.70	-16.75	620.10	620.30
E	506+84.70	-16.75	620.11	620.32
F	506+94.70	-16.75	620.10	620.30
G	507+04.70	-16.75	620.07	620.24
H	507+14.70	-16.75	620.03	620.15
I	507+24.70	-16.75	619.98	620.04
☐ Brg. E. Abut.	507+37.70	-16.75	619.88	619.88
☐ E. Abut.	507+39.73	-16.75	619.87	619.87

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF DECK ELEVATIONS 1
STRUCTURE NO. 016-6666**

SHEET 5-6 OF 5-35 SHEETS

FAU RTE. 1408	SECTION 15-00129-00-BR	COUNTY COOK	TOTAL SHEETS 114	SHEET NO. 72
CONTRACT NO. 61G22			ILLINOIS FED. AID PROJECT	

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
☒ Bk. W. Abut.	506+35.89	-11.17	620.06	620.06
☒ Brg. W. Abut.	506+37.92	-11.17	620.07	620.07
A	506+47.92	-11.17	620.13	620.20
B	506+57.92	-11.17	620.17	620.30
C	506+67.92	-11.17	620.20	620.37
D	506+77.92	-11.17	620.22	620.42
E	506+87.92	-11.17	620.22	620.43
F	506+97.92	-11.17	620.20	620.40
G	507+07.92	-11.17	620.17	620.34
H	507+17.92	-11.17	620.13	620.25
I	507+27.92	-11.17	620.07	620.13
☒ Brg. E. Abut.	507+40.92	-11.17	619.97	619.97
☒ E. Abut.	507+42.95	-11.17	619.95	619.95

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
☒ Bk. W. Abut.	506+39.12	-5.58	620.17	620.17
☒ Brg. W. Abut.	506+41.15	-5.58	620.18	620.18
A	506+51.15	-5.58	620.23	620.30
B	506+61.15	-5.58	620.27	620.39
C	506+71.15	-5.58	620.29	620.46
D	506+81.15	-5.58	620.30	620.50
E	506+91.15	-5.58	620.30	620.51
F	507+01.15	-5.58	620.28	620.48
G	507+11.15	-5.58	620.24	620.41
H	507+21.15	-5.58	620.19	620.32
I	507+31.15	-5.58	620.13	620.19
☒ Brg. E. Abut.	507+44.15	-5.58	620.03	620.03
☒ E. Abut.	507+46.18	-5.58	620.01	620.01

P.G.L. & BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
☒ Bk. W. Abut.	506+42.34	0.00	620.27	620.27
☒ Brg. W. Abut.	506+44.37	0.00	620.28	620.28
A	506+54.37	0.00	620.33	620.39
B	506+64.37	0.00	620.36	620.49
C	506+74.37	0.00	620.38	620.55
D	506+84.37	0.00	620.39	620.59
E	506+94.37	0.00	620.38	620.59
F	507+04.37	0.00	620.35	620.55
G	507+14.37	0.00	620.31	620.48
H	507+24.37	0.00	620.26	620.38
I	507+34.37	0.00	620.19	620.25
☒ Brg. E. Abut.	507+47.37	0.00	620.08	620.08
☒ E. Abut.	507+49.40	0.00	620.06	620.06

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF DECK ELEVATIONS 2
STRUCTURE NO. 016-6666**

SHEET 5-7 OF 5-35 SHEETS

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	73
CONTRACT NO.			61G22	
ILLINOIS		FED. AID PROJECT		

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
☐ Bk. W. Abut.	506+45.56	5.58	620.20	620.20
☐ Brg. W. Abut.	506+47.59	5.58	620.21	620.21
A	506+57.59	5.58	620.26	620.32
B	506+67.59	5.58	620.29	620.41
C	506+77.59	5.58	620.30	620.47
D	506+87.59	5.58	620.30	620.50
E	506+97.59	5.58	620.29	620.50
F	507+07.59	5.58	620.26	620.46
G	507+17.59	5.58	620.21	620.38
H	507+27.59	5.58	620.15	620.28
I	507+37.59	5.58	620.08	620.15
☐ Brg. E. Abut.	507+50.59	5.58	619.97	619.97
☐ E. Abut.	507+52.62	5.58	619.95	619.95

BEAM 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
☐ Bk. W. Abut.	506+48.79	11.17	620.14	620.14
☐ Brg. W. Abut.	506+50.82	11.17	620.15	620.15
A	506+60.82	11.17	620.18	620.25
B	506+70.82	11.17	620.21	620.33
C	506+80.82	11.17	620.22	620.39
D	506+90.82	11.17	620.21	620.41
E	507+00.82	11.17	620.19	620.40
F	507+10.82	11.17	620.16	620.36
G	507+20.82	11.17	620.11	620.28
H	507+30.82	11.17	620.05	620.17
I	507+40.82	11.17	619.97	620.04
☐ Brg. E. Abut.	507+53.82	11.17	619.85	619.85
☐ E. Abut.	507+55.85	11.17	619.83	619.83

BEAM 8

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
☐ Bk. W. Abut.	506+52.01	16.75	620.04	620.04
☐ Brg. W. Abut.	506+54.04	16.75	620.05	620.05
A	506+64.04	16.75	620.08	620.15
B	506+74.04	16.75	620.10	620.22
C	506+84.04	16.75	620.11	620.28
D	506+94.04	16.75	620.10	620.30
E	507+04.04	16.75	620.07	620.28
F	507+14.04	16.75	620.03	620.23
G	507+24.04	16.75	619.98	620.15
H	507+34.04	16.75	619.91	620.04
I	507+44.04	16.75	619.83	619.89
☐ Brg. E. Abut.	507+57.04	16.75	619.70	619.70
☐ E. Abut.	507+59.07	16.75	619.68	619.68

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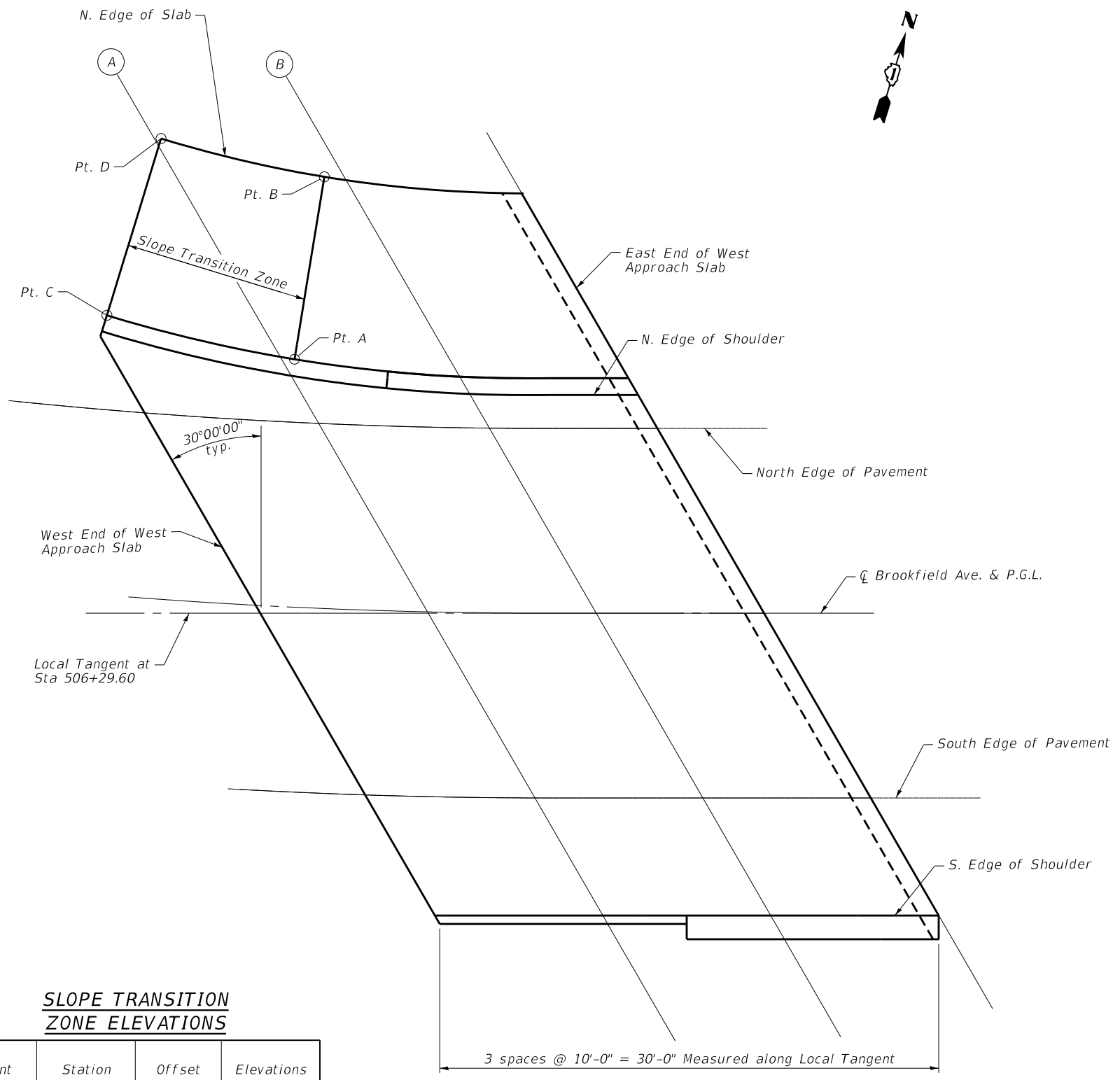
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TOP OF DECK ELEVATIONS 3
 STRUCTURE NO. 016-6666**

SHEET 5-8 OF 5-35 SHEETS

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	74
CONTRACT NO.			61G22	
ILLINOIS		FED. AID PROJECT		



SLOPE TRANSITION ZONE ELEVATIONS

Point	Station	Offset	Elevations
Pt. A	506+13.65	-14.75	619.80
Pt. B	506+15.01	-25.68	619.60
Pt. C	506+01.76	-16.61	620.12
Pt. D	506+04.28	-27.36	619.94

PLAN

NORTH EDGE OF SLAB

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Approach Slab	506+01.47	-15.32	619.66
A	506+04.17	-26.39	N/A *
B	506+16.42	-25.54	619.61
E. End of W. Approach Slab	506+27.77	-25.00	619.72

*In slope transition zone.

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Approach Slab	N/A	N/A	N/A
A	506+13.49	-13.76	619.82
B	506+24.61	-13.02	619.94
E. End of W. Approach Slab	506+29.60	-13.00	619.98

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Approach Slab	506+04.59	-11.00	619.78
A	506+15.33	-11.00	619.89
B	506+25.85	-11.00	619.99
E. End of W. Approach Slab	506+35.99	-11.00	620.06

CL Brookfield Avenue & P.G.L.

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Approach Slab	506+12.06	0.00	620.03
A	506+22.30	0.00	620.12
B	506+32.34	0.00	620.20
E. End of W. Approach Slab	506+42.34	0.00	620.27

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Approach Slab	506+18.95	11.00	619.93
A	506+28.72	11.00	620.01
B	506+38.70	11.00	620.08
E. End of W. Approach Slab	506+48.70	11.00	620.14

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Approach Slab	506+23.10	18.07	619.82
A	506+32.74	18.00	619.90
B	506+42.74	18.00	619.97
E. End of W. Approach Slab	506+52.74	18.00	620.02

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF WEST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 016-6666**

SHEET 5-9 OF 5-35 SHEETS

FAU RTE. 1408	SECTION 15-00129-00-BR	COUNTY COOK	TOTAL SHEETS 114	SHEET NO. 75
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61G22	

NORTH EDGE OF SLAB

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Approach Slab	507+34.95	-25.00	619.74
C	507+44.95	-25.00	619.66
D	507+55.01	-25.00	619.56
E. End of E. Approach Slab	507+65.91	-24.79	N/A*

*In slope transition zone.

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Approach Slab	507+41.87	-13.00	619.92
C	507+51.87	-13.00	619.83
D	507+62.22	-12.90	619.72
E. End of E. Approach Slab	507+72.37	-12.47	619.61

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Approach Slab	507+43.04	-11.00	619.95
C	507+53.03	-11.00	619.86
D	507+63.28	-11.00	619.75
E. End of E. Approach Slab	507+73.18	-11.00	619.62

☐ BROOKFIELD AVENUE & P.G.L.

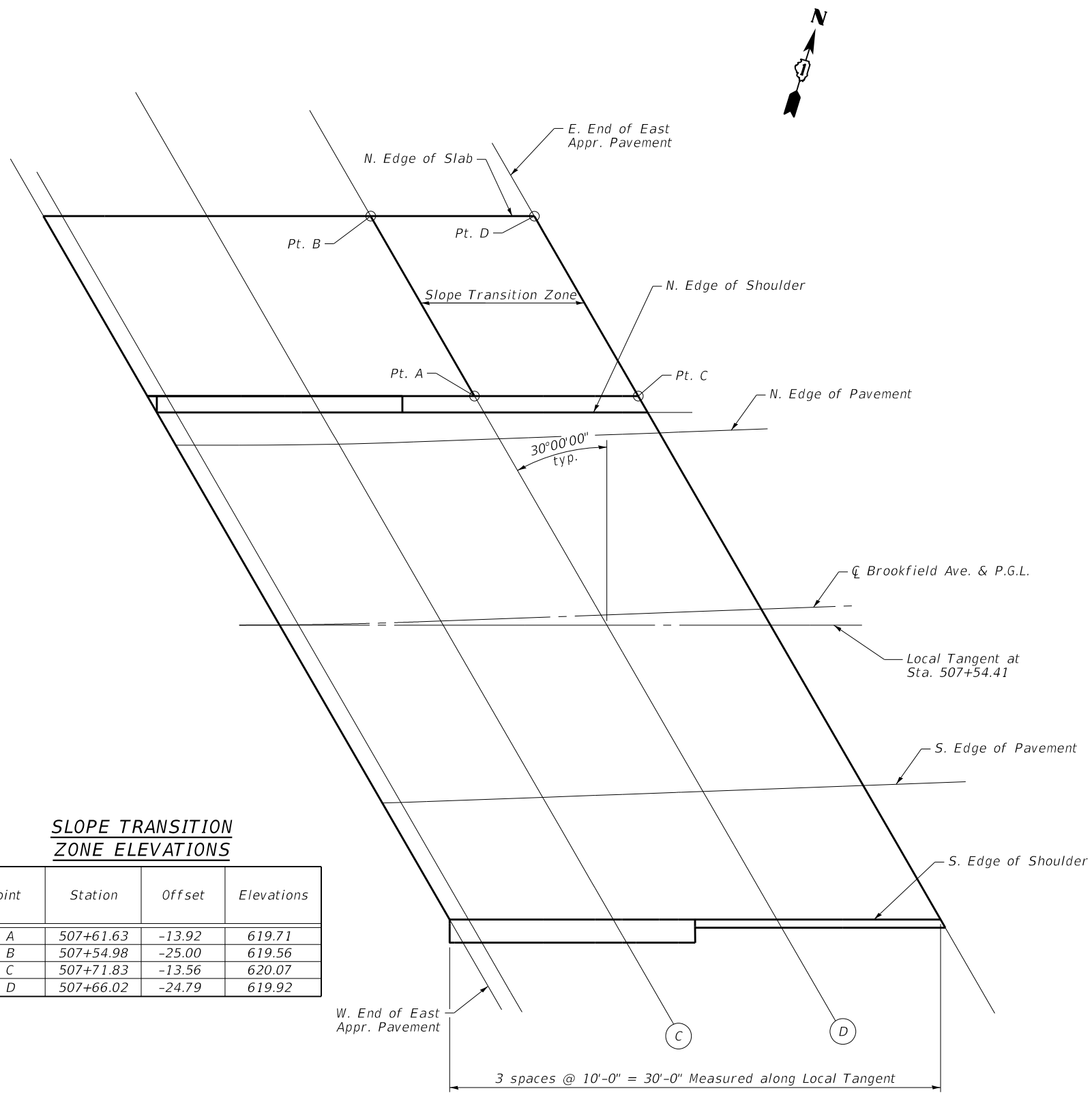
Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Approach Slab	507+49.39	0.00	620.06
C	507+59.36	0.00	619.96
D	507+69.19	0.00	619.84
E. End of E. Approach Slab	507+78.98	0.00	619.71

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Approach Slab	507+55.69	11.00	619.83
C	507+65.24	11.00	619.72
D	507+75.00	11.00	619.60
E. End of E. Approach Slab	507+84.78	11.00	619.46

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Approach Slab	507+59.48	18.05	619.65
C	507+69.10	18.36	619.53
D	507+79.09	18.74	619.39
E. End of E. Approach Slab	507+89.07	19.12	619.23



SLOPE TRANSITION ZONE ELEVATIONS

Point	Station	Offset	Elevations
Pt. A	507+61.63	-13.92	619.71
Pt. B	507+54.98	-25.00	619.56
Pt. C	507+71.83	-13.56	620.07
Pt. D	507+66.02	-24.79	619.92

PLAN

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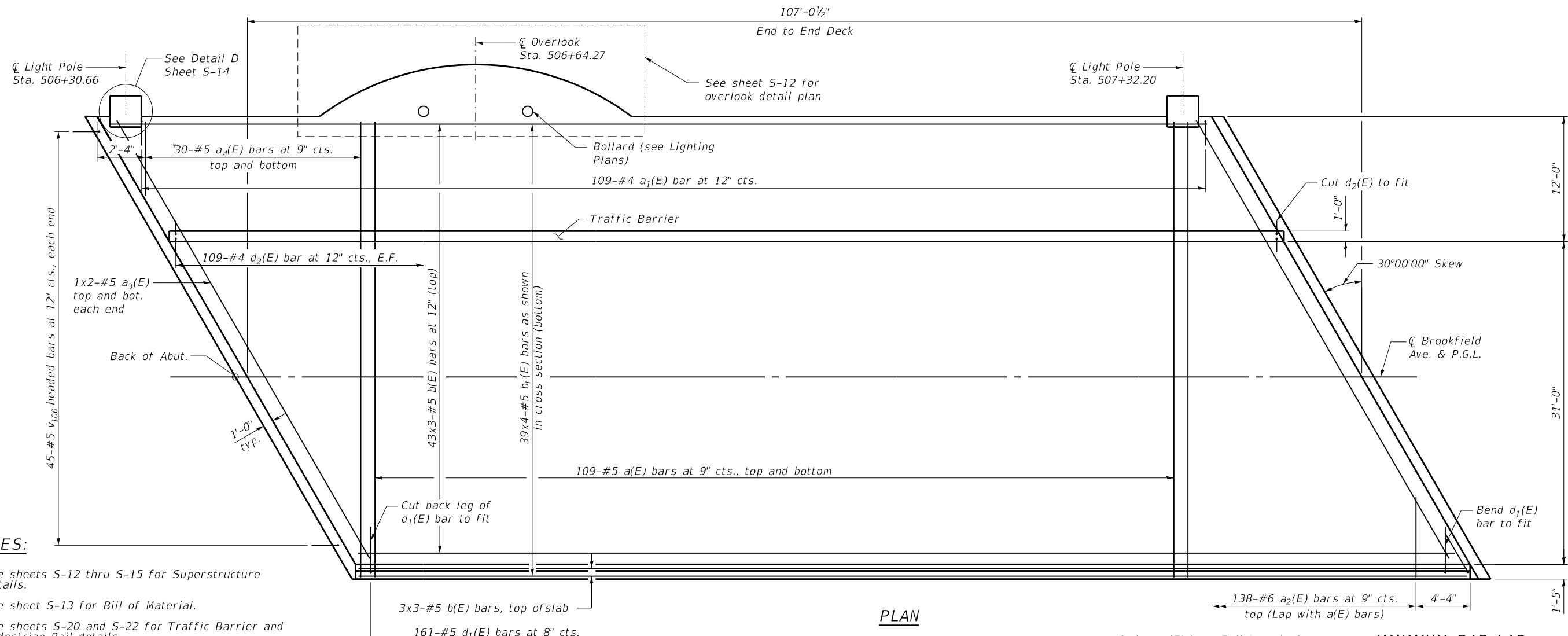
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TOP OF EAST APPROACH SLAB ELEVATIONS
 STRUCTURE NO. 016-6666**

SHEET 5-10 OF 5-35 SHEETS

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	76
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61G22	



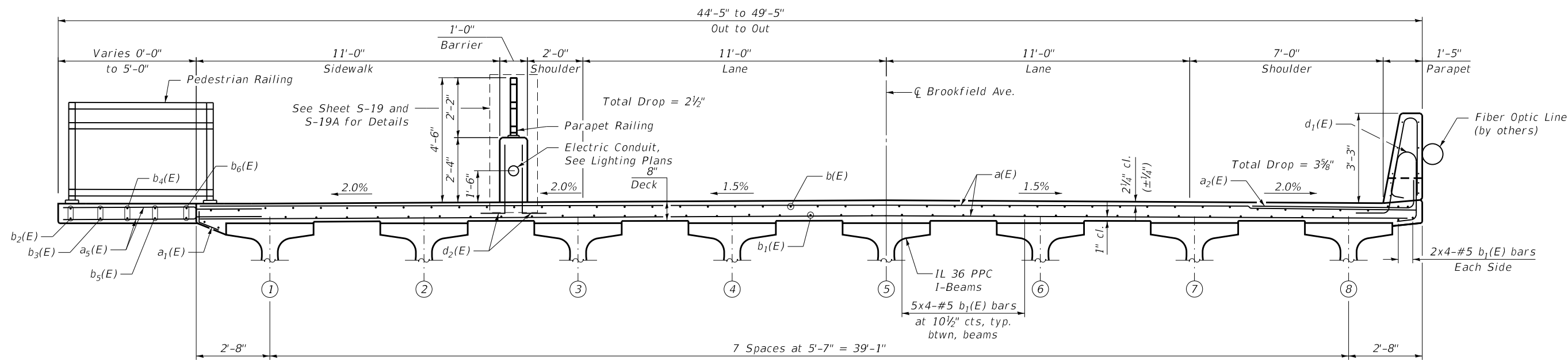
NOTES:

1. See sheets S-12 thru S-15 for Superstructure Details.
2. See sheet S-13 for Bill of Material.
3. See sheets S-20 and S-22 for Traffic Barrier and Pedestrian Rail details.
4. Bars indicated thus 20x3 #5 etc. indicates 20 lines of bars with 3 lengths per line.

PLAN

*Order a1(E) bars Full Length. Cut to fit skew and use remainder of bars in opposite ends.

MINIMUM BAR LAP
#5 bar = 3'-6"



CROSS SECTION
(Looking East)

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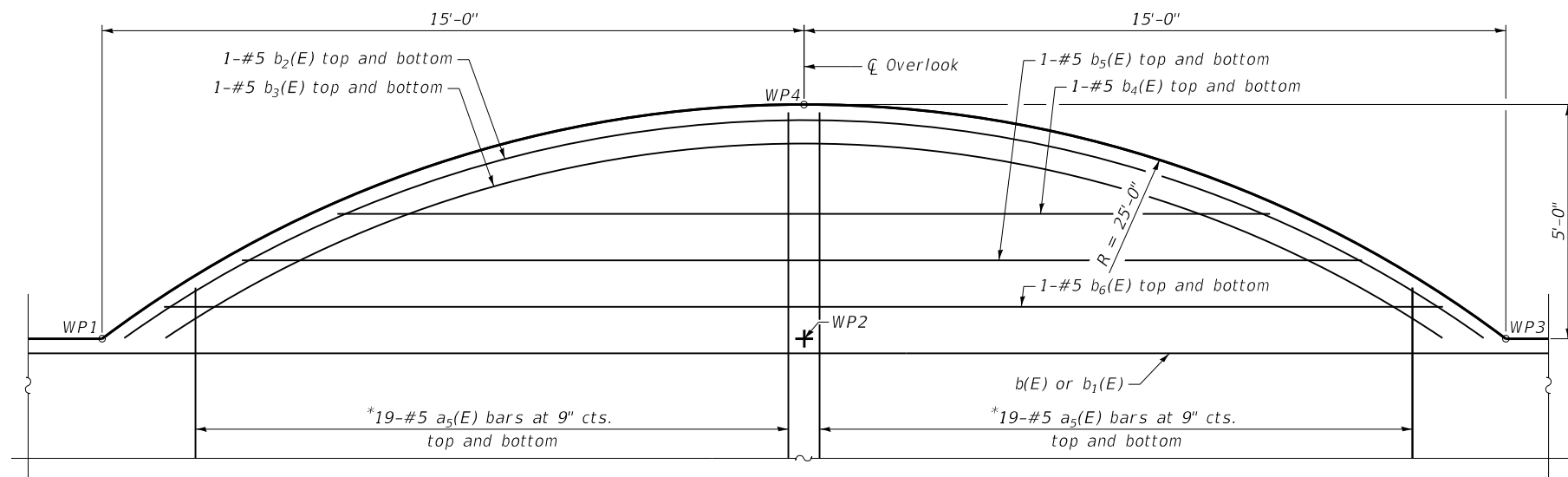
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

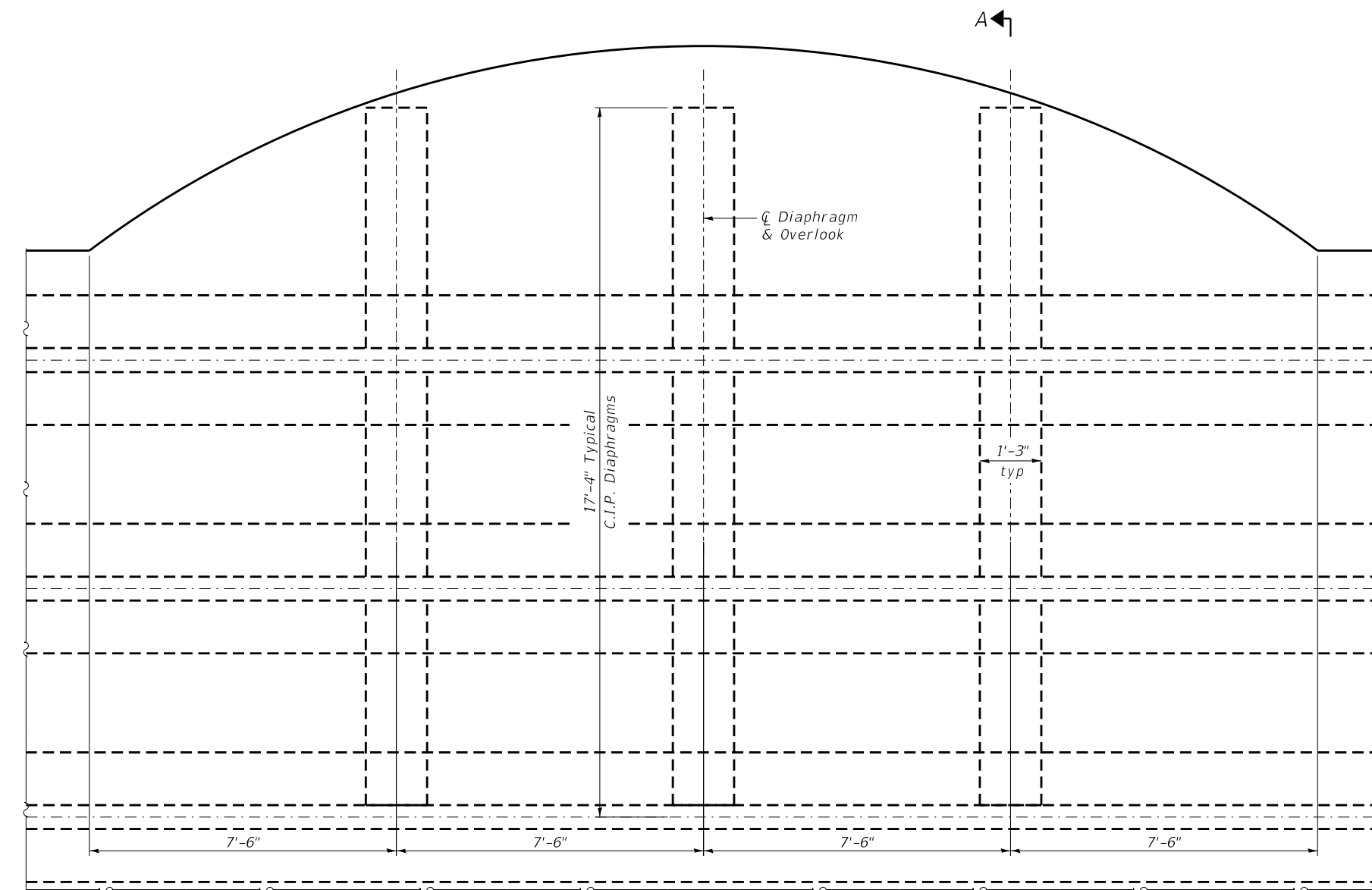
DECK PLAN AND CROSS SECTION
STRUCTURE NO. 016-6666

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	77
CONTRACT NO.			61G22	
ILLINOIS FED. AID PROJECT				

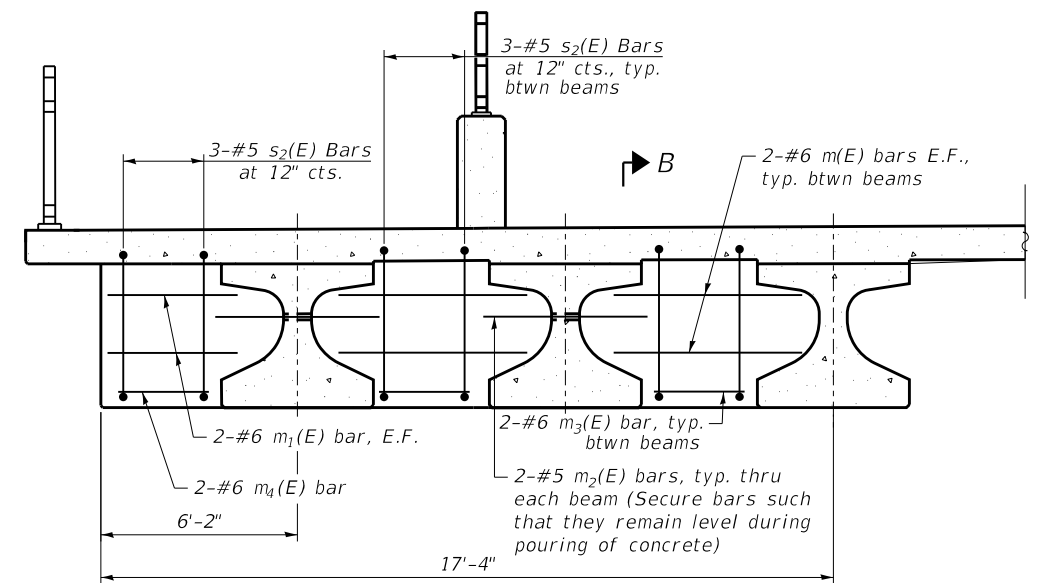
SHEET 5-11 OF 5-35 SHEETS



OVERLOOK DETAIL PLAN

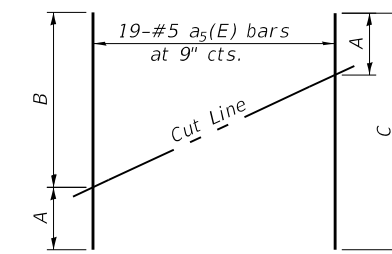


OVERLOOK DETAIL PLAN
(Showing CIP diaphragms only)



SECTION A-A
(Deck rebar not shown)

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Overlook WP1	506+49.27	-25.00	619.86	619.98
Overlook WP4	506+64.27	-30.00	619.82	619.99
Overlook WP2	506+64.27	-25.00	619.92	620.09
Overlook WP3	506+79.27	-25.00	619.94	620.14



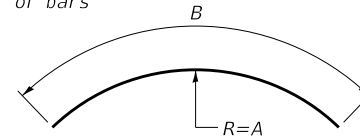
FIELD CUTTING DIAGRAM

Order $a_5(E)$ bars full length. Cut as shown and use remainder of bars in opposite end of overlook.

BAR $a_5(E)$

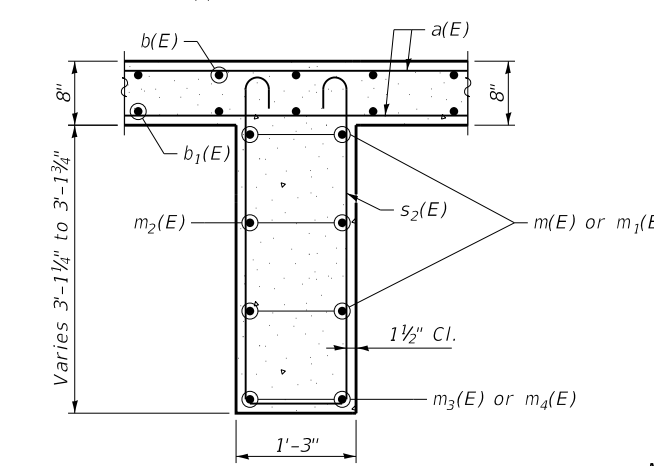
Bar	A	B	C
$a_5(E)$	4'-4"	8'-6"	12'-10"

*Order $a_5(E)$ bars Full Length. Cut to fit according to diagram and use remainder of bars at bottom

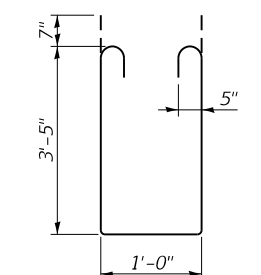


BAR $b_2(E)$ & $b_3(E)$

Bar	A	B
$b_2(E)$	29'-10"	34'-6"
$b_3(E)$	28'-10"	30'-6"



SECTION B-B



BAR $s_2(E)$

NOTES:
1. See Sheet S-13 for Bill of Material.

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 PLOT CONFIG = CG-PPF.plt
 FILE NAME: R:\Proj\0020782\01\0020782\01\0020782-20182-12-overlook.dwg



USER NAME = Structural	DESIGNED - MLK	REVISED -
PLOT SCALE = 0:2.0000 "*/ in.	CHECKED - BWS	REVISED -
PLOT DATE = 11/02/20	DRAWN - SBA	REVISED -
	DATE - 11/02/20	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

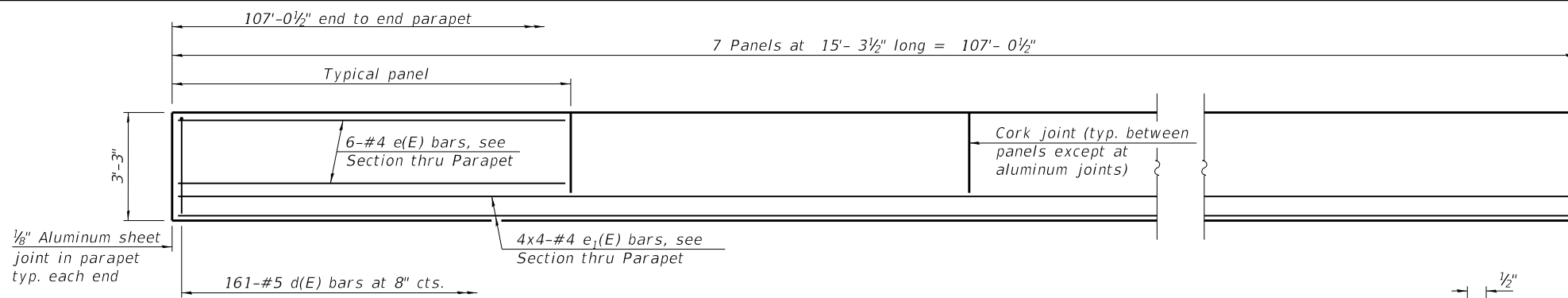
PEDESTRIAN OVERLOOK DETAILS
STRUCTURE NO. 016-6666

SHEET 5-12 OF 5-35 SHEETS

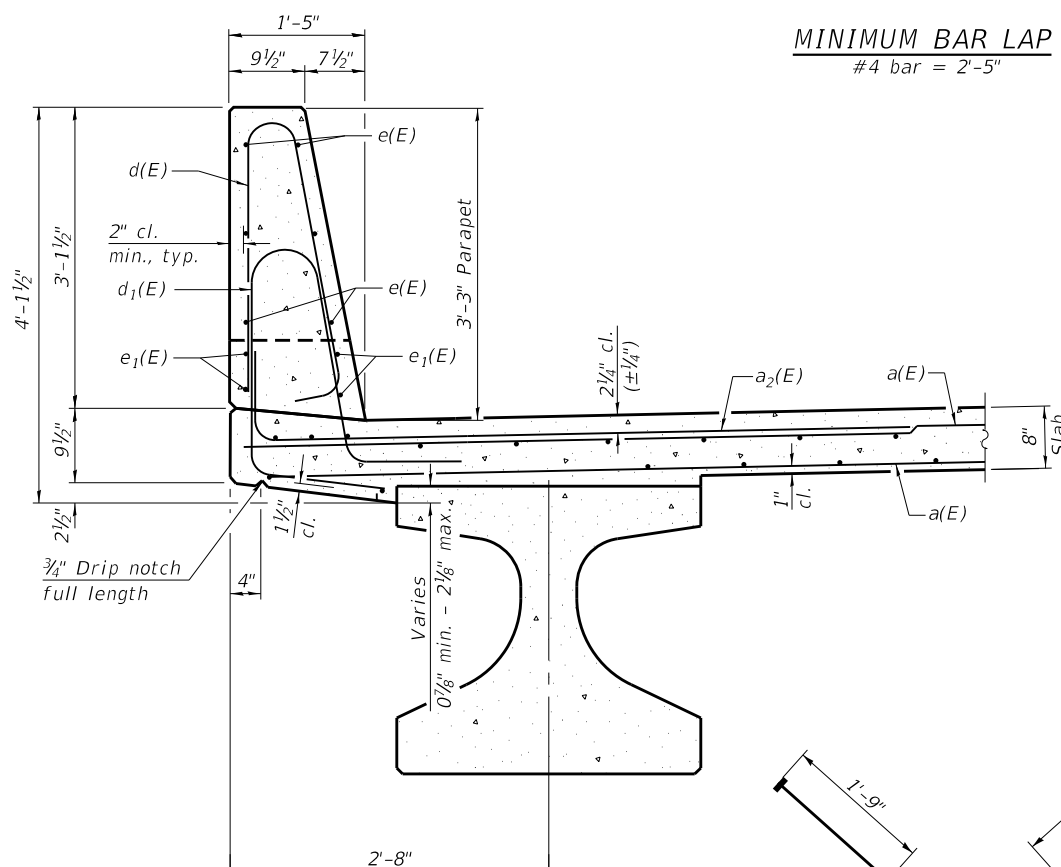
FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	78
CONTRACT NO.			61G22	
ILLINOIS FED. AID PROJECT				

**SUPERSTRUCTURE
BILL OF MATERIAL**

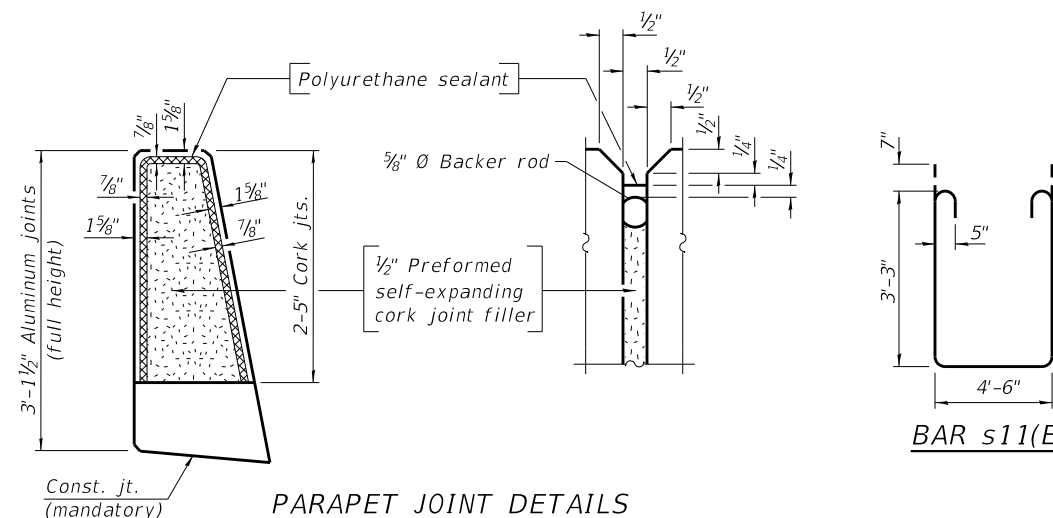
Bar	No.	Size	Length	Shape
a(E)	218	#5	44'-1"	—
a ₁ (E)	109	#4	1'-4"	┌
a ₂ (E)	138	#6	8'-4"	┌
a ₃ (E)	8	#5	27'-3"	—
a ₄ (E)	60	#5	44'-9"	—
a ₅ (E)	34	#5	12'-11"	—
b(E)	138	#5	37'-11"	—
b ₁ (E)	156	#5	29'-4"	—
b ₂ (E)	2	#5	34'-6"	⌒
b ₃ (E)	2	#5	30'-6"	⌒
b ₄ (E)	5	#5	30'-6"	—
b ₅ (E)	2	#5	37'-0"	—
d(E)	161	#5	6'-5"	└
d ₁ (E)	161	#5	6'-8"	└
d ₂ (E)	218	#4	3'-9"	┌
d ₃ (E)	72	#4	2'-0"	└
e(E)	42	#4	14'-8"	—
e ₁ (E)	16	#4	28'-6"	—
e ₂ (E)	65	#4	17'-8"	—
e ₃ (E)	13	#4	16'-8"	—
m(E)	42	#6	14'-8"	—
m ₁ (E)	16	#6	28'-6"	—
m ₂ (E)	12	#6	5'-0"	—
m ₃ (E)	12	#6	2'-1"	—
m ₄ (E)	6	#6	4'-2"	—
m ₁₀ (E)	24	#6	27'-6"	—
m ₁₁ (E)	32	#6	5'-7"	└
m ₁₂ (E)	42	#6	5'-0"	—
m ₁₃ (E)	12	#6	2'-6"	—
m ₁₄ (E)	8	#4	26'-10"	—
m ₁₅ (E)	32	#6	4'-0"	—
s ₂ (E)	27	#5	7'-2"	┌
s ₁₀ (E)	50	#5	10'-7"	┌
s ₁₁ (E)	50	#5	12'-2"	┌
s ₁₂ (E)	56	#5	10'-7"	┌
u ₁₀ (E)	50	#4	4'-1"	┌
v ₁₀₀ (E)	90	#5	3'-1"	┌
Concrete Superstructure	Cu Yd		207.6	
Protective Coat	Sq Yd		625	
Reinforcement Bars, Epoxy Coated	Pound		21,780	
Bridge Deck Grooving	Sq Yd		345	
Form Liner Textured Surface	Sq Ft		105	
Form Liner Coloration	Sq Yd		60	



INSIDE ELEVATION OF PARAPET



MINIMUM BAR LAP
#4 bar = 2'-5"

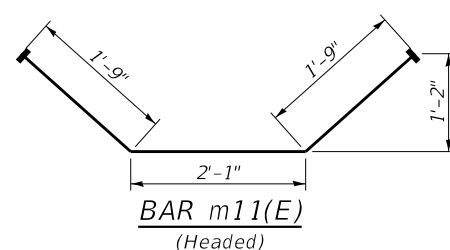


PARAPET JOINT DETAILS

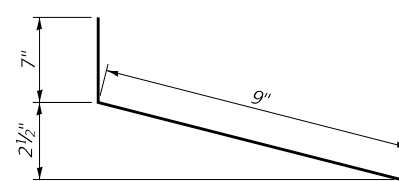
NOTES:

- The 1/8" Aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.
- The polyurethane sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.
- Bars indicated thus 1 x 2-#4 etc. indicates 1 line of bars with 2 lengths per line.
- Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.

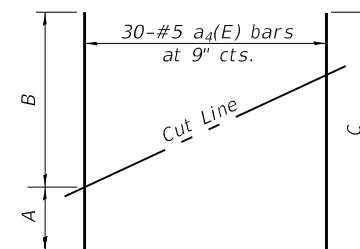
SECTION THRU PARAPET



BAR m11(E)
(Headed)



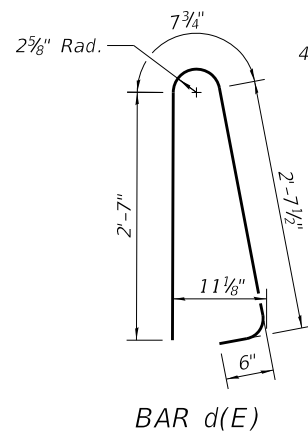
BAR a1(E)



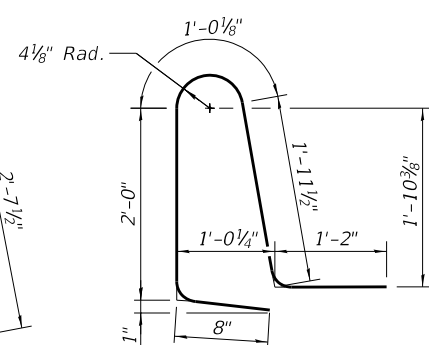
FIELD CUTTING DIAGRAM

Order a₄(E) bars full length. Cut as shown and use remainder of bars in opposite end of deck.

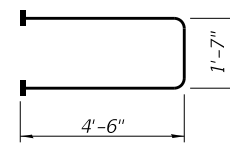
Bar	A	B	C
a ₄ (E)	3'-2"	41'-7"	44'-9"



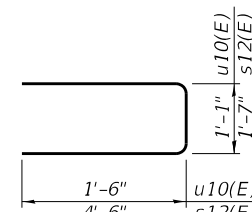
BAR d(E)



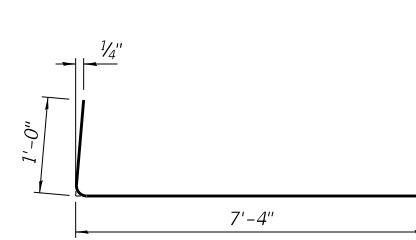
BAR d1(E)



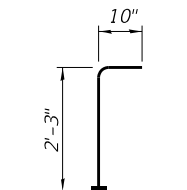
BAR s10(E)
(Headed)



BARS s12(E) & u10(E)

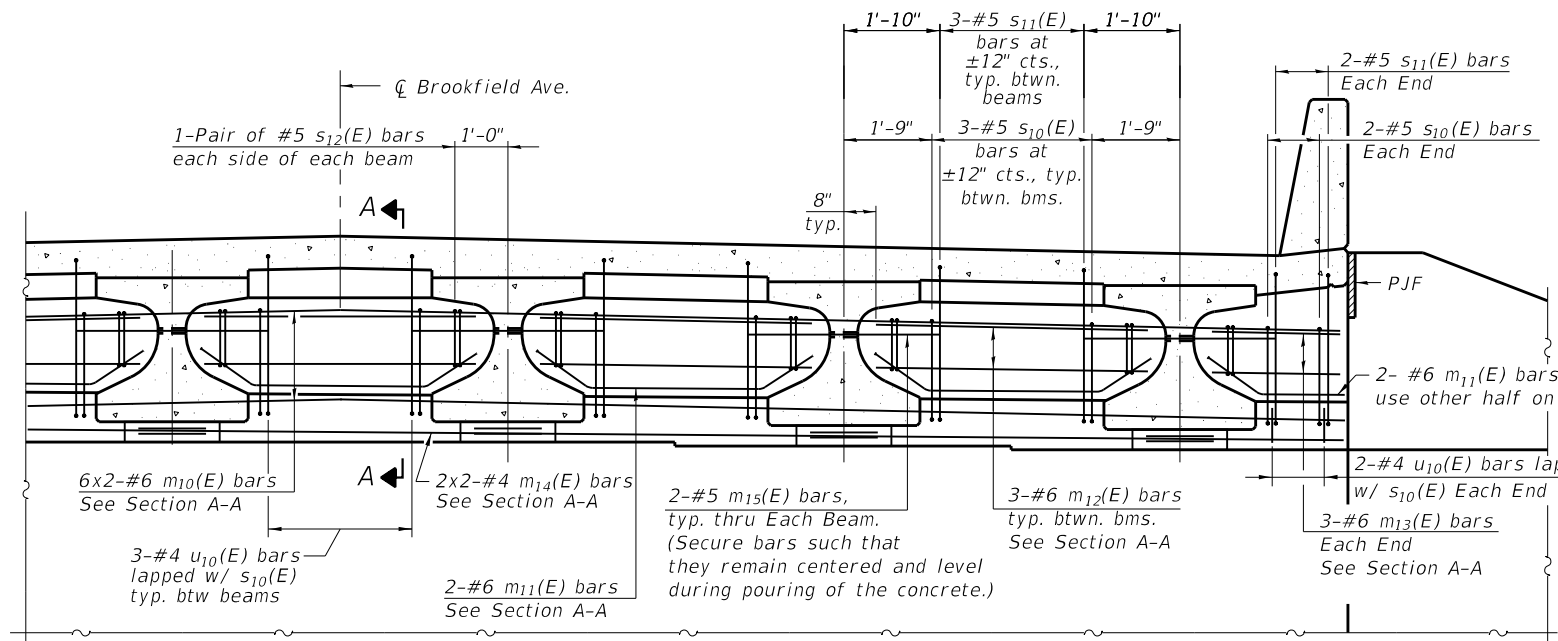


BAR a2(E)



BAR v100(E)
(Headed)

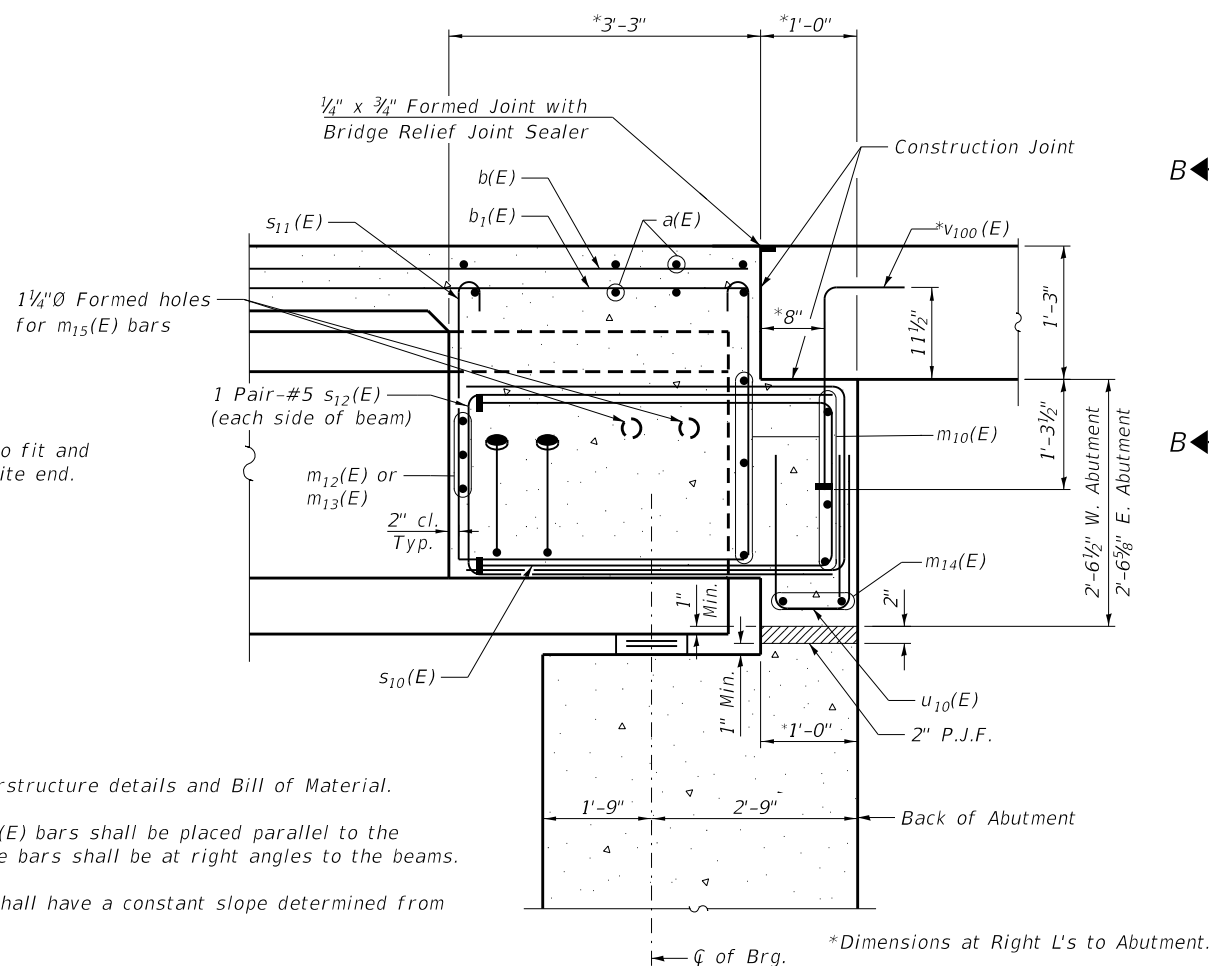
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FILE NAME = R:\Proj\0020782\010020782\010020782\13-Superstructure.dwg



DIAPHRAGM AT ABUTMENT
(East Abutment Looking East)

NOTES:

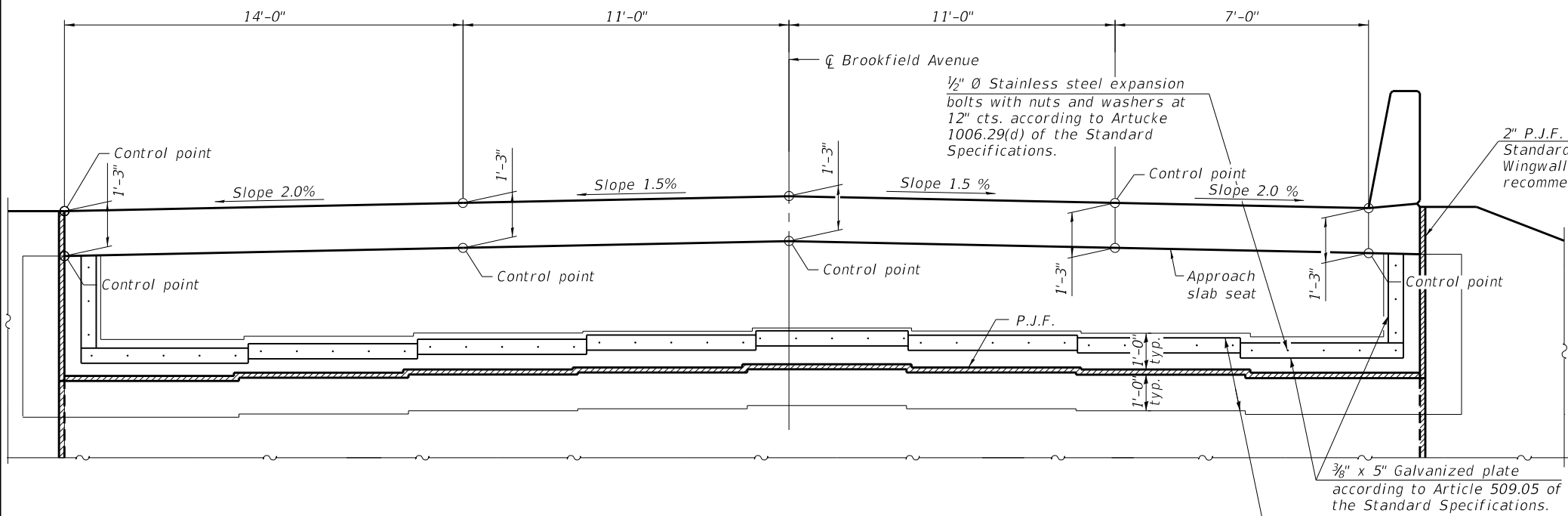
1. See sheet S-13 for superstructure details and Bill of Material.
2. The $s_{10}(E)$, $s_{11}(E)$ and $s_{12}(E)$ bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.
3. The approach slab seat shall have a constant slope determined from the control points shown.



SECTION A-A

MINIMUM BAR LAP

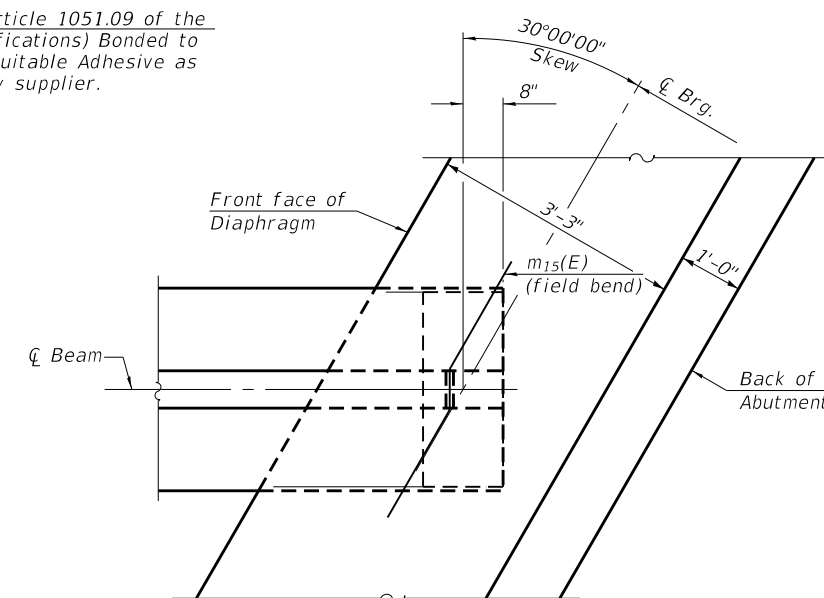
- #4 bar = 2'-8"
- #6 bar = 4'-0"



VIEW B-B

Note:
Cost of fabric reinforced elastomeric mat, galvanized plate, stainless steel expansion bolts with nuts and washers and installation are included in the cost of Concrete Superstructure.

Limits of fabric reinforced elastomeric mat according to Section 1028 of the Standard Specifications and installed according to applicable requirements of Article 520.09 of the Standard Specifications.



PLAN AT ABUTMENT
(Showing bottom flange of beam)

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STRUCTURAL\CD\016666-20782-14-structure2.dwg



USER NAME = Structural	DESIGNED - MLK	REVISED -
CHECKED - BWS	REVISIONS -	
DRAWN - SBA	REVISIONS -	
DATE - 11/02/20	REVISIONS -	

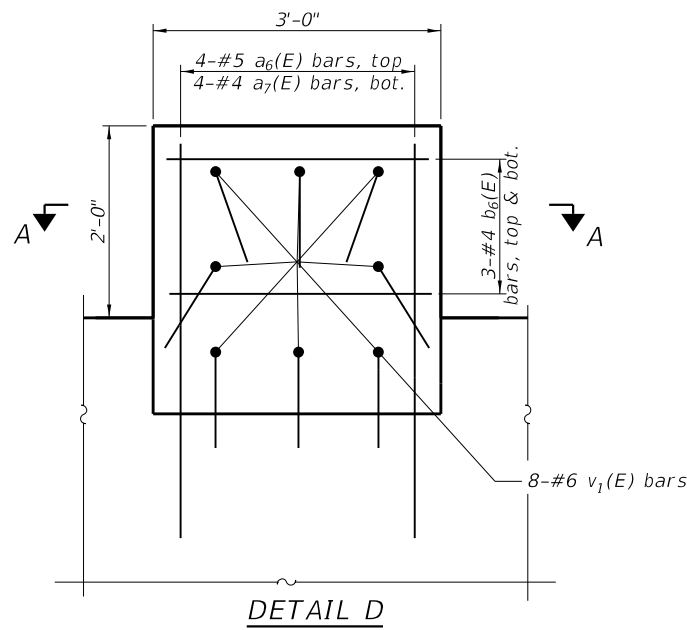
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS 2
STRUCTURE NO. 016-6666

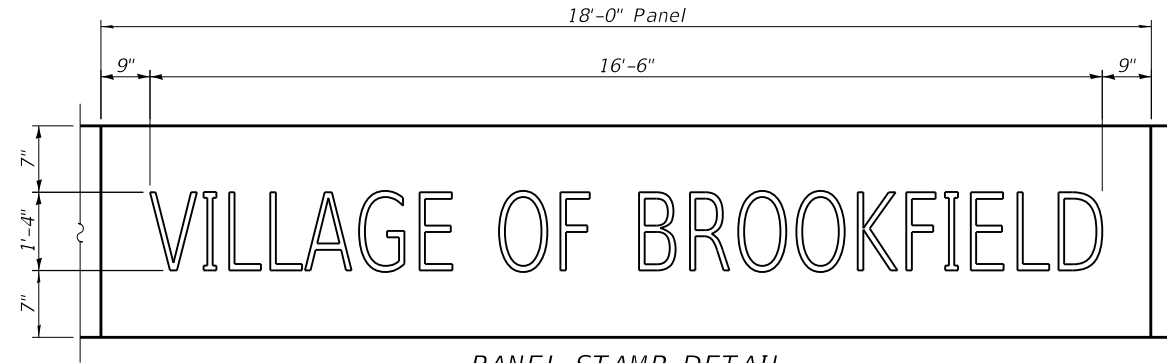
SHEET 5-14 OF 5-35 SHEETS

FAU RTE. 1408	SECTION 15-00129-00-BR	COUNTY COOK	TOTAL SHEETS 114	SHEET NO. 80
CONTRACT NO. 61G22				

ILLINOIS FED. AID PROJECT

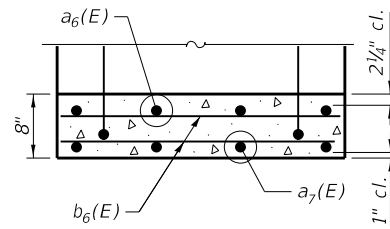


DETAIL D

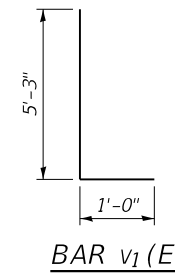


PANEL STAMP DETAIL

Panel Stamp shall be paid for as Form Liner Textured Concrete. The lettering shall be colored black.

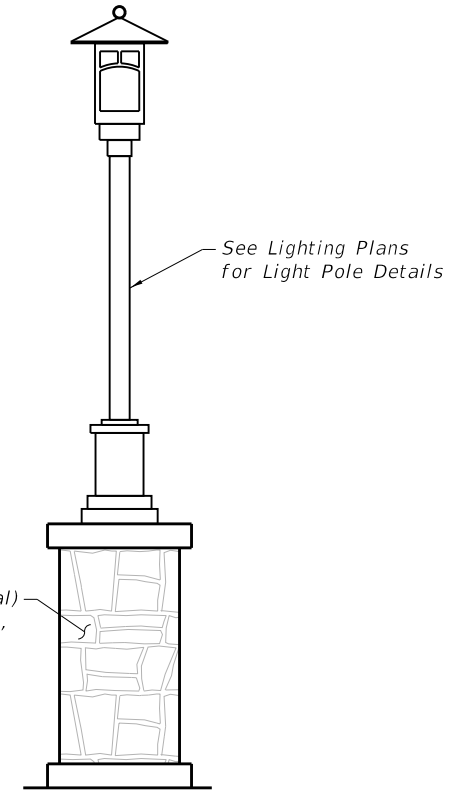


SECTION A-A

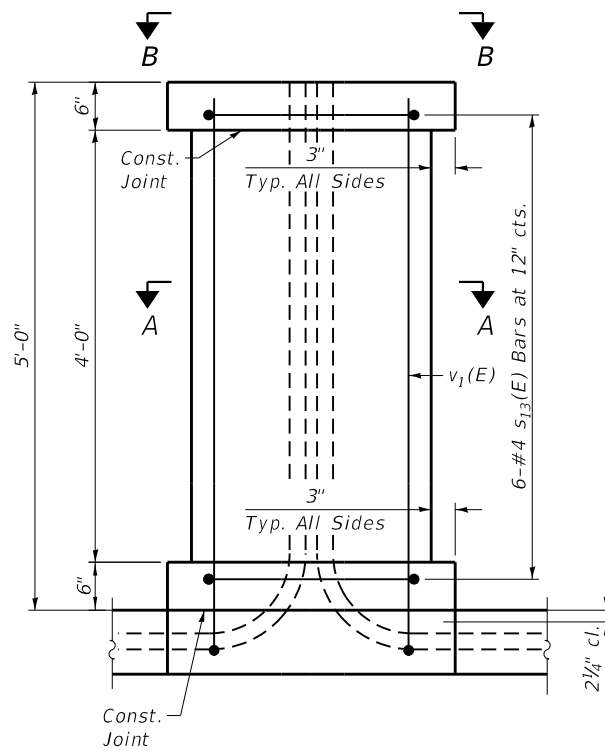


BAR v1(E)

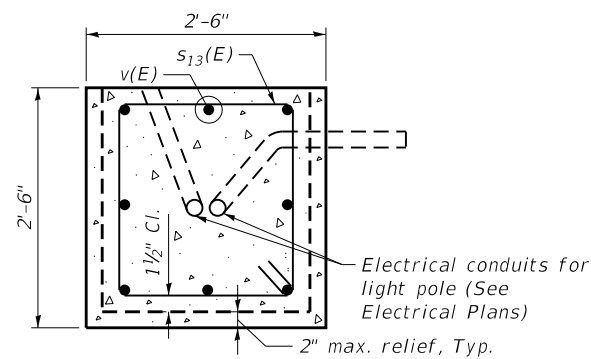
Formliner Coloration (Special) South, East and West Faces, Typ.



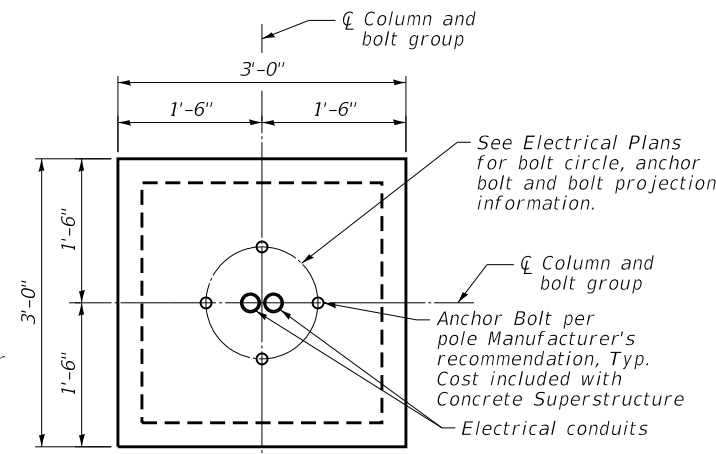
DECORATIVE COLUMN AESTHETIC TREATMENT DETAIL



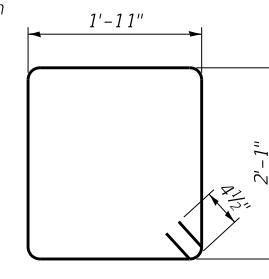
DECORATIVE COLUMN DETAIL (Looking South)



SECTION A-A

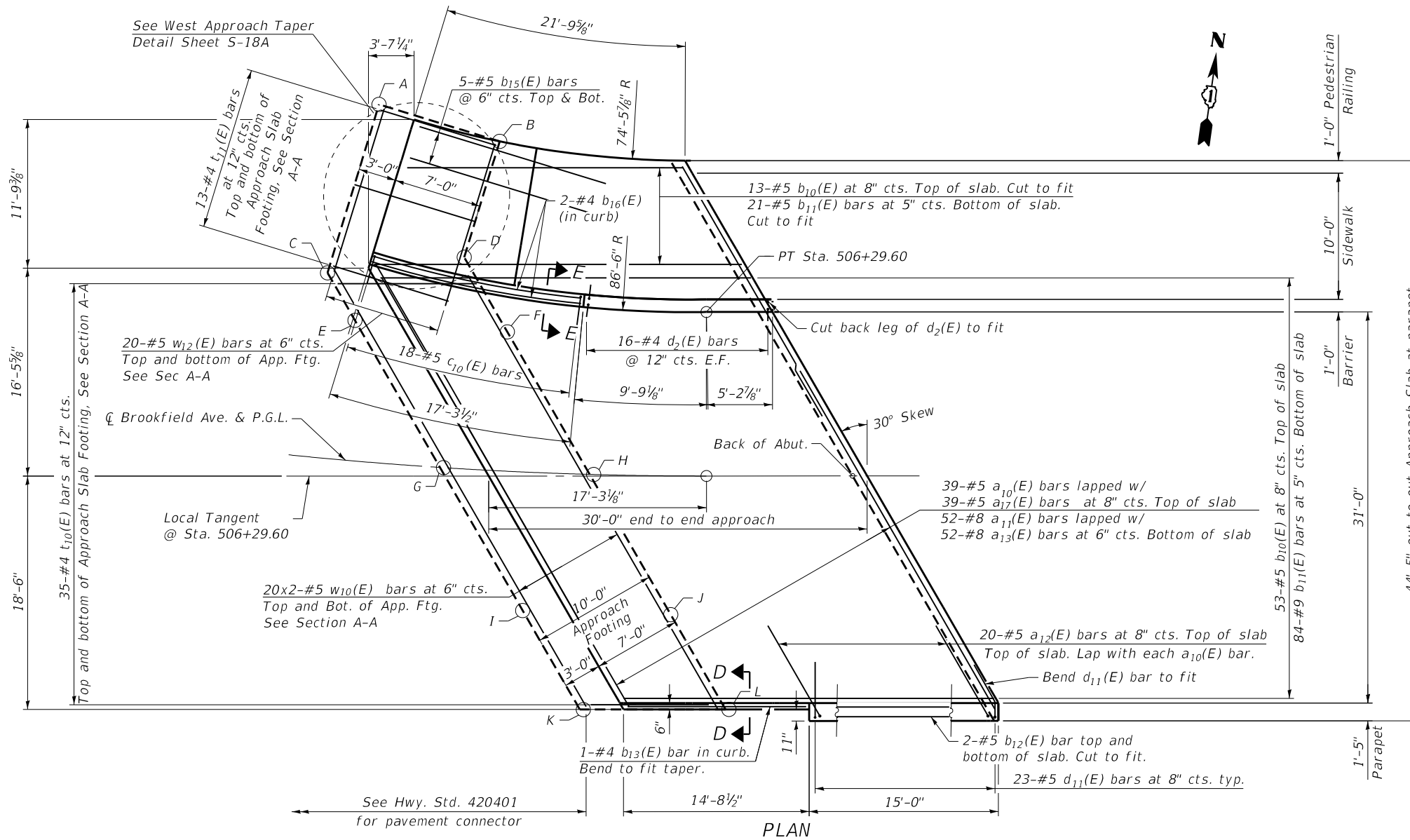


VIEW B-B



BAR s12(E)

DATE PLOTTED = 11/02/20 12:12:22 PM
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MINIMUM BAR LAP

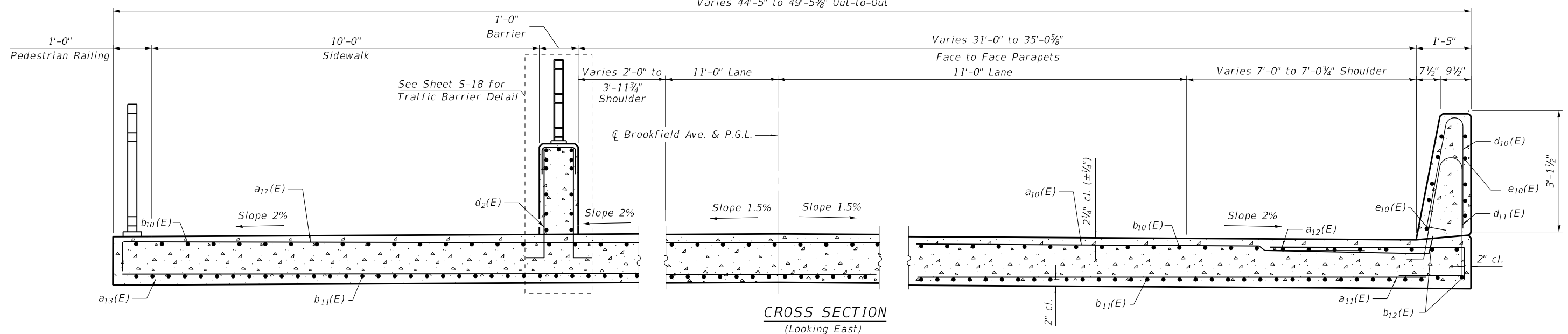
#5 bar = 3'-4"
#8 bar = 4'-9"

TOP AND BOTTOM ELEVATIONS FOR WEST APPROACH FOOTING

Point	Station	Offset	Top Footing Elevation	Bottom Footing Elevation
A	506+01.15	-28.32	618.15	617.31
B	506+11.79	-26.08	618.31	617.47
C	505+98.11	-14.66	618.45	617.62
D	506+09.36	-16.75	618.47	617.64
E	506+00.81	-11.00	618.66	617.83
F	506+12.48	-11.00	618.72	617.88
G	506+07.66	0.00	618.93	618.10
H	506+19.54	0.00	618.98	618.15
I	506+14.71	11.00	618.87	618.03
J	506+26.06	11.00	618.91	618.08
K	506+20.11	18.65	618.65	617.81
L	506+31.11	18.50	618.58	617.75

NOTES:

- See Sheet S-18 for Sections D-D, Bill of Material and Bar Bending Details.
- Bars indicated 52x2-#8 etc. indicates 52 lines of bars with 2 lengths per line.
- See Sheet S-19 for West Approach Taper Detail and Section E-E.



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USER NAME = Structural	DESIGNED - MLK	REVISED -
PLOT SCALE = 0:2.0000" = 1"	CHECKED - BWS	REVISED -
PLOT DATE = 11/02/20	DRAWN - SBA	REVISED -
	DATE - 11/02/20	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

0" R

**WEST APPROACH SLAB DETAILS
STRUCTURE NO. 016-6666**

SHEET 5-16 OF 5-35 SHEETS

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	82
CONTRACT NO.			61G22	
ILLINOIS FED. AID PROJECT				



MINIMUM BAR LAP

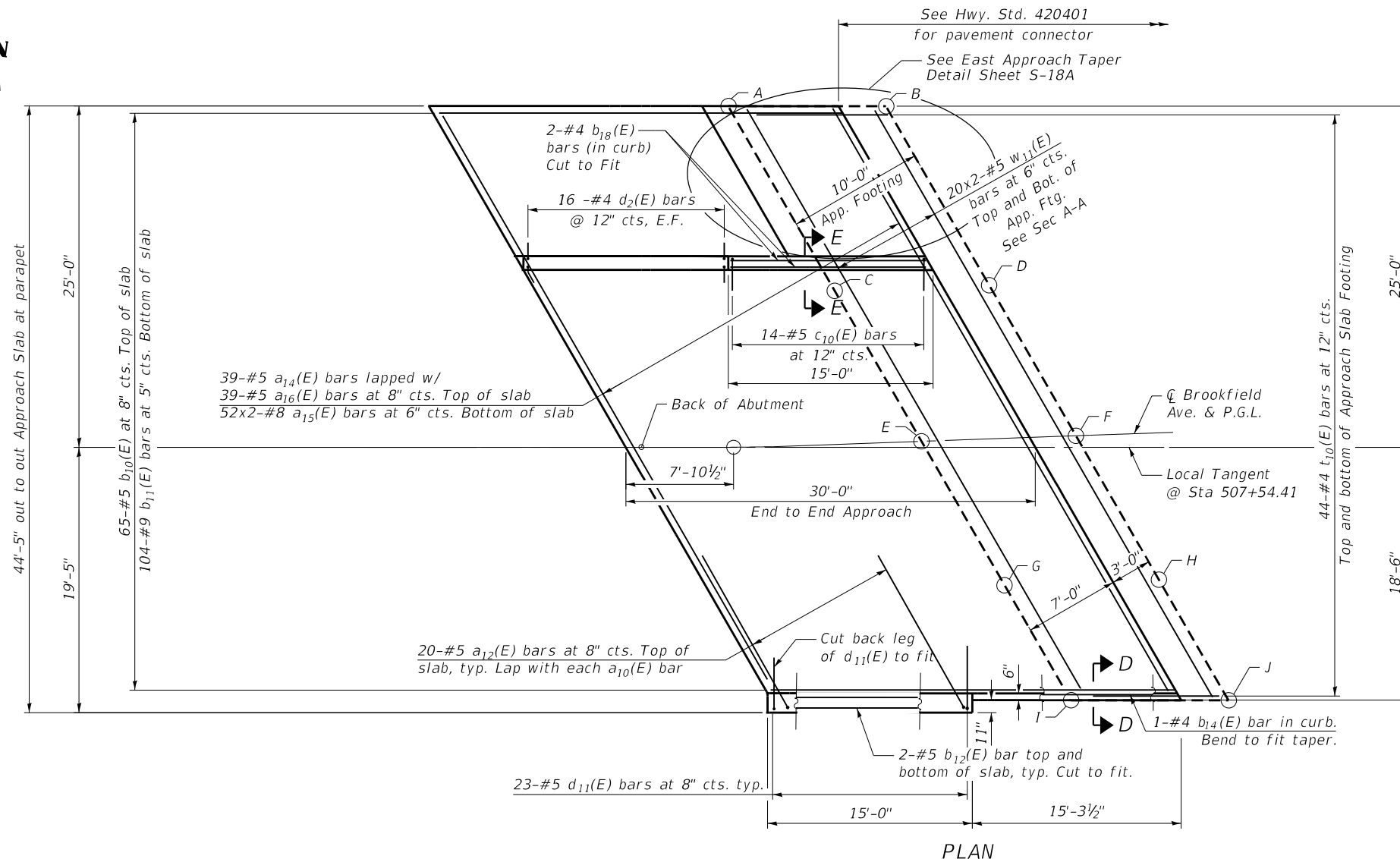
#5 bar = 3'-4"
#8 bar = 4'-9"

TOP AND BOTTOM ELEVATIONS FOR WEST APPROACH FOOTING

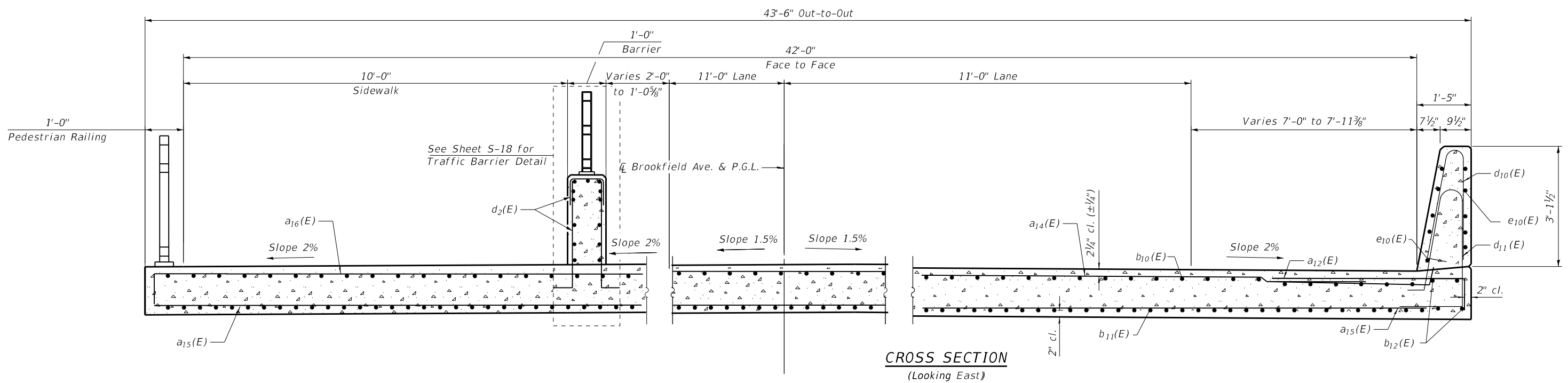
Point	Station	Offset	Top Footing Elevation	Bottom Footing Elevation
A	507+57.20	-24.99	618.29	617.45
B	507+69.37	-24.66	618.15	617.32
C	507+65.25	-11.00	618.64	617.80
D	507+75.57	-11.00	618.66	617.83
E	507+71.07	0.00	618.81	617.97
F	507+82.37	0.00	618.83	617.99
G	507+76.87	11.00	618.85	618.01
H	507+88.18	11.00	618.87	618.03
I	507+81.26	19.32	618.62	617.78
J	507+92.80	19.77	618.62	617.79

NOTES:

- See Sheet S-18 for Section E-E, Bill of Material, and Bar Bending Details.
- Bars indicated 52x2-#8 etc. indicates 52 lines of bars with 2 lengths per line.
- See Sheet S-19 for West Approach Taper Detail and Section E-E.



PLAN



CROSS SECTION (Looking East)

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USER NAME = Structural	DESIGNED - MLK	REVISED -
PLOT SCALE = 0:2,0000 "x" / in.	CHECKED - BWS	REVISED -
PLOT DATE = 11/02/20	DRAWN - SBA	REVISED -
	DATE - 11/02/20	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

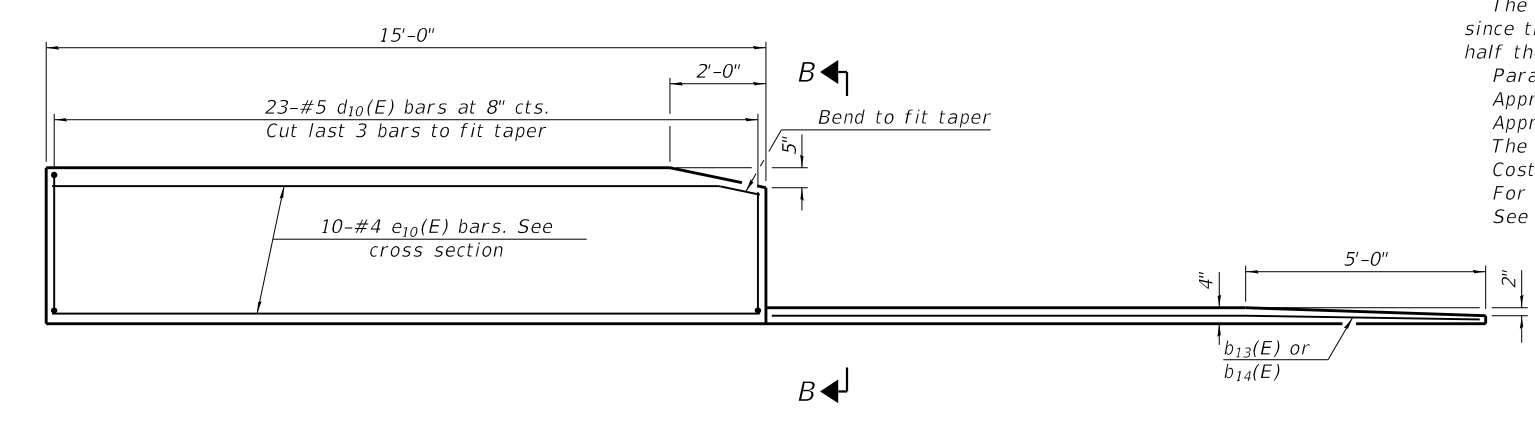
**EAST APPROACH SLAB DETAILS
STRUCTURE NO. 016-6666**

SHEET S-17 OF S-35 SHEETS

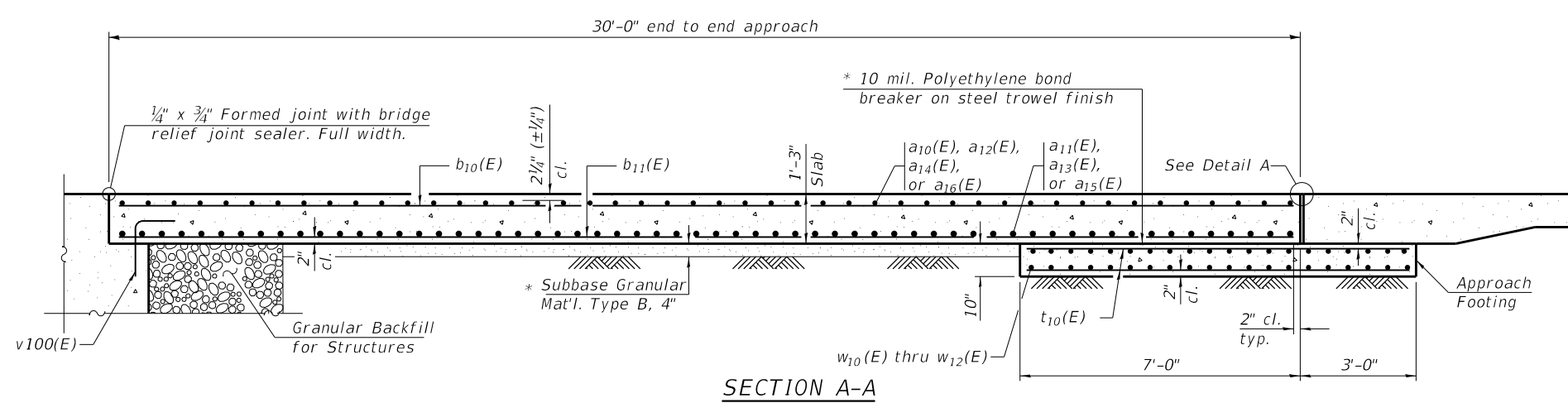
FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	83
CONTRACT NO.			61G22	
ILLINOIS FED. AID PROJECT				

Notes:
 The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.
 Parapet concrete shall be paid for as Concrete Superstructure.
 Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
 Approach footing concrete shall be paid for as Concrete Structures.
 The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
 Cost of excavation for approach footing included with Concrete Structures.
 For Granular Backfill for Structures and drainage treatment details, see sheet S-2 of S-35.
 See Sheet S-20 for Traffic Barrier Details.

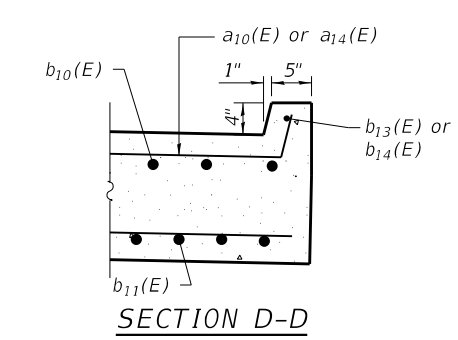
TWO APPROACHES
BILL OF MATERIAL



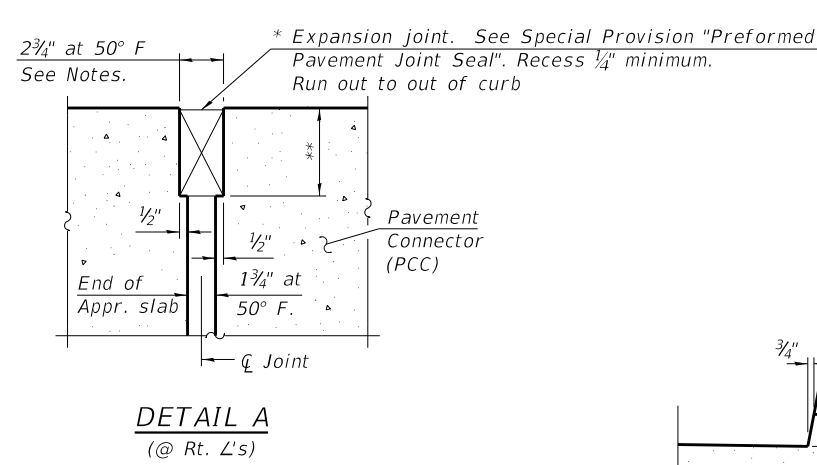
INSIDE ELEVATION OF SOUTH PARAPET AND CURB



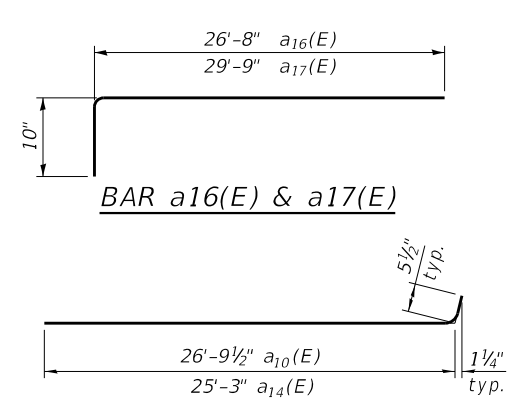
SECTION A-A



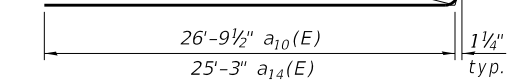
SECTION D-D



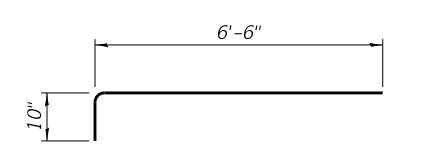
DETAIL A
 (@ Rt. L's)



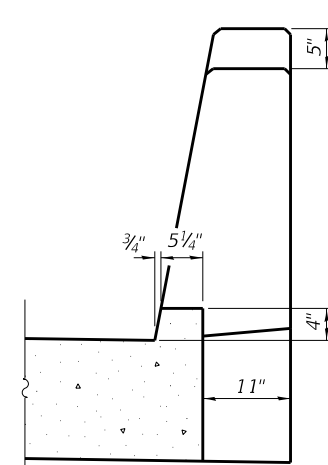
BAR a16(E) & a17(E)



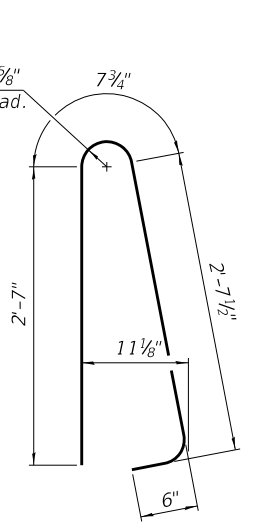
BAR a10(E) & a14(E)



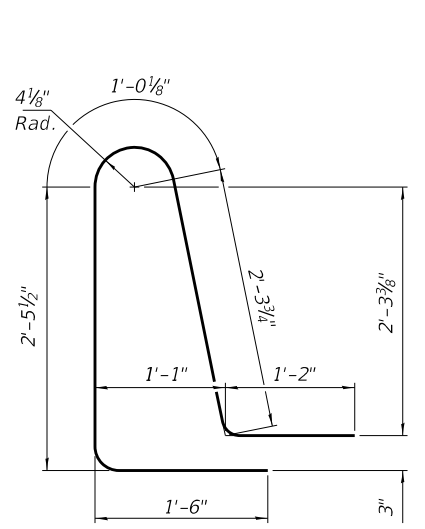
BAR a12(E)



VIEW B-B



BAR d10(E)



BAR d11(E)

Bar	No.	Size	Length	Shape
a ₁₀ (E)	39	#5	27'-3"	—
a ₁₁ (E)	52	#8	32'-3"	—
a ₁₂ (E)	40	#5	7'-4"	—
a ₁₃ (E)	52	#8	26'-3"	—
a ₁₄ (E)	39	#5	25'-9"	—
a ₁₅ (E)	104	#8	27'-6"	—
a ₁₆ (E)	39	#5	27'-6"	—
a ₁₇ (E)	39	#5	30'-7"	—
b ₁₀ (E)	131	#5	29'-8"	—
b ₁₁ (E)	209	#9	29'-8"	—
b ₁₂ (E)	4	#5	14'-8"	—
b ₁₃ (E)	1	#4	14'-4"	—
b ₁₄ (E)	1	#4	14'-11"	—
b ₁₅ (E)	10	#5	13'-6"	—
b ₁₆ (E)	2	#4	16'-11"	—
b ₁₇ (E)	24	#4	9'-8"	—
b ₁₈ (E)	2	#4	14'-8"	—
c ₁₀ (E)	32	#5	4'-5"	—
c ₁₁ (E)	7	#5	12'-8"	—
c ₁₂ (E)	7	#5	14'-4"	—
d ₂ (E)	64	#4	3'-9"	—
d ₃ (E)	24	#4	2'-0"	—
d ₁₀ (E)	46	#5	6'-5"	—
d ₁₁ (E)	46	#5	8'-6"	—
e ₄ (E)	12	#4	14'-8"	—
e ₅ (E)	4	#4	13'-8"	—
e ₆ (E)	4	#4	9'-8"	—
e ₇ (E)	6	#4	14'-9"	—
e ₁₀ (E)	20	#4	14'-8"	—
t ₁₀ (E)	158	#4	11'-2"	—
t ₁₁ (E)	26	#4	9'-8"	—
w ₁₀ (E)	80	#5	21'-8"	—
w ₁₁ (E)	80	#5	26'-8"	—
w ₁₂ (E)	40	#5	13'-6"	—
Concrete Superstructure		Cu Yd	6.9	
Protective Coat		Sq Yd	308	
Bridge Deck Grooving		Sq Yd	193	
Concrete Superstructure (Approach Slab)		Cu Yd	123.9	
Concrete Structures		Cu Yd	31.9	
Reinforcement Bars, Epoxy Coated		Pound	23,370	

* Cost included with Concrete Superstructure (Approach Slab).
 ** Per manufacturer recommendations

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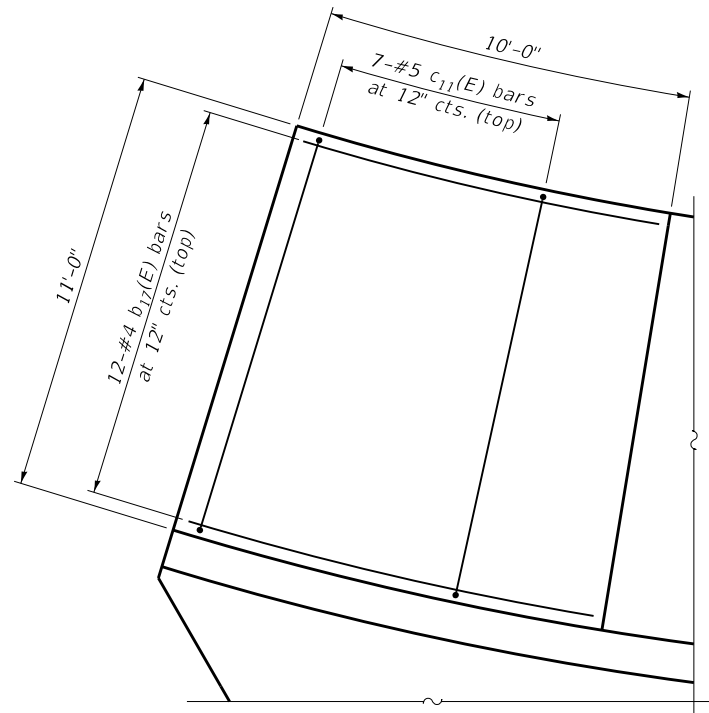
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

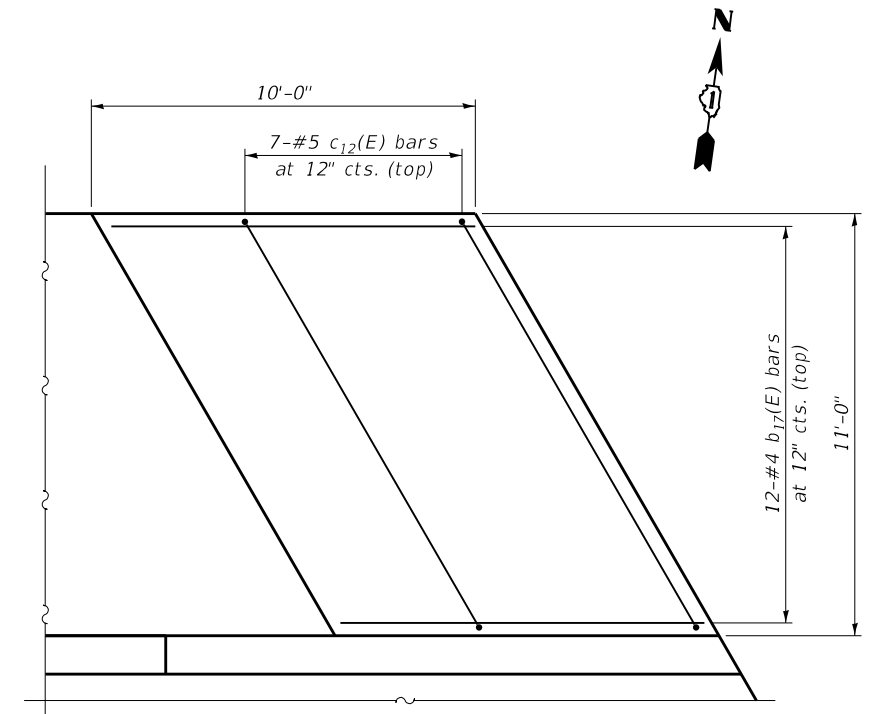
BRIDGE APPROACH SLAB DETAILS 1
STRUCTURE NO. 016-6666

SHEET 5-18 OF 5-35 SHEETS

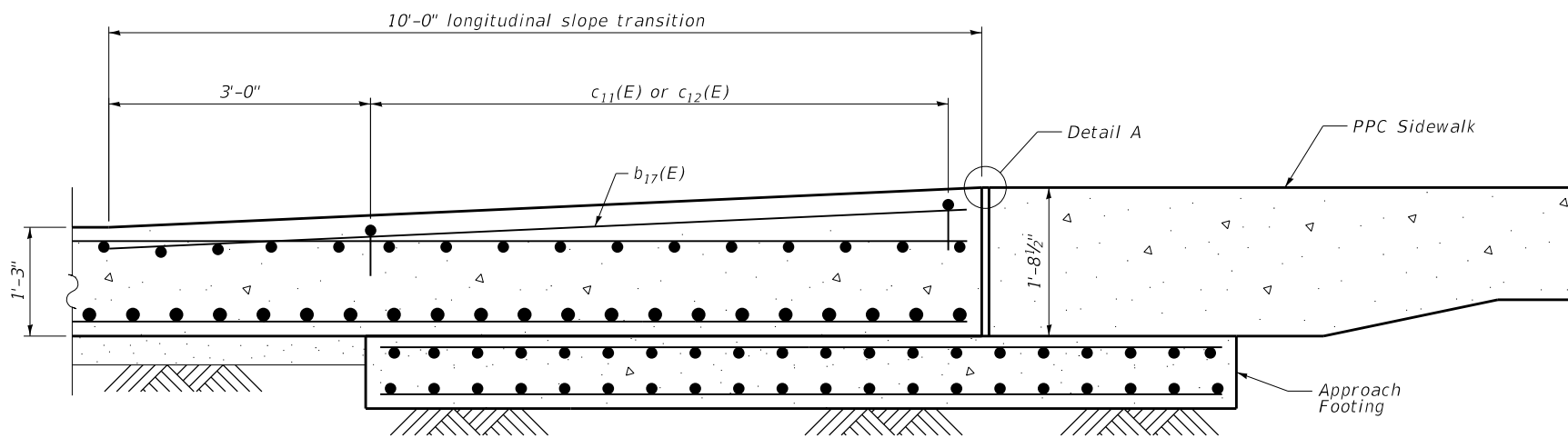
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CONTRACT NO.			61G22	
ILLINOIS FED. AID PROJECT				



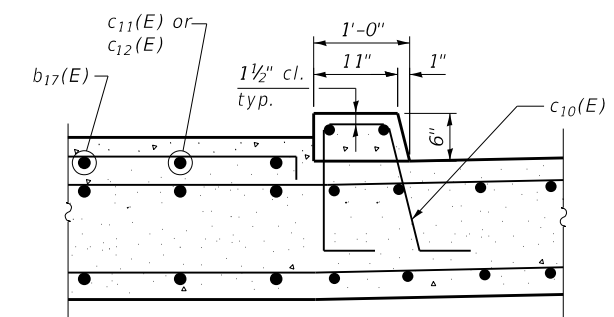
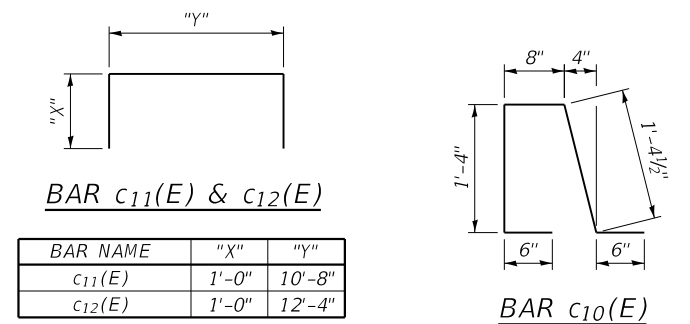
WEST APPROACH TAPER DETAIL



EAST APPROACH TAPER DETAIL



SECTION THROUGH TAPER

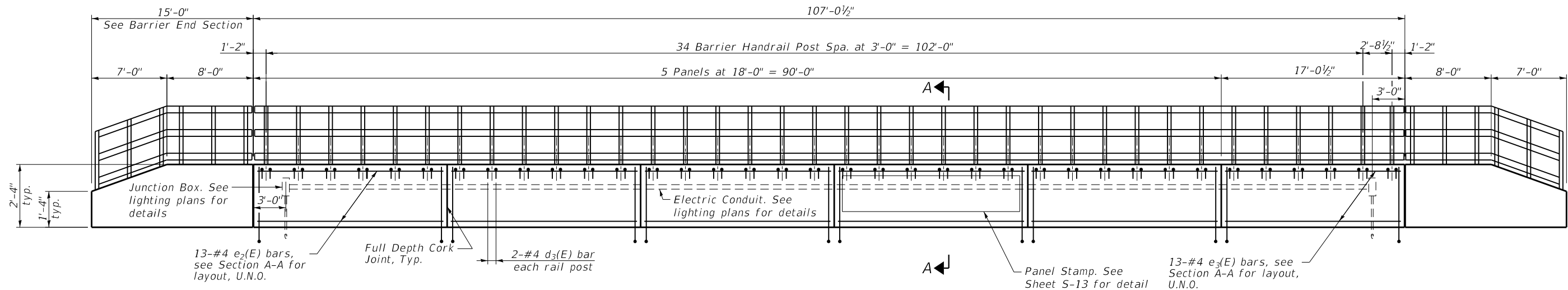


SECTION E-E

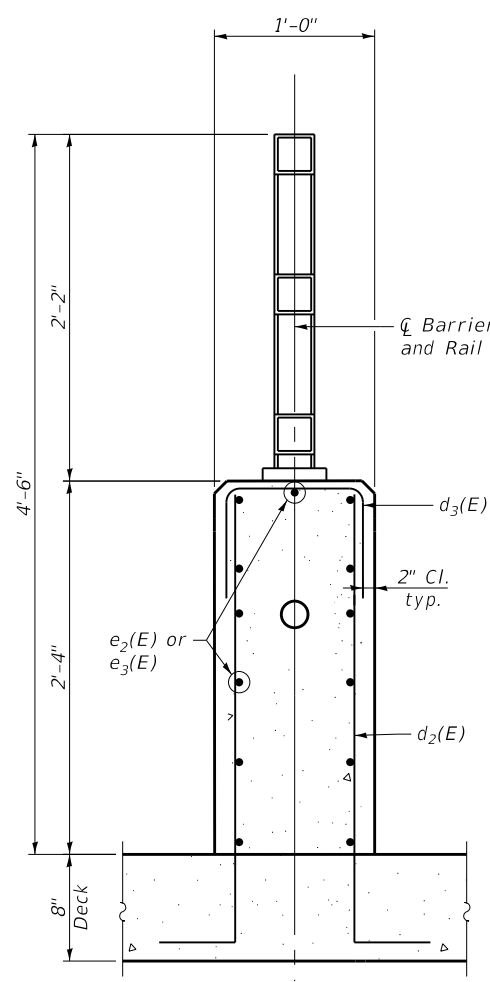
NOTE:

1. For Bill of Material and Detail A, see Sheet S-18.

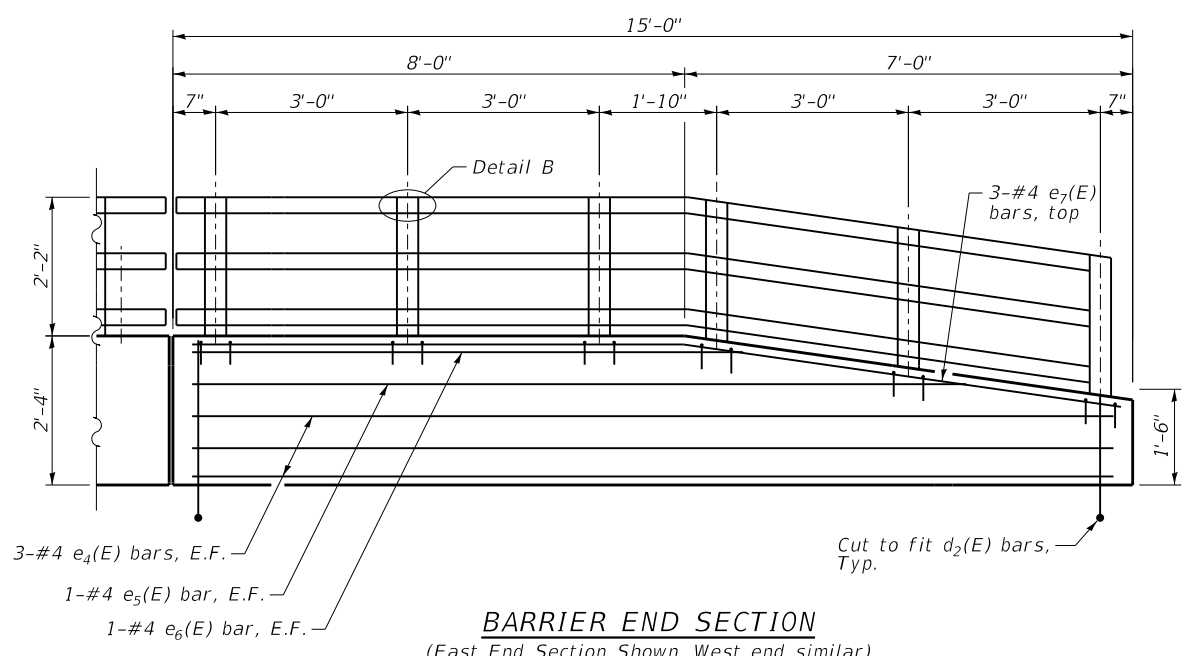
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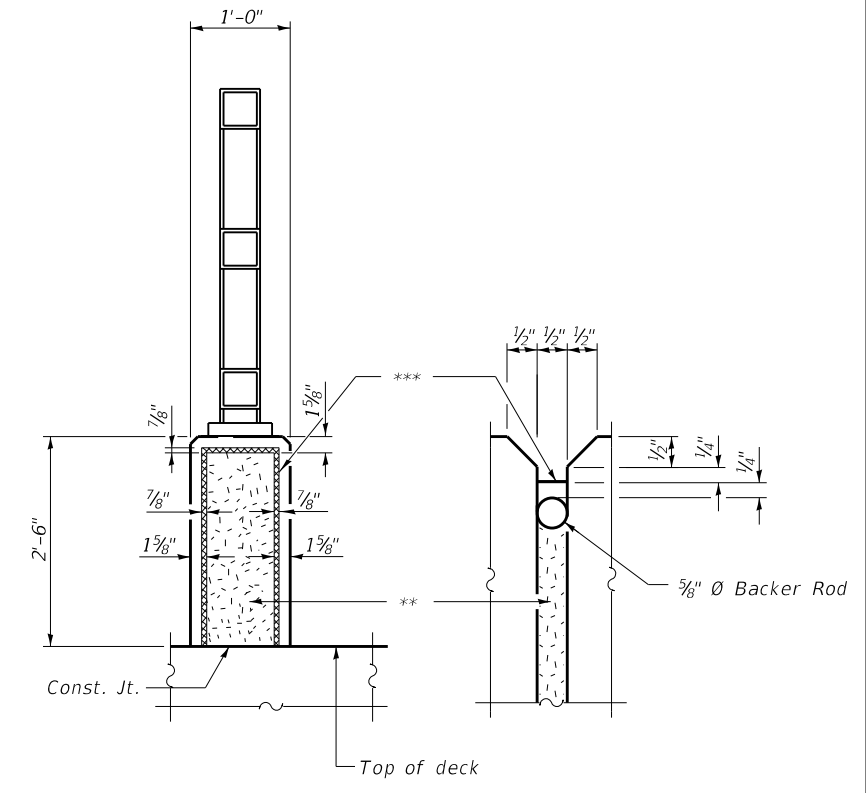
TRAFFIC BARRIER ELEVATION
(Looking North)



SECTION A-A

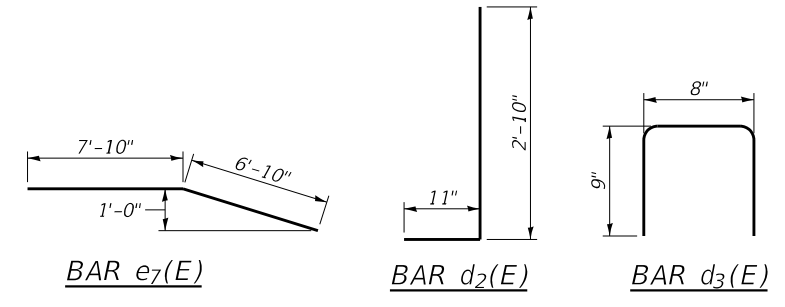


BARRIER END SECTION
(East End Section Shown, West end similar)



PARAPET JOINT DETAILS

** 1/2" Preformed self-expanding cork joint filler
*** 1/2" ployurethane sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.



NOTES:

- Hollow structural sections shall conform to the requirements of ASTM designation A 500, Grade B, structural steel tubing.
- All other steel shapes and plates shall conform to the requirements of AASHTO M 270 Grade 36.
- Reinforcement Bars and Concrete Superstructure are billed with the Superstructure and Approach Slabs on Sheets S-13 and S-18 respectively.
- For parapet railing details, see Sheet S-21.

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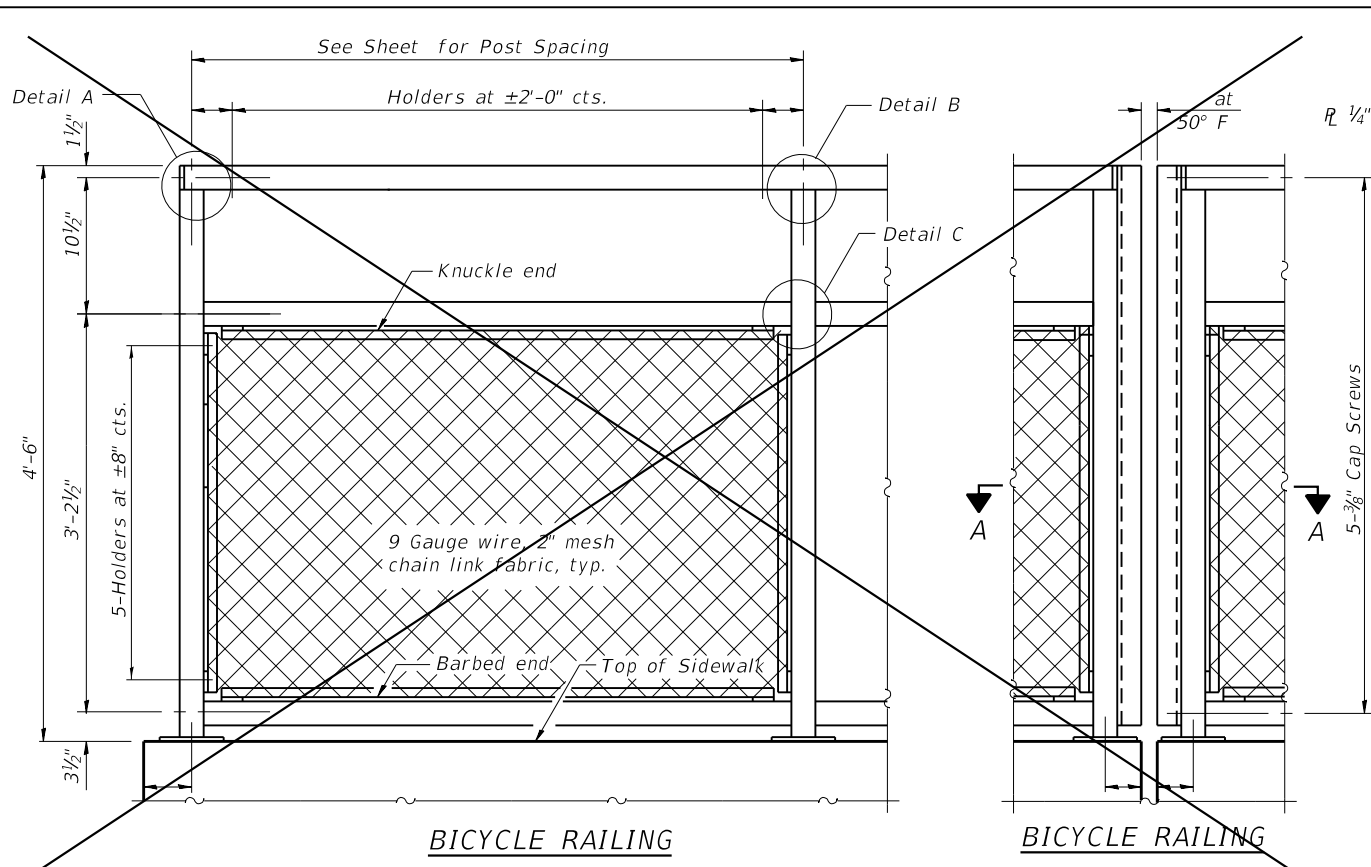
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

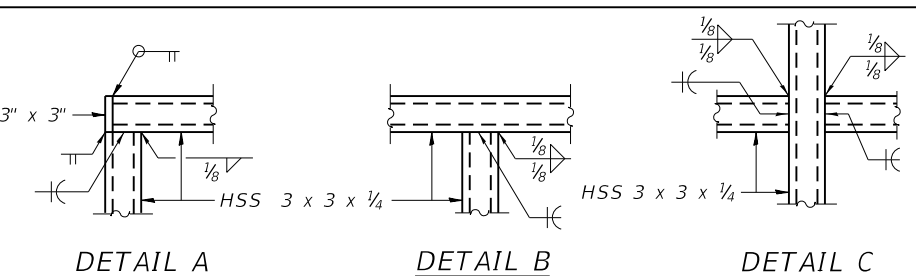
**TRAFFIC BARRIER DETAILS
STRUCTURE NO. 016-6666**

SHEET S-20 OF S-35 SHEETS

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO.			61G22	
ILLINOIS FED. AID PROJECT				

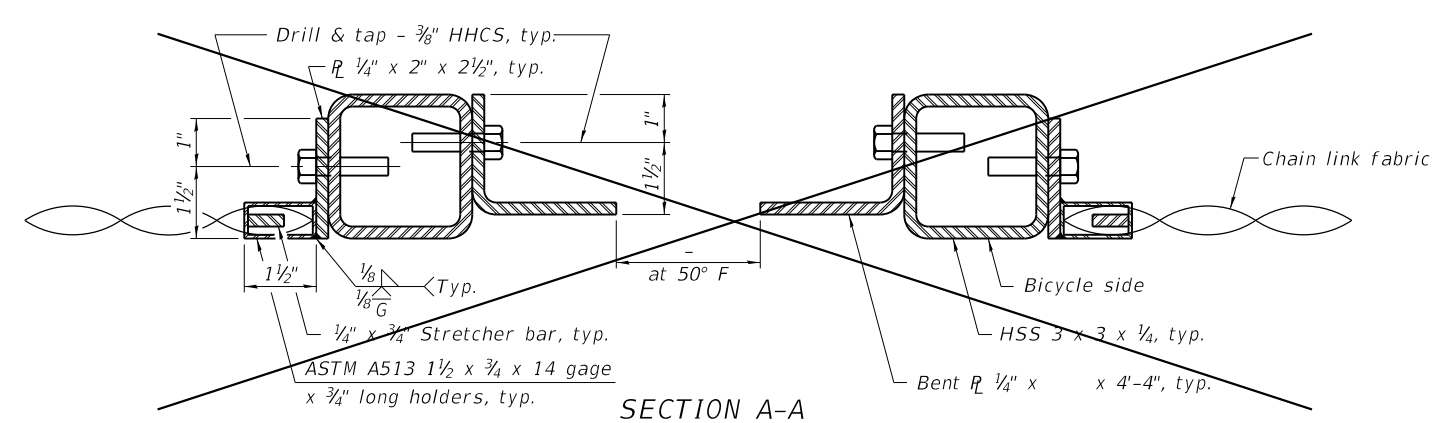


BICYCLE RAILING

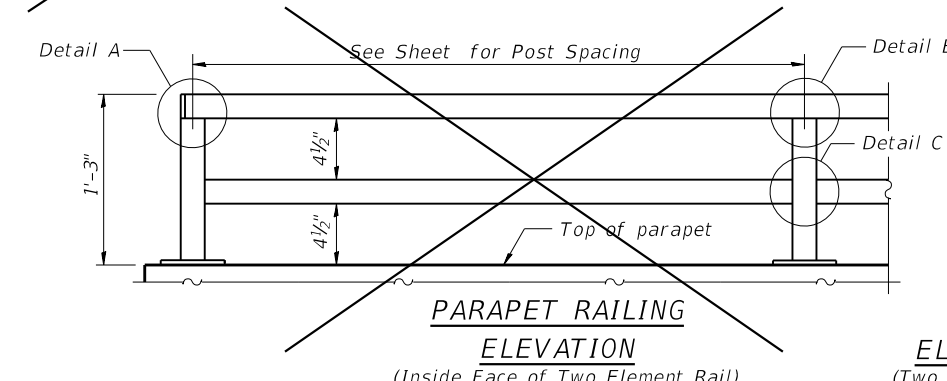


DETAIL A **DETAIL B** **DETAIL C**

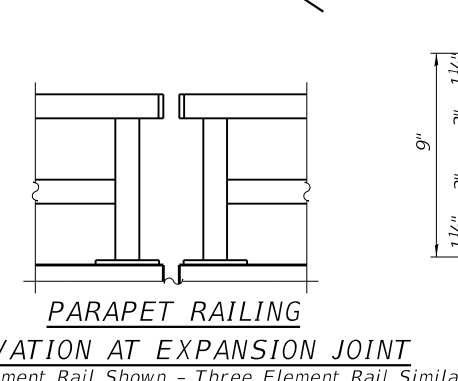
All post, railing, splices, anchor devices and bent plates shall be painted using the Inorganic zinc-rich primer / Acrylic / Acrylic paint system. The color of the final finish coat shall be Black.



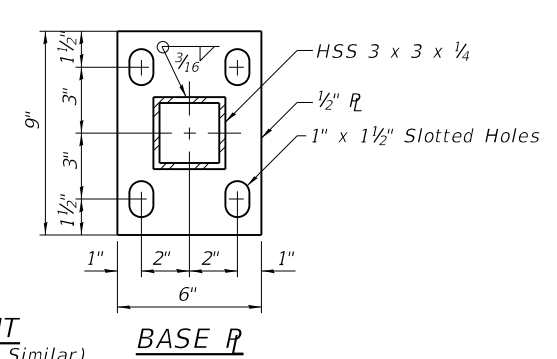
SECTION A-A



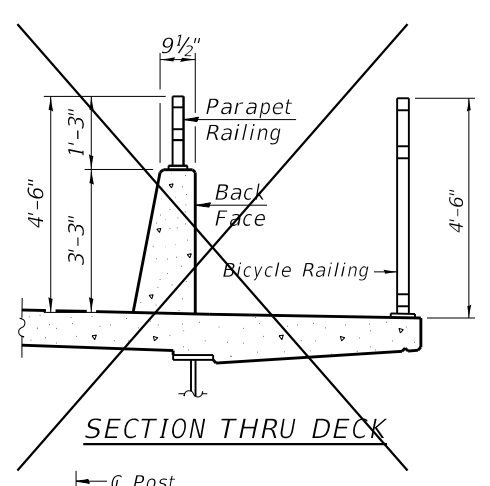
PARAPET RAILING ELEVATION
(Inside Face of Two Element Rail)



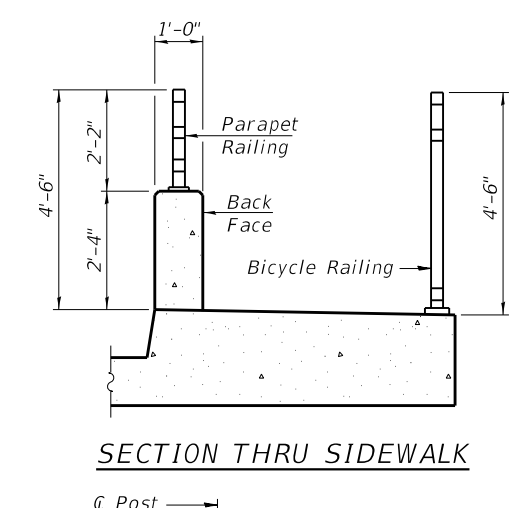
PARAPET RAILING ELEVATION AT EXPANSION JOINT
(Two Element Rail Shown - Three Element Rail Similar)



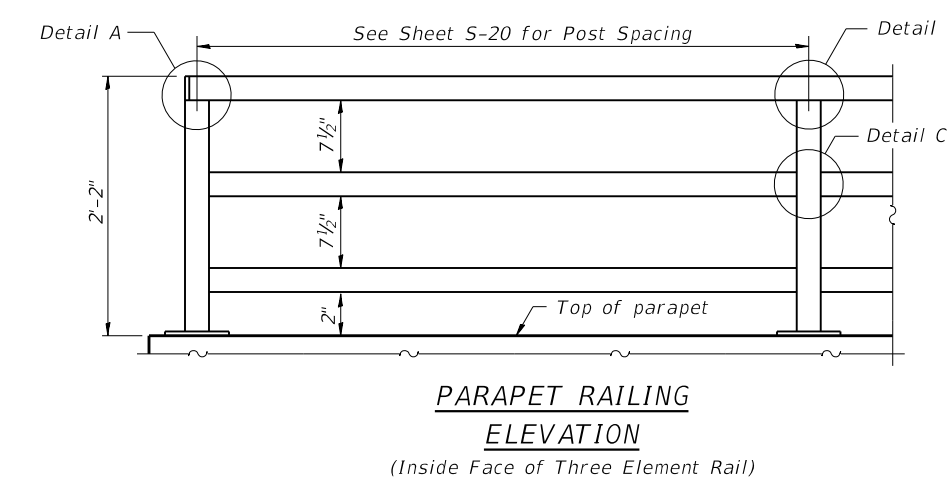
BASE R



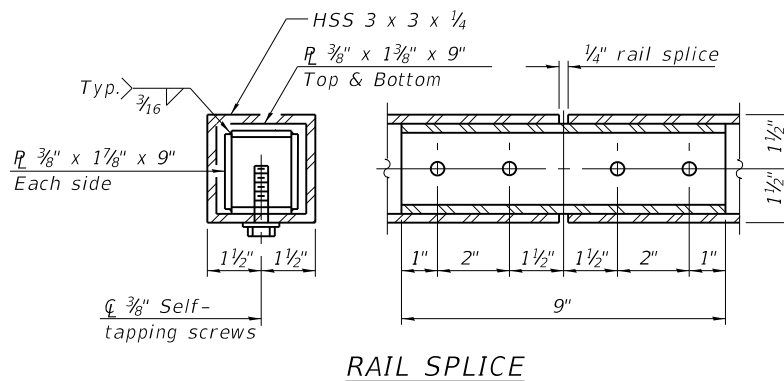
SECTION THRU DECK



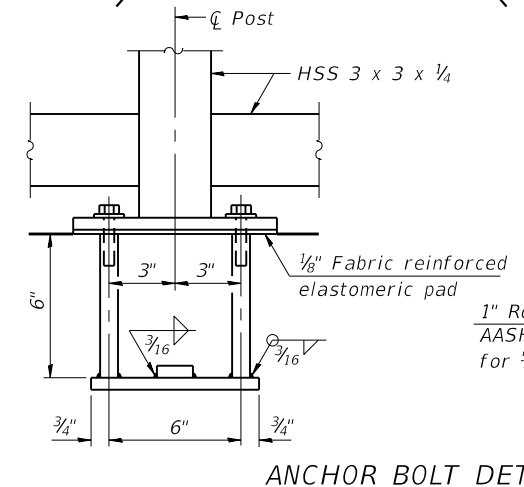
SECTION THRU SIDEWALK



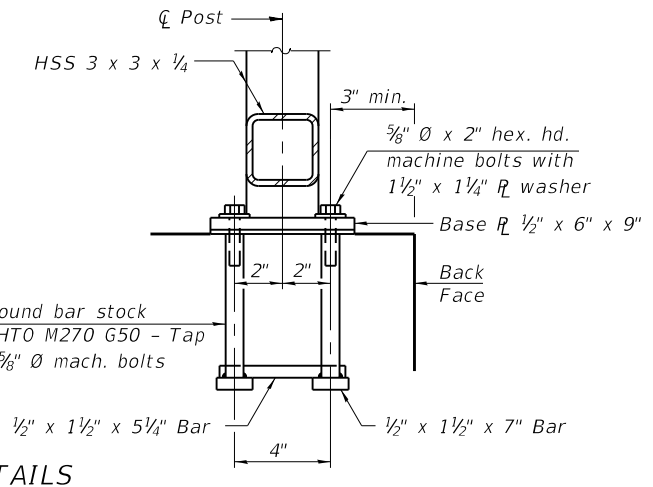
PARAPET RAILING ELEVATION
(Inside Face of Three Element Rail)



RAIL SPLICE



ANCHOR BOLT DETAILS



NOTES

All structural steel tubing, post and railing, for parapet railing shall be CVN tested according to 1006.34(b) of the Standard Specifications. CVN testing may be omitted for the Bicycle Railing.

All post, railing, splices, anchor devices and bent plates shall be painted using the Inorganic zinc-rich primer / Acrylic / Acrylic paint system. The color of the final finish coat shall be Black.

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" Ø anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

BILL OF MATERIAL

Item	Unit	Quantity
Parapet Railing	Foot	138

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R-29 1-14-2019 (10'-0" Maximum Post Spacing)



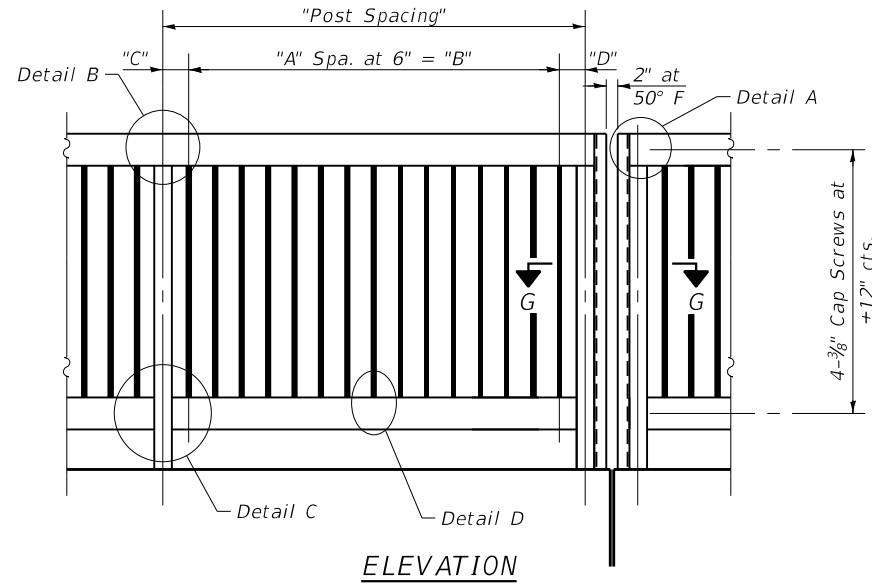
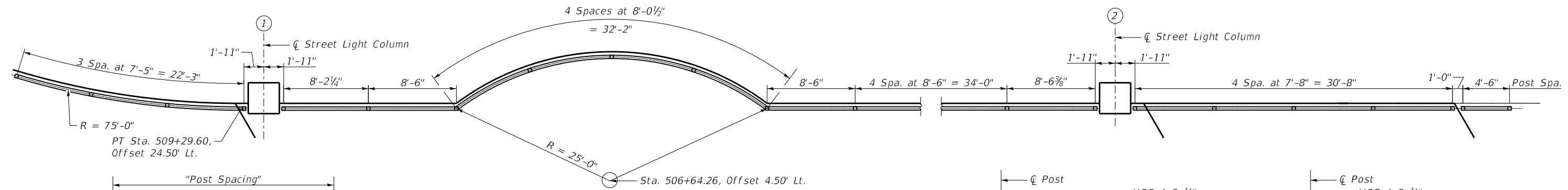
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARAPET RAILING DETAILS
STRUCTURE NO. 016-6666

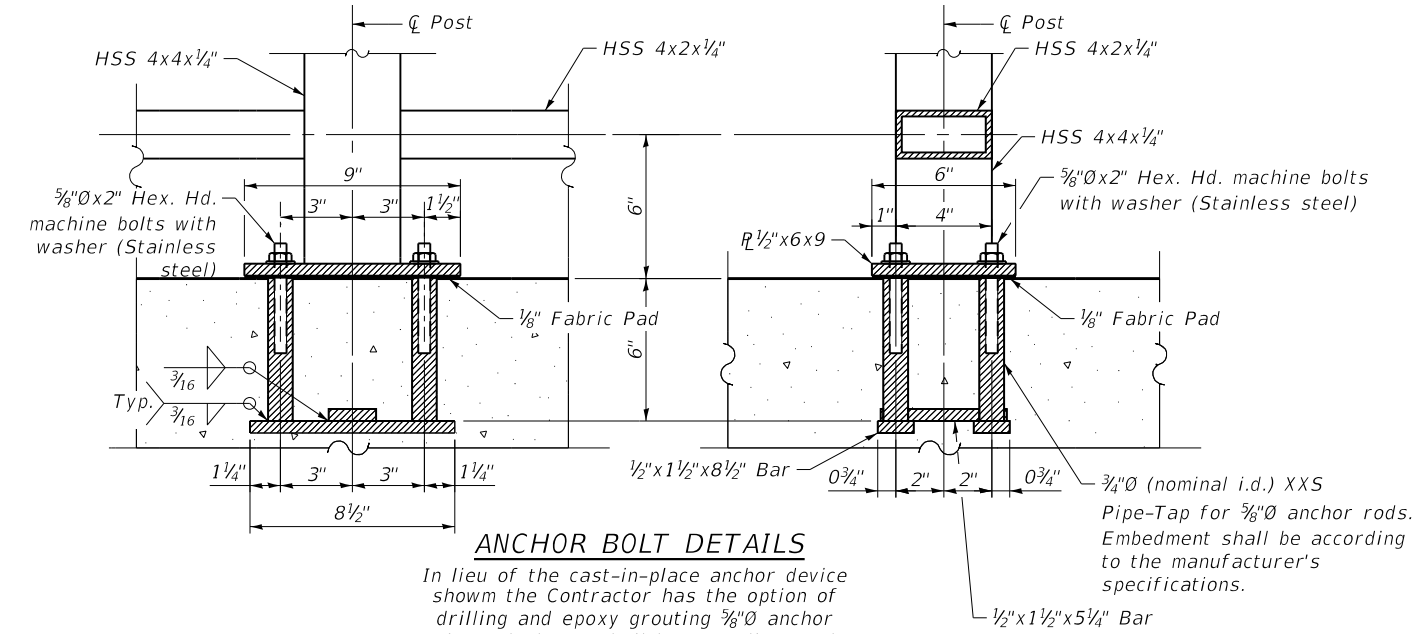
SHEET 5-21 OF 5-35 SHEETS

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO.			61G22	
ILLINOIS FED. AID PROJECT				



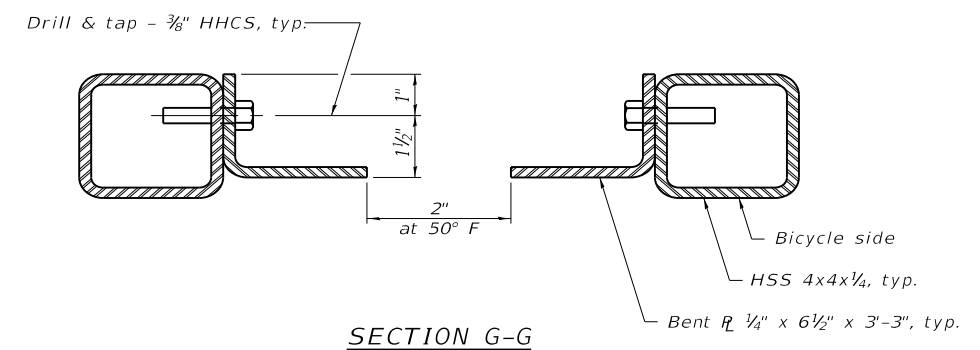
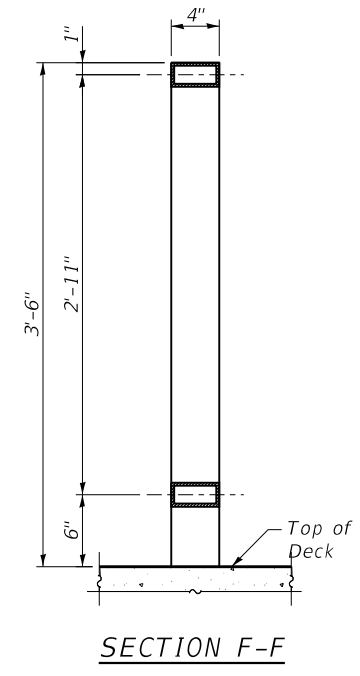
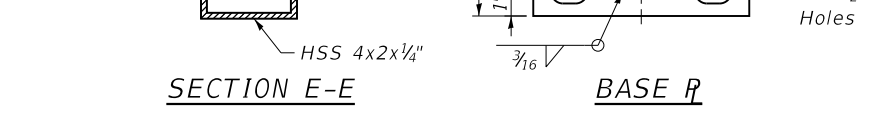
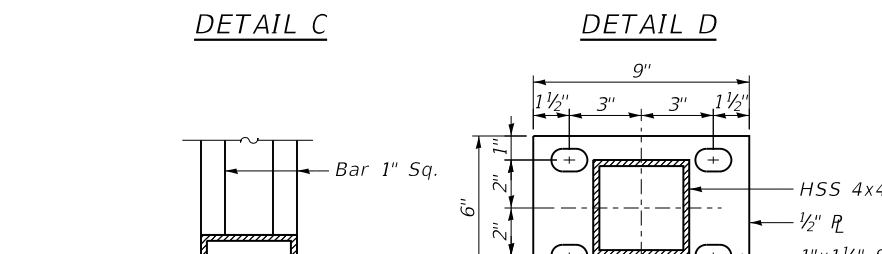
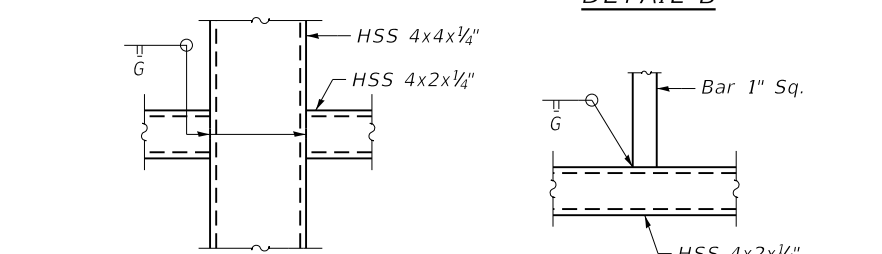
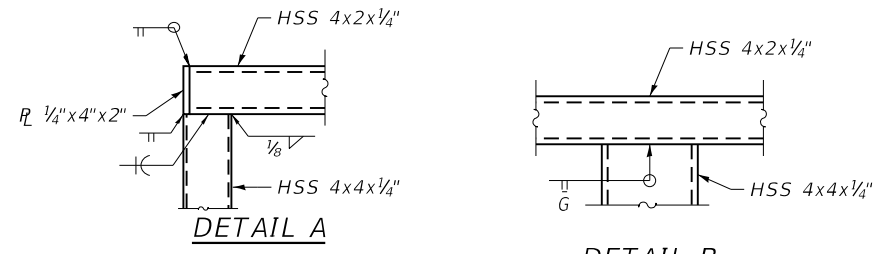
BAR SPACING TABLE

"Post Spacing"	"A"	"B"	"C"	"D"
4'-6"	7	3'-6"	6"	6"
7'-5"	13	6'-6"	5 1/2"	5 1/2"
7'-8"	13	6'-6"	7"	7"
8'-2 1/4"	14	7'-0"	7 1/8"	7 1/8"
8'-6"	15	7'-6"	6"	6"
8'-6 3/8"	15	7'-6"	6 1/8"	6 1/4"



ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown the Contractor has the option of drilling and epoxy grouting 5/8" anchor rods. Embedment shall be according to the manufacturer's specifications.



BILL OF MATERIAL

Item	Unit	Total
Pedestrian Railing	Each	158

- NOTES:**
- Pedestrian Railing shall be according to Section 509 of the Standard Specifications, except as noted, and will be paid for at the Contract Unit Price per for Pedestrian Railing.
 - Hollow structural sections shall conform to the requirements of ASTM designation A 500, Grade B, structural steel tubing.
 - All other steel shapes and plates shall conform to the requirements of AASHTO M 270 Grade 36.
 - If the option of drilling and epoxy grouting the anchor rods is chose, the Contractor shall use the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by the Department. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures. The capsule or the adhesive cartridge shall be sealed with pre-measured amounts of the adhesive chemical.
 - Space reinforcement to miss anchor rods.
 - All post, railing, splices, anchor devices and bent plates shall be painted using the Inorganic zinc-rich primer / Acrylic / Acrylic paint system. The color of the final finish coat shall be Black.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PEDESTRIAN RAIL DETAILS
STRUCTURE NO. 016-6666**

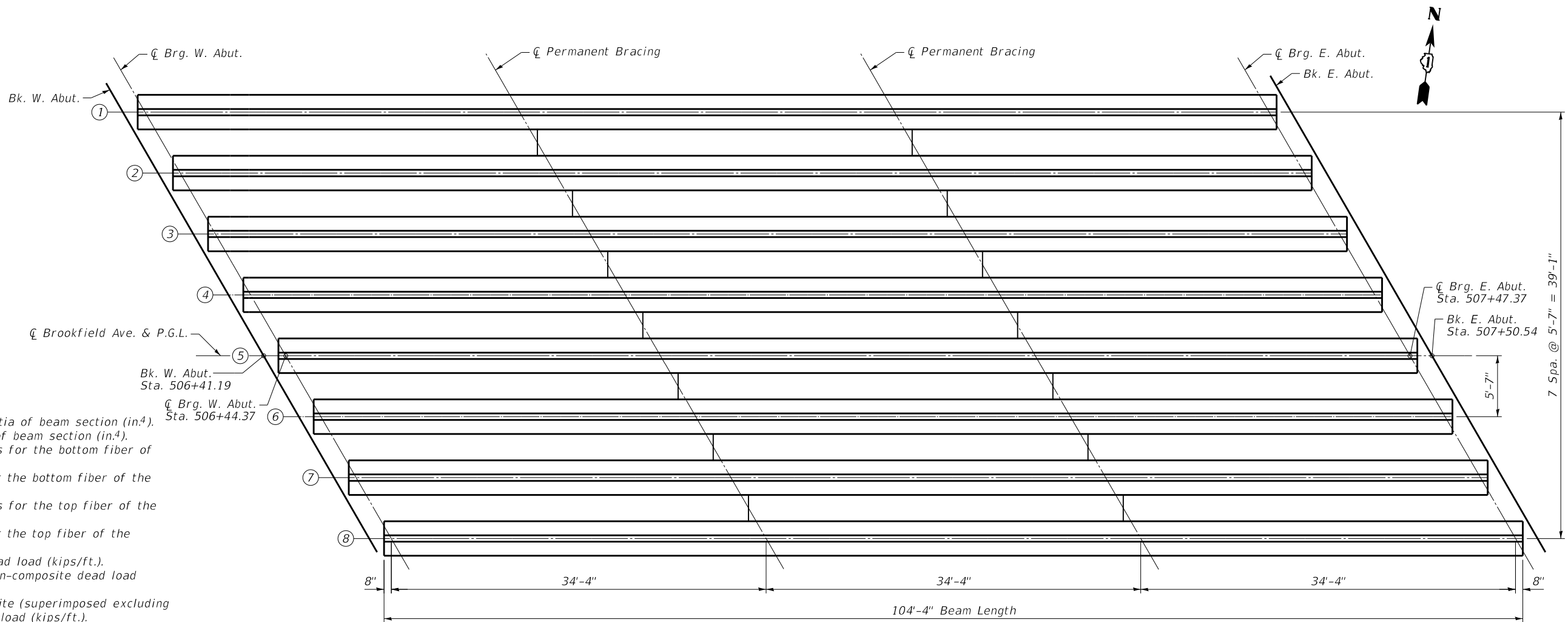
SHEET 5-22 OF 5-35 SHEETS

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	88
CONTRACT NO.			61G22	
ILLINOIS FED. AID PROJECT				

INTERIOR BEAM MOMENT TABLE	
0.5 Sp. 1	
I (in. ⁴)	124,639
I' (in. ⁴)	279,087
S _b (in. ³)	7,563
S _b ' (in. ³)	11,382
S _t (in. ³)	6,385
S _t ' (in. ³)	14,327
DC1 (kips/ft.)	1.48
M _{DC1} (kip-ft.)	1,958
DC2 (kips/ft.)	0.12
M _{DC2} (kip-ft.)	162
DW (kips/ft.)	0.19
M _{DW} (kip-ft.)	264
M _{L + IM} (kip-ft.)	1,431

INTERIOR BEAM REACTION TABLE	
East & West Abut.	
R _{DC1} (kips)	102.0
R _{DC2} (kips)	6.3
R _{DW} (kips)	13.0
R _{L + IM} (kips)	89.4
R _{Total} (kips)	210.7

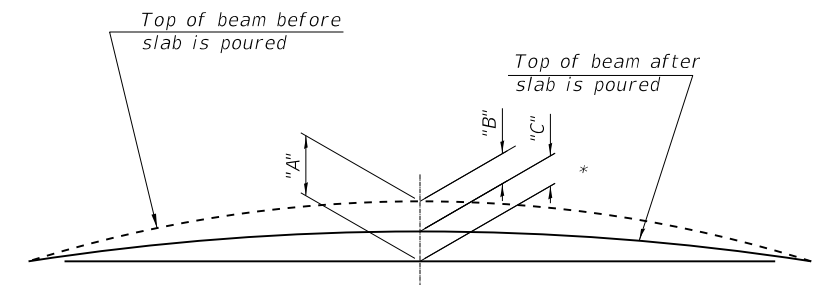
I: Non-composite moment of inertia of beam section (in.⁴).
 I': Composite moment of inertia of beam section (in.⁴).
 S_b: Non-composite section modulus for the bottom fiber of the prestressed beam (in.³).
 S_b': Composite section modulus for the bottom fiber of the prestressed beam (in.³).
 S_t: Non-composite section modulus for the top fiber of the prestressed beam (in.³).
 S_t': Composite section modulus for the top fiber of the prestressed beam (in.³).
 DC1: Un-factored non-composite dead load (kips/ft.).
 M_{DC1}: Un-factored moment due to non-composite dead load (kip-ft.).
 DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
 M_{DC2}: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
 DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
 M_{DW}: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
 M_{L + IM}: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).



FRAMING PLAN

- * "A" = Prestress Camber
- * "B" = Dead Load Deflection
- * "C" = Residual Camber
- * Round off to the nearest 1/8"

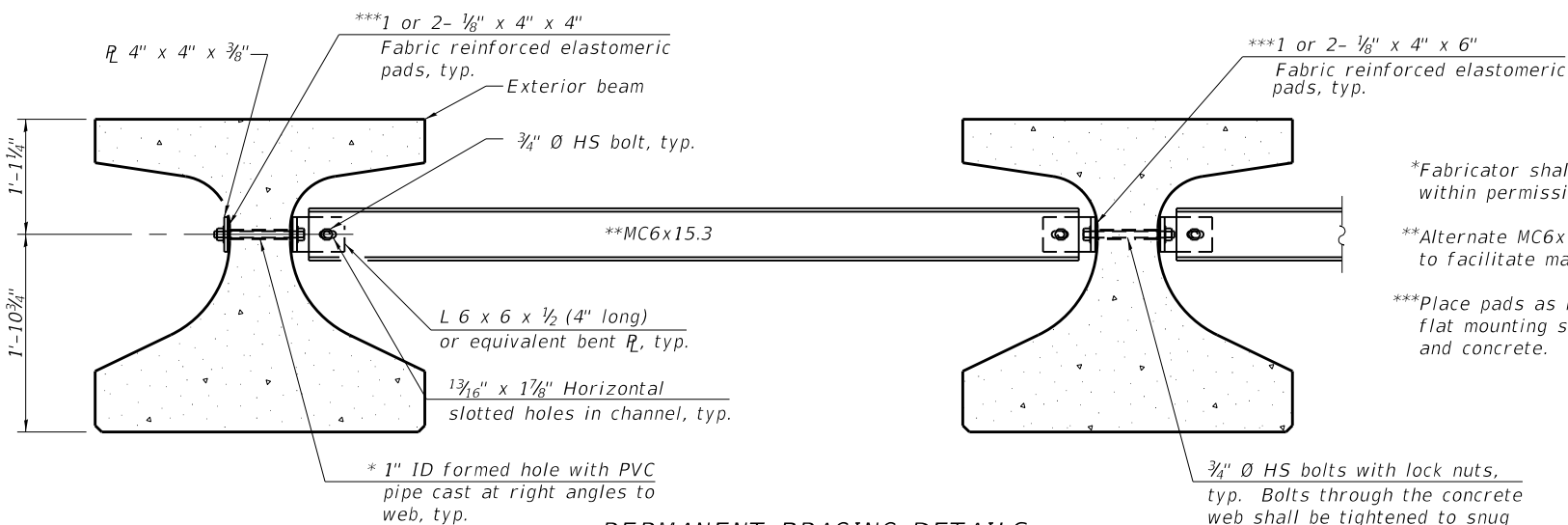
A	B	C
3 3/4"	2 3/8"	1 3/8"



CAMBER & DEFLECTION DIAGRAM

NOTES:

- All material for bracing shall be hot dip galvanized according to AASHTO M111 unless otherwise noted.
- Two hardened washers are required for each set of oversized holes.
- All holes shall be 1/16" Ø unless otherwise noted. 5/16" x 3" x 3" plate washers are required over all slotted holes.
- All bolts shall be galvanized according to AASHTO M232.
- Bracing shall be installed as beams are erected and tightened as soon as possible during erection.
- Permanent bracing shall not be paid for separately, but shall be included in the cost of Furnishing and Erecting Precast Prestressed Concrete Beams.



PERMANENT BRACING DETAILS

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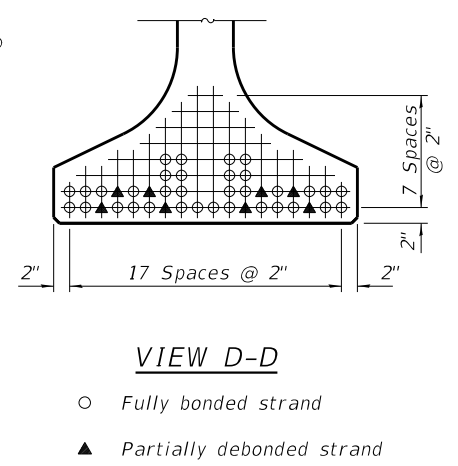
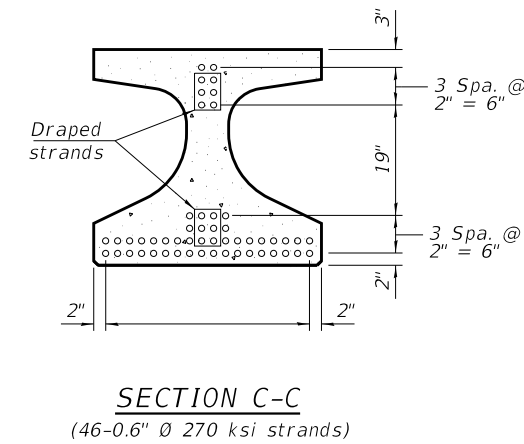
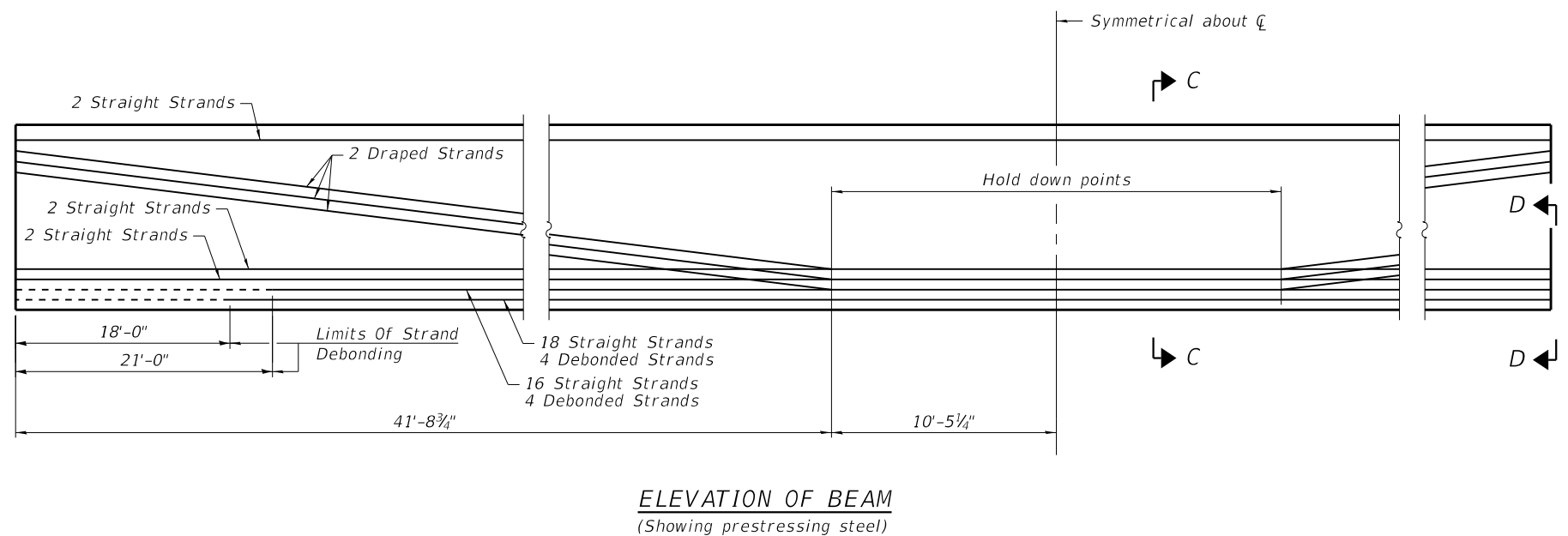
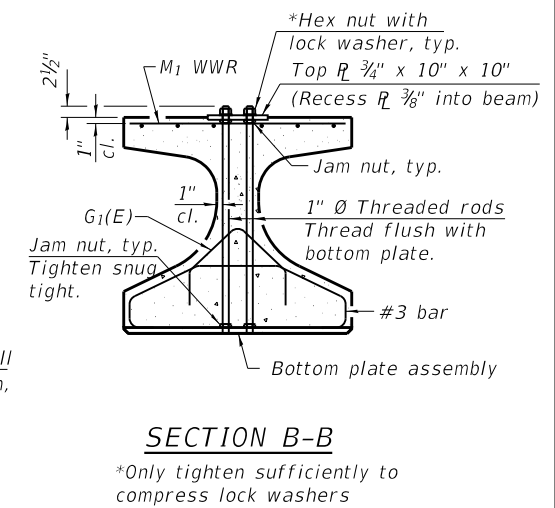
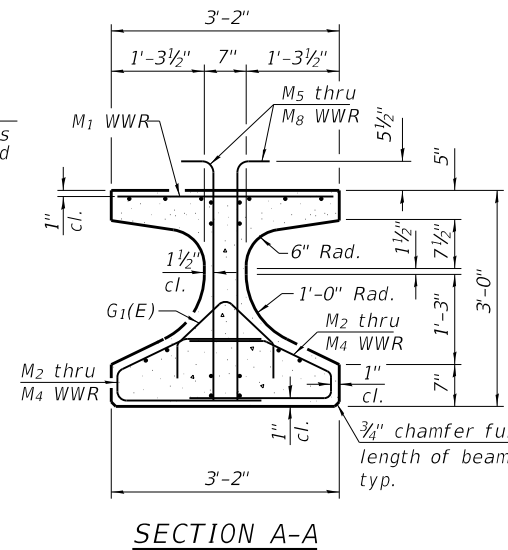
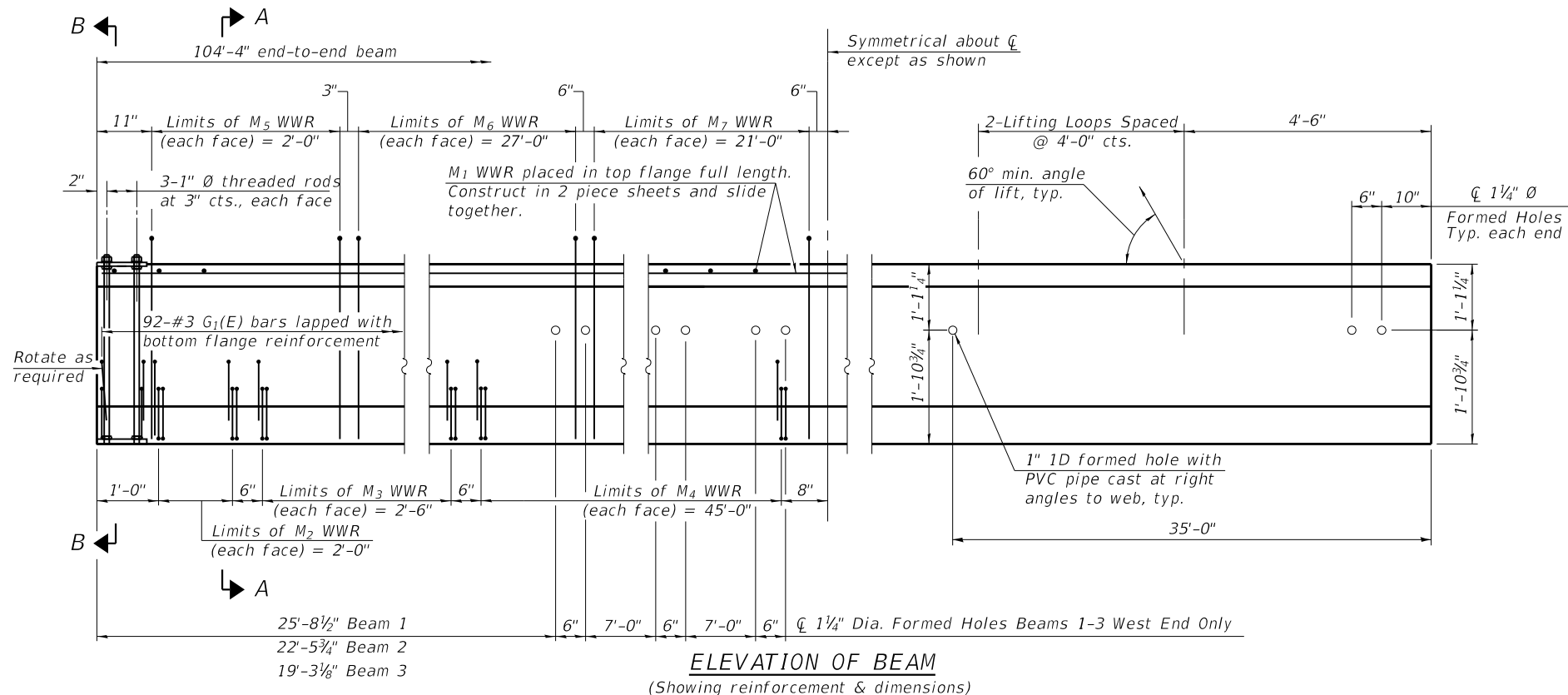
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FRAMING PLAN
STRUCTURE NO. 016-6666**

SHEET 5-23 OF 5-35 SHEETS

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	89
CONTRACT NO.			61G22	

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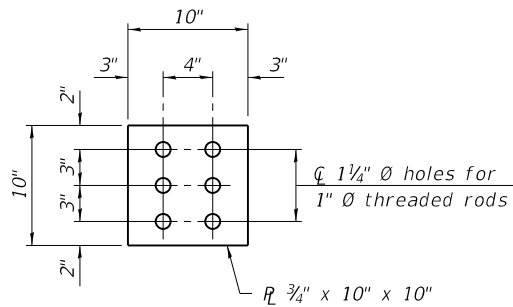


NOTE:
1. See Sheet S-25 for Additional Details and Bill of Materials.

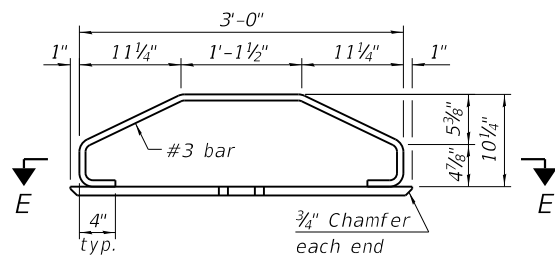
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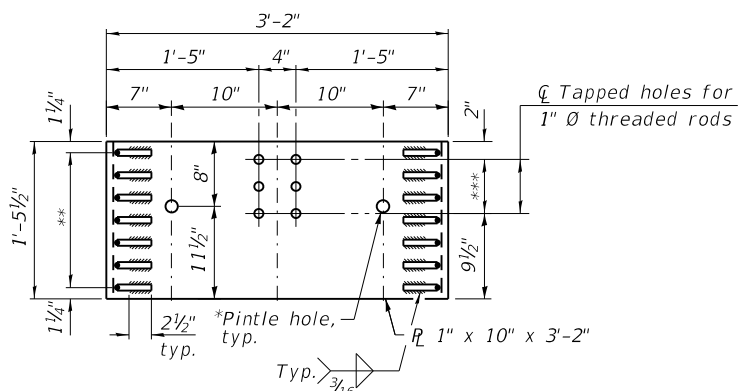
FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	90
CONTRACT NO.			61G22	
ILLINOIS FED. AID PROJECT				



PLAN - TOP PLATE



ELEVATION - BOTTOM PLATE ASSEMBLY

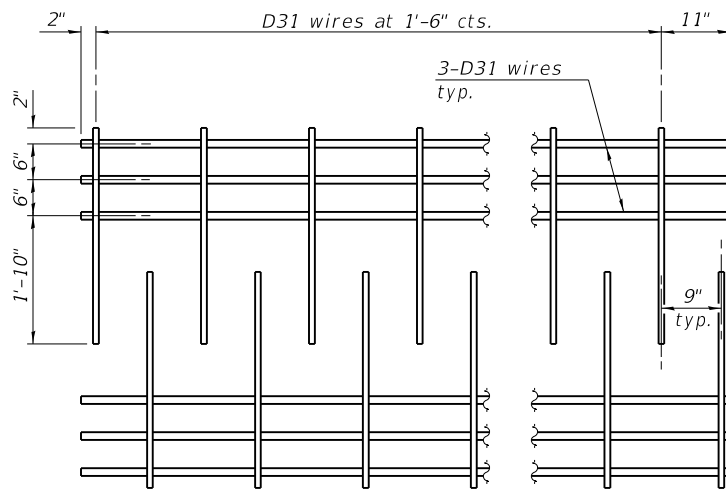


SECTION E-E - EXPANSION END

*1 3/8" Ø holes for Pintles. Plug before casting beam. One side of beam only.

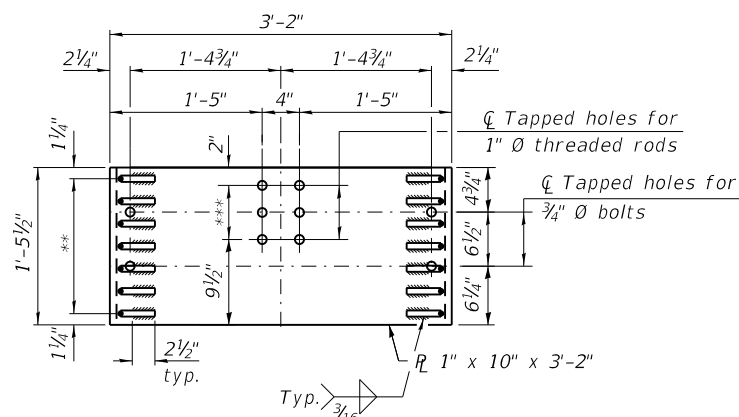
**6 Spaces at 2 1/2" = 1'-3"

***2 Spaces at 3" = 6"



M1 WWR DETAIL

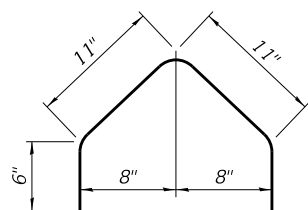
When multiple sheets of M1 WWR are required along the beam length, #5(E) bars (5'-0" long) shall be used to splice the longitudinal D31 wires together (Min. Lap 2'-2").



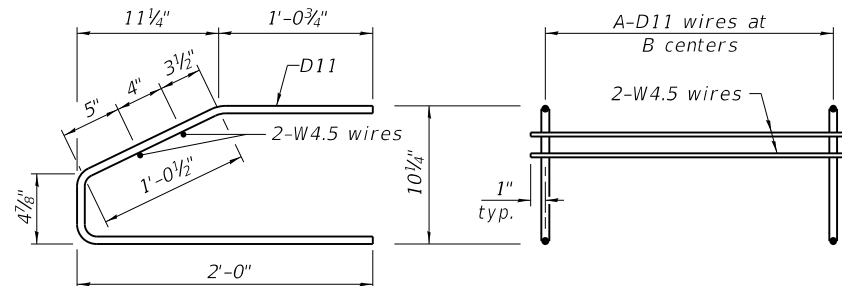
SECTION E-E - FIXED END

**6 Spaces at 2 1/2" = 1'-3"

***2 Spaces at 3" = 6"



BAR G1(E)

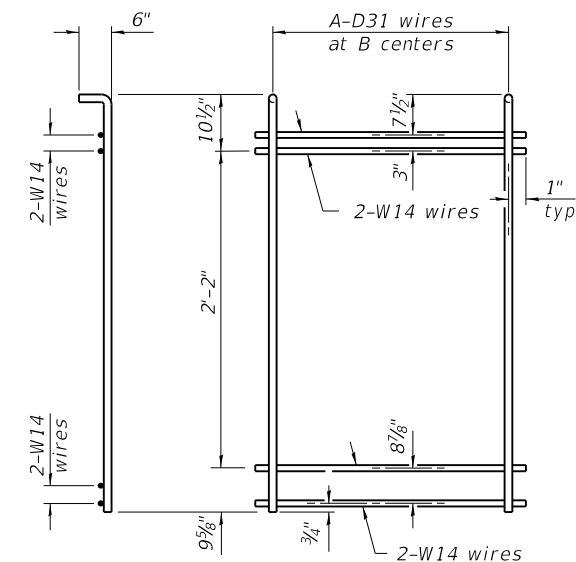


M2 THRU M4 WWR DETAIL

(See Table of Dimensions)

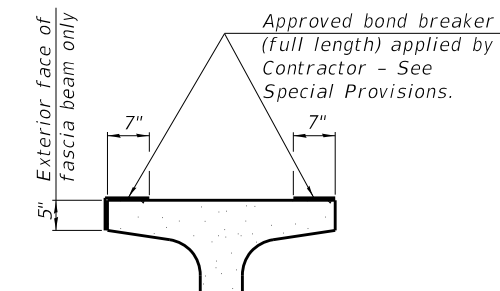
NOTES:

1. Inserts for 3/4" Ø threaded dowel rods, when specified, are to be two strut, ferrule type for interior beams and single ferrule, flared loop type for exterior beams.
2. Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter for beam strands shall be 0.6" and the nominal cross-sectional area shall be 0.217 sq. in. The nominal diameter for lifting loops shall be 1/2" and the nominal cross sectional area shall be 0.153 sq. in.
3. The beams shall have a final concrete compressive strength, f'c, of 8500 psi and a release concrete compressive strength, f'ci, of 7000 psi.
4. A minimum 2 1/2" Ø lifting pin shall be used to engage the lifting loops during handling.
5. Bend the extended strands inward on the fascia beams to maintain 1 1/2" clearance inside the pier diaphragm.
6. The top and bottom plates shall be AASHTO M270 Grade 50.
7. The top plates and bottom plate assemblies shall be galvanized according to AASHTO M111. The threaded rods, nuts and washers shall be galvanized according to AASHTO M232.
8. Threaded rods shall be ASTM F 1554 Grade 55.
9. Welded Wire Reinforcement (WWR) shall conform to ASTM A884 with a Class A, Type 1 epoxy coating.
10. Beams shall not be released from the fabricator until they have attained 30 days of age or older.



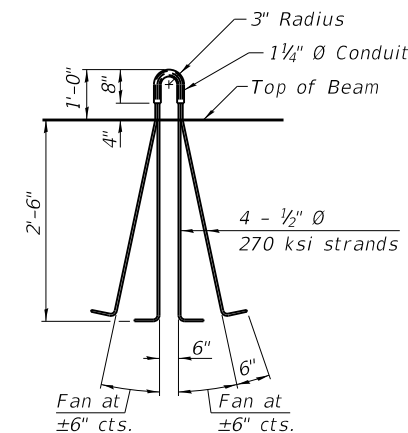
M5 THRU M8 WWR DETAIL

(See Table of Dimensions)



SECTION THRU TOP FLANGE

(Showing limits of bond breaker)



LIFTING LOOP DETAIL

TABLE OF DIMENSIONS

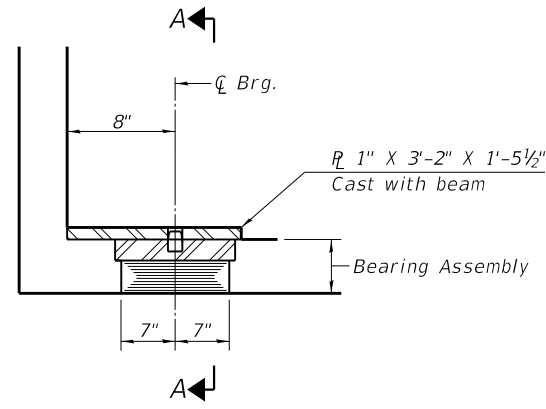
(WWR tables are based on Grade 60)

WWR	A	B
M2	9	3"
M3	6	6"
M4	31	1'-6"
M5	9	3"
M6	55	6"
M7	22	1'-0"
M8	0	2'-0"

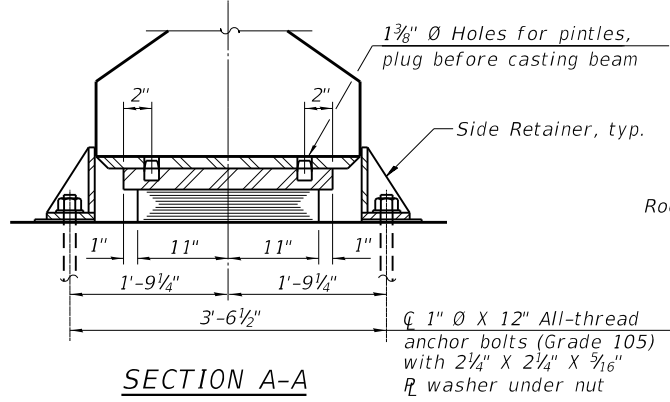
BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete Beams, IL36	Ft.	835

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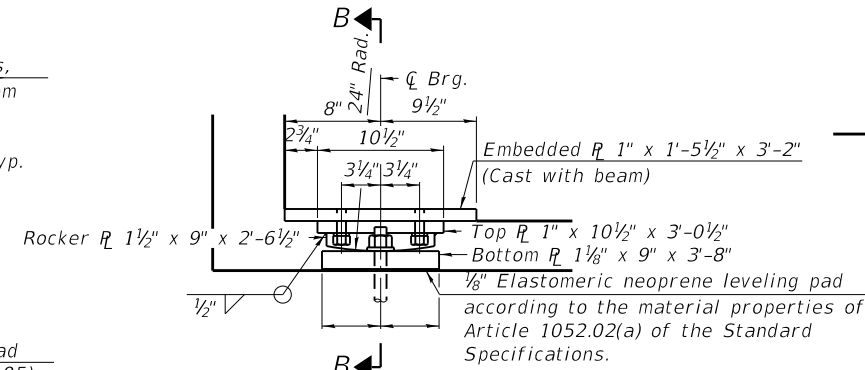


ELEVATION AT EAST ABUT.

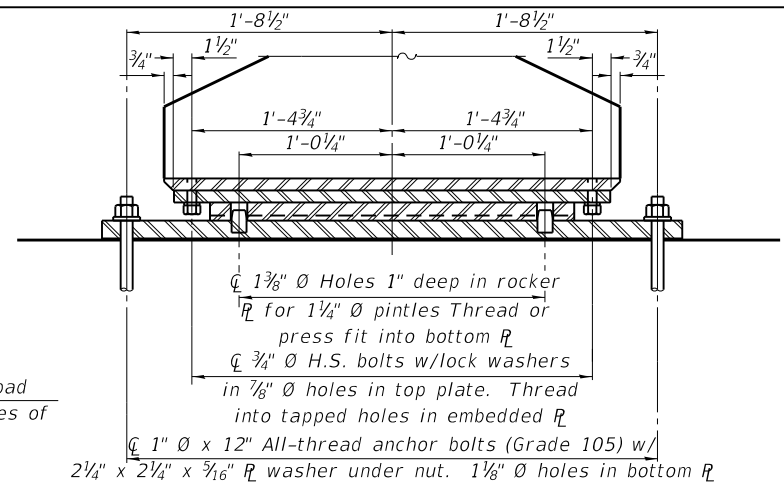


SECTION A-A

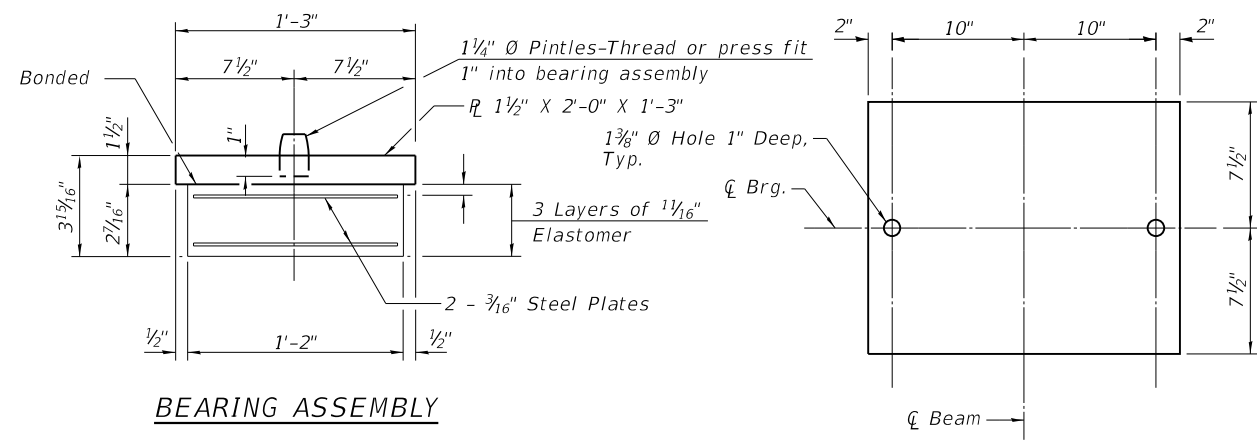
1" Ø X 12" All-thread anchor bolts (Grade 105) with 2 1/4" X 2 1/4" X 3/16" washer under nut



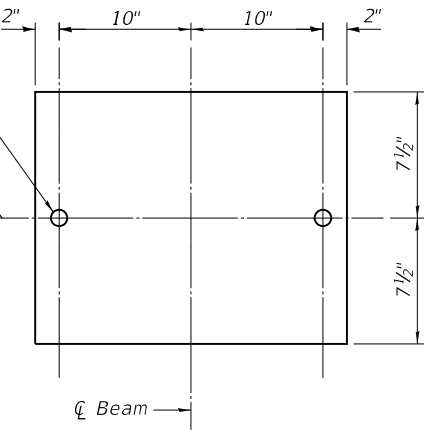
ELEVATION AT WEST ABUTMENT



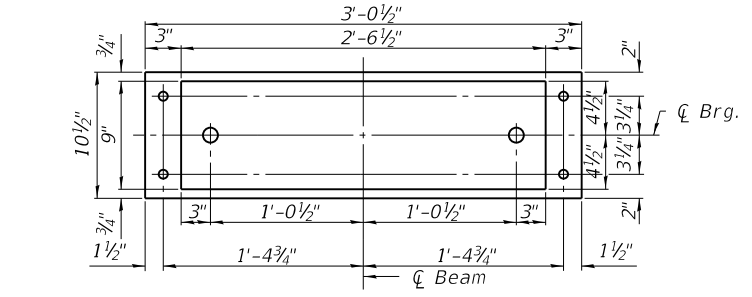
SECTION B-B



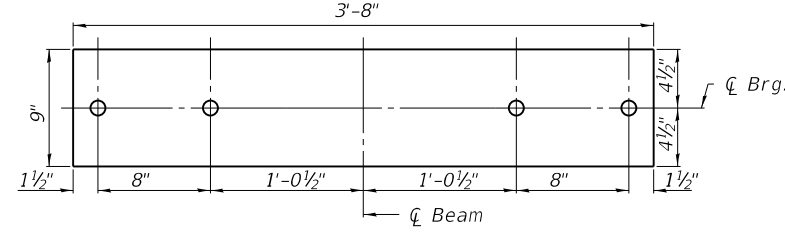
BEARING ASSEMBLY



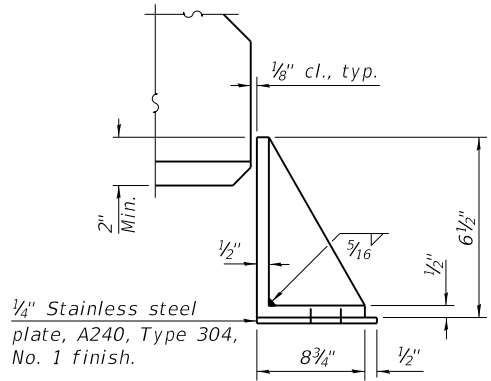
TOP R PLAN (Expansion Bearing)



PLAN OF TOP PLATE & ROCKER PLATE (Looking from below at top plate and rocker plate only)



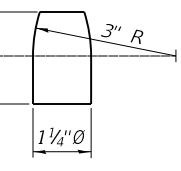
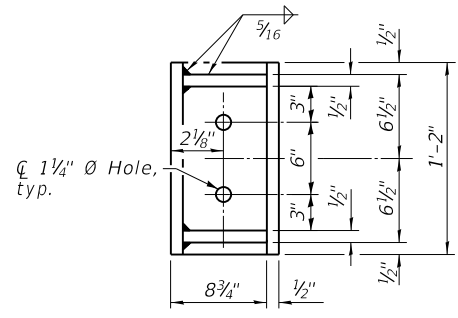
PLAN OF BOTTOM PLATE (FIXED BEARING)



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

TYPE I ELASTOMERIC EXP. BRG.



PINTLE

NOTES:

1. Side retainers and other steel members required for the bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.
2. See sheet S-25 for additional details of plate cast with beam.
3. Beams shall be braced for stability during erection and remain braced until deck is poured and cured.
4. Anchor bolts and side retainers at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.
5. All plates, hardware, and leveling pads required for the fixed bearing, except anchor bolts, shall be included in the cost of Furnishing and Erecting Precast Prestressed Concrete IL36 Beams.
6. All plate material for bearings shall be hot dip galvanized according to AASHTO M111.
7. All bolts and washers shall be galvanized according to AASHTO M232.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	8
Anchor Bolts, 1"	Each	48

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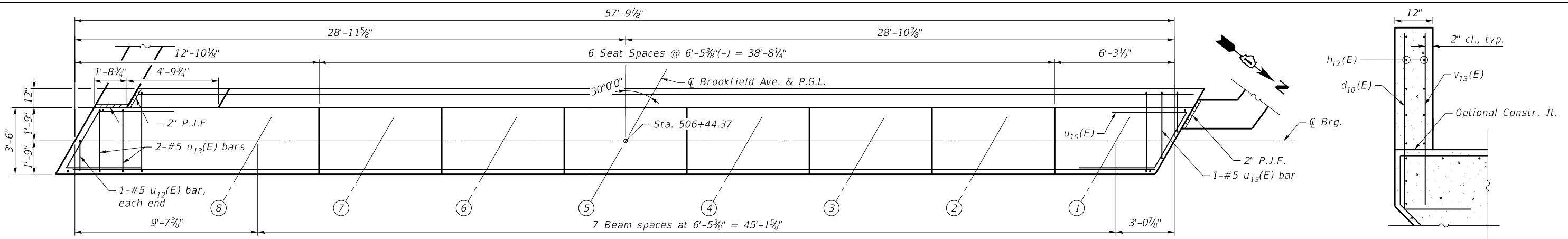
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	DATE - 11/02/20	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEARING DETAILS
STRUCTURE NO. 016-6666

SHEET 5-26 OF 5-35 SHEETS

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	92
CONTRACT NO.			61G22	
ILLINOIS FED. AID PROJECT				



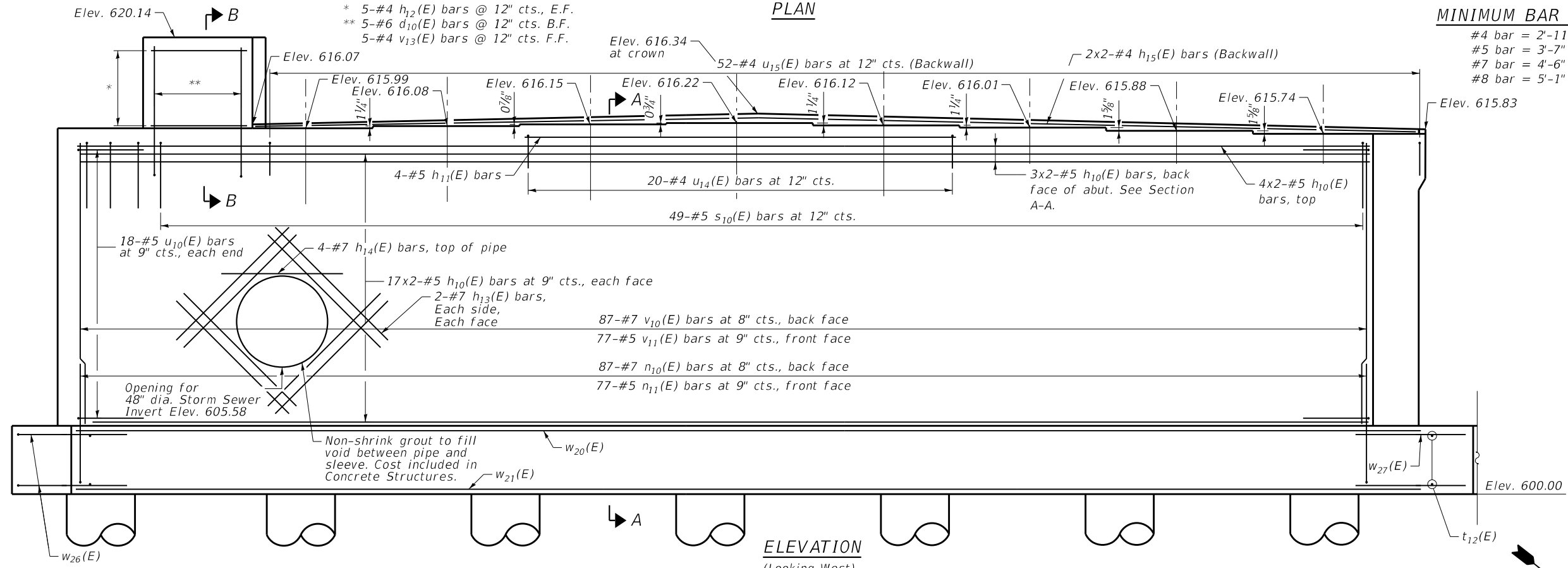
PLAN

SECTION B-B

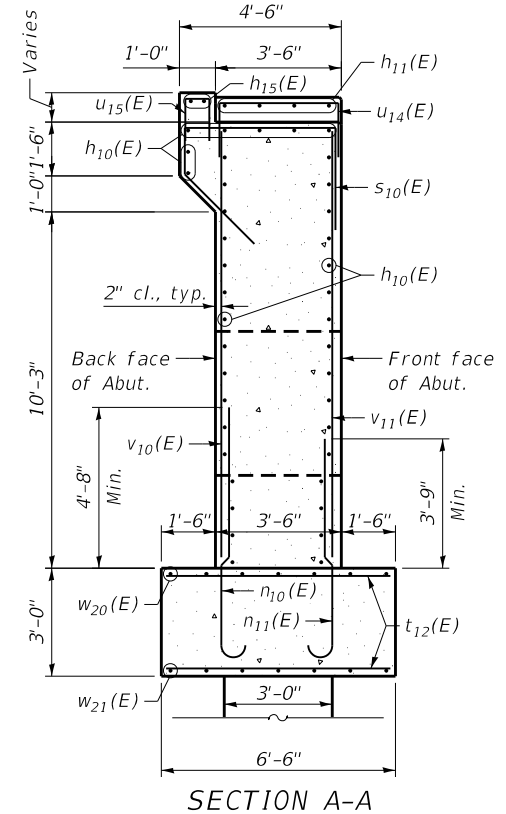
MINIMUM BAR LAP

- #4 bar = 2'-11"
- #5 bar = 3'-7"
- #7 bar = 4'-6"
- #8 bar = 5'-1"

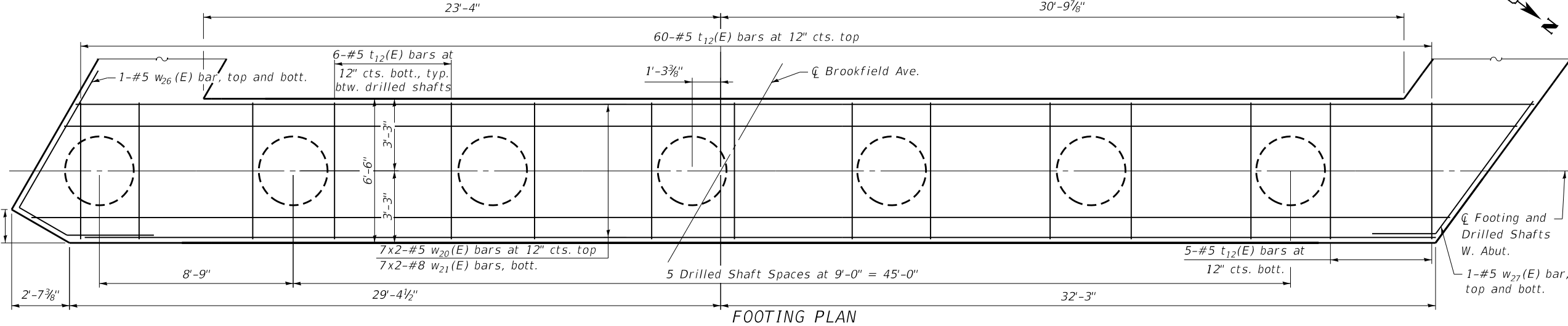
- * 5-#4 h₁₂(E) bars @ 12" cts., E.F.
- ** 5-#6 d₁₀(E) bars @ 12" cts. B.F.
- 5-#4 v₁₃(E) bars @ 12" cts. F.F.



ELEVATION
(Looking West)



SECTION A-A



FOOTING PLAN

- NOTES:**
1. Pour steps monolithically with cap.
 2. For Drilled Shaft Details see Sheet S-33.
 3. For anchor bolt spacing and details see Sheet S-29.
 4. For Bar Bend Details and Bill of Material see Sheet S-29.
 5. For Wingwall Details see Sheets S-30 thru S-32.
 6. Space Reinforcement to miss anchor bolts.
 7. Cost of PJF included with Concrete Structures.

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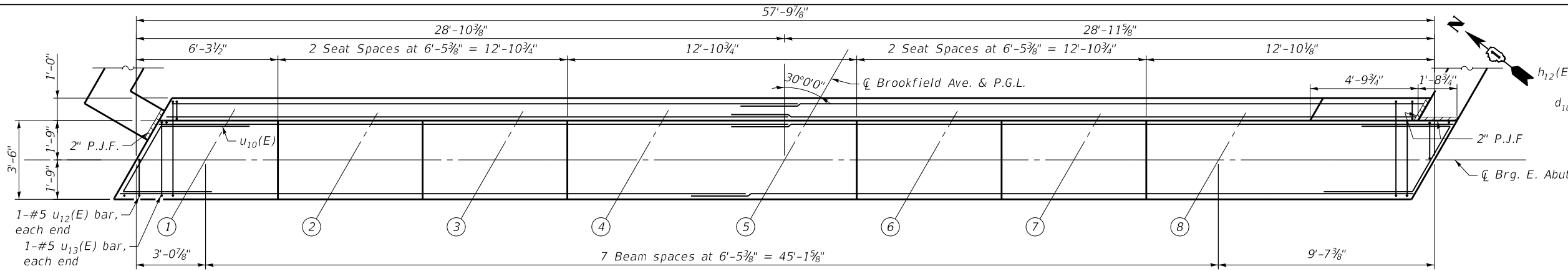
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

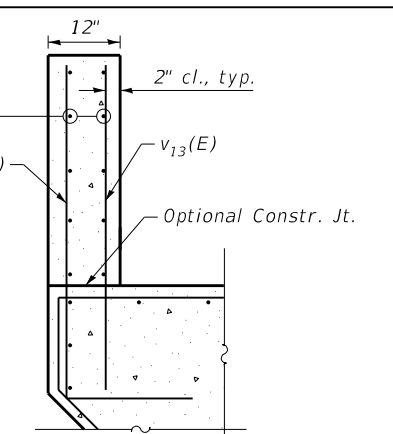
WEST ABUTMENT
STRUCTURE NO. 016-6666

SHEET S-27 OF S-35 SHEETS

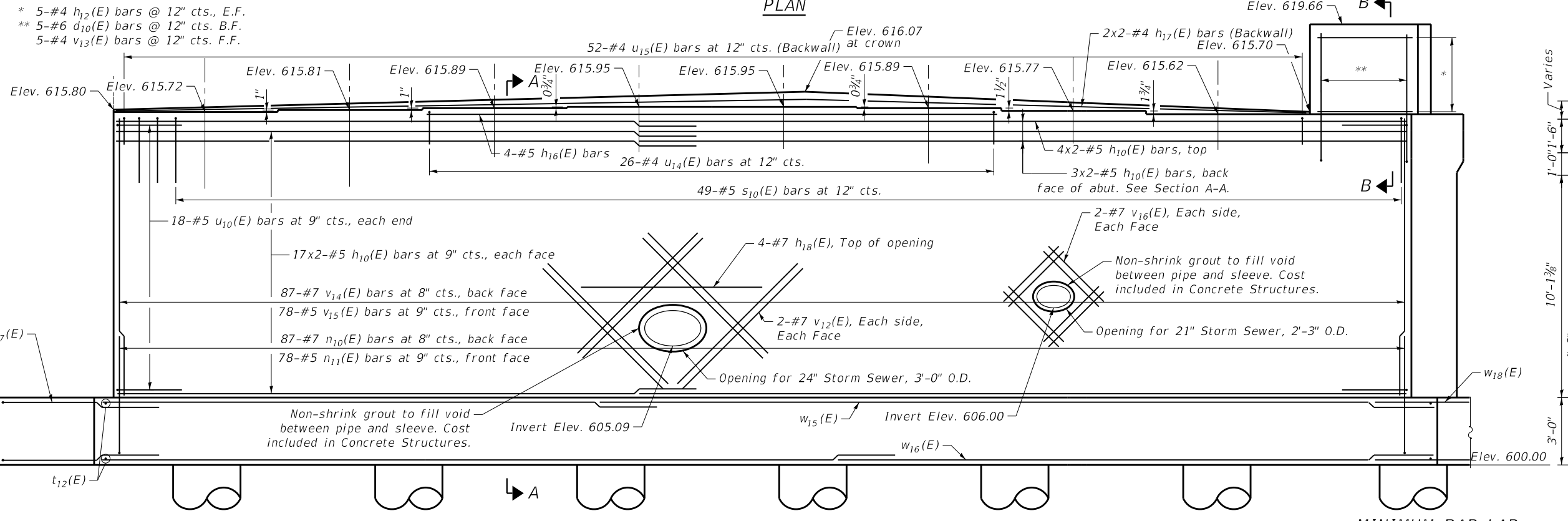
FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	93
CONTRACT NO.			61G22	
ILLINOIS FED. AID PROJECT				



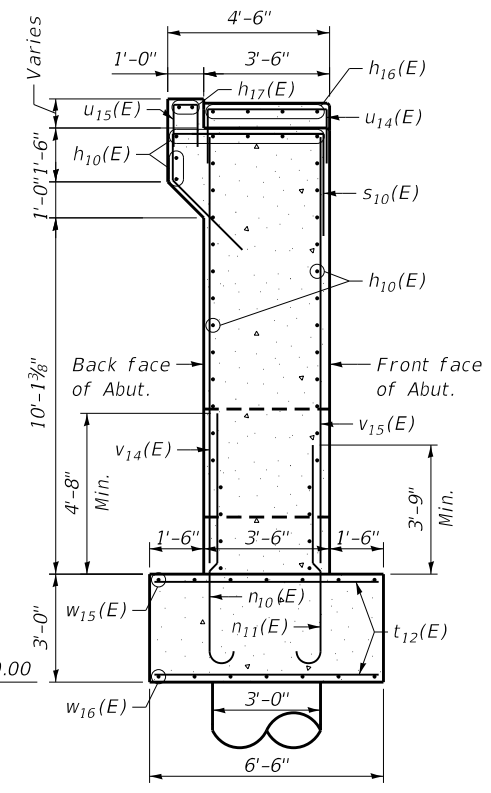
PLAN



SECTION B-B

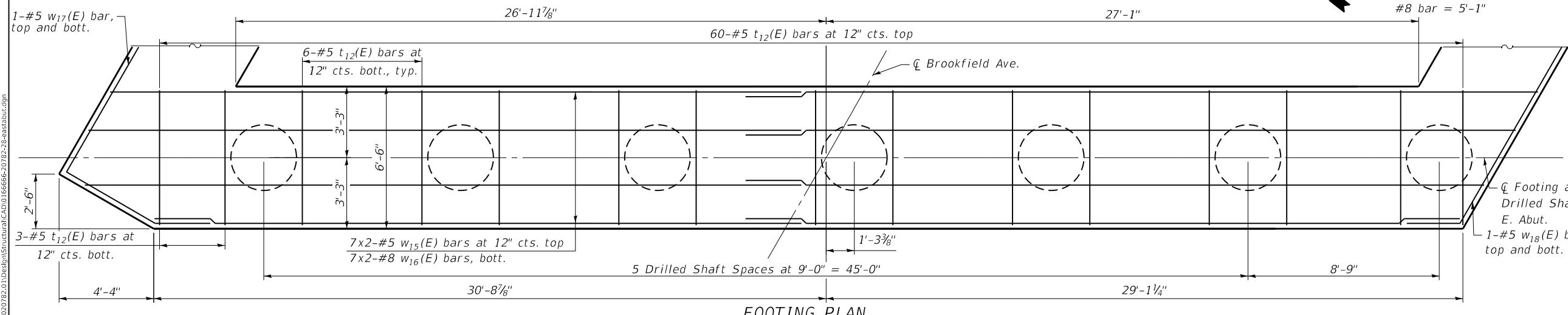


ELEVATION
(Looking East)



SECTION A-A

MINIMUM BAR LAP
 #4 bar = 2'-11"
 #5 bar = 3'-7"
 #7 bar = 4'-6"
 #8 bar = 5'-1"



FOOTING PLAN

- NOTES:**
1. Pour steps monolithically with cap.
 2. For Drilled Shaft Details see Sheet S-33.
 3. For anchor bolt spacing and details see Sheet S-29.
 4. For Bar Bend Details and Bill of Material see Sheet S-29.
 5. For Wingwall Details see Sheets S-30 thru S-32.
 6. Space Reinforcement to miss anchor bolts.
 7. Cost of P.J.F. included with Concrete Structures.

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	DATE - 11/02/20	REVISED -

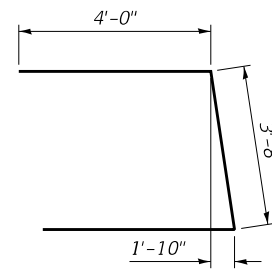
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT
STRUCTURE NO. 016-6666

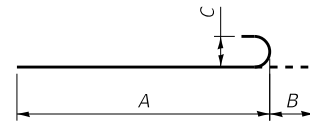
SHEET 5-28 OF 5-35 SHEETS

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO.			61G22	
ILLINOIS FED. AID PROJECT				

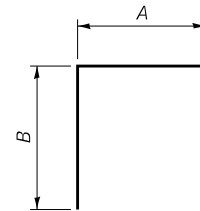
ABUTMENTS & WINGWALLS
BILL OF MATERIAL



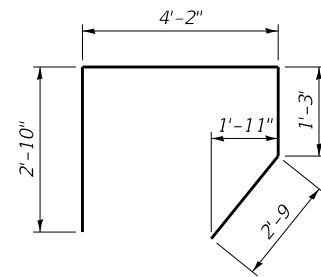
BAR $u_{10}(E)$



BARS $n_{10}(E)$, $n_{11}(E)$, AND $n_{20}(E)$



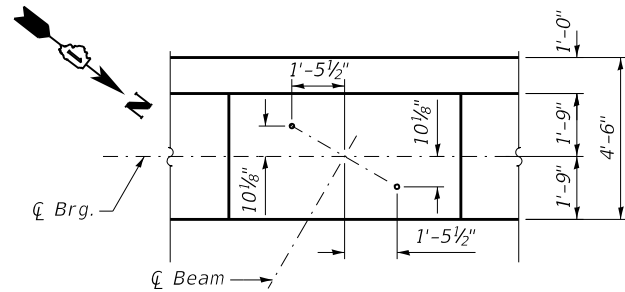
BARS $u_{12}(E)$ THRU $u_{15}(E)$



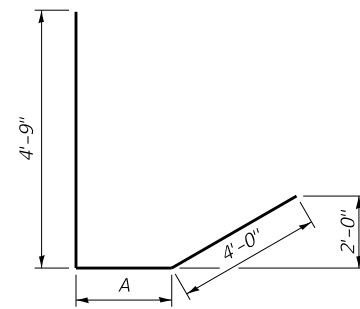
BAR $s_{10}(E)$

BAR LENGTH			
BARS	A	B	C
$n_{10}(E)$	7'-3"	1'-2"	7"
$n_{11}(E)$	6'-4"	10"	5"
$n_{20}(E)$	7'-3"	1'-2"	7"

BAR LENGTH		
BARS	A	B
$u_{12}(E)$	1'-7"	2'-0"
$u_{13}(E)$	3'-2"	2'-0"
$u_{14}(E)$	3'-2"	1'-6"
$u_{15}(E)$	8"	1'-6"

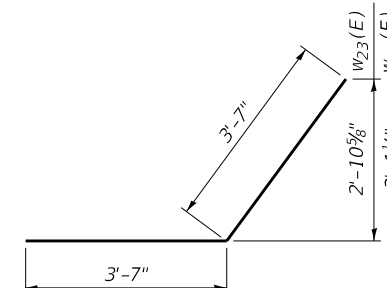


WEST ABUTMENT ANCHOR BOLT LOCATION DETAIL

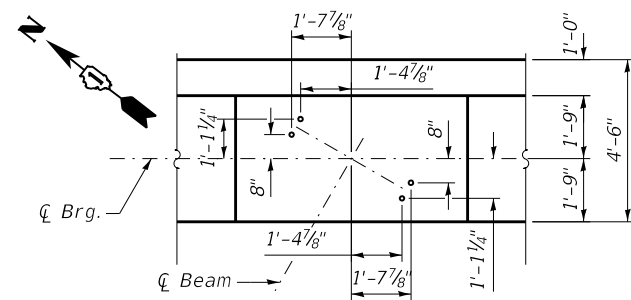


BARS $w_{17}(E)$ AND $w_{26}(E)$

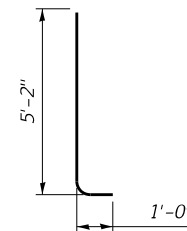
BAR LENGTH	
BARS	A
$w_{17}(E)$	4'-8"
$w_{26}(E)$	2'-8"



BARS $w_{18}(E)$ AND $w_{27}(E)$



EAST ABUTMENT ANCHOR BOLT LOCATION DETAIL



BAR $d_{10}(E)$

Bar	No.	Size	Length	Shape
$d_{10}(E)$	10	#6	6'-2"	┌
$h_{10}(E)$	164	#5	30'-7"	—
$h_{11}(E)$	4	#5	19'-1"	—
$h_{12}(E)$	20	#4	4'-5"	—
$h_{13}(E)$	16	#7	8'-0"	—
$h_{14}(E)$	4	#7	10'-0"	—
$h_{15}(E)$	4	#4	27'-0"	—
$h_{16}(E)$	4	#5	25'-5"	—
$h_{17}(E)$	4	#4	27'-0"	—
$h_{18}(E)$	4	#7	10'-0"	—
$h_{20}(E)$	18	#5	20'-7"	—
$h_{21}(E)$	18	#5	19'-10"	—
$h_{24}(E)$	17	#5	16'-2"	└
$h_{25}(E)$	17	#5	15'-3"	└
$h_{30}(E)$	17	#5	15'-7"	┌
$h_{31}(E)$	17	#5	12'-7"	┌
$h_{33}(E)$	17	#5	15'-1"	—
$h_{34}(E)$	17	#5	16'-0"	—
$n_{10}(E)$	174	#7	8'-5"	┌
$n_{11}(E)$	154	#5	7'-2"	┌
$n_{20}(E)$	139	#7	8'-5"	┌
$s_{10}(E)$	98	#5	11'-0"	└
$t_{12}(E)$	200	#5	6'-2"	—
$t_{20}(E)$	115	#5	4'-8"	—
$u_{10}(E)$	72	#5	11'-8"	└
$u_{12}(E)$	4	#5	5'-7"	└
$u_{13}(E)$	5	#5	7'-2"	└
$u_{14}(E)$	46	#4	6'-2"	└
$u_{15}(E)$	104	#4	3'-2"	└
$v_{10}(E)$	87	#7	12'-6"	—
$v_{11}(E)$	77	#5	12'-6"	—
$v_{12}(E)$	16	#7	10'-0"	—
$v_{13}(E)$	10	#4	5'-2"	—
$v_{14}(E)$	87	#7	12'-4"	—
$v_{15}(E)$	77	#5	12'-4"	—
$v_{16}(E)$	16	#7	5'-6"	—
$v_{20}(E)$	22	#5	16'-10"	—
$v_{21}(E)$	43	#7	16'-10"	—
$v_{26}(E)$	19	#5	16'-5"	—
$v_{27}(E)$	32	#7	16'-5"	—
$v_{30}(E)$	12	#5	16'-2"	—
$v_{31}(E)$	27	#7	16'-2"	—
$v_{32}(E)$	4	#5	16'-5"	—
$v_{33}(E)$	4	#7	16'-5"	—
$v_{38}(E)$	17	#5	16'-5"	—
$v_{39}(E)$	33	#7	16'-5"	—
$w_{15}(E)$	22	#5	34'-3"	—
$w_{16}(E)$	28	#8	35'-1"	—
$w_{17}(E)$	2	#5	13'-5"	└
$w_{18}(E)$	2	#5	7'-2"	└
$w_{22}(E)$	6	#5	26'-2"	—
$w_{23}(E)$	6	#8	26'-2"	—
$w_{24}(E)$	6	#5	18'-10"	—
$w_{25}(E)$	6	#8	18'-10"	—
$w_{26}(E)$	2	#5	13'-5"	└
$w_{27}(E)$	2	#5	7'-2"	└
$w_{32}(E)$	6	#5	19'-0"	—
$w_{33}(E)$	6	#8	19'-0"	—
$w_{34}(E)$	6	#5	21'-5"	—
$w_{35}(E)$	6	#8	21'-5"	—

Structure Excavation	Cu Yd	410.0
Cofferdam Excavation	Cu Yd	1079.0
Concrete Structures	Cu Yd	397.3
Reinforcement Bars, Epoxy Coated	Pound	19,090
Geocomposite Wall Drain	Sq Yd	261
Granular Backfill For Structures	Cu Yd	428
Pipe Underdrains For Structures, 4"	Foot	197

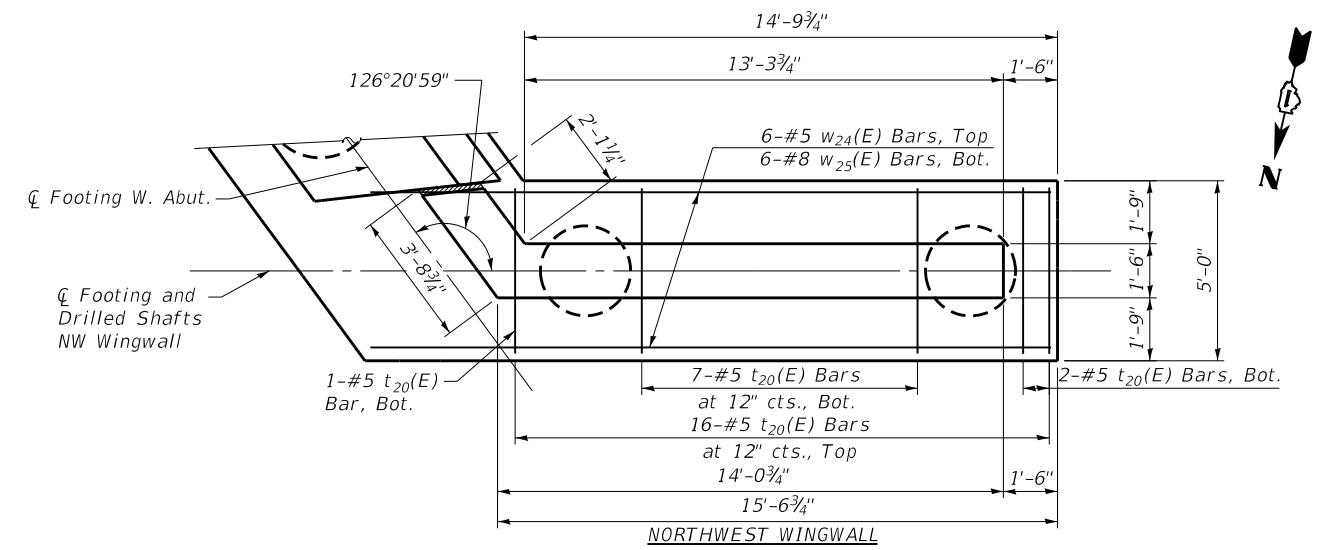
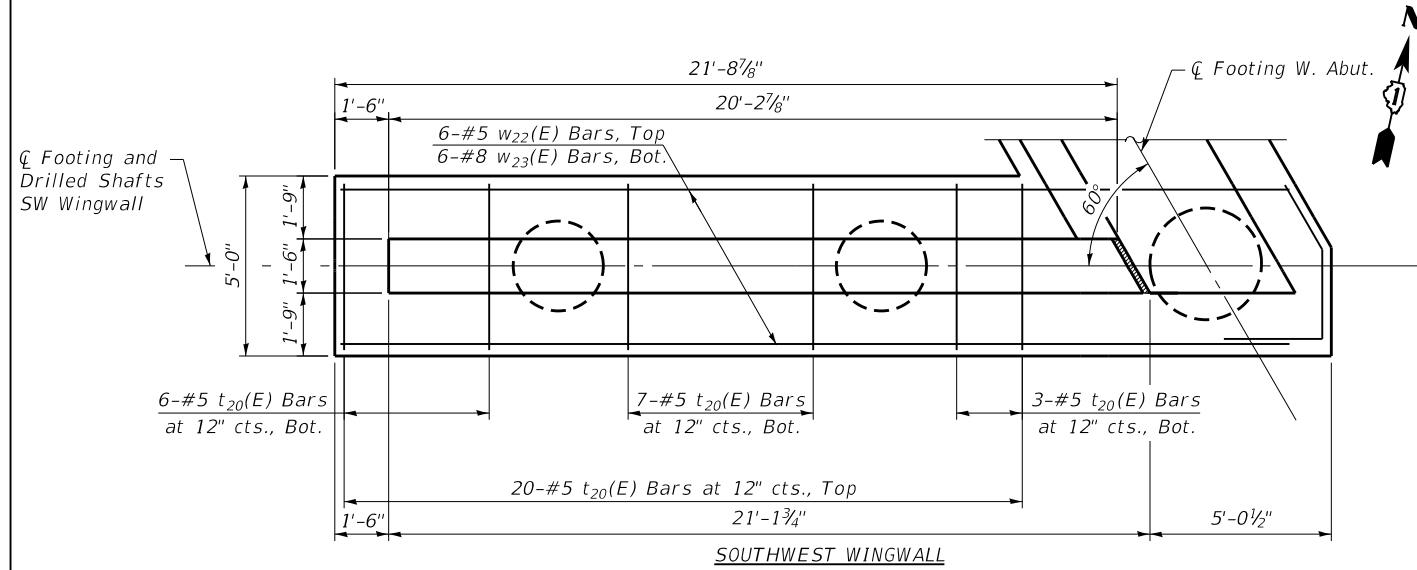
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* Measured along Front Face of Wall.

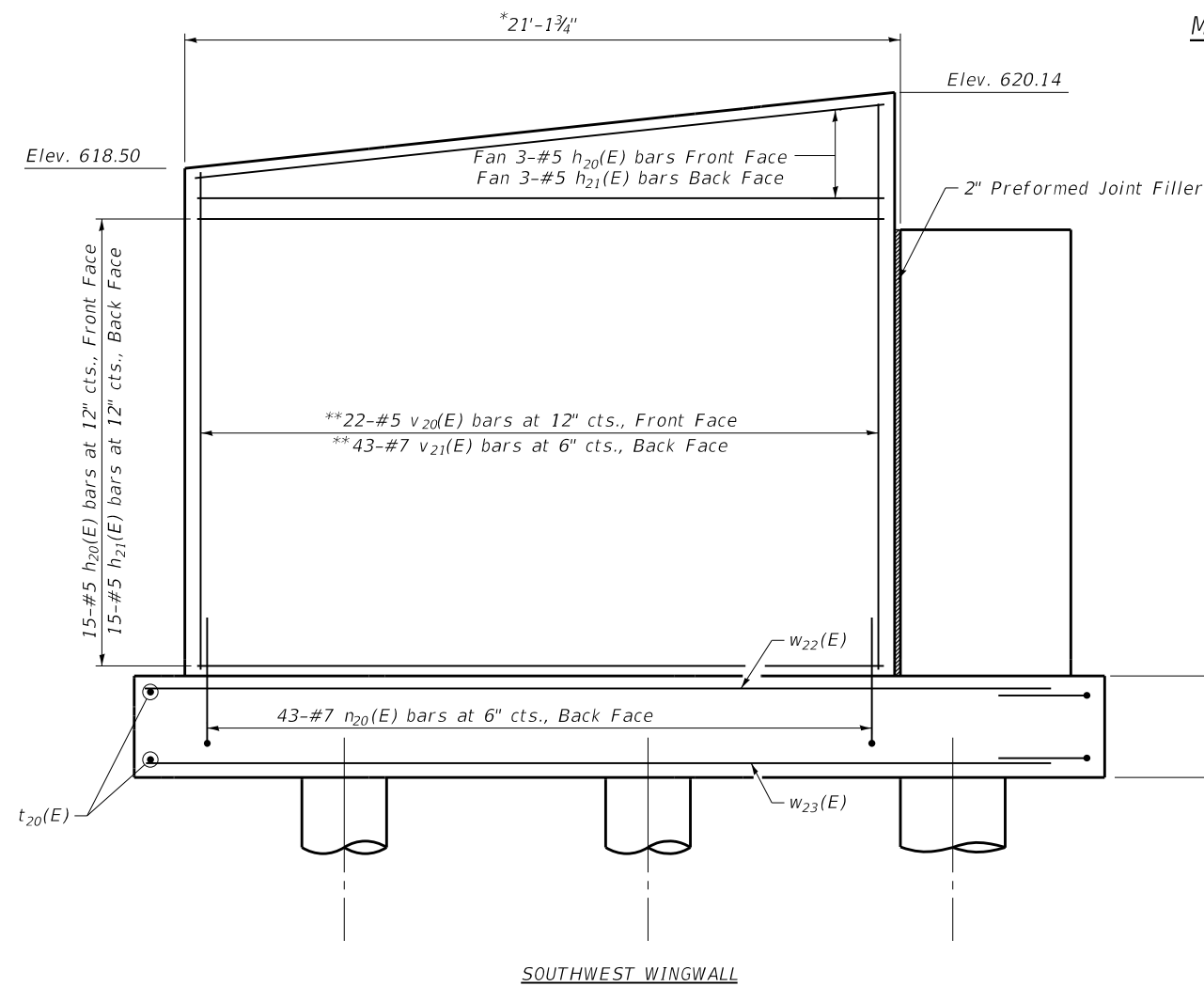
** Cut bars to fit

NOTES:

1. See Sheet S-32 for Wingwall Section and Bar Diagrams.
2. See Sheet S-29 for Abutments & Wingwalls Bill of Material.

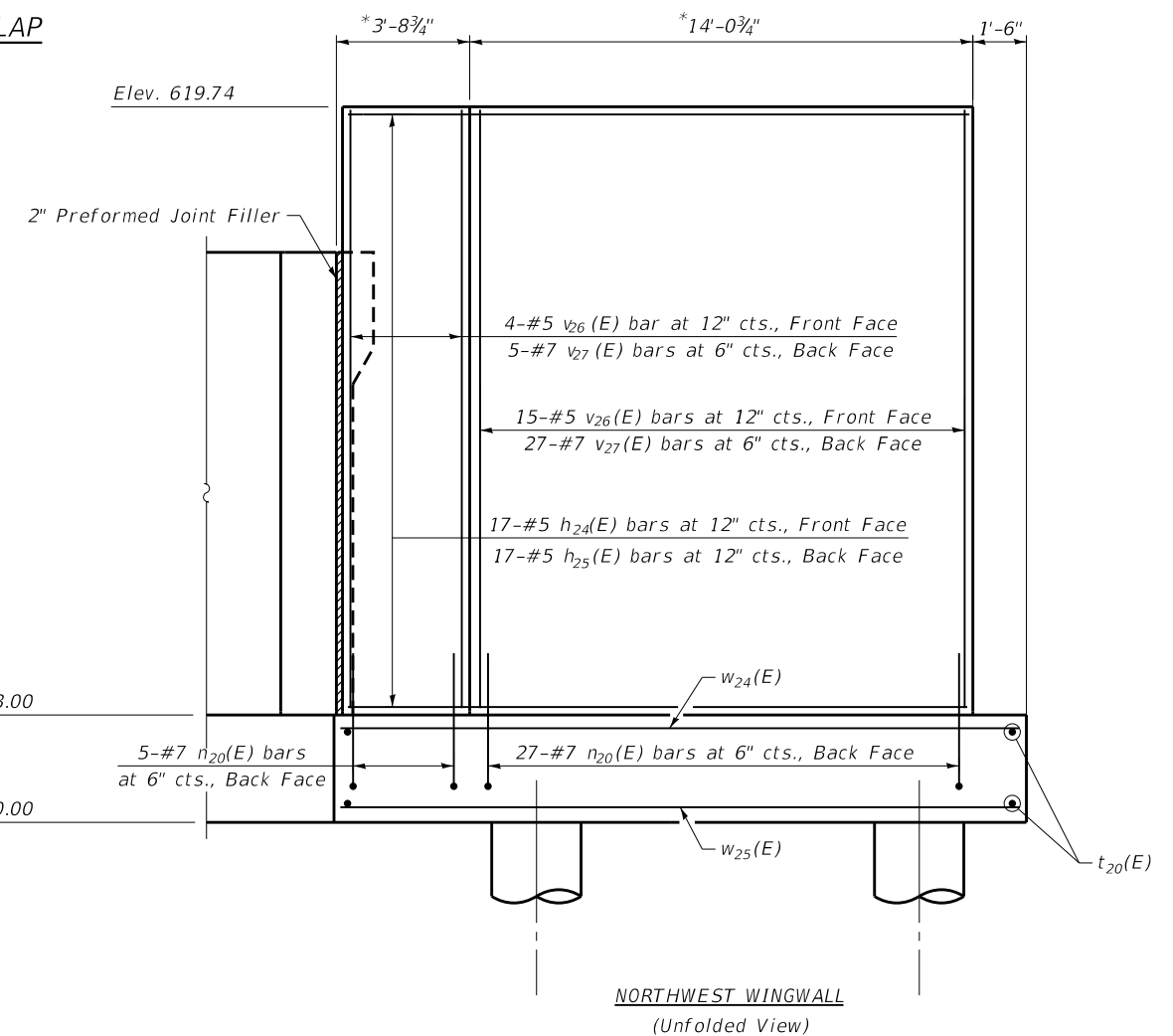


PLAN



MINIMUM BAR LAP

#7 bar = 4'-6"



ELEVATION

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

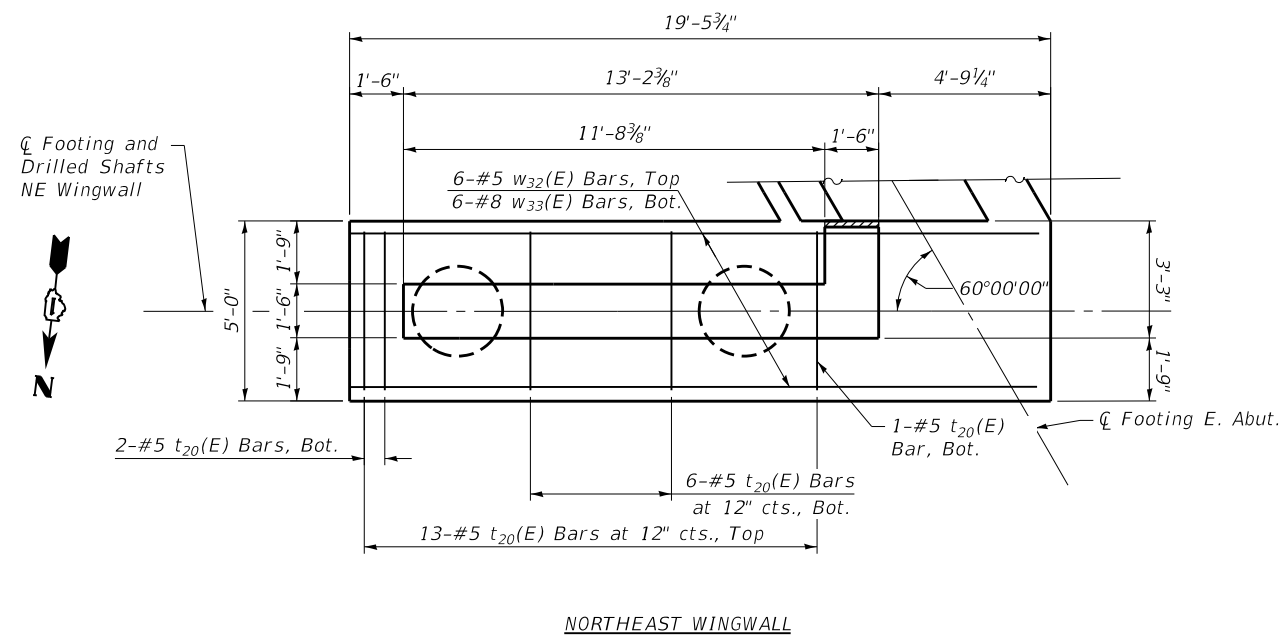
**WEST WINGWALLS
STRUCTURE NO. 016-6666**

SHEET S-30 OF S-35 SHEETS

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	96
CONTRACT NO.			61G22	
ILLINOIS FED. AID PROJECT				

* Measured Along Front Face of Wall

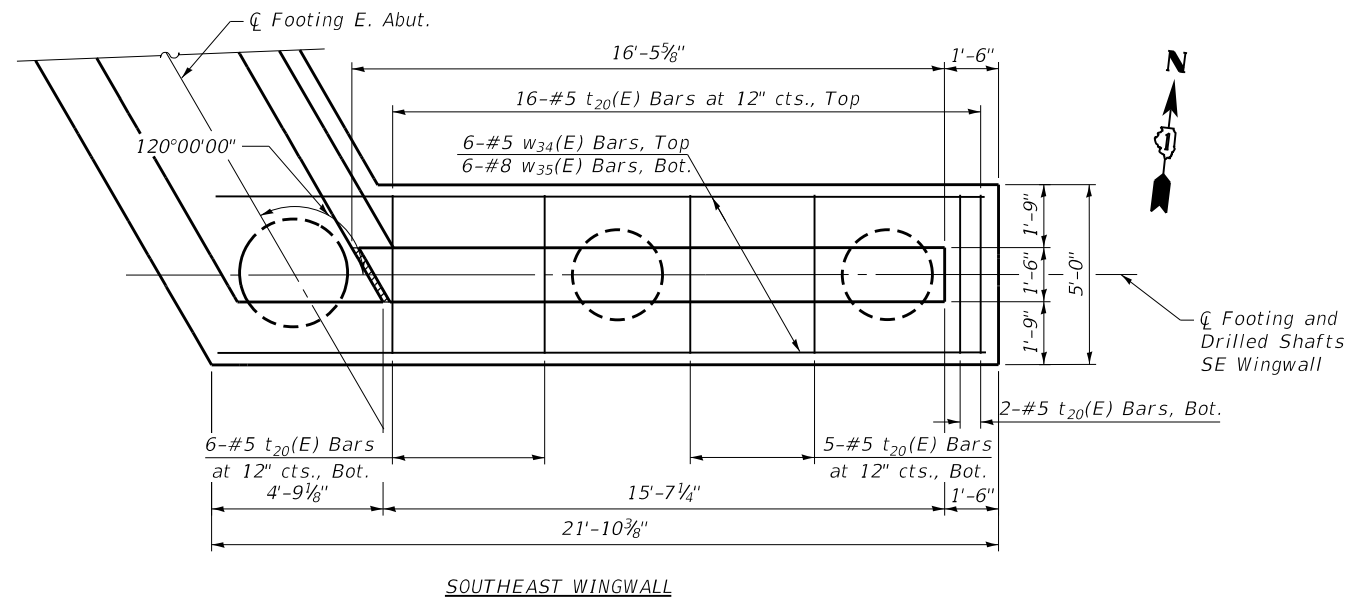
** Cut bars to fit



NORTHEAST WINGWALL

NOTES:

1. See Sheet S-32 for Wingwall Section and Bar Diagrams.
2. See Sheet S-29 for Abutments & Wingwalls Bill of Material.

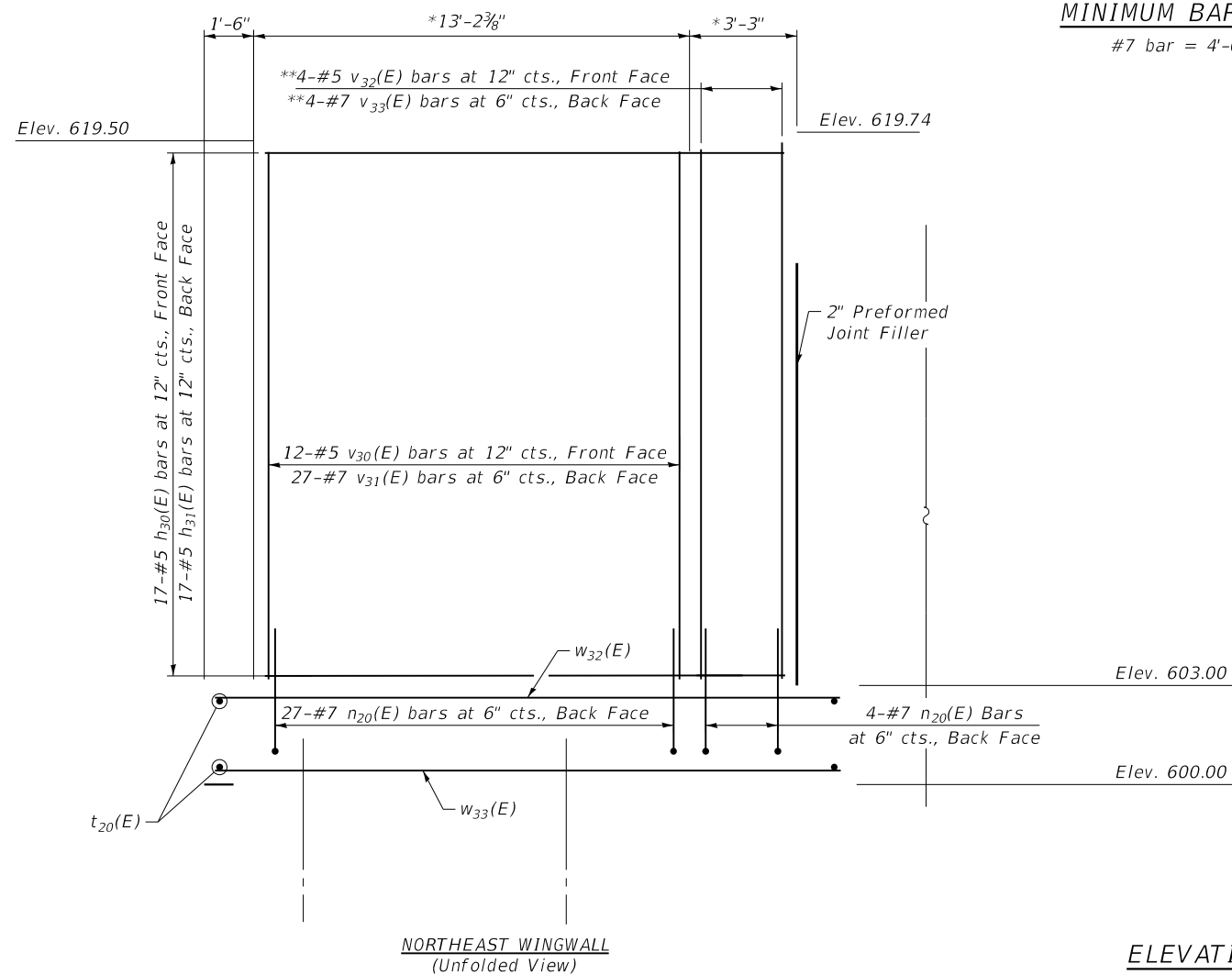


SOUTHEAST WINGWALL

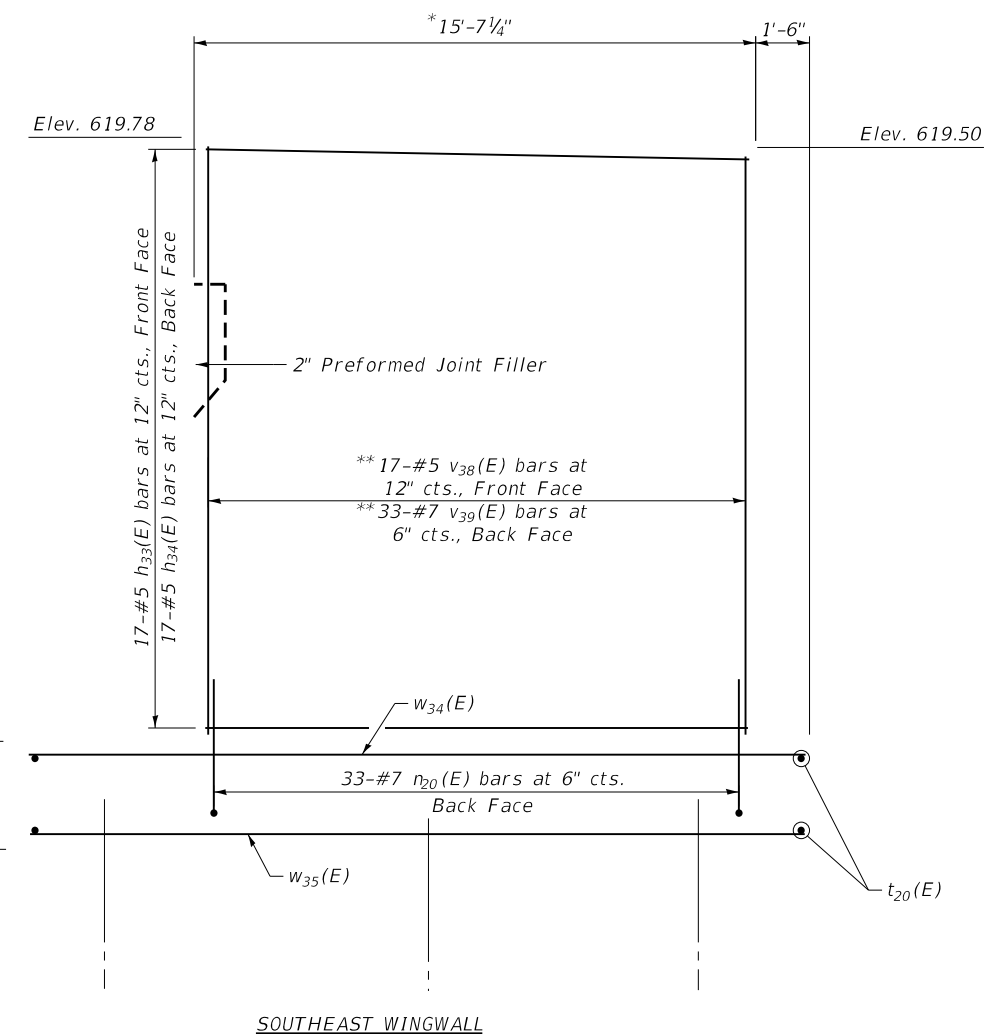
PLAN

MINIMUM BAR LAP

#7 bar = 4'-6"



NORTHEAST WINGWALL
(Unfolded View)



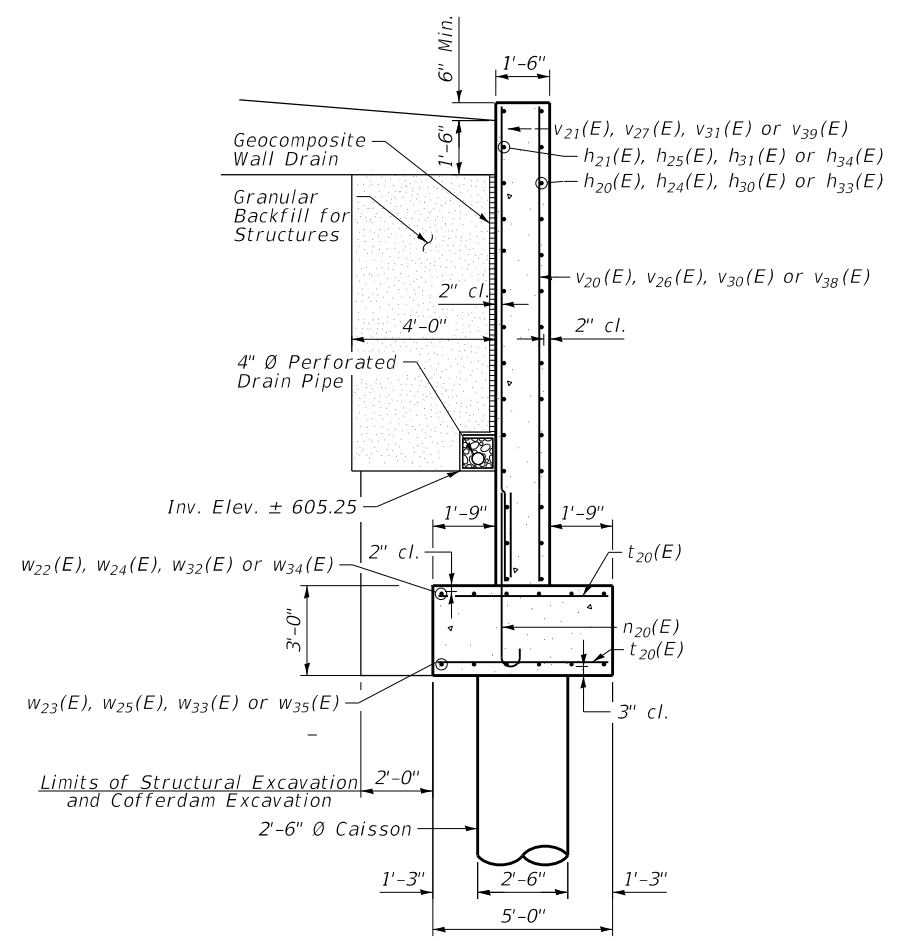
SOUTHEAST WINGWALL

ELEVATION

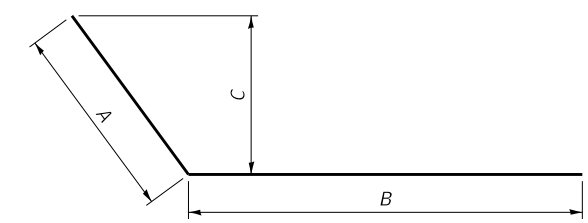
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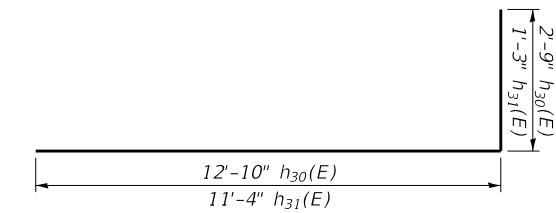
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CONTRACT NO. 61G22			ILLINOIS FED. AID PROJECT	



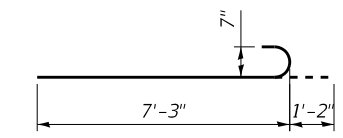
TYPICAL SECTION THRU WINGWALL



BAR $h_{24}(E)$ & $h_{25}(E)$



BAR $h_{30}(E)$ & $h_{31}(E)$



BAR $n_{20}(E)$

BARS	BAR LENGTH		
	A	B	C
$h_{24}(E)$	3'-3"	12'-11"	2'-7½"
$h_{25}(E)$	1'-7"	13'-2"	1'-5¾"

NOTES:

1. For Bill of Material, see sheet S-29.
2. For Pipe Underdrain Detail see Sheet S-2.

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

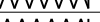

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WINGWALL DETAILS
STRUCTURE NO. 016-6666

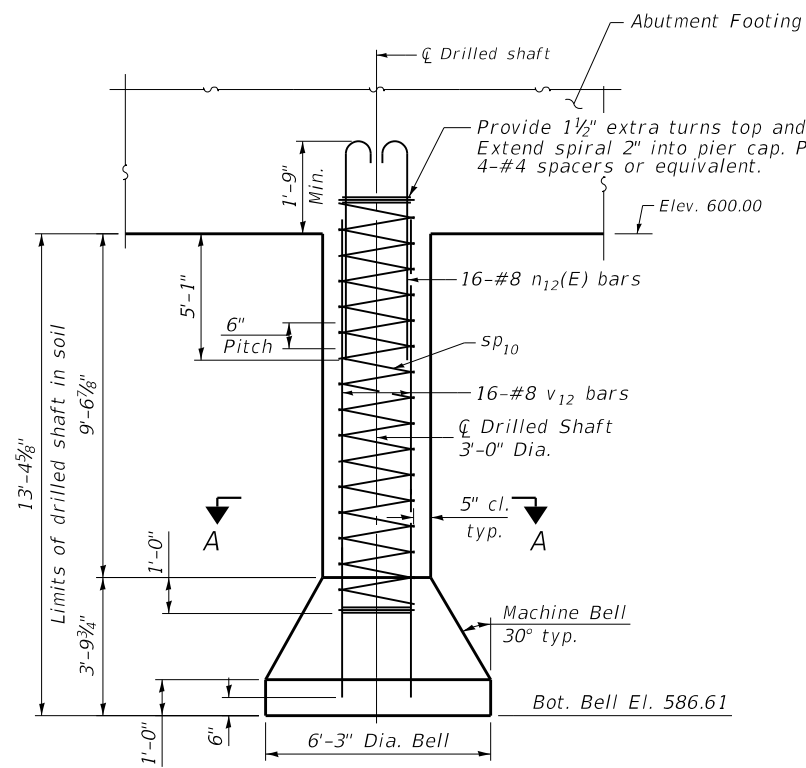
SHEET 5-32 OF 5-35 SHEETS

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO.			61G22	
ILLINOIS		FED. AID PROJECT		

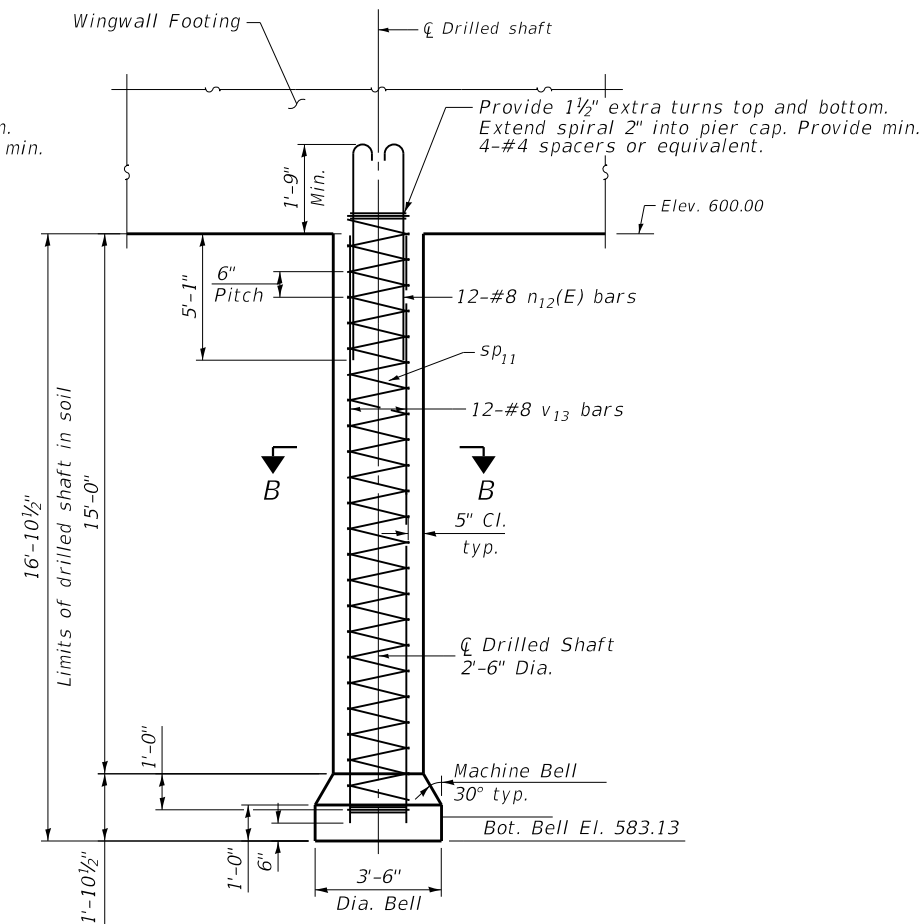
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
n ₁₂ (E)	320	#8	8'-8"	
v ₁₂	224	#8	12'-10"	
v ₁₃	96	#8	16'-4"	
* sp ₁₀	14	#4	10'-9"	
* sp ₁₁	8	#4	16'-7"	
Drilled Shaft In Soil		Cu Yd	102.4	
Reinforcement Bars		Pound	14,440	
Reinforcement Bars, Epoxy Coated		Pound	2,770	
Crosshole Sonic Logging Access Ducts		Foot	324	
Crosshole Sonic Logging Testing		Each	4	

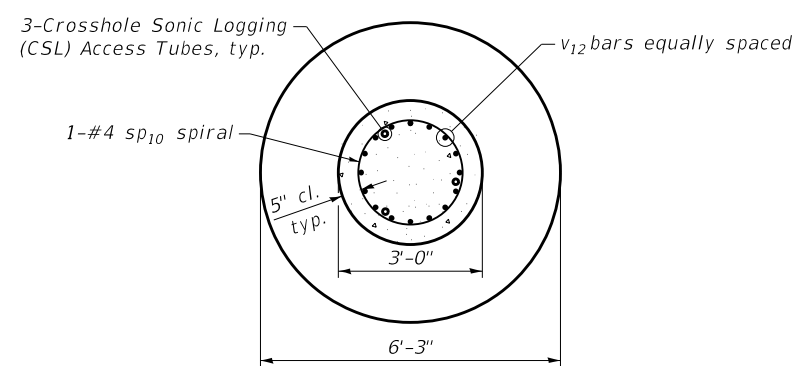
* Length is height of spiral



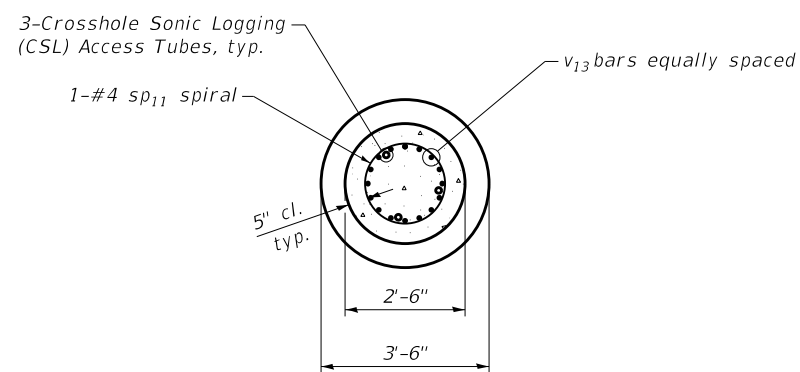
ABUTMENT SHAFT ELEVATION



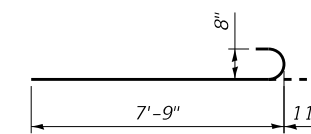
WINGWALL SHAFT ELEVATION



SECTION A-A



SECTION B-B



BAR n₁₂(E)

NOTES:

1. For Abutment details, see Sheets S-27 thru S-29.
2. For Wingwall details, see Sheets S-30 thru S-32.
3. All drilled shafts shall have Crosshole Sonic Logging Access Ducts.

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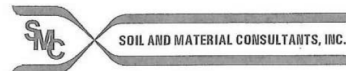
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DRILLED SHAFT DETAILS
 STRUCTURE NO. 016-6666**

SHEET 5-33 OF 5-35 SHEETS

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	99
CONTRACT NO.			61G22	
ILLINOIS FED. AID PROJECT				



File No. 22582 BORING LOG B-1

Client Ciorba Group, Inc. Sheet 1 of 3

Project Brookfield Ave. Bridge over Salt Creek Date 7/13/16

Location Brookfield, IL Drilled By AC

Equipment [X]CME 45B []H.A. []Other Logged By DA

Table with columns: Elev., ft., Description, Depth, ft., 0, S, T, R, B, N, Pen., W, Uw, Qu. Includes soil descriptions like 'Brown-dark brown-black clay, some silt, trace sand & gravel, damp, tough - Fill'.

Water Level - depth, ft. elev., ft. while drilling: 15.0 after drilling: 31.0 hrs. after drilling: ...

F-111b



File No. 22582 BORING LOG B-1

Client Ciorba Group, Inc. Sheet 2 of 3

Project Brookfield Ave. Bridge over Salt Creek Date 7/13/16

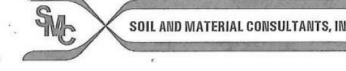
Location Brookfield, IL Drilled By AC

Equipment [X]CME 45B []H.A. []Other Logged By DA

Table with columns: Elev., ft., Description, Depth, ft., 20, S, T, R, B, N, Pen., W, Uw, Qu. Includes soil descriptions like 'Gray clay & silt, trace sand & gravel, damp, very hard'.

Water Level - depth, ft. elev., ft. while drilling: 15.0 after drilling: 31.0 hrs. after drilling: ...

F-111b



File No. 22582 BORING LOG B-1

Client Ciorba Group, Inc. Sheet 3 of 3

Project Brookfield Ave. Bridge over Salt Creek Date 7/13/16

Location Brookfield, IL Drilled By AC

Equipment [X]CME 45B []H.A. []Other Logged By DA

Table with columns: Elev., ft., Description, Depth, ft., 40, S, T, R, B, N, Pen., W, Uw, Qu. Includes 'Refusal - weathered bedrock' and 'End of Boring'.

Water Level - depth, ft. elev., ft. while drilling: 15.0 after drilling: 31.0 hrs. after drilling: ...

F-111b

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REVISOR - REVISED - REVISED - REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORING 1 STRUCTURE NO. 016-6666

SHEET 5-34 OF 5-35 SHEETS

Table with columns: FAU RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., CONTRACT NO. Values: 1408, 15-00129-00-BR, COOK, 114, 100, 61G22

ILLINOIS FED. AID PROJECT



File No. 22582 BORING LOG B-2

Client Ciorba Group, Inc. Sheet 1 of 2

Comments Brookfield Ave. Project Brookfield Ave. Bridge over Salt Creek Date 7/13/16

Sta. 107+40 - 50' N. of CL Location Brookfield, IL Drilled By AC

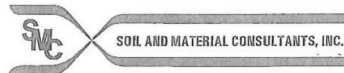
Equipment CME 45B H.A. Other Logged By DA

Elev., ft.	Description	Depth, ft.	0	S	T	R	B	N	Pen.	W	Uw	Qu
617.1'	Bituminous concrete - 4.0"											
615.9'	Limestone, damp - 11.0"					3						
	Brown-dark brown-black clay, some silt, trace sand & gravel, damp-very damp, very tough - Fill		1	SS	9"	3	6	2.25	16.5			
613.6'	Brown-dark brown-black clay, some silt, trace sand & gravel, damp-very damp, tough - Fill		5	2	SS	15"	2	4	0.75	22.0	109.6	1.2
	Brown-black sand & cinders, damp, very loose - Fill					1						
			3	SS	7"	1	2		16.1			
608.1'	Dark brown silt, some clay, trace sand, damp, very loose (topsoil)		10	4	SS	13"	2	4		35.7		
606.6'	Gray-brown clay, some silt, trace sand, very damp, stiff					1						
			5	SS	16"	2	4	0.5	39.2	85.7	0.7	
604.1'	Gray fine sand & silt, very damp, medium dense					5						
602.1'	Gray clay & silt, trace sand & gravel, damp, hard		15	6	SS	18"	5	10		23.2		
						5						
			7	SS	18"	10	19	4.5+	13.5	119.7	6.3	
						9						
597.1'			20	8	SS	18"	21	34	4.5+	14.4	122.0	7.5

S - sample T - type: J(Jar), SS(split-spoon), ST(shelby tube) R - recovery length, in.
 B - Standard Penetration Test (SPT), blows/6" interval. W - water content, %
 N - SPT, blows/foot to drive 2" O.D. split-spoon sampler with 140 lb. hammer falling 30".
 Pen. - pocket penetrometer reading, tons/sq. ft. Uw - dry unit weight of soil, lbs./cu.ft.
 Qu - unconfined compressive strength, tons./sq. ft.

Water Level — depth, ft. elev., ft.
 - while drilling: 14.0
 - after drilling: 24.0
 - hrs. after drilling: _____

F-111b



File No. 22582 BORING LOG B-2

Client Ciorba Group, Inc. Sheet 2 of 2

Comments Brookfield Ave. Project Brookfield Ave. Bridge over Salt Creek Date 7/13/16

Sta. 107+40 - 50' N. of CL Location Brookfield, IL Drilled By AC

Equipment CME 45B H.A. Other Logged By DA

Elev., ft.	Description	Depth, ft.	20	S	T	R	B	N	Pen.	W	Uw	Qu
	Gray clay & silt, trace sand & gravel, damp, very hard					8						
594.6'	Gray silt, some fine sand, trace gravel, damp, very dense		9	SS	18"	22	38	4.5+	12.7	121.9	8.7	
						16						
			10	SS	6"	92	92+		9.6			
591.1'	Gray sand & silt, some gravel, damp, very dense					20						
			11	SS	14"	48	82		6.0			
						34						
			12	SS	10"	82	82+		5.9			
						66						
584.1'	Refusal - weathered bedrock											
	End of Boring		35									
			40									

S - sample T - type: J(Jar), SS(split-spoon), ST(shelby tube) R - recovery length, in.
 B - Standard Penetration Test (SPT), blows/6" interval. W - water content, %
 N - SPT, blows/foot to drive 2" O.D. split-spoon sampler with 140 lb. hammer falling 30".
 Pen. - pocket penetrometer reading, tons/sq. ft. Uw - dry unit weight of soil, lbs./cu.ft.
 Qu - unconfined compressive strength, tons./sq. ft.

Water Level — depth, ft. elev., ft.
 - while drilling: 14.0
 - after drilling: 24.0
 - hrs. after drilling: _____

F-111b

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8725 W. Higgins Rd, Ste 600, Chicago, IL 60631
 P 773.775.4009 | www.ciorba.com

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 CHECKED - BWS
 DRAWN - SBA
 DATE - 11/02/20

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOIL BORING 2
 STRUCTURE NO. 016-6666

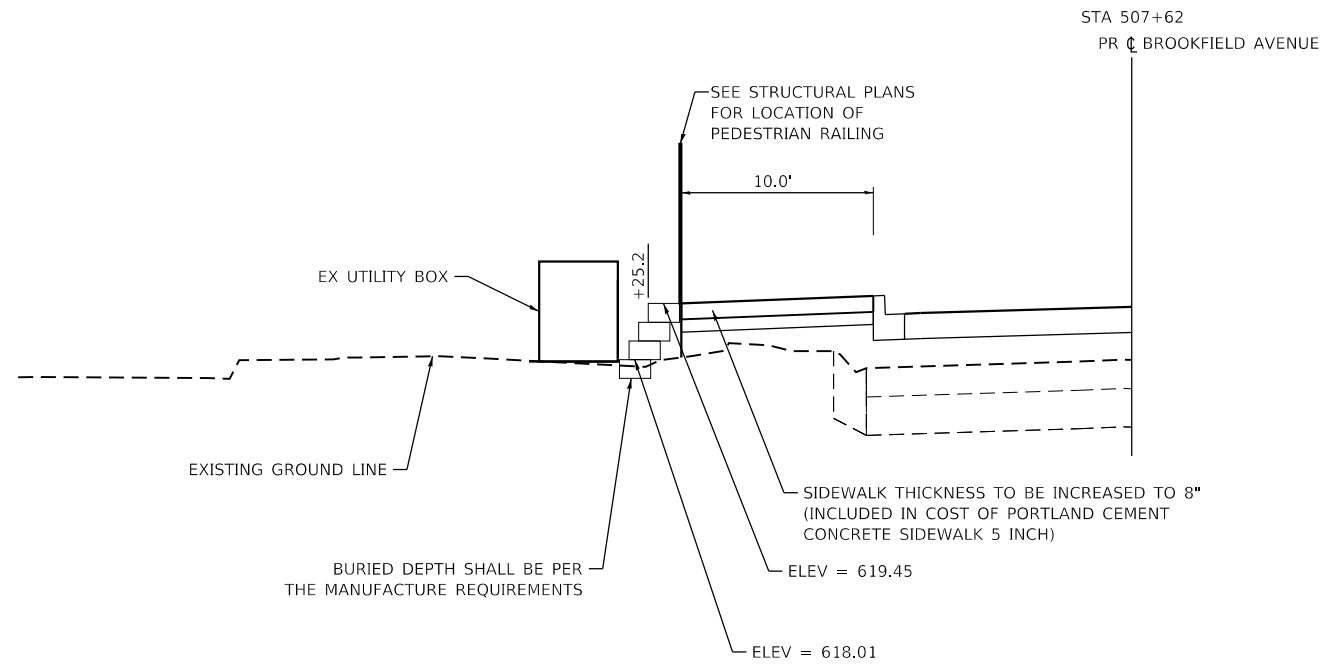
SHEET 5-35 OF 5-35 SHEETS

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CONTRACT NO.			61G22	

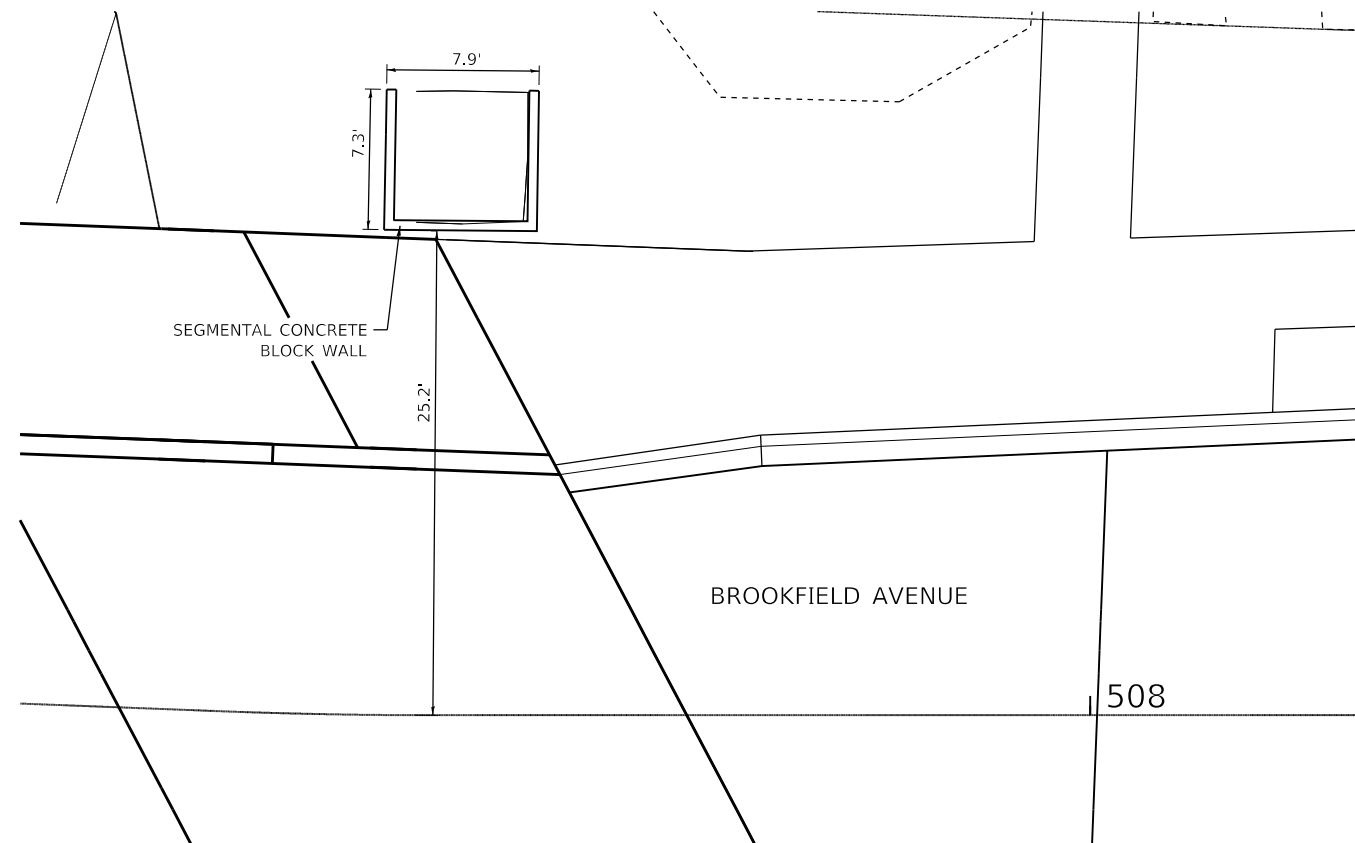
ILLINOIS FED. AID PROJECT

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NOTE:
BLOCK WALL ELEVATIONS ARE APPROXIMATE AND MAY VARY
DEPENDING ON MANUFACTURER. CONTRACTOR SHALL SUBMIT
SHOP DRAWINGS TO THE ENGINEER FOR REVIEW.



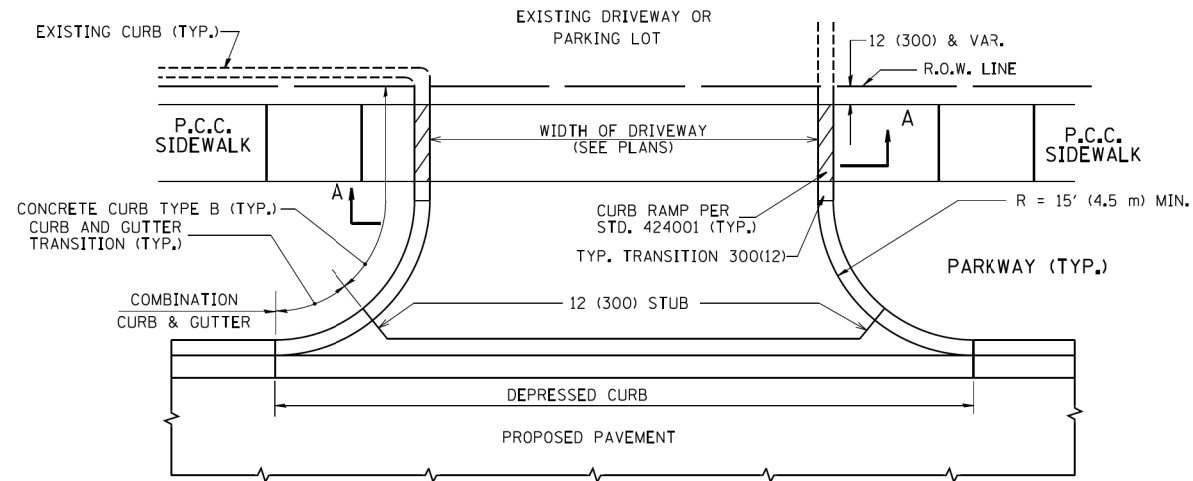
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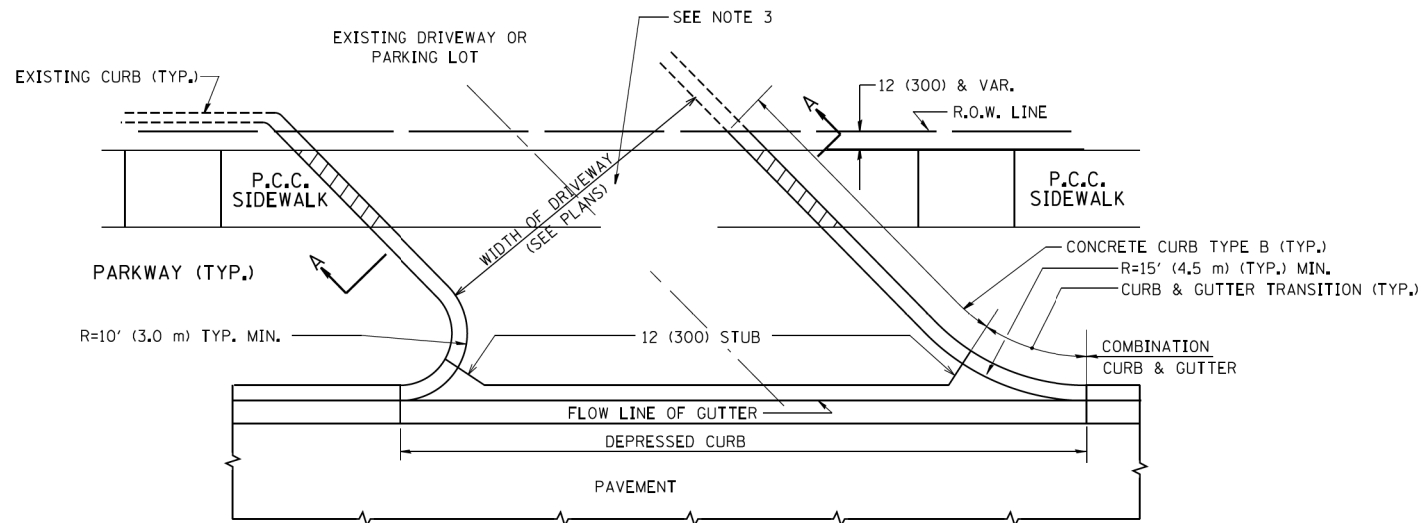
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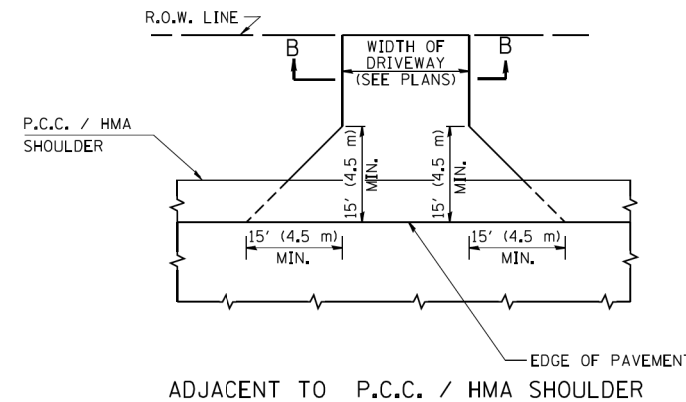
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CONTRACT NO.			61G22	
ILLINOIS FED. AID PROJECT				



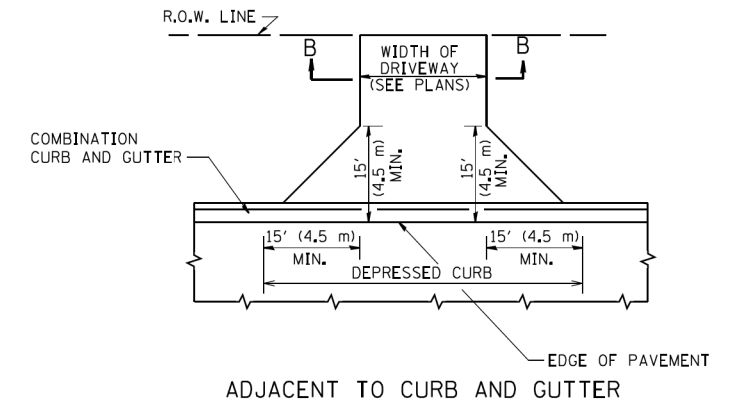
WITH CONCRETE CURB, TYPE B



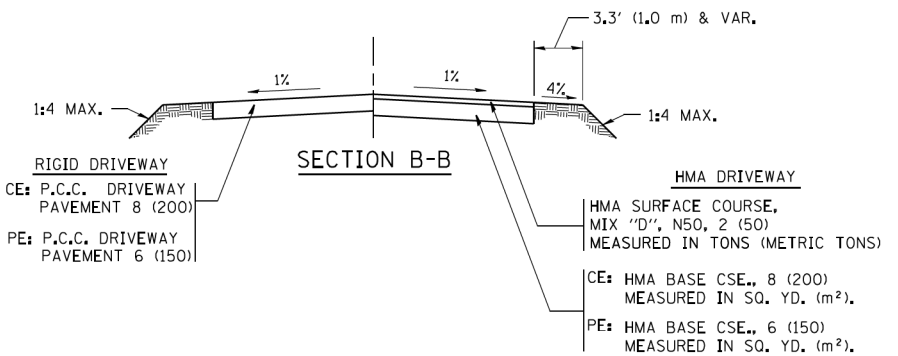
WITH CONCRETE CURB, TYPE B



ADJACENT TO P.C.C. / HMA SHOULDER



ADJACENT TO CURB AND GUTTER



RURAL FIELD ENTRANCE (FE)

HMA SURFACE COURSE,
MIX "D", N50, 2 (50)
MEASURED IN TONS (METRIC TONS)

AGGREGATE BASE CSE., TYPE B, 8 (200)
MEASURED IN SQ. YD. (m²).

GENERAL NOTES:

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

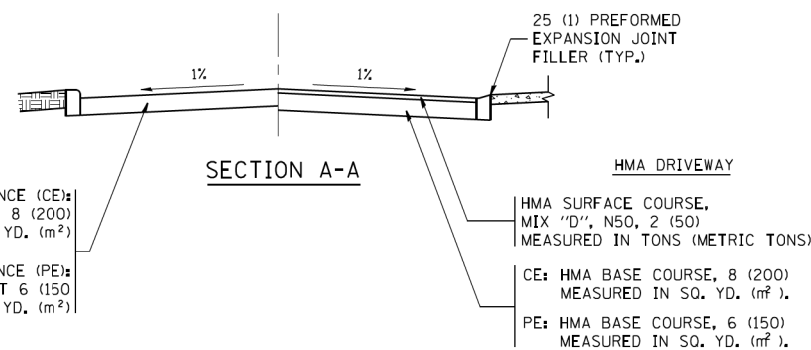
COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.



RIGID DRIVEWAY
COMMERCIAL ENTRANCE (CE):
P.C.C. DRIVEWAY PAVEMENT 8 (200)
MEASURED IN SQ. YD. (m²)
NON-COMMERCIAL ENTRANCE (PE):
P.C.C. DRIVEWAY PAVEMENT 6 (150)
MEASURED IN SQ. YD. (m²)

HMA DRIVEWAY
HMA SURFACE COURSE,
MIX "D", N50, 2 (50)
MEASURED IN TONS (METRIC TONS)
CE: HMA BASE COURSE, 8 (200)
MEASURED IN SQ. YD. (m²),
PE: HMA BASE COURSE, 6 (150)
MEASURED IN SQ. YD. (m²).

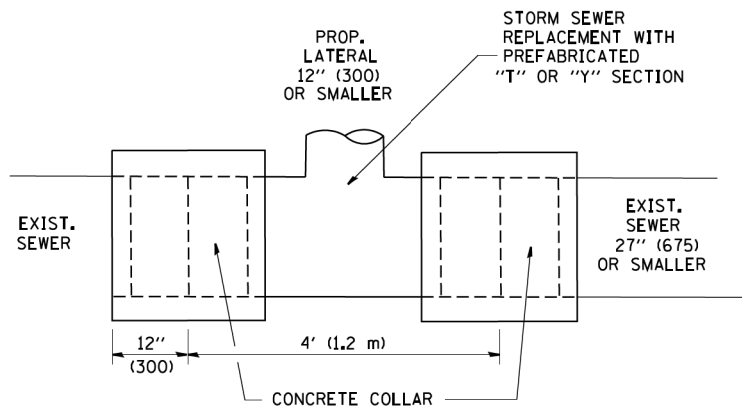
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

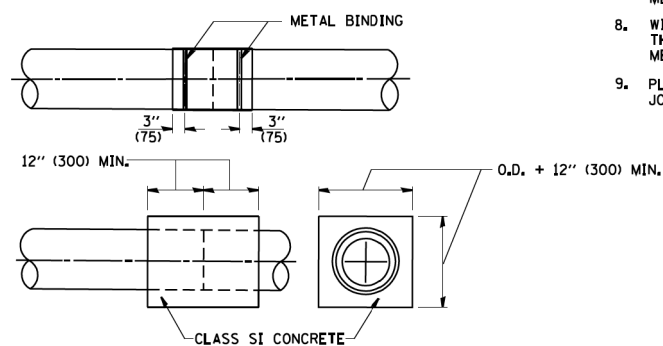
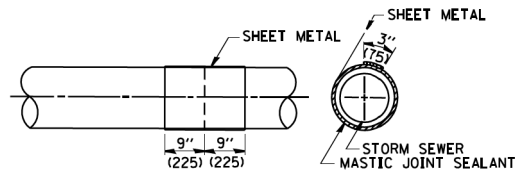
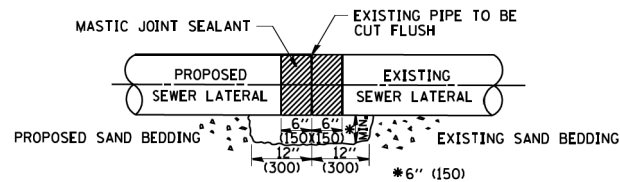
DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	103
BD0156-07 (BD-01)			CONTRACT NO.	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



DETAIL "A"

LATERAL CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER

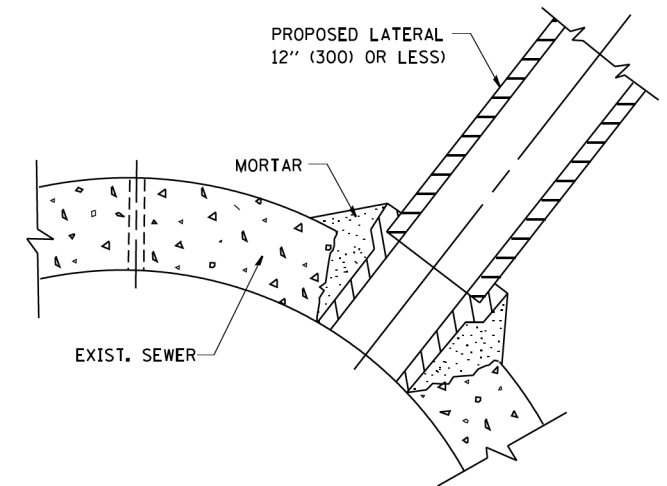


DETAIL "B"

CLASS SI CONCRETE COLLAR

CONSTRUCTION SEQUENCE

1. CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
2. APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
3. BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12" x 6" (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
4. CUT A PIECE OF SHEET METAL GAGE NO. 19 1.1 (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERENCE OF THE PIPE PLUS 3" (75) LONG.
5. WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
6. LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
7. PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
8. WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OZZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
9. PLACE CLASS SI CONCRETE AROUND THE JOINT.



DETAIL "C"

PROPOSED LATERAL CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER

NOTES

MATERIAL

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

CONSTRUCTION METHODS

- I. THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.
- II. CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:
 - A) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".
 - B) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

GENERAL

CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.

CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

BASIS OF PAYMENT

TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS. THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.

REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.

CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

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

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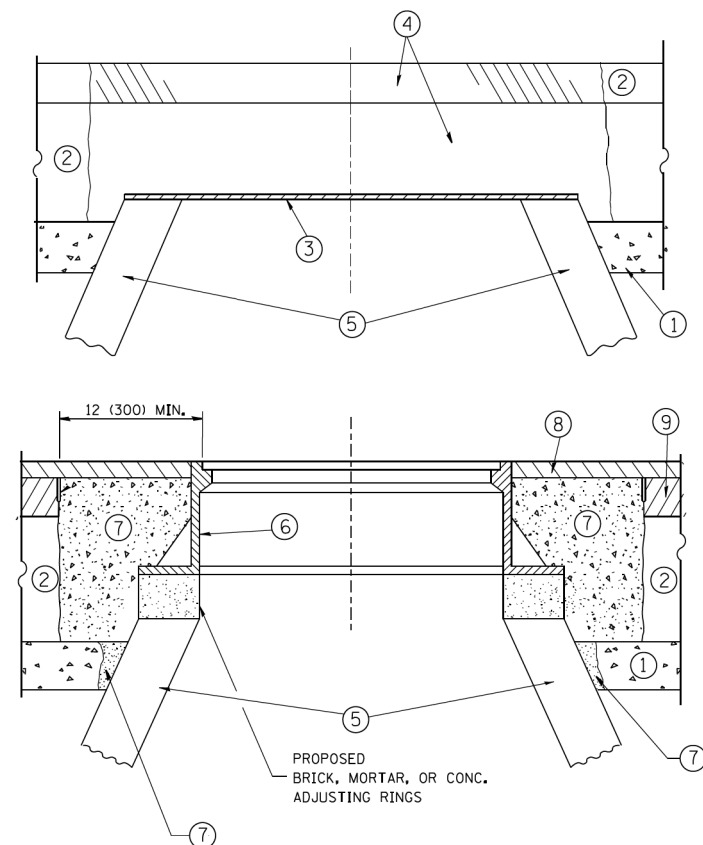
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	PLOT DATE = 1/4/2008	DATE - 07-25-90	REVISED - R. SHAH 06-12-96

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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BD500-01 (BD-7)			CONTRACT NO.	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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CONSTRUCTION PROCEDURES

- STAGE 1 (BEFORE PAVEMENT MILLING)**
- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
 - B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
 - C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
 - D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1/2 (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

- STAGE 2 (AFTER PAVEMENT MILLING)**
- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
 - B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
 - C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.
- * UNLESS OTHERWISE SPECIFIED IN THE PLANS.

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

LEGEND

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

NOTES:

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

LOCATION OF STRUCTURES:

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

BASIS OF PAYMENT:

REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."

THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

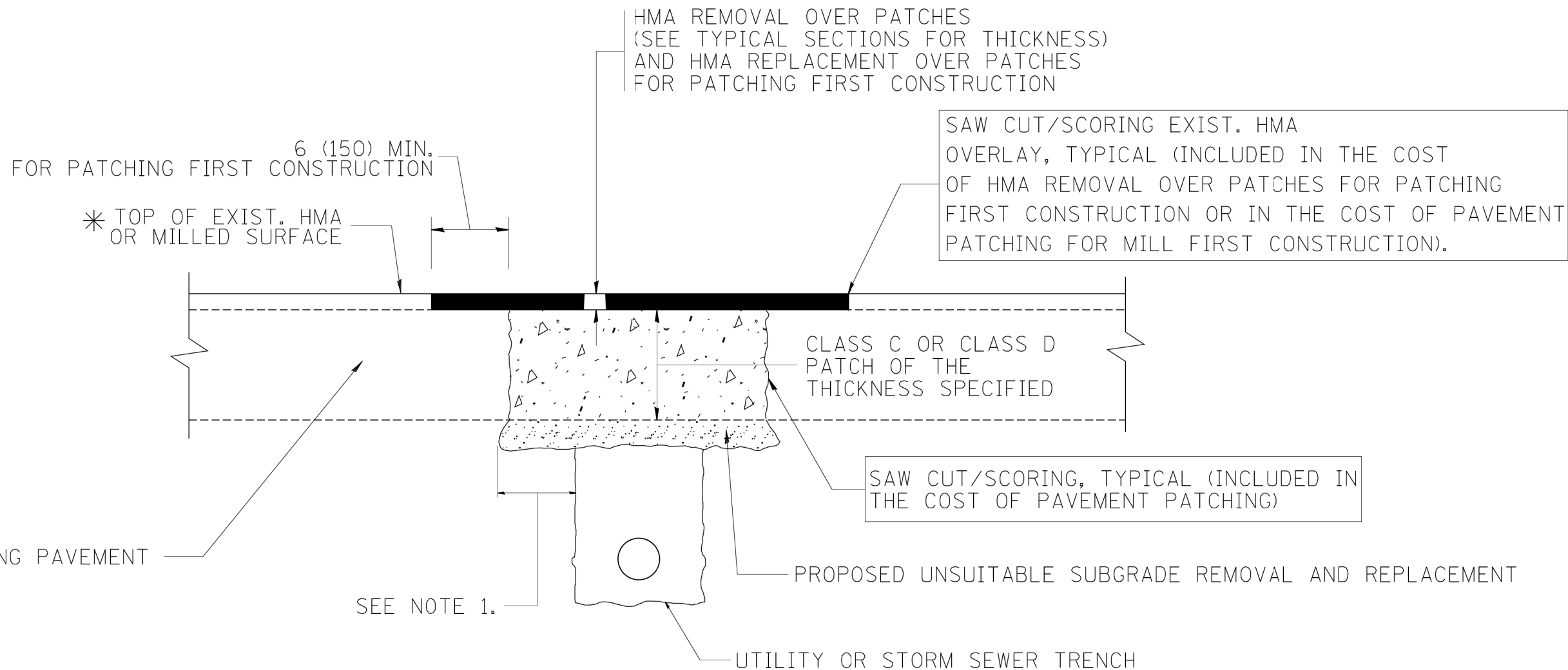
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		CHECKED -	REVISED - R. BORO 03-09-11
		DATE - 10-25-94	REVISED - R. BORO 12-06-11

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	105
BD600-03 (BD-8)		CONTRACT NO.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

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

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

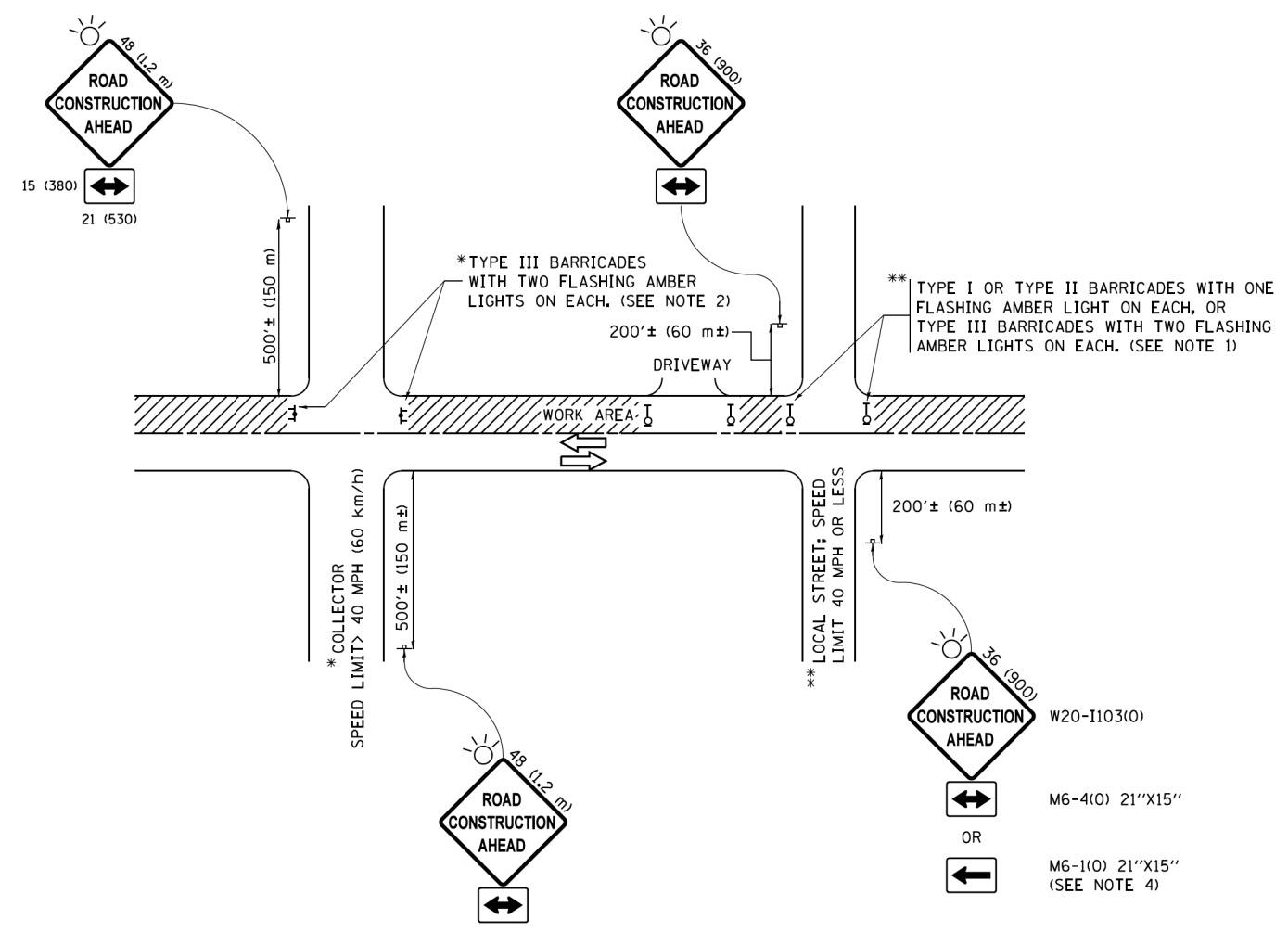
1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

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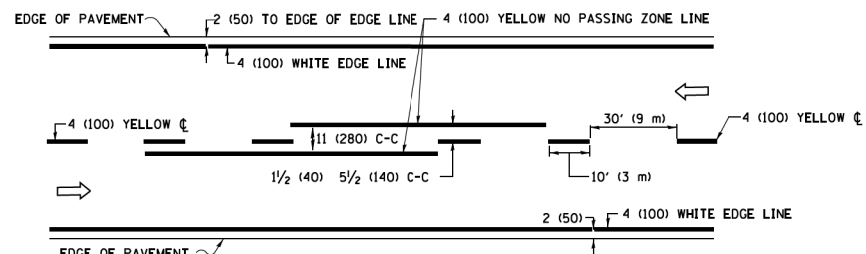


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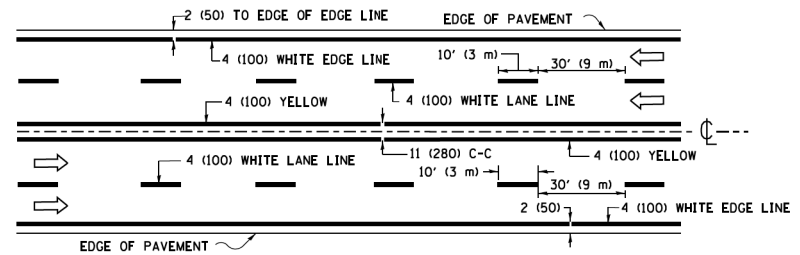
1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE 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. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
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.

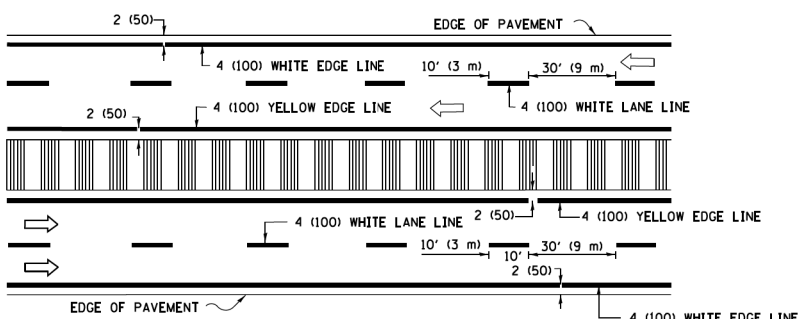
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pwt\11084E81D\INTEG\illinois.gov\FWIDOT\Documents\IDOT_Offices\District_1\Projects\Dist1\150020782\CAD\Drawings\CADsheets\tc10.dgn		DRAWN	REVISED - T. RAMMACHER 01-06-00		SCALE: NONE	SHEET 1	OF 1	SHEETS	STA.	TO STA.	1408	15-00129-00-BR	COOK	114	107
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2-LANE ROADWAY

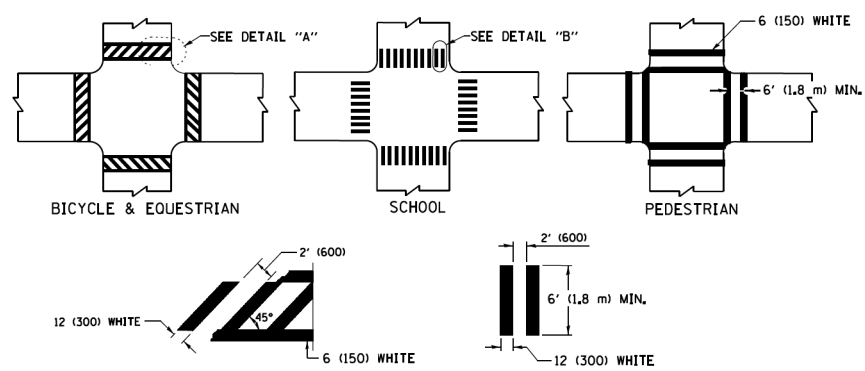


MULTI-LANE UNDIVIDED



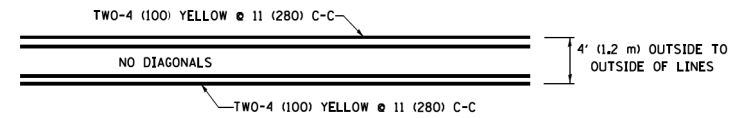
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

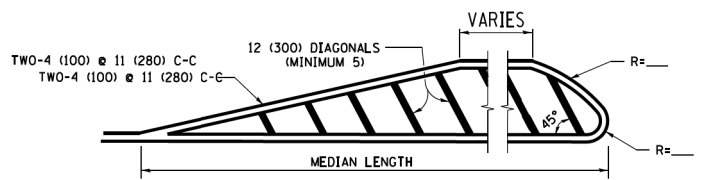


TYPICAL CROSSWALK MARKING

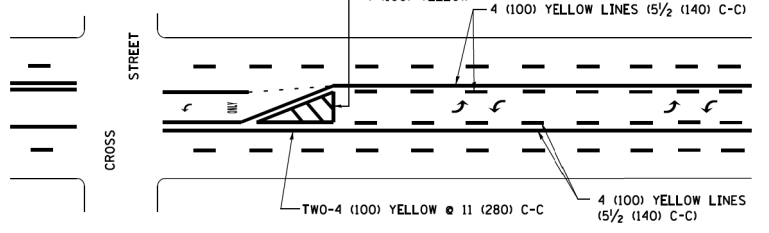
* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



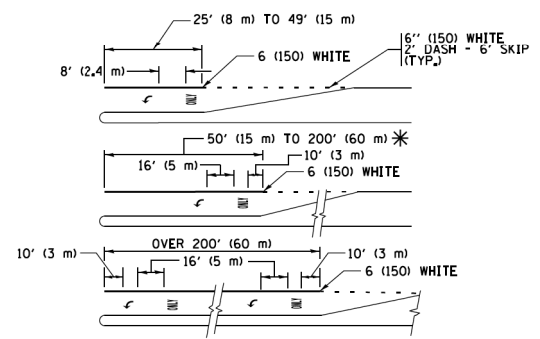
4' (1.2 m) WIDE MEDIANS ONLY



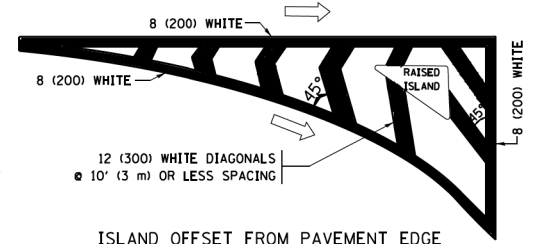
MEDIANS OVER 4' (1.2 m) WIDE



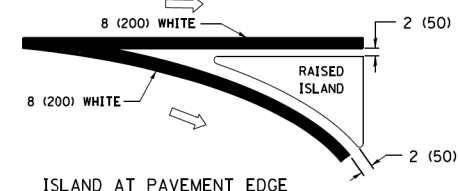
MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING



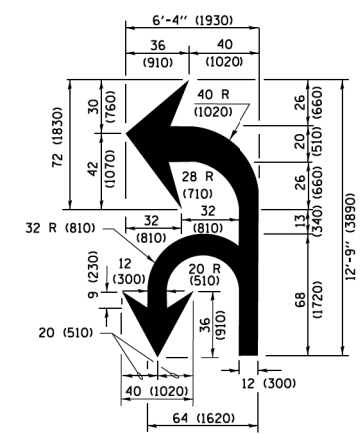
TYPICAL LEFT (OR RIGHT) TURN LANE TYPICAL TURN LANE MARKING



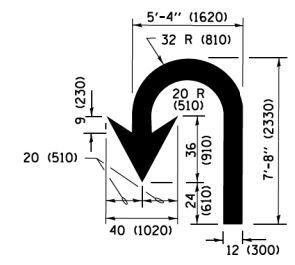
ISLAND OFFSET FROM PAVEMENT EDGE



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.
CORE 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 (30 MPH (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 "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"
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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W:\dststd\22x34\1c13.dgn		DRAWN -	REVISED - C. JUCIUS 07-01-13
Default	PLOT SCALE = 50,000' / 1" =	CHECKED -	REVISED - C. JUCIUS 12-21-15
	PLOT DATE = 6/23/2017	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16


**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**


DISTRICT ONE			
TYPICAL PAVEMENT MARKINGS			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.


F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	108
TC-13		CONTRACT NO.		
ILLINOIS/FED. AID PROJECT				

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ROUTE MARKERS


 FOR U.S. ROUTES
M1-40-2424


 FOR ILLINOIS ROUTES
M1-50-2424


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


ARROWS SIGNS

 M5-1L-2115


 M5-1R-2115


 M6-1-2115


 M6-1-2115


 M6-3-2115


CARDINAL DIRECTION & DETOUR SIGNS

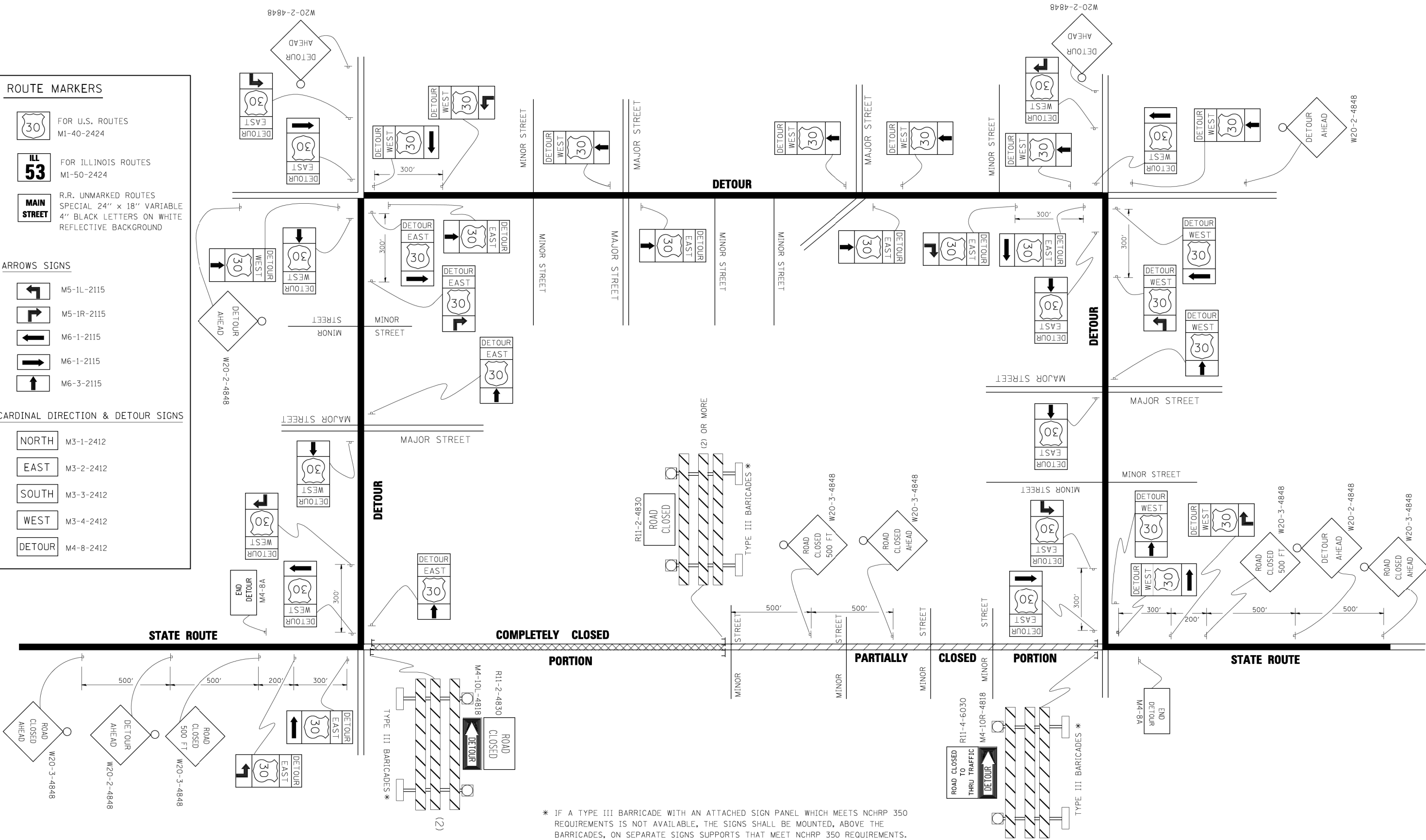
 NORTH M3-1-2412

 EAST M3-2-2412

 SOUTH M3-3-2412

 WEST M3-4-2412

 DETOUR M4-8-2412



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

FILE NAME =	USER NAME = d-ivakosgn	DESIGNED -	REVISED - 10-18-02
cs:\p\work\PWID01\DRIVAKOSGN\0108315\11-21-09.dgn		DRAWN -	REVISED - R. BORO 09-14-09
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

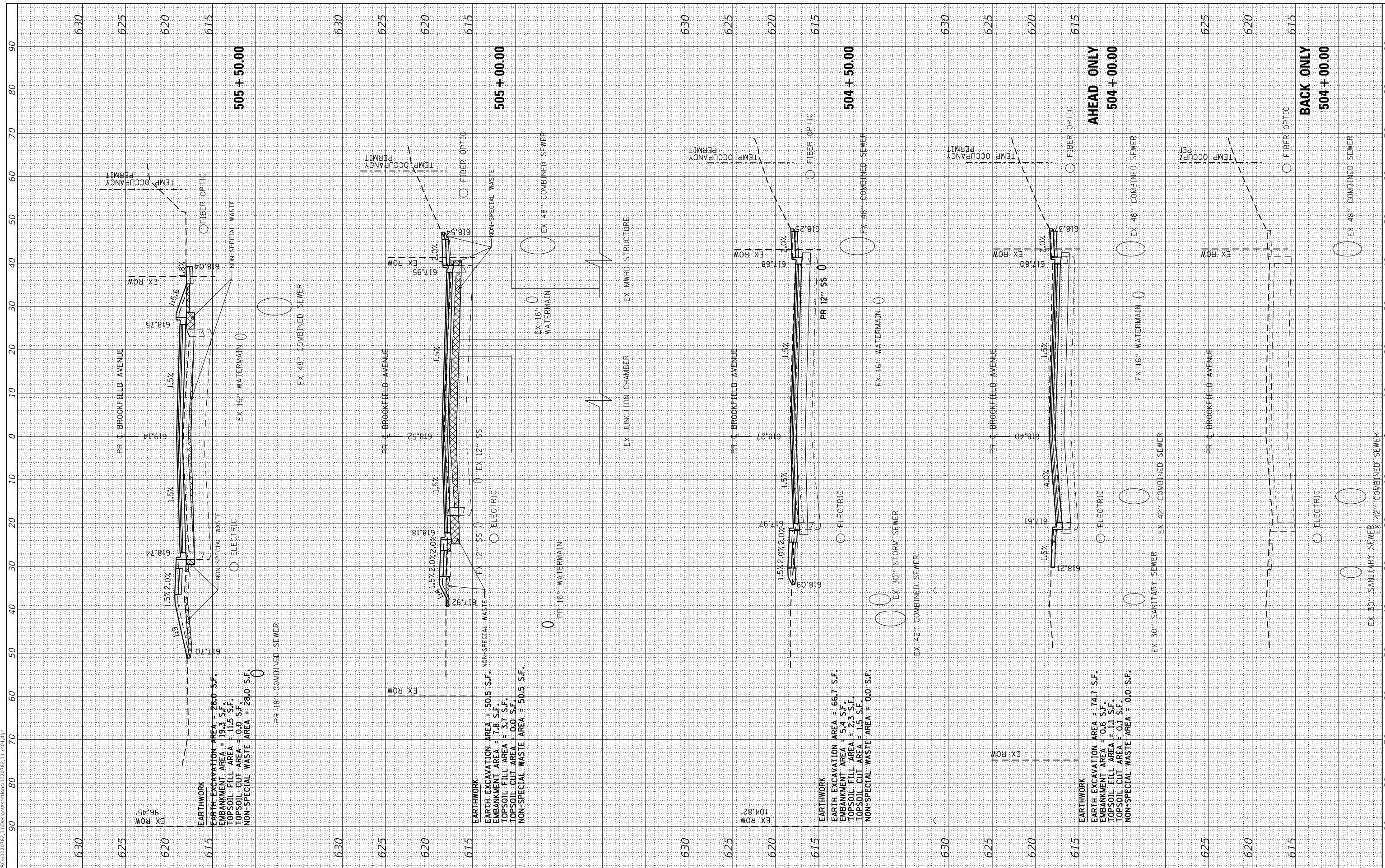
DETOUR SIGNING FOR CLOSING STATE HIGHWAYS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE. 1408	SECTION 15-00129-00-BR	COUNTY COOK	TOTAL SHEETS 114	SHEET NO. 109
TC-21		CONTRACT NO.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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

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

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USER NAME =	untitled
PLOT SCALE =	= 20.0000" / in.
PLOT DATE =	1/20/2021

DESIGNED -	EPS
DRAWN -	MLD
CHECKED -	DJO
DATE -	10/5/2020

REVISED -	
REVISED -	
REVISED -	
REVISED -	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

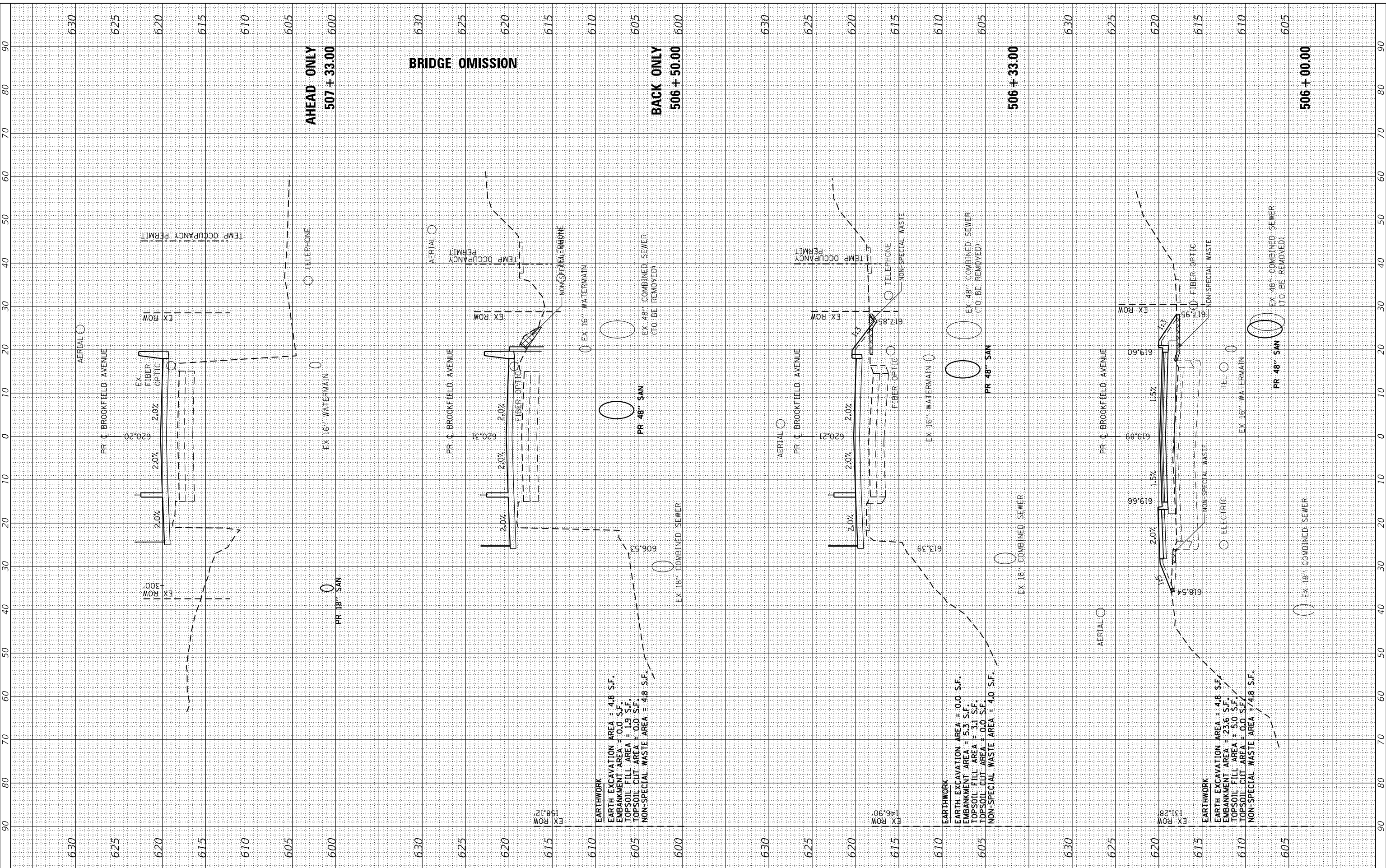
BROOKFIELD AVE OVER SALT CREEK
 CROSS SECTIONS
 SCALE: 1"=10'(H);5'(V) SHEET 1 OF 5 SHEETS STA. 504+00.00 TO STA. 505+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	110
CONTRACT NO.			61G22	
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	= untitled
PLOT SCALE	= 20.0000' / in.
PLOT DATE	= 1/20/2021

DESIGNED	- EPS
DRAWN	- MLD
CHECKED	- DJO
DATE	- 10/5/2020

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BROOKFIELD AVE OVER SALT CREEK
CROSS SECTIONS

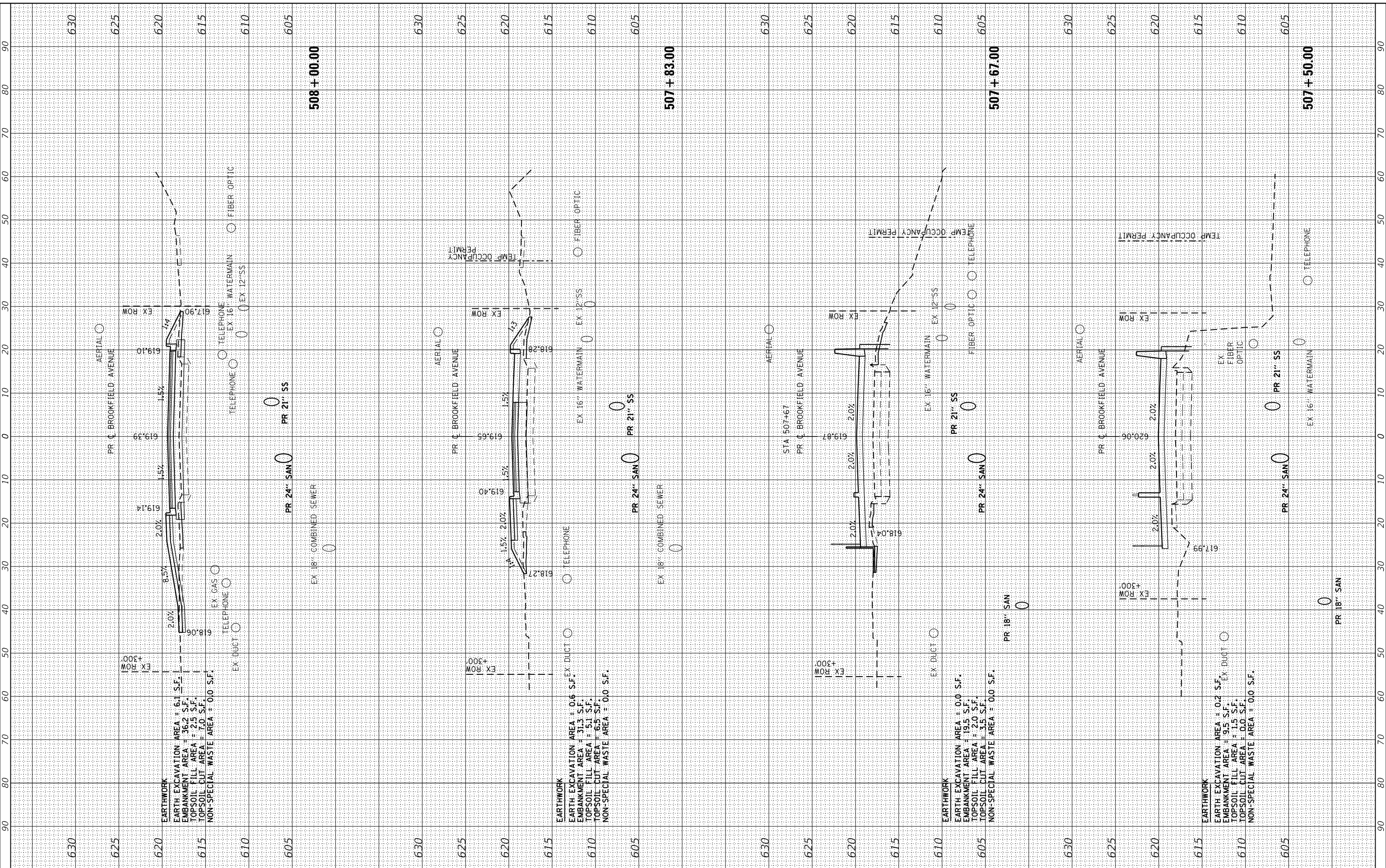
SCALE: 1"=10'(H):5'(V) SHEET 2 OF 5 SHEETS STA. 506+00.00 TO STA. 507+33.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	111
CONTRACT NO.			61G22	
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	= 20.0000' / in.
PLOT DATE	= 1/20/2021

DESIGNED	- EPS
DRAWN	- MLD
CHECKED	- DJO
DATE	- 10/5/2020

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BROOKFIELD AVE OVER SALT CREEK
CROSS SECTIONS

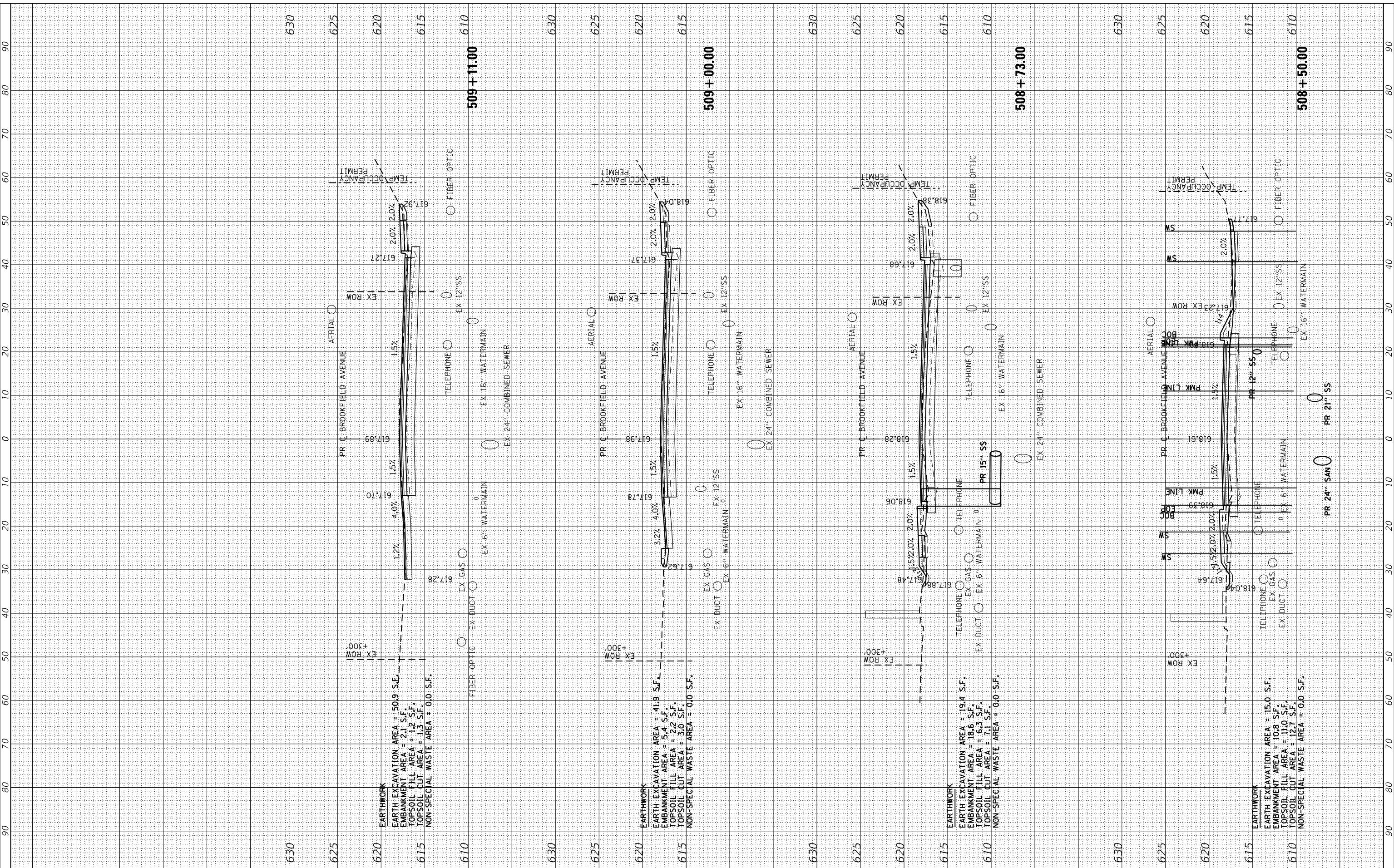
SCALE: 1"=10'(H);5'(V) SHEET 3 OF 5 SHEETS STA. 507+50.00 TO STA. 508+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	112
CONTRACT NO.			61G22	
ILLINOIS			FED. AID PROJECT	

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

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

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DRAWN -	MLD
CHECKED -	DJO
DATE -	10/5/2020
PLOT SCALE =	20.0000' / in.
PLOT DATE =	1/20/2021

REVISED -	
REVISED -	
REVISED -	
REVISED -	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

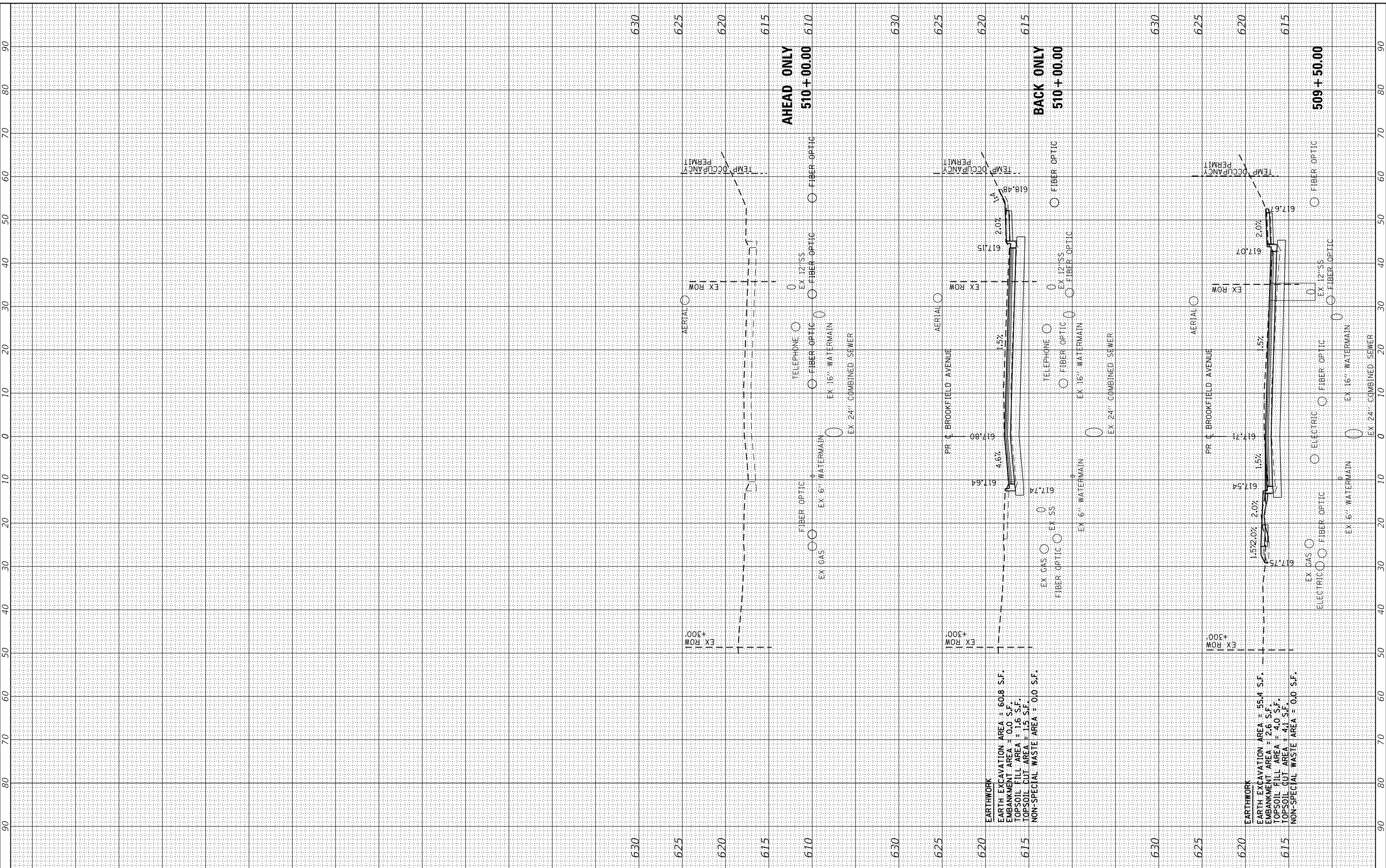
BROOKFIELD AVE OVER SALT CREEK
 CROSS SECTIONS
 SCALE: 1"=10'(H):5'(V) SHEET 4 OF 5 SHEETS STA. 508+50.00 TO STA. 509+11.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	113
CONTRACT NO.			61G22	
ILLINOIS		FED. AID PROJECT		

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

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

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DESIGNED -	EPS
DRAWN -	MLD
CHECKED -	DJO
DATE -	10/5/2020
PLOT SCALE =	20.0000' / in.
PLOT DATE =	1/20/2021

REVISED -	
REVISED -	
REVISED -	
REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BROOKFIELD AVE OVER SALT CREEK
CROSS SECTIONS**

SCALE: 1"=10'(H);5'(V) SHEET 5 OF 5 SHEETS STA. 509+50.00 TO STA. 510+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1408	15-00129-00-BR	COOK	114	114
CONTRACT NO.			61G22	
ILLINOIS		FED. AID PROJECT		