11–07–2025 LETTING ITEM 003

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	1
	ILLINOIS	CONTRACT NO. 60R94		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED
HIGHWAY PLANS

FAU 3565 IL 171 (ARCHER AVENUE) & 95TH STREET
SECTION U–1–N
PROJECT STP–5CJN(586)
AT&T PROJECT: A057TWJ
INTERSECTION RECONSTRUCTION
COOK COUNTY

C–91–268–12

FAU 3565
IL RTE 171
FUNCTIONAL CLASSIFICATION:
MINOR ARTERIAL
POSTED SPEED LIMIT = 55 MPH
2013 ADT = 7,150 (NORTH LEG)
= 14,500 (SOUTH LEG)
SU = 7.8% MU 6.5% (NORTH LEG)
SU = 2.7% MU 2.7% (SOUTH LEG)

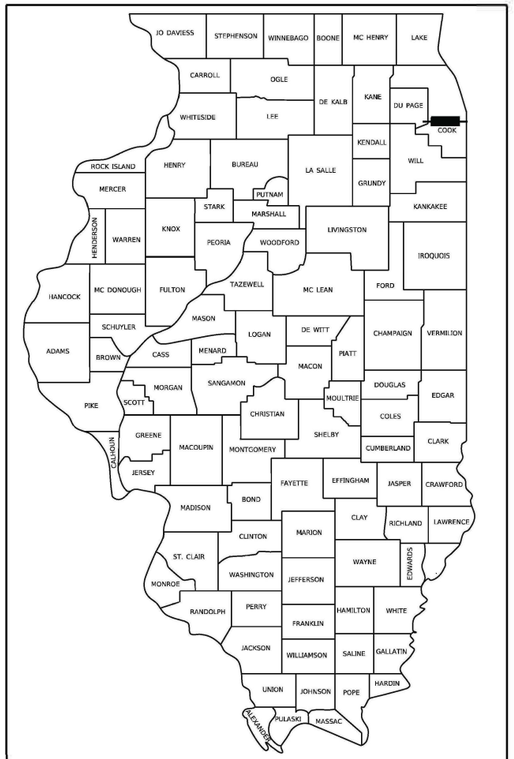
95th ST.
FUNCTIONAL CLASSIFICATION:
MINOR COLLECTOR
POSTED SPEED LIMIT = 30 MPH
2023 ADT = 8,350
SU & MU = INFORMATION NOT AVAILABLE

PROJECT LOCATED IN THE VILLAGE OF WILLOW SPRINGS (UNINCORPORATED)

AT&T ENGINEER:
CHRIS CASS
708–972–8993

CONTRACT COORDINATOR:
LOUIS PRUCHNICKI
773–315–3541

D–91–268–12



LOCATION OF SECTION INDICATED THUS: -

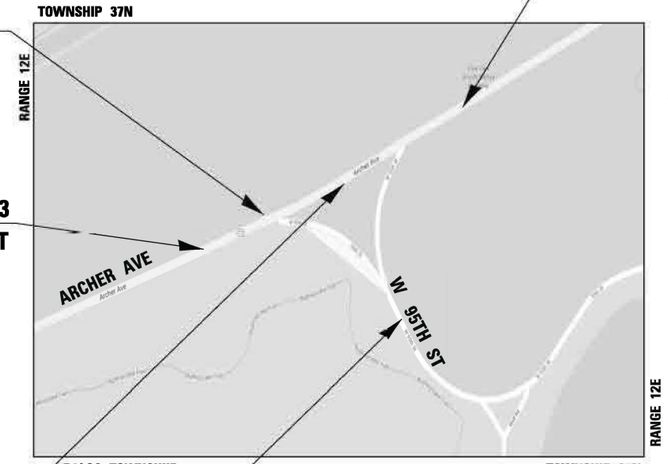
RETAINING WALL STRUCTURE
PROPOSED SN 016–2310
FAU ROUTE 3565
STA 317 + 80.14
STA 333 + 28.06
NEW RETAINING WALL

IL 171 STA. 338 + 50
END IMPROVEMENT

IL 171 STA. 313 + 83.63
BEGIN IMPROVEMENT

95TH ST. STA. 200 + 00
END IMPROVEMENT

95TH ST. STA. 191 + 00
BEGIN IMPROVEMENT



LOCATION MAP
(NOT TO SCALE)

0 100′ 200′ 300′ — 1″ = 100′
0 10′ 20′ 30′ — 1″ = 10′
0 50′ 100′ — 1″ = 50′
0 50′ 100′ — 1″ = 40′
0 50′ 100′ — 1″ = 30′
0 50′ 100′ — 1″ = 20′

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

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

PROFESSIONAL ENGINEER'S SIGN & SEAL
FOR SIGNING SHEETS: 1–36, 55–59, 71, 107–135
JOSEPH A. REGIS, PE
EXPIRES 11-30-2025
JOSEPH A. REGIS 062-047250 LICENSED PROFESSIONAL ENGINEER STATE OF ILLINOIS

PROFESSIONAL ENGINEER'S SIGN & SEAL
FOR SIGNING SHEETS: 60 – 70
TOBY C. MICKEY, P.E.
EXPIRES 11-30-2025
TOBY C. MICKEY 062-053237 LICENSED PROFESSIONAL ENGINEER STATE OF ILLINOIS

PROFESSIONAL ENGINEER'S SIGN & SEAL
FOR SIGNING SHEETS: Virginia Xiong
40 – 48
VIRGINIA XIONG, PE
EXPIRES 11-30-2025
LICENSED PROFESSIONAL ENGINEER VIRGINIA Y. XIONG 062-051361 OF ILLINOIS

PROFESSIONAL ENGINEER'S SIGN & SEAL
FOR SIGNING SHEETS:
72 – 100
VIRGINIA XIONG, PE
EXPIRES 11-30-2025
STATE OF ILLINOIS ERIK MINGEZ 081-006067 LICENSED PROFESSIONAL ENGINEER STRUCTURES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
SUBMITTED Aug 12th 2025
REGIONAL ENGINEER
October 3 2025
ENGINEER OF DESIGN AND ENVIRONMENT
October 3 2025
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PROJECT ENGINEER: FIRAS UDDIN, (847) 7054552
PROJECT MANAGER: MATTHEW ROTHENBERG, PE (847) 7054230

PROJECT LENGTH:
GROSS LENGTH = 3,366.37 FT = 0.64 MILES
NET LENGTH = 3,366.37 FT = 0.64 MILES

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

CONTRACT NO. 60R94

REV-SEP

INDEX OF SHEETS

HIGHWAY STANDARD

STANDARD NO.	DESCRIPTION
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
542546-01	FLUSH INLET BOX FOR MEDIAN
601001-05	PIPE UNDERDRAIN
602001-02	CATCH BASIN TYPE A
602401-07	PRECAST MANHOLE TYPE A 4' (1.22 M) DIAMETER
602402-03	PRECAST MANHOLE TYPE A 5' (1.52 M) DIAMETER
602406-11	PRECAST MANHOLE TYPE A 6' (1.83 M) DIAMETER
604001-05	FRAMES AND LIDS TYPE 1
604036-03	GRATE TYPE 8
604091-05	FRAME AND GRATE TYPE 24
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606006-04	OUTLETS FOR CONCRETE CURB AND GUTTER TYPE B-6.24 (B-15.60)
630001-13	STEEL PLATE BEAM GUARDRAIL
630201-07	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
631031-08	TRAFFIC BARRIER TERMINAL, TYPE 6
701001-02	OFF-ROAD OPERATIONS 2L 2W, MORE THAN 15 FT. (4.5 M) AWAY
701006-05	OFF-ROAD OPERATIONS 2L 2W, 15 FT. (4.5 M) TO 24 IN (600 MM) FROM PAVEMENT EDGE
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701501-06	LANE CLOSURE, URBAN 2L, 2W, UNDIVIDED
701502-09	LANE CLOSURE, URBAN 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-10	TRAFFIC CONTROL DEVICES
720016-04	MAST ARM MOUNTED STREET NAME SIGNS
729001-01	POSTS, METAL, APPLICATIONS FOR TYPE A AND B
780001-05	TYPICAL PAVEMENT MARKINGS
782006-01	REFLECTOR MOUNTING DETAILS, GUARDRAIL AND BARRIER WALL
805001-01	ELECTRICAL SERVICE INSTALLATION
814001-03	HANDHOLES, POLYMER CONCRETE, SINGLE
814006-03	HANDHOLES, CONCRETE AND POLYMER CONCRETE, DOUBLE
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
877001-08	MAST ARM ASSEMBLY AND POLE 16' THROUGH 55', STEEL
878001-11	FOUNDATIONS, DETAILS, CONCRETE
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS, POST AND BRACKET MOUNTED
886001-01	DETECTOR LOOP INSTALLATIONS

GENERAL NOTES

1. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES.
2. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
3. THE RESIDENT ENGINEER SHALL CONTACT AREA TRAFFIC FIELD ENGINEER VIA EMAIL AT PATRICE.HARRIS@ILLINOIS.GOV. A MINIMUM OF TWO WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
4. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
6. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN.HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
7. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
8. SHORT TERM PAVEMENT MARKING AND SHORT TERM PAVEMENT MARKING REMOVAL HAVE BEEN ADDED AS ALLOWANCE QUANTITIES.
9. THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF PLATED STRUCTURES AND OFFSET LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT.
10. THE CONTRACTOR WILL USE SETTLEMENT PLATFORMS IN THIS PROJECT UNDER THE DIRECTION OF THE ENGINEER.
11. ALL CLASS B PAVEMENT PATCHING WHICH REQUIRES FRAMES AND GRATES TO BE ADJUSTED SHALL BE CONSTRUCTED UTILIZING "CAST IN PLACE". ALTERNATE ACCORDING TO STATE HIGHWAY STANDARD 420111 FOR " PCC PAVEMENT ROUNDOUTS".
12. ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
13. WHEN THE MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1½ INCHES (40 mm) WHERE THE SPEED LIMIT IS 40 MPH (80 km/h) OR LESS AND 1 INCH (25 mm) WHERE THE SPEED LIMIT IS GREATER THAN THE 40 MPH (80 km/h) WITH WRITTEN APPROVAL OF THE ENGINEER. A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES (75 mm) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H) OR A NOTCHED LONGITUDINAL WEDGE IS USED.
14. BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT) ACCORDING TO THE "BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
15. THE SUBGRADE STABILITY SHALL BE VERIFIED BY PROOF ROLLING WITH A FULLY LOADED TANDEM-AXLE TRUCK.
16. GEOTECHNICAL FABRIC FOR GROUND STABILIZATION AND/OR AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAVE BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ABOVE ITEM WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE SSRBC AND IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.
17. ANY AGGREGATE SUBGRADE IMPROVEMENT CONTAMINATED AND/OR DAMAGED BY THE CONTRACTOR'S VEHICLES AND/OR EQUIPMENTS IS TO BE REMOVED AND REPLACED AS DIRECT BY THE ENGINEER AT CONTRACTOR'S EXPENSE.
18. THE AGGREGATE GRADATION FOR THE AGGREGATE SUBGRADE IMPROVEMENT 12" LOWER LIFT SHALL BE CA-1 OR RR 1.
19. PIPE UNDERDRAINS SHALL BE INSTALLED ACCORDING TO SECTION 601 OF THE SSRBC AND STANDARD 601001-05. TOP OF PIPE UNDERDRAINS SHALL BE PLACED MINIMUM 6" BELOW THE AGGREGATE SUBGRADE IMPROVEMENT LAYER. THE COST OF MAKING PIPE UNDERDRAINS CONNECTIONS TO DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF THE PIPE UNDERDRAINS.
20. BACKFILLING STORM SEWER CONSTRUCTED UNDER THE ROADWAY SPECIFIED UNDER ART. 550.07(b, c) OF THE SSRBC WILL NOT BE ALLOWED.
21. THE CONTRACTOR SHALL ERECT A TEMPORARY FENCE AROUND ALL TREES WITHIN THE CONSTRUCTION AREA TO ESTABLISH A "TREE PROTECTION ZONE" AND AROUND EXISTING WETLANDS TO ESTABLISH A "WETLAND PROTECTION ZONE" BEFORE ANY WORK BEGINS OR ANY MATERIAL IS DELIVERED ON THE JOBSITE. NO WORK IS TO BE PERFORMED (OTHER THAN ROOT PRUNING), MATERIALS STORED OR VEHICLES DRIVEN OR PARKED WITHIN THE "TREE PROTECTION ZONE" AND "WETLAND PROTECTION ZONE". REMOVE PROTECTIVE TEMPORARY FENCE ONLY AFTER ALL CONSTRUCTION WORK HAS BEEN COMPLETED.
22. THE CONTRACTOR SHALL ATTACH AN ALUMINIUM SIGN WITH THE FOLLOWING TEXT: PROTECTED WETLAND - NO INTRUSION. THE SIGN(S) SHALL BE ATTACHED TO THE STAKES BY A METHOD APPROVED BY THE ENGINEER THE SIGN(S) WILL BE PROVIDED BY THE CONTRACTOR. THE COST OF PROVIDING THE SIGNS AND ATTACHING THE SIGNS TO THE TEMPORARY FENCE STAKES WILL NOT BE PAID FOR SEPERATELY BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR TEMPORARY FENCE.
23. ALL TREE PROTECTION, TEMPORARY FENCING, TREE REMOVAL, TREE PRUNING AND ROOT PRUNING SHALL BE COMPLETED BEFORE CONSTRUCTION OPERATIONS COMMENCE IN ANY AREA.
24. THE CONTRACTOR SHALL TAKE PRECAUTION BY PRESERVING EXISTING TREES WITHIN THE RIGHT OF WAY. IF ANY DAMAGE OCCURS, TREES SHALL BE REPLACED IN KIND PER ARTICLE 201.07 REPAIR OR REPLACEMENT OF EXISTING PLANT MATERIAL REQUIREMENTS STATED HEREIN.
25. THE CONTRACTOR SHALL TAKE EXTRA CARE IN GRADING AND EXCAVATING NEAR TREES WHICH ARE NOT MARKED FOR REMOVAL SO AS NOT TO CAUSE INJURY TO THE ROOT SYSTEM OR TRUNKS. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE.
26. THE ENGINEER WILL CONTACT THE ROADSIDE DEVELOPMENT UNIT AT 847-705-4171, AT LEAST 7 DAYS PRIOR TO TREE REMOVAL AND PRIOR TO PLANTING TO CHECK THE LAYOUT OF THE TREE REMOVAL AND OTHER LANDSCAPING ITEMS
27. THIS PROJECT REQUIRES A US ARMY CORPS OF ENGINEERS (USACE) 404 PERMIT THAT WILL BE SECURED BY THE DEPARTMENT. THE DEPARTMENT HAS DETERMINED THAT IN STREAM WORK IS NOT REQUIRED FOR THE WORK SPECIFIED IN THIS CONTRACT. THE CONTRACTOR IS RESPONSIBLE TO MEET THE NON-REPORTING THRESHOLDS CONTAINED IN THE TERMS AND CONDITIONS OF THE PERMIT.
28. THE DEPARTMENT HAS NOT OBTAINED ANY PERMITS FOR OFFSITE BORROW, WASTE, USE (BWU) AREAS. PRIOR TO WORKING IN BWU AREAS, IF THE CONTRACTOR CHOOSES TO USE ACTIVITIES REQUIRING PERMITS IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPER PERMITS. IN ADDITION TO THE BORROW REVIEW (BDE 2289) AND USE/WASTE REVIEW (BDE 2290) SUBMITTALS, THE CONTRACTOR SHALL SUBMIT AN EROSION AND SEDIMENT CONTROL (ESC) PLAN FOR EVERY BWU SITE TO THE DEPARTMENT FOR ACCEPTANCE. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT ESC PLANS WILL NOT BE PAID FOR SEPERATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

PROJECT COMMITMENTS

1. A RETAINING WALL WILL BE CONSTRUCTED ALONG THE NORTH SIDE OF IL 171 TO REDUCE THE PROJECT FOOTPRINT AND MINIMIZE THE RIGHT OF WAY REQUIREMENTS. AESTHETIC TREATMENTS SUCH AS FORM LINERS AND/OR CONCRETE COLORING WILL BE UTILIZED TO BETTER BLEND THE WALL INTO THE SURROUNDING ENVIRONMENT.
2. NO TREES SHALL BE REMOVED BETWEEN APRIL 1 THROUGH OCTOBER 31 OF ANY CONSTRUCTION YEAR, DUE TO A KNOWN OCCURRENCE OF THE NORTHERN LONG EARED BAT (NLEB).
3. THE DEPARTMENT WILL CONTACT THE FPDCC PRIOR TO THE START OF CONSTRUCTION TO INFORM THEM OF THE INITIATION OF CONSTRUCTION ACTIVITIES NEAR THEIR PROPERTIES. A COMMITMENT WILL BE INCLUDED IN THE PROJECT REPORT AS FOLLOWS: "THE CONSTRUCTION RESIDENT ENGINEER WILL CONTACT THE FPDCC PRIOR TO THE START OF CONSTRUCTION TO INFORM THEM OF THE INITIATION OF CONSTRUCTION ACTIVITIES NEAR THEIR PROPERTIES."
4. THE DEPARTMENT ANALYZED SEVERAL OPTIONS FOR THE MANAGING CONSTRUCTION TRAFFIC OF THE PROJECT IN ORDER TO MINIMIZE IMPACTS TO THE FPDCC PROPERTY AND TO THE MOTORIST. THE DEPARTMENT CONCLUDED THAT A DETOUR WOULD PROVIDE THE LEAST AMOUNT OF IMPACTS TO THE FOREST PRESERVE DISTRICT OF COOK COUNTY AND MINIMIZE PROJECT CONSTRUCTION SCHEDULES. THE PROPOSED DETOUR ROUTE MAY BE FOUND IN THE DETOUR PLAN.

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE 80& FED 20% STATE ROADWAY 0004 RURAL
*	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	100	100
*	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	100	100
	20101000	TEMPORARY FENCE	FOOT	460	460
*	20101100	TREE TRUNK PROTECTION	EACH	10	10
*	20101200	TREE ROOT PRUNING	EACH	10	10
*	20101300	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	10	10
*	20101350	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	10	10
	20101400	NITROGEN FERTILIZER NUTRIENT	POUND	360	360
	20101600	POTASSIUM FERTILIZER NUTRIENT	POUND	360	360
	20101700	SUPPLEMENTAL WATERING	UNIT	10	10
	20200100	EARTH EXCAVATION	CU YD	4059	4059
	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	2883	2883
	20400800	FURNISHED EXCAVATION	CU YD	40204	40204
	20700220	POROUS GRANULAR EMBANKMENT	CU YD	2833	2833
	20800150	TRENCH BACKFILL	CU YD	4551	4551
	21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	100	100

* SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE 80& FED 20% STATE ROADWAY 0004 RURAL
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	1345	1345
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	12918	12918
* 25000115	SEEDING, CLASS 1B	ACRE	2	2
* 25000210	SEEDING, CLASS 2A	ACRE	2	2
* 25000312	SEEDING, CLASS 4A	ACRE	1	1
* 25100125	MULCH, METHOD 3	ACRE	3	3
25100645	WILDLIFE FRIENDL Y EROSION CONTROL BLANKET	SQ YD	9680	9680
28000250	TEMPORAR Y EROSION CONTROL SEEDING	POUND	450	450
28000305	TEMPORARY DITCH CHECKS	FOOT	840	840
* 28000400	PERIMETER EROSION BARRIER	FOOT	6700	6700
* 28000510	INLET FILTERS	EACH	24	24
28100105	STONE RIPRAP, CLASS A3	SQ YD	56	56
28100107	STONE RIPRAP, CLASS A4	SQ YD	140	140
* 28200200	FILTER FABRIC	SQ YD	70	70
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	2663	2663
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	15446	15446

* SPECIALTY ITEM

MODEL: $MODELNAME$
FILE NAME: D160R94-sht-SOQ.dgn

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60515

USER NAME = jregis	DESIGNED - JAR	REVISED -
	DRAWN - MD/SR	REVISED -
PLOT SCALE = $SCALE$	CHECKED - AS	REVISED -
PLOT DATE = 6/5/2025	DATE - 03/18/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 171 (ARCHER AVE) & 95TH ST.
SUMMARY OF QUANTITIES

SCALE: NTS | SHEET 2 OF 11 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	4

CONTRACT NO. 60R94

ILLINOIS | FED. AID PROJECT

REV-SEP

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE 80& FED 20% STATE ROADWAY 0004 RURAL
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	34753	34753
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	5362	5362
40600370	LONGITUDINAL JOINT SEALANT	FOOT	6487	6487
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	7	7
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	160	160
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	179	179
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	147	147
40701841	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 8"	SQ YD	2008	2008
40701881	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 10"	SQ YD	8592	8592
44000100	PAVEMENT REMOVAL	SQ YD	11088	11088
48203037	HOT-MIX ASPHALT SHOULDERS, 10"	SQ YD	2150	2150
50105220	PIPE CULVERT REMOVAL	FOOT	302	302
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	590	590
50300255	CONCRETE SUPERSTRUCTURE	CU YD	905.2	905.2

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE 80& FED 20% STATE ROADWAY 0004 RURAL
50300300	PROTECTIVE COAT	SQ YD	2077	2077
50800105	REINFORCEMENT BARS	POUND	45830	45830
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	129860	129860
* 51500100	NAME PLATES	EACH	2	2
52200500	MECHANICALLY STABILIZED EARTH RETAINING WALL	SQ FT	19230	19230
54003000	CONCRETE BOX CULVERTS	CU YD	216	216
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	3	3
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	2	2
54213672	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 27"	EACH	1	1
54215415	CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 15"	EACH	1	1
54215430	CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 30"	EACH	1	1
54244405	FLUSH INLET BOX FOR MEDIAN, STANDARD 542546	EACH	6	6
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	2885	2885
550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	745	745

* SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE 80& FED 20% STATE ROADWAY 0004 RURAL
54215430	CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 30"	EACH	1	1
54244405	FLUSH INLET BOX FOR MEDIAN, STANDARD 542546	EACH	6	6
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	2885	2885
550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	745	745
550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	24	24
550A0720	STORM SEWERS, CLASS A, TYPE 3 27"	FOOT	186	186
550A0730	STORM SEWERS, CLASS A, TYPE 3 30"	FOOT	123	123
55100500	STORM SEWER REMOVAL 12"	FOOT	150	150
55100700	STORM SEWER REMOVAL 15"	FOOT	69	69
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	8	8
60108204	PIPE UNDERDRAINS, TYPE 2, 4"	FOOT	5623	5623
60200805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	12	12
60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	21	21
60221000	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1	1

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE 80& FED 20% STATE ROADWAY 0004 RURAL
60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	9	9
60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1
60224005	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 8 GRATE	EACH	1	1
60500050	REMOVING CATCH BASINS	EACH	2	2
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	1875	1875
63000007	STEEL PLATE BEAM GUARDRAIL, TYPE B, 6 FOOT POSTS	FOOT	330	330
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	2	2
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	200	200
66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2
66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1
66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1
66901006	REGULATED SUBSTANCES MONITORING	CAL DA	10	10
67100100	MOBILIZATION	L SUM	1	1

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE 80& FED 20% STATE ROADWAY 0004 RURAL
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	100	100
70300100	SHORT TERM PAVEMENT MARKING	FOOT	1952	1952
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	651	651
72000100	SIGN PANEL - TYPE 1	SQ FT	12	12
72000200	SIGN PANEL - TYPE 2	SQ FT	14	14
72900200	METAL POST - TYPE B	FOOT	48	48
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	291	291
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	3904	3904
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1343	1343
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	150	150
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	108	108
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	83	83
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1100	1100
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	30	30

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE 80& FED 20% STATE ROADWAY 0004 RURAL
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	411	411
81400100	HANDHOLE	EACH	1	1
81400200	HEAVY-DUTY HANDHOLE	EACH	4	4
81400300	DOUBLE HANDHOLE	EACH	1	1
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1044	1044
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	913	913
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	866	866
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	574	574
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	896	896
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1	1
87700210	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1	1
87700310	STEEL MAST ARM ASSEMBLY AND POLE, 54 FT.	EACH	1	1
87700330	STEEL MAST ARM ASSEMBLY AND POLE, 56 FT.	EACH	1	1
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	8	8

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE 80& FED 20% STATE ROADWAY 0004 RURAL
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4	4
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	13.5	13.5
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	15	15
87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	21	21
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4	4
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4	4
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2	2
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2	2
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	6	6
88500100	INDUCTIVE LOOP DETECTOR	EACH	4	4
88600100	DETECTOR LOOP, TYPE I	FOOT	202	202
E20210Q1	VINE-PARTHENOCISSUS QUINQUEFOLIA ENGEL MANNII (ENGELMANNII VIRGINIA CREEPER), 1-QUART POT	EACH	160	160
K0029618	WEED CONTROL, BROADLEAF IN TURF	GALLON	2.5	2.5
K0029632	WEED CONTROL, NON-SELECTIVE AND NON-RESIDUAL	GALLON	2.5	2.5

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE 80& FED 20% STATE ROADWAY 0004 RURAL
X0325222	WEED CONTROL, BASAL TREATMENT	GALLON	30	30
X1400150	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1	1
X2010402	STUMP REMOVAL, ACRES	ACRE	10	10
X2503110	MOWING (SPECIAL)	ACRE	5	5
X2810108	STONE RIPRAP, CLASS A4 (SPECIAL)	SQ YD	70	70
X5020100	AGGREGATE COLUMN GROUND IMPROVEMENT	L SUM	1	1
X5021512	COFFERDAM (TYPE 1) (IN-STREAM/WETLAND WORK)	EACH	1	1
X5400005	BOX CULVERT REMOVAL	FOOT	226	226
X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	1	1
X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	14	14
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1
X7200061	TEMPORARY INFORMATION SIGNING	SQ FT	22	22
X8570233	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1	1
X8620250	UNINTERRUPTABLE POWER SUPPLY AND CABINET (SPECIAL)	EACH	1	1

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE 80& FED 20% STATE ROADWAY 0004 RURAL
X8891001	VIDEO VEHICLE DETECTION SYSTEM	EACH	1	1
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	8	8

LOCATION		EARTH EXCAVATION	ADJUSTED EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (15%)	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	TOPSOIL
IL 171 Mainline		CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD
STA 313+50.00	TO 339+00.00					
313+50.00	314+00.00	55.7	47.4	2.9	44.5	1.8
314+00.00	314+50.00	110.0	93.5	6.3	87.2	3.6
314+50.00	315+00.00	122.0	103.7	12.2	91.5	8.9
315+00.00	315+50.00	128.8	109.5	17.3	92.2	12.4
315+50.00	316+00.00	122.8	104.4	14.8	89.6	9.6
316+00.00	316+50.00	122.5	104.1	15.2	89.0	11.1
316+50.00	317+00.00	143.2	121.7	32.2	89.5	16.7
317+00.00	317+50.00	114.0	96.9	69.4	27.5	18.5
317+50.00	318+00.00	49.5	42.1	138.9	-96.8	16.6
318+00.00	318+50.00	21.8	18.5	230.2	-211.7	12.1
318+50.00	319+00.00	7.8	6.7	364.3	-357.6	9.5
319+00.00	319+50.00	7.9	6.7	520.2	-513.5	11.7
319+50.00	320+00.00	7.9	6.7	685.9	-679.2	13.1
320+00.00	320+50.00	8.0	6.8	853.4	-846.7	14.4
320+50.00	321+00.00	8.1	6.9	1,037.0	-1,030.2	15.8
321+00.00	321+50.00	8.1	6.9	1,292.7	-1,285.8	16.7
321+50.00	322+00.00	8.0	6.8	1,552.9	-1,546.1	16.7
322+00.00	322+50.00	8.2	7.0	1,806.5	-1,799.5	18.8
322+50.00	323+00.00	8.1	6.9	2,063.1	-2,056.1	26.5
323+00.00	323+50.00	8.0	6.8	2,199.2	-2,192.4	36.2
323+50.00	324+00.00	7.9	6.7	2,093.5	-2,086.8	31.0
324+00.00	324+50.00	7.7	6.5	2,050.0	-2,043.5	21.9
324+50.00	325+00.00	7.7	6.5	2,449.1	-2,442.6	15.7
325+00.00	325+50.00	7.7	6.5	2,652.8	-2,646.2	14.3
325+50.00	326+00.00	7.7	6.6	2,350.9	-2,344.4	24.9
326+00.00	326+50.00	7.7	6.6	2,037.0	-2,030.5	30.8
326+50.00	327+00.00	8.2	6.9	1,933.3	-1,926.4	32.2
327+00.00	327+50.00	8.3	7.1	1,977.8	-1,970.7	38.9
327+50.00	328+00.00	7.9	6.7	1,921.3	-1,914.6	34.8
328+00.00	328+50.00	16.1	13.7	1,710.2	-1,696.5	23.8
328+50.00	329+00.00	21.2	18.0	1,432.4	-1,414.4	20.9
329+00.00	329+50.00	18.9	16.1	1,214.2	-1,198.1	18.2
329+50.00	330+00.00	31.7	26.9	1,018.8	-991.9	16.6
330+00.00	330+50.00	32.5	27.6	809.3	-781.7	14.5
330+50.00	331+00.00	21.7	18.5	652.8	-634.3	12.4
331+00.00	331+50.00	21.7	18.4	511.1	-492.7	11.1
331+50.00	332+00.00	20.3	17.2	408.3	-391.1	10.5
332+00.00	332+50.00	19.4	16.5	342.6	-326.1	9.7
332+50.00	333+00.00	23.5	19.9	274.1	-254.1	9.3
333+00.00	333+50.00	20.7	17.6	228.7	-211.1	9.0
333+50.00	334+00.00	12.5	10.6	201.2	-190.6	7.9
334+00.00	334+50.00	11.0	9.3	166.9	-157.6	7.8
334+50.00	335+00.00	11.3	9.6	135.6	-125.9	8.3
335+00.00	335+50.00	14.9	12.7	92.7	-80.0	7.8
335+50.00	336+00.00	22.5	19.1	51.5	-32.4	6.9
336+00.00	336+50.00	48.3	41.1	31.4	9.7	6.9
336+50.00	337+00.00	81.5	69.2	8.4	60.8	7.7
337+00.00	337+50.00	108.5	92.2	0.6	91.6	6.9
337+50.00	338+00.00	123.1	104.6	0.0	104.6	3.6
338+00.00	338+50.00	117.2	99.6	0.0	99.6	0.9
338+50.00	339+00.00	56.2	47.8	0.0	47.8	0.0
	TOTAL	1,996	1,696	41,671	-39,975	756

LOCATION		EARTH EXCAVATION	ADJUSTED EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (15%)	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	TOPSOIL
E95 Mainline		CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD
STA 190+50.00	TO 199+50.00					
190+50.00	191+00.00	146.8	124.8	0.0	124.8	8.0
191+00.00	191+14.73	59.5	50.6	0.5	50.0	26.4
191+14.73	191+30.00	74.5	63.3	0.2	63.1	0.0
191+30.00	191+50.00	363.4	308.9	0.0	308.9	0.0
191+50.00	191+67.00	254.9	216.7	0.5	216.2	39.1
191+67.00	192+00.00	402.5	342.1	3.9	338.2	0.0
192+00.00	192+50.00	301.3	256.1	12.6	243.5	40.0
192+50.00	193+00.00	202.2	171.9	51.8	120.1	35.8
193+00.00	193+50.00	138.6	117.8	79.2	38.7	30.8
193+50.00	194+00.00	123.6	105.1	86.3	18.8	30.3
194+00.00	194+50.00	166.8	141.7	95.6	46.2	29.8
194+50.00	195+00.00	191.6	162.8	81.9	80.9	28.5
195+00.00	195+50.00	156.6	133.1	76.7	56.5	31.4
195+50.00	196+00.00	90.4	76.9	87.0	-10.1	27.7
196+00.00	196+50.00	39.0	33.2	125.6	-92.4	22.2
196+50.00	197+00.00	14.2	12.1	261.4	-249.3	34.4
197+00.00	197+50.00	7.7	6.5	258.6	-252.0	37.3
197+50.00	198+00.00	73.2	62.2	88.2	-26.0	26.2
198+00.00	198+50.00	174.0	147.9	54.5	93.4	30.9
198+50.00	199+00.00	144.5	122.8	474.5	-351.7	47.1
199+00.00	199+50.00	43.5	37.0	2,109.4	-2,072.4	63.5
	TOTAL	3,169	2,693	3,948	-1,255	589

MODEL: $MODELNAME$
FILE NAME: D160R94-sht-Earthwork Summary Table.dgn

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = Srahman	DESIGNED - JAR	REVISED -	
	DRAWN - MD/SR	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - AS	REVISED -	
PLOT DATE = 5/23/2025	DATE - 03/18/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

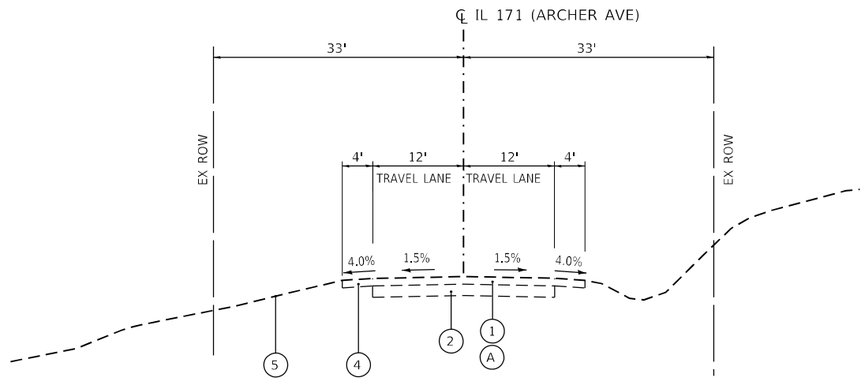
IL 171 (ARCHER AVE) & 95TH ST.
EARTHWORK SUMMARY TABLES

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

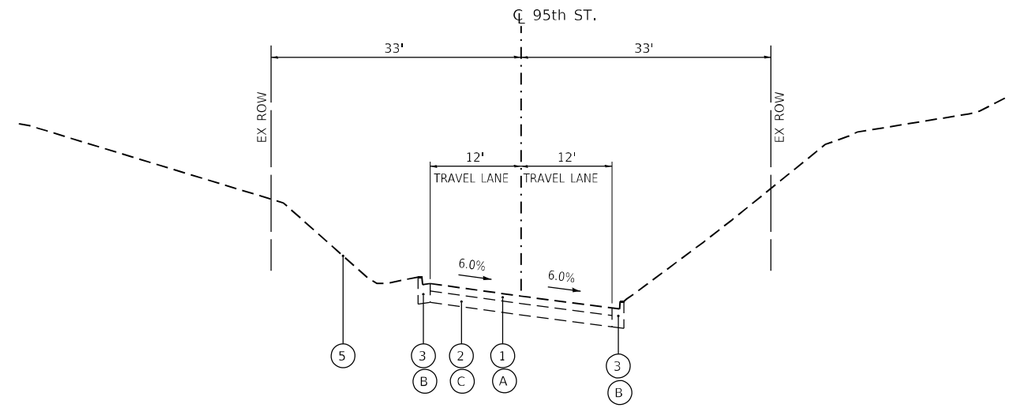
F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	14

CONTRACT NO. 60R94

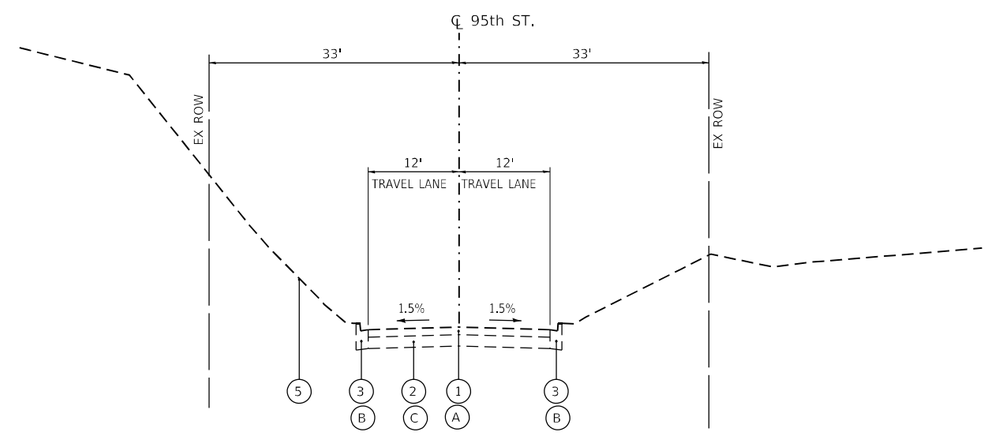
ILLINOIS | FED. AID PROJECT



IL 171 (ARCHER AVE)
STA 313+83.63 TO STA 338+50



95TH ST.
STA 191+00 TO STA 194+50



95TH ST.
STA 194+50 TO STA 196+00

EXISTING LEGEND

1. HMA SURFACE, 6" ±
2. PCC PAVEMENT, 9" ±
3. CC & G, TYPE B-6.12
4. HMA SHOULDER, 6"
5. EXISTING GROUND

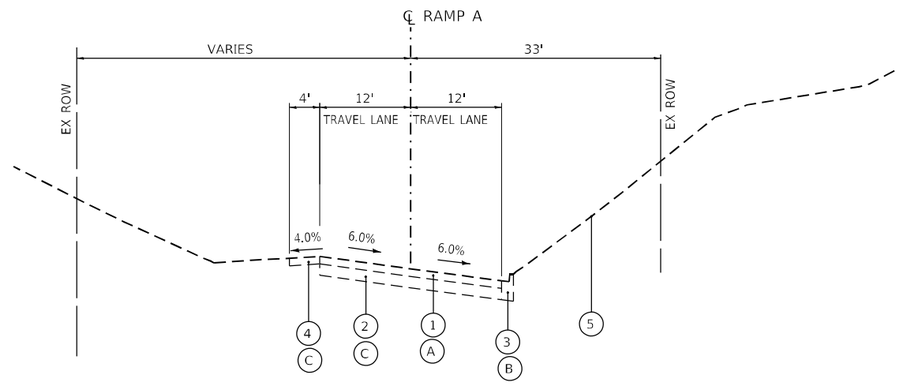
REMOVAL LEGEND

- A PAVEMENT REMOVAL
- B COMBINATION CURB AND GUTTER REMOVAL
- C EARTH EXCAVATION

MODEL: $MODELNAME$
FILE NAME: D:\60R94-sht-Typical Section-1.dgn

AMES Engineering, Inc. CONSULTING ENGINEERS 6330 Belmont Road, Suite 4B Downers Grove, IL 60515	USER NAME = Srahman	DESIGNED - JAR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 171 (ARCHER AVE) & 95TH ST. EXISTING TYPICAL SECTIONS
		DRAWN - MD/SR	REVISED -		
	PLOT SCALE = $SCALE$	CHECKED - AS	REVISED -		
	PLOT DATE = 5/23/2025	DATE - 03/18/2025	REVISED -		SCALE: NTS SHEET 1 OF 5 SHEETS STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	15
		CONTRACT NO. 60R94		
	ILLINOIS	FED. AID PROJECT		

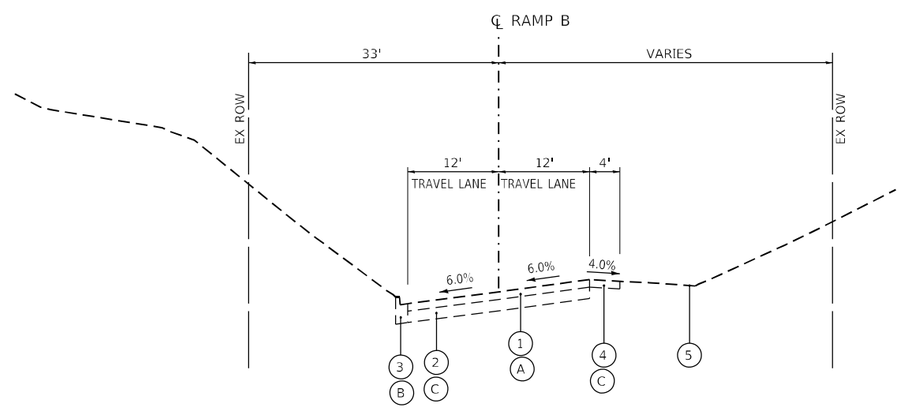


RAMP A

STA 10+85 TO STA 17+13.44

REMOVAL LEGEND

- (A) PAVEMENT REMOVAL
- (B) COMBINATION CURB AND GUTTER REMOVAL
- (C) EARTH EXCAVATION



RAMP B

STA 61+76.03 TO STA 68+33.65

EXISTING LEGEND

1. HMA SURFACE, 6" ±
2. PCC PAVEMENT, 9" ±
3. CC & G, TYPE B-6.12
4. AGGREGATE SHOULDER
5. EXISTING GROUND

MODEL: $MODELNAME$
FILE NAME: D160R94-sht-Typical Sections-2.dgn

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60515

USER NAME = Srahman	DESIGNED - JAR	REVISED -	
	DRAWN - MD/SR	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - AS	REVISED -	
PLOT DATE = 5/23/2025	DATE - 03/18/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

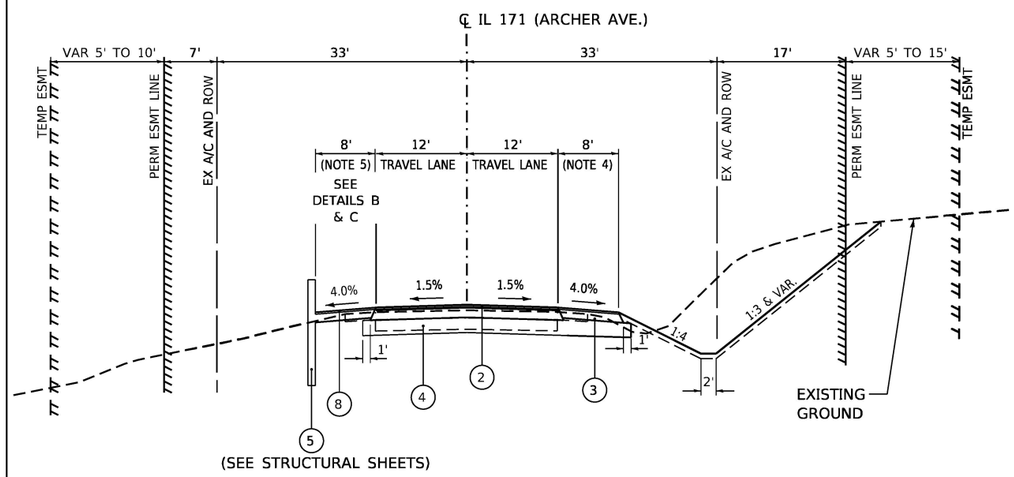
IL 171 (ARCHER AVE) & 95TH ST.
EXISTING TYPICAL SECTIONS

SCALE: NTS | SHEET 2 OF 5 SHEETS | STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	16

CONTRACT NO. 60R94

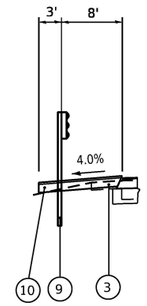
ILLINOIS | FED. AID PROJECT



STA 317+80.14 TO STA 333+28.06 AND NOTE 6

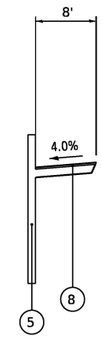
PROPOSED TYPICAL SECTION
IL 171 (ARCHER AVE)

STA 313+83.63 TO STA 319+09.08
STA 333+27.82 TO STA 338+50



DETAIL B

STEEL PLATE BEAM GUARDRAIL
STA 315+63.03 TO STA 317+80.14
STA 333+28.06 TO STA 335+91.16



DETAIL C

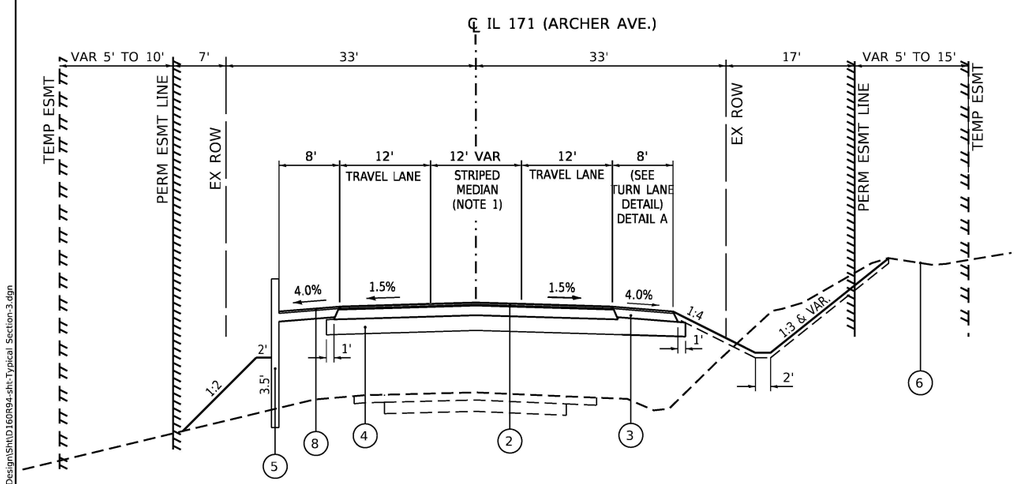
RETAINING WALL
STA 317+80.14 TO STA 333+28.06

PROPOSED LEGEND

1. HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 8"
2. HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 10"
3. HOT-MIX ASPHALT SHOULDERS, 10"
4. AGGREGATE SUBGRADE IMPROVEMENT 12"
5. RETAINING WALL (SEE STRUCTURAL SHEETS)
6. EXISTING GROUND
7. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
8. HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, 2" ON MOMENT SLAB
9. STEEL PLATE BEAM GUARDRAIL
10. HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 6"

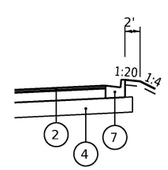
HOT-MIX ASPHALT MIXTURE REQUIREMENTS		
MIXTURE TYPE	AIR VOIDS @ Ndes	QUALITY MANAGEMENT PROGRAM (QMP)
PAVEMENT RECONSTRUCTION - IL 171 - HMA HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 10"		
POLYMERIZED HOT- MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 2" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 8"	3.5% @ 80 GYR 4% @ 70 GYR.	QC/QA QCP
SHOULDER RECONSTRUCTION - IL 171 - HOT-MIX ASPHALT SHOULDERS, 10"		
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, 2" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 8"	4% @ 70 GYR 4% @ 70 GYR	QC/QA QC/QA
PAVEMENT RECONSTRUCTION -95th STREET - HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 8"		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2" HOT-MIX ASPHALT BASE COURSE, IL-19.0, N70, 6"	4% @ 70 GYR 4% @ 70 GYR	QC/QA QC/QA
OVERLAY ON MOMENT SLAB		
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, 2"	4% @ 70 GYR	QC/QA
HMA STABILIZATION AT GUARDRAIL		
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 6"	4% @ 70 GYR	QC/QA
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PERFORMANCE (QCP); PAY FOR PERFORMANCE (PFP)		

NOTE 1: THE UNIT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.
NOTE 2: THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY RECLAIMED MATERIAL SPECIFICATIONS.
NOTE 3: THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED BEFORE AND AFTER THE TOP LIFT OF HMA BC IL-19.0, N70



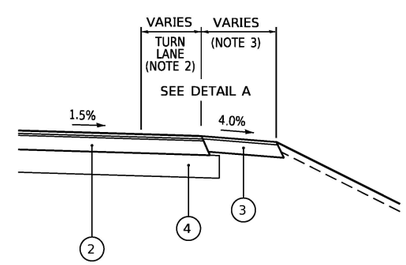
PROPOSED TYPICAL SECTION
IL 171 (ARCHER AVE)

STA 319+09.08 TO STA 320+55.56
STA 326+02.26 TO STA 333+27.82
SUPERELEVATION
NC 319+09.08 TO 319+72.68
RC 320+52.68
RC 326+05.14
NC 326+85.14 TO 333+27.82



DETAIL A

STA 326+02.26 TO 326+48.73

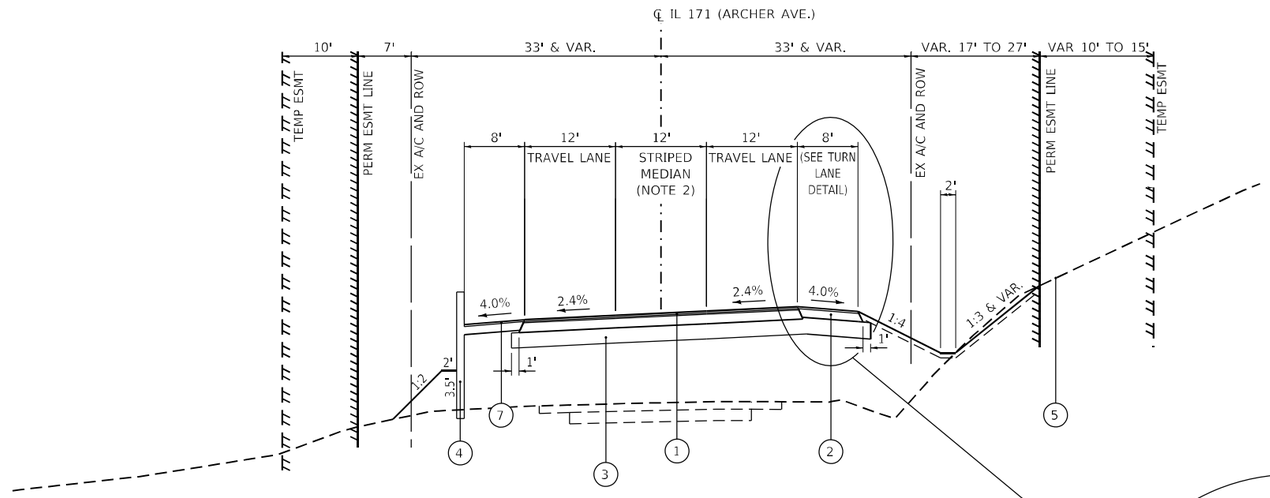


TURN LANE DETAIL

STA 319+69.08 TO STA 320+55.56

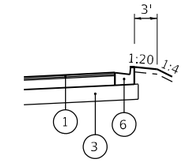
NOTES

1. VARIES FROM 0' @ STA. 319+09.08 TO 5' @ STA. 320+55.56
   VARIES FROM 12' @ STA. 330+28.05 TO 0' @ STA. 333+28.05
2. VARIES FROM 0' @ STA. 319+69.08 TO 4.1' @ STA. 320+55.56
3. VARIES FROM 8' @ STA. 319+69.08 TO 6.6' @ STA. 320+55.56
4. VARIES FROM 8' @ STA. 337+00 TO EXISTING SHOULDER @ STA. 338+50
5. VARIES FROM 8' @ STA. 338+35.46 TO EXISTING SHOULDER @ STA. 338+50
6. STARTS @ STA. 317+50 TO @ STA. 332+00

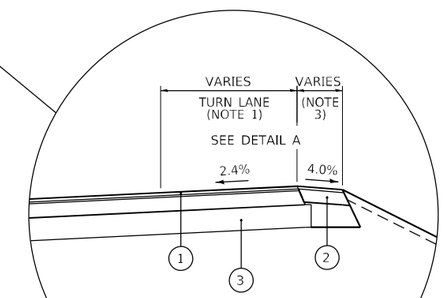


PROPOSED TYPICAL SECTION
IL 171 (ARCHER AVE)

STA 320+55.56 TO STA 326+02.26
SUPERELEVATION
FULL SE 2.4% 320+76.68 TO 325+81.14



DETAIL A
STA 324+34.70 TO 326+02.26



TURN LANE DETAIL
STA 319+69.32 TO STA 324+34.70

PROPOSED LEGEND

1. HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 10"
2. HOT-MIX ASPHALT SHOULDERS, 10"
3. AGGREGATE SUBGRADE IMPROVEMENT 12"
4. RETAINING WALL (SEE STRUCTURAL SHEETS)
5. EXISTING GROUND
6. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
7. HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, 2" ON MOMENT SLAB

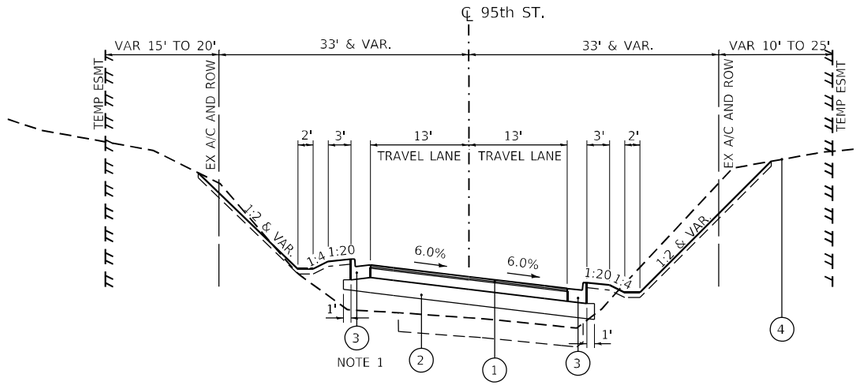
NOTES

1. VARIES FROM 4.1' @ STA. 320+55.56 TO 12' @ STA. 322+09.08
2. VARIES FROM 5.0' @ STA. 320+55.56 TO 12' @ STA. 322+09.08
3. VARIES FROM 6.6' @ STA. 320+55.56 TO 4' @ STA. 322+09.08

MODEL: $MODELNAME
FILE NAME: D:\60R94-sht-Typical Sections-4.dgn

AMES Engineering, Inc. CONSULTING ENGINEERS 6330 Belmont Road, Suite 48 Downers Grove, IL 60515	USER NAME = Srahman	DESIGNED - JAR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 171 (ARCHER AVE) & 95TH ST. PROPOSED TYPICAL SECTIONS
		DRAWN - MD/SR	REVISED -		
	PLOT SCALE = 5SCALES	CHECKED - AS	REVISED -		
	PLOT DATE = 5/23/2025	DATE - 03/18/2025	REVISED -		SCALE: NTS SHEET 4 OF 5 SHEETS STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	18
		CONTRACT NO. 60R94		
		ILLINOIS	FED. AID PROJECT	



PROPOSED TYPICAL SECTION
95TH STREET

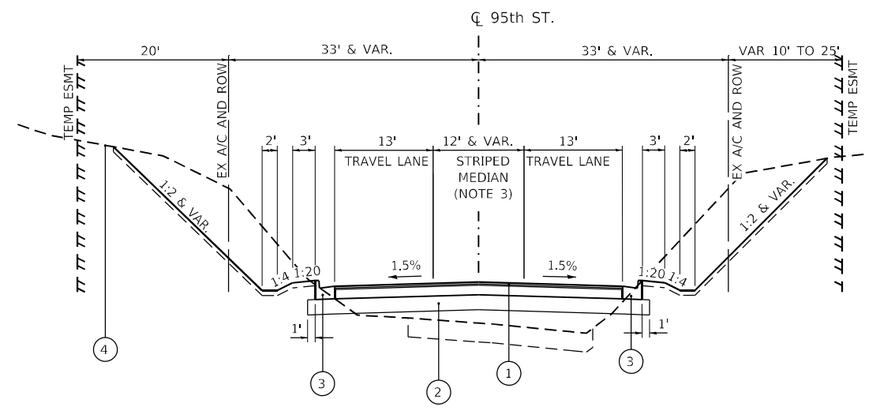
STA 191+00 TO STA 194+77
SUPERELEVATION
FULL SE 6.0% STA 193+37.85
RC 194+24.85

NOTES

1. REVERSE SLOPE CURB AND GUTTER
2. MEDIAN IS TRASITIONING BETWEEN STATION LIMITS
3. STRIPED MEDIAN VARIES FROM 0' @ STA. 194+77.75 TO 12' @ STA. 197+17.75

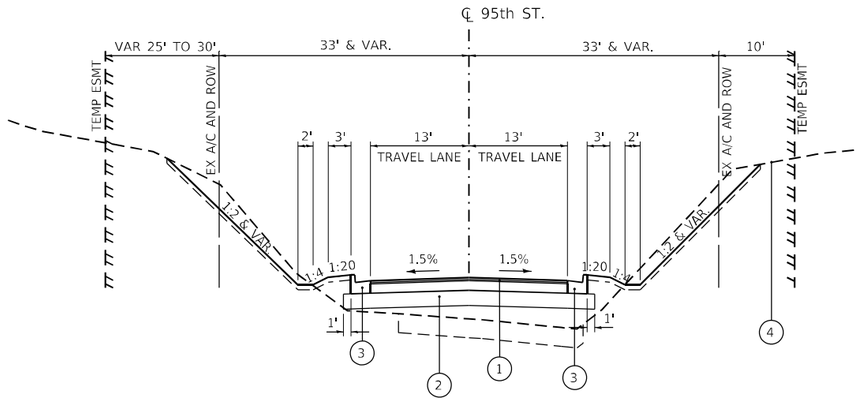
PROPOSED LEGEND

1. HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 8"
2. AGGREGATE SUBGRADE IMPROVEMENT 12"
3. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
4. EXISTING GROUND



PROPOSED TYPICAL SECTION
95TH STREET

STA 195+79 TO STA 200+00.88

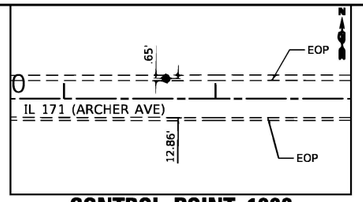


PROPOSED TYPICAL SECTION
95TH STREET

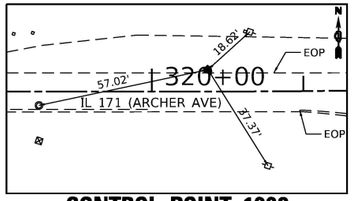
STA 194+77 TO STA 195+79
NOTE 2
SUPERELEVATION
NC 194+82.85 TO RC 194.77

MODEL: 9MODELNAMES
FILE NAME: D:\60R94-sht-Typical Sections-5.dgn

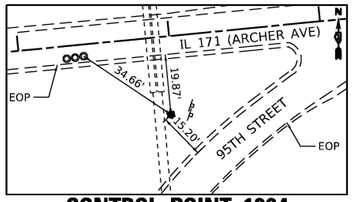
AMES Engineering, Inc. CONSULTING ENGINEERS 6330 Belmont Road, Suite 4B Downers Grove, IL 60515	USER NAME = Srahman	DESIGNED - JAR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 171 (ARCHER AVE) & 95TH ST. PROPOSED TYPICAL SECTIONS	F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
		DRAWN - MD/SR	REVISED -			3565	U-1-N	COOK	135 / 19
	PLOT SCALE = 5SCALES	CHECKED - AS	REVISED -					CONTRACT NO. 60R94	
	PLOT DATE = 5/23/2025	DATE - 03/18/2025	REVISED -		SCALE: NTS / SHEET 5 OF 5 SHEETS / STA. TO STA.		ILLINOIS	FED. AID PROJECT	



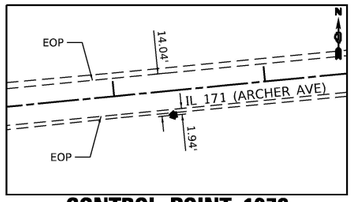
CONTROL POINT 1008
MAG NAIL SET
STA. 311+67.18, 13.44' LT
N: 1,839,360.672
E: 1,101,911.829
ELEV: 607.90



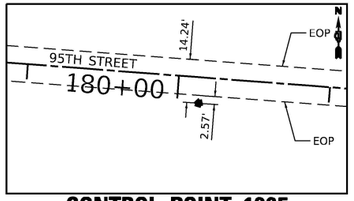
CONTROL POINT 1002
MAG NAIL SET
STA. 320+37.06, 14.40' LT
N: 1,839,635.018
E: 1,102,737.311
ELEV: 612.59



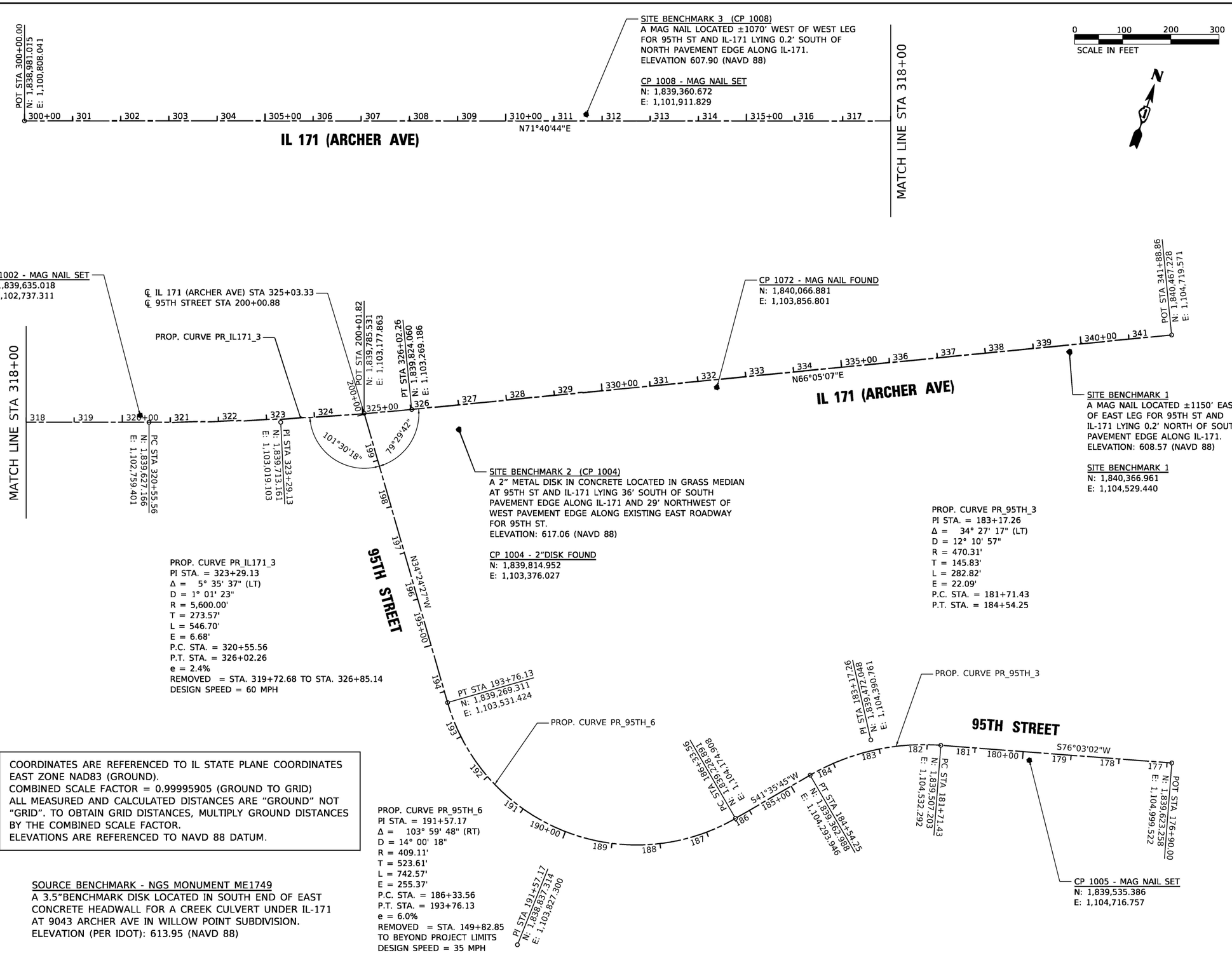
CONTROL POINT 1004
MAG NAIL SET
STA. 326+96.24, 51.64' RT
N: 1,839,814.952
E: 1,103,376.027
ELEV: 617.06



CONTROL POINT 1072
MAG NAIL
STA. 332+37.86, 16.23' RT
N: 1,840,066.881
E: 1,103,856.801
ELEV: 609.67



CONTROL POINT 1005
MAG NAIL SET
STA. 179+85.61, 17.12' LT
N: 1,839,535.386
E: 1,104,716.757



COORDINATES ARE REFERENCED TO IL STATE PLANE COORDINATES EAST ZONE NAD83 (GROUND).
COMBINED SCALE FACTOR = 0.99995905 (GROUND TO GRID)
ALL MEASURED AND CALCULATED DISTANCES ARE "GROUND" NOT "GRID". TO OBTAIN GRID DISTANCES, MULTIPLY GROUND DISTANCES BY THE COMBINED SCALE FACTOR.
ELEVATIONS ARE REFERENCED TO NAVD 88 DATUM.

SOURCE BENCHMARK - NGS MONUMENT ME1749
A 3.5"BENCHMARK DISK LOCATED IN SOUTH END OF EAST CONCRETE HEADWALL FOR A CREEK CULVERT UNDER IL-171 AT 9043 ARCHER AVE IN WILLOW POINT SUBDIVISION.
ELEVATION (PER IDOT): 613.95 (NAVD 88)

HRG PROJECT NO.: 200460
HRG PROJ. CONTACT:
FILE NAME: DI60R94_ctbbld.dgn
PLOT DRIVER: IL_pdf_bw.pltcfg
PEN TABLE: plotlabel.tbl

HRGreen.com
Illinois Professional Design Firm # 184-001322
HRGreen.

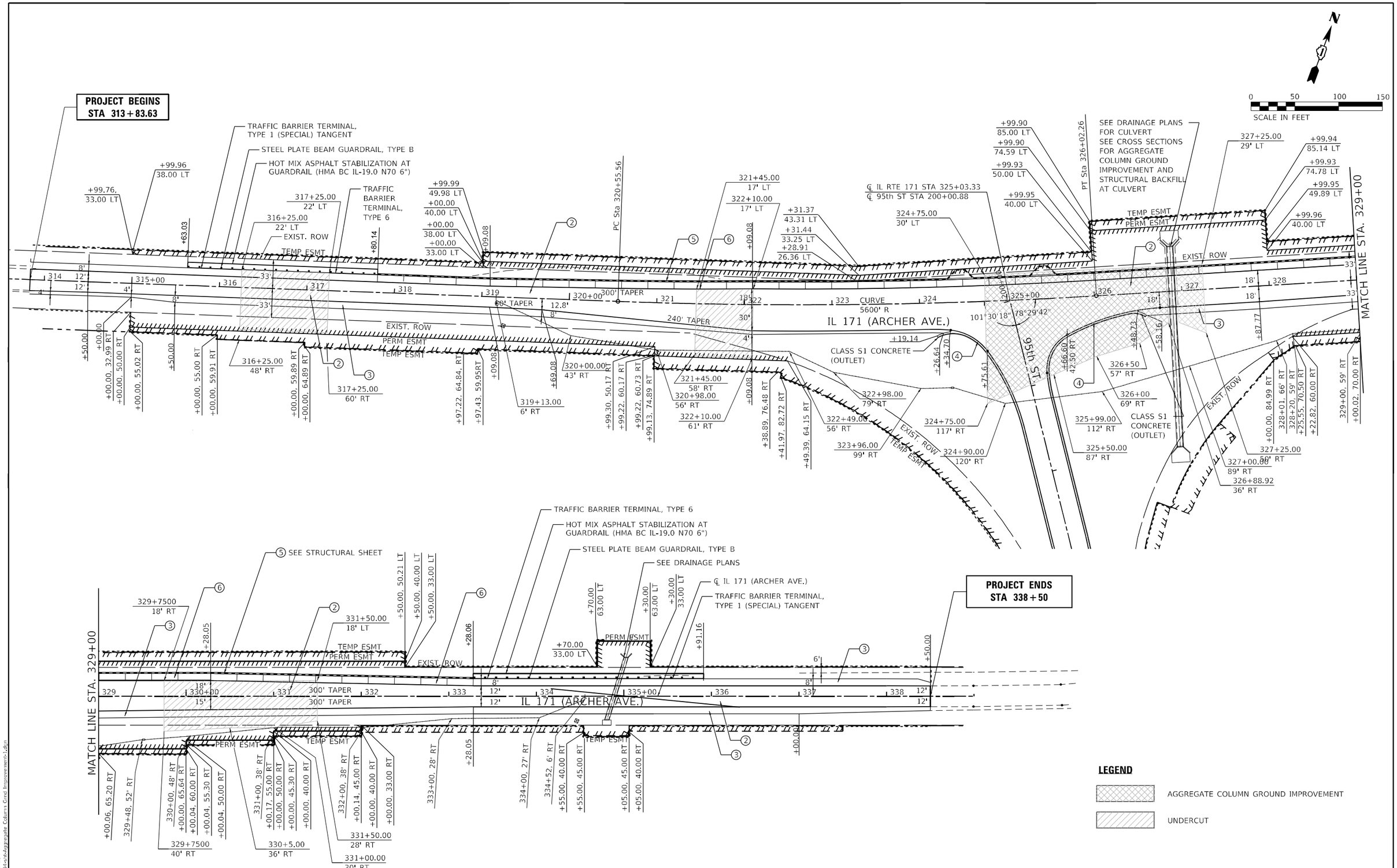
USER NAME = amiller	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 200.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 2/19/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 171 (ARCHER AVE) & 95TH STREET
ALIGNMENT, TIES & BENCHMARKS

SCALE: 1" = 100' | SHEET 1 OF 1 SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	20
		CONTRACT NO. 60R94		
		ILLINOIS	FED. AID PROJECT	



PLAN

SURVEYED	
PLOTTED	
ALIGNMENT CHECKED	
R/ OW CHECKED	
CADD FILE NAME	
NOTE BOOK NO.	

DATE	BY

PROFILE

SURVEYED	
PLOTTED	
GRADES CHECKED	
B.M. NOTED	
STRUCTURE NOTAT'NS CHKD	
NOTE BOOK NO.	

DATE	BY

MODEL: $MODELNAME$
FILE NAME: D:\60R94\sht-Aggregate Column Grnd Improvement-1.dgn

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60515

USER NAME = Srahman	DESIGNED - JAR	REVISED -
	DRAWN - MD/SR	REVISED -
PLOT SCALE = $SCALE$	CHECKED - AS	REVISED -
PLOT DATE = 5/23/2025	DATE - 03/18/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

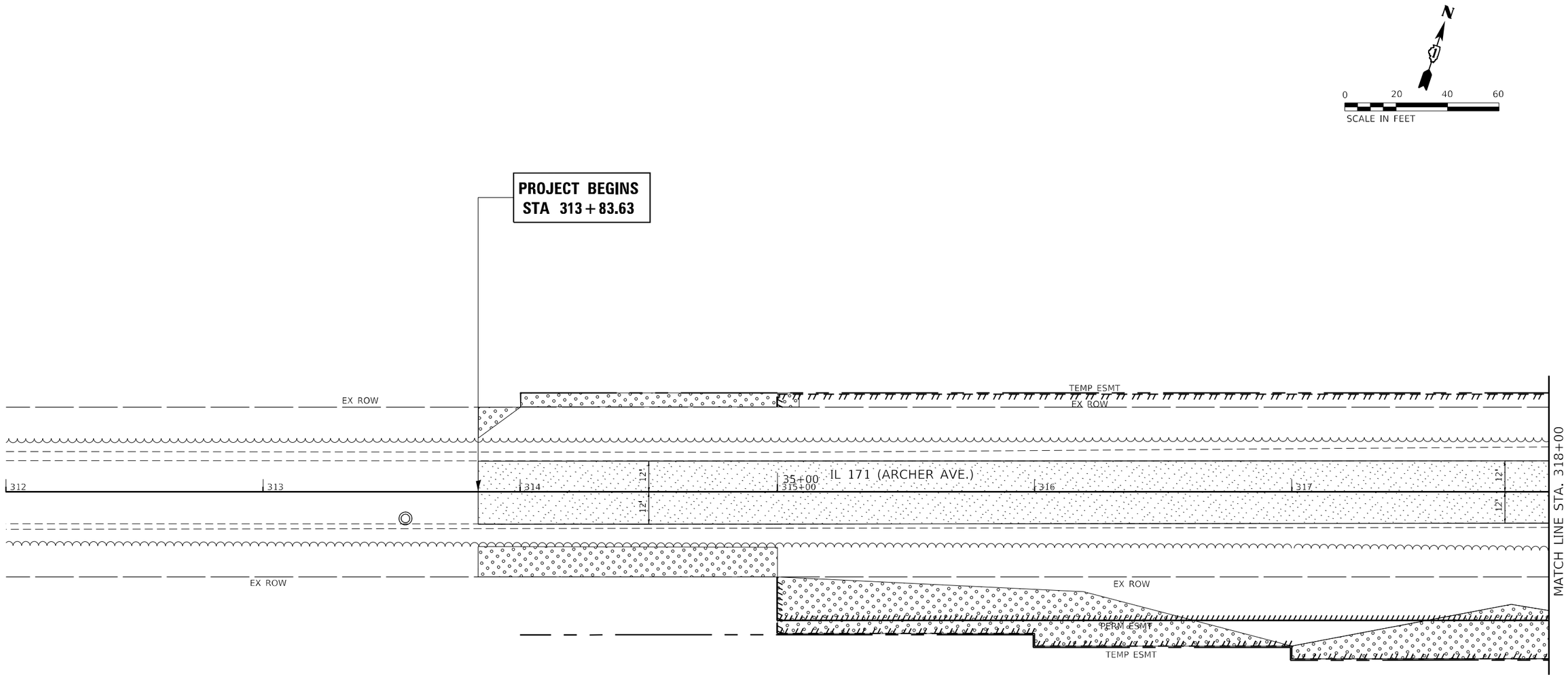
IL 171 (ARCHER AVE) & 95TH ST.
AGGREGATE COLUMN GROUND IMPROVEMENT

SCALE: 1" = 50' | SHEET 1 OF 1 SHEETS | STA. 313+83.63 TO STA. 329+00

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	31

CONTRACT NO. 60R94

ILLINOIS | FED. AID PROJECT



NOTE: EXISTING AND PROPOSED ALIGNMENTS ARE DISPLAYED FOR CLARITY

REMOVAL LEGEND

- PAVEMENT REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL
- WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT MOVING (SPECIAL)

MODEL: $MODELNAME$
FILE NAME: D160R94-sht-rem-1.dgn

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = Srahman	DESIGNED - JAR	REVISED -	
	DRAWN - MD/SR	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - AS	REVISED -	
PLOT DATE = 5/23/2025	DATE - 03/18/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

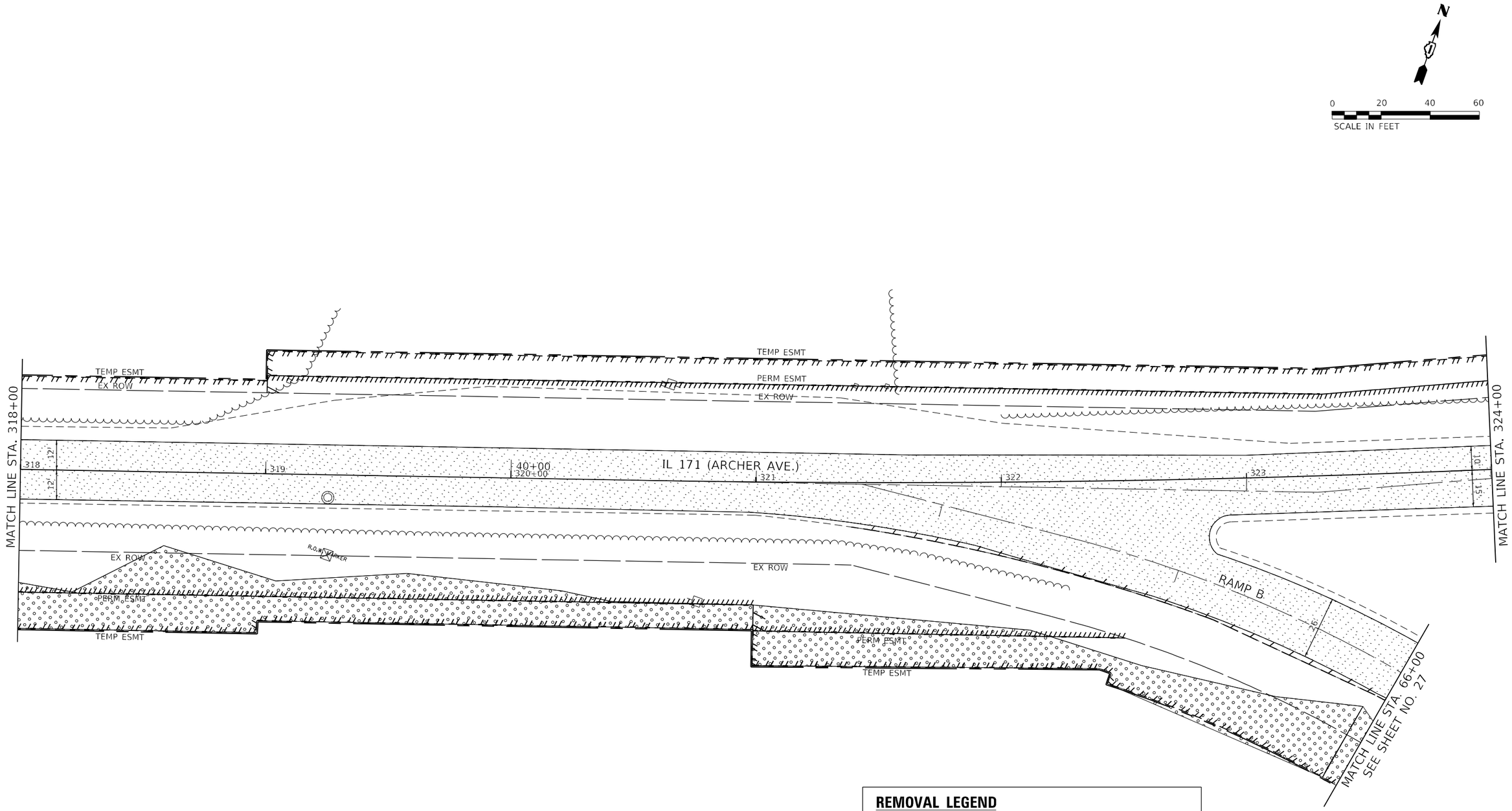
IL 171 (ARCHER AVE) & 95TH ST.
REMOVAL PLANS

SCALE: 1"=20' | SHEET 1 OF 7 SHEETS | STA. 313+83.63 TO STA. 318+00

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	21

CONTRACT NO. 60R94

ILLINOIS | FED. AID PROJECT



NOTE: EXISTING AND PROPOSED ALIGNMENTS ARE DISPLAYED FOR CLARITY

REMOVAL LEGEND

- PAVEMENT REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL
- WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT MOVING (SPECIAL)

MODEL: $MODELNAME$
FILE NAME: D160R94-sht-rem-2.dgn

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = Srahman	DESIGNED - JAR	REVISED -
	DRAWN - MD/SR	REVISED -
PLOT SCALE = $SCALE$	CHECKED - AS	REVISED -
PLOT DATE = 5/23/2025	DATE - 03/18/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

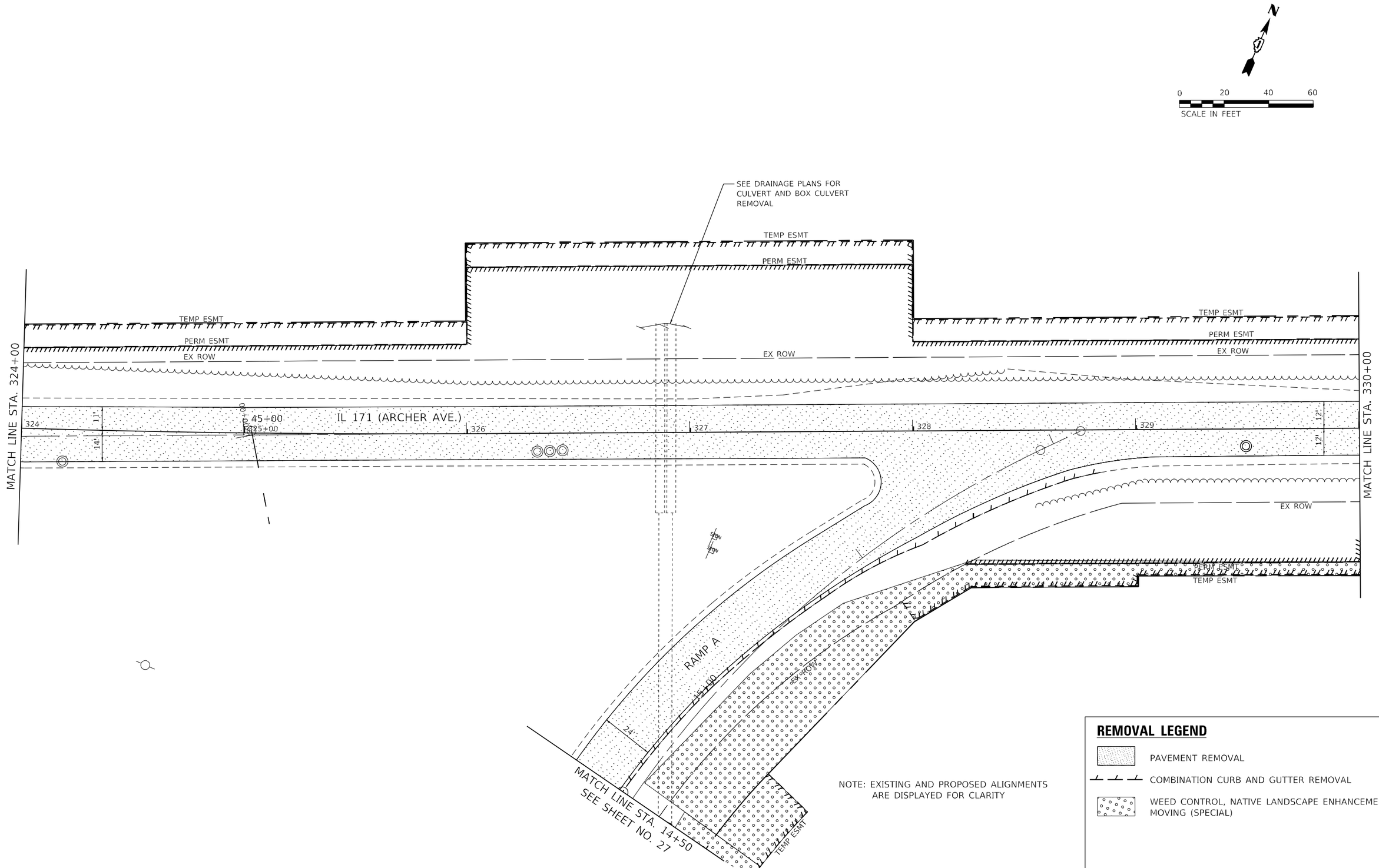
IL 171 (ARCHER AVE) & 95TH ST.
REMOVAL PLANS

SCALE: 1"=20' | SHEET 2 OF 7 SHEETS | STA. 318+00 TO STA. 324+00

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	22

CONTRACT NO. 60R94

ILLINOIS | FED. AID PROJECT



NOTE: EXISTING AND PROPOSED ALIGNMENTS ARE DISPLAYED FOR CLARITY

REMOVAL LEGEND

- PAVEMENT REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL
- WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT MOVING (SPECIAL)

MODEL: $MODELNAME$
FILE NAME: D160494-sht-rem-3.dgn

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

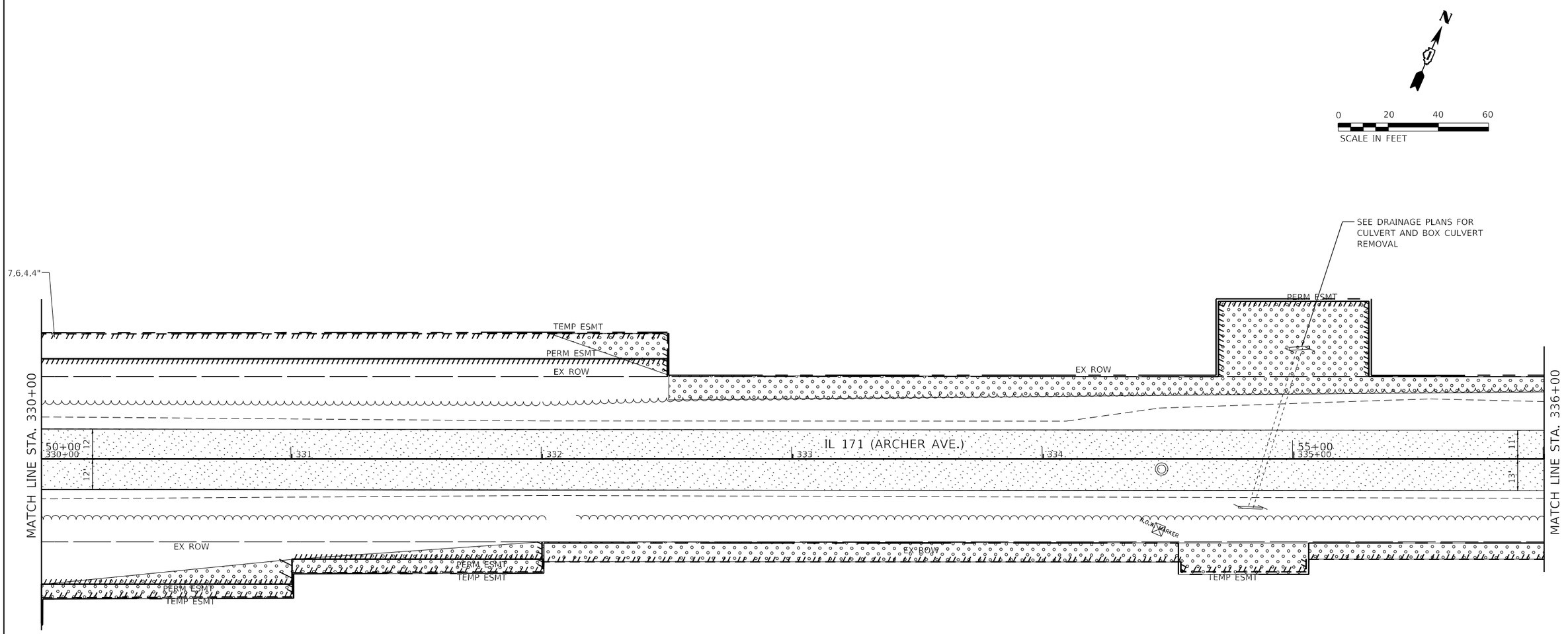
USER NAME = Srahman	DESIGNED - JAR	REVISED -	
	DRAWN - MD/SR	REVISED -	
PLOT SCALE = $SCALES	CHECKED - AS	REVISED -	
PLOT DATE = 5/23/2025	DATE - 03/18/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 171 (ARCHER AVE) & 95TH ST.
REMOVAL PLANS

SCALE: 1"=20' | SHEET 3 OF 7 SHEETS | STA. 324+00 TO STA. 330+00

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	23
		CONTRACT NO. 60R94		
	ILLINOIS	FED. AID PROJECT		



NOTE: EXISTING AND PROPOSED ALIGNMENTS ARE DISPLAYED FOR CLARITY

REMOVAL LEGEND

- PAVEMENT REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL
- WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT MOVING (SPECIAL)

MODEL: $MODELNAME$
FILE NAME: D:\60R94-sht-rem-4.dgn

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = Srahman	DESIGNED - JAR	REVISED -	
	DRAWN - MD/SR	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - AS	REVISED -	
PLOT DATE = 5/23/2025	DATE - 03/18/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

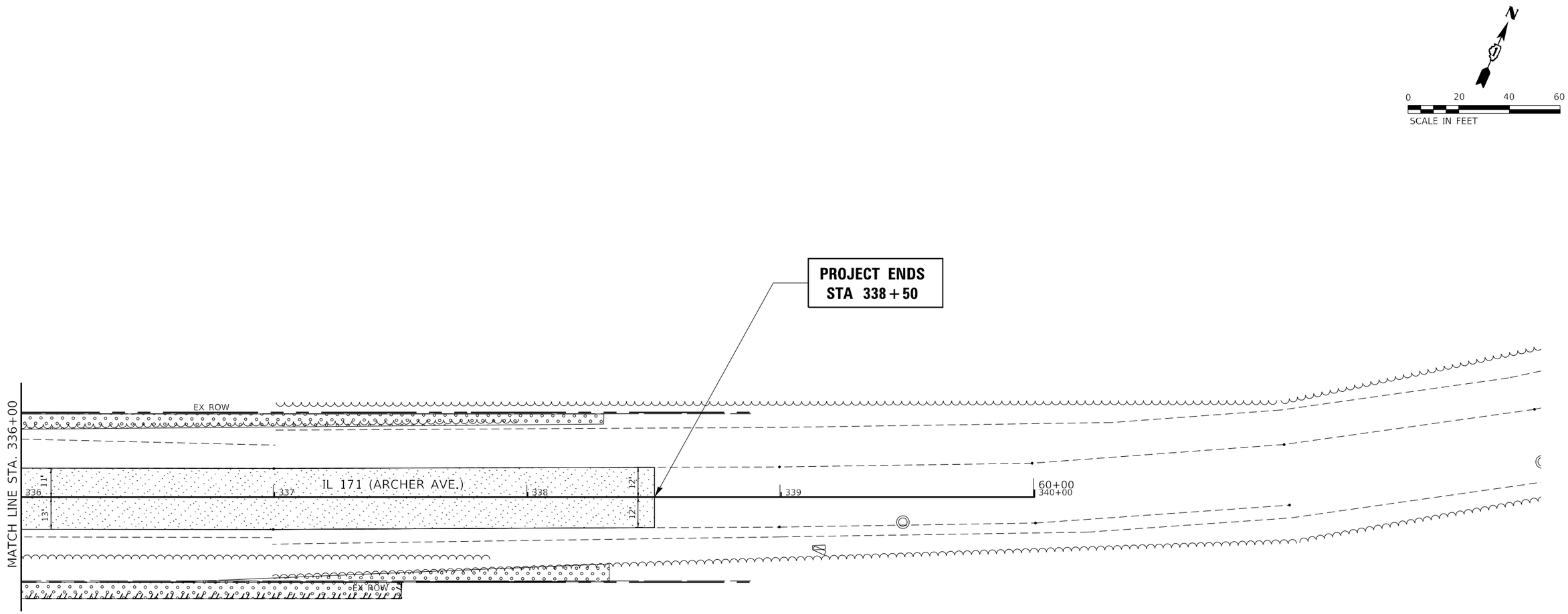
IL 171 (ARCHER AVE) & 95TH ST.
REMOVAL PLANS

SCALE: 1"=20' | SHEET 4 OF 7 SHEETS | STA. 330+00 TO STA. 336+00

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	24

CONTRACT NO. 60R94

ILLINOIS | FED. AID PROJECT



NOTE: EXISTING AND PROPOSED ALIGNMENTS ARE DISPLAYED FOR CLARITY

REMOVAL LEGEND

- PAVEMENT REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL
- WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT MOVING (SPECIAL)

MODEL: $MODELNAME$
FILE NAME: D160R94-sht-rem-5.dgn

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = Srahman	DESIGNED - JAR	REVISED -
	DRAWN - MD/SR	REVISED -
PLOT SCALE = $SCALE$	CHECKED - AS	REVISED -
PLOT DATE = 5/23/2025	DATE - 03/18/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

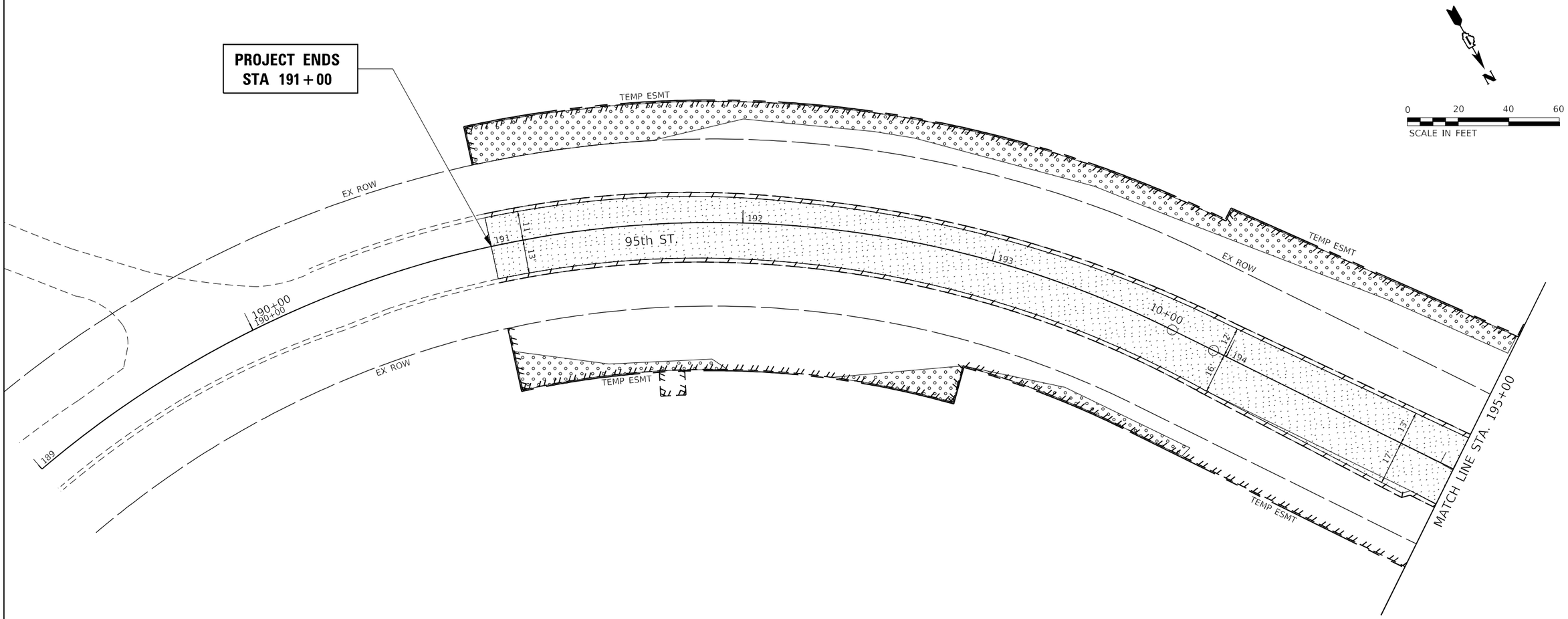
IL 171 (ARCHER AVE) & 95TH ST.
REMOVAL PLANS

SCALE: 1"=20' | SHEET 5 OF 7 SHEETS | STA. 336+00 TO STA. 338+50

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	25

CONTRACT NO. 60R94

ILLINOIS | FED. AID PROJECT



NOTE: EXISTING AND PROPOSED ALIGNMENTS ARE DISPLAYED FOR CLARITY

REMOVAL LEGEND

PAVEMENT REMOVAL

COMBINATION CURB AND GUTTER REMOVAL

WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT MOVING (SPECIAL)

MODEL: SMODELNAMES
FILE NAME: D160R94-sht-rem-6.dgn

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

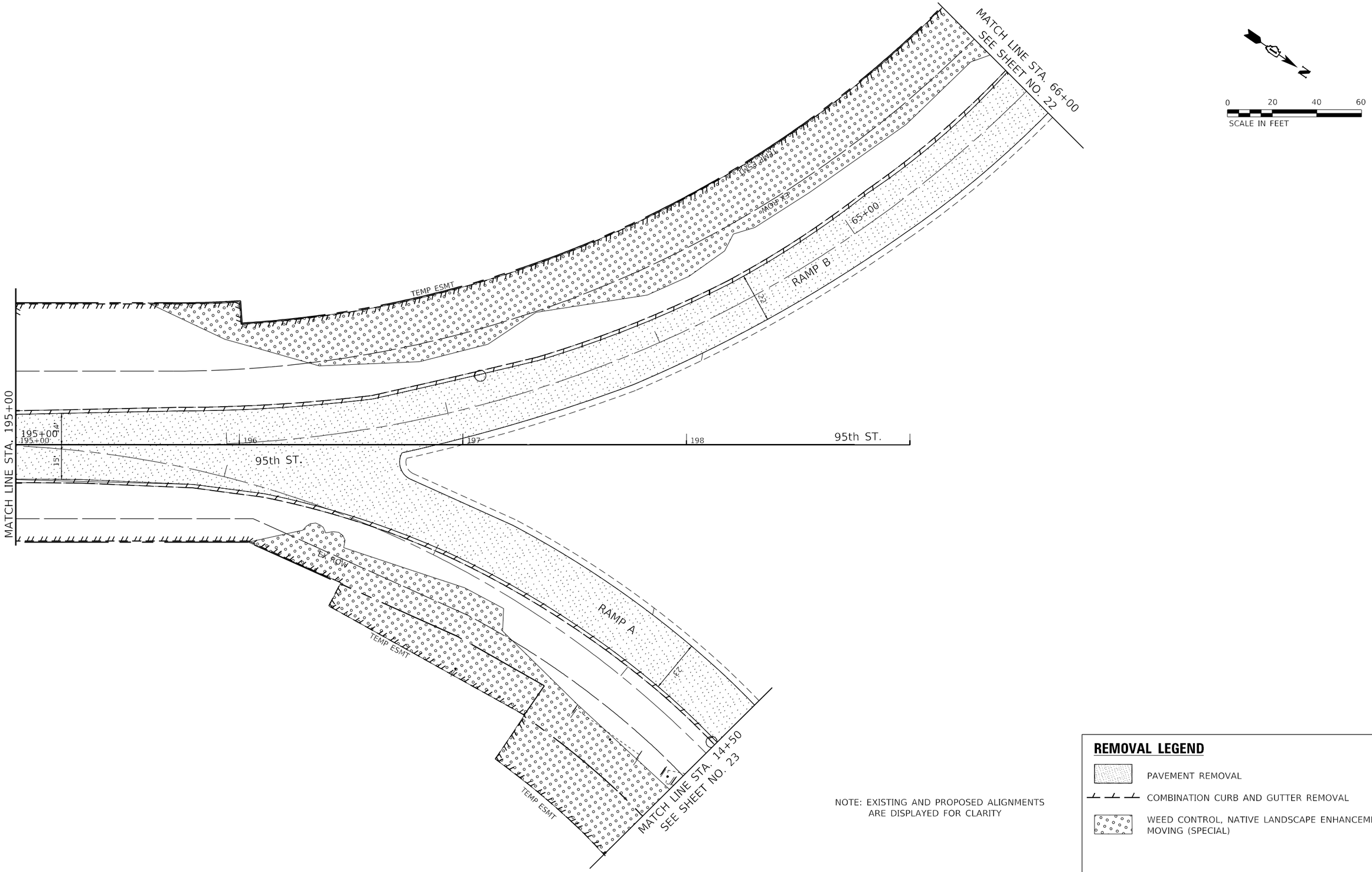
USER NAME = Srahman	DESIGNED - JAR	REVISED -	
	DRAWN - MD/SR	REVISED -	
PLOT SCALE = 5SCALES	CHECKED - AS	REVISED -	
PLOT DATE = 5/23/2025	DATE - 03/18/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 171 (ARCHER AVE) & 95TH ST.
REMOVAL PLANS

SCALE: 1"=20' | SHEET 6 OF 7 SHEETS | STA. 191+00 TO STA. 195+00

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	26
		CONTRACT NO. 60R94		
		ILLINOIS	FED. AID PROJECT	



NOTE: EXISTING AND PROPOSED ALIGNMENTS ARE DISPLAYED FOR CLARITY

REMOVAL LEGEND

- PAVEMENT REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL
- WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT MOVING (SPECIAL)

MODEL: $MODELNAME$
FILE NAME: D160R94-sht-rem-7.dgn

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = Srahman	DESIGNED - JAR	REVISED -	
	DRAWN - MD/SR	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - AS	REVISED -	
PLOT DATE = 5/23/2025	DATE - 03/18/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

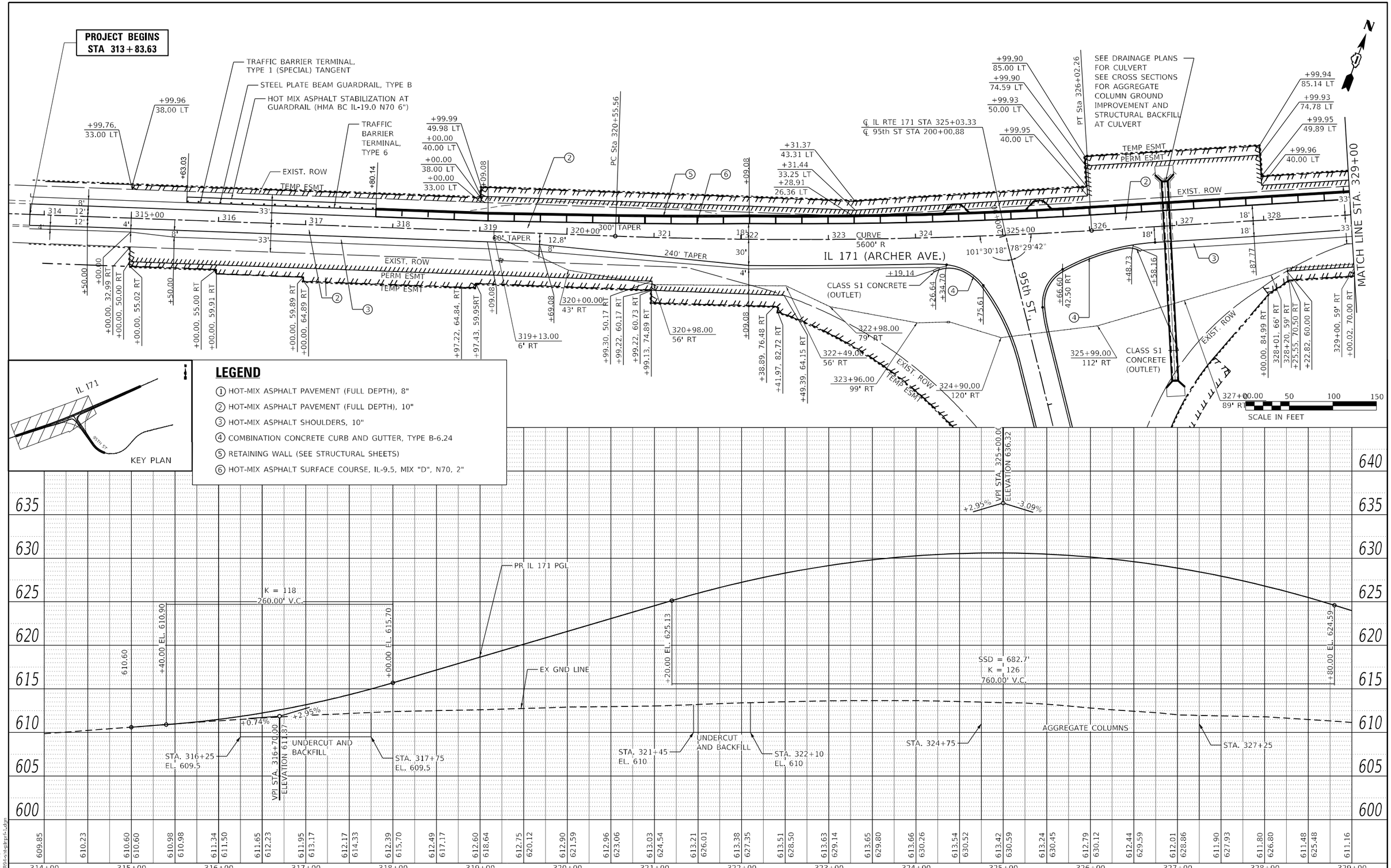
IL 171 (ARCHER AVE) & 95TH ST.
REMOVAL PLANS

SCALE: 1"=20' | SHEET 7 OF 7 SHEETS | STA. 195+00 TO STA. 200+01.83

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	27

CONTRACT NO. 60R94

ILLINOIS | FED. AID PROJECT



PLAN	SURVEYED	PLOTTED	ALIGNMENT CHECKED	R.O.W. CHECKED	CADD FILE NAME	NOTE BOOK NO.	BY	DATE

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

MODEL: $MODEL$NAME$
FILE NAME: D:\60R94-sht-pltprf-t.dgn

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60515

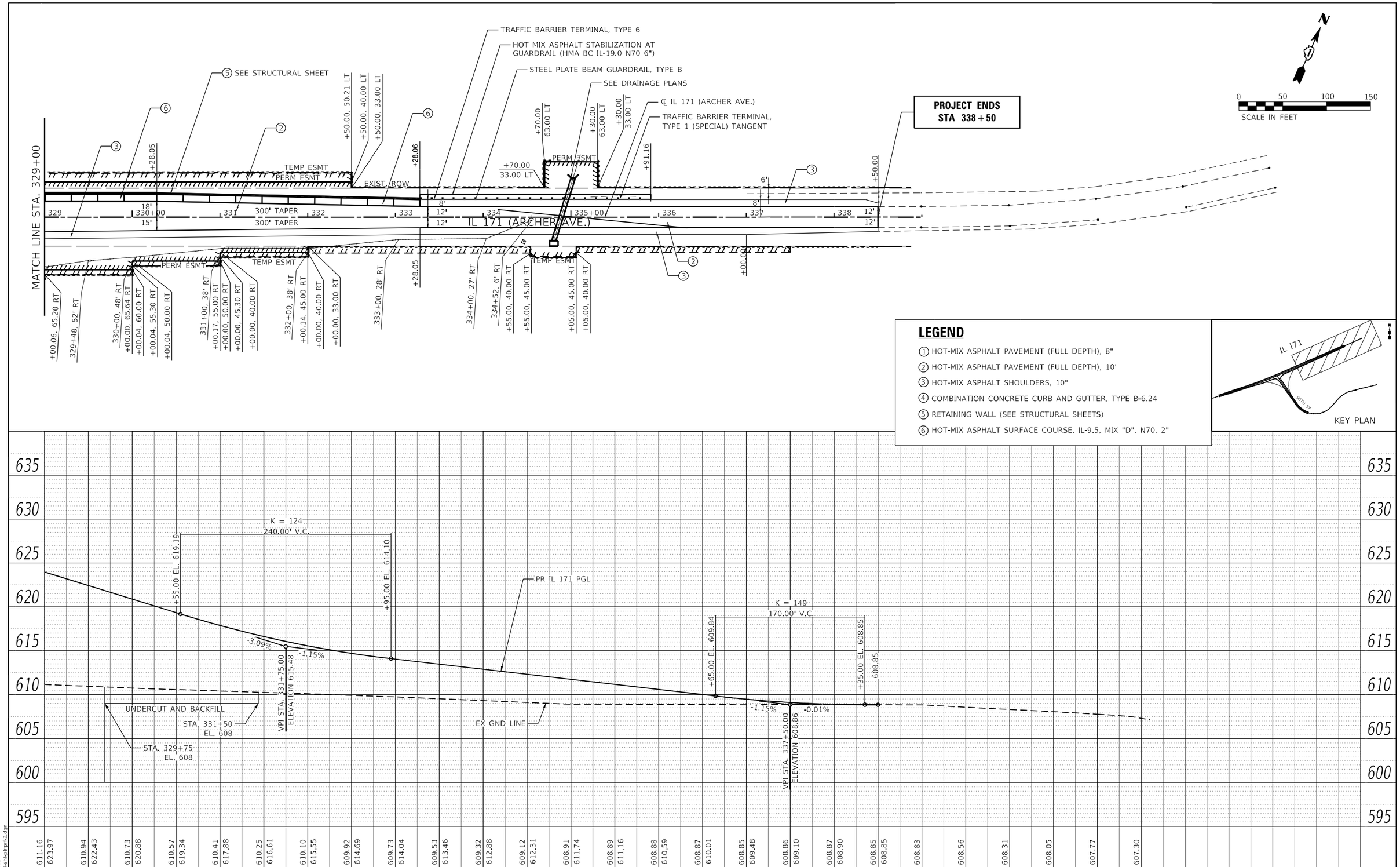
USER NAME = Srahman	DESIGNED - JAR	REVISED -
	DRAWN - MD/SR	REVISED -
PLOT SCALE = $SCALE$	CHECKED - AS	REVISED -
PLOT DATE = 5/23/2025	DATE - 03/18/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 171 (ARCHER AVE) & 95TH ST.
PROPOSED PLAN AND PROFILE

SCALE: 1" = 50' | SHEET 1 OF 3 SHEETS | STA. 313+83.63 TO STA. 329+00

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	28
		CONTRACT NO. 60R94		
		ILLINOIS	FED. AID PROJECT	



PLAN		BY	DATE
SURVEYED			
PLOTTED			
ALIGNMENT CHECKED			
R/W CHECKED			
CADD FILE NAME			
NOTE BOOK			
NO.			

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

MODEL: $MODEL$NAME
FILE NAME: D:\60R94-sa4\plan\r5-2.dgn

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60515

USER NAME = Srahman	DESIGNED - JAR	REVISED -
	DRAWN - MD/SR	REVISED -
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PLOT DATE = 5/23/2025	DATE - 03/18/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

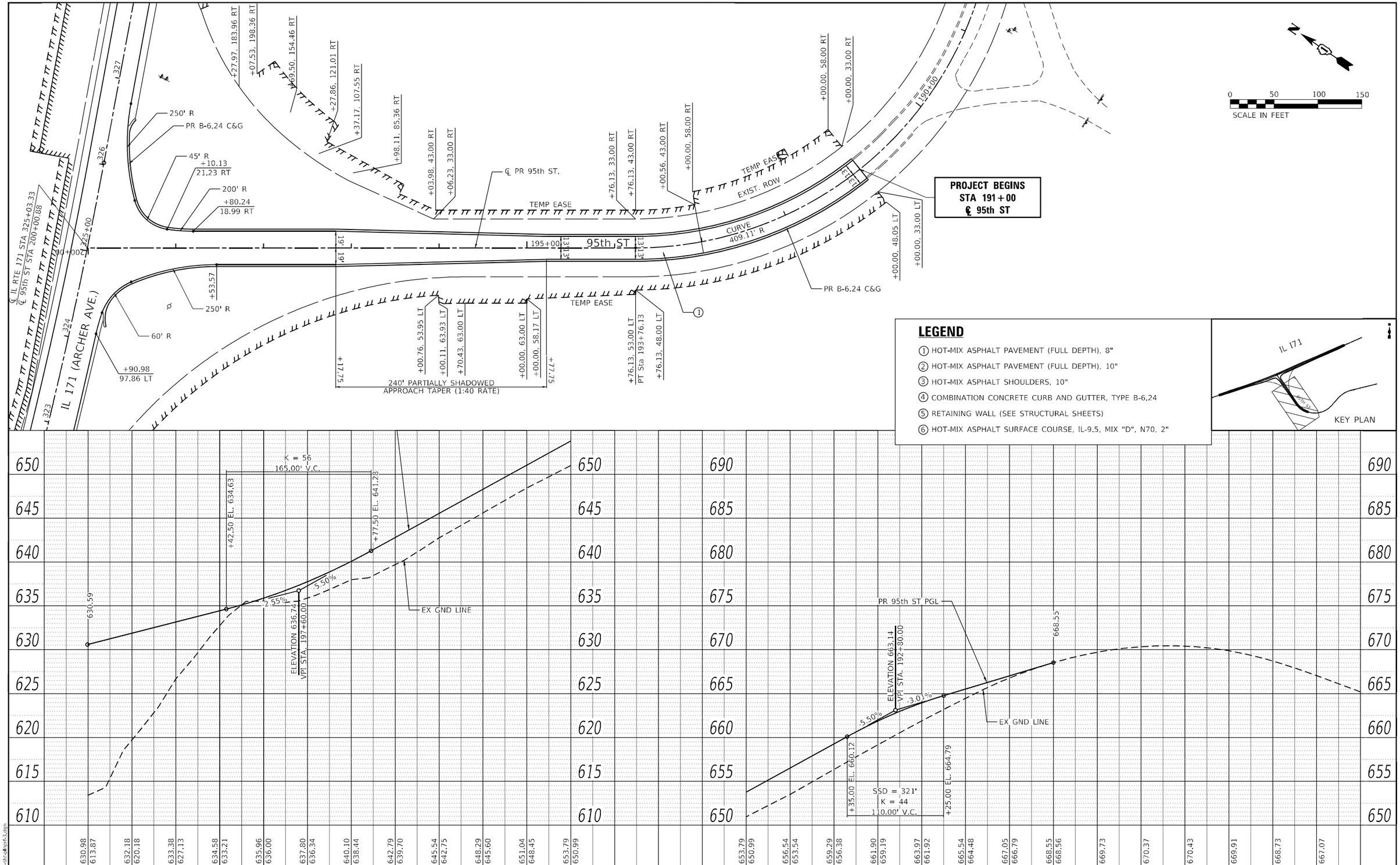
IL 171 (ARCHER AVE) & 95TH ST.
PROPOSED PLAN AND PROFILE

SCALE: 1" = 50' | SHEET 2 OF 3 SHEETS | STA. 329+00 TO STA. 338+50

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	29

CONTRACT NO. 60R94

ILLINOIS | FED. AID PROJECT



LEGEND

1. HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 8"
2. HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 10"
3. HOT-MIX ASPHALT SHOULDERS, 10"
4. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
5. RETAINING WALL (SEE STRUCTURAL SHEETS)
6. HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, 2"

MODEL: SMODEL-NAMES
FILE NAME: D:\SBR\46-Brsd-Alignt-3.dgn

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60515

USER NAME = Srahman	DESIGNED - JAR	REVISED -	
	DRAWN - MD/SR	REVISED -	
PLOT SCALE = 5SCALES	CHECKED - AS	REVISED -	
PLOT DATE = 5/23/2025	DATE - 03/18/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 171 (ARCHER AVE) & 95TH ST.
PROPOSED PLAN AND PROFILE

SCALE: 1" = 50' | SHEET 3 OF 3 SHEETS | STA. | TO STA.

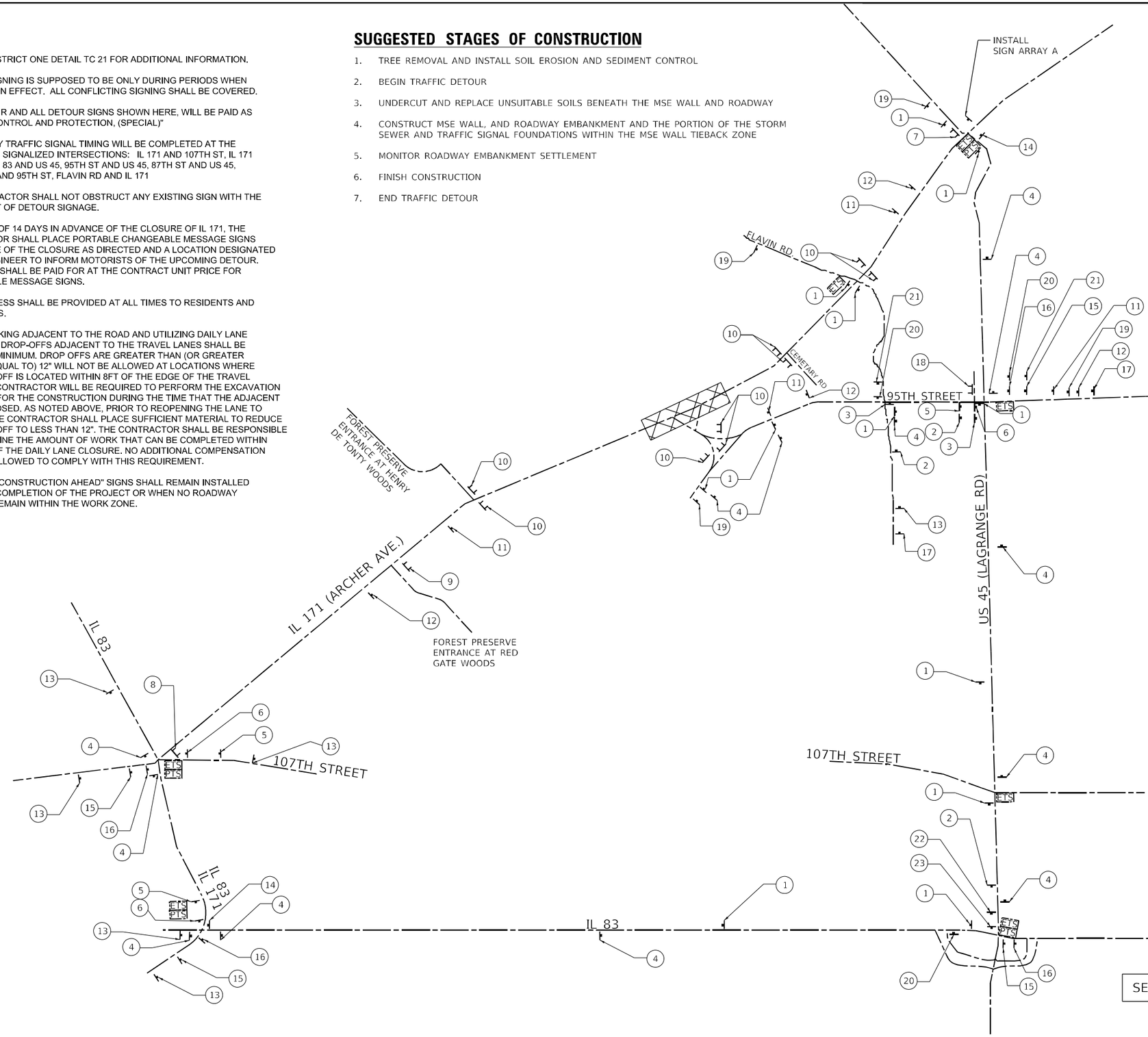
F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	30
		CONTRACT NO. 60R94		
		ILLINOIS	FED. AID PROJECT	

NOTES

1. FOLLOW DISTRICT ONE DETAIL TC 21 FOR ADDITIONAL INFORMATION.
2. DETOUR SIGNING IS SUPPOSED TO BE ONLY DURING PERIODS WHEN DETOUR IS IN EFFECT. ALL CONFLICTING SIGNING SHALL BE COVERED.
3. THIS DETOUR AND ALL DETOUR SIGNS SHOWN HERE, WILL BE PAID AS "TRAFFIC CONTROL AND PROTECTION, (SPECIAL)"
4. TEMPORARY TRAFFIC SIGNAL TIMING WILL BE COMPLETED AT THE FOLLOWING SIGNALIZED INTERSECTIONS: IL 171 AND 107TH ST, IL 171 AND IL 83, IL 83 AND US 45, 95TH ST AND US 45, 87TH ST AND US 45, FLAVIN RD AND 95TH ST, FLAVIN RD AND IL 171
5. THE CONTRACTOR SHALL NOT OBSTRUCT ANY EXISTING SIGN WITH THE PLACEMENT OF DETOUR SIGNAGE.
6. A MINIMUM OF 14 DAYS IN ADVANCE OF THE CLOSURE OF IL 171, THE CONTRACTOR SHALL PLACE PORTABLE CHANGEABLE MESSAGE SIGNS IN ADVANCE OF THE CLOSURE AS DIRECTED AND A LOCATION DESIGNATED BY THE ENGINEER TO INFORM MOTORISTS OF THE UPCOMING DETOUR. THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR CHANGEABLE MESSAGE SIGNS.
7. LOCAL ACCESS SHALL BE PROVIDED AT ALL TIMES TO RESIDENTS AND BUSINESSES.
8. WHEN WORKING ADJACENT TO THE ROAD AND UTILIZING DAILY LANE CLOSURES, DROP-OFFS ADJACENT TO THE TRAVEL LANES SHALL BE KEPT TO A MINIMUM. DROP OFFS ARE GREATER THAN (OR GREATER THAN OR EQUAL TO) 12" WILL NOT BE ALLOWED AT LOCATIONS WHERE THE DROP-OFF IS LOCATED WITHIN 8FT OF THE EDGE OF THE TRAVEL LANE. THE CONTRACTOR WILL BE REQUIRED TO PERFORM THE EXCAVATION REQUIRED FOR THE CONSTRUCTION DURING THE TIME THAT THE ADJACENT LANE IS CLOSED. AS NOTED ABOVE, PRIOR TO REOPENING THE LANE TO TRAFFIC THE CONTRACTOR SHALL PLACE SUFFICIENT MATERIAL TO REDUCE THE DROP-OFF TO LESS THAN 12". THE CONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE THE AMOUNT OF WORK THAT CAN BE COMPLETED WITHIN THE TIME OF THE DAILY LANE CLOSURE. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED TO COMPLY WITH THIS REQUIREMENT.
9. THE "ROAD CONSTRUCTION AHEAD" SIGNS SHALL REMAIN INSTALLED UNTIL THE COMPLETION OF THE PROJECT OR WHEN NO ROADWAY HAZARDS REMAIN WITHIN THE WORK ZONE.

SUGGESTED STAGES OF CONSTRUCTION

1. TREE REMOVAL AND INSTALL SOIL EROSION AND SEDIMENT CONTROL
2. BEGIN TRAFFIC DETOUR
3. UNDERCUT AND REPLACE UNSUITABLE SOILS BENEATH THE MSE WALL AND ROADWAY
4. CONSTRUCT MSE WALL, AND ROADWAY EMBANKMENT AND THE PORTION OF THE STORM SEWER AND TRAFFIC SIGNAL FOUNDATIONS WITHIN THE MSE WALL TIEBACK ZONE
5. MONITOR ROADWAY EMBANKMENT SETTLEMENT
6. FINISH CONSTRUCTION
7. END TRAFFIC DETOUR



N

DETOUR LEGEND

	ROAD CLOSED
ETS	EX TRAFFIC SIGNAL
PTS	PR TEMPORARY TRAFFIC SIGNAL TIMING

SEE NEXT SHEET FOR DETOUR SIGNING LEGEND

MODEL: $MODELNAME$
FILE NAME: D160R94-sht-Detour Plan-1.dgn

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = Srahman	DESIGNED - JAR	REVISED -	
	DRAWN - MD/SR	REVISED -	
PLOT SCALE = $SCALES	CHECKED - AS	REVISED -	
PLOT DATE = 5/23/2025	DATE - 03/18/2025	REVISED -	

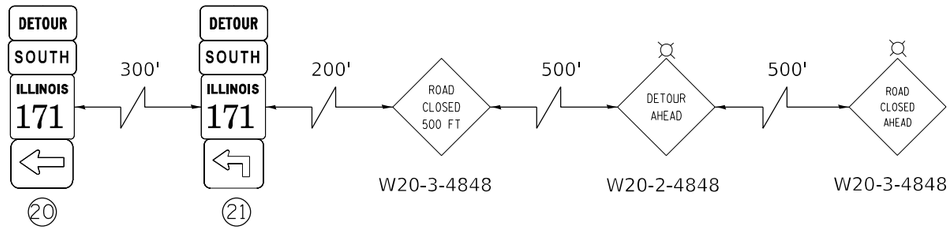
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

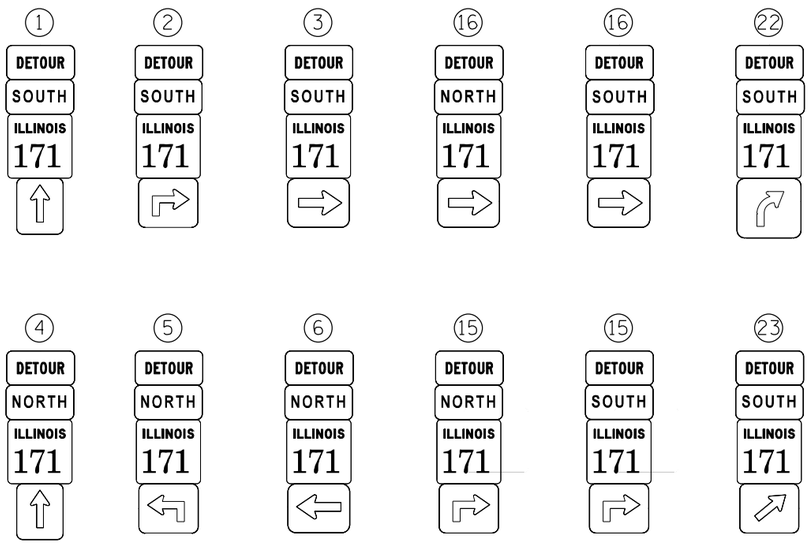
IL 171 (ARCHER AVE) & 95TH ST.
DETOUR PLAN – FOR IL 171

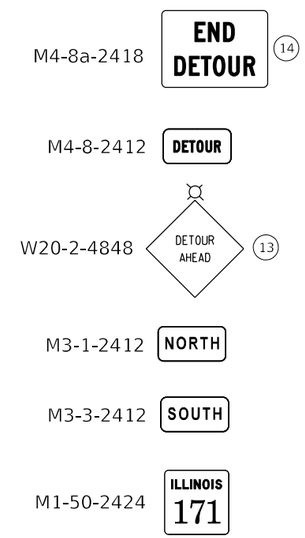
SCALE: N.T.S. | SHEET 1 OF 2 SHEETS | STA. | TO STA.

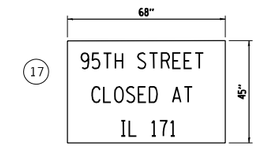
F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	32
		CONTRACT NO. 60R94		
		ILLINOIS	FED. AID PROJECT	

SIGN ARRAY A:





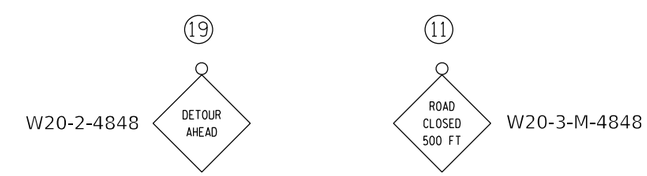


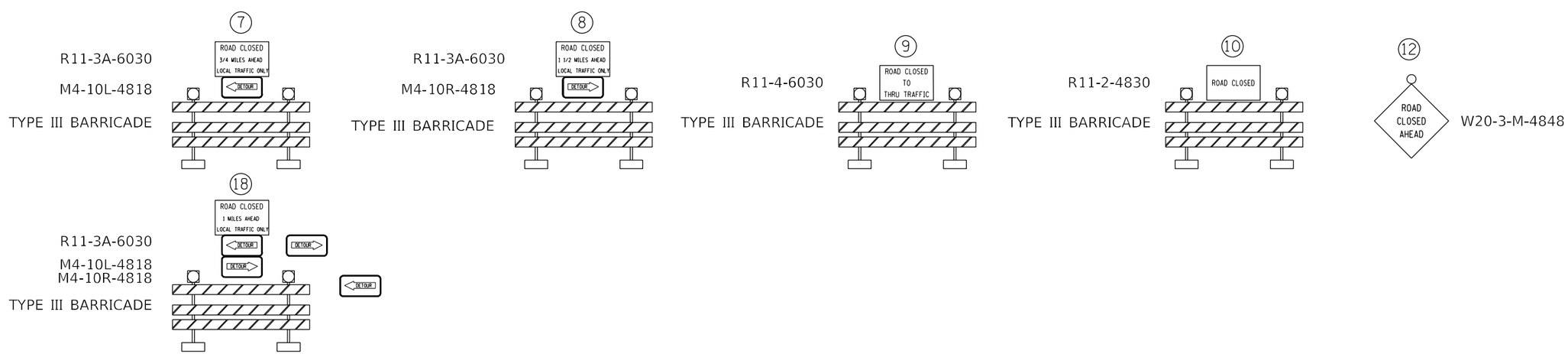


PAID FOR AS TEMPORARY INFORMATION SIGNING

LEGEND

1. DETOUR SIGNING IS SUPPOSED TO BE ONLY DURING PERIODS WHEN DETOUR IS IN EFFECT. ALL CONFLICTING SIGNING SHALL BE COVERED.
2. THIS DETOUR AND ALL DETOUR SIGNS SHOWN HERE, WILL BE PAID AS "TRAFFIC CONTROL AND PROTECTION, (SPECIAL)"





MODEL: $MODELNAME$
FILE NAME: D160894-sht-Detour Plan-2.dgn

AMES Engineering, Inc. CONSULTING ENGINEERS 6330 Belmont Road, Suite 4B Downers Grove, IL 60516	USER NAME = Srahman	DESIGNED - JAR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 171 (ARCHER AVE) & 95TH ST. DETOUR PLAN – FOR IL 171	F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
		DRAWN - MD/SR	REVISED -			3565	U-1-N	COOK	135 / 33
	PLOT SCALE = $SCALES	CHECKED - AS	REVISED -					CONTRACT NO. 60R94	
	PLOT DATE = 5/23/2025	DATE - 03/18/2025	REVISED -		SCALE: 1"=20' SHEET 2 OF 2 SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT	

EROSION AND SEDIMENT CONTROL NOTES

1. ALL SEDIMENT AND EROSION CONTROL MEASURES WILL BE INSTALLED PER IDOT STANDARD 280001 OR AS SPECIFIED HEREIN AND PAID FOR IN ACCORDANCE WITH SECTION 280 OF THE STANDARD SPECIFICATIONS. ALL CONSTRUCTION ACTIVITIES WILL BE IN ACCORDANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM STORM WATER PERMITS ILR10 AND ILR40.

2. EROSION CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH THE SEQUENCE OF STAGE CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT A DETAILED SCHEDULE FOR APPROVAL.

3. SEDIMENT AND EROSION CONTROL DEVICES SHALL BE FUNCTIONAL BEFORE THE PROJECT SITE IS OTHERWISE DISTURBED.

4. ALL DISTURBED AREAS SHALL BE SEEDED OR SODDED AS SOON AS PRACTICAL AFTER CONSTRUCTION ACTIVITIES IN THAT AREA HAVE CONCLUDED. ALL ERODABLE/BARE AREAS SHALL BE SEEDED EVERY 7 DAYS WITH TEMPORARY EROSION CONTROL SEEDING. IF A TOPSOIL STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN THREE DAYS, EROSION CONTROL MEASURES WILL BE PROVIDED.

5. WHERE WETLANDS ARE TO REMAIN, THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO PROTECT WETLANDS FROM DAMAGE BY SEDIMENT, CONSTRUCTION EQUIPMENT OR BY WORK CREWS. THE CONTRACTOR SHALL ASSURE THAT DEBRIS OR ANY CONSTRUCTION MATERIAL IS NOT DISPOSED OF OR STOCKPILED IN WETLANDS.

6. STOCKPILES AND MATERIAL STORAGE ARE PROHIBITED IN SPECIAL MANAGEMENT AREAS INCLUDING WETLANDS, WETLAND BUFFERS, AND FLOOD PLAINS. LOCATIONS OF STOCKPILES MUST BE APPROVED BY THE ENGINEER AND HAVE PROPER EROSION CONTROL MEASURES.

7. RECEPTACLES FOR CONSTRUCTION DEBRIS, INCLUDING CONCRETE TRUCK WASHOUT WASTE, SHALL BE PROVIDED AND MAINTAINED BY THE CONTRACTOR. THESE WILL NOT BE ALLOWED IN SPECIAL MANAGEMENT AREAS. RECEPTACLES AND THEIR LOCATIONS MUST BE APPROVED BY THE ENGINEER AND HAVE PROPER EROSION CONTROL MEASURES. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE APPLICABLE ITEMS OF WORK.

8. HAY OR STRAW BALES WILL NOT BE ALLOWED AS PERIMETER EROSION BARRIER OR AS A DITCH CHECK.

9. WATER PUMPED OR OTHERWISE DISCHARGED FROM THE SITE DURING CONSTRUCTION DEWATERING SHALL BE FILTERED.

10. WHEN TEMPORARY DRAINAGE IS ESTABLISHED, EROSION CONTROL MEASURES MAY BE REQUIRED BY THE ENGINEER.

11. GRAVEL ROADS, ACCESS DRIVES, PARKING AREAS OF SUFFICIENT WIDTH AND LENGTH, AND VEHICLE WASH DOWN FACILITIES IF NECESSARY, SHALL BE PROVIDED TO PREVENT SOIL FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS, ANY SOIL REACHING A PUBLIC OR PRIVATE ROADWAY SHALL BE REMOVED BEFORE THE END OF EACH WORKDAY AND AS NEEDED.

12. CLEANING OF VEHICLES AND EQUIPMENT, INCLUDING CONCRETE MIXERS, SHALL BE PERFORMED IN A MANNER TO REDUCE THE AMOUNT OF POLLUTANTS TRIBUTARY TO STORM SEWERS AND OPEN WATERS TO THE MAXIMUM EXTENT PRACTICAL.

13. ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR POLLUTION RUNOFF. LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.

14. SEDIMENT COLLECTED DURING CONSTRUCTION BY THE VARIOUS TEMPORARY EROSION CONTROL SYSTEMS SHALL BE DISPOSED OF ON A REGULAR BASIS. SEDIMENT SHALL BE REMOVED FROM EROSION CONTROL SYSTEMS WHEN THE HEIGHT OF THE SEDIMENT EXCEEDS ONE- HALF OF THE HEIGHT OF THE FILTER DEVICE.

15. ALL EROSION CONTROL MEASURES SHALL BE KEPT OPERATIONAL AND MAINTAINED CONTINUOUSLY THROUGHOUT THE PERIOD OF LAND DISTURBANCE UNTIL PERMANENT SEDIMENT AND EROSION CONTROL MEASURES ARE OPERATIONAL.

16. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL STABILIZATION IS ACHIEVED.

17. THE ENGINEER SHALL INSPECT EROSION CONTROL MEASURES PERIODICALLY AND WITHIN 24 HOURS OF ANY STORM EXCEEDING 1/2 INCH PRECIPITATION. DAMAGED AND INEFFECTIVE EROSION CONTROL MEASURES SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR WITHIN 24 HOURS. EROSION CONTROL SYSTEMS REPLACED DUE TO SEDIMENT LOADING WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE APPLICABLE EROSION CONTROL ITEM.

18. THE COST OF REMOVING SEDIMENT OR REPAIRING EROSION CONTROL SYSTEMS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE APPLICABLE EROSION CONTROL ITEM.

19. ALL ESC MEASURES WILL BE MAINTAINED IN ACCORDANCE WITH THE IDOT EROSION AND SEDIMENT CONTROL FIELD GUIDE FOR CONSTRUCTION INSPECTION AND IDOT'S BEST MANAGEMENT PRACTICES - MAINTENANCE GUIDE: (http://www.Idot.IllInois.gov/transportation-system/ environment I eroslon-ond-sedlment-control

20. THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR MAINTENANCE OF ALL SOIL EROSION CONTROL DURING CONSTRUCTION.

21. THE CONTRACTOR SHALL CHECK ALL ESC MEASURES WEEKLY AND AFTER EACH RAINFALL, 0.5 INCHES OR GREATER IN A 24 HOUR PERIOD, OR EQUIVALENT SNOWFALL. ADDITIONALLY, DURING WINTER MONTHS, ALL MEASURES SHOULD BE CHECKED BY THE CONTRACTOR AFTER EACH SIGNIFICANT SNOW MELT.

22. THE CONTRACTOR SHOULD PROVIDE TO THE RESIDENT ENGINEER A PLAN TO ENSURE THAT A STABILIZED FLOW LINE WILL BE PROVIDED DURING STORM SEWER CONSTRUCTION. THE USE OF A STABILIZED FLOW LINE BETWEEN INSTALLED STORM SEWER AND OPEN DISTURBANCE WILL REDUCE THE POTENTIAL FOR THE OFFSITE DISCHARGE OF SEDIMENT-BEARING WATERS, ESPECIALLY WHEN RAIN IS FORECASTED, SO THAT FLOW WILL NOT ERODE. LACK OF APPROVED PLAN OR FAILURE TO COMPLY WILL RESULT IN AN ESC DEFICIENCY DEDUCTION.

23. ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER, SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCIDENTAL.

24. TEMPORARY OR PERMANENT STABILIZATION SHALL BE INITIATED IMMEDIATELY UPON COMPLETION OF DISTURBANCE OR IF THE WORK AREA IS TO BE LEFT UNDISTURBED FOR 14 DAYS OR MORE.

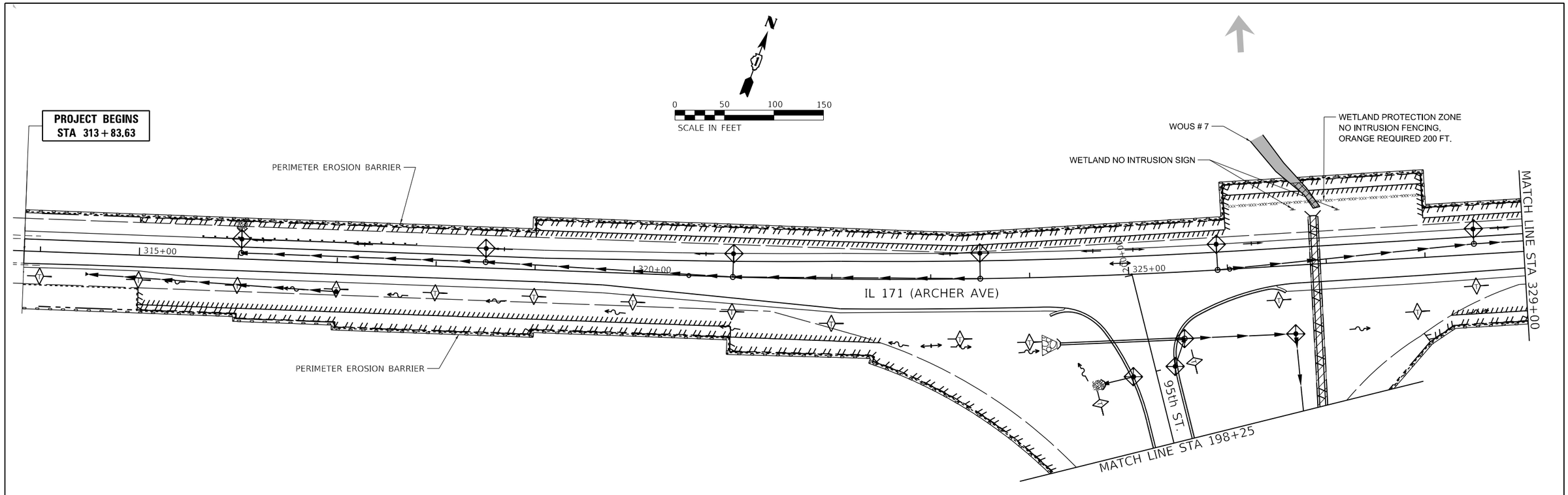
25. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR PROLONG FINAL GRADING AND SHAPING SO THAT THE ENTIRE PROJECT CAN BE PERMANENTLY SEEDED AT ONE TIME.

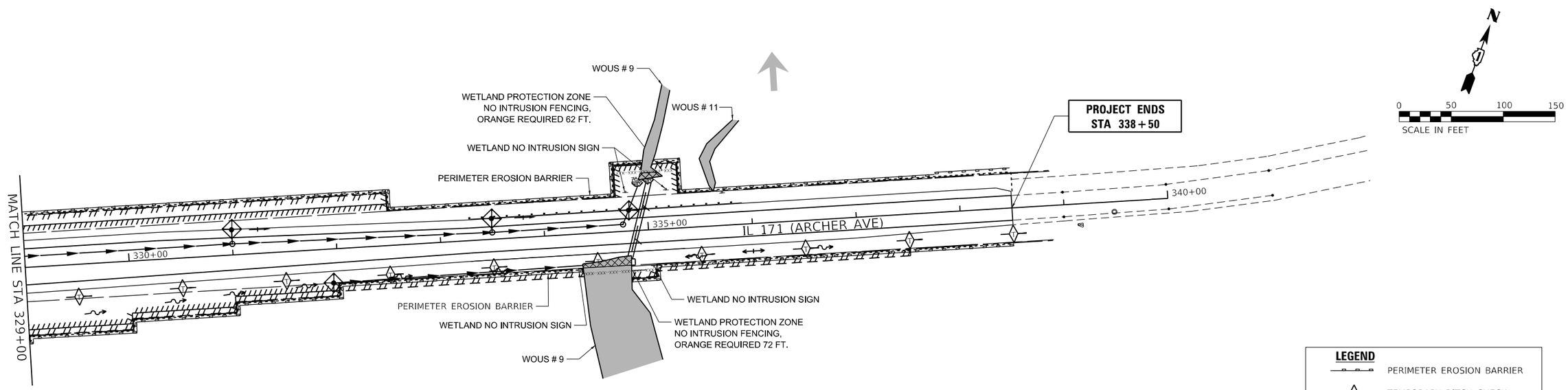
26. EROSION CONTROL ITEMS ARE CONSIDERED TO BE A HIGH PRIORITY ON THIS CONTRACT. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE ENGINEER.

27. THIS PROJECT REQUIRES A US ARMY CORPS OF ENGINEERS (USACE) 404 PERMIT THAT WILL BE SECURED BY THE DEPARTMENT. ALL CONDITIONS OF THE 404 PERMIT, FOUND IN THE SPECIAL PROVISIONS, MUST BE FOLLOWED. AS A CONDITION OF THIS PERMIT, THE CONTRACTOR WILL NEED TO SUBMIT AN IN-STREAM WORK PLAN (INCLUDING WORK WITHIN WETLANDS TO THE DEPARTMENT FOR APPROVAL). GUIDELINES ON ACCEPTABLE IN-STREAM WORK TECHNIQUES (INCLUDING WORK WITHIN WETLANDS CAN BE FOUND ON THE USACE WEBSITE). THE USACE DEFINES AND DETERMINES IN-STREAM WORK. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT AN IN-STREAM WORK PLAN INCLUDING WORK WITHIN WETLANDS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

28. "WETLANDS NO INTRUSION" SIGNAGE SHOULD ALSO BE PROVIDED AT THE BOUNDARY OF ALL UN-IMPACTED WETLANDS AND/OR WOUS. THE CONTRACTOR CAN BORROW THE SIGNS FROM THE BUREAU OF MAINTENANCE. INCLUDE TEMPORARY FENCING AND WETLAND SIGNAGE WITHIN THE EROSION AND SEDIMENT CONTROL STRATEGY.

29. TEMPORARY EROSION CONTROL SEEDING IS SHOWN ON THE LANDSCAPING PLANS.





NOTE :

1. WETLAND PROTECTION ZONE NO INTRUSION FENCING SHOWN OUTSIDE OF ROW FOR CLARITY.

LEGEND

- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECK
- INLET FILTERS
- STONE RIPRAP, CLASS A4

MODEL: $MODELNAME$
FILE NAME: D160R94-sht-ero-2.dgn

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60515

USER NAME = Srahman	DESIGNED - JAR	REVISED -	
	DRAWN - MD/SR	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - AS	REVISED -	
PLOT DATE = 8/29/2025	DATE - 03/18/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

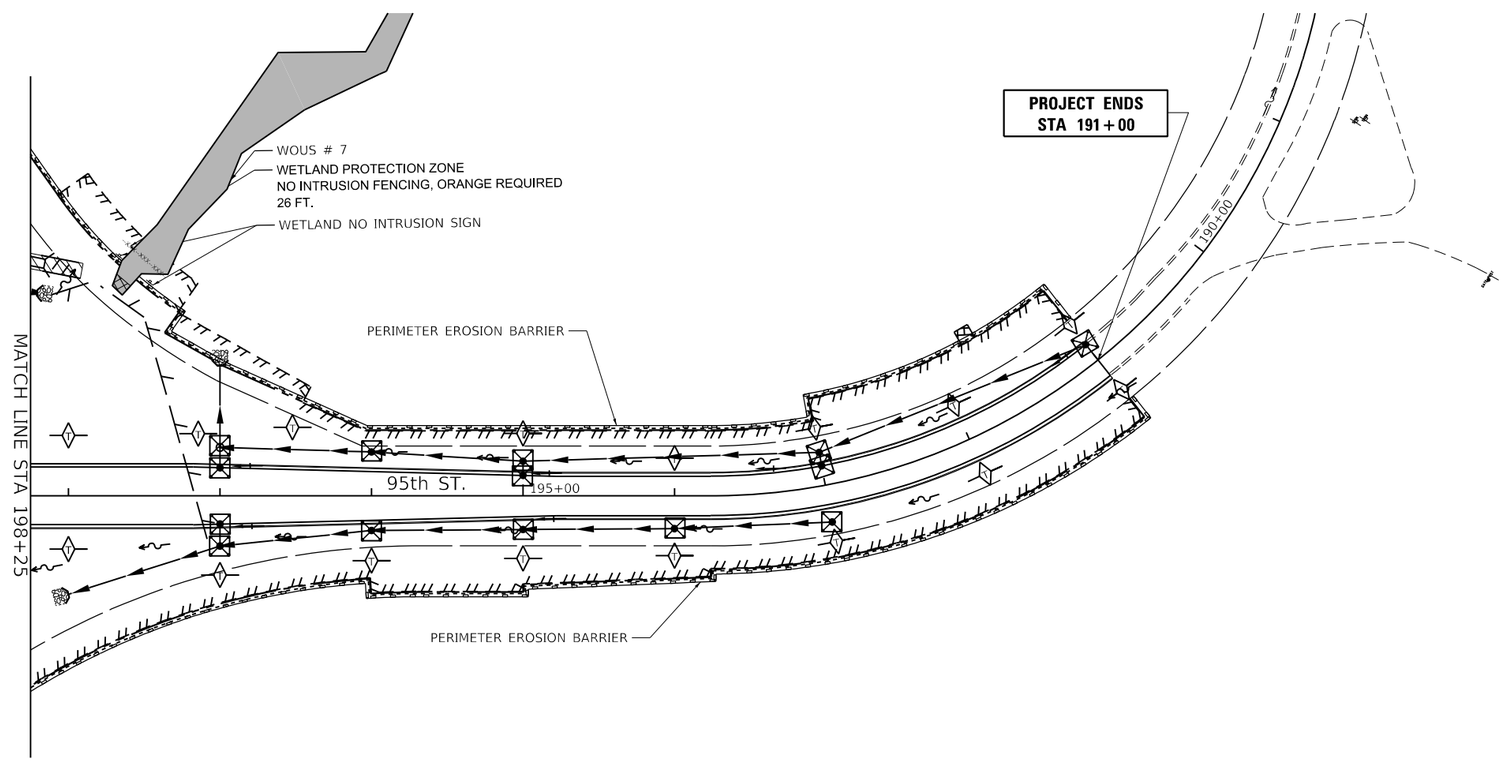
IL 171 (ARCHER AVE) & 95TH ST.
EROSION CONTROL PLAN

SCALE: 1"=50' | SHEET 1 OF 2 SHEETS | STA. 314+00 TO STA. 338+50

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	35

CONTRACT NO. 60R94

ILLINOIS | FED. AID PROJECT



0 50 100 150
SCALE IN FEET

NOTE :

1. WETLAND PROTECTION ZONE NO INTRUSION FENCING SHOWN OUTSIDE OF ROW FOR CLARITY.

LEGEND

- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECK
- INLET FILTERS
- STONE RIPRAP, CLASS A4

MODEL: $MODELNAME$
FILE NAME: D160R94-sht-ero-3.dgn

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60515

USER NAME = $rahman	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = $SCALE$	CHECKED -	REVISED -	
PLOT DATE = 8/29/2025	DATE - 03/18/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 171 (ARCHER AVE) & 95TH ST.
EROSION CONTROL PLAN

SCALE: 1"=50' | SHEET 2 OF 2 SHEETS | STA. 198+25 TO STA. 191+00

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	36

CONTRACT NO. 60R94

ILLINOIS | FED. AID PROJECT

STATE OF ILLINOIS)
) S.S.
COUNTY OF COOK)

UTILITY(IES) LOCATIONS WERE COLLECTED AND DEPCITED AS SHOWN HEREON BY ASE IN ACCORDANCE WITH SUE INDUSTRY STANDARDS CI/ASCE 38-02 FOR QUALITY LEVEL B (QLB) AND QUALITY LEVEL C (QLC). ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED BY OTHERS.

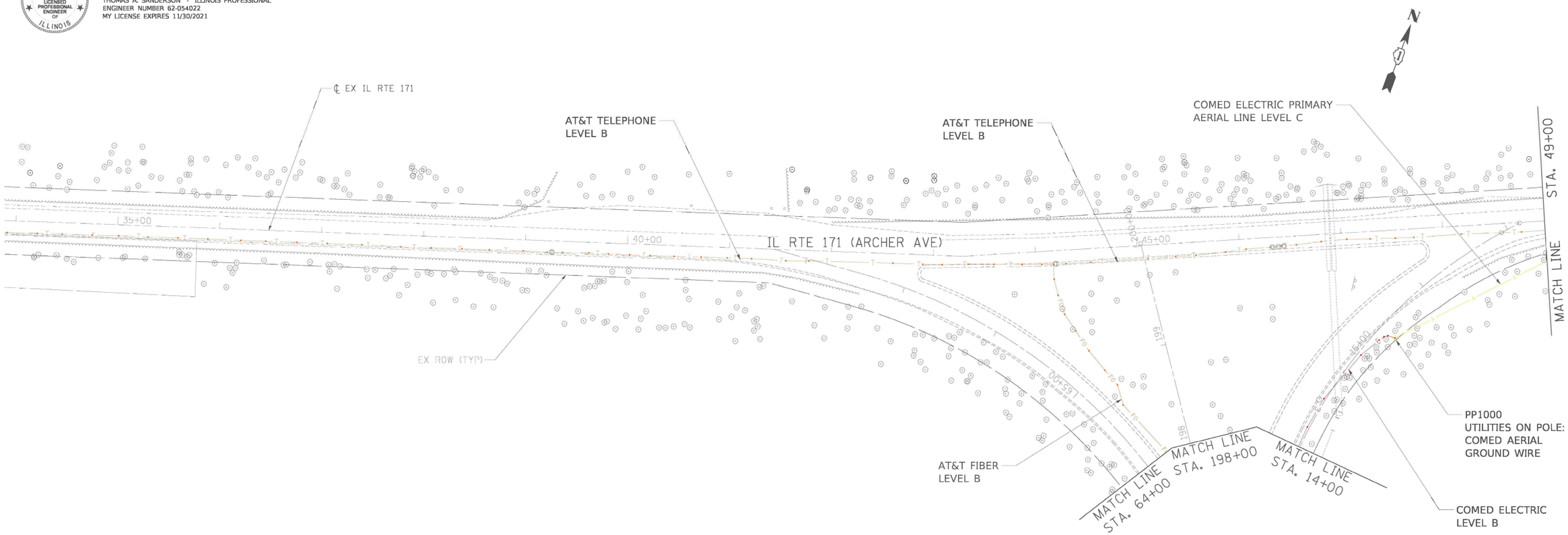
FIELD WORK WAS PERFORMED BETWEEN THE 9TH DAY OF JUNE, 2021 AND THE 30TH DAY OF AUGUST, 2021.

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND SEAL THIS 3RD DAY OF SEPTEMBER A.D., 2021. CHICAGO, IL.

THOMAS A. SANDERSON
062-054022
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

THOMAS A. SANDERSON - ILLINOIS PROFESSIONAL ENGINEER NUMBER 62-054022
MY LICENSE EXPIRES 11/30/2021

NOTES:
1. HORIZONTAL CONTROL, VERTICAL CONTROL, CENTERLINE ALIGNMENT, TOPOGRAPHIC FEATURES, AND RIGHT-OF-WAY WORK WERE SUPPLIED BY ILLINOIS DEPARTMENT OF TRANSPORTATION ON AUGUST 26TH, 2021.



UTILITY LINE LEGEND

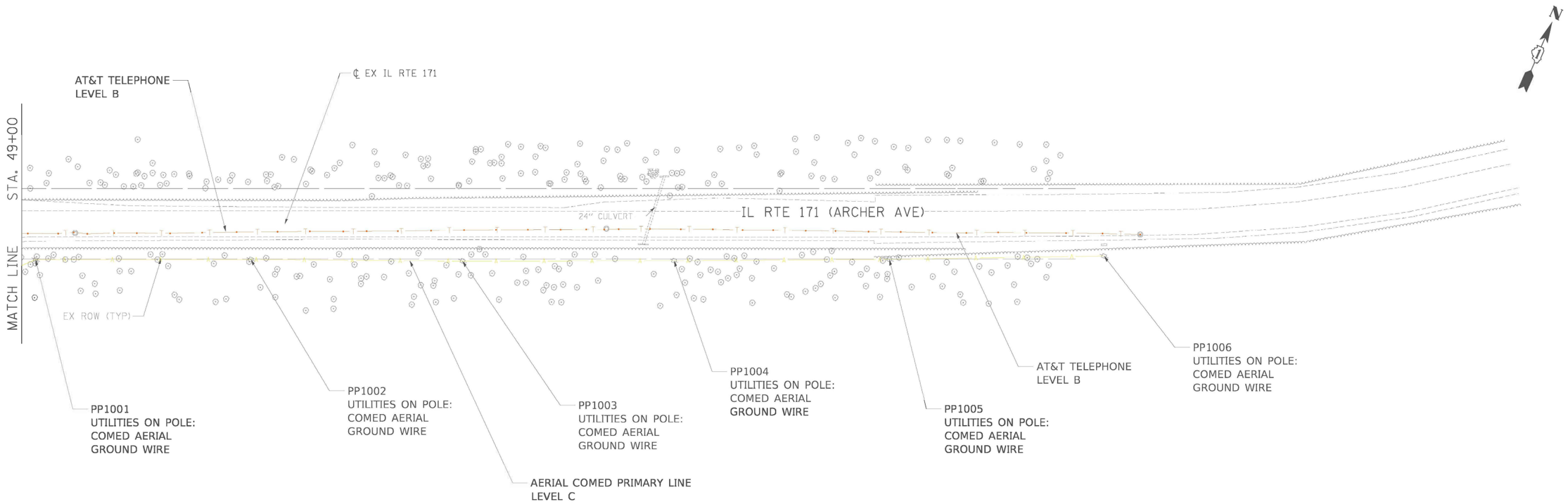
T	EXISTING UNDERGROUND TELEPHONE
W	EXISTING UNDERGROUND WATER
E	EXISTING UNDERGROUND ELECTRIC
G	EXISTING UNDERGROUND GAS
CTV	EXISTING UNDERGROUND CABLE TV
FO	EXISTING UNDERGROUND FIBER OPTIC
A	EXISTING AERIAL LINE
EOGI	END OF SURFACE GEOPHYSICAL INFORMATION
	QUALITY LEVEL A (QLA) TEST HOLE (N/A)
T/P	TOP OF UTILITY PIPE (N/A)

0 50 100 150
SCALE IN FEET

MODEL: Default
FILE NAME: I:\2021\221008.1\03 - SUE\03.01 - CADD\03.01.01 - Model\60R94-sht-utilities-1.dgn

AMERICAN SURVEYING & ENGINEERING, P.C.	USER NAME = moralesj	DESIGNED MM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL RTE 171 SUBSURFACE UTILITY EXPLORATION
		DRAWN JB	REVISED -		
	PLOT SCALE = 50.0000 ' / in.	CHECKED TS	REVISED -		
	PLOT DATE = 9/2/2021	DATE - 9/3/2021	REVISED -		SCALE: 1"=50' SHEET 1 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			135	37
		CONTRACT NO. 60R94		
		ILLINOIS FED. AID PROJECT		



0 50 100 150
SCALE IN FEET

NOTES:
1. HORIZONTAL CONTROL, VERTICAL CONTROL, CENTERLINE ALIGNMENT, TOPOGRAPHIC FEATURES, AND RIGHT-OF-WAY WERE SUPPLIED BY ILLINOIS DEPARTMENT OF TRANSPORTATION ON AUGUST 26TH, 2021.

STATE OF ILLINOIS)
) S.S.
COUNTY OF COOK)

UTILITY(IES) LOCATIONS WERE COLLECTED AND DEPCITED AS SHOWN HEREON BY ASE IN ACCORDANCE WITH SUE INDUSTRY STANDARDS CI/ASCE 38-02 FOR QUALITY LEVEL B (QLB) AND QUALITY LEVEL C (QLC). ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED BY OTHERS.

FIELD WORK WAS PERFORMED BETWEEN THE 9TH DAY OF JUNE, 2021 AND THE 30TH DAY OF AUGUST, 2021.

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND SEAL THIS 3RD DAY OF SEPTEMBER A.D., 2021. CHICAGO, IL.

THOMAS A. SANDERSON
062-054022
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

THOMAS A. SANDERSON - ILLINOIS PROFESSIONAL ENGINEER NUMBER 62-054022
MY LICENSE EXPIRES 11/30/2021

UTILITY LINE LEGEND

T	EXISTING UNDERGROUND TELEPHONE
W	EXISTING UNDERGROUND WATER
E	EXISTING UNDERGROUND ELECTRIC
G	EXISTING UNDERGROUND GAS
CTV	EXISTING UNDERGROUND CABLE TV
FO	EXISTING UNDERGROUND FIBER OPTIC
A	EXISTING AERIAL LINE
EOGI	END OF SURFACE GEOPHYSICAL INFORMATION
	QUALITY LEVEL A (QLA) TEST HOLE (N/A)
T/P	TOP OF UTILITY PIPE (N/A)

MODEL: Default
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AMERICAN SURVEYING & ENGINEERING, P.C.		DRAWN - JM	REVISED -
	PLOT SCALE = 50.0000 ' / in.	CHECKED - TS	REVISED -
	PLOT DATE = 9/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 171
SUBSURFACE UTILITY EXPLORATION

SCALE: 1"=50' | SHEET 2 OF 3 SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			135	38
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		

STATE OF ILLINOIS)
) S.S.
COUNTY OF COOK)

UTILITY(IES) LOCATIONS WERE COLLECTED AND DEPCITED AS SHOWN HEREON BY ASE IN ACCORDANCE WITH SUE INDUSTRY STANDARDS CI/ASCE 38-02 FOR QUALITY LEVEL B (QLB) AND QUALITY LEVEL C (QLC). ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED BY OTHERS.

FIELD WORK WAS PERFORMED BETWEEN THE 9TH DAY OF JUNE, 2021 AND THE 30TH DAY OF AUGUST, 2021.

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND SEAL THIS 3RD DAY OF SEPTEMBER A.D., 2021. CHICAGO, IL.

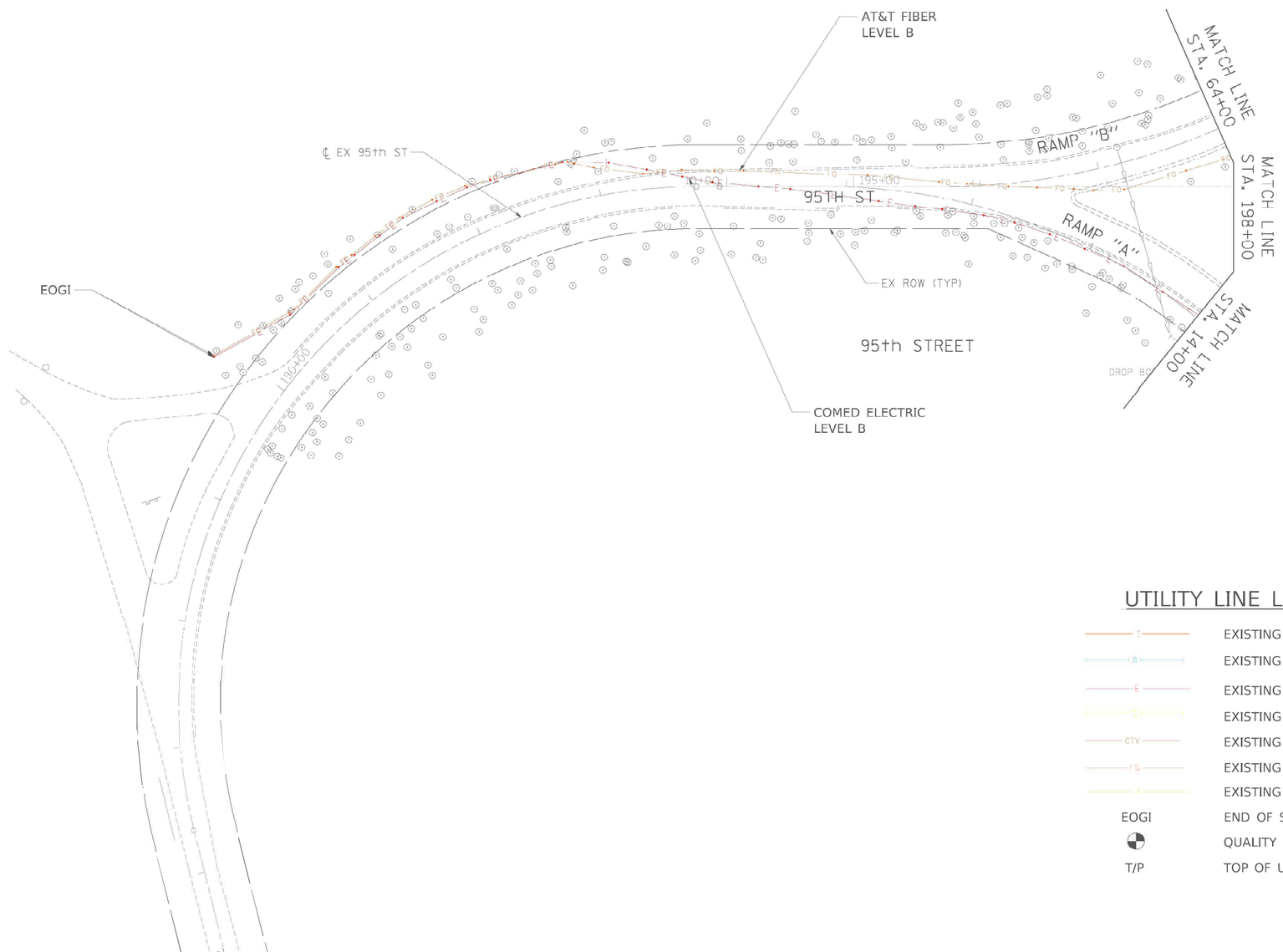
THOMAS A. SANDERSON
062-054022
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

THOMAS A. SANDERSON - ILLINOIS PROFESSIONAL ENGINEER NUMBER 62-054022
MY LICENSE EXPIRES 11/30/2021

NOTES:
1. HORIZONTAL CONTROL, VERTICAL CONTROL, CENTERLINE ALIGNMENT, TOPOGRAPHIC FEATURES, AND RIGHT-OF-WAY WORK WERE SUPPLIED BY ILLINOIS DEPARTMENT OF TRANSPORTATION ON AUGUST 26TH, 2021.

N

0 50 100 150
SCALE IN FEET



UTILITY LINE LEGEND

T	EXISTING UNDERGROUND TELEPHONE
W	EXISTING UNDERGROUND WATER
E	EXISTING UNDERGROUND ELECTRIC
G	EXISTING UNDERGROUND GAS
CTV	EXISTING UNDERGROUND CABLE TV
FO	EXISTING UNDERGROUND FIBER OPTIC
A	EXISTING AERIAL LINE
EOGI	END OF SURFACE GEOPHYSICAL INFORMATION
⊕	QUALITY LEVEL A (QLA) TEST HOLE (N/A)
T/P	TOP OF UTILITY PIPE (N/A)

MODEL: Default
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AMERICAN SURVEYING & ENGINEERING, P.C.		DRAWN - JB	REVISED -
	PLOT SCALE = 50.0000 ' / in.	CHECKED - TS	REVISED -
	PLOT DATE = 9/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

95TH ST
SUBSURFACE UTILITY EXPLORATION

SCALE: 1"=50' | SHEET 3 OF 3 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			135	39
		CONTRACT NO. 60R94		
		ILLINOIS	FED. AID PROJECT	

20 SCHEDULE OF TRENCH BACKFILL

DRAINAGE SCHEDULE		20800150 TRENCH BACKFILL (CU YD)
1	DRAINAGE - REMOVALS & ADJUSTMENTS	1728.0
2	DRAINAGE - PIPE CULVERTS, STORM SEWER & END SECTIONS	2409.3
3	DRAINAGE - CATCH BASINS, MANHOLES & INLETS	0.0
SUBTOTAL DRAINAGE SCHEDULES		4137.3
EXTRA (10%)		413.7
DRAINAGE TOTALS		4552.0

21 SCHEDULE OF DRAINAGE REMOVALS & ADJUSTMENTS

FROM STATION	TO STATION	OFFSET (FOOT)	LT OR RT	20800150 TRENCH BACKFILL (CU YD)	50105220 PIPE CULVERT REMOVAL (FOOT)	55100500 STORM SEWER REMOVAL 12" (FOOT)	55100700 STORM SEWER REMOVAL 15" (FOOT)	60500050 REMOVING CATCH BASIN (EACH)	X1200050 BOX CULVERT REMOVAL (FOOT)
IL-171 (ARCHER AVE)									
326+89.13	326+89.13	0.0	LT - RT	508.3	227.0				
326+89.13	326+89.13	90.0	LT - RT	882.1					226.0
334+88.70	344+88.70	0.0	LT - RT	22.5	75.0				
95TH ST									
197+07.81		30.9	LT					1.0	
197+07.81	197+49.11	115.1	LT - RT	183.1		149.2			
197+49.98	197+78.89	138.6	RT	43.7			35.4		
197+79.88	198+11.31	142.8	RT	88.1			33.0		
198+11.31		132.8	RT					1.0	
TOTAL				1728.0	302.0	150.0	69.0	2.0	226.0

MODEL: Default
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stv

USER NAME = MaM	DESIGNED - MMM	REVISED -
	DRAWN - MMM	REVISED -
PLOT SCALE = 100.000 ' / in.	CHECKED - VYX	REVISED -
PLOT DATE = 5/21/2025	DATE - 5/31/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 171 (ARCHER AVE) & 95TH ST.
PROPOSED DRAINAGE SCHEDULE

SCALE: | SHEET 1 OF 5 SHEETS | STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	40
		CONTRACT NO. 60R94		
	ILLINOIS	FED. AID PROJECT		

SCHEDULE OF PIPE CULVERTS AND STORM SEWERS

PIPE ID	FROM STATION	TO STATION	OFFSET	LT/RT	20800150 TRENCH BACKFILL (CU YD)	550A0340 STORM SEWERS, CLASS A, TYPE 2 12" (FOOT)	550A0360 STORM SEWERS, CLASS A, TYPE 2 15" (FOOT)	550A0380 STORM SEWERS, CLASS A, TYPE 2 18" (FOOT)	550A0720 STORM SEWERS, CLASS A, TYPE 3 27" (FOOT)	550A0730 STORM SEWERS, CLASS A, TYPE 3 30" (FOOT)	60108204 PIPE UNDERDRAINS, TYPE 2, 4" (FOOT)
IL-171 (ARCHER AVE)											
PIPE-401	316+03.00	316+03.00		LT	0.67		6.0				
PIPE-402	316+03.00	316+03.00		LT	3.26	11.5					
PIPE-404	316+03.00	318+50.00		LT	113.63	242.0					
PIPE-409	314+50.00	317+00.00		RT	50.58		249.1				
PIPE-403	318+50.00	318+50.00		LT	2.66	11.2					
PIPE-406	318+50.00	321+00.00		LT	127.18	245.1					
PIPE-405	321+00.00	321+00.00		LT	4.81	21.0					
PIPE-408	321+00.00	323+50.00		LT	133.94	245.0					
PIPE-407	323+50.00	323+50.00		LT	5.94	23.2					
PIPE-310	325+90.00	325+90.00			4.96	23.5					
PIPE-311	325+90.00	328+50.00		LT	122.85	255.2					
PIPE-308	328+50.00	328+50.00		LT	3.10	12.5					
PIPE-309	328+50.00	331+00.00		LT	120.23	245.0					
PIPE-306	331+00.00	331+00.00		LT	2.91	11.0					
PIPE-307	331+00.00	333+50.00		LT	119.66	245.5					
PIPE-304	333+50.00	333+50.00		LT	2.27	11.4					
PIPE-305	333+50.00	334+75.90		LT	94.22	121.4					
PIPE-303	334+74.90	334+82.07		LT	12.21	11.3					
PIPE-302	334+82.07	334+92.07		LT	2.24			23.8			
PIPE-313	331+95.50	334+76.01		RT	174.73		284.0				
UNDERDRAIN											3830.0
95TH ST											
PIPE-224	191+00.00	193+00.00		RT	49.0	187.8					
PIPE-222	193+00.00	193+00.00		RT	1.6	6.9					
PIPE-223	193+00.00	195+00.00		RT	38.7	153.6					
PIPE-215	193+00.00	194+00.00		LT	26.0	102.2					
PIPE-214	194+00.00	195+00.00		LT	27.7	98.0					
PIPE-209	194+60.00	195+00.00		RT	9.7	38.0					
PIPE-220	195+00.00	195+00.00		RT	1.6	8.3					
PIPE-221	195+00.00	196+00.00		RT	53.0	98.2					
PIPE-213	195+00.00	196+00.00		LT	27.9	98.0					
PIPE-219	196+00.00	197+00.00		RT	83.5	96.6					
PIPE-212	196+00.00	197+00.00		LT	29.8		98.5				
PIPE-206	196+00.00	196+00.00		LT	2.2	4.9					
PIPE-225	197+00.00	197+00.00		LT	3.4	13.5					
PIPE-210	197+00.00	197+65.00		LT	32.2		63.1				
PIPE-216	197+65.00	197+65.00		LT	3.5	16.3					
PIPE-211	198+43.00	199+00.00		LT	43.7	58.1					
PIPE-218	197+00.00	197+00.00		RT	9.7	10.9					
PIPE-217	197+00.00	197+00.00		RT	13.3	51.7					
PIPE-226	197+65.00	198+00.00		LT	22.0		43.7				
PIPE-202	198+20.6	199+02.64		RT	0.3	6.9					
PIPE-203	199+02.64	198+20.6		RT	220.2				79.9		
PIPE-204	199+02.64	199+25.01		RT	253.5				106.5		
PIPE-201	199+02.64	199+48.00		RT	61.9	43.2					
PIPE-208	199+00.00	199+25.01		RT	63.4	26.7					
PIPE-205	199+25.01	199+50.00		RT-LT	222.0					122.7	
PIPE-207	199+00.00	199+00.00		LT	7.6	29.6					
UNDERDRAIN											1793.0
TOTAL					2409.28	2885.09	744.45	23.80	186.38	122.72	5623.00

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stv

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	DRAWN - MMM	REVISED -	
PLOT SCALE = 100.000 ' / in.	CHECKED - VYX	REVISED -	
PLOT DATE = 5/21/2025	DATE - 5/31/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 171 (ARCHER AVE) & 95TH ST.
PROPOSED DRAINAGE SCHEDULE

SCALE: | SHEET 2 OF 5 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	41

CONTRACT NO. 60R94

ILLINOIS | FED. AID PROJECT

23	SCHEDULE OF CATCH BASINS, MANHOLES & INLETS																			
STRUCTURE ID	FROM STATION	TO STATION	OFFSET (FOOT)	LT OR RT	NOTES	28100105 STONE RIPRAP, CLASS A3 (SQ YD)	60200805 CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE (EACH)	60201340 CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE (EACH)	60224005 MANHOLES, TYPE A, 6'-DIAMETER, TYPE 8 GRATE (EACH)	60221000 MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, OPEN LID (EACH)	60221100 MANHOLES, TYPE A, 5'-DIA, TYPE 1 FRAME, CLOSED LID (EACH)	60223800 MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID (EACH)	60100060 CONCRETE HEADWALLS FOR PIPE DRAINS (EACH)	54213657 PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12" (EACH)	54213660 PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15" (EACH)	54213663 PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18" (EACH)	54213672 PRECAST REINFORCED CONCRETE FLARED END SECTIONS 27" (EACH)	601101 CONCRETE HEADWALL (EACH)	54215415 CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 15" (EACH)	54215430 CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 30" (EACH)
IL-171 (ARCHER AVE)																				
HW-A411	314+50.00		21.30	RT															1	
CB-A409	316+03.00		20.0	LT				1												
FES-A401	316+03.00		28.00	LT		11.1									1					
MH-A402	316+03.00		6.0	LT							1									
CB-A403	318+50.00		19.7	LT				1												
MH-A404	318+50.00		6.0	LT							1									
MH-A406	321+00.00		0.0								1									
CB-A405	321+00.00		23.5	LT				1												
MH-A409	323+50.00		0.0								1									
CB-A407	323+50.00		25.7	LT				1												
HW-401	316+03.00		21.7	RT									1							
HW-402	318+43.90		21.7	RT									1							
HW-301	328+50.00		26.9	RT									1							
HW-302	331+00.00		24.7	RT									1							
HW-303	333+50.00		24.7	RT									1							
HW-304	334+64.60		24.7	RT									1							
FES-A301	334+92.07		42.5	LT		11.1								1						
CB-A310	325+90.00		26.0	LT				1												
MH-A311	325+90.00		0.0								1									
MH-A309	328+50.00		10.7	LT							1									
CB-A308	328+50.00		25.7	LT				1												
MH-A307	331+00.00		10.7	LT							1									
CB-A306	331+00.00		24.2	LT				1												
MH-A305	333+50.00		6.6	LT							1									
CB-A304	333+50.00		20.0	LT				1												
MH-A303	334+75.90		6.6	LT							1									
MH-A310	334+80.00		30.3	RT					1											
CB-A302	334+82.07		20.0	LT				1												
CB-A313	331+95.00		30.5	RT			1													
																		6		

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stv

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	DRAWN - MMM	REVISED -
PLOT SCALE = 100.000 ' / in.	CHECKED - VYX	REVISED -
PLOT DATE = 5/21/2025	DATE - 5/31/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 171 (ARCHER AVE) & 95TH ST.
PROPOSED DRAINAGE SCHEDULE

SCALE: | SHEET 3 OF 5 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	42
		CONTRACT NO. 60R94		
		ILLINOIS	FED. AID PROJECT	

23	SCHEDULE OF CATCH BASINS, MANHOLES & INLETS																			
STRUCTURE ID	FROM STATION	TO STATION	OFFSET (FOOT)	LT OR RT	NOTES	28100105 STONE RIPRAP, CLASS A3 (SQ YD)	60200805 CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE (EACH)	60201340 CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE (EACH)	60224005 MANHOLES, TYPE A, 6'-DIAMETER, TYPE 8 GRATE (EACH)	60221000 MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, OPEN LID (EACH)	60221100 MANHOLES, TYPE A, 5'-DIA, TYPE 1 FRAME, CLOSED LID (EACH)	60223800 MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID (EACH)	60100060 CONCRETE HEADWALLS FOR PIPE DRAINS (EACH)	54213657 PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12" (EACH)	54213660 PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15" (EACH)	54213663 PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18" (EACH)	54213672 PRECAST REINFORCED CONCRETE FLARED END SECTIONS 27" (EACH)	601101 CONCRETE HEADWALL (EACH)	54215415 CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 15" (EACH)	54215430 CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 30" (EACH)
95TH ST																				
CB-B224	191+00.00		13.0	RT				1												
CB-B223	193+00.00		22.0	RT			1													
CB-B222	193+00.00		13.0	RT				1												
CB-B215	193+00.00		24.7	LT			1													
CB-B214	194+00.00		21.6	LT			1													
CB-B201	194+60.00		22.0	RT			1													
CB-B202	194+60.00		13.0	RT				1												
CB-B220	195+00.00		13.6	RT				1												
CB-B221	195+00.00		22.9	RT			1													
CB-B213	195+00.00		22.3	LT			1													
CB-B219	196+00.00		29.0	RT			1													
CB-B204	196+00.00		16.0	RT				1												
CB-B212	196+00.00		22.8	LT			1													
CB-B210	197+00.00		33.1	LT			1													
CB-B211	197+00.00		18.6	LT				1												
CB-B218	197+00.00		18.6	RT				1												
MH-B217	197+00.00		32.0	RT						1										
FES-B216	197+00.02		86.15	RT										1						
CB-B216	197+65.00		37.2	LT			1													
CB-B206	197+65.00		19.0	LT				1												
FES-B209	198+00.00		65.00	LT		11.1									1					
FES-B201	198+20.6		134.11	RT		11.1											1			
CB-B205	198+43.00		19.0	LT				1												
FES-B206	199+00.00		53.0	LT		11.1								1						
MH-B201	199+02.63		146.2	RT								1	1							
MH-B204	199+25.01		36.0	RT								1	1							
CB-B208	199+00.00		20.0	RT				1												
CB-B207	199+00.00		23.4	LT				1												
CB-B225	199+48.00		133.0	RT			1													
HW-B205	199+50.00		87.21	LT																1
	TOTAL					56	12	21	1	1	9	2	8	3	2	0	1		1	1

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stv

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	DRAWN - MMM	REVISED -	
PLOT SCALE = 100.000 ' / in.	CHECKED - VYX	REVISED -	
PLOT DATE = 5/21/2025	DATE - 5/31/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 171 (ARCHER AVE) & 95TH ST.
PROPOSED DRAINAGE SCHEDULE

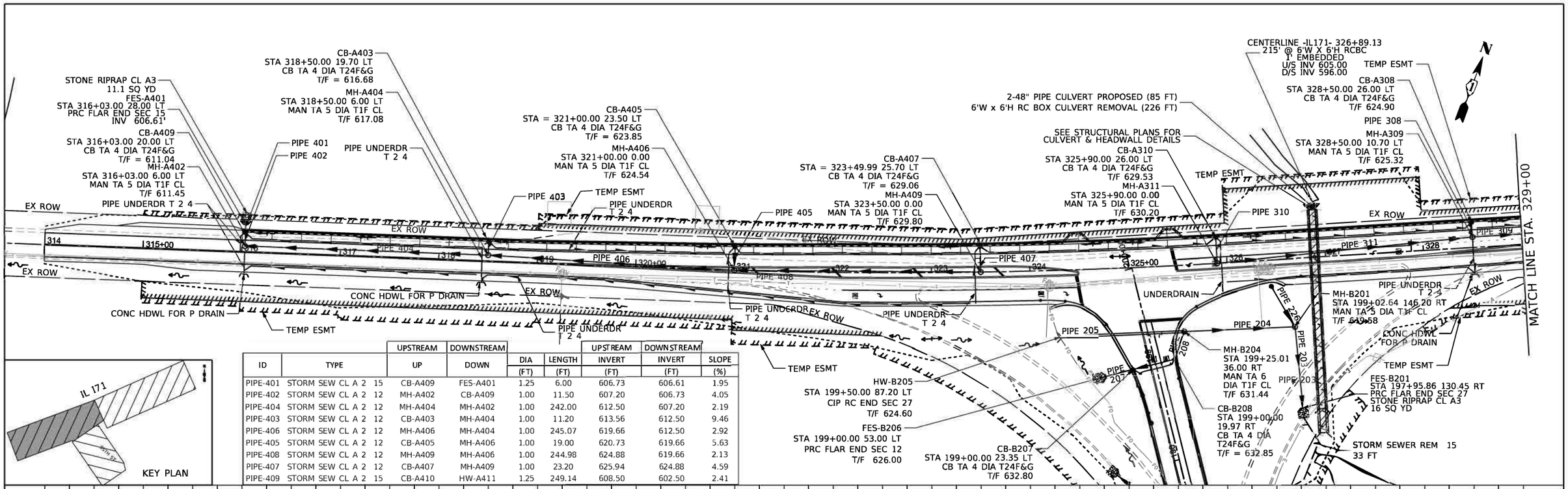
SCALE: | SHEET 4 OF 5 SHEETS | STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	43
		CONTRACT NO. 60R94		
		ILLINOIS	FED. AID PROJECT	

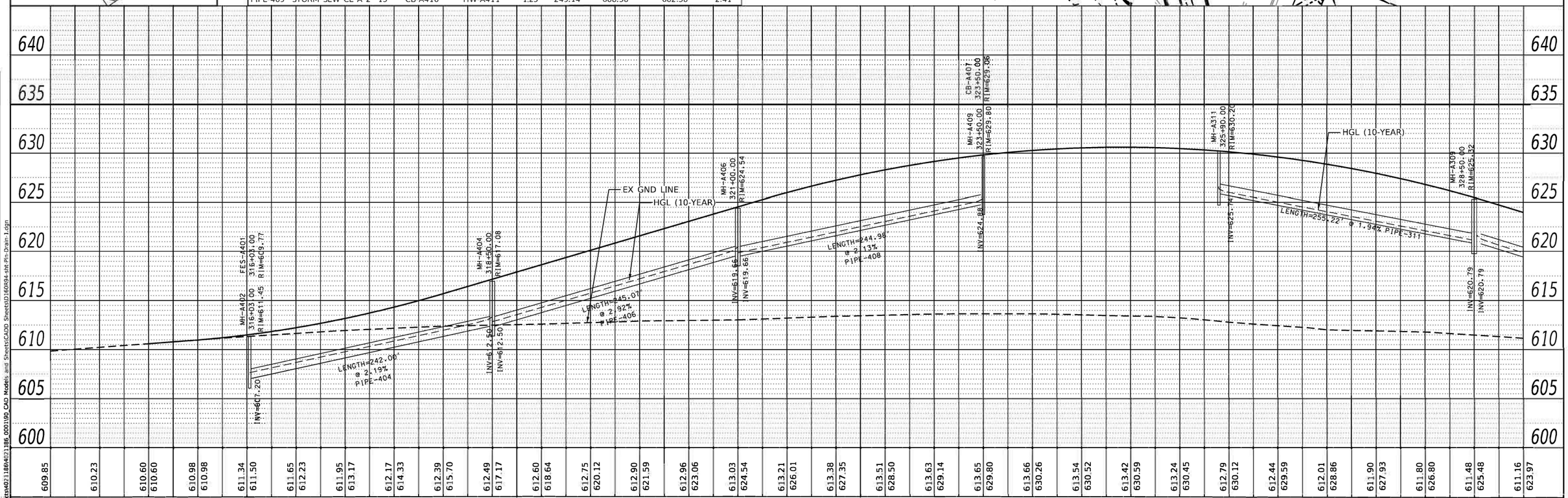
PIPE ID	PAY ITEM DESCRIPTION	STRUCTURE ID	STRUCTURE ID	DIA	LENGTH	INVERT (ft)	INVERT (ft)	SLOPE
		UPSTREAM	DOWNSTREAM	(FT)	(FT)	UPSTREAM	DOWNSTREAM	(%)
PIPE-401	STORM SEW CL A 2 15	CB-A409	FES-A401	1.25	6.00	606.73	606.61	1.95
PIPE-402	STORM SEW CL A 2 12	MH-A402	CB-A409	1.00	11.50	607.20	606.73	4.05
PIPE-404	STORM SEW CL A 2 12	MH-A404	MH-A402	1.00	242.00	612.50	607.20	2.19
PIPE-403	STORM SEW CL A 2 12	CB-A403	MH-A404	1.00	11.20	613.56	612.50	9.46
PIPE-406	STORM SEW CL A 2 12	MH-A406	MH-A404	1.00	245.07	619.66	612.50	2.92
PIPE-405	STORM SEW CL A 2 12	CB-A405	MH-A406	1.00	19.00	620.73	619.66	5.63
PIPE-408	STORM SEW CL A 2 12	MH-A409	MH-A406	1.00	244.98	624.88	619.66	2.13
PIPE-407	STORM SEW CL A 2 12	CB-A407	MH-A409	1.00	23.20	625.94	624.88	4.59

PIPE ID	PAY ITEM DESCRIPTION	STRUCTURE ID	STRUCTURE ID	DIA	LENGTH	INVERT (ft)	INVERT (ft)	SLOPE
		UPSTREAM	DOWNSTREAM	(FT)	(FT)	UPSTREAM	DOWNSTREAM	(%)
PIPE-302	STORM SEW CL A 2 18	CB-A302	FES-A301	1.50	23.77	602.63	602.30	1.39
PIPE-303	STORM SEW CL A 2 12	MH-A303	CB-A302	1.00	11.28	603.75	603.13	5.44
PIPE-305	STORM SEW CL A 2 12	MH-A305	MH-A303	1.00	121.40	608.88	603.75	4.23
PIPE-304	STORM SEW CL A 2 12	CB-A304	MH-A305	1.00	11.38	610.50	608.88	14.22
PIPE-307	STORM SEW CL A 2 12	MH-A307	MH-A305	1.00	245.53	613.15	608.88	1.74
PIPE-306	STORM SEW CL A 2 12	CB-A306	MH-A307	1.00	11.03	613.70	613.15	5.02
PIPE-309	STORM SEW CL A 2 12	MH-A309	MH-A307	1.00	245.00	620.79	613.15	3.12
PIPE-308	STORM SEW CL A 2 12	CB-A308	MH-A309	1.00	12.50	621.54	620.79	6.00
PIPE-311	STORM SEW CL A 2 12	MH-A311	MH-A309	1.00	255.22	625.74	620.79	1.94
PIPE-310	STORM SEW CL A 2 12	CB-A310	MH-A311	1.00	23.50	626.81	625.74	4.53
PIPE-313	STORM SEW CL A 2 15	CB-A313	MH-A310	1.25	284.00	608.18	603.00	1.82

PIPE ID	PAY ITEM DESCRIPTION	STRUCTURE ID	STRUCTURE ID	DIA	LENGTH	INVERT (ft)	INVERT (ft)	SLOPE
		UPSTREAM	DOWNSTREAM	(FT)	(FT)	UPSTREAM	DOWNSTREAM	(%)
PIPE-201	STORM SEW CL A 2 12	CB-B225	MH-B201	1	43.24	607.3	606.3	2.31
PIPE-202	STORM SEW CL A 2 12	CB-B202	CB-B201	1	6.94	651	650.58	6.05
PIPE-203	STORM SEW CL A 3 27	MH-B201	FES-B201	2.25	80.43	606.3	605.5	0.99
PIPE-204	STORM SEW CL A 3 27	MH-B204	MH-B201	2.25	106.95	615.09	608.65	6.02
PIPE-205	STORM SEW CL A 3 30	HW-B205	MH-B204	2.5	122.72	617	615.09	1.56
PIPE-206	STORM SEW CL A 2 12	CB-B204	CB-B212	1.00	4.86	641.20	640.66	11.11
PIPE-207	STORM SEW CL A 2 12	CB-B207	FES-B206	1	29.6	626.78	625	6.01
PIPE-208	STORM SEW CL A 2 12	CB-B208	MH-B204	1	26.69	616.61	615.09	5.70
PIPE-209	STORM SEW CL A 2 12	CB-B201	MH-B221	1	38	648.5	646.2	6.05
PIPE-210	STORM SEW CL A 2 15	CB-B210	CB-B216	1.25	63.13	635.00	632.00	4.75
PIPE-211	STORM SEW CL A 2 12	CB-B205	CB-B207	1.00	58.10	628.00	626.78	2.11
PIPE-212	STORM SEW CL A 2 15	CB-B212	CB-B210	1.25	98.53	640.66	635.22	5.52
PIPE-213	STORM SEW CL A 2 12	CB-B213	CB-B212	1.00	98.00	646.41	640.66	5.87
PIPE-214	STORM SEW CL A 2 12	CB-B214	CB-B213	1.00	98.00	652.29	646.41	6.00
PIPE-215	STORM SEW CL A 2 12	CB-B215	CB-B214	1.00	102.23	657.68	652.81	4.76
PIPE-216	STORM SEW CL A 2 12	CB-B206	CB-B216	1.00	16.27	633.50	633.00	3.07
PIPE-217	STORM SEW CL A 2 12	MH-B217	FES-B216	1.00	51.65	629.10	626.38	5.26
PIPE-218	STORM SEW CL A 2 12	CB-B218	MH-B217	1.00	10.90	632.09	631.44	5.96
PIPE-219	STORM SEW CL A 2 12	CB-B219	MH-B217	1.00	96.55	637.23	633.44	3.93
PIPE-220	STORM SEW CL A 2 12	CB-B220	CB-B221	1.00	8.25	648.00	646.20	21.82
PIPE-221	STORM SEW CL A 2 12	CB-B221	CB-B219	1.00	98.19	646.20	640.99	5.31
PIPE-222	STORM SEW CL A 2 12	CB-B222	CB-B223	1.00	6.94	657.50	656.74	10.95
PIPE-223	STORM SEW CL A 2 12	CB-B223	CB-B201	1.00	153.63	656.74	648.50	5.36
PIPE-224	STORM SEW CL A 2 12	CB-B224	CB-B223	1.00	187.78	663.65	656.74	3.68
PIPE-225	STORM SEW CL A 2 12	CB-B211	CB-B210	1.00	13.50	636.19	635.22	7.19
PIPE-226	STORM SEW CL A 2 15	CB-B216	FES-B209	1.25	43.69	632.00	629.72	5.21



ID	TYPE	UPSTREAM UP	DOWNSTREAM DOWN	DIA (FT)	LENGTH (FT)	UPSTREAM INVERT (FT)	DOWNSTREAM INVERT (FT)	SLOPE (%)
PIPE-401	STORM SEW CL A 2 15	CB-A409	FES-A401	1.25	6.00	606.73	606.61	1.95
PIPE-402	STORM SEW CL A 2 12	MH-A402	CB-A409	1.00	11.50	607.20	606.73	4.05
PIPE-404	STORM SEW CL A 2 12	MH-A404	MH-A402	1.00	242.00	612.50	607.20	2.19
PIPE-403	STORM SEW CL A 2 12	CB-A403	MH-A404	1.00	11.20	613.56	612.50	9.46
PIPE-406	STORM SEW CL A 2 12	MH-A406	MH-A404	1.00	245.07	619.66	612.50	2.92
PIPE-405	STORM SEW CL A 2 12	CB-A405	MH-A406	1.00	19.00	620.73	619.66	5.63
PIPE-408	STORM SEW CL A 2 12	MH-A409	MH-A406	1.00	244.98	624.88	619.66	2.13
PIPE-407	STORM SEW CL A 2 12	CB-A407	MH-A409	1.00	23.20	625.94	624.88	4.59
PIPE-409	STORM SEW CL A 2 15	CB-A410	HW-A411	1.25	249.14	608.50	602.50	2.41



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PLOT DATE = 5/21/2025	DATE - $DATE	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 171
DRAINAGE PLAN AND PROFILE

SCALE: 1" = 50' | SHEET 1 OF 4 SHEETS | STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U- 1- N	COOK	135	45
		CONTRACT NO. 60R94		
		ILLINOIS	FED. AID PROJECT	

PLAN: SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK / NO. / BY / DATE

PROFILE: SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTAT'NS CH'KD / NOTE BOOK / NO. / BY / DATE

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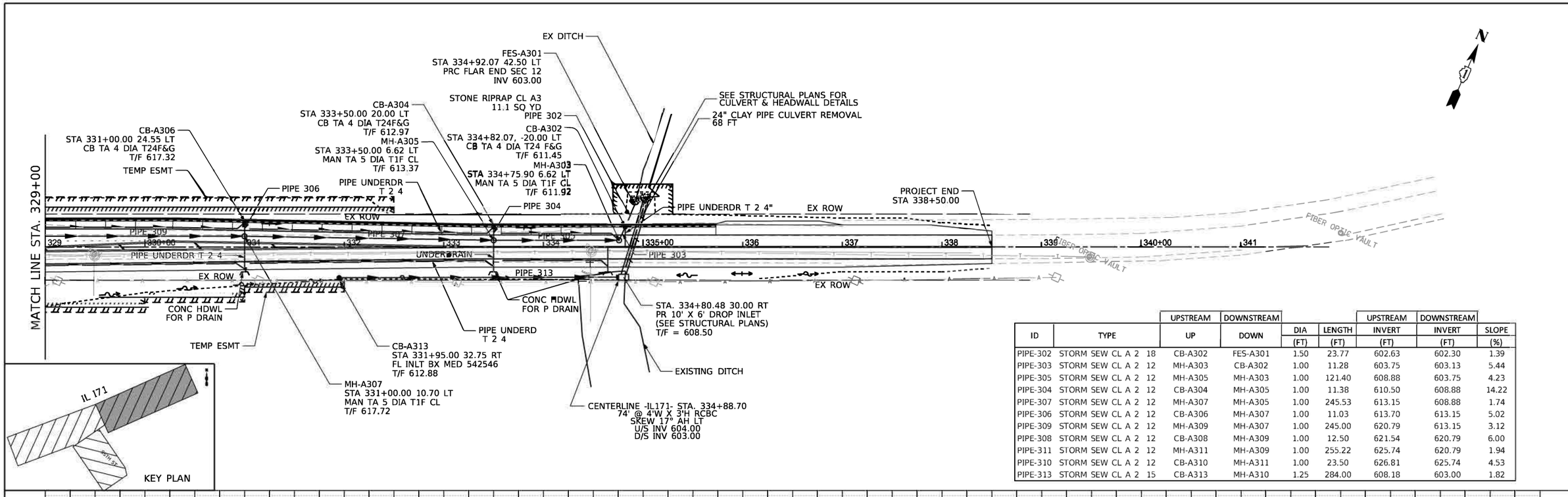

ID	TYPE	UPSTREAM UP	DOWNSTREAM DOWN	DIA (FT)	LENGTH (FT)	UPSTREAM INVERT (FT)	DOWNSTREAM INVERT (FT)	SLOPE (%)
PIPE-302	STORM SEW CL A 2 18	CB-A302	FES-A301	1.50	23.77	602.63	602.30	1.39
PIPE-303	STORM SEW CL A 2 12	MH-A303	CB-A302	1.00	11.28	603.75	603.13	5.44
PIPE-305	STORM SEW CL A 2 12	MH-A305	MH-A303	1.00	121.40	608.88	603.75	4.23
PIPE-304	STORM SEW CL A 2 12	CB-A304	MH-A305	1.00	11.38	610.50	608.88	14.22
PIPE-307	STORM SEW CL A 2 12	MH-A307	MH-A305	1.00	245.53	613.15	608.88	1.74
PIPE-306	STORM SEW CL A 2 12	CB-A306	MH-A307	1.00	11.03	613.70	613.15	5.02
PIPE-309	STORM SEW CL A 2 12	MH-A309	MH-A307	1.00	245.00	620.79	613.15	3.12
PIPE-308	STORM SEW CL A 2 12	CB-A308	MH-A309	1.00	12.50	621.54	620.79	6.00
PIPE-311	STORM SEW CL A 2 12	MH-A311	MH-A309	1.00	255.22	625.74	620.79	1.94
PIPE-310	STORM SEW CL A 2 12	CB-A310	MH-A311	1.00	23.50	626.81	625.74	4.53
PIPE-313	STORM SEW CL A 2 15	CB-A313	MH-A310	1.25	284.00	608.18	603.00	1.82

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
ALIGNMENTS CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

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	DRAWN - MMM	REVISED -	
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PLOT DATE = 5/21/2025	DATE - $DATE	REVISED -	

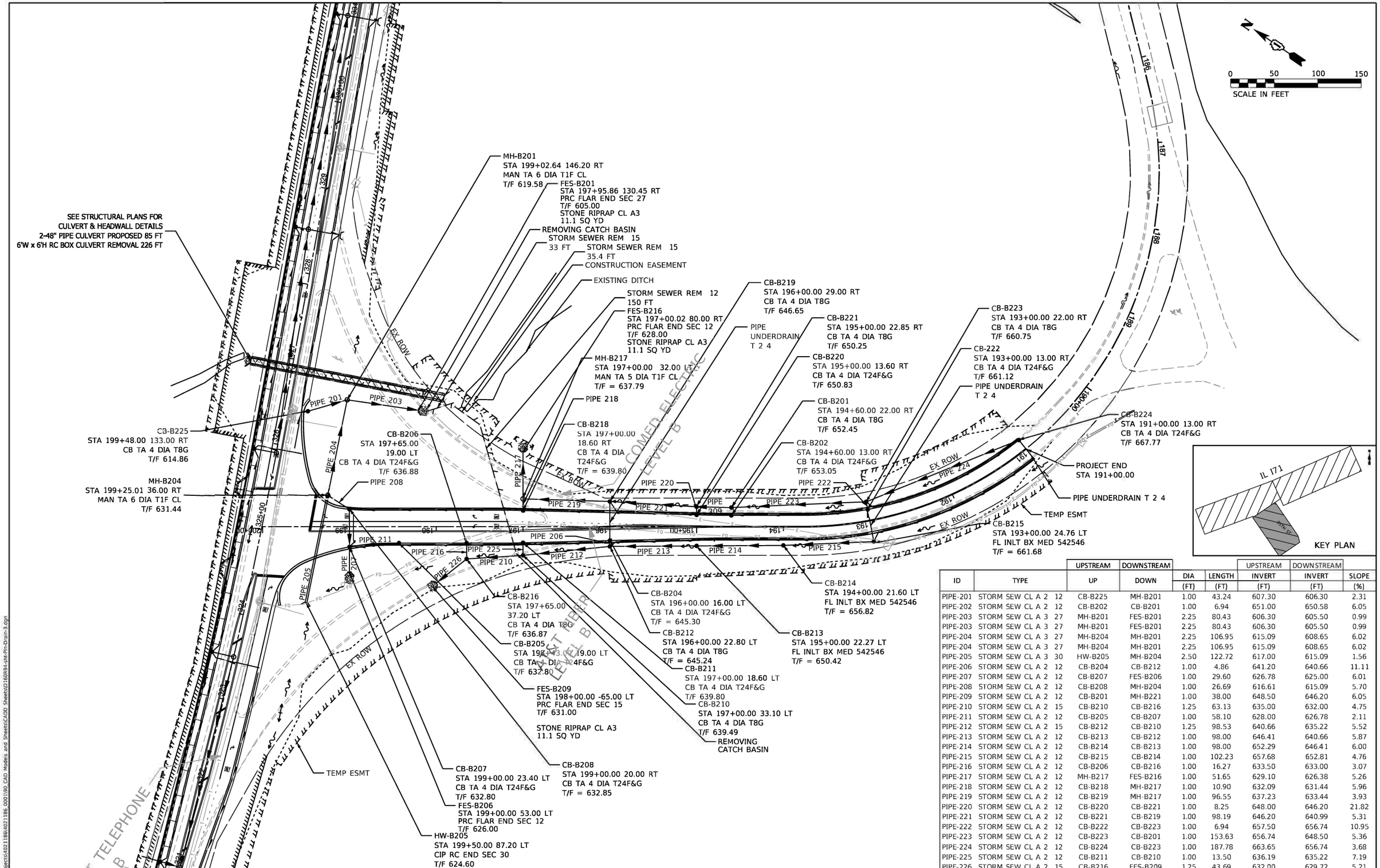
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 171
DRAINAGE PLAN AND PROFILE

SCALE: 1" = 50' | SHEET 2 OF 4 SHEETS | STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	46
		CONTRACT NO. 60R94		

ILLINOIS | FED. AID PROJECT



ID	TYPE	UPSTREAM UP	DOWNSTREAM DOWN	DIA (FT)	LENGTH (FT)	UPSTREAM INVERT (FT)	DOWNSTREAM INVERT (FT)	SLOPE (%)
PIPE-201	STORM SEW CL A 2 12	CB-B225	MH-B201	1.00	43.24	607.30	606.30	2.31
PIPE-202	STORM SEW CL A 2 12	CB-B202	CB-B201	1.00	6.94	651.00	650.58	6.05
PIPE-203	STORM SEW CL A 3 27	MH-B201	FES-B201	2.25	80.43	606.30	605.50	0.99
PIPE-203	STORM SEW CL A 3 27	MH-B201	FES-B201	2.25	80.43	606.30	605.50	0.99
PIPE-204	STORM SEW CL A 3 27	MH-B204	MH-B201	2.25	106.95	615.09	608.65	6.02
PIPE-204	STORM SEW CL A 3 27	MH-B204	MH-B201	2.25	106.95	615.09	608.65	6.02
PIPE-205	STORM SEW CL A 3 30	HW-B205	MH-B204	2.50	122.72	617.00	615.09	1.56
PIPE-206	STORM SEW CL A 2 12	CB-B204	CB-B212	1.00	4.86	641.20	640.66	11.11
PIPE-207	STORM SEW CL A 2 12	CB-B207	FES-B206	1.00	29.60	626.78	625.00	6.01
PIPE-208	STORM SEW CL A 2 12	CB-B208	MH-B204	1.00	26.69	616.61	615.09	5.70
PIPE-209	STORM SEW CL A 2 12	CB-B201	MH-B221	1.00	38.00	648.50	646.20	6.05
PIPE-210	STORM SEW CL A 2 15	CB-B210	CB-B216	1.25	63.13	635.00	632.00	4.75
PIPE-211	STORM SEW CL A 2 12	CB-B205	CB-B207	1.00	58.10	628.00	626.78	2.11
PIPE-212	STORM SEW CL A 2 15	CB-B212	CB-B210	1.25	98.53	640.66	635.22	5.52
PIPE-213	STORM SEW CL A 2 12	CB-B213	CB-B212	1.00	98.00	646.41	640.66	5.87
PIPE-214	STORM SEW CL A 2 12	CB-B214	CB-B213	1.00	98.00	652.29	646.41	6.00
PIPE-215	STORM SEW CL A 2 12	CB-B215	CB-B214	1.00	102.23	657.68	652.81	4.76
PIPE-216	STORM SEW CL A 2 12	CB-B206	CB-B216	1.00	16.27	633.50	633.00	3.07
PIPE-217	STORM SEW CL A 2 12	MH-B217	FES-B216	1.00	51.65	629.10	626.38	5.26
PIPE-218	STORM SEW CL A 2 12	CB-B218	MH-B217	1.00	10.90	632.09	631.44	5.96
PIPE-219	STORM SEW CL A 2 12	CB-B219	MH-B217	1.00	96.55	637.23	633.44	3.93
PIPE-220	STORM SEW CL A 2 12	CB-B220	CB-B221	1.00	8.25	648.00	646.20	21.82
PIPE-221	STORM SEW CL A 2 12	CB-B221	CB-B219	1.00	98.19	646.20	640.99	5.31
PIPE-222	STORM SEW CL A 2 12	CB-B222	CB-B223	1.00	6.94	657.50	656.74	10.95
PIPE-223	STORM SEW CL A 2 12	CB-B223	CB-B201	1.00	153.63	656.74	648.50	5.36
PIPE-224	STORM SEW CL A 2 12	CB-B224	CB-B223	1.00	187.78	663.65	656.74	3.68
PIPE-225	STORM SEW CL A 2 12	CB-B211	CB-B210	1.00	13.50	636.19	635.22	7.19
PIPE-226	STORM SEW CL A 2 15	CB-B216	FES-B209	1.25	43.69	632.00	629.72	5.21

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	DRAWN - MMM	REVISED -		
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PLOT DATE = 5/21/2025	DATE - 5/31/2024	REVISED -		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

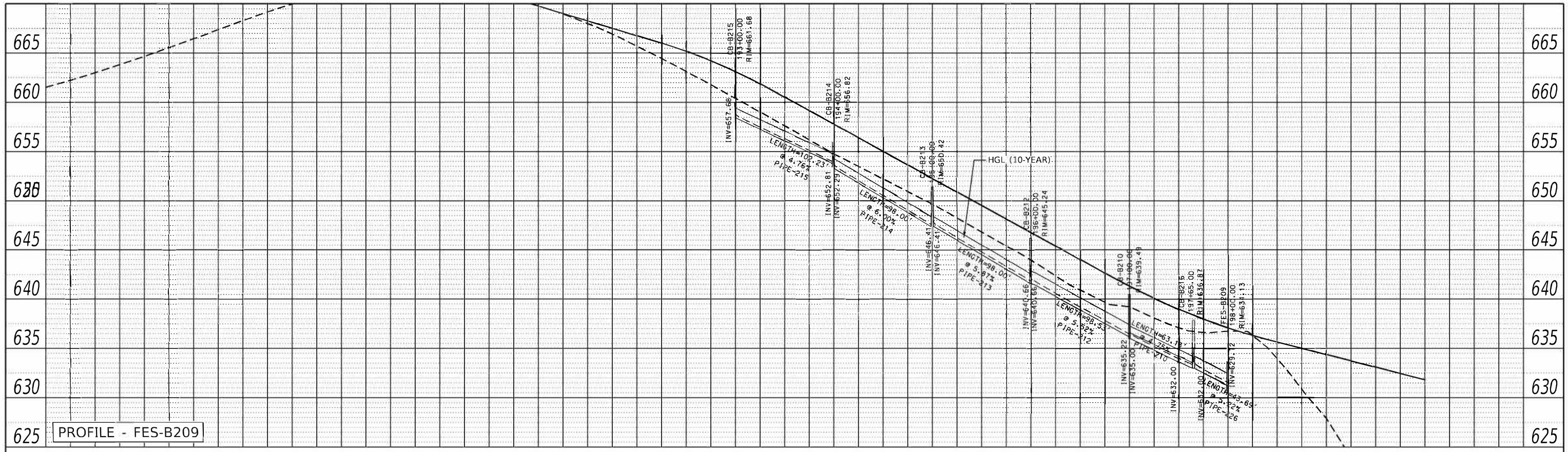
95TH STREET
DRAINAGE PLAN AND PROFILE

SCALE: | SHEET 3 OF 4 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	47

CONTRACT NO. 60R94

ILLINOIS | FED. AID PROJECT



PLAN		BY	DATE
NOTE BOOK NO.	SURVEYED / PLOTTED / ALIGNMENT CHECKED / R/ OF WAY CHECKED / CADD FILE NAME		

PROFILE		BY	DATE
NOTE BOOK NO.	SURVEYED / PLOTTED / CURVES CHECKED / B.M. NOTED / STRUCTURE NOTAT'NS CHKD		

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stv

USER NAME = MaM	DESIGNED - MMM	REVISED -
	DRAWN - MMM	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - VYX	REVISED -
PLOT DATE = 5/21/2025	DATE - SDATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

95TH STREET
DRAINAGE PLAN AND PROFILE

SCALE: 1" = 50' | SHEET 4 OF 4 SHEETS | STA. TO STA.

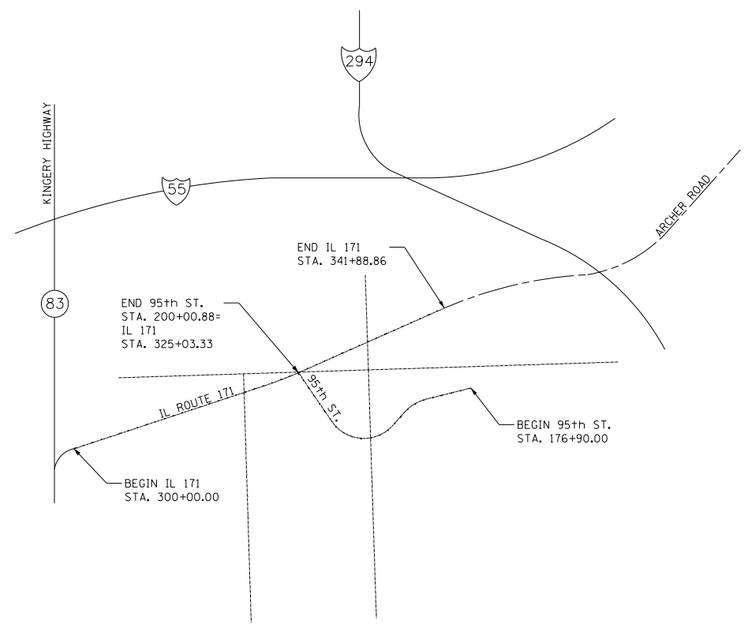
F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	48
		CONTRACT NO. 60R94		
		ILLINOIS FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

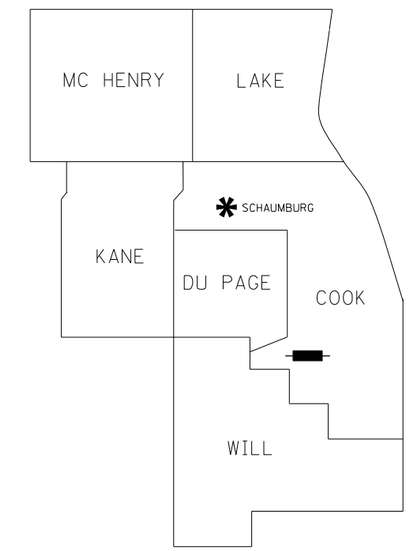
PLAT OF HIGHWAYS

ROUTE: IL 171
SECTION: _____
COUNTY: COOK
LIMITS: AT 95th STREET
JOB NO.: R–90–006–05

PARCEL NUMBER	OWNER	SHEET NUMBER	PROPERTY ACQUIRED BY
0G90001PE 0G90001TE-A 0G90001TE-B	THE FOREST PRESERVE DISTRICT OF COOK COUNTY	2, 3 & 5	
0G90002PE-A 0G90002PE-B 0G90002TE-A 0G90002TE-B 0G90002TE-C 0G90002TE-D	THE FOREST PRESERVE DISTRICT OF COOK COUNTY	2, 3, 4 & 5	
0G90003PE-A 0G90003PE-B 0G90003TE-A 0G90003TE-B 0G90003TE-C 0G90003TE-D 0G90003TE-E 0G90003TE-F	THE FOREST PRESERVE DISTRICT OF COOK COUNTY	3, 4, 5 & 6	



LOCATION MAP



DISTRICT HEADQUARTERS: –
LOCATION OF SECTION INDICATED THUS: –

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

Ruettiger, Tonelli & Associates, Inc.
Surveyors • Engineers • Planners • Landscape Architects • G.I.S. Consultants
129 CAPISTA DRIVE • SHOREWOOD, ILLINOIS 60404
PH. (815) 744-6600 FAX (815) 744-0101
website: www.ruettigertonelli.com

R.T. & A. Dwg. No.: 2020-0183

SHEET 49 OF 135 SHEETS

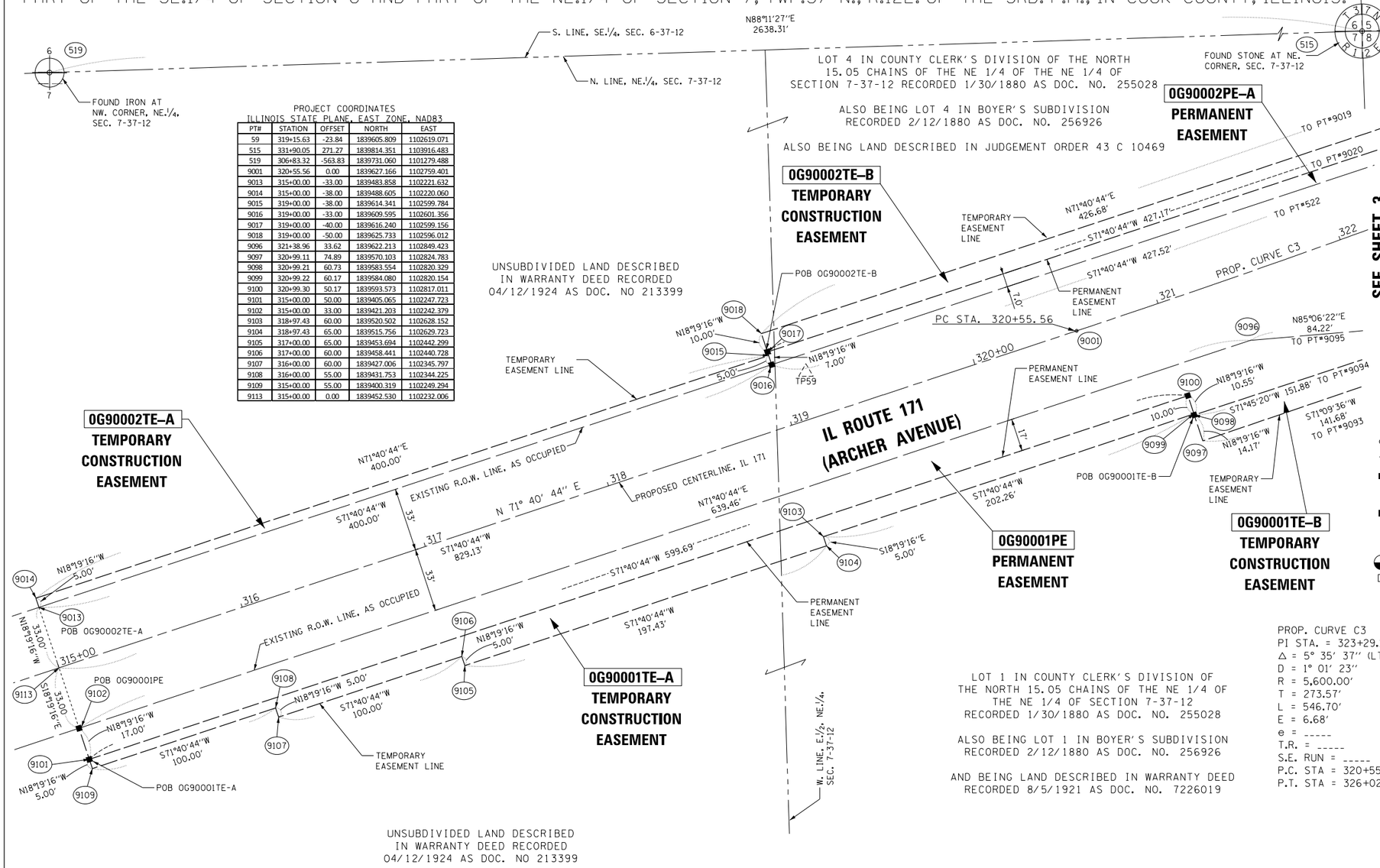
RETURN ORIGINAL TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SHAUMBURG ILLINOIS, 60169
ATTN: BUREAU OF LAND ACQUISITION

IDOT USE ONLY

APPROVED
By William Wright at 12:55 pm, Dec 02, 2022

PART OF THE SE.1/4 OF SECTION 6 AND PART OF THE NE.1/4 OF SECTION 7, TWP.37 N., R.12E. OF THE 3RD. P.M., IN COOK COUNTY, ILLINOIS.



PROJECT COORDINATES
ILLINOIS STATE PLANE, EAST ZONE, NAD83

PT#	STATION	OFFSET	NORTH	EAST
59	319+15.63	-23.84	1839605.809	1102619.071
515	331+90.05	271.27	1839814.351	1103916.483
519	306+83.32	-563.83	1839731.060	1101279.488
9001	320+55.56	0.00	1839627.166	1102759.401
9013	315+00.00	-33.00	1839483.858	1102221.632
9014	315+00.00	-38.00	1839488.605	1102220.060
9015	319+00.00	-38.00	1839614.341	1102599.784
9016	319+00.00	-33.00	1839609.595	1102601.356
9017	319+00.00	-40.00	1839616.240	1102599.156
9018	319+00.00	-50.00	1839625.733	1102596.012
9096	321+38.96	33.62	1839622.213	1102849.423
9097	320+99.11	74.89	1839570.103	1102824.783
9098	320+99.21	60.73	1839583.554	1102820.329
9099	320+99.22	60.17	1839584.080	1102820.154
9100	320+99.30	50.17	1839593.573	1102817.011
9101	315+00.00	50.00	1839405.065	1102247.723
9102	315+00.00	33.00	1839421.203	1102242.379
9103	318+97.43	60.00	1839520.502	1102628.152
9104	318+97.43	65.00	1839515.756	1102629.723
9105	317+00.00	65.00	1839453.694	1102442.299
9106	317+00.00	60.00	1839458.441	1102440.728
9107	316+00.00	60.00	1839427.006	1102345.797
9108	316+00.00	55.00	1839431.753	1102344.225
9109	315+00.00	55.00	1839400.319	1102249.294
9113	315+00.00	0.00	1839452.530	1102232.006

LEGEND

SECTION CORNER
QUARTER SECTION CORNER

SECTION / QUARTER SECTION LINE
PLATTED LOT LINES
PROPERTY (DEED) LINE
APPARENT PROPERTY LINE
EXISTING CENTERLINE
PROPOSED CENTERLINE
EXISTING RIGHT OF WAY LINE
PROPOSED RIGHT OF WAY LINE
EXISTING EASEMENT
PROPOSED EASEMENT
EXISTING ACCESS CONTROL LINE
PROPOSED ACCESS CONTROL LINE
129.32' MEASURED DIMENSION
129.32' (COMP) COMPUTED DIMENSION
(129.32') RECORDED DIMENSION
EXISTING BUILDING

GRAPHIC SCALE FEET 0 30
SCALE: 1"= 30'

SEE SHEET 3

BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD83, EAST ZONE AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

○ 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.
■ M 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

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT AREA SQUARE FEET	PARCEL INDEX NUMBER
0G90001PE 0GP0001TE-A 0GP0001TE-B	N/A	0.00	0.00	N/A	PE-0.296 TE-A-0.149 TE-B-0.497		23-07-202-001 23-07-200-001
0G90002PE-A 0G90002PE-B 0G90002TE-A 0G90002TE-B 0G90002TE-C 0G90002TE-D	N/A	0.00	0.00	N/A	PE-A-0.376 PE-B-0.041 TE-A-0.046 TE-B-0.160 TE-C-0.048 TE-D-0.103		23-06-401-009 23-07-201-001 23-06-401-010 23-07-200-001 23-05-301-001

LOT 1 IN COUNTY CLERK'S DIVISION OF THE NORTH 15.05 CHAINS OF THE NE 1/4 OF THE NE 1/4 OF SECTION 7-37-12 RECORDED 1/30/1880 AS DOC. NO. 255028

ALSO BEING LOT 1 IN BOYER'S SUBDIVISION RECORDED 2/12/1880 AS DOC. NO. 256926

AND BEING LAND DESCRIBED IN WARRANTY DEED RECORDED 8/5/1921 AS DOC. NO. 7226019

PROP. CURVE C3
PI STA. = 323+29.13
Δ = 5° 35' 37" (LT)
D = 1° 01' 23"
R = 5,600.00'
T = 273.57'
L = 546.70'
E = 6.68'
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA = 320+55.56
P.T. STA = 326+02.26

STATE OF ILLINOIS)
)SS
COUNTY OF WILL)

THIS IS TO CERTIFY THAT I, KENNETH J. PESAVENTO, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, (WE, RUETTIGER, TONELLI & ASSOCIATES AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-001251,) HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 6 AND 7, TOWNSHIP 37 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 JOLIET, ILLINOIS THIS __ DAY OF _____ 202__ A.D.

_____
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3425
LICENSE EXPIRATION DATE: 11-30-2024

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

SURVEY NOTES:
1. ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.
2. BEARING, DISTANCES, AND COORDINATES SHOWN HEREON REFERENCE THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 AS PROVIDED BY ILLINOIS DEPARTMENT OF TRANSPORTATION.
3. ALL MEASURED AND CALCULATED DISTANCES ARE "GROUND".
4. AREAS SHOWN ON THIS PLAT ARE "GROUND".
5. FIELD SURVEY COMPLETED ON MARCH 9, 2020.

Ruettiger, Tonelli & Associates, Inc.
Surveyors • Engineers • Planners • Landscape Architects • G.I.S. Consultants
129 CAPISTA DRIVE • SHOREWOOD, ILLINOIS 60404
PH. (815) 744-6600 FAX (815) 744-0101
website: www.ruettigertonelli.com

R.T. & A. Dwg. No.: 2020-0183

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
IL 171

LIMITS: AT 95th STREET COUNTY: COOK
SECTION: _____ JOB NO.: R-90-006-05
STA. 315+00 TO STA. 321+38.96
SCALE: 1"=30' SHEET 50 OF 135 SHEETS

IDOT USE ONLY

APPROVED
By William Wright at 12:56 pm, Dec 02, 2022

REVISION DATE: __/__/____ REVISION MADE BY: _____

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

PART OF THE SE.1/4 OF SECTION 6 AND PART OF THE NE.1/4 OF SECTION 7, TWP.37 N., R.12E. OF THE 3RD. P.M., IN COOK COUNTY, ILLINOIS.

PROJECT COORDINATES
ILLINOIS STATE PLANE, EAST ZONE, NAD83

IL ROUTE 171

PT#	STATION	OFFSET	NORTH	EAST
57	325+45.13	72.57	1839734.534	1103245.580
301	323+28.91	6.68	1839713.161	1103019.103
515	331+90.05	271.27	1839814.351	1103916.483
519	306+83.32	-563.83	1839731.060	1101279.488
522	323+28.91	-26.36	1839743.982	1103007.200
523	324+40.01	-30.66	1839788.825	1103108.323
9003	326+02.26	0.00	1839824.059	1103269.186
9005	325+03.33	0.00	1839784.754	1103178.395
9019	323+28.90	-43.38	1839759.857	1103001.061
9020	323+28.91	-33.37	1839750.518	1103004.672
9022	325+99.95	-40.00	1839859.694	1103250.870
9023	325+99.93	-50.00	1839868.832	1103246.808
9024	325+99.90	-74.59	1839891.305	1103236.817
9025	325+99.89	-85.00	1839900.814	1103232.590
9026	327+99.92	-85.14	1839982.020	1103415.362
9027	327+99.93	-74.78	1839972.549	1103419.572
9028	327+99.95	-50.00	1839949.907	1103429.638
9029	327+99.96	-40.00	1839940.769	1103433.700
9063	326+76.38	184.88	1839685.095	1103411.887
9065	326+32.76	278.59	1839581.749	1103410.005
9067	327+15.70	135.65	1839746.044	1103427.877
9068	327+33.59	153.11	1839737.326	1103451.307
9069	326+72.04	245.54	1839627.888	1103432.509
9070	326+57.11	238.84	1839627.960	1103416.146
9071	326+42.40	281.29	1839583.190	1103419.906
9091	322+41.97	82.72	1839611.082	1102963.962
9092	322+43.49	78.20	1839615.856	1102963.838
9093	322+38.89	76.48	1839615.856	1102958.874
9094	322+49.39	64.15	1839631.103	1102964.573
9095	322+19.79	54.99	1839629.398	1102933.337
9200	324+22.47	-37.13	1839788.237	1103089.731
9202	326+97.34	198.50	1839681.140	1103436.573

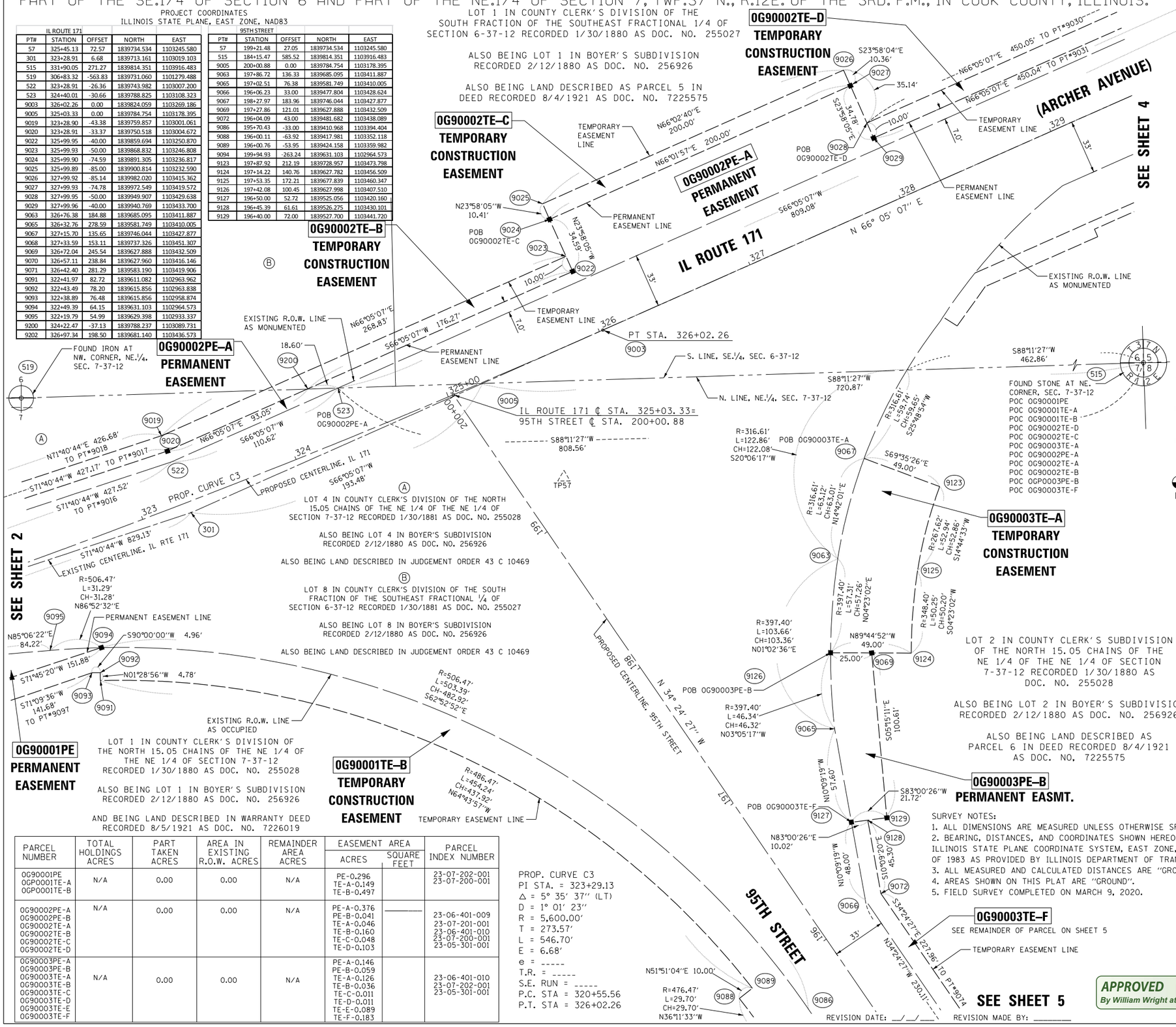
95TH STREET

PT#	STATION	OFFSET	NORTH	EAST
57	199+21.48	27.05	1839734.534	1103245.580
515	184+15.47	585.52	1839814.351	1103916.483
9005	200+00.88	0.00	1839784.754	1103178.395
9063	197+86.72	136.33	1839685.095	1103411.887
9065	197+02.51	76.38	1839581.749	1103410.005
9066	196+06.23	33.00	1839477.804	1103428.624
9067	198+27.97	183.96	1839746.044	1103427.877
9069	197+27.86	121.01	1839627.888	1103432.509
9072	196+04.09	43.00	1839481.682	1103438.089
9086	195+70.43	-33.00	1839410.968	1103394.404
9088	196+00.11	-63.92	1839417.981	1103352.118
9089	196+00.76	-53.95	1839424.158	1103359.982
9094	199+94.93	-263.24	1839631.103	1102964.573
9123	197+87.92	212.19	1839728.957	1103473.798
9124	197+14.22	140.76	1839627.782	1103456.509
9125	197+53.35	172.21	1839677.839	1103460.347
9126	197+42.08	100.45	1839627.998	1103407.510
9127	196+50.00	52.72	1839525.056	1103420.160
9128	196+45.39	61.61	1839526.275	1103430.101
9129	196+40.00	72.00	1839527.700	1103441.720

LOT 1 IN COUNTY CLERK'S DIVISION OF THE SOUTH FRACTION OF THE SOUTHEAST FRACTIONAL 1/4 OF SECTION 6-37-12 RECORDED 1/30/1880 AS DOC. NO. 255027

ALSO BEING LOT 1 IN BOYER'S SUBDIVISION RECORDED 2/12/1880 AS DOC. NO. 256926

ALSO BEING LAND DESCRIBED AS PARCEL 5 IN DEED RECORDED 8/4/1921 AS DOC. NO. 7225575



PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT AREA SQUARE FEET	PARCEL INDEX NUMBER
0G90001PE 0GP0001TE-A 0GP0001TE-B	N/A	0.00	0.00	N/A	PE-0.296 TE-A-0.149 TE-B-0.497		23-07-202-001 23-07-200-001
0G90002PE-A 0G90002PE-B 0G90002TE-A 0G90002TE-B 0G90002TE-C 0G90002TE-D	N/A	0.00	0.00	N/A	PE-A-0.376 PE-B-0.041 TE-A-0.046 TE-B-0.160 TE-C-0.048 TE-D-0.103		23-06-401-009 23-07-201-001 23-06-401-010 23-07-200-001 23-05-301-001
0G90003PE-A 0G90003PE-B 0G90003TE-A 0G90003TE-B 0G90003TE-C 0G90003TE-D 0G90003TE-E 0G90003TE-F	N/A	0.00	0.00	N/A	PE-A-0.146 PE-B-0.059 TE-A-0.126 TE-B-0.036 TE-C-0.011 TE-D-0.011 TE-E-0.089 TE-F-0.183		23-06-401-010 23-07-202-001 23-05-301-001

PROP. CURVE C3
PI STA. = 323+29.13
Δ = 5° 35' 37" (LT)
D = 1° 01' 23"
R = 5,600.00'
T = 273.57'
L = 546.70'
E = 6.68'
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA = 320+55.56
P.T. STA = 326+02.26

LEGEND

SECTION CORNER
QUARTER SECTION CORNER
GRAPHIC SCALE FEET
SCALE: 1"= 30'

- SECTION / QUARTER SECTION LINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- EXISTING EASEMENT
- PROPOSED EASEMENT
- EXISTING ACCESS CONTROL LINE
- PROPOSED ACCESS CONTROL LINE
- 129.32' MEASURED DIMENSION
- 129.32' (COMP) COMPUTED DIMENSION
- (129.32') RECORDED DIMENSION
- EXISTING BUILDING

BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM,NAD83,EAST ZONE AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

- ○ IRON PIPE OR ROD FOUND
- + CUT CROSS FOUND OR 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.
- ■ M 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.
- ⊕ "MAG" NAIL SET
- ● 5 / 8" REBAR SET
- PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 667101.02 (TO BE SET BY OTHERS)
- □ RIGHT OF WAY STAKING PROPOSED TO BE SET

STATE OF ILLINOIS)
)SS
COUNTY OF WILL)

THIS IS TO CERTIFY THAT I, KENNETH J. PESAVENTO, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, (WE, RUETTIGER, TONELLI & ASSOCIATES AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-001251,) HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 6 AND 7, TOWNSHIP 37 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 JOLIET, ILLINOIS THIS __ DAY OF _____ 202_ A.D.

_____
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3425
LICENSE EXPIRATION DATE: 11-30-2024

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

SURVEY NOTES:
1. ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.
2. BEARING, DISTANCES, AND COORDINATES SHOWN HEREON REFERENCE THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 AS PROVIDED BY ILLINOIS DEPARTMENT OF TRANSPORTATION.
3. ALL MEASURED AND CALCULATED DISTANCES ARE "GROUND".
4. AREAS SHOWN ON THIS PLAT ARE "GROUND".
5. FIELD SURVEY COMPLETED ON MARCH 9, 2020.

Ruettiger, Tonelli & Associates, Inc.
Surveyors • Engineers • Planners • Landscape Architects • G.I.S. Consultants
129 CAPISTA DRIVE • SHOREWOOD, ILLINOIS 60404
PH. (815) 744-6600 FAX (815) 744-0101
website: www.ruettigertonelli.com

R.T. & A. Dwg. No.: 2020-0183

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
IL 171

LIMITS: AT 95th STREET — COUNTY: COOK
SECTION: _____ — JOB NO.: R-90-006-05
STA. 322+19.79 TO STA. 327+99.96
SCALE: 1"=30' — SHEET 51 OF 135 SHEETS

IDOT USE ONLY

APPROVED
By William Wright at 12:56 pm, Dec 02, 2022

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

REVISION DATE: __/__/__ REVISION MADE BY: _____

PART OF THE SE.1/4 OF SECTION 6 AND PART OF THE SW.1/4 OF SECTION 5, TWP.37 N., R.12E. OF THE 3RD. P.M., IN COOK COUNTY, ILLINOIS.

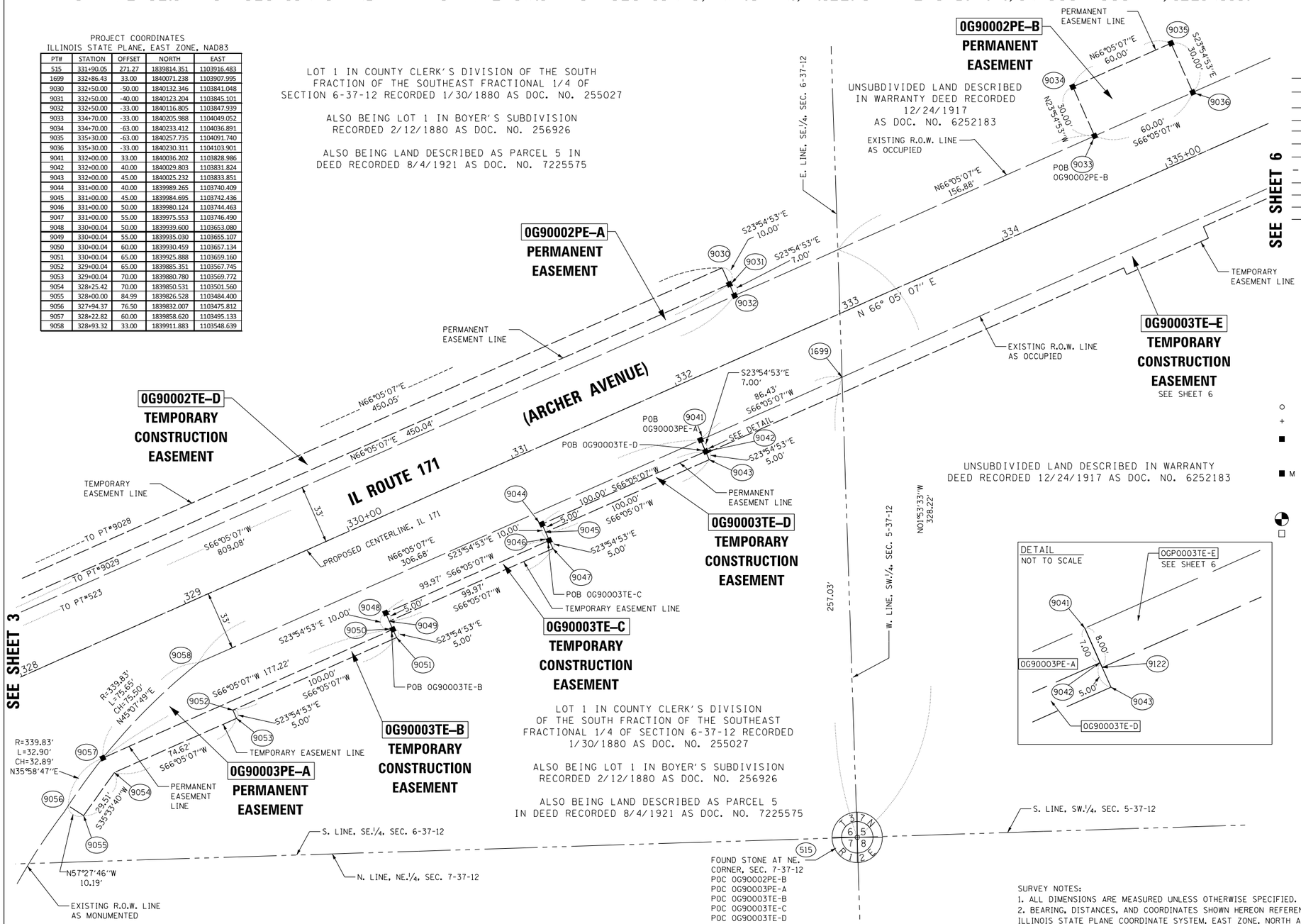
PROJECT COORDINATES
ILLINOIS STATE PLANE, EAST ZONE, NAD83

PT#	STATION	OFFSET	NORTH	EAST
515	331+90.05	271.27	1839814.351	1103916.483
1699	332+86.43	33.00	1840071.238	1103907.995
9030	332+50.00	-50.00	1840132.346	1103841.048
9031	332+50.00	-40.00	1840123.204	1103845.101
9032	332+50.00	-33.00	1840116.805	1103847.939
9033	334+70.00	-33.00	1840205.988	1104049.052
9034	334+70.00	-63.00	1840233.412	1104036.891
9035	335+30.00	-63.00	1840257.735	1104091.740
9036	335+30.00	-33.00	1840230.311	1104103.901
9041	332+00.00	33.00	1840036.202	1103828.986
9042	332+00.00	40.00	1840029.803	1103831.824
9043	332+00.00	45.00	1840025.232	1103833.851
9044	331+00.00	40.00	1839989.265	1103740.409
9045	331+00.00	45.00	1839984.695	1103742.436
9046	331+00.00	50.00	1839980.124	1103744.463
9047	331+00.00	55.00	1839975.553	1103746.490
9048	330+00.04	50.00	1839939.600	1103653.080
9049	330+00.04	55.00	1839935.030	1103655.107
9050	330+00.04	60.00	1839930.459	1103657.134
9051	330+00.04	65.00	1839925.888	1103659.160
9052	329+00.04	65.00	1839885.351	1103567.745
9053	329+00.04	70.00	1839880.780	1103569.772
9054	328+25.42	70.00	1839850.531	1103501.560
9055	328+00.00	84.99	1839826.528	1103484.400
9056	327+94.37	76.50	1839832.007	1103475.812
9057	328+22.82	60.00	1839858.620	1103495.133
9058	328+93.32	33.00	1839911.883	1103548.639

LOT 1 IN COUNTY CLERK'S DIVISION OF THE SOUTH FRACTION OF THE SOUTHEAST FRACTIONAL 1/4 OF SECTION 6-37-12 RECORDED 1/30/1880 AS DOC. NO. 255027

ALSO BEING LOT 1 IN BOYER'S SUBDIVISION RECORDED 2/12/1880 AS DOC. NO. 256926

ALSO BEING LAND DESCRIBED AS PARCEL 5 IN DEED RECORDED 8/4/1921 AS DOC. NO. 7225575



LOT 1 IN COUNTY CLERK'S DIVISION OF THE SOUTH FRACTION OF THE SOUTHEAST FRACTIONAL 1/4 OF SECTION 6-37-12 RECORDED 1/30/1880 AS DOC. NO. 255027

ALSO BEING LOT 1 IN BOYER'S SUBDIVISION RECORDED 2/12/1880 AS DOC. NO. 256926

ALSO BEING LAND DESCRIBED AS PARCEL 5 IN DEED RECORDED 8/4/1921 AS DOC. NO. 7225575

LOT 2 IN COUNTY CLERKS' DIVISION OF THE NORTH 15.05 CHAINS OF THE NE 1/4 OF THE NE 1/4 OF SECTION 7-37-12 RECORDED 1/30/1880 AS DOC. NO. 255028

ALSO BEING LOT 2 IN BOYER'S SUBDIVISION RECORDED 2/12/1880 AS DOC. NO. 256926

ALSO BEING LAND DESCRIBED AS PARCEL 6 IN DEED RECORDED 8/4/1921 AS DOC. NO. 7225575

LEGEND

SECTION CORNER
QUARTER SECTION CORNER

- SECTION / QUARTER SECTION LINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- EXISTING EASEMENT
- PROPOSED EASEMENT
- EXISTING ACCESS CONTROL LINE
- PROPOSED ACCESS CONTROL LINE
- 129.32' MEASURED DIMENSION
- 129.32' (COMP) COMPUTED DIMENSION
- (129.32') RECORDED DIMENSION
- EXISTING BUILDING

N

GRAPHIC SCALE FEET
0 30
SCALE: 1"= 30'

BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM.NAD83.EAST ZONE AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

- ○ 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.
- ■ M 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

DETAIL
NOT TO SCALE

STATE OF ILLINOIS)
)SS
COUNTY OF WILL)

THIS IS TO CERTIFY THAT I, KENNETH J. PESAVENTO, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, (WE, RUETTIGER, TONELLI & ASSOCIATES AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-001251,) HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 5 AND 6, TOWNSHIP 37 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 JOLIET, ILLINOIS THIS __ DAY OF _____ 202_ A.D.

_____
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3425
LICENSE EXPIRATION DATE: 11-30-2024

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT ACRES	AREA SQUARE FEET	PARCEL INDEX NUMBER
0G90002PE-A 0G90002PE-B 0G90002TE-A 0G90002TE-B 0G90002TE-C 0G90002TE-D	N/A	0.00	0.00	N/A	PE-A-0.376 PE-B-0.041 TE-A-0.046 TE-B-0.160 TE-C-0.048 TE-D-0.103		23-06-401-009 23-07-201-001 23-06-401-010 23-05-301-001 23-07-200-001
0G90003PE-A 0G90003PE-B 0G90003TE-A 0G90003TE-B 0G90003TE-C 0G90003TE-D 0G90003TE-E 0G90003TE-F	N/A	0.00	0.00	N/A	PE-A-0.146 PE-B-0.059 TE-A-0.126 TE-B-0.036 TE-C-0.011 TE-D-0.011 TE-E-0.089 TE-F-0.183		23-06-401-010 23-07-202-001 23-05-301-001

SURVEY NOTES:
1. ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.
2. BEARING, DISTANCES, AND COORDINATES SHOWN HEREON REFERENCE THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 AS PROVIDED BY ILLINOIS DEPARTMENT OF TRANSPORTATION.
3. ALL MEASURED AND CALCULATED DISTANCES ARE "GROUND".
4. AREAS SHOWN ON THIS PLAT ARE "GROUND".
5. FIELD SURVEY COMPLETED ON MARCH 9, 2020.

Ruettiger, Tonelli & Associates, Inc.
Surveyors • Engineers • Planners • Landscape Architects • G.I.S. Consultants
129 CAPISTA DRIVE • SHOREWOOD, ILLINOIS 60404
PH. (815) 744-6600 FAX (815) 744-0101
website: www.ruettigertonelli.com

R.T. & A. Dwg. No.: 2020-0183

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
IL 171

LIMITS: AT 95th STREET — COUNTY: COOK
SECTION: _____ — JOB NO.: R-90-006-05
STA. 327+94.37 TO STA. 335+30.00
SCALE: 1"=30' — SHEET 52 OF 135 SHEETS

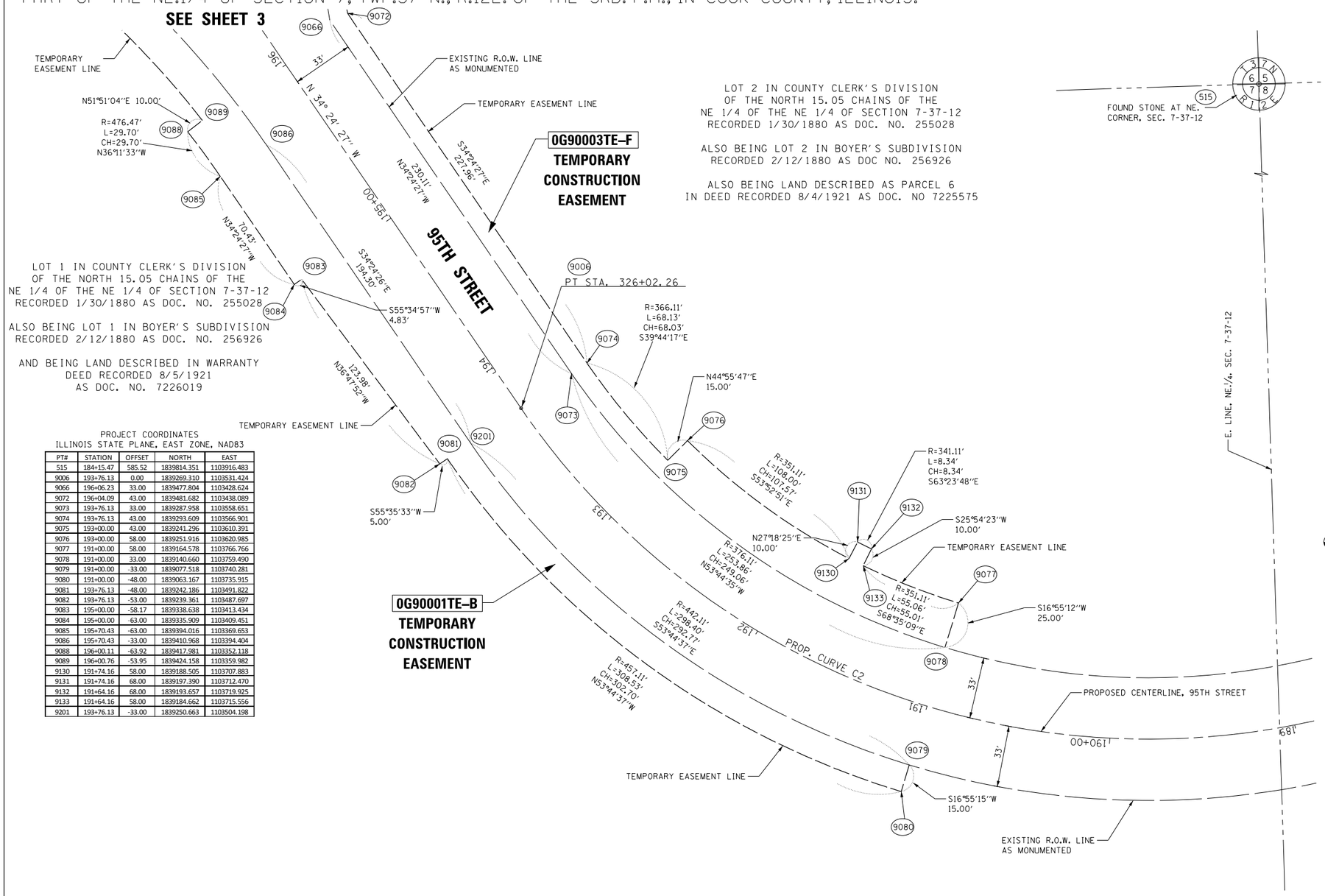
IDOT USE ONLY

APPROVED
By William Wright at 12:56 pm, Dec 02, 2022

REVISION DATE: __/__/____ REVISION MADE BY: _____

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

PART OF THE NE.1/4 OF SECTION 7, TWP.37 N., R.12E. OF THE 3RD. P.M., IN COOK COUNTY, ILLINOIS.



PROJECT COORDINATES
ILLINOIS STATE PLANE, EAST ZONE, NAD83

PT#	STATION	OFFSET	NORTH	EAST
515	184+15.47	585.52	1839814.351	1103916.483
9006	193+76.13	0.00	1839269.310	1103531.424
9066	196+06.23	33.00	1839477.804	1103428.624
9072	196+04.09	43.00	1839481.682	1103438.089
9073	193+76.13	33.00	1839287.958	1103558.651
9074	193+76.13	43.00	1839293.609	1103566.901
9075	193+00.00	43.00	1839241.296	1103610.391
9076	193+00.00	58.00	1839251.916	1103620.985
9077	191+00.00	58.00	1839164.578	1103766.766
9078	191+00.00	33.00	1839140.660	1103759.490
9079	191+00.00	-33.00	1839077.518	1103740.281
9080	191+00.00	-48.00	1839063.167	1103735.915
9081	193+76.13	-48.00	1839242.186	1103491.822
9082	193+76.13	-53.00	1839239.361	1103487.697
9083	195+00.00	-58.17	1839338.638	1103413.434
9084	195+00.00	-63.00	1839335.909	1103409.451
9085	195+70.43	-63.00	1839394.016	1103369.653
9086	195+70.43	-33.00	1839410.968	1103394.404
9088	196+00.11	-63.92	1839417.981	1103352.118
9089	196+00.76	-53.95	1839424.158	1103359.982
9130	191+74.16	58.00	1839188.505	1103707.883
9131	191+74.16	68.00	1839197.390	1103712.470
9132	191+64.16	68.00	1839193.657	1103719.925
9133	191+64.16	58.00	1839184.662	1103715.556
9201	193+76.13	-33.00	1839250.663	1103504.198

LEGEND

SECTION CORNER
QUARTER SECTION CORNER

- SECTION / QUARTER SECTION LINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- EXISTING EASEMENT
- PROPOSED EASEMENT
- EXISTING ACCESS CONTROL LINE
- PROPOSED ACCESS CONTROL LINE
- 129.32' MEASURED DIMENSION
- 129.32' (COMP) COMPUTED DIMENSION
- (129.32') RECORDED DIMENSION
- EXISTING BUILDING

GRAPHIC SCALE FEET
SCALE: 1"= 30'

BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM,NAD83,EAST ZONE AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

- ○ IRON PIPE OR ROD FOUND
- + CUT CROSS FOUND OR SET
- ⊕ "MAG" NAIL 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.
- ■ M 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

STATE OF ILLINOIS)
)SS
COUNTY OF WILL)

THIS IS TO CERTIFY THAT I, KENNETH J. PESAVENTO, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, (WE, RUETTIGER, TONELLI & ASSOCIATES AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-001251,) HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 7, TOWNSHIP 37 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 JOLIET, ILLINOIS THIS __ DAY OF _____ 202__ A.D.

_____
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3425
LICENSE EXPIRATION DATE: 11-30-2024

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT AREA SQUARE FEET	PARCEL INDEX NUMBER
0G90001PE 0GP0001TE-A 0GP0001TE-B	N/A	0.00	0.00	N/A	PE-0.296 TE-A-0.149 TE-B-0.497	_____	23-07-202-001 23-07-200-001
0G90002PE-A 0G90002PE-B 0G90002TE-A 0G90002TE-B 0G90002TE-C 0G90002TE-D	N/A	0.00	0.00	N/A	PE-A-0.376 PE-B-0.041 TE-A-0.046 TE-B-0.160 TE-C-0.048 TE-D-0.103	_____ _____ _____ _____	23-06-401-009 23-07-201-001 23-06-401-010 23-07-200-001 23-05-301-001
0G90003PE-A 0G90003PE-B 0G90003TE-A 0G90003TE-B 0G90003TE-C 0G90003TE-D 0G90003TE-E 0G90003TE-F	N/A	0.00	0.00	N/A	PE-A-0.146 PE-B-0.059 TE-A-0.126 TE-B-0.036 TE-C-0.011 TE-D-0.011 TE-E-0.089 TE-F-0.183	_____ _____ _____ _____	23-06-401-010 23-07-202-001 23-05-301-001

PROP. CURVE C2
PI STA. = 191+57.16
Δ = 103° 59' 48" (RT)
D = 14° 00' 18"
R = 409.11'
T = 523.61'
L = 742.57'
E = 255.37'
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA = 186+33.56
P.T. STA = 193+76.13

SURVEY NOTES:
1. ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.
2. BEARING, DISTANCES, AND COORDINATES SHOWN HEREON REFERENCE THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 AS PROVIDED BY ILLINOIS DEPARTMENT OF TRANSPORTATION.
3. ALL MEASURED AND CALCULATED DISTANCES ARE "GROUND".
4. AREAS SHOWN ON THIS PLAT ARE "GROUND".
5. FIELD SURVEY COMPLETED ON MARCH 9, 2020.

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website: www.ruettigertonelli.com

R.T. & A. Dwg. No.: 2020-0183

PLAT OF HIGHWAYS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
IL 171

LIMITS: AT 95th STREET — COUNTY: COOK
SECTION: _____ — JOB NO.: R-90-006-05
STA. 189+00 TO STA. 196+04.09
SCALE: 1"=30' — SHEET 53 OF 135 SHEETS

IDOT USE ONLY

APPROVED
By William Wright at 12:56 pm, Dec 02, 2022

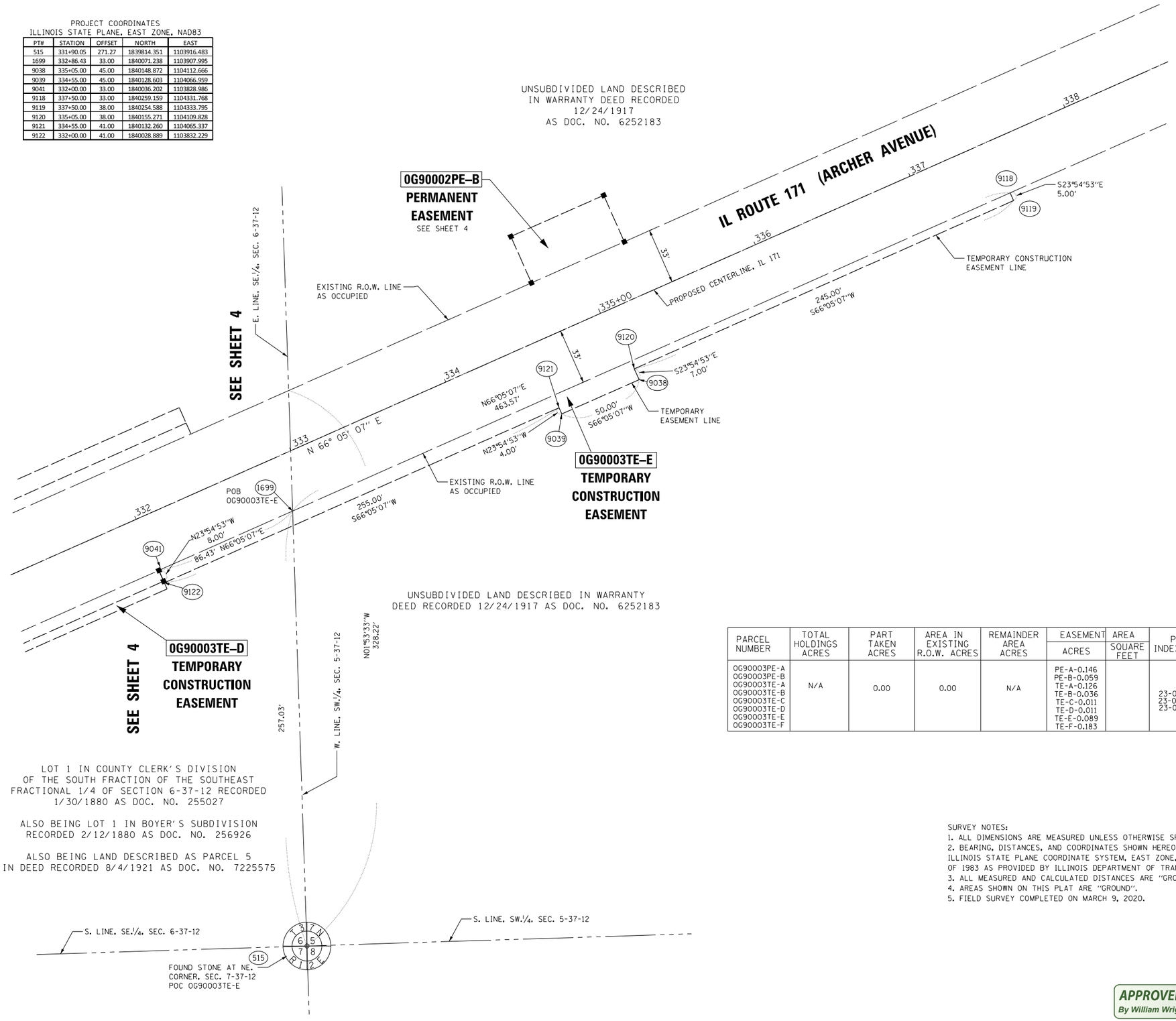
REVISION DATE: __/__/___ REVISION MADE BY: _____

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

PART OF THE SE.1/4 OF SECTION 6 AND PART OF THE SW.1/4 OF SECTION 5, TWP.37 N., R.12E. OF THE 3RD. P.M., IN COOK COUNTY, ILLINOIS.

PROJECT COORDINATES
ILLINOIS STATE PLANE, EAST ZONE, NAD83

PT#	STATION	OFFSET	NORTH	EAST
515	331+90.05	271.27	1839814.351	1103916.483
1699	332+86.43	33.00	1840071.238	1103907.995
9038	335+05.00	45.00	1840148.872	1104112.666
9039	334+55.00	45.00	1840128.603	1104066.959
9041	332+00.00	33.00	1840036.202	1103828.986
9118	337+50.00	33.00	1840259.159	1104331.768
9119	337+50.00	38.00	1840254.588	1104333.795
9120	335+05.00	38.00	1840155.271	1104109.828
9121	334+55.00	41.00	1840132.260	1104065.337
9122	332+00.00	41.00	1840028.889	1103832.229



LEGEND

SECTION CORNER

QUARTER SECTION CORNER

GRAPHIC SCALE FEET

SCALE: 1"= 30'

	SECTION / QUARTER SECTION LINE
	PLATTED LOT LINES
	PROPERTY (DEED) LINE
APL	APPARENT PROPERTY LINE
	EXISTING CENTERLINE
	PROPOSED CENTERLINE
	EXISTING RIGHT OF WAY LINE
	PROPOSED RIGHT OF WAY LINE
	EXISTING EASEMENT
	PROPOSED EASEMENT
AC	EXISTING ACCESS CONTROL LINE
AC	PROPOSED ACCESS CONTROL LINE
129.32'	MEASURED DIMENSION
129.32' (COMP)	COMPUTED DIMENSION
(129.32')	RECORDED DIMENSION
	EXISTING BUILDING

BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM,NAD83,EAST ZONE AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

○	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.

■ M 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

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT ACRES	AREA SQUARE FEET	PARCEL INDEX NUMBER
0G90003PE-A 0G90003PE-B 0G90003TE-A 0G90003TE-B 0G90003TE-C 0G90003TE-D 0G90003TE-E 0G90003TE-F	N/A	0.00	0.00	N/A	PE-A-0.146 PE-B-0.059 TE-A-0.126 TE-B-0.036 TE-C-0.011 TE-D-0.011 TE-E-0.089 TE-F-0.183		23-06-401-010 23-07-202-001 23-05-301-001

STATE OF ILLINOIS)
)SS
COUNTY OF WILL)

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DATED AT JOLIET, ILLINOIS THIS __ DAY OF _____ 202__ A.D.

_____
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3425
LICENSE EXPIRATION DATE: 11-30-2024

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

SURVEY NOTES:
1. ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.
2. BEARING, DISTANCES, AND COORDINATES SHOWN HEREON REFERENCE THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 AS PROVIDED BY ILLINOIS DEPARTMENT OF TRANSPORTATION.
3. ALL MEASURED AND CALCULATED DISTANCES ARE "GROUND".
4. AREAS SHOWN ON THIS PLAT ARE "GROUND".
5. FIELD SURVEY COMPLETED ON MARCH 9, 2020.

Ruettiger, Tonelli & Associates, Inc.
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PH. (815) 744-6600 FAX (815) 744-0101
website: www.ruettigertonelli.com

R.T. & A. Dwg. No.: 2020-0183

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
IL 171

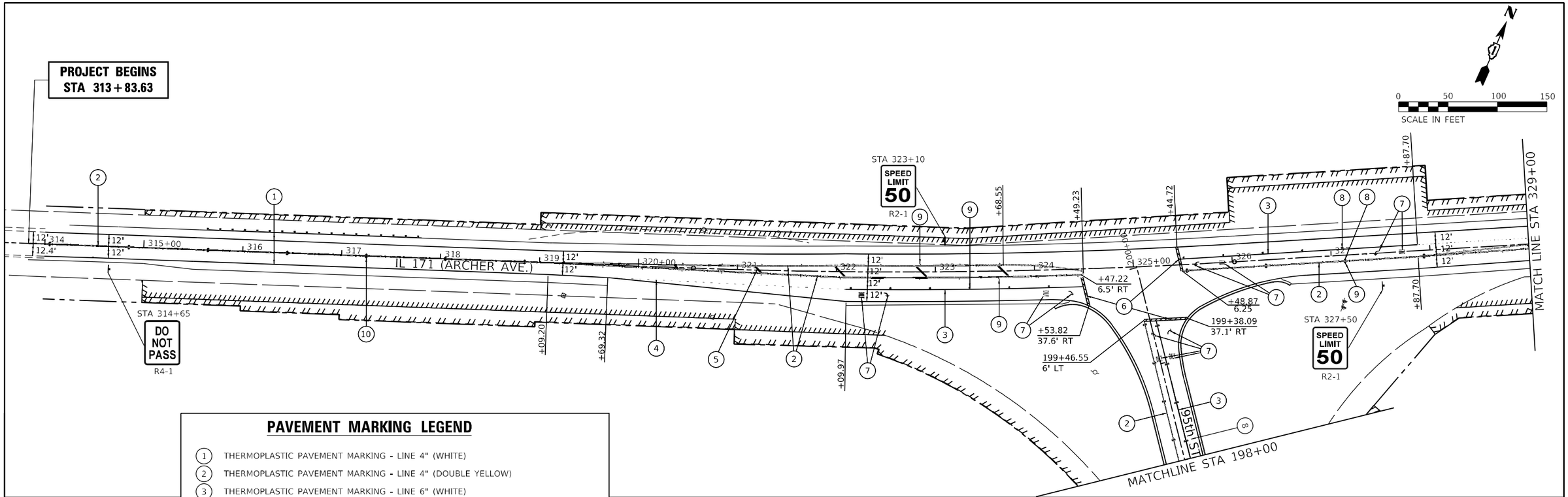
LIMITS: AT 95th STREET — COUNTY: COOK
SECTION: _____ — JOB NO.: R-90-006-05
STA. 335+30.00 TO STA. 337+50.00
SCALE: 1"=30' — SHEET 54 OF 135 SHEETS

IDOT USE ONLY

APPROVED
By William Wright at 12:56 pm, Dec 02, 2022

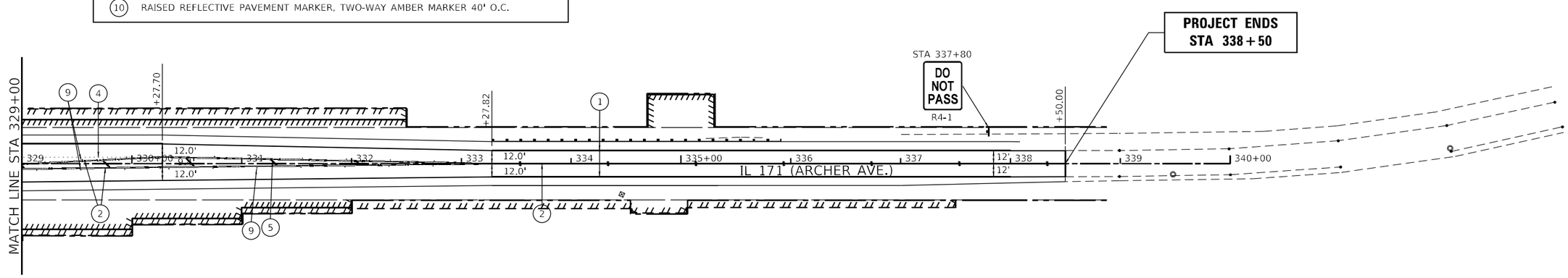
BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

REVISION DATE: __/__/____ REVISION MADE BY: _____



PAVEMENT MARKING LEGEND

1. THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE)
2. THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW)
3. THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE)
4. THERMOPLASTIC PAVEMENT MARKING - LINE 6" 2' DASH-6' SKIP (WHITE)
5. THERMOPLASTIC PAVEMENT MARKING - LINE 12" DIAGONAL AT 150° O.C. (YELLOW)
6. THERMOPLASTIC PAVEMENT MARKING - LINE 24" STOP BAR (WHITE)
7. THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (WHITE)
8. RAISED REFLECTIVE PAVEMENT MARKER, ONE-WAY CRYSTAL MARKER 2 AT 80' O.C.
9. RAISED REFLECTIVE PAVEMENT MARKER, ONE-WAY AMBER MARKER 40' O.C.
10. RAISED REFLECTIVE PAVEMENT MARKER, TWO-WAY AMBER MARKER 40' O.C.



AMES Engineering, Inc. CONSULTING ENGINEERS 6330 Belmont Road, Suite 4B Downers Grove, IL 60515	USER NAME = Srahman	DESIGNED - JAR	REVISED -
		DRAWN - MD/SR	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - AS	REVISED -
	PLOT DATE = 5/23/2025	DATE - 03/18/2025	REVISED -

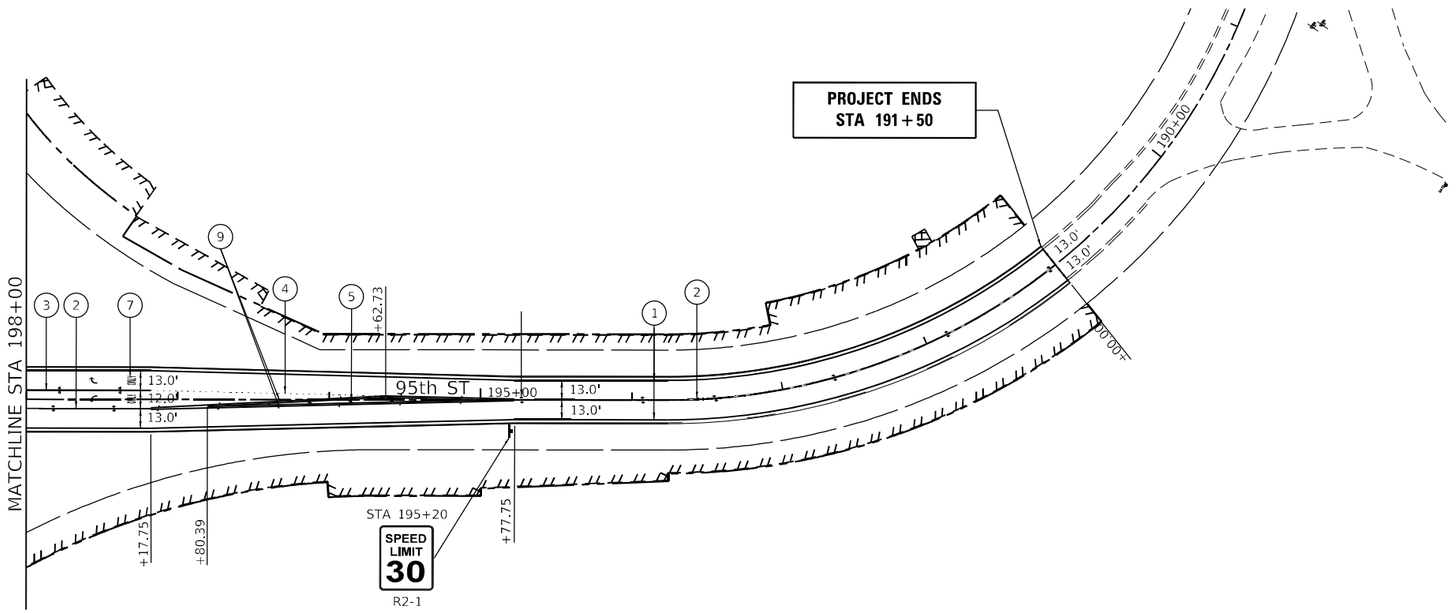
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 171 (ARCHER AVE) & 95TH ST.
PAVEMENT MARKING AND SIGNING PLAN

SCALE: 1"=50' | SHEET 1 OF 2 SHEETS | STA. 314+00 TO STA. 338+50

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	55
		CONTRACT NO. 60R94		
	ILLINOIS	FED. AID PROJECT		

MODEL: $MODELNAME
FILE NAME: D:\60R94-sht-Pmk-1.dgn



PAVEMENT MARKING LEGEND

1. THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE)
2. THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW)
3. THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE)
4. THERMOPLASTIC PAVEMENT MARKING - LINE 6" 2' DASH-6' SKIP (WHITE)
5. THERMOPLASTIC PAVEMENT MARKING - LINE 12" DIAGONAL AT 150° O.C. (YELLOW)
6. THERMOPLASTIC PAVEMENT MARKING - LINE 24" STOP BAR (WHITE)
7. THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (WHITE)
8. RAISED REFLECTIVE PAVEMENT MARKER, ONE-WAY CRYSTAL MARKER 2 AT 80' O.C.
9. RAISED REFLECTIVE PAVEMENT MARKER, ONE-WAY AMBER MARKER 40' O.C.
10. RAISED REFLECTIVE PAVEMENT MARKER, TWO-WAY AMBER MARKER 40' O.C.

MODEL: $MODELNAME$
FILE NAME: D160R94-sht-Pmk-2.dgn

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60515

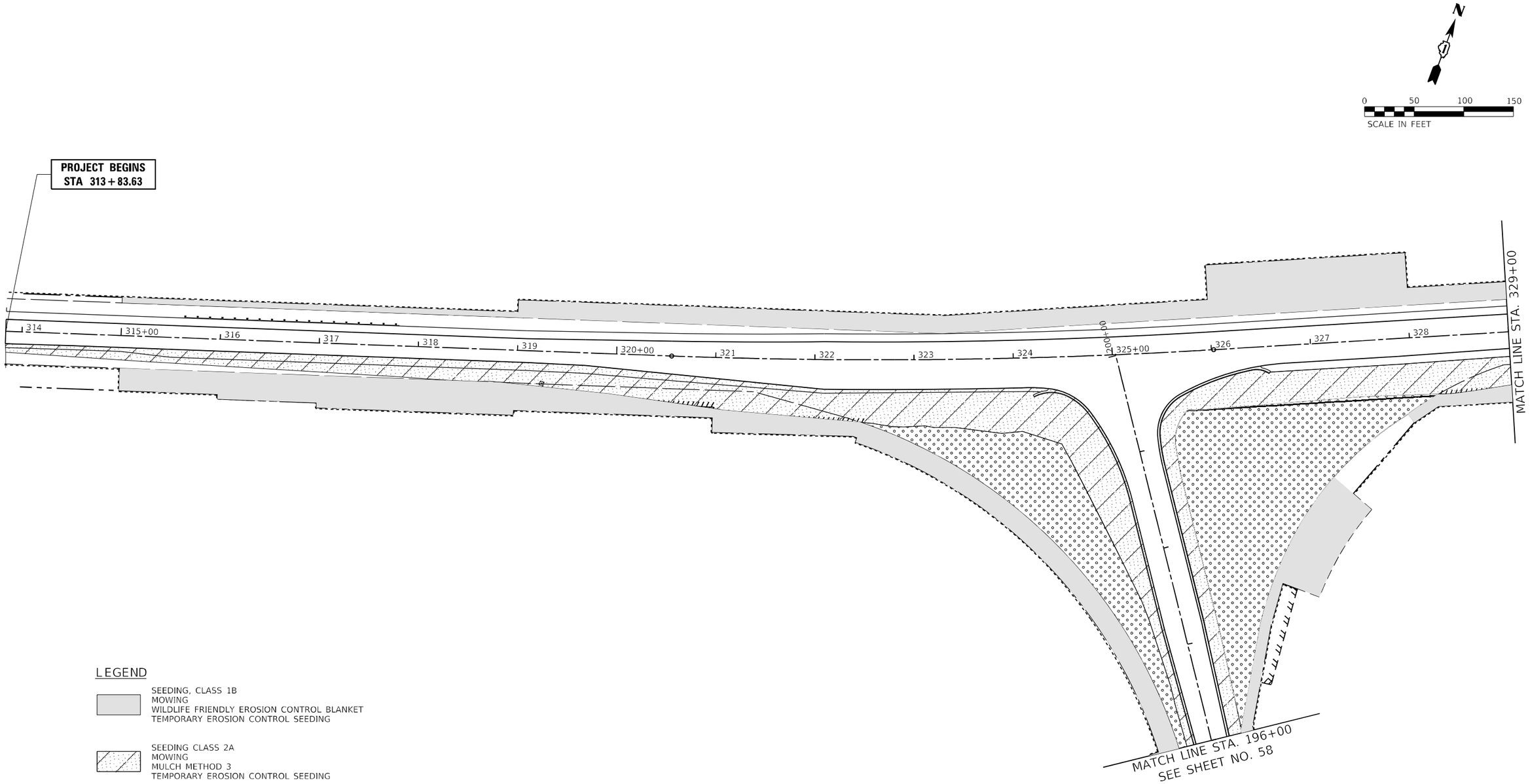
USER NAME = Srahman	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = $SCALE$	CHECKED -	REVISED -	
PLOT DATE = 5/23/2025	DATE - 03/18/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 171 (ARCHER AVE) & 95TH ST.
PAVEMENT MARKING AND SIGNING PLAN

SCALE: 1"=50' | SHEET 2 OF 2 SHEETS | STA. 191+00 TO STA. 198+00

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	56
		CONTRACT NO. 60R94		
	ILLINOIS	FED. AID PROJECT		



LEGEND

SEEDING, CLASS 1B
MOWING
WILDLIFE FRIENDLY EROSION CONTROL BLANKET
TEMPORARY EROSION CONTROL SEEDING

SEEDING CLASS 2A
MOWING
MULCH METHOD 3
TEMPORARY EROSION CONTROL SEEDING

SEEDING, CLASS 4A
MOWING
MULCH METHOD 3
TEMPORARY EROSION CONTROL SEEDING

MODEL: $MODEL$NAME
FILE NAME: D:\60R94-sht-landscaping-1.dgn

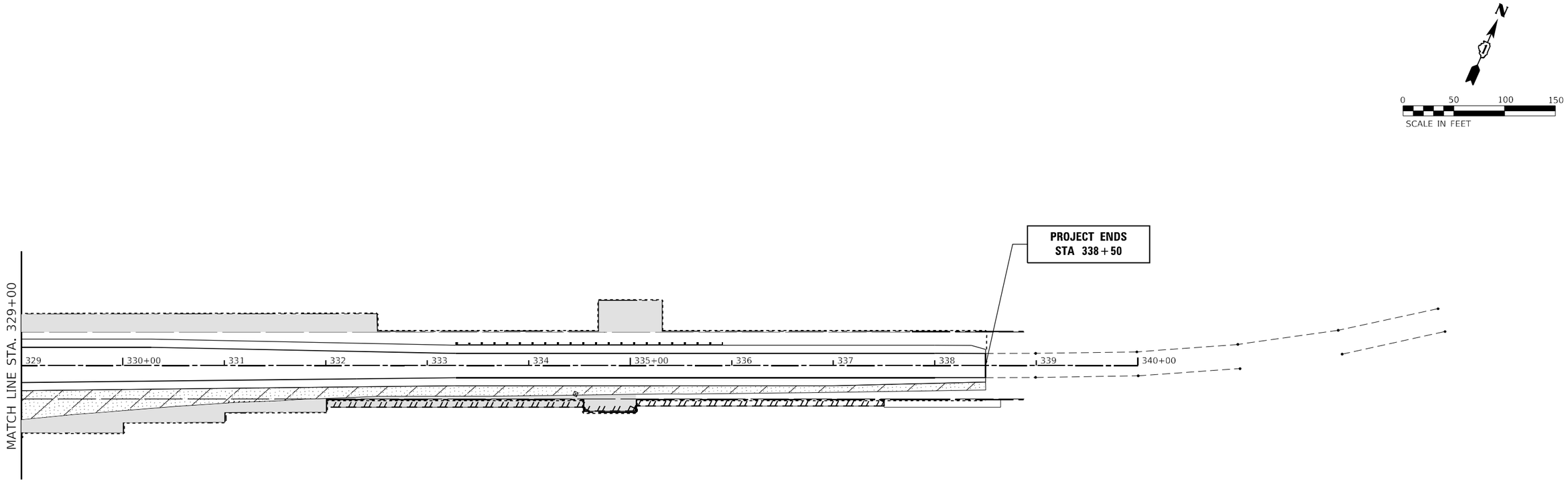
AMES Engineering, Inc. CONSULTING ENGINEERS 6330 Belmont Road, Suite 4B Downers Grove, IL 60515	USER NAME = Srahman	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = 8/29/2025	DATE - 03/18/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILL 171 (ARCHER AVE) & 95TH ST.
LANDSCAPING PLANS

SCALE: 1"=50' | SHEET 1 OF 3 SHEETS | STA. 313+83.63 TO STA. 329+00

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	57
		CONTRACT NO. 60R94		
		ILLINOIS	FED. AID PROJECT	



LEGEND

SEEDING, CLASS 1B
MOWING
WILDLIFE FRIENDLY EROSION CONTROL BLANKET
TEMPORARY EROSION CONTROL SEEDING

SEEDING CLASS 2A
MOWING
MULCH METHOD 3
TEMPORARY EROSION CONTROL SEEDING

SEEDING, CLASS 4A
MOWING
MULCH METHOD 3
TEMPORARY EROSION CONTROL SEEDING

MODEL: $MODELNAME$
FILE NAME: D160R94-sht-landscaping-2.dgn

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60515

USER NAME = Srahman	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = $SCALE$	CHECKED -	REVISED -
PLOT DATE = 8/29/2025	DATE - 03/18/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

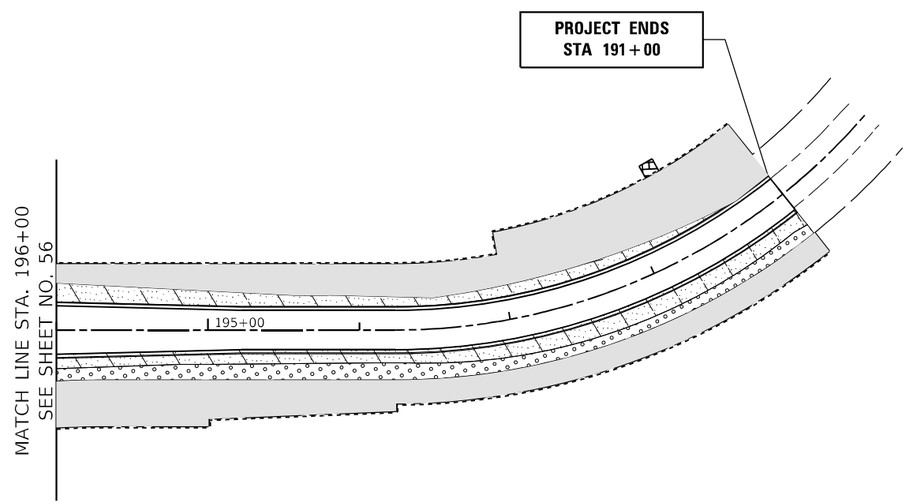
ILIL 171 (ARCHER AVE) & 95TH ST.
LANDSCAPING PLANS

SCALE: 1"=50' | SHEET 2 OF 3 SHEETS | STA. 329+00 TO STA. 338+50

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	58

CONTRACT NO. 60R94

ILLINOIS | FED. AID PROJECT



0 50 100 150
SCALE IN FEET

LEGEND

SEEDING, CLASS 1B
MOWING
WILDLIFE FRIENDLY EROSION CONTROL BLANKET
TEMPORARY EROSION CONTROL SEEDING

SEEDING CLASS 2A
MOWING
MULCH METHOD 3
TEMPORARY EROSION CONTROL SEEDING

SEEDING, CLASS 4A
MOWING
MULCH METHOD 3
TEMPORARY EROSION CONTROL SEEDING

MODEL: $MODELNAME$
FILE NAME: D160R94-sht-landscaping-3.dgn

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60515

USER NAME = Srahman	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = $SCALE$	CHECKED -	REVISED -
PLOT DATE = 8/29/2025	DATE - 03/18/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 171 (ARCHER AVE) & 95TH ST.
LANDSCAPING PLANS

SCALE: 1"=50' | SHEET 3 OF 3 SHEETS | STA. 191+50 TO STA. 200+00

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	59

CONTRACT NO. 60R94

ILLINOIS | FED. AID PROJECT

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

ITEM	EXISTING	PROPOSED
CONTROLLER CABINET		
COMMUNICATION CABINET	CC	CC
MASTER CONTROLLER	MC	MC
MASTER MASTER CONTROLLER	MMC	MMC
UNINTERRUPTABLE POWER SUPPLY		
SERVICE INSTALLATION -(P) POLE MOUNTED	P	P
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	G GM	G GM
TELEPHONE CONNECTION	T	T
STEEL MAST ARM ASSEMBLY AND POLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY		BM
WOOD POLE		
GUY WIRE		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD OPTICALLY PROGRAMMED	P P	P P
FLASHER INSTALLATION -(FS) SOLAR POWERED	F FS F FS	F FS F FS
PEDESTRIAN SIGNAL HEAD		
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON	APS	APS
RADAR DETECTION SENSOR	R	R
VIDEO DETECTION CAMERA	V	V
RADAR/VIDEO DETECTION ZONE		
PAN, TILT, ZOOM (PTZ) CAMERA	PTZ	PTZ
EMERGENCY VEHICLE LIGHT DETECTOR		
CONFIMATION BEACON		
WIRELESS INTERCONNECT		
WIRELESS INTERCONNECT RADIO REPEATER	RR	RR

ITEM	EXISTING	PROPOSED
HANDHOLE -SQUARE -ROUND		
HEAVY DUTY HANDHOLE -SQUARE -ROUND	H H	H H
DOUBLE HANDHOLE		
JUNCTION BOX	J	J
RAILROAD CANTILEVER MAST ARM		
RAILROAD FLASHING SIGNAL		
RAILROAD CROSSING GATE		
RAILROAD CROSSBUCK		
RAILROAD CONTROLLER CABINET		
UNDERGROUND CONDUIT (UC), GALVANIZED STEEL		
TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE		
SYSTEM ITEM	S	SP
INTERSECTION ITEM	I	IP
REMOVE ITEM		R
RELOCATE ITEM		RL
ABANDON ITEM		A
CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF
MAST ARM POLE AND FOUNDATION TO BE REMOVED		RMF
SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF
DETECTOR LOOP, TYPE I		
PREFORMED DETECTOR LOOP	P P	P P
SAMPLING (SYSTEM) DETECTOR	S S	S S
INTERSECTION AND SAMPLING (SYSTEM) DETECTOR	IS IS	IS IS
QUEUE AND SAMPLING (SYSTEM) DETECTOR	QS QS	QS QS
WIRELESS DETECTOR SENSOR	W	W
WIRELESS ACCESS POINT		

ITEM	EXISTING	PROPOSED
SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD	R Y G Y G P	R Y G Y G P
SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE	R Y G Y G P RB	R Y G Y G P RB
PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER	C D	C D
ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED	5	5
GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)	1#6	1#6
ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C	1	1
COAXIAL CABLE	C	C
VENDOR CABLE	V	V
COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED	6#18	6#18
FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F	12F 24F 36F	12F 24F 36F
GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE	C M P S	C M P S

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PLOT DATE = 3/4/2019	DATE - 9/29/2016	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			135	60
	TS-05	CONTRACT NO.		
		ILLINOIS	FED. AID PROJECT	

LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.

2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.

3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.

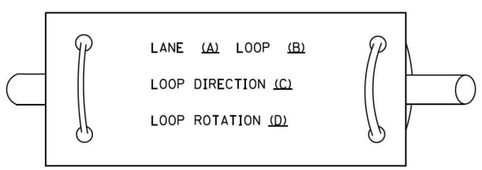
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.

6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.

7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

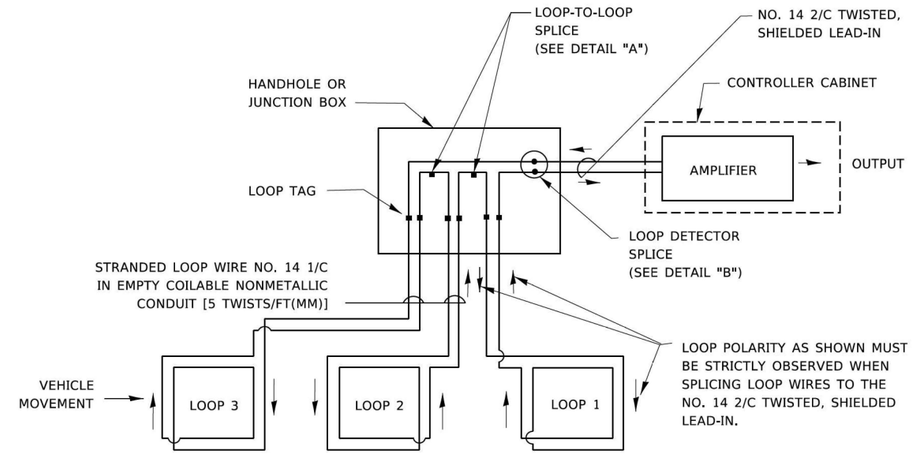


A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY

B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.

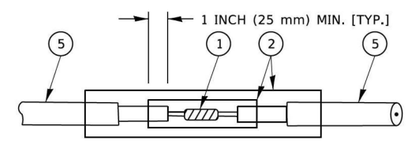
C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".

D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

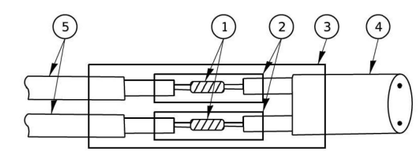


DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES. SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE,
- THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

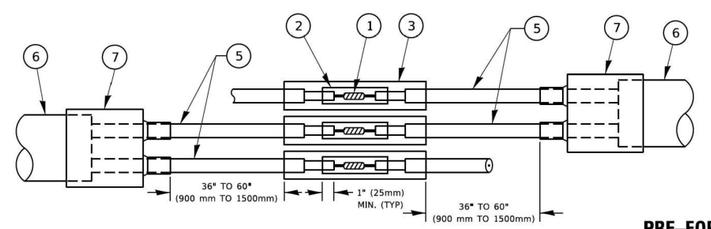


DETAIL "A"
LOOP-TO-LOOP SPLICE



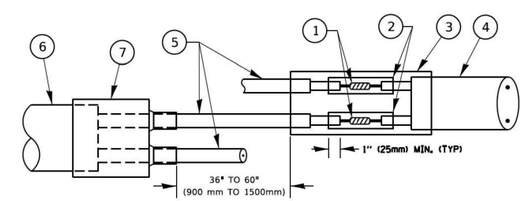
DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE

PRE-FORMED LOOP



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

1. WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
2. WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
3. WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.
4. NO. 14 2/C TWISTED, SHIELDED CABLE.
5. LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE. PRE-FORMED LOOP
6. XL POLYOLEFIN 2 CONDUCTOR
7. BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

TS SHT NO. 2

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PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 3/4/2019	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

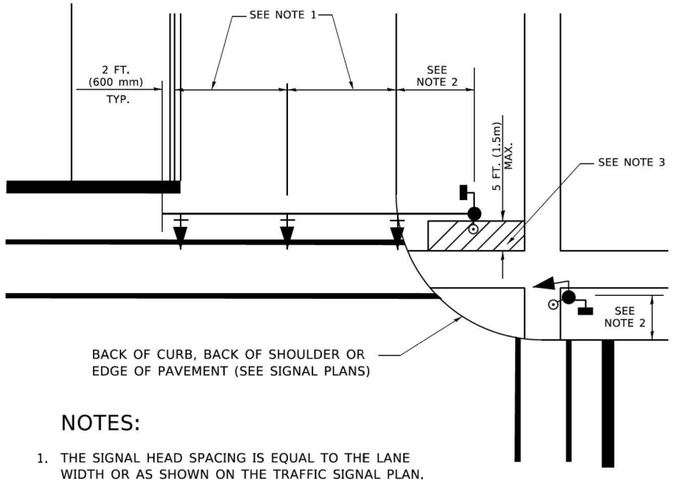
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 2 OF 7 SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			135	61
	TS-05	CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

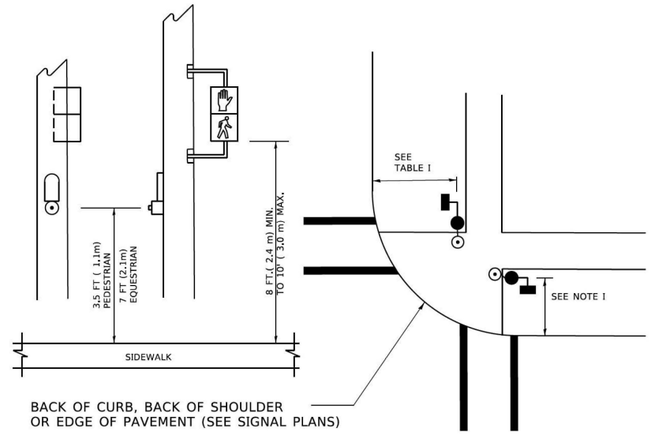
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

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

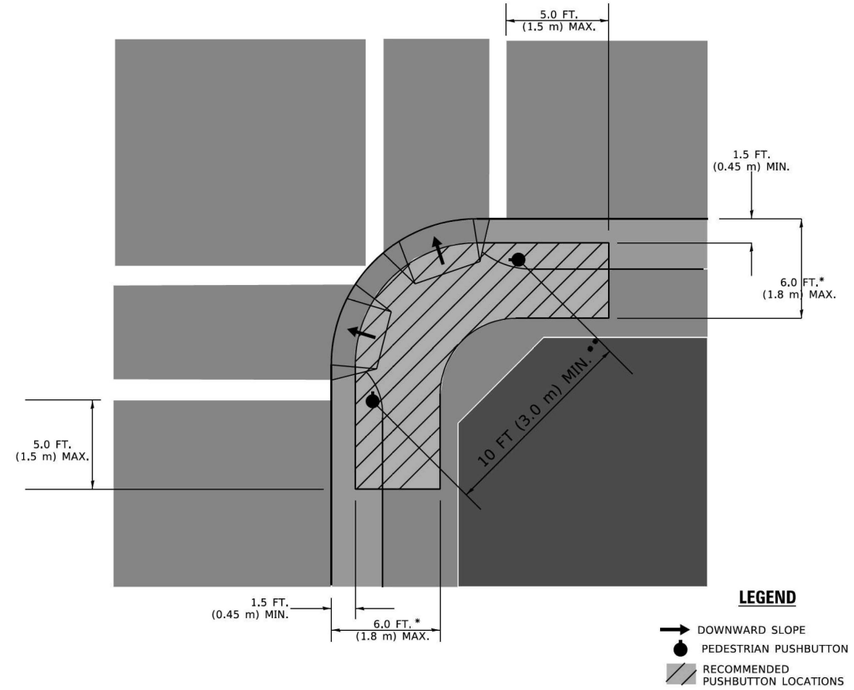
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

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

RECOMMENDED PUSHBUTTON LOCATIONS



* WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.

** WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

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

TRAFFIC SIGNAL EQUIPMENT OFFSET

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

NOTES:

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

TS SHT NO. 3

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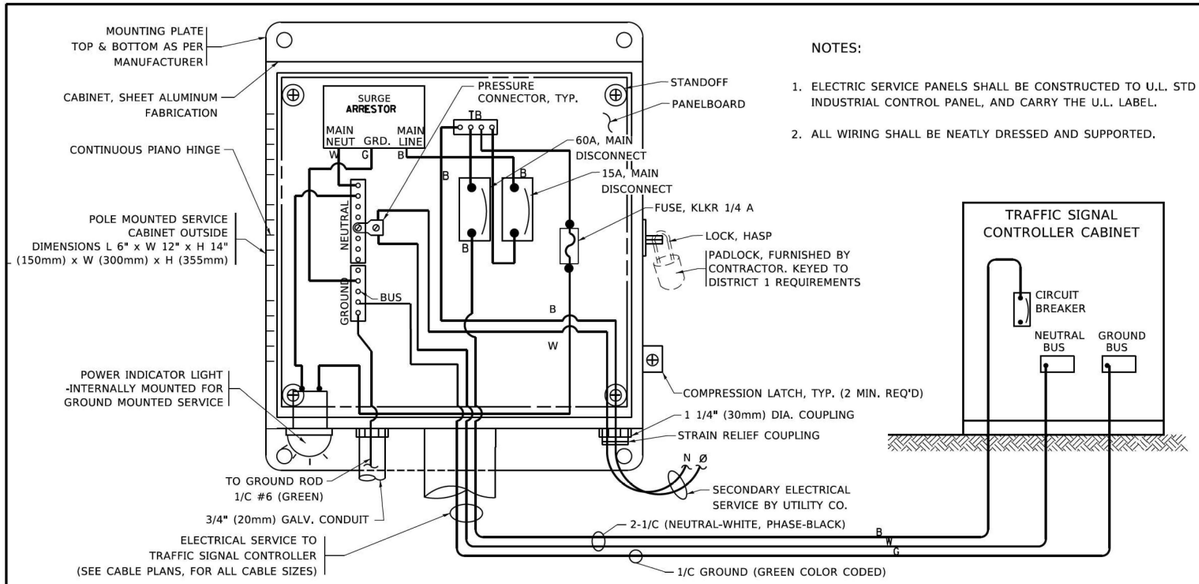
PLOT DATE = 3/4/2019	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			135	62
	TS-05	CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



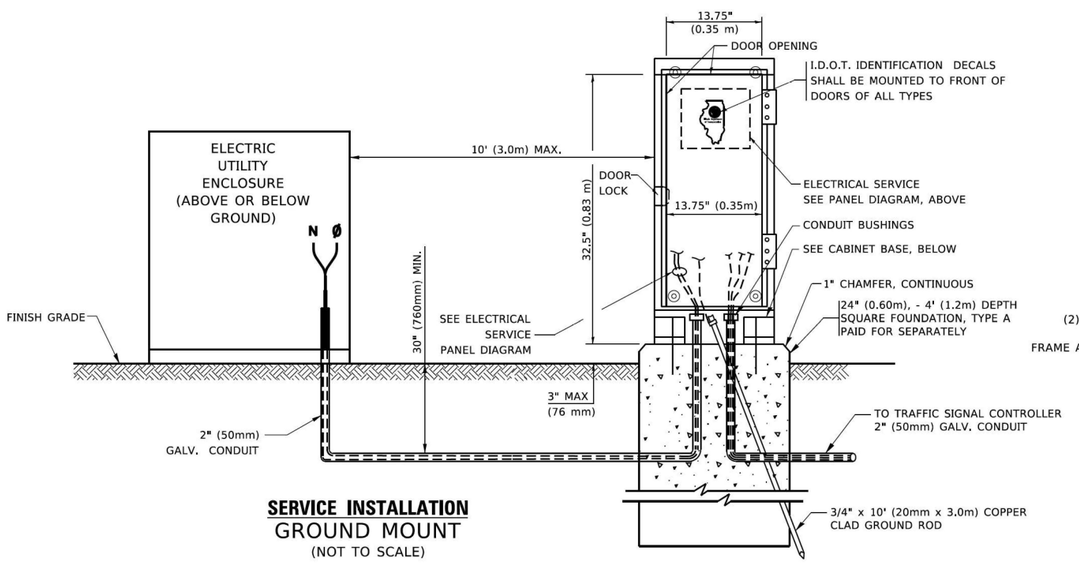
NOTES:

1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)

SERVICE INSTALLATION POLE MOUNT (SHOWN)

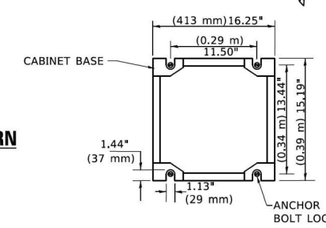
(NOT TO SCALE)



SERVICE INSTALLATION

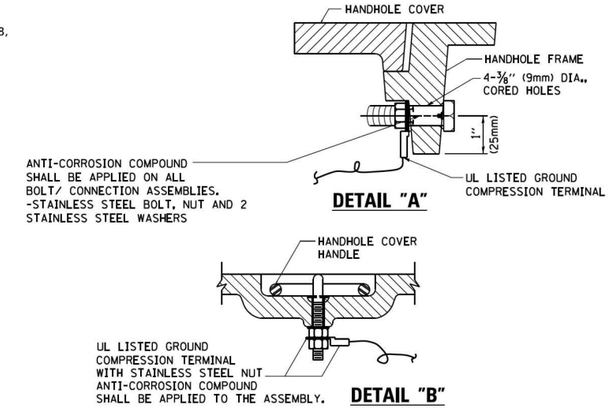
GROUND MOUNT

(NOT TO SCALE)



CABINET – BASE BOLT PATTERN

(NOT TO SCALE)



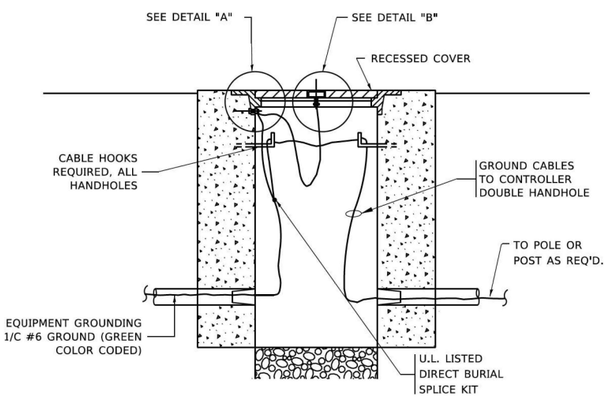
DETAIL "A"

DETAIL "B"

NOTES:

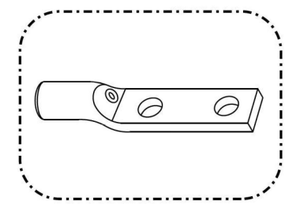
GROUNDING SYSTEM

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

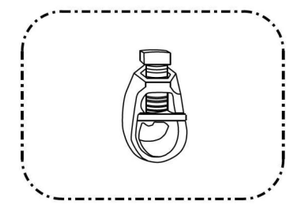


HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)



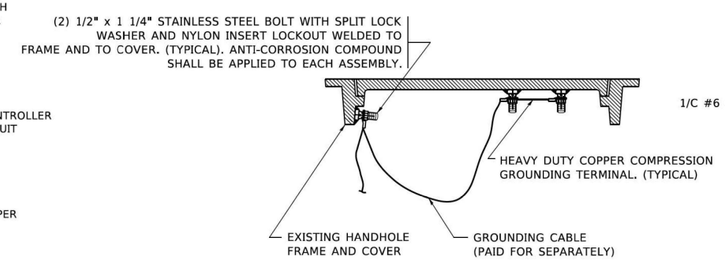
HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)



3/4" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EQUAL)

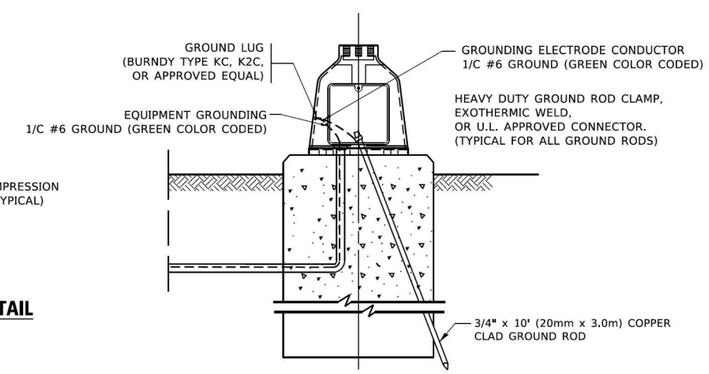
NOTES:

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



EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)



MAST ARM POLE /POST–GROUNDING DETAIL

(NOT TO SCALE)

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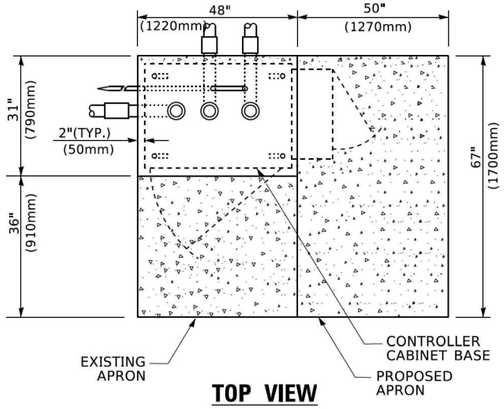
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

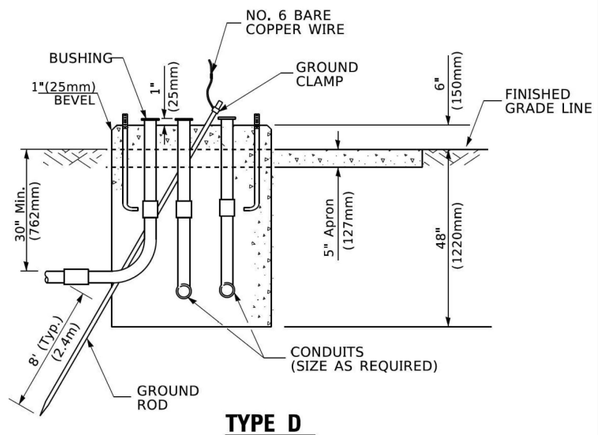
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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

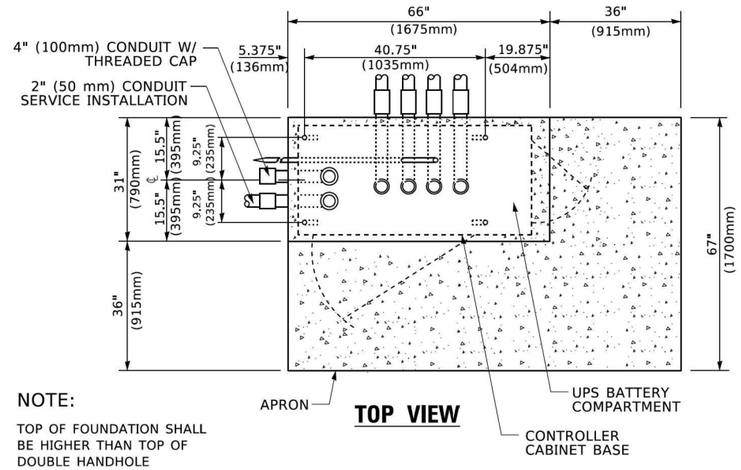
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			135	63
TS–05		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



TOP VIEW



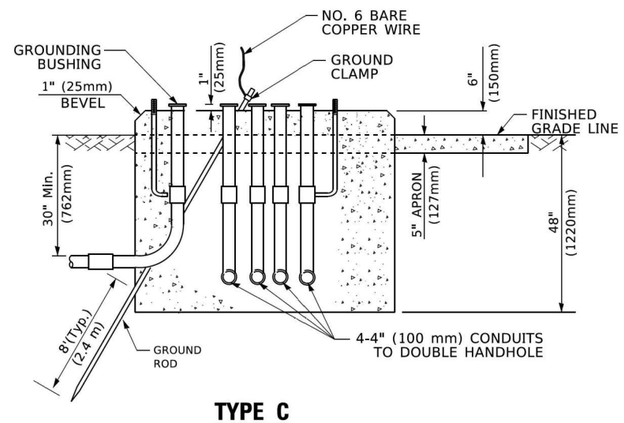
TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



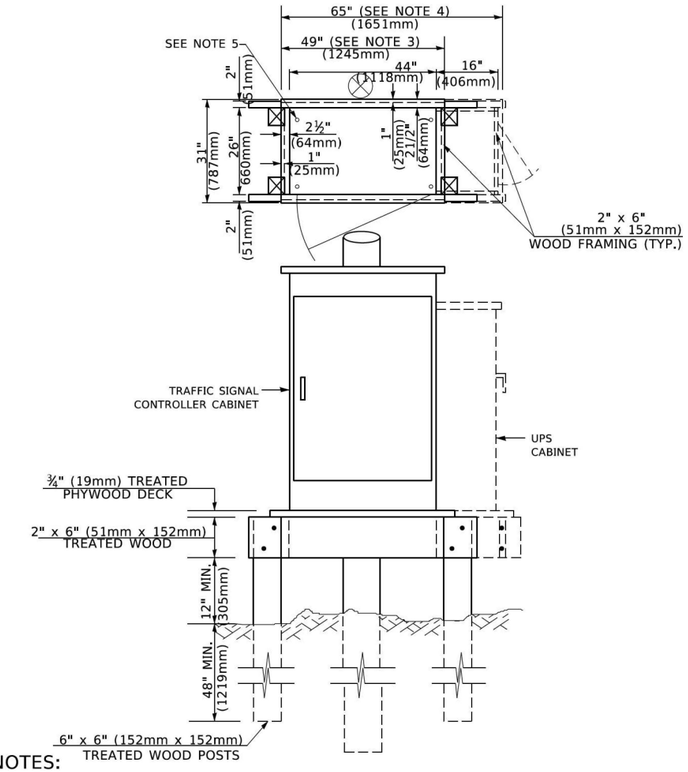
NOTE:

TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE

TOP VIEW



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



NOTES:

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

TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM

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

CABLE SLACK

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

VERTICAL CABLE LENGTH

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

DEPTH OF FOUNDATION

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

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

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	TS-05	CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		

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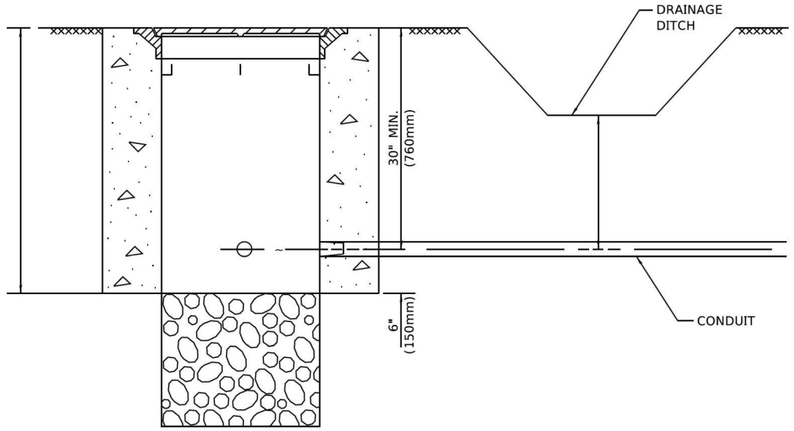
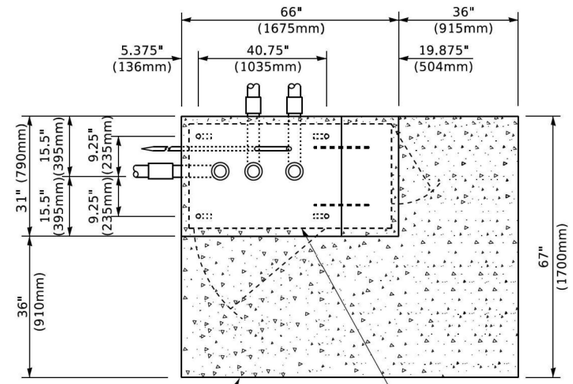


NOTES:

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

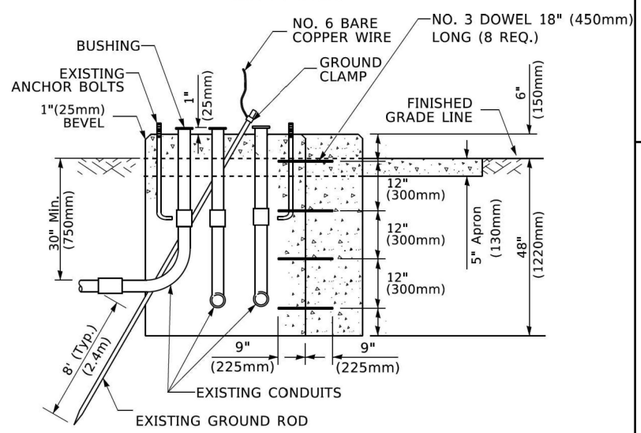
HANDHOLE WITH MINIMUM CONDUIT DEPTH

(NOT TO SCALE)



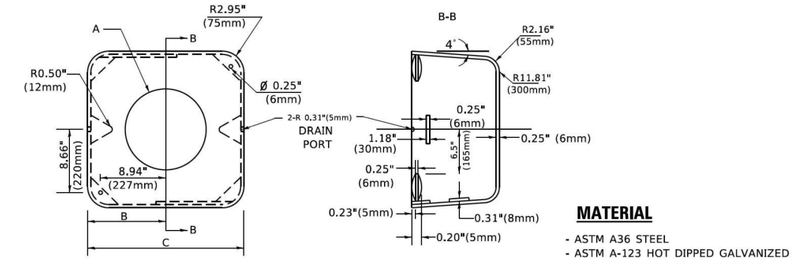
TOP VIEW

(NOT TO SCALE)



MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION

(NOT TO SCALE)



MATERIAL

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

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

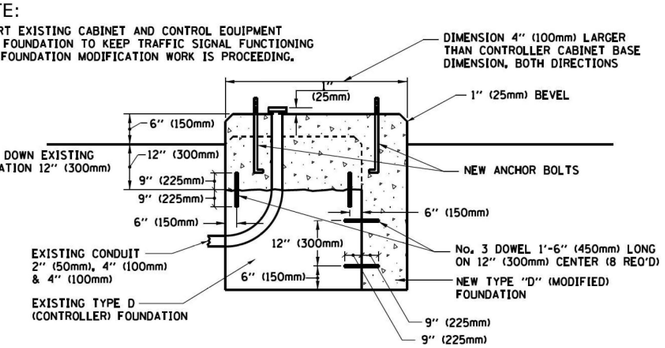
SHROUD

NOTES:

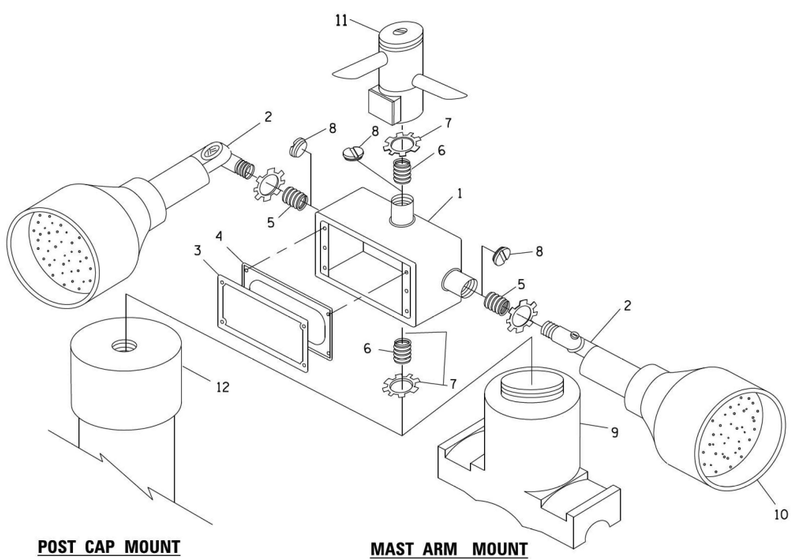
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE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

NOTE:

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



MODIFY EXISTING TYPE "D" FOUNDATION



POST CAP MOUNT

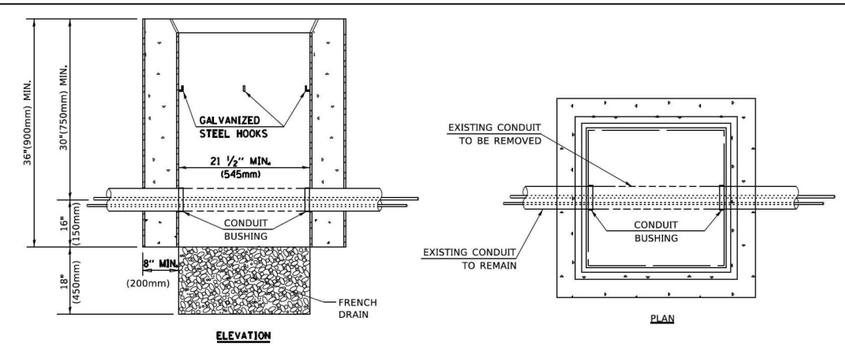
MAST ARM MOUNT

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	¾"(19 mm) CLOSE NIPPLE
7	¾"(19 mm) LOCKNUT
8	¾"(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

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



NOTES:

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

HANDHOLE TO INTERCEPT EXISTING CONDUIT

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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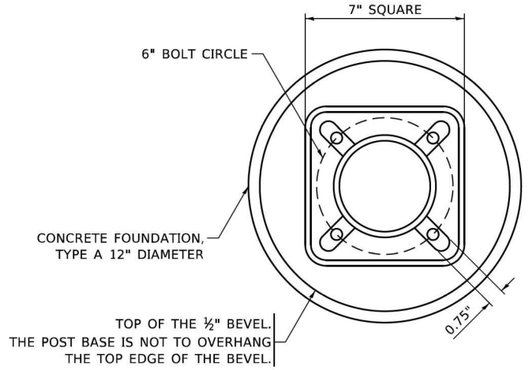
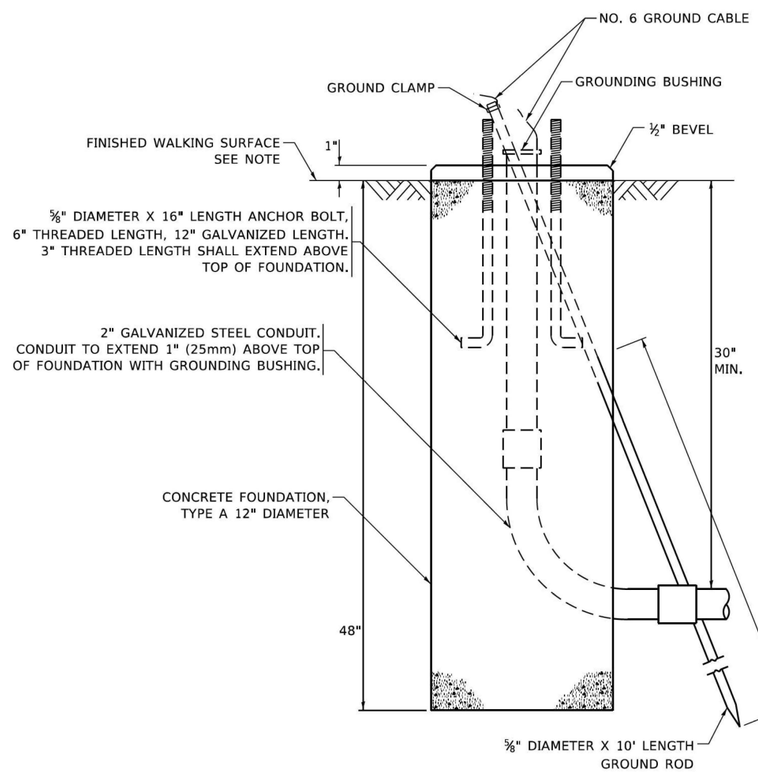


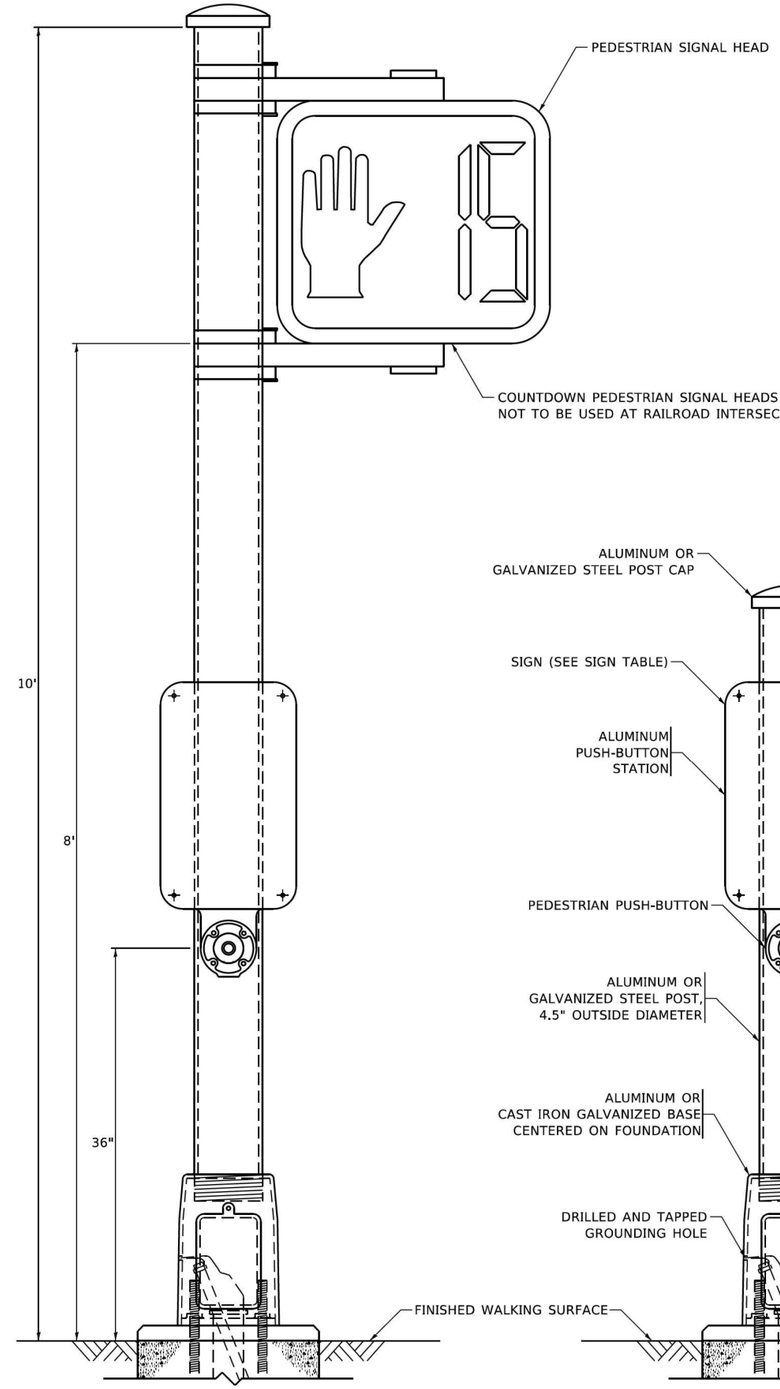
BOLT PATTERN

NOTE:

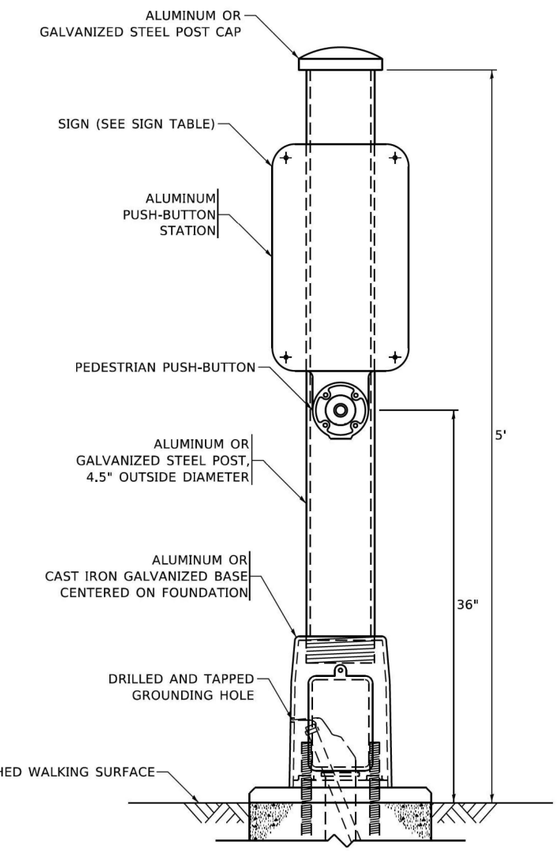
1. IF THE PEDESTRIAN SIGNAL POST FOUNDATION IS INSTALLED WITHIN OR BEHIND A BARRIER CURB, THE TOP OF THE FOUNDATION SHALL BE INSTALLED FLUSH WITH THE TOP OF THE BARRIER CURB.



CONCRETE FOUNDATION, TYPE A 12–INCH DIAMETER



PEDESTRIAN SIGNAL POST, 10 FT.



PEDESTRIAN SIGNAL POST, 5 FT.

R10–3b **R10–3d** **R10–3e**

SIGN TABLE

SIGN	DIMENSIONS
R10-3b (RAILROAD ONLY)	9" X 12"
R10-3d (RAILROAD ONLY)	9" X 12"
R10-3e	9" X 12"

NOTES:

1. THE SIGN PANELS SHALL BE TYPE AP SHEETING.
2. THE ARROW ON SIGNS FOR PUSH-BUTTONS SERVING TWO DIRECTIONS ON THE SAME PHASE SHALL BE BI-DIRECTIONAL.
3. THE SIGN FOR DUAL-CALL PUSH-BUTTONS SHALL HAVE NO ARROW.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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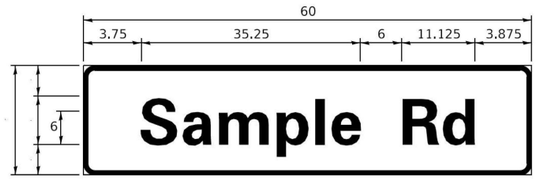
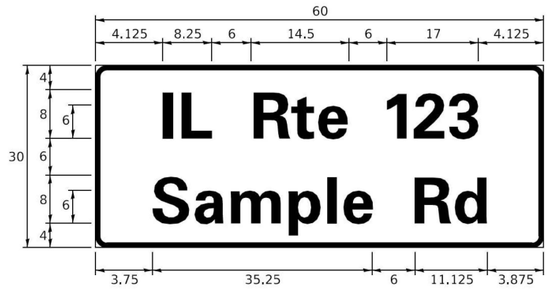
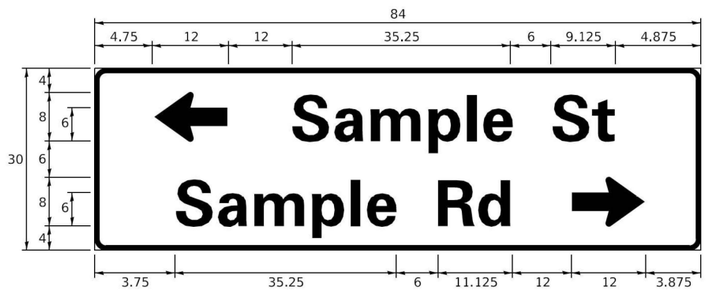
	ILLINOIS	FED. AID PROJECT		

SIGN PANEL – TYPE 1 OR TYPE 2







DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D OR C	-	1 OR 2	ZZ	-

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

NAME	ABBREVATION	WIDTH (INCH)	
		SERIES "C"	SERIES "D"
AVENUE	Ave	15.000	18.250
BOULEVARD	Blvd	17.125	20.000
CIRCLE	Cir	11.125	13.000
COURT	Ct	8.250	9.625
DRIVE	Dr	8.625	10.125
HIGHWAY	Hwy	18.375	22.000
ILLINOIS	IL	7.000	8.250
LANE	Ln	9.125	10.750
PARKWAY	Pkwy	23.375	27.375
PLACE	Pl	7.125	7.750
ROAD	Rd	9.625	11.125
ROUTE	Rte	12.625	14.500
STREET	St	8.000	9.125
TERRACE	Ter	12.625	14.625
TRAIL	Tr	7.750	9.125
UNITED STATES	US	10.375	12.250

GENERAL NOTES

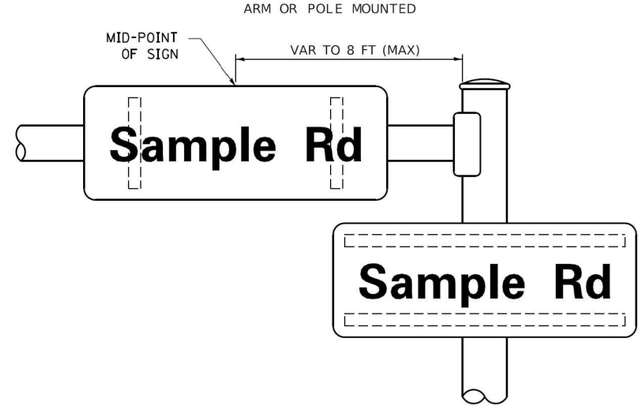
1. WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
2. ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)
3. THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-0". ALL BORDERS IF POSSIBLE, BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. A MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.
4. A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 18" IN HEIGHT AND A MAXIMUM OF 8'-0" IN WIDTH. IF SERIES "D" DOES NOT FIT ON A 8"-0" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-0" SIGN, A 30" HIGH TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION AS TO STREET, AVENUE, ETC. SHOULD BE SPELLED OUT ON THE SECOND LINE, IF THE ABBREVIATION CANNOT FIT ON THE FIRST LINE.
5. LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLOGY MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENT AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.
6. SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

LOCAL SUPPLIERS:	PARTS LISTING:	
- J.O. HERBERT COMPANY, INC MIDLOTHIAN, VA	SIGN CHANNEL	PART #HPN053 (MED. CHANNEL)
	SIGN SCREWS	1/4" x 14 x 1" H.W.H. #3 SELF TAPPING WITH NEOPRENE WASHER
- WESTERN REMAC, INC. WOODRIDGE, IL	BRACKETS	PART #HPN034 (UNIVERSAL) CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

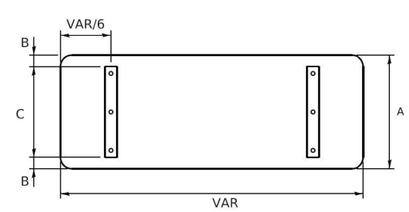
OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

MOUNTING LOCATION

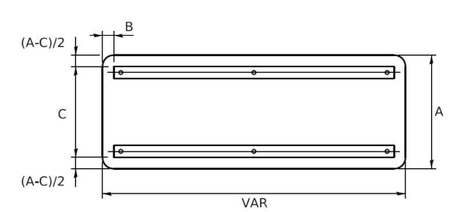
ARM OR POLE MOUNTED



SUPPORTING CHANNELS



A	B	C
18"	2"	14"
30"	2"	24"



A	B	C
18"	2"	12"
30"	2"	22"

STANDARD ALPHABETS SPACING CHART

(8") UPPER CASE AND (6") LOWER CASE

FHWA SERIES "C"				FHWA SERIES "D"			
CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)	CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)
A	0.240	5.122	0.240	A	0.240	6.804	0.240
B	0.880	4.482	0.480	B	0.960	5.446	0.400
C	0.720	4.482	0.720	C	0.800	5.446	0.800
D	0.880	4.482	0.720	D	0.960	5.446	0.800
E	0.880	4.082	0.480	E	0.960	4.962	0.400
F	0.880	4.082	0.240	F	0.960	4.962	0.240
G	0.720	4.482	0.720	G	0.800	5.446	0.800
H	0.880	4.482	0.880	H	0.960	5.446	0.960
I	0.880	1.120	0.880	I	0.960	1.280	0.960
J	0.240	4.082	0.880	J	0.240	5.122	0.960
K	0.880	4.482	0.480	K	0.960	5.604	0.400
L	0.880	4.082	0.240	L	0.960	4.962	0.240
M	0.880	5.284	0.880	M	0.960	6.244	0.960
N	0.880	4.482	0.880	N	0.960	5.446	0.960
O	0.720	4.722	0.720	O	0.800	5.684	0.800
P	0.880	4.482	0.720	P	0.960	5.446	0.240
Q	0.720	4.722	0.720	Q	0.800	5.684	0.800
R	0.880	4.482	0.480	R	0.960	5.446	0.400
S	0.480	4.482	0.480	S	0.400	5.446	0.400
T	0.240	4.082	0.240	T	0.240	4.962	0.240
U	0.880	4.482	0.880	U	0.960	5.446	0.960
V	0.240	4.962	0.240	V	0.240	6.084	0.240
W	0.240	6.084	0.240	W	0.240	7.124	0.240
X	0.240	4.722	0.240	X	0.400	5.446	0.400
Y	0.240	5.122	0.240	Y	0.240	6.884	0.240
Z	0.480	4.482	0.480	Z	0.400	5.446	0.400
a	0.320	3.842	0.640	a	0.400	4.562	0.720
b	0.720	4.082	0.480	b	0.800	4.802	0.480
c	0.480	4.002	0.240	c	0.480	4.722	0.240
d	0.480	4.082	0.720	d	0.480	4.802	0.800
e	0.480	4.082	0.320	e	0.480	4.722	0.320
f	0.320	2.480	0.160	f	0.320	2.882	0.160
g	0.480	4.082	0.720	g	0.480	4.802	0.800
h	0.720	4.082	0.640	h	0.800	4.722	0.720
i	0.720	1.120	0.720	i	0.800	1.280	0.800
j	0.000	2.320	0.720	j	0.000	2.642	0.800
k	0.720	4.322	0.160	k	0.800	5.122	0.160
l	0.720	1.120	0.720	l	0.800	1.280	0.800
m	0.720	6.724	0.640	m	0.800	7.926	0.720
n	0.720	4.082	0.640	n	0.800	4.722	0.720
o	0.480	4.082	0.480	o	0.480	4.882	0.480
p	0.720	4.082	0.480	p	0.800	4.802	0.480
q	0.480	4.082	0.720	q	0.480	4.802	0.800
r	0.720	2.642	0.160	r	0.800	3.042	0.160
s	0.320	3.362	0.240	s	0.320	3.762	0.240
t	0.080	2.882	0.080	t	0.080	3.202	0.080
u	0.640	4.082	0.720	u	0.720	4.722	0.800
v	0.160	4.722	0.160	v	0.160	5.684	0.160
w	0.160	7.524	0.160	w	0.160	9.046	0.160
x	0.000	5.202	0.000	x	0.000	6.244	0.000
y	0.160	4.962	0.160	y	0.160	6.004	0.160
z	0.240	3.362	0.240	z	0.240	4.002	0.240
1	0.720	1.680	0.880	1	0.800	2.000	0.960
2	0.480	4.482	0.480	2	0.800	5.446	0.800
3	0.480	4.482	0.480	3	1.440	5.446	0.800
4	0.240	4.962	0.720	4	0.160	6.004	0.960
5	0.480	4.482	0.480	5	0.800	5.446	0.800
6	0.720	4.482	0.720	6	0.800	5.446	0.800
7	0.240	4.482	0.720	7	0.560	5.446	0.560
8	0.480	4.482	0.480	8	0.800	5.446	0.800
9	0.480	4.482	0.480	9	0.800	5.446	0.800
0	0.720	4.722	0.720	0	0.800	5.684	0.800
-	0.240	2.802	0.240	-	0.240	2.802	0.240

TS SHT NO. 8

MODEL: Default
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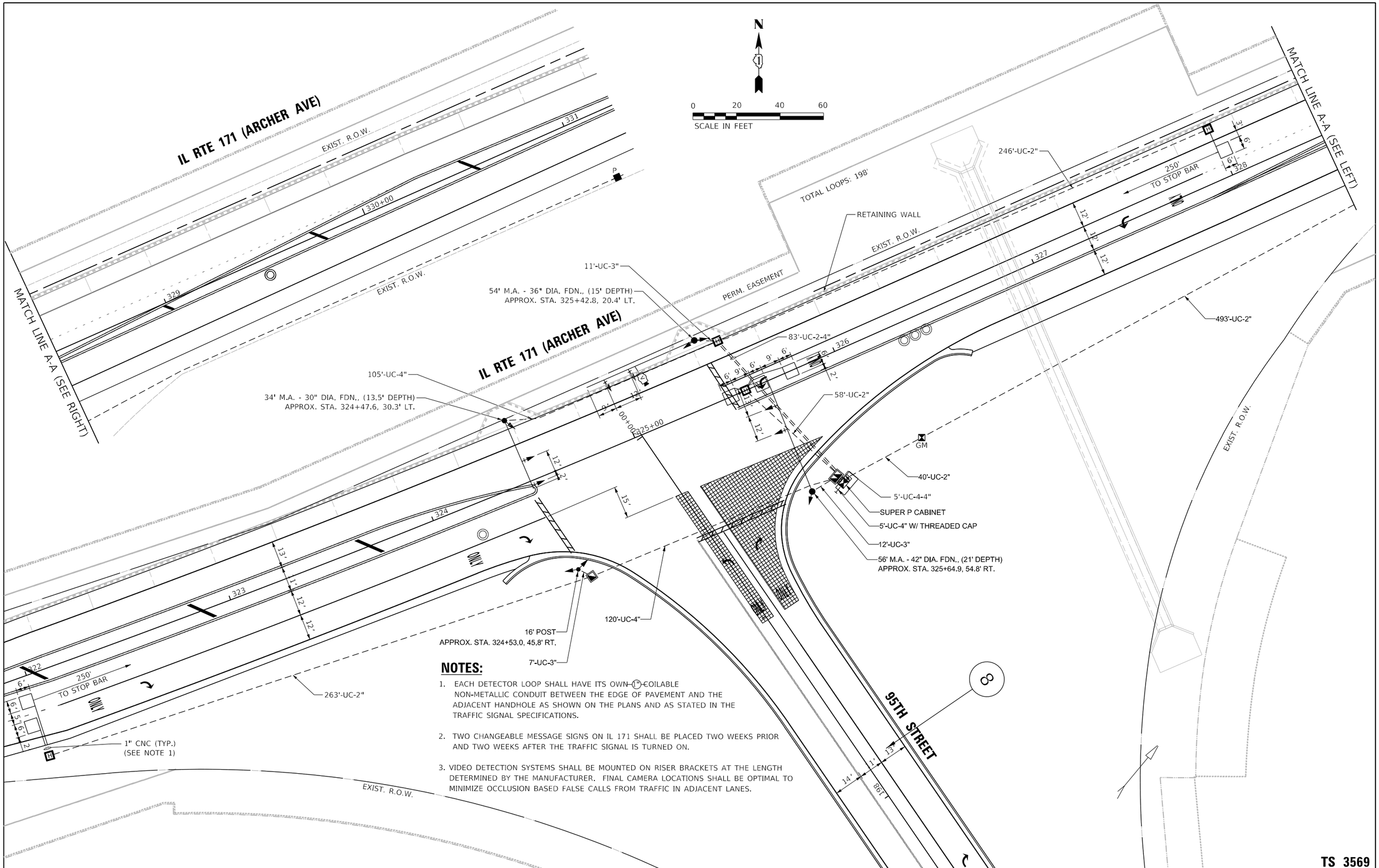
USER NAME = footemj	DESIGNED - LP/IP	REVISED - LP 07/01/2015	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - LP	REVISED -	
PLOT SCALE = 50.0000 ' / in.	CHECKED - IP	REVISED -	
PLOT DATE = 3/4/2019	DATE - 10/01/2014	REVISED -	

DISTRICT ONE
MAST ARM MOUNTED STREET NAME SIGNS

SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			135	67
	TS-02	CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		



NOTES:

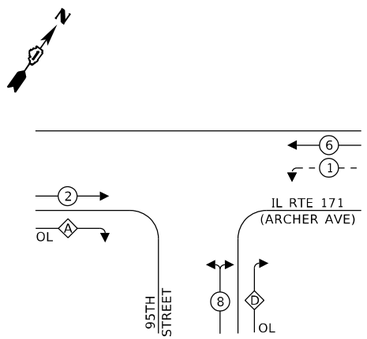
1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
2. TWO CHANGEABLE MESSAGE SIGNS ON IL 171 SHALL BE PLACED TWO WEEKS PRIOR AND TWO WEEKS AFTER THE TRAFFIC SIGNAL IS TURNED ON.
3. VIDEO DETECTION SYSTEMS SHALL BE MOUNTED ON RISER BRACKETS AT THE LENGTH DETERMINED BY THE MANUFACTURER. FINAL CAMERA LOCATIONS SHALL BE OPTIMAL TO MINIMIZE OCCLUSION BASED FALSE CALLS FROM TRAFFIC IN ADJACENT LANES.

TS SHT NO. 09

TS 3569

AMES Engineering, Inc. CONSULTING ENGINEERS 6330 Belmont Road, Suite 4B Downers Grove, IL 60516	USER NAME = Srahman	DESIGNED - TM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL INSTALLATION PLAN IL RTE 171 (ARCHER AVE) AND 95TH ST	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - TM	REVISED -			3565	U-1-N	COOK	135	68
	PLOT SCALE = $SCALE$	CHECKED - AS	REVISED -			CONTRACT NO. 60R94				
	PLOT DATE = 9/8/2025	DATE - 6/15/2022	REVISED -		SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT				

PROPOSED CONTROLLER SEQUENCE

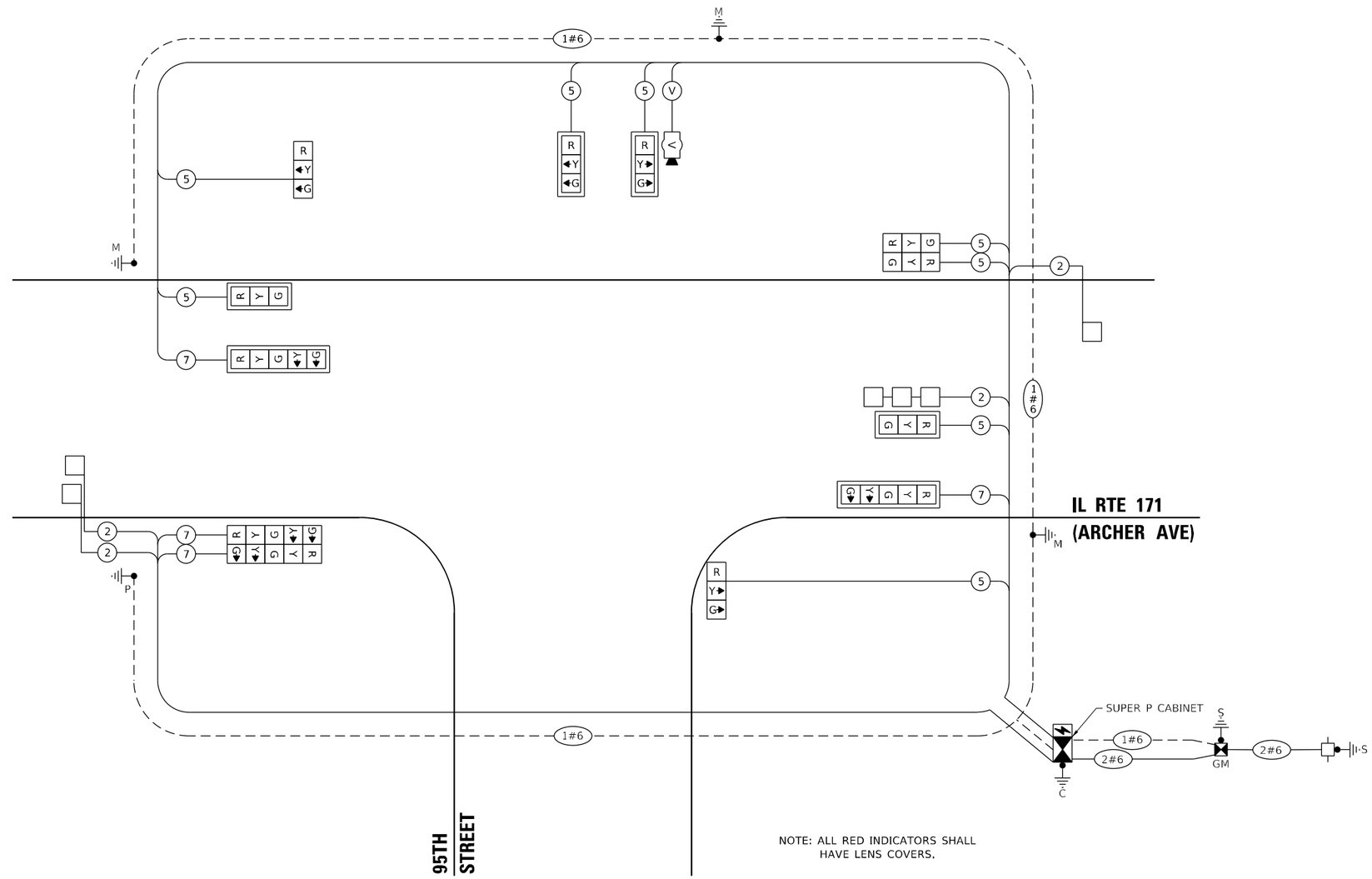


LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL — OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
A	=	2	+	8
D	=	8	+	1



NOTE: ALL RED INDICATORS SHALL HAVE LENS COVERS.

CABLE PLAN
(NOT TO SCALE)

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
PERMISSIVE ARROW	8	10	10	8.00
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100.00
UPS	1	25	100	25.00
VIDEO SYSTEM	1	150	100	150.00
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
			TOTAL =	425.8

ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION
201 W. CENTER COURT
SCHAUMBURG, ILLINOIS 60196

ENERGY SUPPLY: CONTACT: NICK TULEJA
PHONE: (440) 796-8979
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: 09340-36049

TS SHT NO. 10

TS 3569

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = Srahman	DESIGNED - TM	REVISED -	
	DRAWN - TM	REVISED -	
PLOT SCALE = $SCALES	CHECKED - AS	REVISED -	
PLOT DATE = 9/9/2025	DATE - 6/15/2022	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL RTE 171 (ARCHER AVE) AND 95TH ST

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

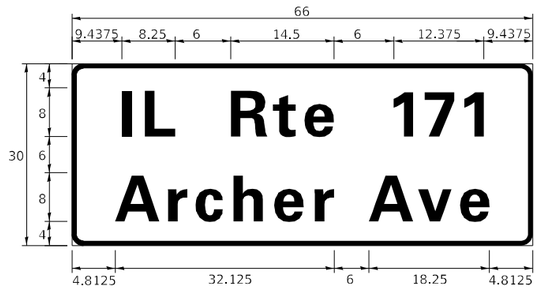
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	69

CONTRACT NO. 60R94

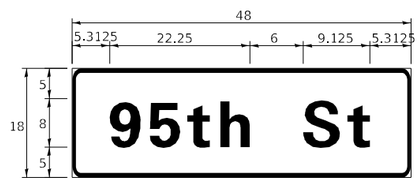
ILLINOIS | FED. AID PROJECT

SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	13.75	2	ZZ	1



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	6.0	1	ZZ	2

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
CHANGEABLE MESSAGE SIGN	CAL DA	14
SIGN PANEL - TYPE 1	SQ FT	12
SIGN PANEL - TYPE 2	SQ FT	13.75
UNINTERRUPTABLE POWER SUPPLY AND CABINET (SPECIAL)	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1,100
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	30
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	411
HANDHOLE	EACH	1
HEAVY-DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,044
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	913
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	866
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	546
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	896
TRAFFIC SIGNAL POST, 16 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 54 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 56 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	13.5
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	15
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	21
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	6
INDUCTIVE LOOP DETECTOR	EACH	4
DETECTOR LOOP, TYPE I	FOOT	202
SERVICE INSTALLATION - GROUND MOUNTED, METERED	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET	EACH	1
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
LED SIGNAL FACE, LENS COVER	EACH	12

TS SHT NO. 11

TS 3569

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

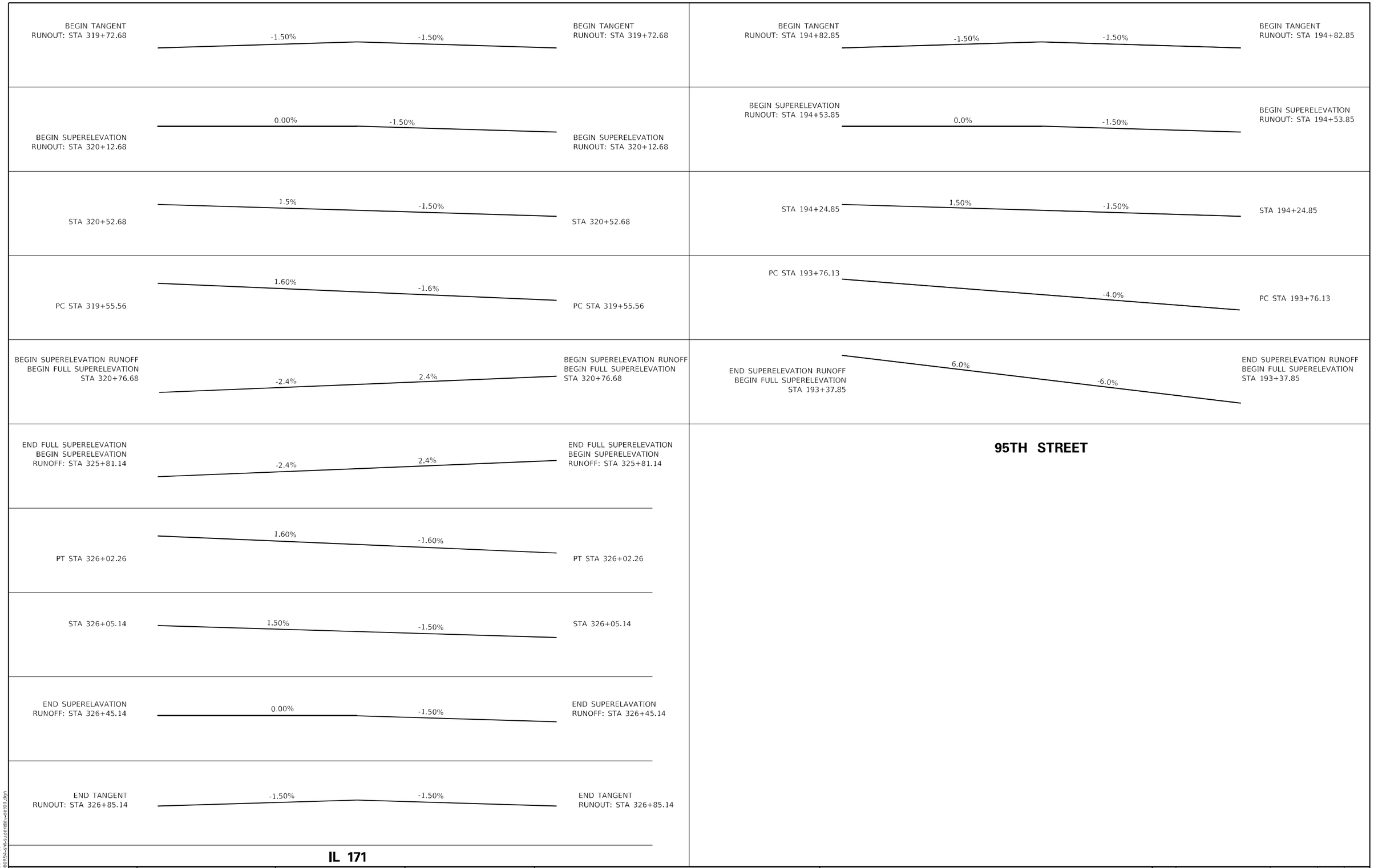
USER NAME = Srahman	DESIGNED - TM	REVISED -	
	DRAWN - TM	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - AS	REVISED -	
PLOT DATE = 9/9/2025	DATE - 6/15/2022	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES
IL RTE 171 (ARCHER AVE) AND 95TH STREET

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	70
		CONTRACT NO. 60R94		
	ILLINOIS	FED. AID PROJECT		



MODEL: $MODEL$NAME$
FILE NAME: D160R94-sht-superelev-det01.dgn

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = Srahman	DESIGNED - JAR	REVISED -	
	DRAWN - MD	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - AS	REVISED -	
PLOT DATE = 5/23/2025	DATE - XX	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERELEVATION DETAILS
IL 171 AND 95TH STREET

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

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	71
		CONTRACT NO. 60R94		
	ILLINOIS	FED. AID PROJECT		

Bench Mark: A 2" metal disk in concrete located in grass median at 95th Street and IL Route 171 lying 36' south of south pavement edge along IL Route 171 and 29' northwest of west pavement edge along east leg for 95th Street. Elev. 608.57.

Existing Structure: None

Traffic to be detoured during construction.

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

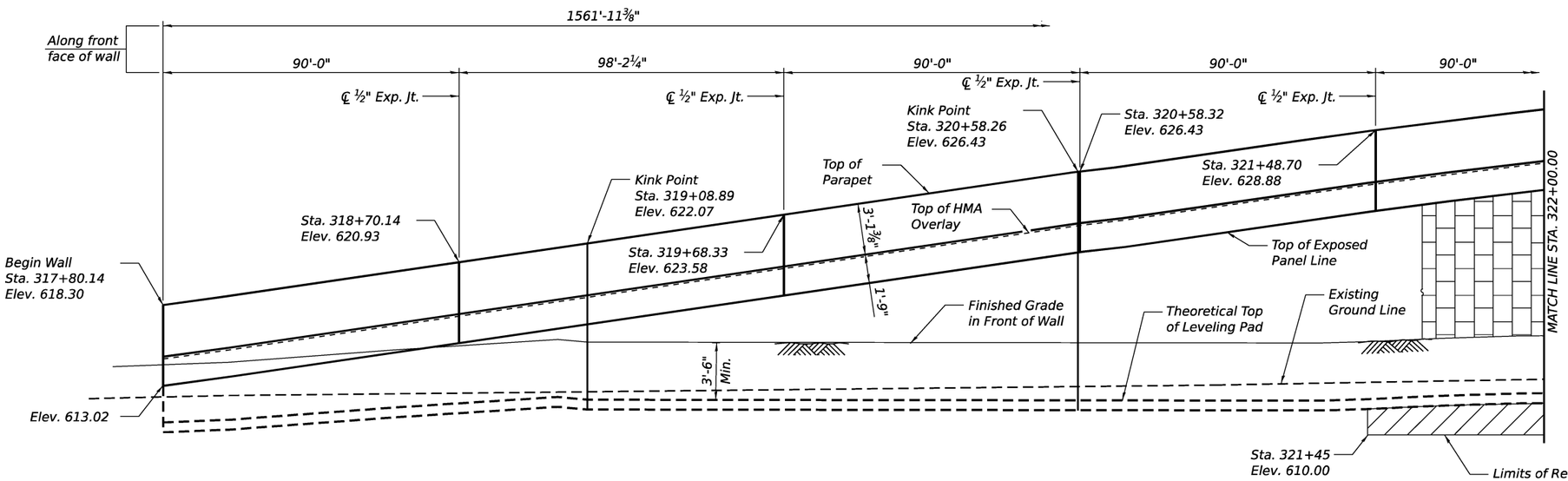
DESIGN STRESSES

FIELD UNITS

f'c = 4,000 psi (Anchorage Slab)
f'c = 3,500 psi (Culvert)
fy = 60,000 psi (Reinforcement)

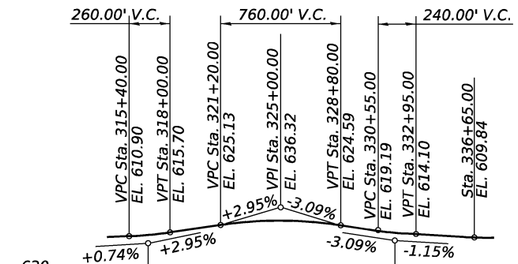
PRECAST UNITS

f'c = 4,500 psi (Precast Panels)



ELEVATION

(Looking Northwest)



PROFILE GRADE

(Along ℄ IL-171)

CURVE DATA

P.I. Sta. = 323+29.13
Δ = 5° 35' 37" (LT)
D = 1° 01' 23"
R = 5,600.00
T = 273.57'
L = 546.70'
E = 6.68'
P.C. Sta. = 320+55.56
P.T. Sta. = 326+02.26
e = 2.4%
REMOVED = STA. 319+72.68 TO STA. 326+85.14
DESIGN SPEED = 60 MPH

NOTES:

1. Wall offsets and stations are measured from the ℄ of IL. Rte. 171 to the front face of wall. Wall lengths are measured along the front face of wall.
2. See Sheets S-5, S-6, & S-7 for Typical Section
3. See Sheet S-5 for Finished Grade Elevations
4. See Sheet S-5 for additional notes

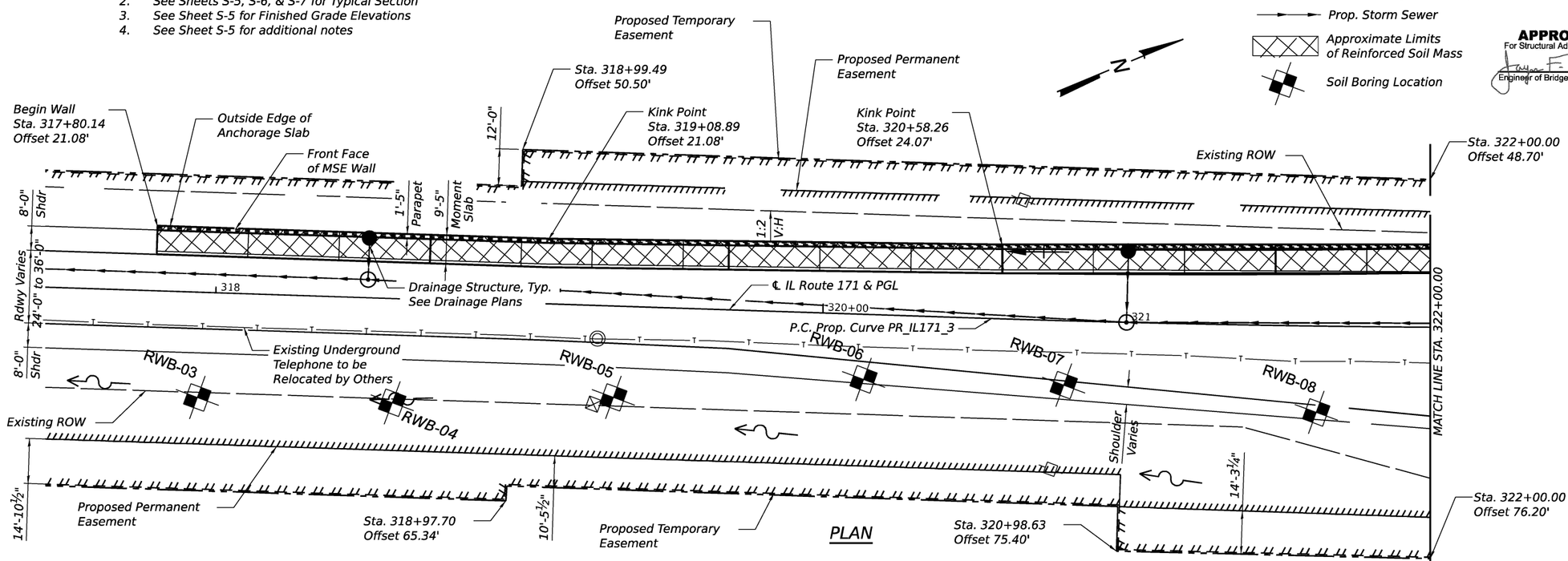
LEGEND

- Exist. Underground Telephone
- Prop. Storm Sewer
- Approximate Limits of Reinforced Soil Mass
- Soil Boring Location

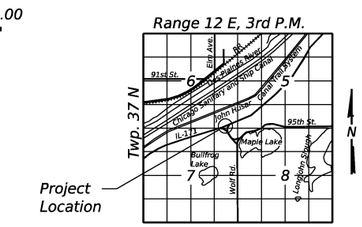
APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures

STATE OF ILLINOIS
EWA K. MROCZEK
081-006067
CHICAGO, ILLINOIS
LICENSED STRUCTURAL ENGINEER

COLLINS ENGINEERS, INC.
EWA MROCZEK, P.E., S.E.
NO. 081-006067
EXP.: 11/30/2026



PLAN



LOCATION SKETCH

GENERAL PLAN AND ELEVATION I RETAINING WALL NO. 1 ALONG ILLINOIS ROUTE 171 (ARCHER AVE.) F.A.U. RTE. 3565 - SEC U-1-N COOK COUNTY STA. 317+80.14 STA. 333+28.06 STRUCTURE NO. 016-2310

MODEL: Default
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COLLINS ENGINEERS INC.

USER NAME =	DESIGNED - MPR	REVISED -	
	CHECKED - EKM	REVISED -	
PLOT SCALE =	DRAWN - ZBD	REVISED -	
PLOT DATE =	CHECKED - EKM	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET S-1 OF S-23 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	72	135
		CONTRACT NO. 60R94		
		ILLINOIS	FED. AID PROJECT	

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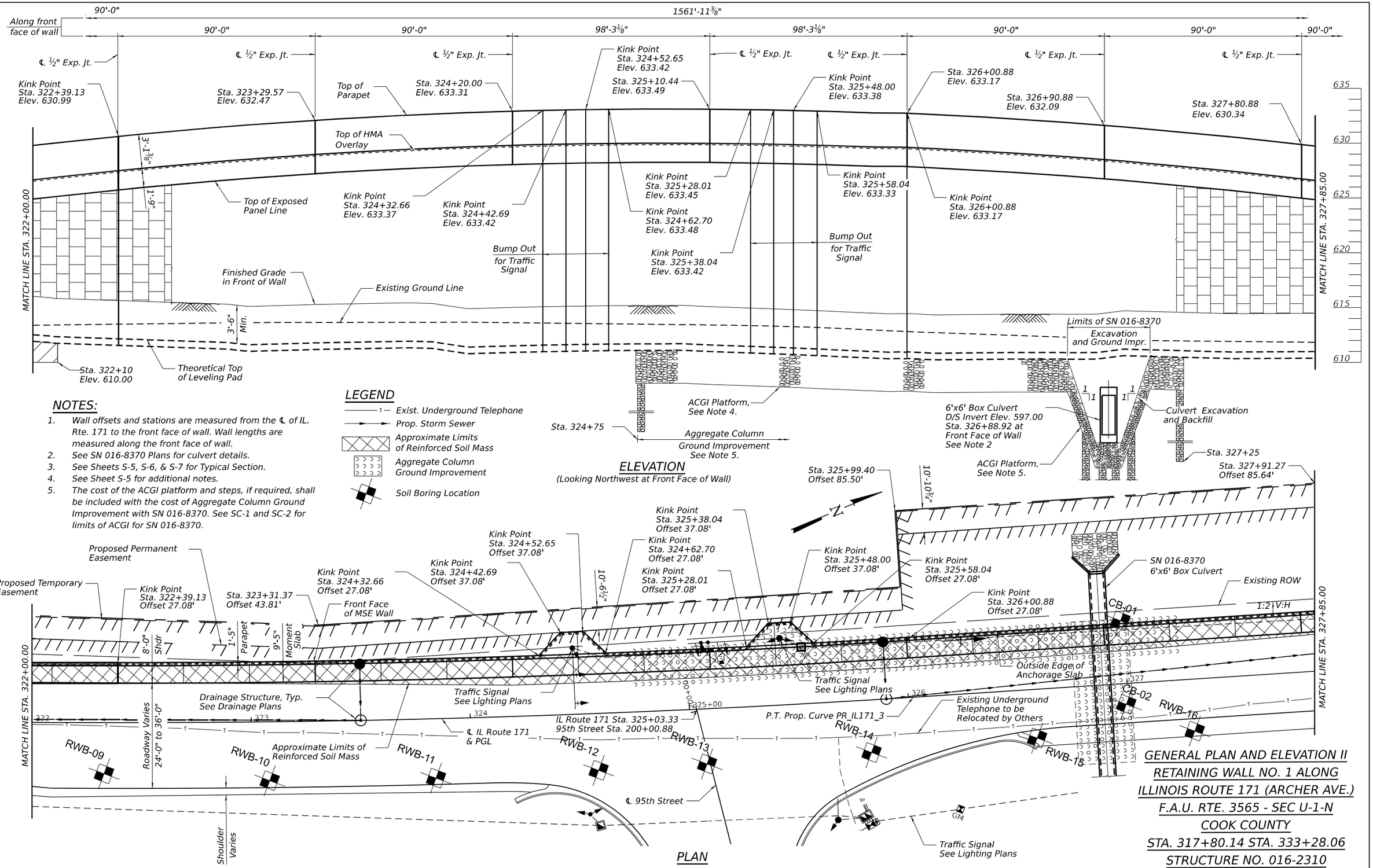

NOTES:

1. Wall offsets and stations are measured from the ℄ of IL. Rte. 171 to the front face of wall. Wall lengths are measured along the front face of wall.
2. See SN 016-8370 Plans for culvert details.
3. See Sheets S-5, S-6, & S-7 for Typical Section.
4. See Sheet S-5 for additional notes.
5. The cost of the ACGI platform and steps, if required, shall be included with the cost of Aggregate Column Ground Improvement with SN 016-8370. See SC-1 and SC-2 for limits of ACGI for SN 016-8370.

LEGEND

- Exist. Underground Telephone
- Prop. Storm Sewer
- Approximate Limits of Reinforced Soil Mass
- Aggregate Column Ground Improvement
- Soil Boring Location

ELEVATION

(Looking Northwest at Front Face of Wall)

PLAN

GENERAL PLAN AND ELEVATION II
RETAINING WALL NO. 1 ALONG
ILLINOIS ROUTE 171 (ARCHER AVE.)
F.A.U. RTE. 3565 - SEC U-1-N
COOK COUNTY
STA. 317+80.14 STA. 333+28.06
STRUCTURE NO. 016-2310

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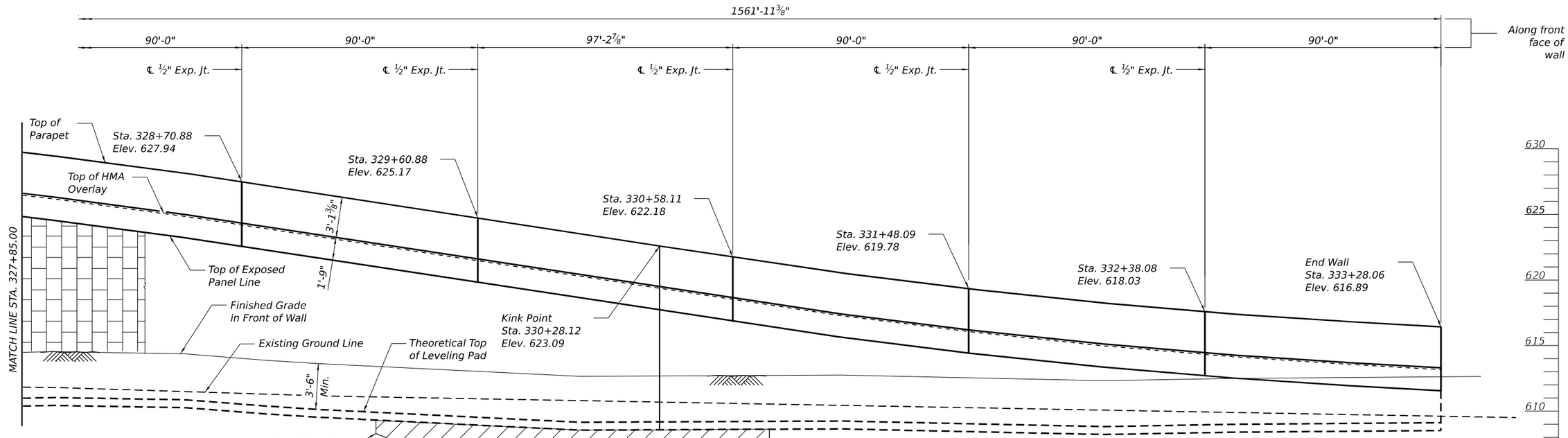
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET S-2 OF S-23 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	73	135
		CONTRACT NO. 60R94		
		ILLINOIS	FED. AID PROJECT	



NOTES:

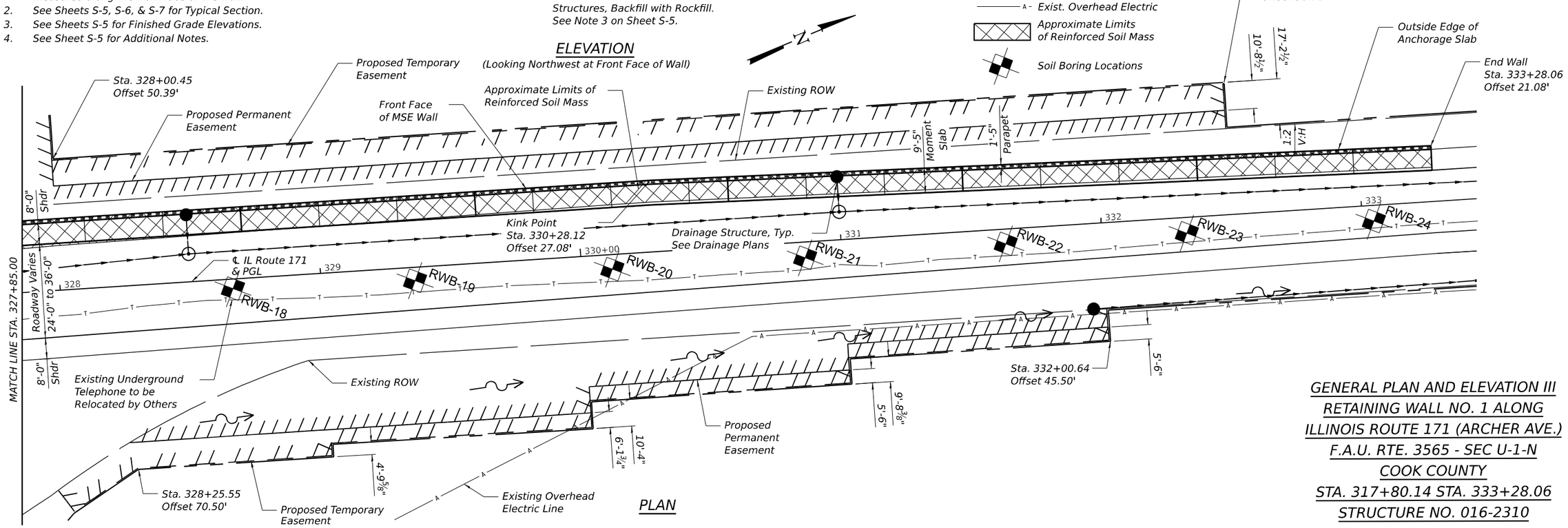
1. Wall offsets and stations are measured from the ℄ of IL. Rte. 171 to the front face of wall. Wall lengths are measured along the front face of the wall.
2. See Sheets S-5, S-6, & S-7 for Typical Section.
3. See Sheets S-5 for Finished Grade Elevations.
4. See Sheet S-5 for Additional Notes.

LEGEND

- Exist. Underground Telephone
- Prop. Storm Sewer
- Exist. Overhead Electric
- Approximate Limits of Reinforced Soil Mass
- Soil Boring Locations

ELEVATION

(Looking Northwest at Front Face of Wall)



PLAN

GENERAL PLAN AND ELEVATION III
RETAINING WALL NO. 1 ALONG
ILLINOIS ROUTE 171 (ARCHER AVE.)
F.A.U. RTE. 3565 - SEC U-1-N
COOK COUNTY
STA. 317+80.14 STA. 333+28.06
STRUCTURE NO. 016-2310

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET S-3 OF S-23 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	74	135

CONTRACT NO. 60R94

ILLINOIS FED. AID PROJECT

GENERAL NOTES:

1. Reinforcement Bars designated (E) shall be epoxy coated.
2. The Contractor shall locate all existing utilities prior to construction. Any damage to utilities to be repaired at the Contractor's expense.
3. The Rockfill shall be capped with 6 in. of CA7 and satisfy the Standard Specifications unless otherwise indicated in the Special Provisions. The cost of the capping material shall be included in the item for Rockfill.
4. Slipforming of the parapets is not allowed.
5. See sheet S-5 for other notes.
6. Protective coat shall be applied to the top of the Anchorage Slab and top and front of the parapet.
7. See roadway plans for overlay details and quantities.

INDEX OF SHEETS

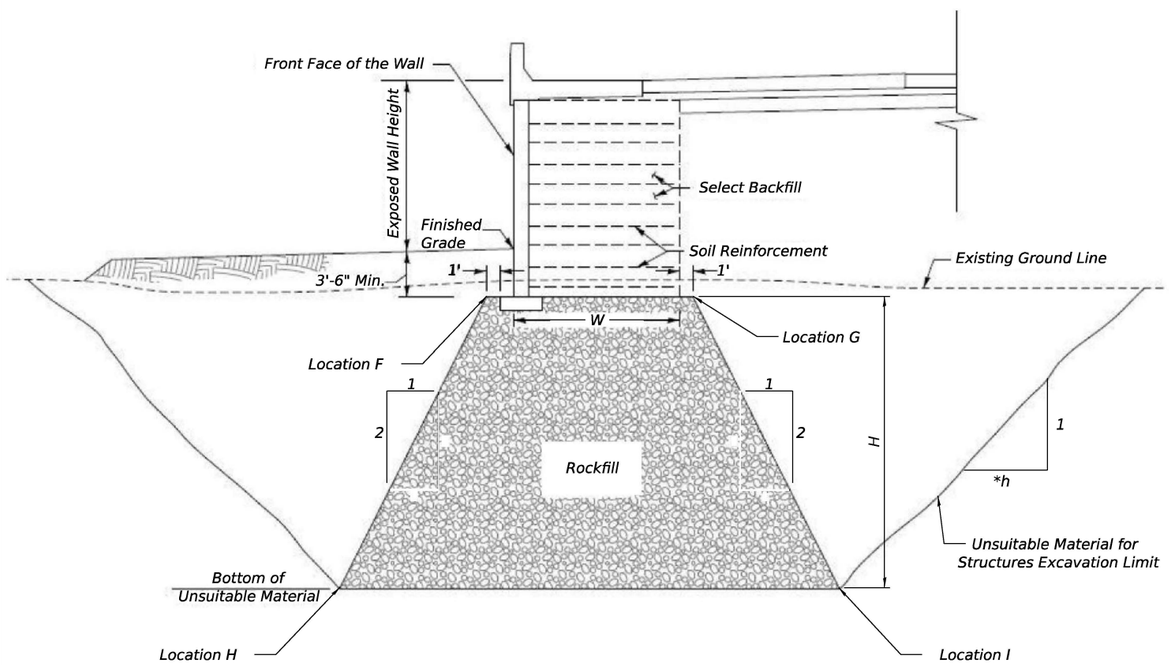
TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal and Disposal of Unsuitable Material for Structures	Cy. Yd.	461
Concrete Superstructure	Cy. Yd.	905.2
Protective Coat	Sq. Yd.	2,077
Reinforcement Bars, Epoxy Coated	Lbs.	129,860
Name Plates	Each	1
Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	19,230
Aggregate Column Ground Improvement	L. Sum	0.75
Rock Fill	Cy. Yd.	461

STATION 317+80.14 TO
STATION 333+28.06
BUILT BY
STATE OF ILLINOIS
F.A.U. RT. 3565 SEC. U-1-N
LOADING HL-93
STR. NO. 016-2310

NAME PLATE

See Std. 515001



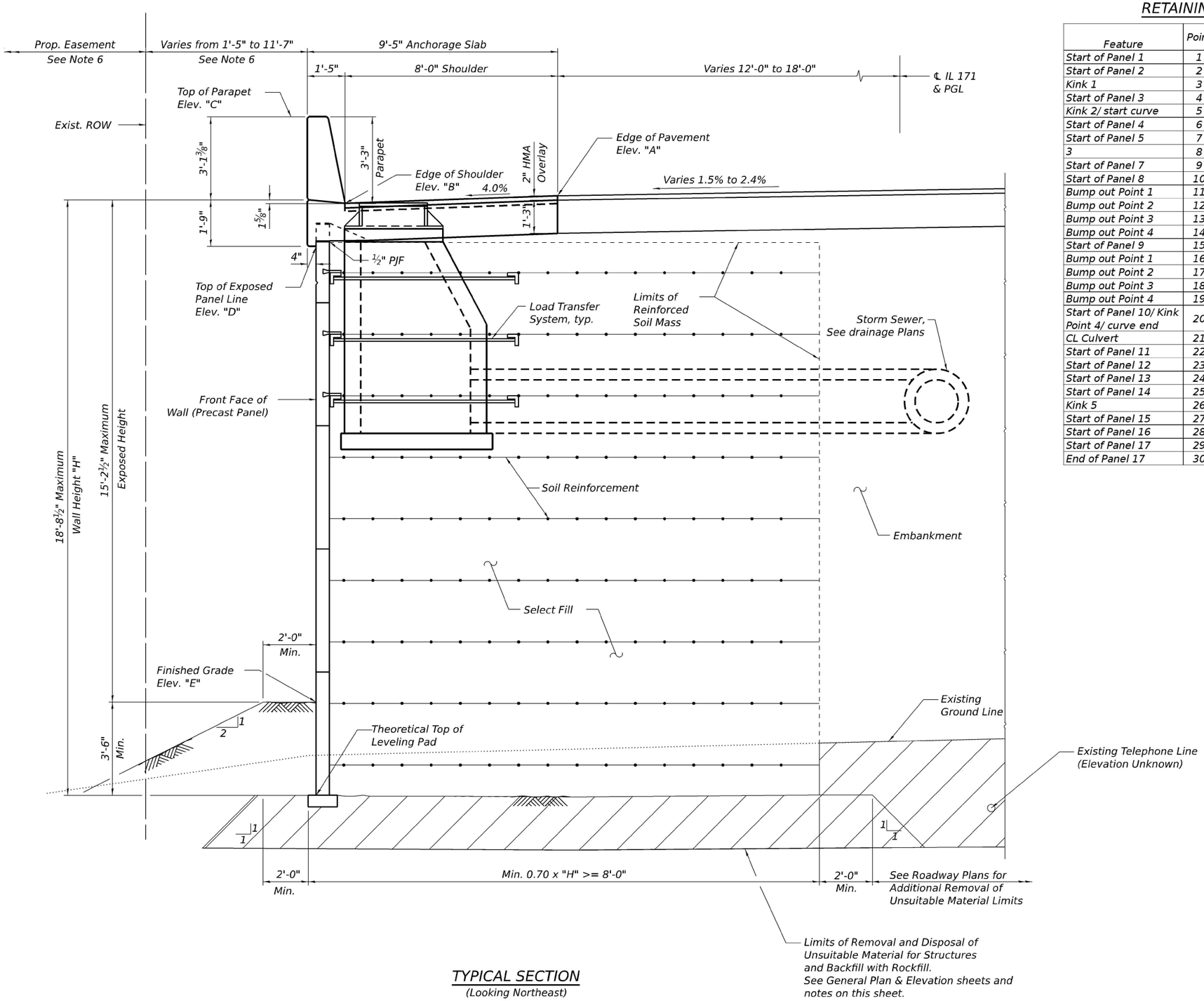
REMOVAL OF UNSUITABLE MATERIAL FOR STRUCTURES SKETCH

(Looking Northeast)

* h = 1 Between Sta. 321+45 to Sta. 322+10
h = 1.5 Between Sta. 329+20 to Sta. 330+70

REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL INFORMATION TABLE

Feature	Station	Location "F"		Location "G"		Location "H"		Location "I"		Exposed Wall Height	Reinforced Mass Width	Removal Depth
		OFFSET	ELEV.	OFFSET	ELEV.	OFFSET	ELEV.	OFFSET	ELEV.	FT	FT	FT
Start of Excavation 1	321+45.00	28.23	612.27	16.23	612.27	29.37	610.00	15.09	610.00	12.86	9.00	3.27
End of Excavation 1	322+10.00	28.99	612.43	15.99	612.43	30.21	610.00	14.78	610.00	14.28	10.00	3.43
Start of Excavation 2	329+20.00	29.08	610.11	17.22	610.11	30.14	608.00	16.17	608.00	12.66	8.86	3.61
Excavation 2 Point 2	329+60.00	29.08	609.54	17.69	609.54	31.35	605.00	15.42	605.00	11.99	8.39	6.04
Excavation 2 Point 3	330+34.00	28.96	609.19	17.96	609.19	30.56	606.00	16.37	606.00	10.06	8.00	4.69
End of Excavation 2	330+70.00	28.24	609.22	17.24	609.22	28.85	608.00	16.63	608.00	8.94	8.00	2.72



TYPICAL SECTION

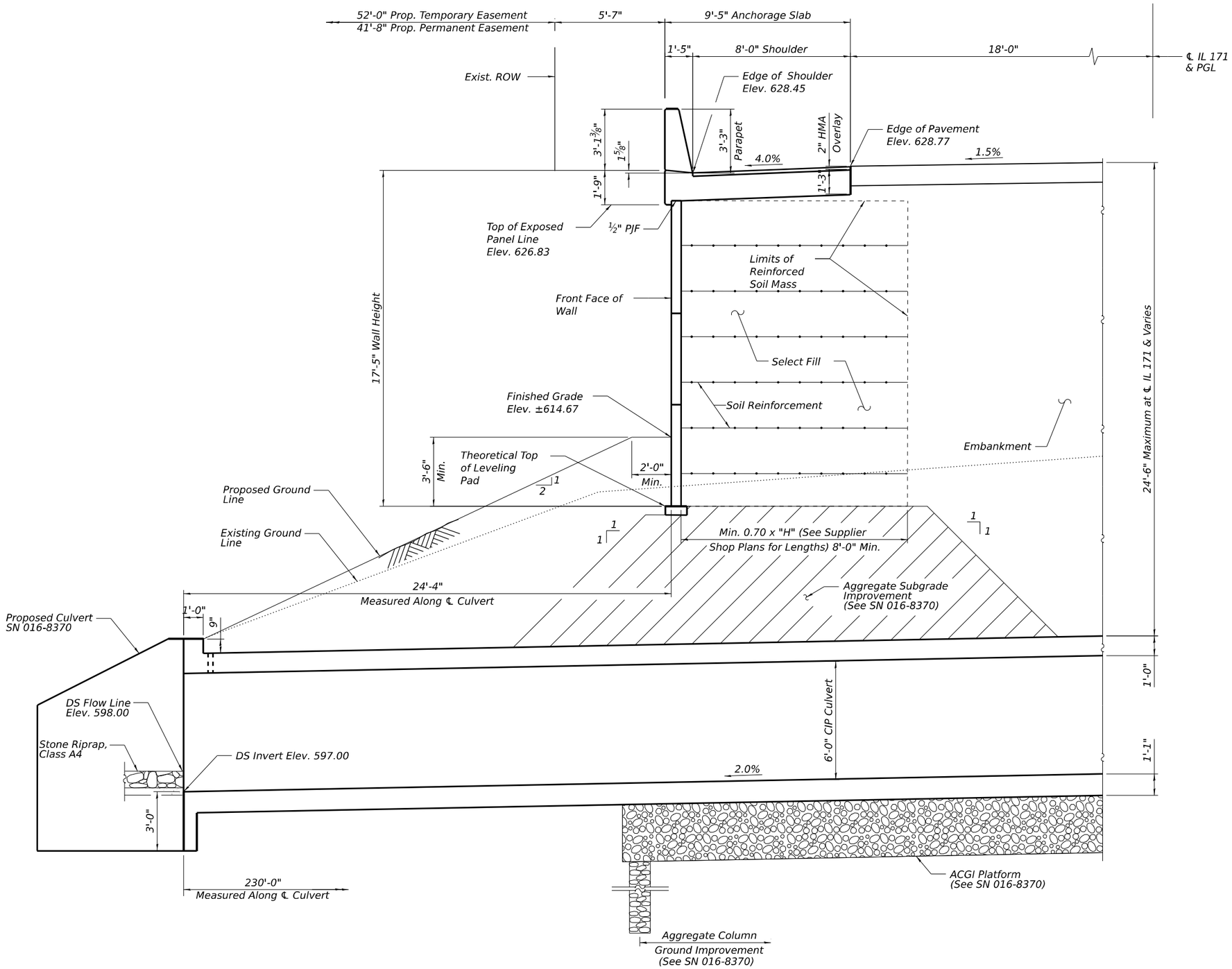
(Looking Northeast)

RETAINING WALL AND ANCHORAGE SLAB INFORMATION TABLE

Feature	Point	Station	LOCATION "A"		LOCATION "B"		Location "C"	Location "D"		Location "E"
			OFFSET	ELEV.	OFFSET	ELEV.	ELEV.	OFFSET	ELEV.	ELEV.
Start of Panel 1	1	317+80.14	12.00	614.95	20.00	614.63	618.30	21.08	613.02	614.26
Start of Panel 2	2	318+70.14	12.00	617.59	20.00	617.27	620.93	21.08	615.65	615.39
Kink 1	3	319+08.89	12.00	618.73	20.00	618.41	622.07	21.08	616.79	615.81
Start of Panel 3	4	319+68.33	13.19	620.46	21.19	620.14	623.81	22.27	618.53	615.81
Kink 2/ start curve	5	320+58.26	14.99	623.08	22.99	622.76	626.43	24.07	621.15	615.81
Start of Panel 4	6	320+58.32	14.99	623.09	22.99	622.77	626.43	24.07	621.15	615.67
Start of Panel 5	7	321+48.70	17.22	625.53	25.22	625.21	628.88	26.30	623.59	615.79
3	8	322+39.13	18.00	627.64	26.00	627.32	630.99	27.08	625.71	615.67
Start of Panel 7	9	323+29.57	18.00	629.13	26.00	628.81	632.47	27.08	627.19	615.05
Start of Panel 8	10	324+20.00	18.00	629.96	26.00	629.64	633.31	27.08	628.03	614.95
Bump out Point 1	11	324+32.66	18.00	630.03	26.00	629.71	633.37	27.08	628.09	614.98
Bump out Point 2	12	324+42.69	18.00	630.07	26.00	629.75	633.42	37.08	628.13	615.01
Bump out Point 3	13	324+52.65	18.00	630.10	26.00	629.78	633.45	37.08	628.17	615.04
Bump out Point 4	14	324+62.70	18.00	630.13	26.00	629.81	633.48	27.08	628.19	615.07
Start of Panel 9	15	325+10.44	18.00	630.15	26.00	629.83	633.49	27.08	628.21	615.09
Bump out Point 1	16	325+28.01	18.00	630.11	26.00	629.79	633.45	27.08	628.17	614.97
Bump out Point 2	17	325+38.04	18.00	630.07	26.00	629.75	633.42	37.08	628.14	614.89
Bump out Point 3	18	325+48.00	18.00	630.03	26.00	629.71	633.38	37.08	628.10	614.82
Bump out Point 4	19	325+58.04	18.00	629.98	26.00	629.66	633.33	27.08	628.05	614.75
Start of Panel 10/ Kink Point 4/ curve end	20	326+00.88	18.00	629.83	26.00	629.51	633.17	27.08	627.89	614.44
CL Culvert	21	326+89.13	18.00	628.77	26.00	628.45	632.11	27.08	626.83	614.67
Start of Panel 11	22	326+90.88	18.00	628.74	26.00	628.42	632.09	27.08	626.80	614.68
Start of Panel 12	23	327+80.88	18.00	626.99	26.00	626.67	630.34	27.08	625.06	614.56
Start of Panel 13	24	328+70.88	18.00	624.60	26.00	624.28	627.94	27.08	622.66	613.88
Start of Panel 14	25	329+60.88	18.00	621.82	26.00	621.50	625.17	27.08	619.89	613.03
Kink 5	26	330+28.12	18.00	619.75	26.00	619.43	623.09	27.08	617.81	612.68
Start of Panel 15	27	330+58.11	17.40	618.83	25.40	618.51	622.18	26.48	616.90	612.71
Start of Panel 16	28	331+48.09	15.60	616.43	23.60	616.11	619.78	24.68	614.49	612.54
Start of Panel 17	29	332+38.08	13.80	614.68	21.80	614.36	618.03	22.88	612.74	612.41
End of Panel 17	30	333+28.06	12.00	613.54	20.00	613.22	616.89	21.08	611.61	612.55

NOTES:

1. For Existing ROW, proposed temporary and permanent easement offset dimensions, see sheets S-1 through S-3.
2. The MSE wall supplier's internal stability design shall account for the anchorage slab's bearing pressure surcharge of 1.0 ksf and horizontal bearing pressure of 0.5 kips/ft of wall.
3. The limits and quantities of removal and replacement of Unsuitable Material for Structures shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions encountered in the field.
4. Ground Improvements are recommended between Stations 324+25 and 327+25 in form of Aggregate Columns or Rigid Inclusions. A load transfer layer (AGCI Platform) consisting of compacted material with geogrid reinforcement is required to be constructed on top of columns. The cost of the transfer layer with geogrid reinforcement shall be included in the cost of Aggregate Column Ground Improvement. The Contractor shall submit design calculations and shop drawings sealed by an Illinois Licensed Professional Engineer in accordance with the Special Provisions.
5. The MSE wall supplier is alerted to the fact that up to 5 inches of settlement are anticipated (if no ground improvements are implemented) as shown in the Structural Geotechnical Report. Tolerable settlement with ground improvements shall be as specified in Special Provision Aggregate Column Ground Improvement.
6. For Proposed Temporary and Pernament Easement, see General Plan and Elevation Sheets.



SECTION AT CULVERT SN 016-8370 (Looking Northeast)

NOTE:

1. See Sheet S-5 for notes.
2. See Sheet SC-2 (SN 016-8370) for section through barrel showing Aggregate Column Ground Improvement Limits for SN 016-2310 and SN 016-8370.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

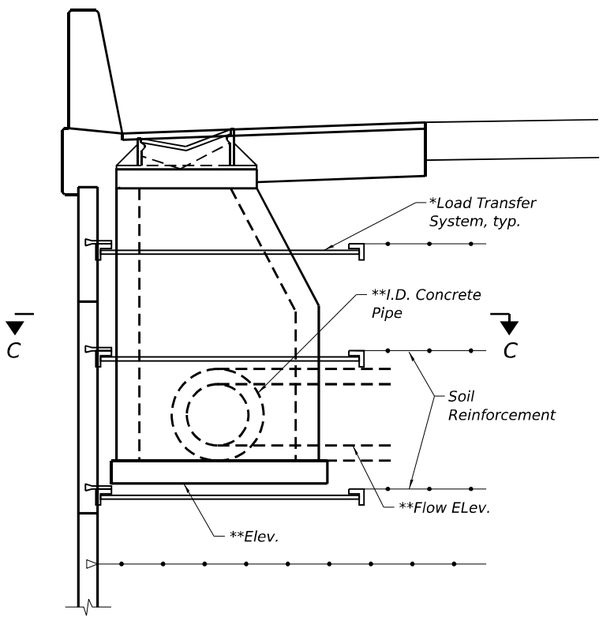
RETAINING WALL SECTIONS II
STRUCTURE NO. 016-2310

SHEET S-6 OF S-23 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	77	135

CONTRACT NO. 60R94

ILLINOIS FED. AID PROJECT

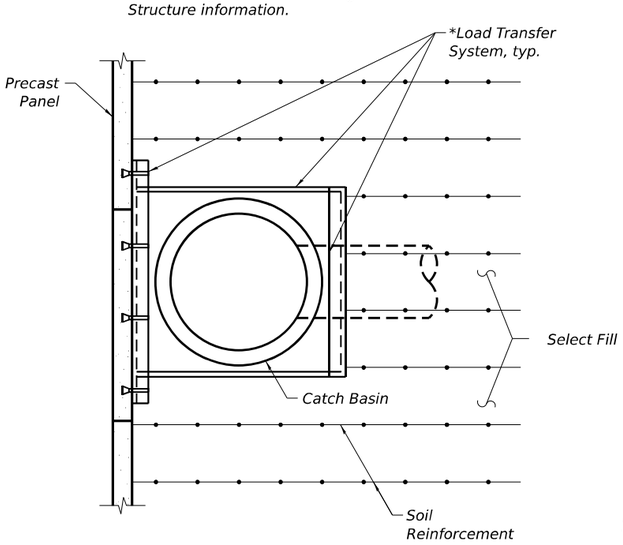


SECTION THRU CATCH BASIN

(Looking Northeast)

* M.S.E. supplier to design load transfer system to accomodate concrete pipe and catch basin.

** See Drainage Plans for Drainage Structure information.

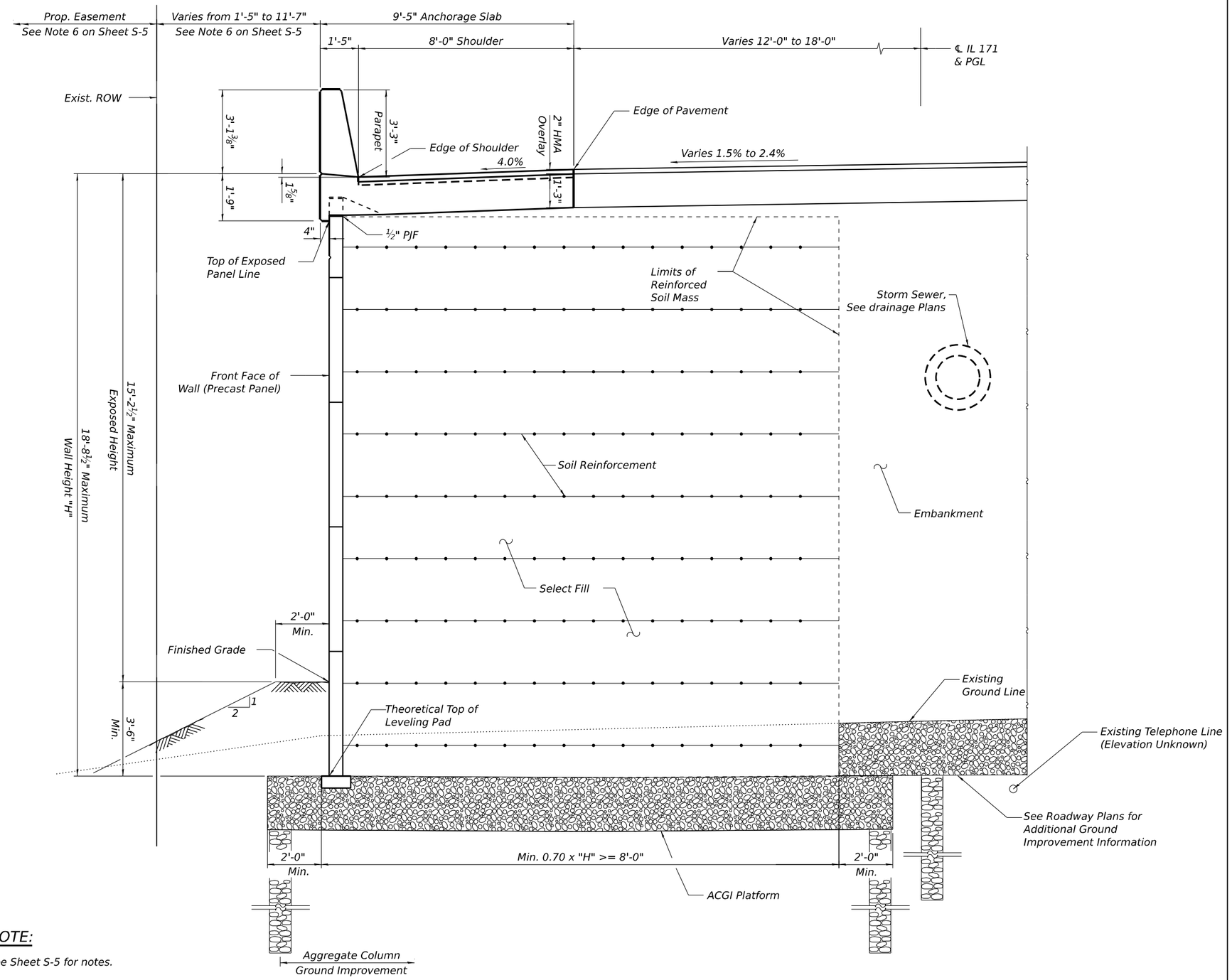


SECTION C-C

(Looking Northeast)

NOTE:

See Sheet S-5 for notes.



SECTION AT AGGREGATE COLUMN GROUND IMPROVEMENT

Typical between stations 324+75 and 327+25

(Looking Northeast)

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

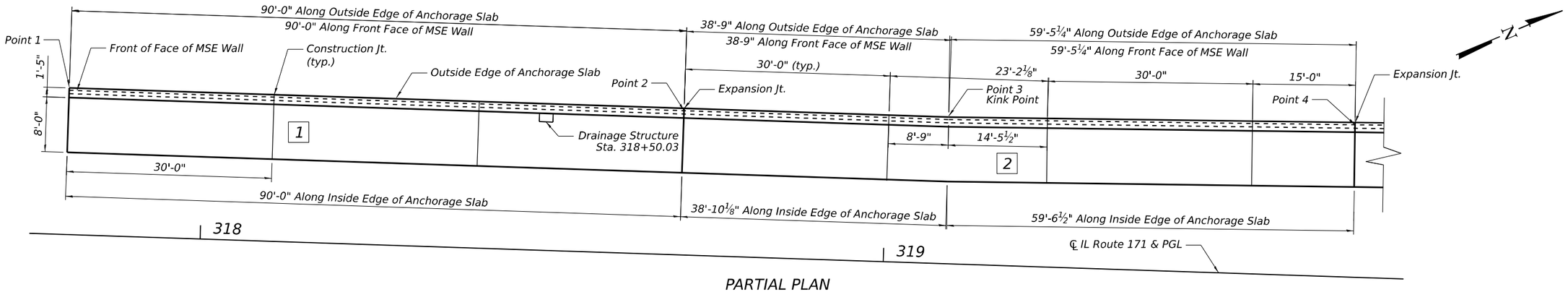
RETAINING WALL SECTION III AND DRAIN DETAILS
STRUCTURE NO. 016-2310

SHEET S-7 OF S-23 SHEETS

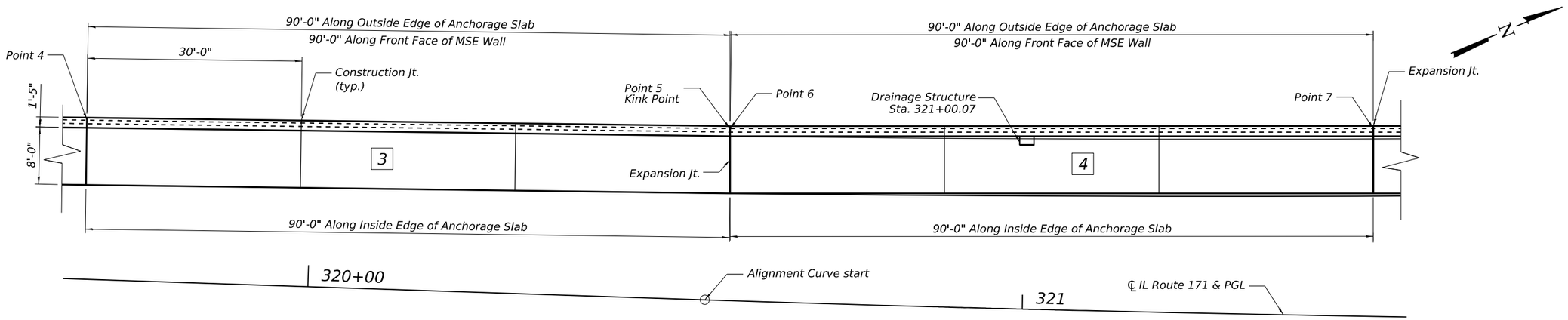
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	78	135

CONTRACT NO. 60R94

ILLINOIS | FED. AID PROJECT



PARTIAL PLAN



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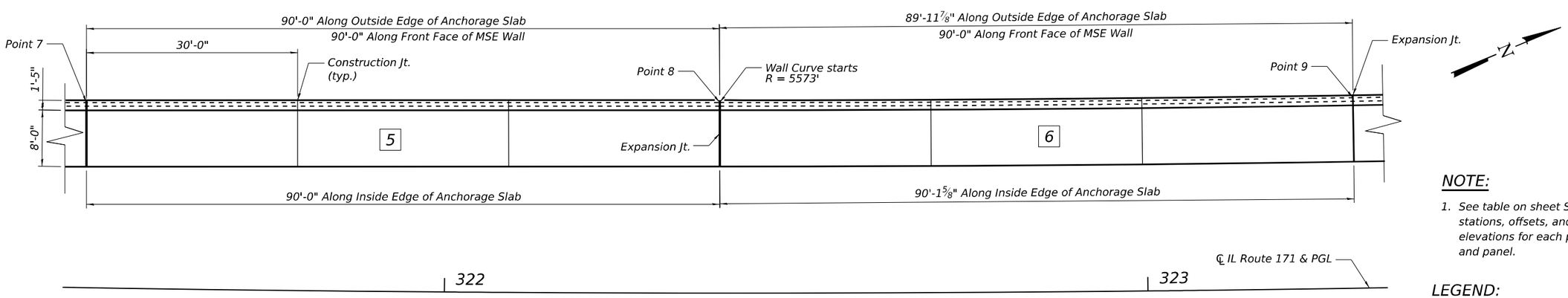

PARTIAL PLAN

NOTE:

1. See table on sheet S-5 for stations, offsets, and elevations for each point and panel.

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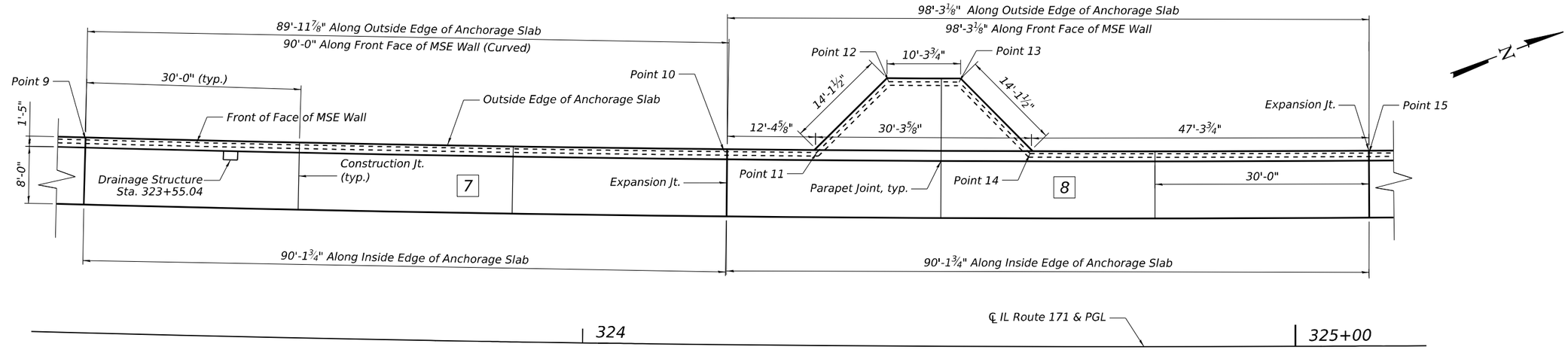
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ANCHORAGE SLAB PLAN I
STRUCTURE NO. 016-2310

SHEET S-8 OF S-23 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	79	135
		CONTRACT NO. 60R94		
		ILLINOIS	FED. AID PROJECT	



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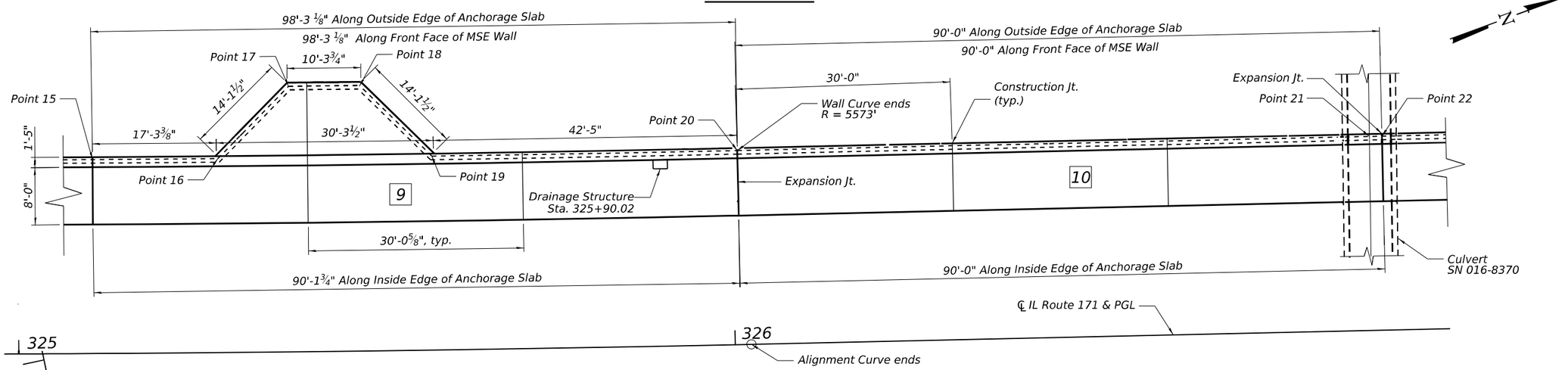

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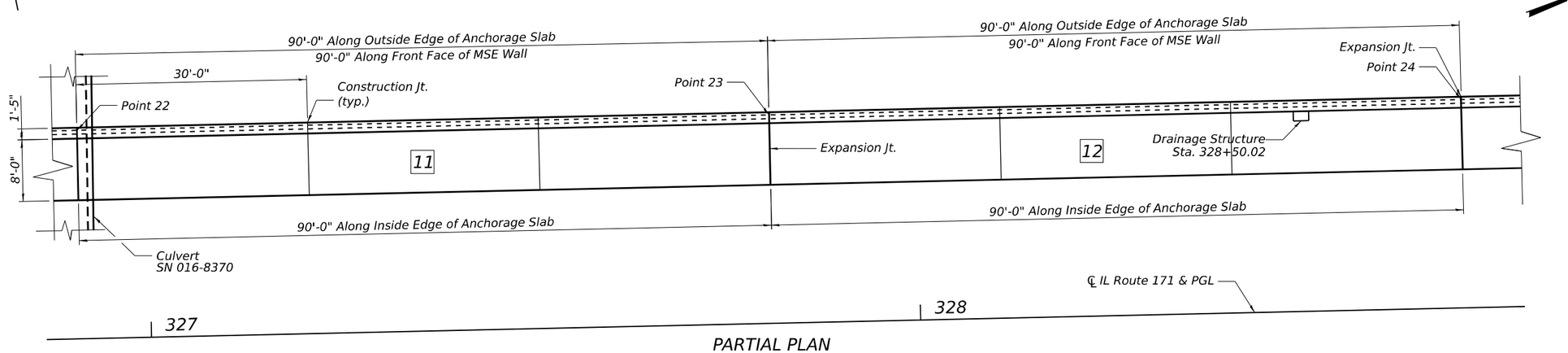

PARTIAL PLAN

NOTE:

1. See table on sheet S-5 for stations, offsets, and elevations for each point and panel.

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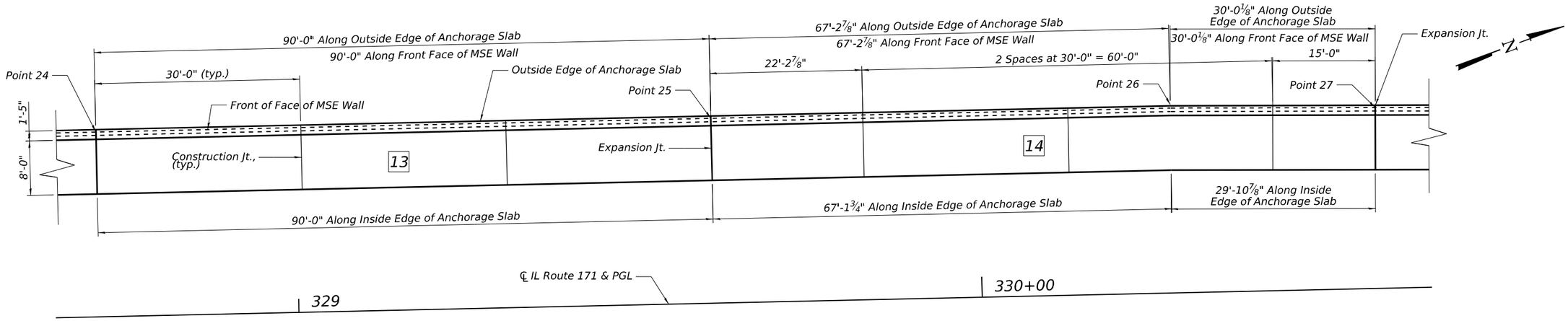
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ANCHORAGE SLAB PLAN II
STRUCTURE NO. 016-2310

SHEET S-9 OF S-23 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	80	135
		CONTRACT NO. 60R94		
		ILLINOIS	FED. AID PROJECT	



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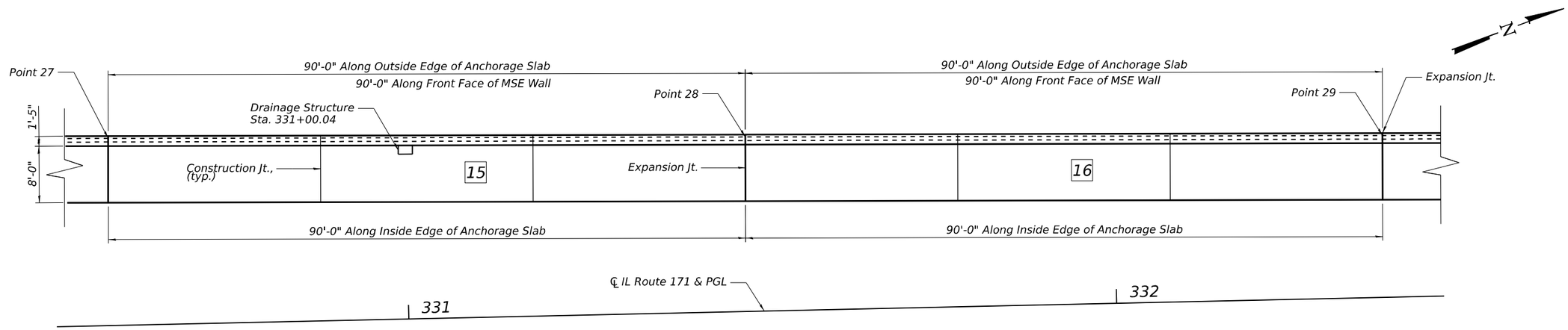

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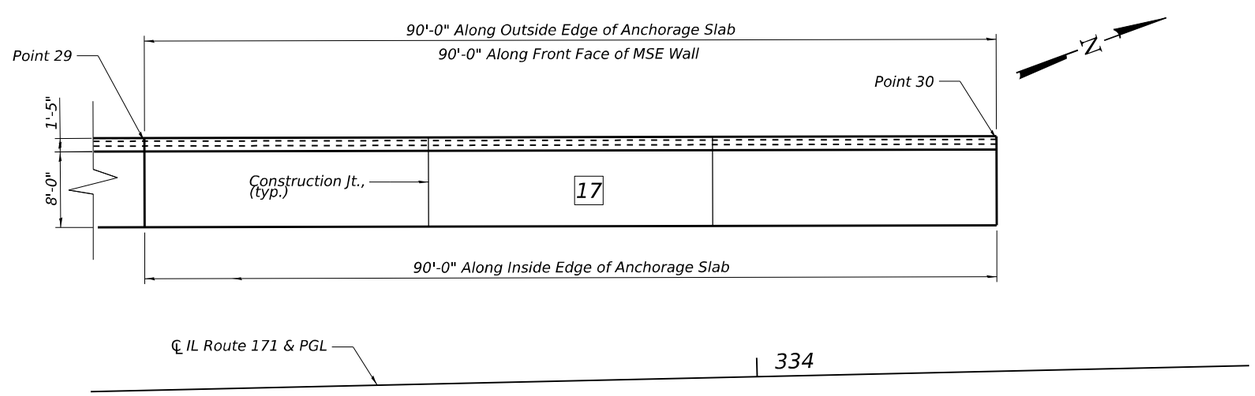

PARTIAL PLAN

NOTE:

1. See table on sheet S-5 for station, offsets, and elevations of each point and panel.

LEGEND:

X Panel Number

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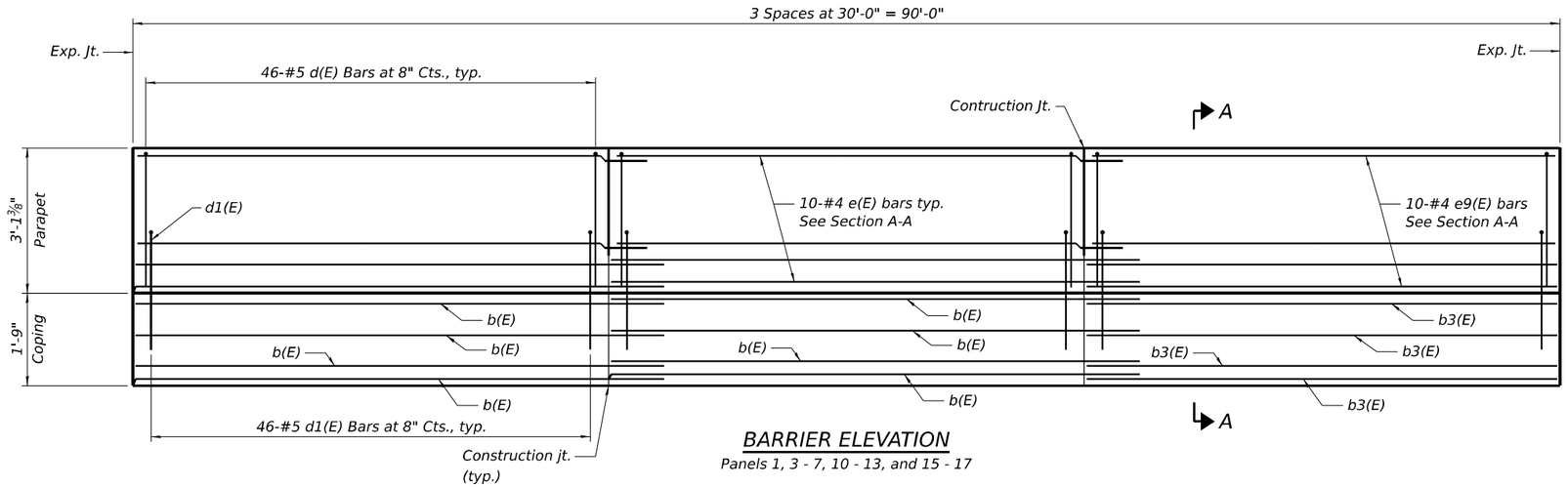
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ANCHORAGE SLAB PLAN III
STRUCTURE NO. 016-2310

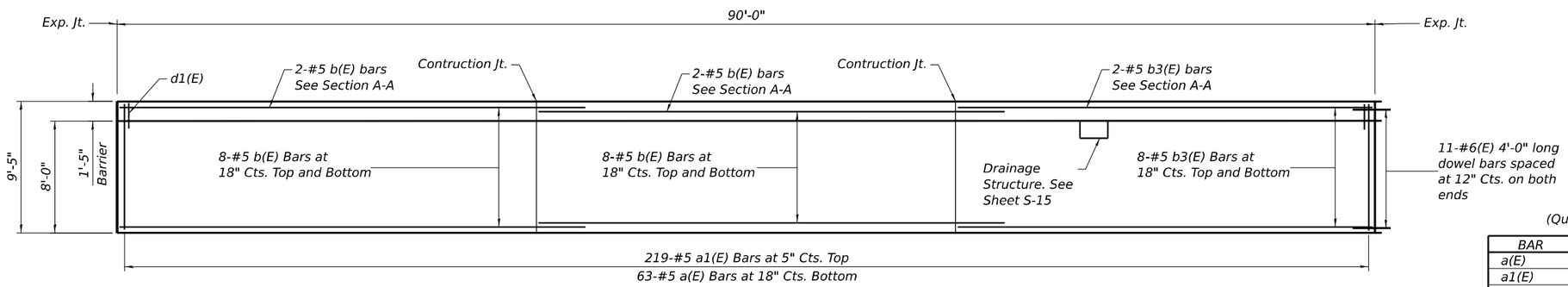
SHEET S-10 OF S-23 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	81	135
		CONTRACT NO. 60R94		
	ILLINOIS	FED. AID PROJECT		



BARRIER ELEVATION

Panels 1, 3 - 7, 10 - 13, and 15 - 17



PLAN

Panels 1, 3 - 7, 10 - 13, and 15 - 17

BILL OF MATERIAL

(Quantities Reflect Total for all 13- 90'-0" Panels)

BAR	NO. BARS	SIZE	LENGTH	SHAPE
a(E)	819	#5	9'-1"	
a1(E)	2,847	#5	10'-2"	
b(E)	468	#5	33'-4"	
b3(E)	234	#5	29'-8"	
d(E)	1,794	#5	6'-5"	
d1(E)	1,794	#5	7-6"	
e(E)	260	#4	32'-5"	
e9(E)	130	#4	29'-8"	

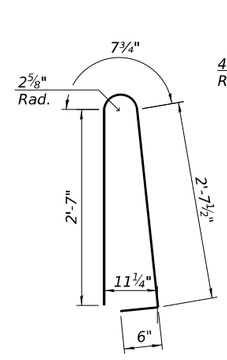
ITEM	UNIT	QUANTITY
Reinforcement Bars, Epoxy Coated	Lbs.	95,710
Protective Coat	Sq. Yd.	1,573
Concrete Superstructure	Cy. Yd.	670.8

NOTES:

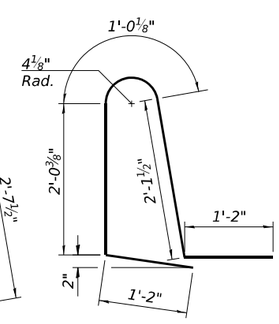
1. See sheet S-15 for Section A-A and joint details.
2. Bars indicated thus 8x3 - #5 etc. indicate 8 lines of bars with 3 lengths per line.
3. Anchorage slab concrete is paid as Concrete Superstructure.
4. For drainage structure locations, see Anchorage Slab sheets S-8 through S-10 and Drainage plans.
5. Cost of dowels is included in Concrete Superstructure Pay item.

MINIMUM BAR LAP

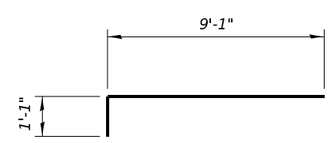
#4 Bars 2'-5"
#5 Bars 3'-4"



BAR d(E)



BAR d1(E)



BAR a1(E)

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PLOT DATE =	CHECKED - EKM	REVISED -

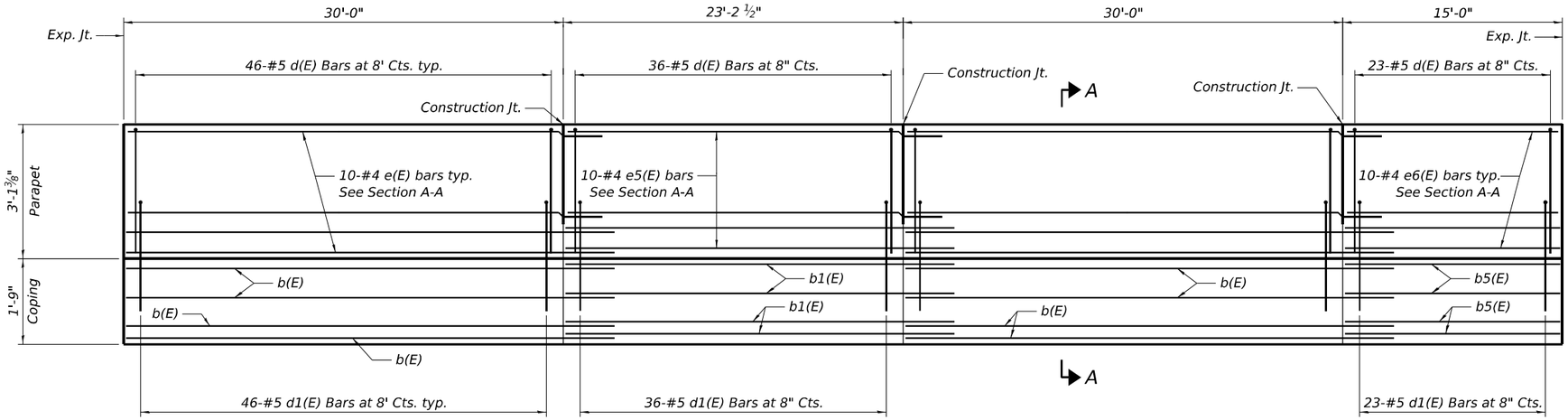
5/21/2025 10:19:52 AM

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ANCHORAGE SLAB REINFORCEMENT I
STRUCTURE NO. 016-2310

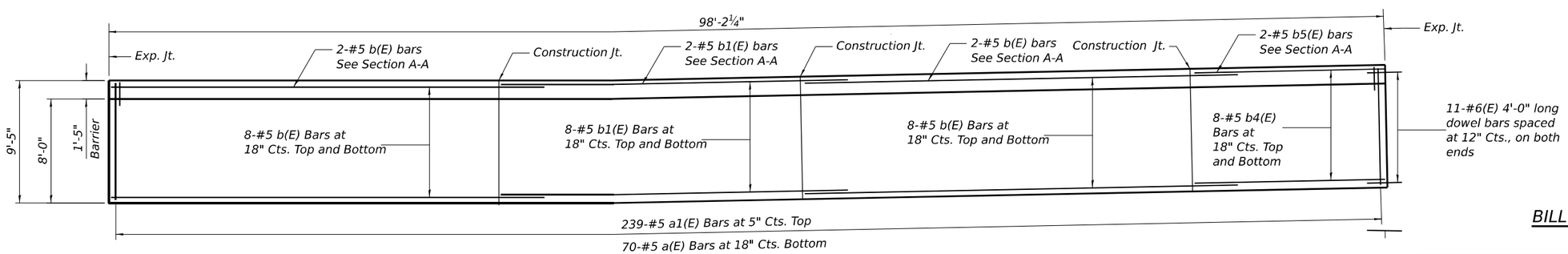
SHEET S-11 OF S-23 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	82	135
		CONTRACT NO. 60R94		
		ILLINOIS	FED. AID PROJECT	



BARRIER ELEVATION

(Panel 2)



PLAN

(Panel 2)

BILL OF MATERIAL

(Panel 2)

BAR	NO. BARS	SIZE	LENGTH	SHAPE
a(E)	70	#5	9'-1"	
a1(E)	239	#5	10'-2"	
b(E)	36	#5	33'-4"	
b1(E)	18	#5	26'-7"	
b4(E)	18	#5	14'-8"	
d(E)	152	#5	6'-5"	
d1(E)	152	#5	7'-6"	
e(E)	20	#4	32'-5"	
e5(E)	10	#4	25'-8"	
e6(E)	10	#4	14'-8"	

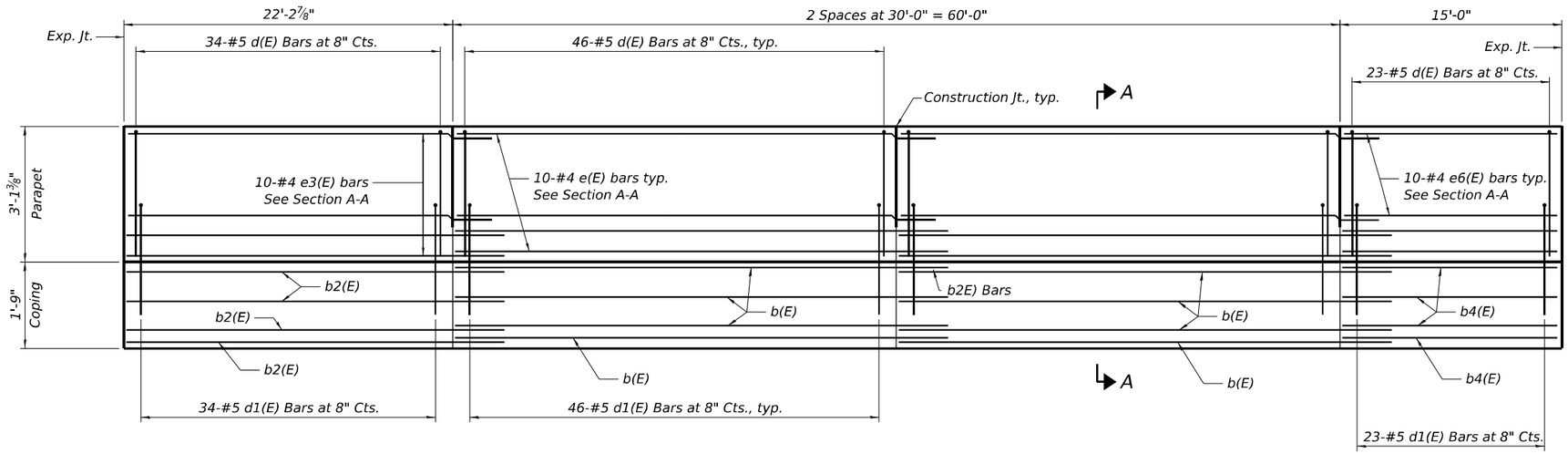
ITEM	UNIT	QUANTITY
Reinforcement Bars, Epoxy Coated	Lbs.	8,120
Protective Coat	Sq. Yd.	132
Concrete Superstructure	Cy. Yd.	56.4

NOTES:

1. See sheet S-15 for Section A-A and joint details.
2. Bars indicated thus 8x3 - #5 etc. indicate 8 lines of bars with 3 lengths per line.
3. Anchorage slab concrete is paid as Concrete Superstructure.
4. For drainage structure locations, see Anchorage Slab sheets S-8 through S-10 and Drainage plans.
5. Cost of dowels is included in Concrete Superstructure Pay item.

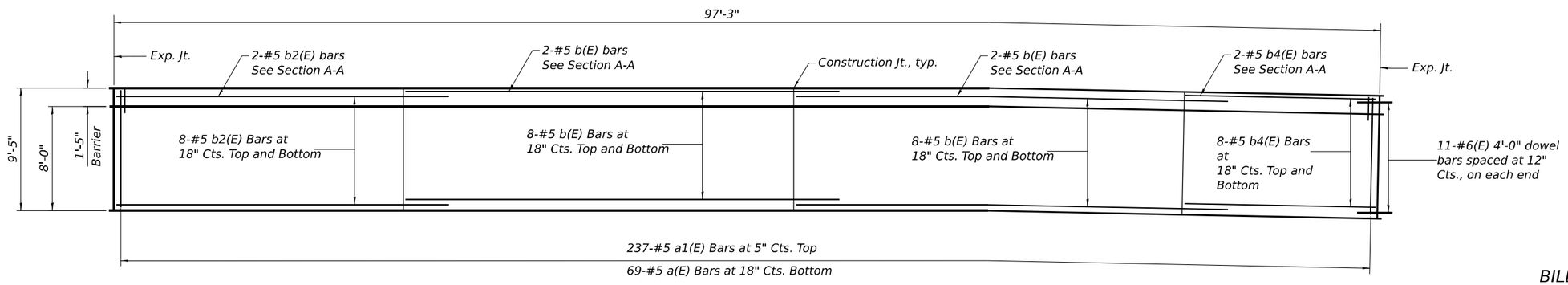
MINIMUM BAR LAP

#4 Bars 2'-5"
#5 Bars 3'-4"



BARRIER ELEVATION

(Panel 14)



PLAN

(Panel 14)

NOTES:

1. See sheet S-15 for Section A-A and joint details.
2. Bars indicated thus 8x3 - #5 etc. indicate 8 lines of bars with 3 lengths per line.
3. Anchorage slab concrete is paid as Concrete Superstructure.
4. For drainage structure locations, see Anchorage Slab sheets S-8 through S-10 and Drainage plans.
5. Cost of dowels is included in Concrete Superstructure Pay item.

MINIMUM BAR LAP

#4 Bars 2'-5"
#5 Bars 3'-4"

BILL OF MATERIAL

(Panel 14)

BAR	NO. BARS	SIZE	LENGTH	SHAPE
a(E)	69	#5	9'-1"	
a1(E)	237	#5	10'-2"	
b(E)	36	#5	33'-4"	
b2(E)	18	#5	25'-7"	
b4(E)	18	#5	14'-8"	
d(E)	149	#5	6'-5"	
d1(E)	149	#5	7'-6"	
e(E)	20	#4	32'-5"	
e3(E)	10	#4	24'-8"	
e6(E)	10	#4	14'-8"	

ITEM	UNIT	QUANTITY
Reinforcement Bars, Epoxy Coated	Lbs.	8,040
Protective Coat	Sq. Yd.	130
Concrete Superstructure	Cy. Yd.	55.8

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ANCHORAGE SLAB REINFORCEMENT III
STRUCTURE NO. 016-2310

SHEET S-13 OF S-23 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	84	135

CONTRACT NO. 60R94

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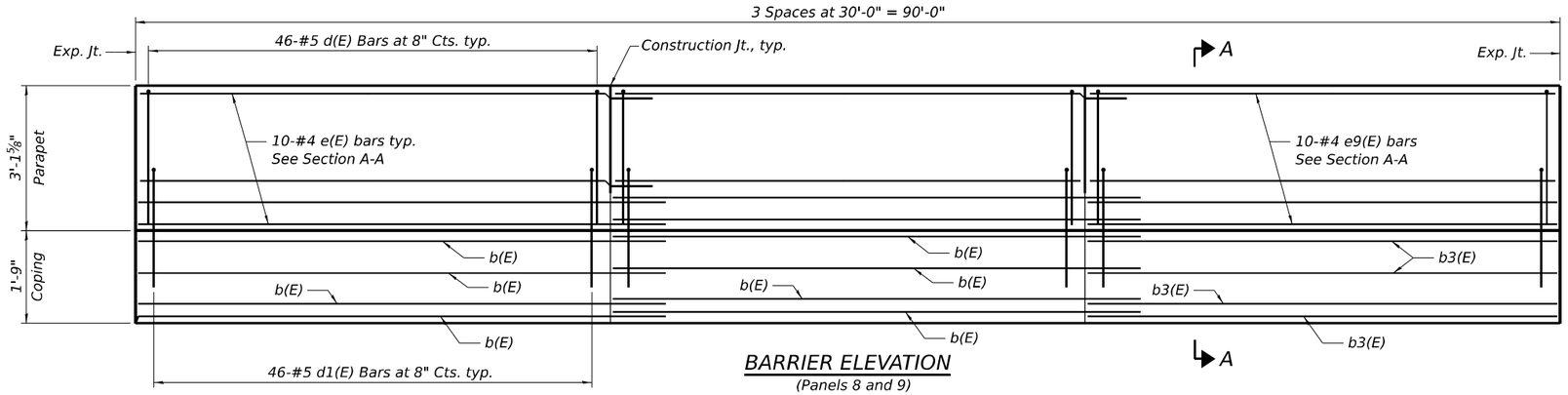
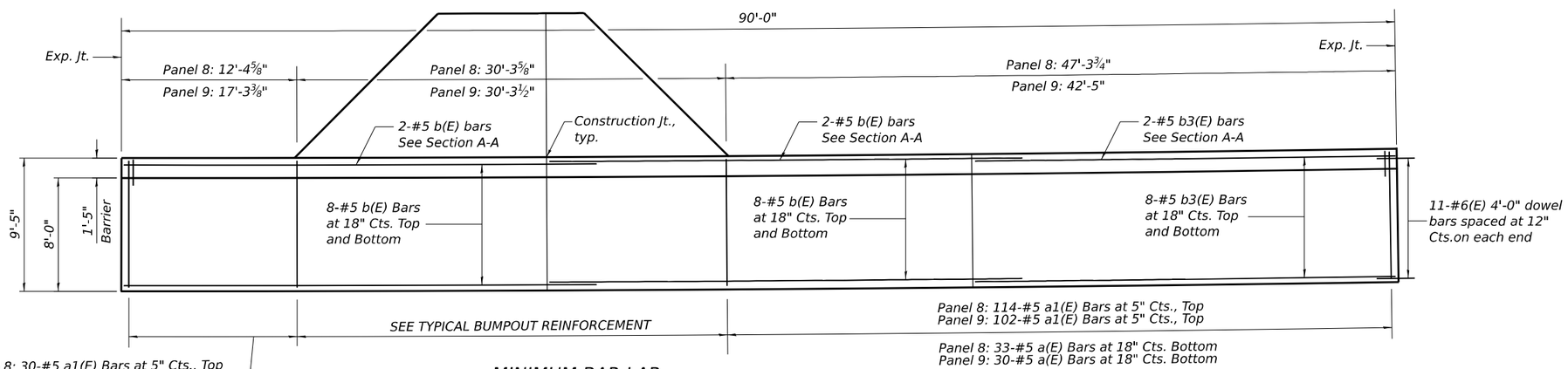


BARRIER ELEVATION

(Panels 8 and 9)



MINIMUM BAR LAP

#4 Bars 2'-5"
#5 Bars 3'-4"

PLAN

(Panels 8 and 9)

NOTES:

1. See sheet S-15 for Section A-A and joint details.
2. Bars indicated thus 8x3 - #5 etc. indicate 8 lines of bars with 3 lengths per line.
3. Anchorage slab concrete is paid as Concrete Superstructure.
4. For drainage structure locations, see Anchorage Slab sheets S-8 through S-10 and Drainage plans.
5. Contractor shall coordinate with electrical engineer the exact location of structure embedded conduit before Anchorage Slab concrete placement.
6. Cost of dowels is included in Concrete Superstructure Pay item.

BILL OF MATERIAL

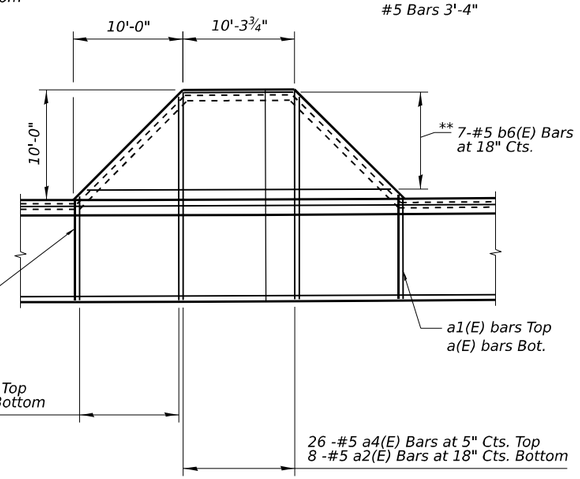
(Quantities Reflect Total for 2 Panels)

BAR	NO. BARS	SIZE	LENGTH	SHAPE
a(E)	86	#5	9'-1"	
a1(E)	288	#5	10'-2"	
a2(E)	16	#5	19'-1"	
a3(E)	46	#5	30'-4"	
a4(E)	52	#5	20'-2"	
a5(E)	12	#5	28'-2"	
b(E)	72	#5	32'-3"	
b3(E)	36	#5	29'-8"	
b6(E)	14	#5	39'-11"	
b7(E)	2	#5	10'-2"	
d(E)	276	#5	6'-5"	
d1(E)	276	#5	7'-6"	
e(E)	40	#4	32'-5"	
e9(E)	20	#4	29'-8"	

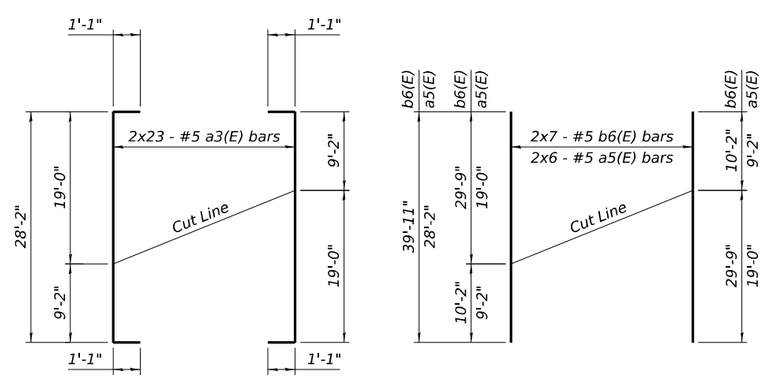
ITEM	UNIT	QUANTITY
Reinforcement Bars, Epoxy Coated	Lbs.	16,580
Protective Coat	Sq. Yd.	242
Concrete Superstructure	Cy. Yd.	122.2

* "a" bars in skew portion of slab shall be ordered full length & cut to fit. Balance of bar to be used in opposite end of bump out.

** "b" bars in skew portion of slab shall be ordered full length & cut to fit. Balance of bar to be used in opposite face of bump out.



TYPICAL BUMP OUT REINFORCEMENT



FIELD CUTTING DIAGRAMS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ANCHORAGE SLAB REINFORCEMENT 4
STRUCTURE NO. 016-2310

SHEET S-14 OF S-23 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	85	135

CONTRACT NO. 60R94

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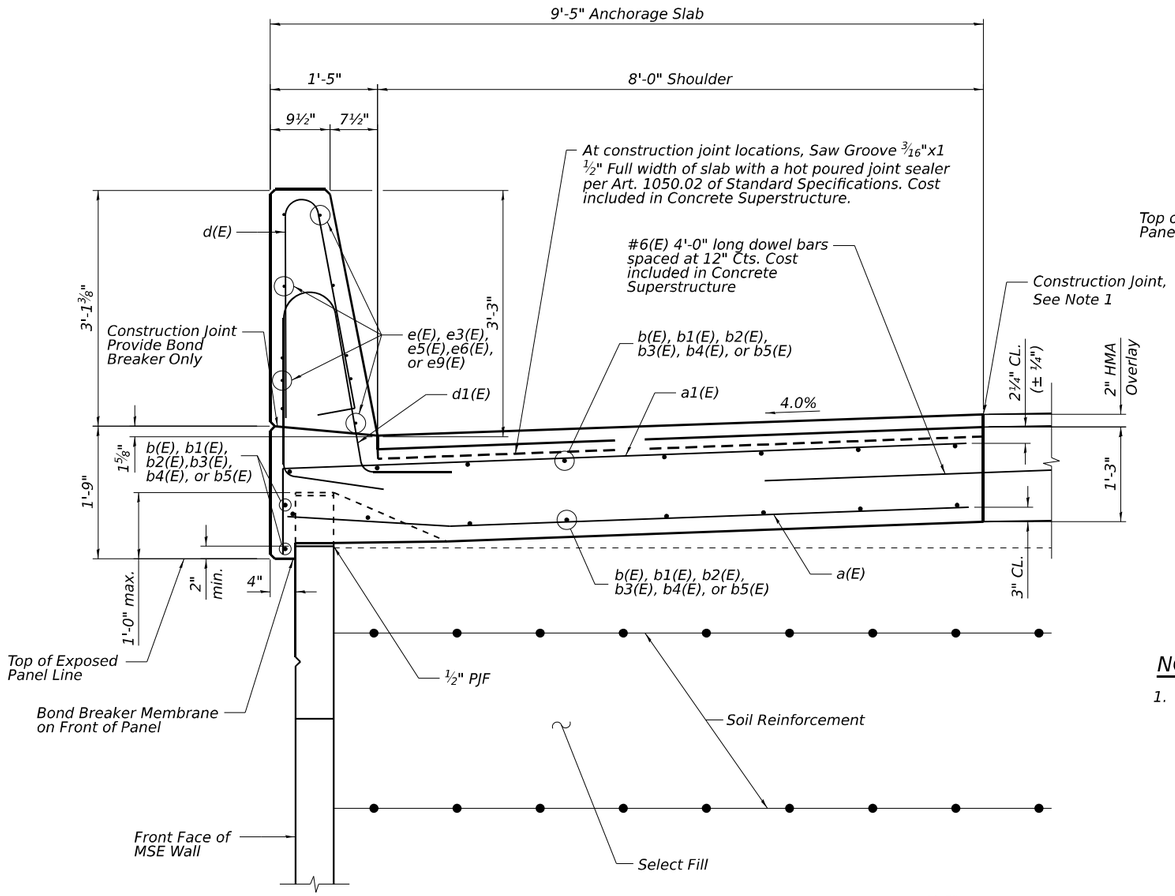
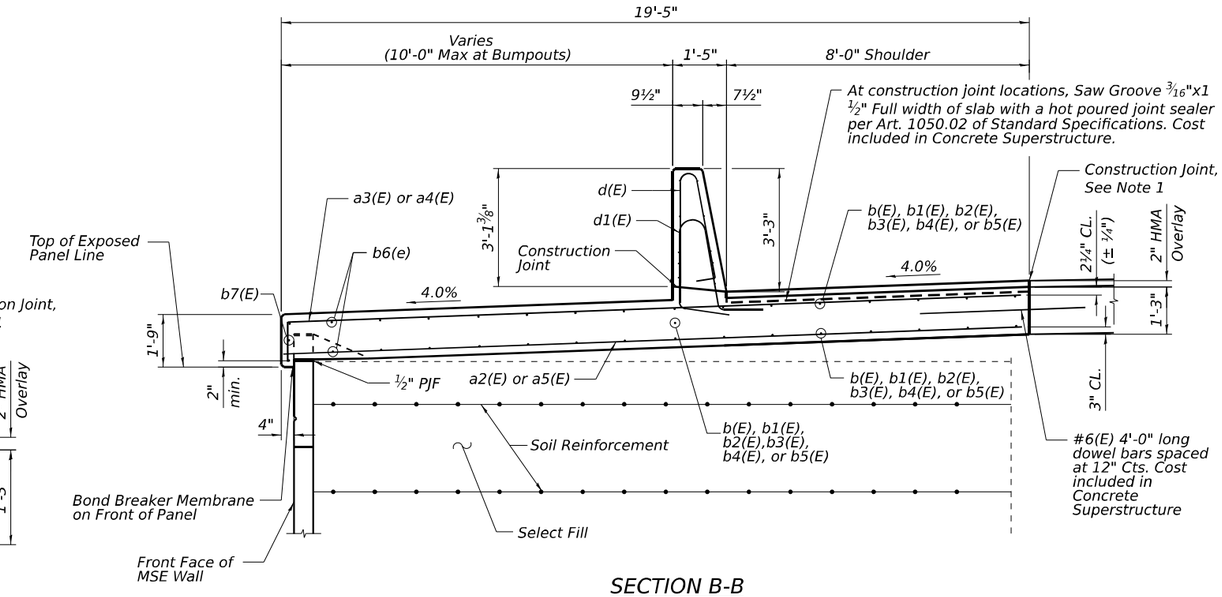


SECTION A-A

Section through Anchorage Slab on retaining wall
(Looking Northeast)



SECTION B-B

Section through Anchorage Slab on retaining wall
At Bump-Out
(Looking Northeast)

NOTES:

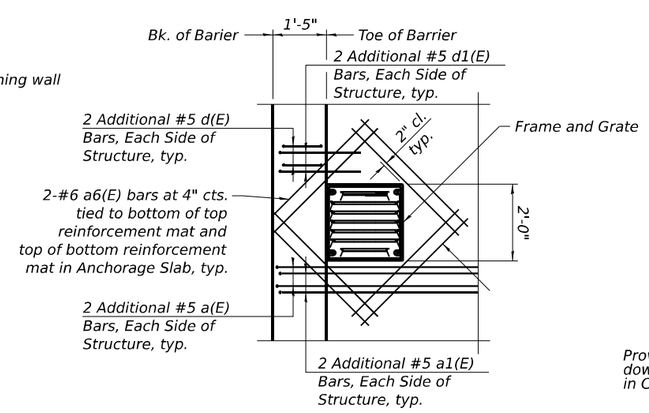
1. Provide Bond Breaker only if transverse pavement and anchorage slab construction joints are not aligned.

BILL OF MATERIAL

(Drainage Structure Reinforcement Total)

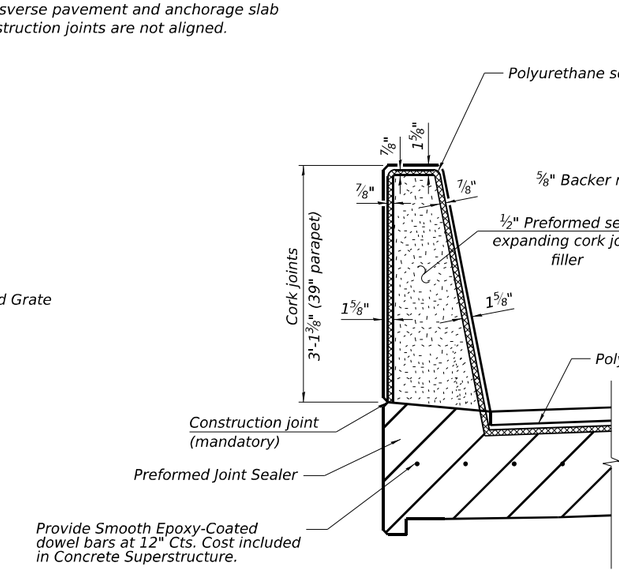
BAR	NO. BARS	SIZE	LENGTH	SHAPE
a(E)	24	#5	9'-1"	
a1(E)	24	#5	10'-2"	
a6(E)	96	#6	4'-0"	
d(E)	24	#5	6'-5"	
d1(E)	24	#5	8'-8"	

ITEM	UNIT	QUANTITY
Reinforcement Bars, Epoxy Coated	Lbs.	1,410



PLAN AT DRAINAGE STRUCTURE

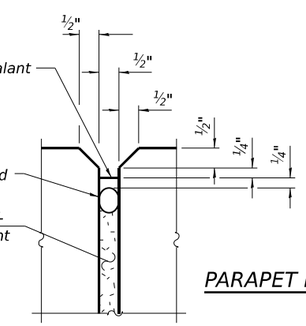
Note:
Cut transverse reinforcement along with longitudinal reinforcement in Anchorage Slab as necessary to clear frame and grate (6) locations.



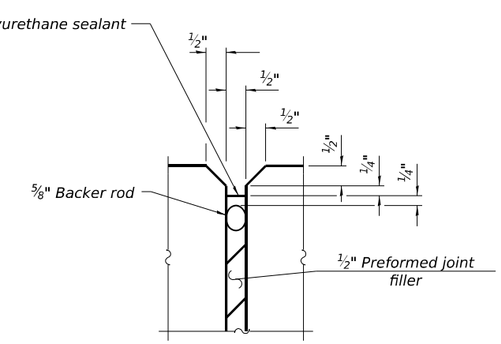
EXPANSION JOINT DETAILS

(Looking Northeast)

Note:
The polyurethane sealant shall be according to Article 1050.04 of the Standard Specifications and the color shall be gray.



PARAPET EXPANSION JOINT



ANCHORAGE SLAB EXPANSION JOINT

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ANCHORAGE SLAB CROSS-SECTIONS
STRUCTURE NO. 016-2310

SHEET S-15 OF S-23 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	86	135

CONTRACT NO. 60R94
ILLINOIS FED. AID PROJECT

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Page 1 of 1

Date 6/11/21

ROUTE 95th Street DESCRIPTION Culvert Boring LOGGED BY EH

SECTION IL 171 & 95th Street LOCATION IL 171, SEC. 22, TWP. 37N, RNG. 12E,
Latitude 41.7171126, Longitude -87.897224

COUNTY COOK DRILLING RIG CME-75 HAMMER TYPE AUTO
DRILLING METHOD HSA HAMMER EFF (%) 91

STRUCT. NO. SN 016-8370
Station 326+89.13

BORING NO. CB-01
Station 326+36.85
Offset 31.99ft RT
Ground Surface Elev. 611.72 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter None ft
Upon Completion N/A ft
After N/A Hrs. N/A ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
4 inches of Topsoil	611.39				
Stiff Brown and Black, Moist to Very Moist CLAY LOAM (CL-S)			6		
			2 6	1.0 P	12
		-5	3		
			2 4	1.0 P	38
	606.22				
Medium Stiff to Stiff Brown, Moist to Very Moist SILTY CLAY, with sand and gravel (CL)			6		
			6 9	1.0 P	27
			1		
			2 1	1.0 P	20
		-10			
			7		
			5 4	0.8 B	21
Cobbles at 13.5-15 feet			11		
			9 7		9
		-15			
			4		
			4 8	0.5 P	24
			9		
			9 9	1.3 B	31
		-20			
Medium Stiff to Stiff Brown, Moist to Very Moist SILTY CLAY, with sand and gravel (CL) *(continued)*			2		
			2 2	1.3 B	24
Cobbles at 23.5-25 feet			50/6"		
				0.5 P	41
	586.72	-25			
End of Boring					
		-30			
		-35			
		-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Page 1 of 1

Date 6/21/21

ROUTE 95th Street DESCRIPTION Culvert Boring LOGGED BY JB

SECTION IL 171 & 95th Street LOCATION IL 171, SEC. 22, TWP. 37N, RNG. 12E,
Latitude 41.7170257, Longitude -87.8971602

COUNTY COOK DRILLING RIG Diedrich D-50 HAMMER TYPE AUTO
DRILLING METHOD HSA HAMMER EFF (%) 92

STRUCT. NO. SN 016-8370
Station 326+89.13

BORING NO. CB-02
Station 326+40.13
Offset 67.99ft RT
Ground Surface Elev. 612.06 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter None ft
Upon Completion N/A ft
After N/A Hrs. N/A ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
2 inches of Topsoil	611.90				
Stiff Brown and Dark Brown, Moist SILTY CLAY, trace gravel (CL)			2		
			2 3	1.3 B	16
		-5			
			2		
			2 2	1.3 B	20
			1		
			1 2	1.0 B	15
			1		
			1 2	1.0 B	21
		-10			
	601.06				
Loose to Medium Dense Brown, Moist GRAVEL, with clay and sand (GP)			3		
			5 8		11
No recovery at 13.5-15 feet			3		
			3 5		NR
		-15			
	596.06				
Medium Dense Brown, Wet SANDY CLAY LOAM, with gravel and cobbles (SC/SM)			6		
			11 5		17
	593.56				
Soft Brown, Moist CLAY LOAM, with gravel (CL-S)			2		
			3 3	0.4 B	20
		-20			
Soft Brown, Moist CLAY LOAM, with gravel (CL-S) *(continued)*			2		
			2 4	0.4 B	23
			4		
			7 9	0.4 B	19
	587.06	-25			
End of Boring					
		-30			
		-35			
		-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Page 1 of 1

Date 6/17/21

ROUTE 95th Street DESCRIPTION Retaining Wall Boring LOGGED BY JB

SECTION IL 171 & 95th Street LOCATION IL 171, SEC. 22, TWP. 37N, RNG. 12E,
Latitude 41.7162446, Longitude -87.9002941

COUNTY COOK DRILLING RIG Diedrich D-50 HAMMER TYPE AUTO
DRILLING METHOD HSA HAMMER EFF (%) 92

STRUCT. NO. SN 016-2310
Station Sta. 317+80.13 to 333+27.91

BORING NO. RWB-03
Station 317+44.00
Offset 43.11ft RT
Ground Surface Elev. 611.97 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter 601.0 ft ▼
Upon Completion N/A ft
After N/A Hrs. N/A ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
3 inches of Topsoil	611.72				
Loose Brown, Moist SAND, trace gravel (SP)			4		
			4 3		6
	608.47				
Stiff to Very Stiff Brown, Moist SILTY CLAY, trace sand and gravel (CL/ML)			4		
			5 5	1.9 B	21
		-5			
Little recovery at 6-7.5 feet			13/4"		
				3.0 P	
			12		
			12 10	2.5 P	18
		-10			
		▼	8		
			11 9/2"	1.0 P	21
	598.47				
Dense Brown, Moist SAND, with gravel, trace clay (SPG)			18		
			28 9/1"		8
		-15			
	595.97				
Dense Gray, Moist SILT, with sand and gravel (ML)			6		
			20 6/1"		8
			23		
			25 6/1"		8
	591.97	-20			
End of Boring					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

MODEL: Default
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PLOT SCALE =	DRAWN - ZBD	REVISED -	
PLOT DATE =	CHECKED - EKM	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RETAINING WALL SOIL BORINGS I
STRUCTURE NO. 016-2310

SHEET S-16 OF S-23 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	87	135
		CONTRACT NO. 60R94		
		ILLINOIS	FED. AID PROJECT	

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Page 1 of 1

Date 6/17/21

ROUTE 95th Street DESCRIPTION Retaining Wall Boring LOGGED BY EH

SECTION IL 171 & 95th Street LOCATION IL 171, SEC. 22, TWP. 37N, RNG. 12E,
Latitude 41.7163001, Longitude -87.900071

COUNTY COOK DRILLING RIG Diedrich D-50 HAMMER TYPE AUTO
DRILLING METHOD HSA HAMMER EFF (%) 92

STRUCT. NO. SN 016-2310
Station Sta. 317+80.13 to 333+27.91

BORING NO. RWB-04
Station 318+8.19
Offset 42.74ft RT
Ground Surface Elev. 611.96 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter None ft
Upon Completion N/A ft
After N/A Hrs. N/A ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6 inches of Topsoil	611.46				
Loose Gray, Moist SANDY CLAY LOAM, with gravel (SC/SM)			3		
			2		9
			5		
Stiff Brown, Moist to Very Moist SILTY CLAY, trace sand and gravel (CL-ML)	608.46		1		
			2	1.3	27
		-5	2	B	
			3		
			5	1.3	17
			7	B	
Stiff to Hard Brown, Moist SILTY CLAY, with gravel and cobbles (CL/ML)	603.46		9		
			16	4.0	16
		-10	25	P	
			8		
			15	1.5	9
			23	P	
Auger refusal at 14 feet	597.96		50/3"		9
End of Boring		-15			
		-20			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Page 1 of 1

Date 6/17/21

ROUTE 95th Street DESCRIPTION Retaining Wall Boring LOGGED BY EH

SECTION IL 171 & 95th Street LOCATION IL 171, SEC. 22, TWP. 37N, RNG. 12E,
Latitude 41.7163728, Longitude -87.8998225

COUNTY COOK DRILLING RIG Diedrich D-50 HAMMER TYPE AUTO
DRILLING METHOD HSA HAMMER EFF (%) 92

STRUCT. NO. SN 016-2310
Station Sta. 317+80.13 to 333+27.91

BORING NO. RWB-05
Station 318+80.90
Offset 38.55ft RT
Ground Surface Elev. 612.42 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter None ft
Upon Completion N/A ft
After N/A Hrs. N/A ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium Dense Gray, Moist SANDY CLAY LOAM, with gravel (SC/SM)			7		
			5		7
			9		
Stiff Gray and Brown, Moist SILTY CLAY, with sand and gravel (CL/ML)	608.92		3		
			3	1.0	20
		-5	4	P	
Stiff to Hard Brown, Moist SILTY CLAY LOAM, trace sand and gravel (ML/CL)	606.42		5		
			8	2.5	15
			11	P	
			5		
			8	1.5	18
		-10	10	P	
			7		
			13	4.5	15
			14	P	
Stiff to Very Stiff Brown, Dry to Moist CLAY LOAM, with gravel and cobbles (CL-S)	598.92		12		
			48	3.0	11
		-15	37	P	
			11		
			50/5"	1.0	12
				P	
Split-spoon refusal at 19 feet	593.42		50/4"		5
End of Boring		-20			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Page 1 of 1

Date 6/16/21

ROUTE 95th Street DESCRIPTION Retaining Wall Boring LOGGED BY EH

SECTION IL 171 & 95th Street LOCATION IL 171, SEC. 22, TWP. 37N, RNG. 12E,
Latitude 41.7164652, Longitude -87.8995463

COUNTY COOK DRILLING RIG Diedrich D-50 HAMMER TYPE AUTO
DRILLING METHOD HSA HAMMER EFF (%) 92

STRUCT. NO. SN 016-2310
Station Sta. 317+80.13 to 333+27.91

BORING NO. RWB-06
Station 319+83.02
Offset 29.88ft RT
Ground Surface Elev. 611.98 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter None ft
Upon Completion N/A ft
After N/A Hrs. N/A ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium Dense Gray, Moist SILTY SAND, with gravel (SM)			7		
			9		5
			10		
Stiff Brown, Moist SILTY CLAY, trace sand and gravel (CL/ML)	608.48		3		
			4	1.0	14
		-5	4	P	
			7		
			10	1.5	15
			8	P	
			4		
			5	1.0	20
		-10	13	P	
			7		
			7	1.5	16
			7	P	
Very Stiff to Hard Brown, Moist CLAY LOAM, with gravel (CL-S)	598.48		8		
			42	4.5	7
		-15	29	P	
			6		
			17	3.0	13
			42	P	
Auger refusal at 17.5 feet	594.48				
End of Boring		-20			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

MODEL: Default
FILE NAME: P:\10-IL\13117-Ames-IDOT IL171 at 95th Street\Work\CADD\CADD_Sheets\D160R94-017-RetWall Soil Borings 2.dgn
5/21/2025 10:20:07 AM

COLLINS ENGINEERS INC.

USER NAME =	DESIGNED - MPR	REVISED -	
	CHECKED - EKM	REVISED -	
PLOT SCALE =	DRAWN - ZBD	REVISED -	
PLOT DATE =	CHECKED - EKM	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RETAINING WALL SOIL BORINGS II
STRUCTURE NO. 016-2310

SHEET S-16 OF S-23 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	88	135
		CONTRACT NO. 60R94		
	ILLINOIS	FED. AID PROJECT		

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Page 1 of 1

Date 6/16/21

ROUTE 95th Street DESCRIPTION Retaining Wall Boring LOGGED BY EH

SECTION IL 171 & 95th Street LOCATION IL 171, SEC. 22, TWP. 37N, RNG. 12E,
Latitude 41.716522, Longitude -87.8993169

COUNTY COOK DRILLING RIG Diedrich D-50 HAMMER TYPE AUTO
DRILLING METHOD HSA HAMMER EFF (%) 92

STRUCT. NO. SN 016-2310
Station Sta. 317+80.13 to 333+27.91

BORING NO. RWB-07
Station 320+28.98
Offset 29.59ft RT
Ground Surface Elev. 612.49 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter None ft
Upon Completion N/A ft
After N/A Hrs. N/A ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Stiff Brown, Moist CLAY LOAM, with gravel (CL-S)			6		
			7	1.5	10
			6	P	
			2		
			2	1.0	17
		-5	3	P	
			5		
			7	2.0	16
			7	P	
Very Stiff to Hard Brown, Moist SILTY CLAY LOAM, trace sand and gravel (ML/CL)	603.99		4		
			7	2.5	17
		-10	9	B	
			6		
			10	4.5	18
			12	P	
Hard Gray, Moist SILTY CLAY, trace sand and gravel (CL/ML)	598.99		4		
			7	6.3	17
		-15	10	B	
Stiff Gray, Moist SILTY CLAY LOAM, trace sand and gravel (ML/CL)	596.49		12		
			19	1.0	16
			18	P	
Dense Brown, Moist SAND, trace gravel (SP)	593.99		14		
			15		14
		-20	15		
Medium Dense to Very Dense Brown, Moist SANDY CLAY LOAM, with gravel and cobbles (SC/SM)	591.49		12		
			13		13
			13		
			12		
			33		9
		-25	28		
Hard Gray, Moist SILTY CLAY LOAM, with gravel (ML/CL)	586.49		10		
			15	4.5	11
			26	P	
Extremely Dense Brown and Gray, Moist SAND, with gravel (SPG) Split-spoon refusal at 29 feet End of Boring	583.99		50/6"		10
	583.49	-30			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Page 1 of 1

Date 6/9/21

ROUTE 95th Street DESCRIPTION Retaining Wall Boring LOGGED BY EH

SECTION IL 171 & 95th Street LOCATION IL 171, SEC. 22, TWP. 37N, RNG. 12E,
Latitude 41.7165766, Longitude -87.8990195

COUNTY COOK DRILLING RIG Diedrich D-50 HAMMER TYPE AUTO
DRILLING METHOD HSA HAMMER EFF (%) 92

STRUCT. NO. SN 016-2310
Station Sta. 317+80.13 to 333+27.91

BORING NO. RWB-08
Station 321+11.99
Offset 36.09ft RT
Ground Surface Elev. 613.01 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter None ft
Upon Completion N/A ft
After N/A Hrs. N/A ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Stiff Brown and Gray, Moist SILTY CLAY, with gravel (CL/ML)			9		
			6		14
			4		
Stiff to Very Stiff Brown and Gray, Moist CLAY LOAM, trace gravel (CL-S)	609.51		4		
			8	2.5	20
		-5	10	P	
			5		
			10	3.0	20
			11	P	
			28		
			18	1.0	22
		-10	21	P	
Hard Gray, Moist SILTY CLAY, trace sand (CL/ML)	602.01		15		
			14	4.5	18
			12	P	
			10		
			16		16
Dense Brown, Wet SILTY SAND (SM)	598.51	-15	18		
Very Dense to Extremely Dense Gray, Moist SANDY CLAY LOAM, with gravel and cobbles (SC/SM)	597.01		12		
			20		12
			30		
			30		
			50/2"		12
		-20			
Very Dense to Extremely Dense Gray, Moist SANDY CLAY LOAM, with gravel and cobbles (SC/SM) *(continued)*			27		
			24		10
			28		
Very Stiff Gray, Moist SILTY CLAY LOAM, with gravel and cobbles (ML/CL)	589.51		14		
			34	3.3	9
		-25	35	B	
End of Boring	588.01				
		-30			
		-35			
		-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Page 1 of 1

Date 6/9/21

ROUTE 95th Street DESCRIPTION Retaining Wall Boring LOGGED BY EH

SECTION IL 171 & 95th Street LOCATION IL 171, SEC. 22, TWP. 37N, RNG. 12E,
Latitude 41.7166294, Longitude -87.8987774

COUNTY COOK DRILLING RIG Diedrich D-50 HAMMER TYPE AUTO
DRILLING METHOD HSA HAMMER EFF (%) 92

STRUCT. NO. SN 016-2310
Station Sta. 317+80.13 to 333+27.91

BORING NO. RWB-09
Station 321+80.29
Offset 39.38ft RT
Ground Surface Elev. 613.33 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter None ft
Upon Completion N/A ft
After N/A Hrs. N/A ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Stiff to Very Stiff Gray, Moist SILTY CLAY, with gravel, trace sand (CL/ML)			8		
			7	1.0	19
			6	P	
			6		
			7	3.0	20
		-5	10	P	
Very Stiff Brown, Moist SILTY CLAY LOAM, trace sand (ML/CL)	607.33		6		
			9	2.5	17
			12	P	
Hard Gray, Moist SILTY CLAY, trace gravel (CL/ML)	604.83		3		
			5	5.0	20
		-10	8	B	
Medium Dense to Dense Brown, Wet SANDY CLAY LOAM (SC/SM)	602.33		6		
			10		20
			13		
			4		
Cobbles at 13.5-15 feet			10		20
		-15	32		
Hard Brown, Moist SILTY CLAY LOAM (ML/CL)	597.33		13		
			11	5.8	14
			16	B	
	594.83		10		
			13	5.0	12
		-20	14	B	
Hard Gray, Moist SILTY CLAY LOAM, trace gravel (ML/CL) *(continued)* Auger refusal at 20.5 feet	592.83				
End of Boring					
		-25			
		-30			
		-35			
		-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

MODEL: Default
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5/21/2025 10:20:10 AM

COLLINS ENGINEERS INC.

USER NAME =	DESIGNED - MPR	REVISED -	
	CHECKED - EKM	REVISED -	
PLOT SCALE =	DRAWN - ZBD	REVISED -	
PLOT DATE =	CHECKED - EKM	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RETAINING WALL SOIL BORINGS III
STRUCTURE NO. 016-2310

SHEET S-18 OF S-23 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	89	135
		CONTRACT NO. 60R94		
	ILLINOIS	FED. AID PROJECT		

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Page 1 of 1

Date 6/16/21

ROUTE 95th Street DESCRIPTION Retaining Wall Boring LOGGED BY EH

SECTION IL 171 & 95th Street LOCATION IL 171, SEC. 22, TWP. 37N, RNG. 12E,
Latitude 41.7166919, Longitude -87.8985132

COUNTY COOK DRILLING RIG Diedrich D-50 HAMMER TYPE AUTO
DRILLING METHOD HSA HAMMER EFF (%) 92

STRUCT. NO. SN 016-2310
Station Sta. 317+80.13 to 333+27.91

BORING NO. RWB-10
Station 322+42.24
Offset 42.24ft RT
Ground Surface Elev. 613.40 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter 584.9 ft ▼
Upon Completion N/A ft
After N/A Hrs. N/A ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6 inches of Topsoil	612.90				
Medium Dense Brown and Gray, Moist SANDY CLAY LOAM, with gravel (SC/SM)			5 6 6		10
	609.90				
Very Stiff Brown, Moist SILTY CLAY, trace sand and gravel (CL/ML)		-5	2 4 4	2.5 B	16
	607.40				
Hard to Very Hard Brown, Moist SILTY CLAY LOAM, trace sand and gravel (ML/CL)		-10	5 9 13 6 12 22	4.5 P 10.0 B	21 14
	602.40				
Hard Gray, Moist SILTY CLAY LOAM, trace sand and gravel (ML/CL)			9 17 25	5.8 B	15
	599.90				
Dense Gray, Moist SILT, trace sand and gravel (ML)		-15	12 21 28		15
	597.40				
Medium Dense Brown, Wet SAND (SP)		-20	6 8 8 8 8 12		21 18
	592.40				
Dense Gray, Wet SAND (SP)		-25	8 10 15		21
	589.90				
Very Stiff to Hard Gray, Moist SILTY CLAY LOAM, trace sand and gravel (ML/CL)		-30	7 8 24 12 16 19 8 13 23	3.5 P 4.0 P 5.0 B	15 12 12
	583.40	-35			
End of Boring		-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Page 1 of 1

Date 6/15/21

ROUTE 95th Street DESCRIPTION Retaining Wall Boring LOGGED BY EH

SECTION IL 171 & 95th Street LOCATION IL 171, SEC. 22, TWP. 37N, RNG. 12E,
Latitude 41.7167659, Longitude -87.8982534

COUNTY COOK DRILLING RIG CME-75 HAMMER TYPE AUTO
DRILLING METHOD HSA HAMMER EFF (%) 91

STRUCT. NO. SN 016-2310
Station Sta. 317+80.13 to 333+27.91

BORING NO. RWB-11
Station 323+30.65
Offset 41.78ft RT
Ground Surface Elev. 613.63 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter None ft
Upon Completion N/A ft
After N/A Hrs. N/A ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6 inches of Topsoil	613.13				
Very Stiff Brown, Moist SILTY CLAY, with sand (CL/ML)		-5	9 5 5 3 3 5	2.5 P	14 15
	607.63				
Medium Dense to Dense Brown, Moist SAND, with gravel and cobbles, trace clay (SPG)		-10	11 24 24 10 14 11 8		6 8
	600.13				
Medium Dense to Extremely Dense Brown, Moist GRAVEL, with clay and sand (GP)		-15	9 11 9		10
		-20	13 12 10 16 23 22		9 8
Medium Dense to Extremely Dense Brown, Moist GRAVEL, with clay and sand (GP) *(continued)*		-25	16 42 46 15 43 34 21 50/5"		7 7
		-30	19 25 13		8
Auger refusal at 32 feet	581.63	-35			
End of Boring		-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Page 1 of 1

Date 6/21/21

ROUTE 95th Street DESCRIPTION Retaining Wall Boring LOGGED BY EH

SECTION IL 171 & 95th Street LOCATION IL 171, SEC. 22, TWP. 37N, RNG. 12E,
Latitude 41.7168446, Longitude -87.8980023

COUNTY COOK DRILLING RIG CME-75 HAMMER TYPE AUTO
DRILLING METHOD HSA HAMMER EFF (%) 91

STRUCT. NO. SN 016-2310
Station Sta. 317+80.13 to 333+27.91

BORING NO. RWB-12
Station 324+4.38
Offset 39.86ft RT
Ground Surface Elev. 613.37 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter None ft
Upon Completion N/A ft
After N/A Hrs. N/A ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6 inches of Topsoil	612.87				
Stiff Brown, Moist SILTY CLAY, with sand, trace gravel (CL/ML)			4 3 3	1.0 P	13
Cobbles at 3.5-5 feet		-5	42 46 38		10
	607.37				
Medium Dense to Dense Brown and Gray, Moist SAND, with gravel and cobbles (SPG)		-10	17 17 18 17 18 12		7 6
	599.87				
Loose to Dense Gray and Brown, Moist GRAVEL, with clay and sand (GP)		-15	10 28 9		7
		-20	6 7 8 2 6 6		11 13
Loose to Dense Gray and Brown, Moist GRAVEL, with clay and sand (GP) *(continued)*		-25	6 6 2 3 1		12 12
		-30	4 6 13		13
Dense Gray and Brown, Moist SAND, with gravel (SPG)		-35	15 22 24		8
Blind drill from 32 to 40 feet. Auger refusal at 32 feet on 06/12/2021. Attempted rock core on 06/21/2021, was able to blind drill to full depth of 40 feet.		-40			
End of Boring	573.37				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

MODEL: Default
FILE NAME: P:\10-IL\13117-Ames-IDOT IL171 at 95th Street\Work\CADD\CADD_Sheets\D160R94-019-RetWall Soil Borings 4.dgn
5/21/2025 10:20:14 AM

COLLINS ENGINEERS INC.

USER NAME =	DESIGNED - MPR	REVISED -	
	CHECKED - EKM	REVISED -	
PLOT SCALE =	DRAWN - ZBD	REVISED -	
PLOT DATE =	CHECKED - EKM	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RETAINING WALL SOIL BORINGS IV
STRUCTURE NO. 016-2310

SHEET S-19 OF S-23 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	90	135
		CONTRACT NO. 60R94		
		ILLINOIS	FED. AID PROJECT	

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Page 1 of 1

Date 6/14/21

ROUTE 95th Street DESCRIPTION Retaining Wall Boring LOGGED BY EH

SECTION IL 171 & 95th Street LOCATION IL 171, SEC. 22, TWP. 37N, RNG. 12E,
Latitude 41.7168983, Longitude -87.8978358

COUNTY COOK DRILLING RIG CME-75 HAMMER TYPE AUTO
DRILLING METHOD HSA HAMMER EFF (%) 91

STRUCT. NO. SN 016-2310
Station Sta. 317+80.13 to 333+27.91

BORING NO. RWB-13
Station 324+53.54
Offset 38.61ft RT
Ground Surface Elev. 613.42 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter None ft
Upon Completion N/A ft
After N/A Hrs. N/A ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
4 inches of Topsoil	613.09				
Stiff Brown and Black, Moist SILTY CLAY, with sand, trace gravel (CL/ML)			5		
			2	1.0	11
			6	P	
			4		
			6	2.0	12
		-5	6	P	
Medium Dense to Dense Brown, Dry to Moist SANDY CLAY LOAM, with gravel and cobbles (SC/SM)	607.42		12		
			17		9
			20		
			18		
			16		4
		-10	10		
Medium Dense Brown and Gray, Moist to Wet SAND, with gravel and cobbles (SPG)	603.42		6		
			9		6
			14		
			6		
			6		8
		-15	7		
			14		
			10		16
			18		
			8		
			7		11
		-20	5		

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Stiff to Hard Brown and Gray, Moist to Very Moist SILTY CLAY, with sand, gravel, and cobbles (CL/ML)	592.42		2		
			3	1.0	25
			50/5"	P	
			50/4"		
					7
		-25			
			20		
			15	4.5	8
			26	P	
			12		
			23	4.5	6
		-30	32	P	
			50/3"		
					2
Auger refusal at 35 feet	578.42	-35			
End of Boring					
		-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Page 1 of 1

Date 6/14/21

ROUTE 95th Street DESCRIPTION Retaining Wall Boring LOGGED BY EH

SECTION IL 171 & 95th Street LOCATION IL 171, SEC. 22, TWP. 37N, RNG. 12E,
Latitude 41.7169819, Longitude -87.8975839

COUNTY COOK DRILLING RIG CME-75 HAMMER TYPE AUTO
DRILLING METHOD HSA HAMMER EFF (%) 91

STRUCT. NO. SN 016-2310
Station Sta. 317+80.13 to 333+27.91

BORING NO. RWB-14
Station 325+28.22
Offset 36.74ft RT
Ground Surface Elev. 612.44 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter 578.9 ft ▼
Upon Completion N/A ft
After N/A Hrs. N/A ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
4 inches of Topsoil	612.11				
Stiff Brown and Black, Moist SILTY CLAY, with sand, trace gravel (CL/ML)			5		
			4	1.0	7
			7	P	
Loose Brown, Moist SILT, with sand, trace gravel (ML)	608.94		2		
			2		16
		-5	4		
Very Stiff Brown, Moist SILTY CLAY, trace and gravel (CL/ML)	606.44		2		
			2	2.5	16
			5	B	
Loose Brown, Moist SANDY CLAY LOAM, trace gravel (SC/SM)	603.94		4		
			3		13
		-10	2		
Stiff Brown, Moist to Very Moist SILTY CLAY, with sand and gravel (CL)	601.44		1		
			1	1.0	28
			3	P	
			5		
			5	1.0	16
		-15	2	P	
Cobbles at 16-17.5 feet			4		
			3		11
			19		
	593.94		1		
			5	1.0	30
		-20	6	P	

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium Stiff to Stiff Brown, Very Moist SILTY CLAY, trace sand and gravel (CL/ML) *(continued)*			2		
			3	1.3	26
			2	B	
			3		
			3	0.5	28
		-25	5	P	
Dense to Extremely Dense Brown and Gray, Moist to Wet SAND, with gravel and clay (SPG)	586.44		35		
			23		7
			30		
			19		
			50/5"		14
		-30			
			11		
			24		11
		-35	12		
			50/3"		15
End of Boring	572.44	-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Page 1 of 1

Date 6/10/21

ROUTE 95th Street DESCRIPTION Retaining Wall Boring LOGGED BY EH

SECTION IL 171 & 95th Street LOCATION IL 171, SEC. 22, TWP. 37N, RNG. 12E,
Latitude 41.7170697, Longitude -87.897332

COUNTY COOK DRILLING RIG CME-75 HAMMER TYPE AUTO
DRILLING METHOD HSA HAMMER EFF (%) 91

STRUCT. NO. SN 016-2310
Station Sta. 317+80.13 to 333+27.91

BORING NO. RWB-15
Station 326+3.57
Offset 34.52ft RT
Ground Surface Elev. 611.88 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter None ft
Upon Completion N/A ft
After N/A Hrs. N/A ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6 inches of Topsoil	611.28				
Stiff to Hard Brown and Gray, Moist SILTY CLAY, with sand (CL/ML)			5		
			4	4.5	12
			5	P	
			2		
			2	1.3	22
		-5	6	B	
			3		
			2	1.0	17
			2	P	
Cobbles at 8.5-10 feet			9		
			17		13
		-10	5		
Cobbles at 11-12.5 feet			2		
			3		19
			2		
Cobbles at 13.5-15 feet			10		
			4		13
		-15	5		
Soft to Stiff Brown, Moist to Very Moist CLAY, trace sand and gravel (CH)	595.88		2		
			5	1.3	38
			5	B	
			6		
			4	0.8	33
		-20	7	B	

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Soft to Stiff Brown, Moist to Very Moist CLAY, trace sand and gravel (CH) *(continued)*			WOH		
			1	0.4	25
			9	B	
Cobbles at 23.5-25 feet			3		
			12	0.5	15
		-25	10	P	
Medium Dense Brown, Moist SAND, with gravel (SPG)	585.88		5		
			6		11
			12		
			28		
			16		8
		-30	10		
			13		
			10		9
			14		
End of Boring	576.88	-35			
		-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

MODEL: Default
FILE NAME: P:\10-IL\13117-Ames-IDOT IL171 at 95th Street\Work\CADD\CADD_Sheets\D160R94-020-RetWall Soil Borings 5.dgn
5/21/2025 10:20:17 AM

COLLINS ENGINEERS INC.

USER NAME =	DESIGNED - MPR	REVISED -	
	CHECKED - EKM	REVISED -	
PLOT SCALE =	DRAWN - ZBD	REVISED -	
PLOT DATE =	CHECKED - EKM	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RETAINING WALL SOIL BORINGS V
STRUCTURE NO. 016-2310

SHEET S-20 OF S-23 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	91	135
		CONTRACT NO. 60R94		
	ILLINOIS	FED. AID PROJECT		

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Page 1 of 1

Date 6/9/21

ROUTE 95th Street DESCRIPTION Retaining Wall Boring LOGGED BY EH

SECTION IL 171 & 95th Street LOCATION IL 171, SEC. 22, TWP. 37N, RNG. 12E,
Latitude 41.717145, Longitude -87.8970883

COUNTY COOK DRILLING RIG Diedrich D-50 HAMMER TYPE AUTO
DRILLING METHOD HSA HAMMER EFF (%) 92

STRUCT. NO. SN 016-2310
Station Sta. 317+80.13 to 333+27.91

BORING NO. RWB-16
Station 326+75.53
Offset 36.03ft RT
Ground Surface Elev. 612.05 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter None ft
Upon Completion N/A ft
After N/A Hrs. N/A ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Loose Gray, Moist GRAVEL, with sand and clay (GP)			4 5 5		10
	608.55				
Medium Dense Brown, Wet SAND, with gravel (SPG)		-5	7 9 6		22
	606.05				
Loose to Medium Dense Brown, Moist SILTY SAND, with gravel (SM)			6 5 8		9
			5		
		-10	4 4		8
Cobbles at 11-12.5			50/4"		7
			6		
		-15	13 13		11
Cobbles at 16-17.5			5 5 5		11
	593.55				
		-20	1 2 3	1.0 P	20
Medium Stiff to Stiff Brown, Moist SILTY CLAY, with sand and gravel (CL/ML) *(continued)*			2 3 4	1.0 P	21
Cobbles at 23.5-25 feet		-25	15 21 15	0.5 P	13
	586.05				
Medium Dense Brown, Moist SILTY SAND, with gravel (SM)			10 12 13		6
			6		
		-30	5 8		12
	577.05	-35	6 10 12		12
End of Boring					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Page 1 of 1

Date 6/9/21

ROUTE 95th Street DESCRIPTION Retaining Wall Boring LOGGED BY EH

SECTION IL 171 & 95th Street LOCATION IL 171, SEC. 22, TWP. 37N, RNG. 12E,
Latitude 41.7172191, Longitude -87.8968837

COUNTY COOK DRILLING RIG Diedrich D-50 HAMMER TYPE AUTO
DRILLING METHOD HSA HAMMER EFF (%) 92

STRUCT. NO. SN 016-2310
Station Sta. 317+80.13 to 333+27.91

BORING NO. RWB-17
Station 327+37.52
Offset 33.68ft RT
Ground Surface Elev. 611.54 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter None ft
Upon Completion N/A ft
After N/A Hrs. N/A ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Loose Gray, Moist SAND, with gravel (SPG)			4 4 3		9
	608.04				
Stiff Brown, Moist SILTY CLAY, trace sand and gravel (CL/ML)		-5	3 3 8	2.0 P	17
	605.54				
Medium Dense to Very Dense Brown, Dry to Moist SILTY SAND, with gravel and cobbles (SM) Boulder at 6-7.5 feet			10 26 30		7
			9		
		-10	13 13		6
			8 9 18		14
			24		
		-15	23 23		3
			16 15 22		7
	593.04				
Stiff Brown, Moist CLAY LOAM, with gravel (CL-S)		-20	1 3 15	2.0 P	20
	590.54				
Medium Dense to Dense Brown, Moist SANDY CLAY LOAM, with gravel and cobbles (SC/SM)			8 13 16		15
		-25	13 28 14		8
	585.04		50/4"		10
Auger refusal at 26.5 feet End of Boring		-30			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Page 1 of 1

Date 6/10/21

ROUTE 95th Street DESCRIPTION Retaining Wall Boring LOGGED BY EH

SECTION IL 171 & 95th Street LOCATION IL 171, SEC. 22, TWP. 37N, RNG. 12E,
Latitude 41.7173026, Longitude -87.8966253

COUNTY COOK DRILLING RIG Diedrich D-50 HAMMER TYPE AUTO
DRILLING METHOD HSA HAMMER EFF (%) 92

STRUCT. NO. SN 016-2310
Station Sta. 317+80.13 to 333+27.91

BORING NO. RWB-18
Station 328+14.34
Offset 34.07ft RT
Ground Surface Elev. 611.02 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter None ft
Upon Completion N/A ft
After N/A Hrs. N/A ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Stiff Brown, Moist SILTY CLAY, with gravel, trace sand (CL/ML)			2 5 4		12
	607.52				
Medium Dense to Exremely Dense Brown, Moist GRAVEL, with sand and silt (GP)		-5	12 13 20		7
			16		
			20 13		5
			17		
		-10	50/3"		8
			37		
			21 14		7
			15		
		-15	15 12		6
			37		
			24 15		6
			9		
		-20	8 6		8
Medium Dense to Exremely Dense Brown, Moist GRAVEL, with sand and silt (GP) *(continued)*			10 33 23		14
Auger Refusal at 22.5 feet	588.52				
End of Boring					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

MODEL: Default
FILE NAME: P:\10-IL\13117-Ames-IDOT IL171 at 95th Street\Work\CADD\CADD_Sheets\D160R94-021-RetWall Soil Borings 6.dgn

COLLINS ENGINEERS INC.

USER NAME =	DESIGNED - MPR	REVISED -	
	CHECKED - EKM	REVISED -	
PLOT SCALE =	DRAWN - ZBD	REVISED -	
PLOT DATE =	CHECKED - EKM	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RETAINING WALL SOIL BORINGS VI
STRUCTURE NO. 016-2310

SHEET S-21 OF S-23 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	92	135
		CONTRACT NO. 60R94		
		ILLINOIS	FED. AID PROJECT	

5/21/2025 10:20:20 AM

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Page 1 of 1

Date 6/21/21

ROUTE 95th Street DESCRIPTION Retaining Wall Boring LOGGED BY EH

SECTION IL 171 & 95th Street LOCATION IL 171, SEC. 22, TWP. 37N, RNG. 12E,
Latitude 41.7173758, Longitude -87.8963887

COUNTY COOK DRILLING RIG CME-75 HAMMER TYPE AUTO
DRILLING METHOD HSA HAMMER EFF (%) 91

STRUCT. NO. SN 016-2310
Station Sta. 317+80.13 to 333+27.91

BORING NO. RWB-19
Station 328+84.22
Offset 35.55ft RT
Ground Surface Elev. 610.64 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter None ft
Upon Completion N/A ft
After N/A Hrs. N/A ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Loose Gray, Moist SILTY SAND, with gravel (SM)			6		
			4		14
			5		
	607.14				
Medium Dense Brown, Wet SAND, with gravel (SPG)			5		
			10		17
		-5	16		
	604.64				
Very Dense to Exremely Dense Brown, Dry to Moist SILTY SAND, with gravel and cobbles (SM)			20		
			50/2"		7
			15		
			18		5
		-10	38		
	599.64				
Medium Dense to Extremely Dense Brown, Moist to Wet SAND, with gravel and cobbles (SPG)			14		
			15		12
			28		
			5		
			12		28
		-15	12		
Auger refusal at 11.5 feet on 06/09/2021 and 06/10/2021. Attempted rock core on 06/21/2021 and boring was completed to full depth of 25 feet. Little recovery at 16-17.5 feet			50/5"		
			50/6"		
					22
		-20			

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium Dense to Extremely Dense Brown, Moist to Wet SAND, with gravel and cobbles (SPG) *(continued)*			7		
			12		13
			20		
			15		
			32		12
	585.64	-25	28		
End of Boring					
		-30			
		-35			
		-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Page 1 of 1

Date 6/9/21

ROUTE 95th Street DESCRIPTION Retaining Wall Boring LOGGED BY DM

SECTION IL 171 & 95th Street LOCATION IL 171, SEC. 22, TWP. 37N, RNG. 12E,
Latitude 41.717458, Longitude -87.8961337

COUNTY COOK DRILLING RIG CME-75 HAMMER TYPE AUTO
DRILLING METHOD HSA HAMMER EFF (%) 91

STRUCT. NO. SN 016-2310
Station Sta. 317+80.13 to 333+27.91

BORING NO. RWB-20
Station 329+60.01
Offset 35.99ft RT
Ground Surface Elev. 610.33 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter None ft
Upon Completion N/A ft
After N/A Hrs. N/A ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6 inches of Topsoil	609.83				
Loose Brown, Moist SAND, trace gravel (SP)			4		
			2		10
			4		
	606.83				
Loose Dark Brown, Moist SILT, trace sand and gravel (ML)			3		
			2		11
	605.33	-5	2		
Medium Dense Light Brown, Moist SAND, trace gravel (SP)			7		
			8		5
			12		
	601.83				
Dense to Very Dense Light Brown, Dry to Moist SAND, with gravel (SPG)			14		
			35		3
		-10	36		
			18		
			17		5
	597.83		25		
Dense to Very Dense Light Brown, Moist GRAVEL, with sand (GP)			13		
			18		5
		-15	40		
			19		
			18		6
			13		
			18		
			28		5
End of Boring	590.33	-20	35		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Page 1 of 1

Date 6/9/21

ROUTE 95th Street DESCRIPTION Retaining Wall Boring LOGGED BY DM

SECTION IL 171 & 95th Street LOCATION IL 171, SEC. 22, TWP. 37N, RNG. 12E,
Latitude 41.7175384, Longitude -87.8958845

COUNTY COOK DRILLING RIG CME-75 HAMMER TYPE AUTO
DRILLING METHOD HSA HAMMER EFF (%) 91

STRUCT. NO. SN 016-2310
Station Sta. 317+80.13 to 333+27.91

BORING NO. RWB-21
Station 330+34.08
Offset 36.40ft RT
Ground Surface Elev. 610.04 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter None ft
Upon Completion N/A ft
After N/A Hrs. N/A ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6 inches of Topsoil	609.54				
Loose Light Brown, Moist SILTY SAND, trace gravel (SM)			4		
			3		12
			2		
	606.04		5		
Loose Light Brown, Wet SAND, trace gravel (SP)			3		17
	605.04	-5	4		
Medium Dense to Dense Light Brown, Moist SILT, with sand, trace gravel (ML)			6		
			10		17
			14		
			6		
			17		16
		-10	21		
	599.04				
Medium Dense Light Brown, Moist SAND, trace gravel (SP)			11		
			14		9
			15		
			9		
			14		9
		-15	15		
	594.04				
Medium Dense Brown and Gray, Very Moist SILT, with sand, trace gravel (ML)			10		
			12		25
			13		
			10		
			14		21
End of Boring	590.04	-20	13		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

MODEL: Default
FILE NAME: P:\10-IL\13117-Ames-IDOT IL171 at 95th Street\Work\CADD\CADD_Sheets\D160R94-022-RetWall Soil Borings 7.dgn

COLLINS ENGINEERS INC.

USER NAME =	DESIGNED - MPR	REVISED -	
	CHECKED - EKM	REVISED -	
PLOT SCALE =	DRAWN - ZBD	REVISED -	
PLOT DATE =	CHECKED - EKM	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RETAINING WALL SOIL BORINGS VII
STRUCTURE NO. 016-2310

SHEET S-22 OF S-23 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	93	135
		CONTRACT NO. 60R94		
		ILLINOIS	FED. AID PROJECT	

5/21/2025 10:20:23 AM

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Page 1 of 1

Date 6/9/21

ROUTE 95th Street DESCRIPTION Retaining Wall Boring LOGGED BY DM

SECTION IL 171 & 95th Street LOCATION IL 171, SEC. 22, TWP. 37N, RNG. 12E,
Latitude 41.7176241, Longitude -87.8956262

COUNTY COOK DRILLING RIG CME-75 HAMMER TYPE AUTO
DRILLING METHOD HSA HAMMER EFF (%) 91

STRUCT. NO. SN 016-2310
Station Sta. 317+80.13 to 333+27.91

BORING NO. RWB-22
Station 331+11.20
Offset 36.05ft RT
Ground Surface Elev. 609.90 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter None ft
Upon Completion N/A ft
After N/A Hrs. N/A ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6 inches of Topsoil	609.40				
Loose to Medium Dense Light Brown, Moist to Wet SILTY SAND, trace gravel (SM)			6		
			4		9
			3		
			5		
			8		19
	604.90	-5	8		
Medium Dense to Dense Light Brown, Moist to Wet SAND, trace gravel (SP)			10		
			14		14
			14		
			7		
			9		22
		-10	14		
			12		
			15		9
			15		
			10		
			14		10
		-15	14		
			13		
			17		12
			16		
	590.90		14		
Dense Gray, Wet			15		15
	589.90	-20	16		

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SAND, trace gravel (SP) End of Boring		-25			
		-30			
		-35			
		-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Page 1 of 1

Date 6/9/21

ROUTE 95th Street DESCRIPTION Retaining Wall Boring LOGGED BY DM

SECTION IL 171 & 95th Street LOCATION IL 171, SEC. 22, TWP. 37N, RNG. 12E,
Latitude 41.7176995, Longitude -87.8953923

COUNTY COOK DRILLING RIG CME-75 HAMMER TYPE AUTO
DRILLING METHOD HSA HAMMER EFF (%) 91

STRUCT. NO. SN 016-2310
Station Sta. 317+80.13 to 333+27.91

BORING NO. RWB-23
Station 331+80.73
Offset 36.47ft RT
Ground Surface Elev. 609.57 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter None ft
Upon Completion N/A ft
After N/A Hrs. N/A ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
18 inches of Topsoil	608.07		3		
Very Stiff to Hard Light Brown, Moist SILTY CLAY, trace sand and gravel (CL/ML)			2	3.0	14
			5	B	
Cobbles at 3.5-5 feet			50/4"		
				3.3	11
		-5		B	
			11		
			13	5.0	12
			20	B	
	601.57				
Dense Light Brown, Moist GRAVEL, with sand, trace clay (GP)			14		
			22		11
	599.57	-10	17		
Hard Brown and Gray, Moist SILTY CLAY, trace sand and gravel (CL/ML)			9		
			16	4.5	11
			17	B	
	596.57				
Medium Dense to Dense Gray, Moist SILT, trace sand and gravel (ML)			10		
			14		14
		-15	14		
			6		
			6		17
			10		
			12		
			19		13
End of Boring	589.57	-20	20		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Page 1 of 1

Date 6/9/21

ROUTE 95th Street DESCRIPTION Retaining Wall Boring LOGGED BY DM

SECTION IL 171 & 95th Street LOCATION IL 171, SEC. 22, TWP. 37N, RNG. 12E,
Latitude 41.7177787, Longitude -87.895151

COUNTY COOK DRILLING RIG CME-75 HAMMER TYPE AUTO
DRILLING METHOD HSA HAMMER EFF (%) 91

STRUCT. NO. SN 016-2310
Station Sta. 317+80.13 to 333+27.91

BORING NO. RWB-24
Station 332+52.64
Offset 36.43ft RT
Ground Surface Elev. 609.22 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter None ft
Upon Completion N/A ft
After N/A Hrs. N/A ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
18 inches of Topsoil	607.72		3		
Medium Dense Light Brown, Moist GRAVEL, with sand (GP)			4		14
			10		
			5		
			12		7
		-5	15		
			12		
			8		8
			6		
			6		
			4		6
		-10	7		
			9		
			9		8
			7		
			20		
			12		5
		-15	9		
	593.22				
Extremely Dense Light Brown, Moist GRAVEL, with sand (GP) Cobbles at 16-17 feet			10		
			50/3"		8
	590.72				
			50/6"		5
Auger refusal at 19 feet End of Boring		-20			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

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COLLINS ENGINEERS INC.

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PLOT DATE =	CHECKED - EKM	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RETAINING WALL SOIL BORINGS VIII
STRUCTURE NO. 016-2310

SHEET S-23 OF S-23 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	94	135
		CONTRACT NO. 60R94		
	ILLINOIS	FED. AID PROJECT		

Bench Mark: A 2" metal disk in concrete located in grass median at 95th Street and IL Route 171 lying 36' south of south pavement edge along IL Route 171 and 29' northwest of west pavement edge along east leg for 95th Street. Elev. 608.57.

Existing Structure: The existing culvert (SN 016-1406) was built in approx. 1935. It is a 157' long 6'x6' box culvert. The culvert was extended north by 85' using double 48" reinforced concrete pipes. In 2018 under Contract 62B81 a 60" culvert liner was installed, area between liner and box culvert was filled with grout, and bulkhead was installed at south end of the culvert. Structure status was changed to "Deleted" in 2018.

No Salvage.

Traffic to be detoured during construction.

DESIGN STRESSES

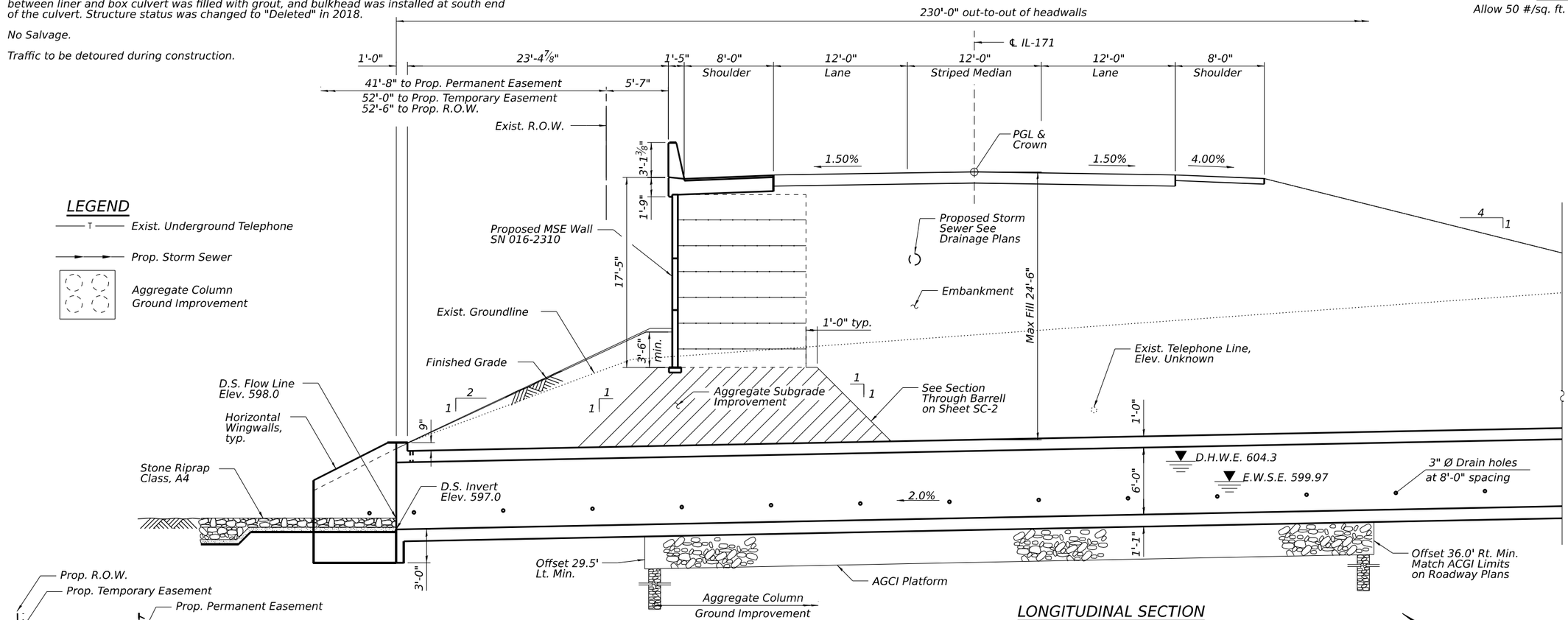
FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

LOADING HL-93

Allow 50 #/sq. ft. for Future Wearing Surface

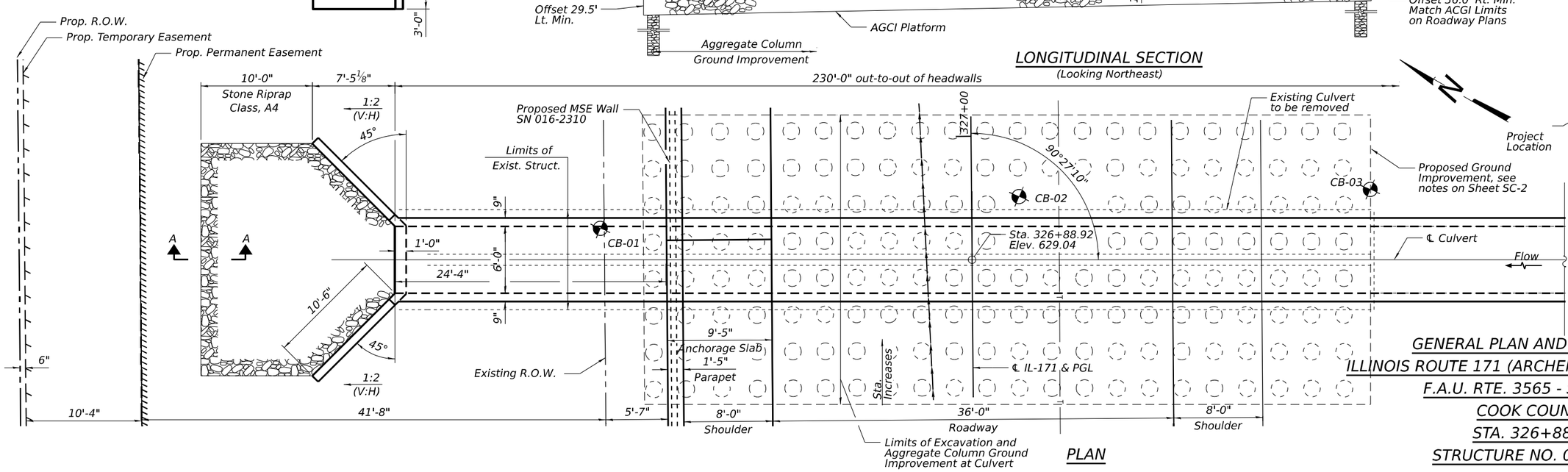


LEGEND

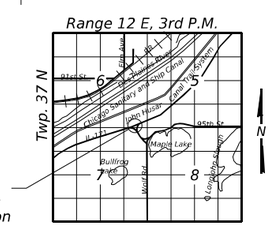
- Exist. Underground Telephone
- Prop. Storm Sewer
- Aggregate Column Ground Improvement

LONGITUDINAL SECTION

(Looking Northeast)



PLAN



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
ILLINOIS ROUTE 171 (ARCHER AVE.) OVER DITCH
F.A.U. RTE. 3565 - SEC U-1-N
COOK COUNTY
STA. 326+88.92
STRUCTURE NO. 016-8370

COLLINS ENGINEERS INC.

USER NAME =	DESIGNED - MPR	REVISED -	
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PLOT SCALE =	DRAWN - ZBD	REVISED -	
PLOT DATE =	CHECKED - EKM	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET SC-1 OF SC-6 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	95	135

CONTRACT NO. 60R94

ILLINOIS | FED. AID PROJECT

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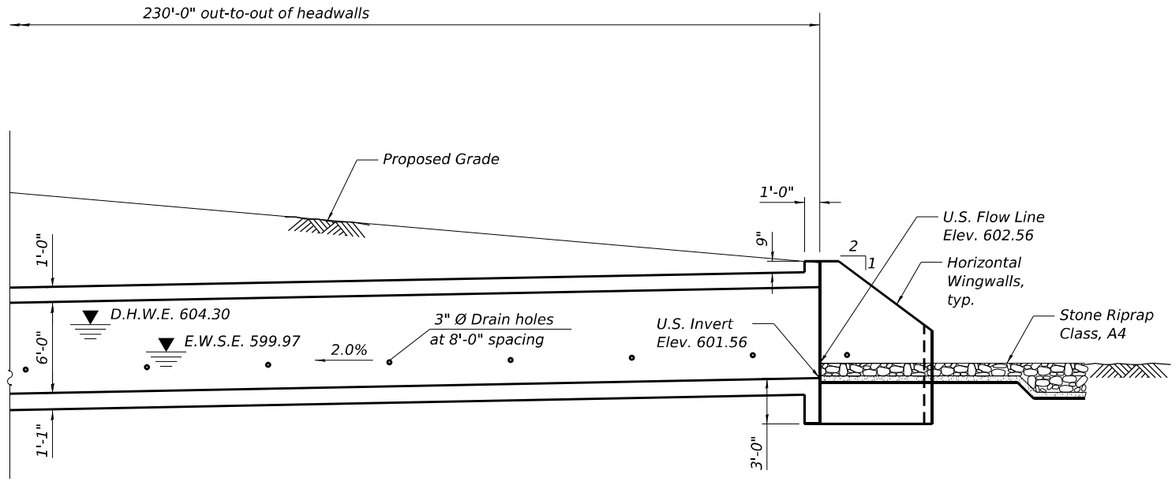
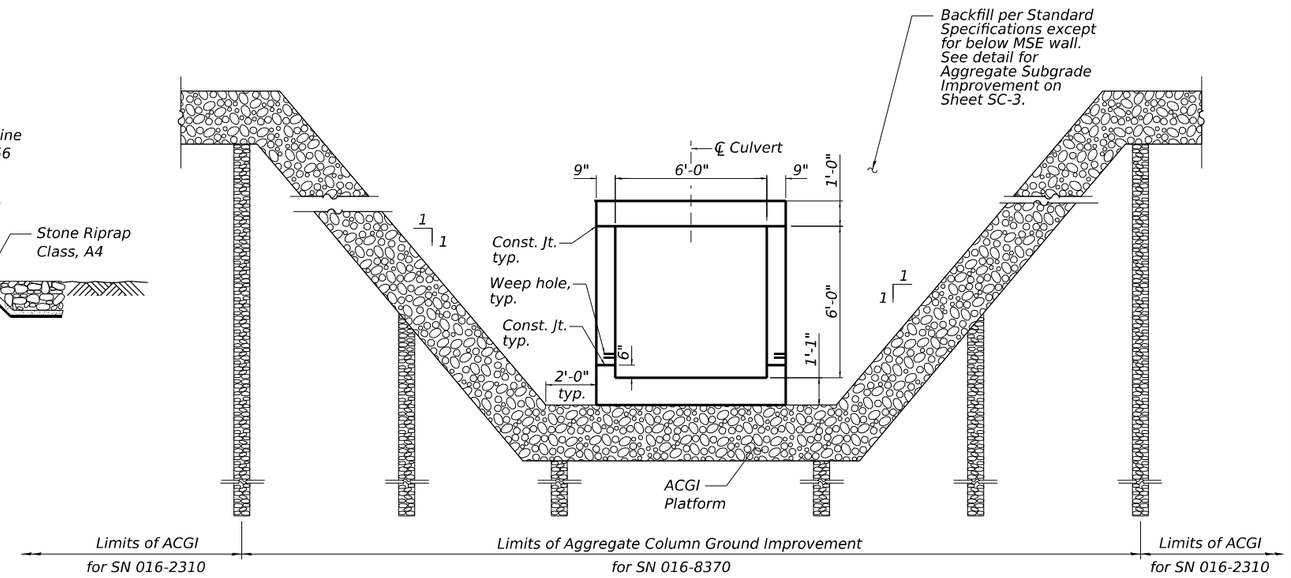


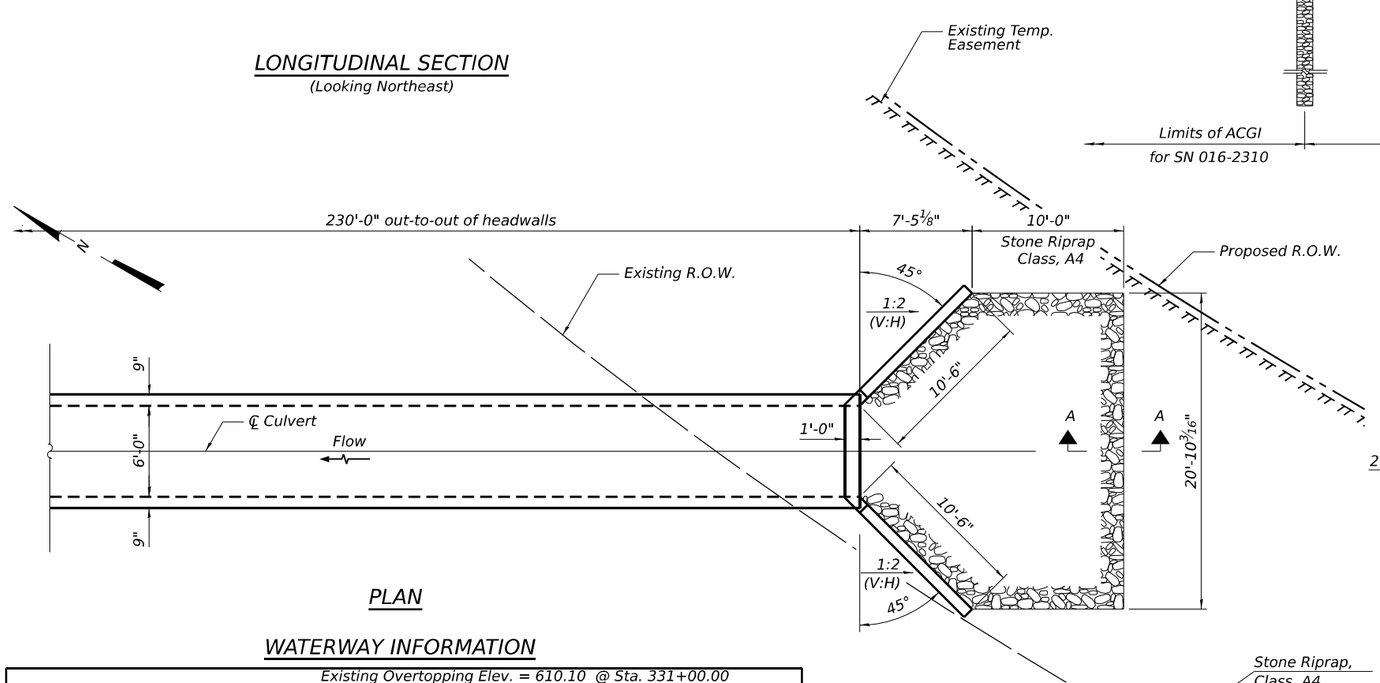
LONGITUDINAL SECTION

(Looking Northeast)



SECTION THRU BARREL SHOWING ACGI

(Looking Northwest)



PLAN

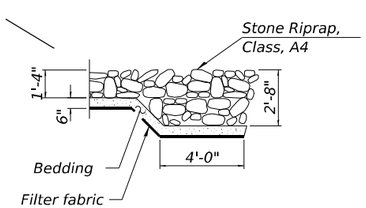
WATERWAY INFORMATION

Drainage Area = 0.609 sq. mi.

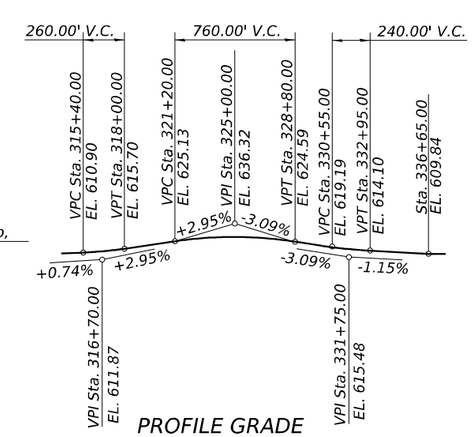
Existing Overtopping Elev. = 610.10 @ Sta. 331+00.00
Proposed Overtopping Elev. = 617.34 @ Sta. 331+00.00

Flood	Freq. Yr.	Discharge ft³/s	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. - Ft. Exist.	Headwater El. - Ft. Prop.
	10	51.50	6	7	603.70	0.90	.70	604.6	604.4
Design	50	120.00	10	10	604.30	1.80	1.60	606.1	605.9
Base	100	149.00	11	11	604.40	2.20	2.00	606.6	606.4
Overtoping									
Max. Calc.	500	217.00	16	14	605.00	3.20	2.70	608.2	607.7

10-Year Velocity through Existing Structure = 9.65 ft/s
10-Year Velocity through Proposed Structure = 5.98 ft/s



SECTION A-A



PROFILE GRADE

NOTES:

1. Ground Improvements in form of Aggregate Columns or Rigid Inclusions are recommended below the culvert. Limits of ground improvements are shown on Sheet SC-1. A load transfer layer (ACGI platform) consisting of compacted material with geogrid reinforcement is required to be constructed on top of columns. The Contractor shall submit design calculations and shop drawings sealed by an Illinois Licensed Professional Engineer in accordance with the Special Provisions.

2. The cost of the ACGI platform and steps, if required, shall be included with the cost of Aggregate Column Ground Improvement.

GENERAL PLAN AND ELEVATION II
ILLINOIS ROUTE 171 (ARCHER AVE.) OVER DITCH
F.A.U. RTE. 3565 - SEC U-1-N
COOK COUNTY
STA. 326+88.92
STRUCTURE NO. 016-8370

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COLLINS ENGINEERS INC.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET SC-2 OF SC-6 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	96	135

CONTRACT NO. 60R94

ILLINOIS FED. AID PROJECT

INDEX OF SHEETS

GENERAL NOTES

1. A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.
2. It will be the responsibility of the Contractor to direct the stream flow during construction in order to keep the Construction areas free of water. The method of water diversion shall be subject to the approval of the Engineer and the cost shall be included with the cost of the Concrete Box Culverts.
3. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
4. The limits and quantities of Aggregate Column Ground Improvement shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions encountered in the field.
5. Reinforcement bars designated (E) shall be epoxy coated.
6. Excavation required for construction of the culvert as shown in these plans and in accordance with the Standard Specifications shall be included in the cost Concrete Box Culverts.
7. Precast alternate is not allowed.
8. All exposed concrete edges shall be chamfered 3/4" unless otherwise noted.
9. The Contractor shall locate all existing utilities prior to construction. Any damage to utilities to be repaired at the Contractor's expense.

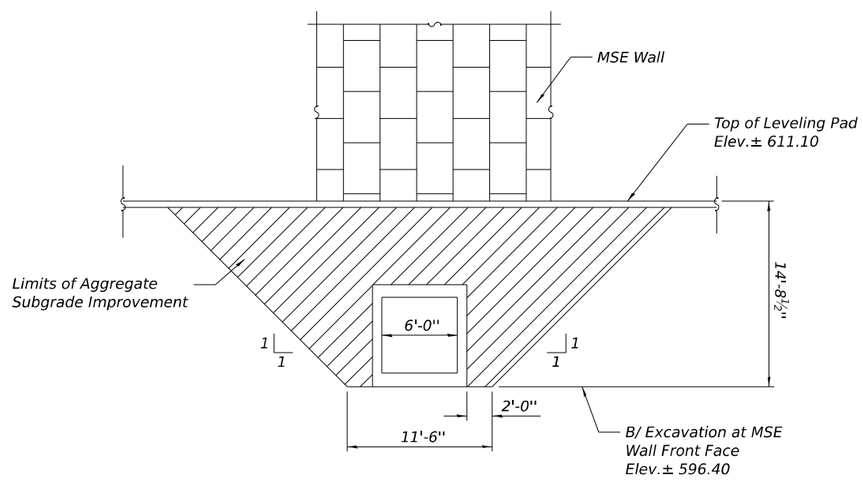
STATION 326+88.92
BUILT BY
STATE OF ILLINOIS
F.A.U. RT. 3565 SEC. U-1-N
LOADING HL-93
STR. NO. 016-8370

NAME PLATE

See Std. 515001

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Stone Riprap, Class A4	Sq. Yd.	70
Filter Fabric	Sq. Yd.	70
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	129
Reinforcement Bars	Pound	45,830
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	216.1
Aggregate Column Ground Improvement	L. Sum	0.25
Aggregate Subgrade Improvement	Cu. Yd.	413

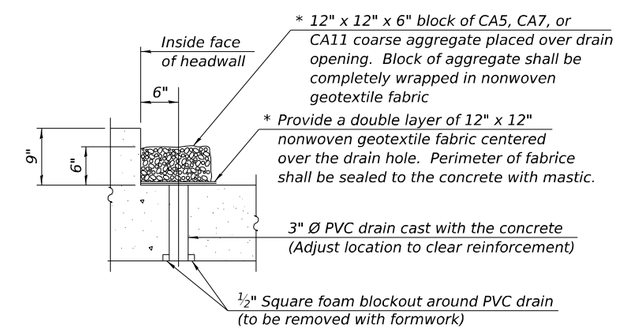


PAY LIMITS FOR AGGREGATE SUBGRAGE IMPROVEMENT BACKFILL

(Looking Northwest)

(Below MSE Wall, see longitudinal section on Sheet SC-1)

* Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.



DRAIN DETAIL

(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

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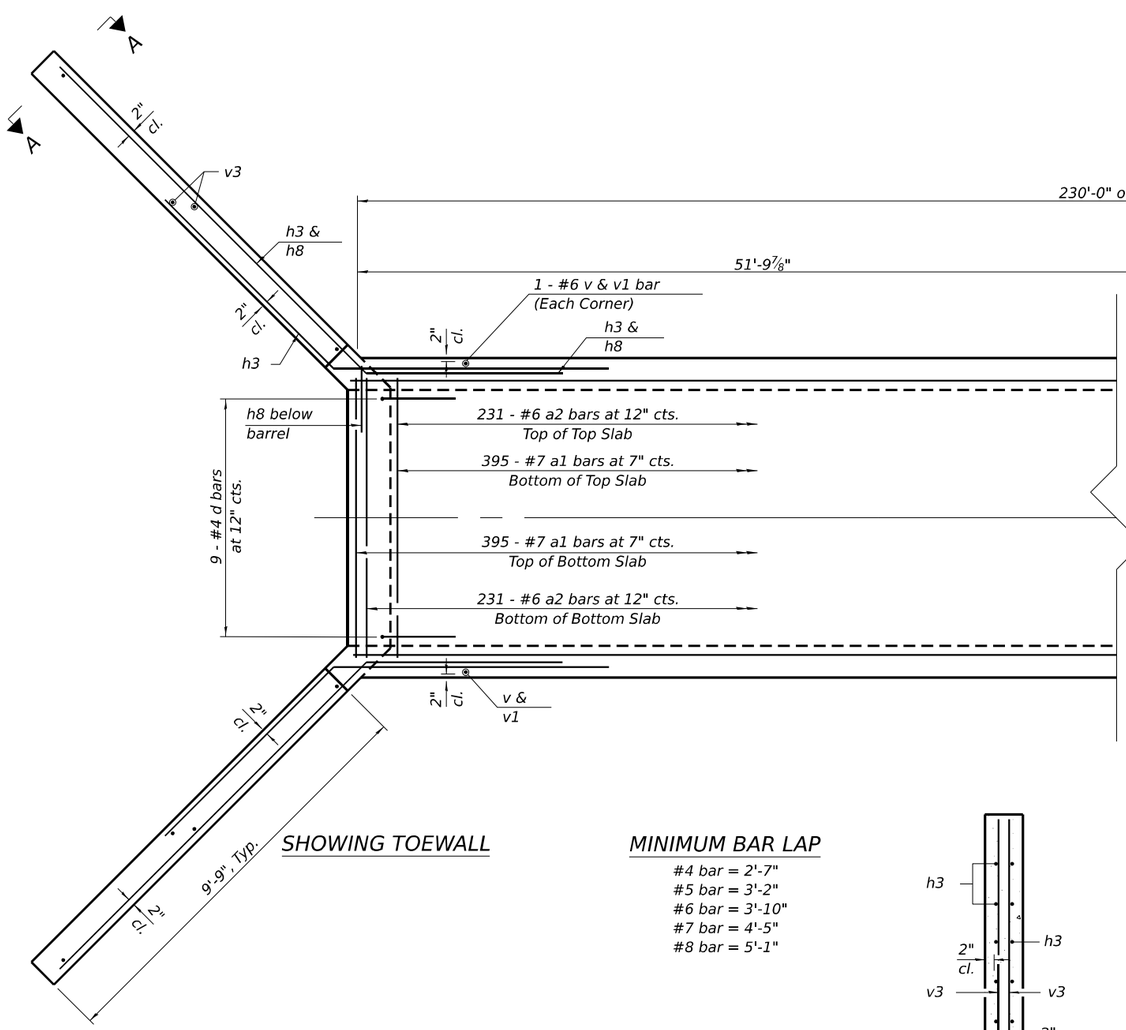
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

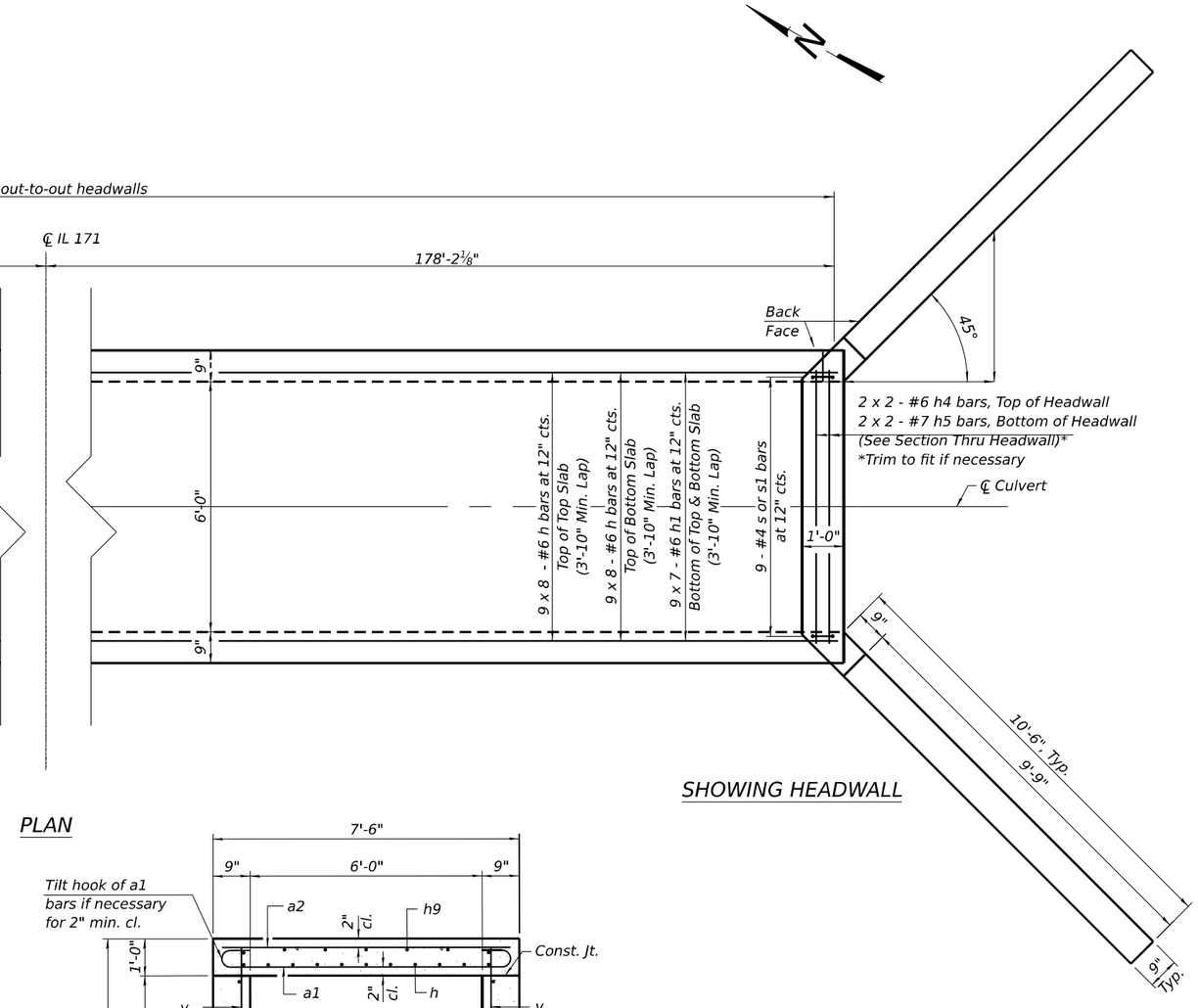
GENERAL NOTES, INDEX OF SHEETS, TOTAL BILL OF MATERIALS
STRUCTURE NO. 016-8370

SHEET SC-3 OF SC-6 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	97	135
		CONTRACT NO. 60R94		
		ILLINOIS	FED. AID PROJECT	



SHOWING TOEWALL

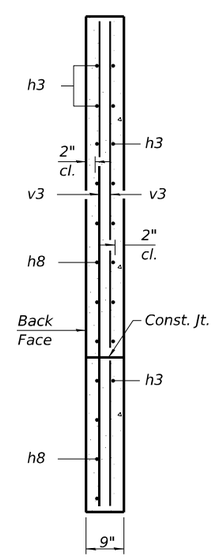


SHOWING HEADWALL

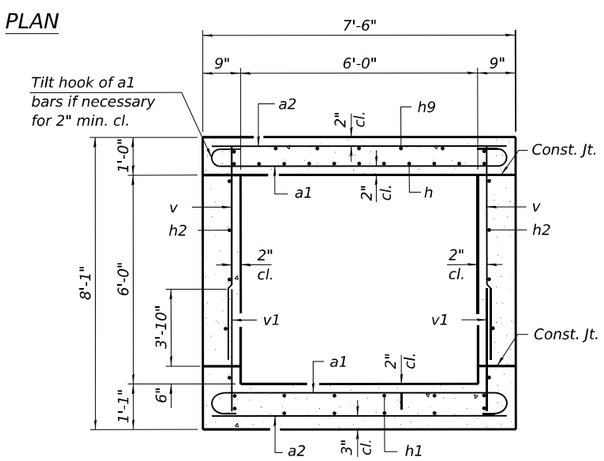
PLAN

MINIMUM BAR LAP

#4 bar = 2'-7"
#5 bar = 3'-2"
#6 bar = 3'-10"
#7 bar = 4'-5"
#8 bar = 5'-1"



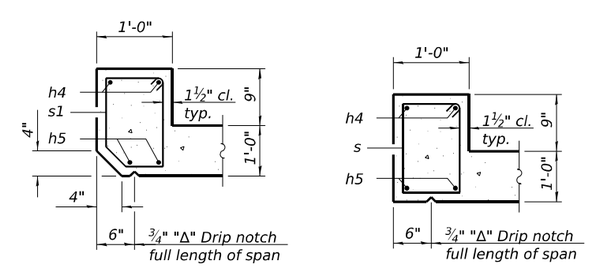
SECTION A-A



SECTION THRU BARREL

(Looking Northwest)

*Tilt hook of a1 bar if necessary for 2" min. cl.



UPSTREAM

DOWNSTREAM

SECTION THRU HEADWALL

Notes:

A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.

Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.

At the Contractor's option, a longer v1 bar may be ordered to replace the v bar. No reduction in quantities shall be made for this substitution.

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PLOT DATE =	CHECKED - EKM	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS I
STRUCTURE NO. 016-8370

SHEET SC-4 OF SC-6 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	98	135
		CONTRACT NO. 60R94		
		ILLINOIS	FED. AID PROJECT	

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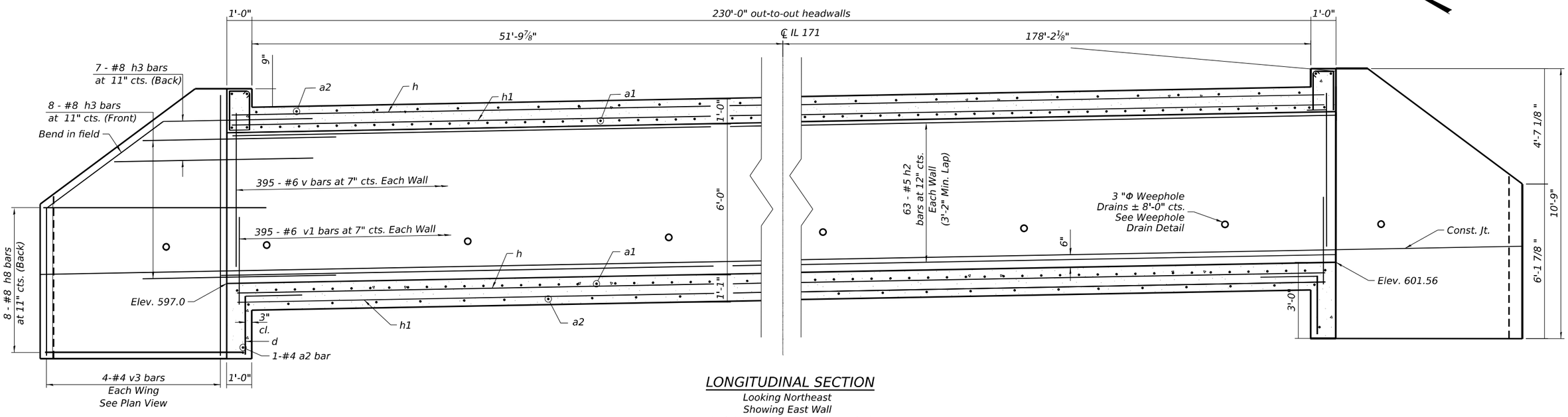


NORTHEAST WINGWALL

Looking East
Northwest Wingwall similar

LONGITUDINAL SECTION

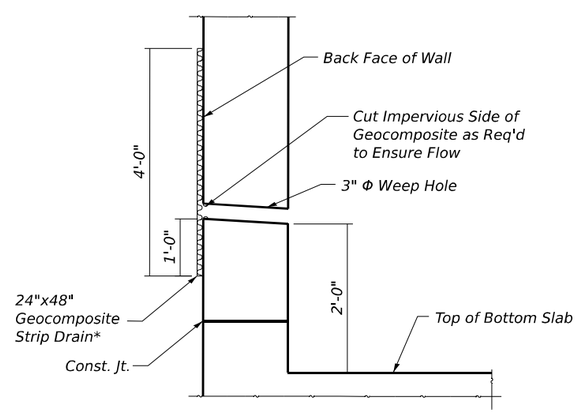
Looking Northeast
Showing East Wall
West Wall similar, except as noted

SOUTHEAST WINGWALL

Looking East
Southwest Wingwall similar

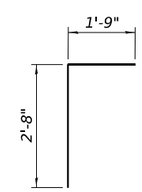
MINIMUM BAR LAP

#4 bar = 2'-7"
#5 bar = 3'-2"
#6 bar = 3'-10"
#7 bar = 4'-5"
#8 bar = 5'-1"



WEEPHOLE DRAIN DETAIL

∗ Cost included with Concrete Box Culverts.



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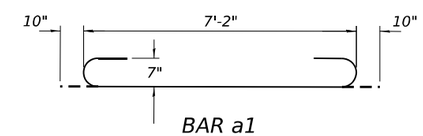
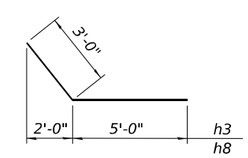
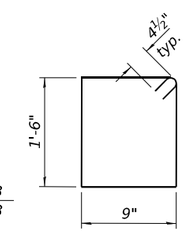


BAR a1



BARS h3 & h8



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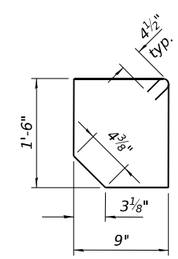

BAR s1

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a1	790	#7	8'-8"	
a2	462	#6	7'-2"	
d	18	#4	4'-5"	
h	144	#6	32'-1"	
h1	126	#6	36'-2"	
h2	126	#5	28'-4"	
h3	60	#8	8'-0"	
h4	4	#6	7'-2"	
h5	4	#7	7'-2"	
h8	64	#8	8'-0"	
s	9	#4	5'-3"	
s1	9	#4	5'-2"	
v	399	#6	5'-1"	
v1	399	#6	6'-0"	
v3	16	#4	10'-2"	
Concrete Box Culverts			Cu. Yd.	216.1
Reinforcement Bars			Pound	45,830

Notes:

1. A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with wingwalls.
2. Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.
3. At the Contractor's option, a longer v1 bar may be ordered to replace the v bar. No reduction in quantities shall be made for this substitution.

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PLOT SCALE =	DRAWN - ZBD	REVISED -	
PLOT DATE =	CHECKED - EKM	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS II
STRUCTURE NO. 016-8370

SHEET SC-5 OF SC-6 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	99	135
		CONTRACT NO. 60R94		
		ILLINOIS	FED. AID PROJECT	

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Page 1 of 1

Date 6/11/21

ROUTE 95th Street DESCRIPTION Culvert Boring LOGGED BY EH

SECTION IL 171 & 95th Street LOCATION IL 171, SEC. 22, TWP. 37N, RNG. 12E,
Latitude 41.7171126, Longitude -87.897224

COUNTY COOK DRILLING RIG CME-75 HAMMER TYPE AUTO
DRILLING METHOD HSA HAMMER EFF (%) 91

STRUCT. NO. SN 016-8370
Station 326+89.13

BORING NO. CB-01
Station 326+36.85
Offset 31.99ft RT
Ground Surface Elev. 611.72 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter None ft
Upon Completion N/A ft
After N/A Hrs. N/A ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
4 inches of Topsoil	611.39				
Stiff Brown and Black, Moist to Very Moist CLAY LOAM (CL-S)			6		
			2	1.0	12
			6	P	
			3		
			2	1.0	38
		-5	4	P	
Medium Stiff to Stiff Brown, Moist to Very Moist SILTY CLAY, with sand and gravel (CL)	606.22				
			6		
			6	1.0	27
			9	P	
			1		
			2	1.0	20
		-10	1	P	
			7		
			5	0.8	21
			4	B	
Cobbles at 13.5-15 feet			11		
			9		9
		-15	7		
			4		
			4	0.5	24
			8	P	
			9		
			9	1.3	31
		-20	9	B	
Medium Stiff to Stiff Brown, Moist to Very Moist SILTY CLAY, with sand and gravel (CL) *(continued)*			2		
			2	1.3	24
			2	B	
Cobbles at 23.5-25 feet			50/6"		
				0.5	41
	586.72	-25		P	
End of Boring					
		-30			
		-35			
		-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Page 1 of 1

Date 6/21/21

ROUTE 95th Street DESCRIPTION Culvert Boring LOGGED BY JB

SECTION IL 171 & 95th Street LOCATION IL 171, SEC. 22, TWP. 37N, RNG. 12E,
Latitude 41.7170257, Longitude -87.8971602

COUNTY COOK DRILLING RIG Diedrich D-50 HAMMER TYPE AUTO
DRILLING METHOD HSA HAMMER EFF (%) 92

STRUCT. NO. SN 016-8370
Station 326+89.13

BORING NO. CB-02
Station 326+40.13
Offset 67.99ft RT
Ground Surface Elev. 612.06 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter None ft
Upon Completion N/A ft
After N/A Hrs. N/A ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
2 inches of Topsoil	611.90				
Stiff Brown and Dark Brown, Moist SILTY CLAY, trace gravel (CL)			2		
			2	1.3	16
			3	B	
			2		
			2	1.3	20
		-5	2	B	
			1		
			1	1.0	15
			2	B	
			1		
			1	1.0	21
		-10	2	B	
	601.06				
Loose to Medium Dense Brown, Moist GRAVEL, with clay and sand (GP)			3		
			5		11
			8		
No recovery at 13.5-15 feet			3		
			3		NR
		-15	5		
	596.06				
Medium Dense Brown, Wet SANDY CLAY LOAM, with gravel and cobbles (SC/SM)			6		
			11		17
			5		
	593.56				
Soft Brown, Moist CLAY LOAM, with gravel (CL-S)			2		
			3	0.4	20
		-20	3	B	
Soft Brown, Moist CLAY LOAM, with gravel (CL-S) *(continued)*			2		
			2	0.4	23
			4	B	
			4		
			7	0.4	19
		-25	9	B	
End of Boring					
		-30			
		-35			
		-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Page 1 of 1

Date 6/17/21

ROUTE 95th Street DESCRIPTION Culvert Boring LOGGED BY EH

SECTION IL 171 & 95th Street LOCATION IL 171, SEC. 22, TWP. 37N, RNG. 12E,
Latitude 41.7169469, Longitude -87.8971126

COUNTY COOK DRILLING RIG Diedrich D-50 HAMMER TYPE AUTO
DRILLING METHOD HSA HAMMER EFF (%) 92

STRUCT. NO. SN 016-8370
Station 326+89.13

BORING NO. CB-03
Station 326+40.52
Offset 99.53ft RT
Ground Surface Elev. 616.58 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter None ft
Upon Completion N/A ft
After N/A Hrs. N/A ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6 inches of Topsoil	616.08				
Stiff to Very Stiff Brown and Gray, Moist SILTY CLAY LOAM, with sand and gravel (ML/CL)			5		
			8	3.0	14
			9	P	
			4		
			4	1.5	14
		-5	4	P	
Stiff to Hard Brown, Moist to Very Moist SILTY CLAY, with sand and gravel (CL)	610.58				
			2		
			2	1.3	25
			3	B	
			2		
			2	1.3	23
		-10	2	B	
			4		
			7	1.0	12
			6	P	
			6		
			7	4.0	13
		-15	8	P	
			4		
			5	2.5	17
			5	B	
			6		
			9	5.0	13
		-20	12	B	
Very Stiff to Hard Gray, Moist SILTY CLAY, with sand and gravel (CL/ML)	595.58				
			7		
			11	3.3	12
			11	B	
			6		
			8	5.0	12
		-25	10	B	
End of Boring	591.58				
		-30			
		-35			
		-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

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COLLINS ENGINEERS INC.

USER NAME =	DESIGNED - MPR	REVISED -	
	CHECKED - EKM	REVISED -	
PLOT SCALE =	DRAWN - ZBD	REVISED -	
PLOT DATE =	CHECKED - EKM	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT SOIL BORINGS
STRUCTURE NO. 016-8370

SHEET SC-6 OF SC-6 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	100	135
		CONTRACT NO. 60R94		
		ILLINOIS	FED. AID PROJECT	

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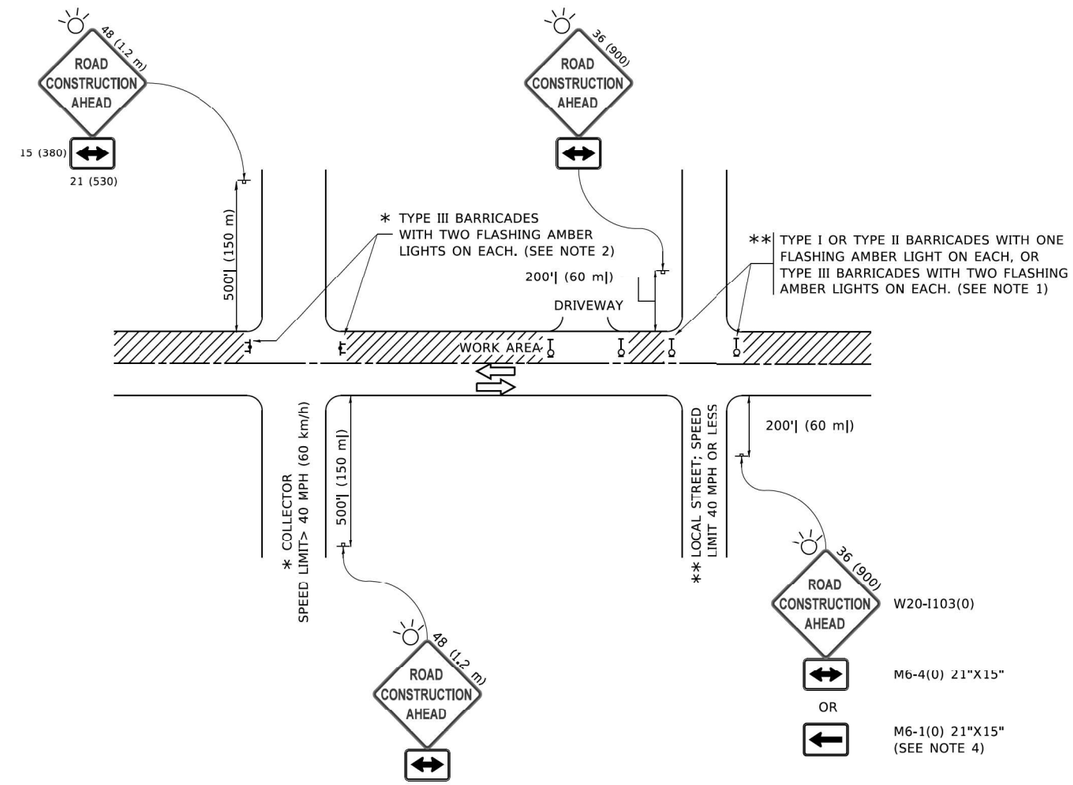


NOTES:

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

   a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.

   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.

2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

   a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.

   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.

3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.

4. 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.

USER NAME = footemj	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96	
	DRAWN -	REVISED - T. RAMMACHER 01-06-00	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13	
PLOT DATE = 3/4/2019	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16	

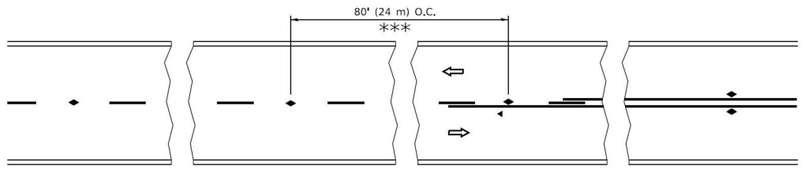
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

135 101

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

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

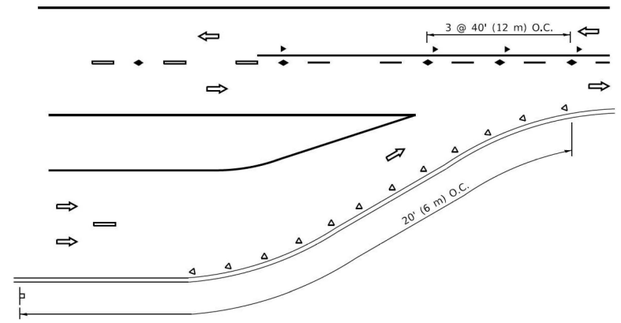
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			135	101
	TC-10	CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



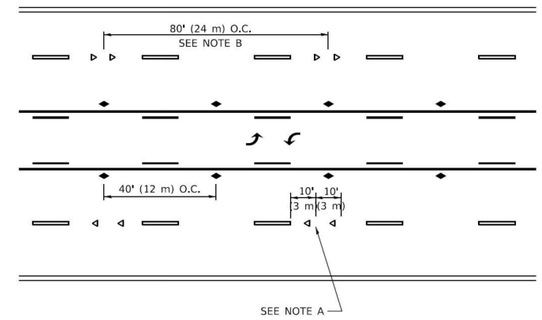
*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

TWO–LANE/TWO–WAY

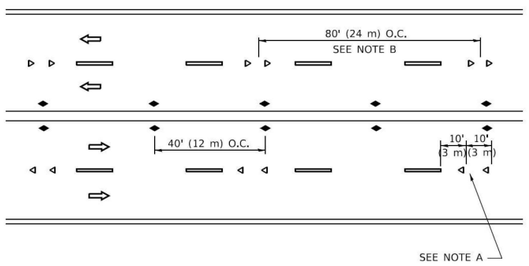
SEE FIGURE 3B-14 MUTCD



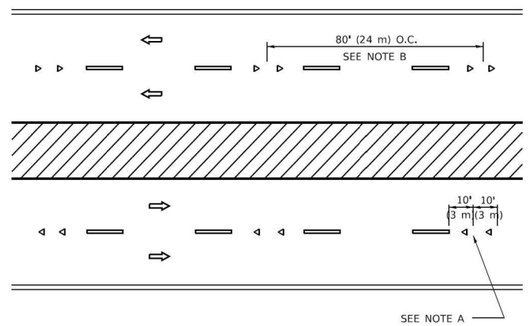
LANE REDUCTION TRANSITION



TWO–WAY LEFT TURN



MULTI–LANE/UNDIVIDED



MULTI–LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.
4. MARKERS ARE TO BE USED ADJACENT TO BOTH SOLID WHITE LINES IN DUAL LEFT TURN LANES

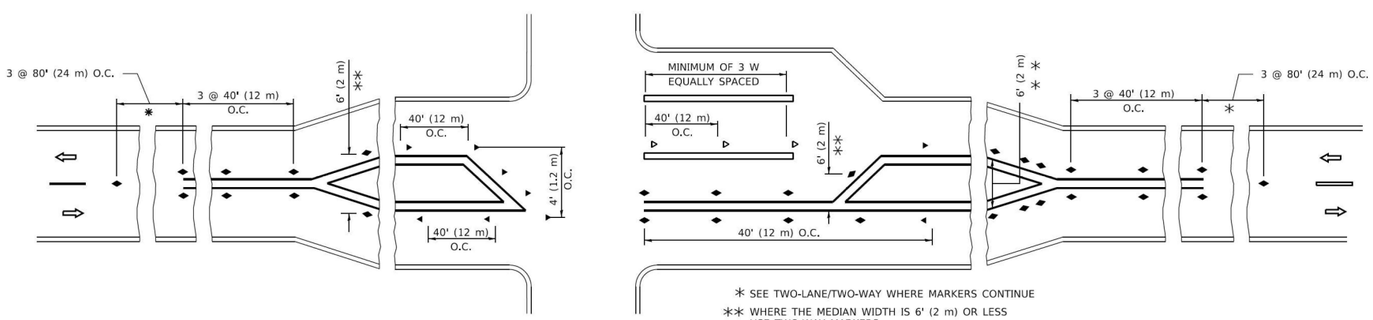
SYMBOLS

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

LANE MARKER NOTES

A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.



* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE

** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

TURN LANES

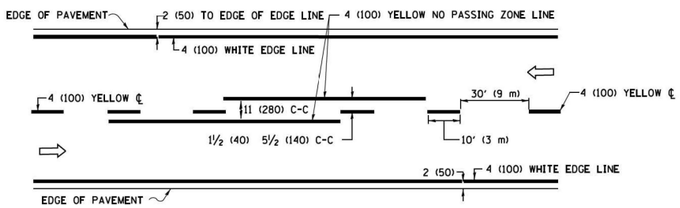
DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.

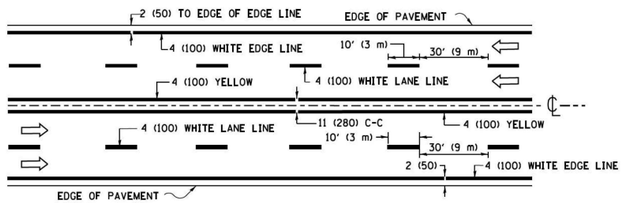
All dimensions are in inches (millimeters) unless otherwise shown.

MODEL: Default
FILE NAME: pw:\\IL084EBIDINTEC.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\DistStd22x34\CADData\CADsheets\tc11.dgn

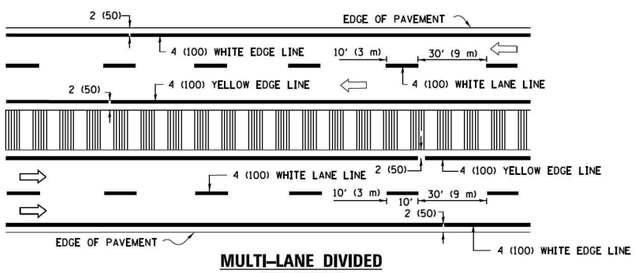
AMES Engineering, Inc. CONSULTING ENGINEERS 6330 Belmont Road, Suite 4B Downers Grove, IL 60515	USER NAME = footemj	DESIGNED -	REVISED - T. RAMMACHER 03-12-99	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW–PLOW RESISTANT)	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED - T. RAMMACHER 01-06-00						135	102
	PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - C. JUCIUS 09-09-09				TC–11	CONTRACT NO.		
	PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 07-01-13		SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT		



2–LANE ROADWAY

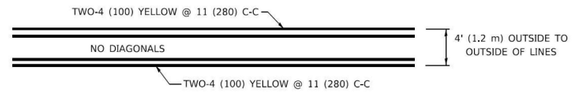


MULTI–LANE UNDIVIDED

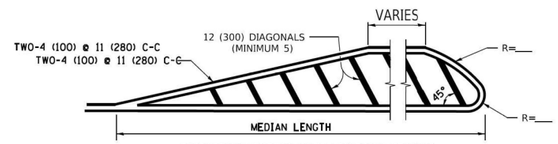


MULTI–LANE DIVIDED
WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING



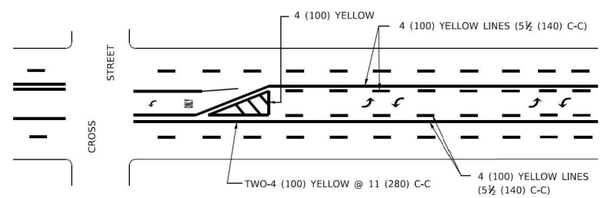
4' (1.2 m) WIDE MEDIANS ONLY



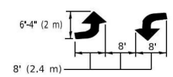
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

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

MEDIANS OVER 4' (1.2 m) WIDE

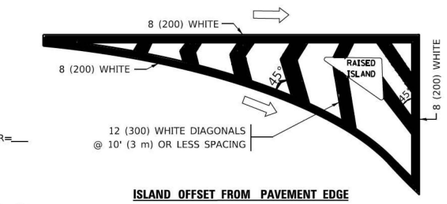


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.

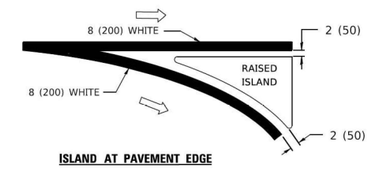


MEDIAN WITH TWO–WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

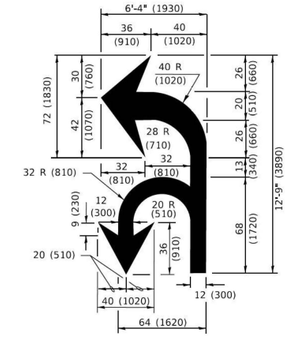


ISLAND OFFSET FROM PAVEMENT EDGE

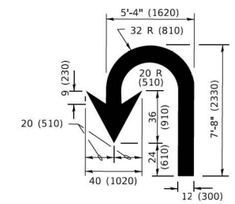


ISLAND AT PAVEMENT EDGE

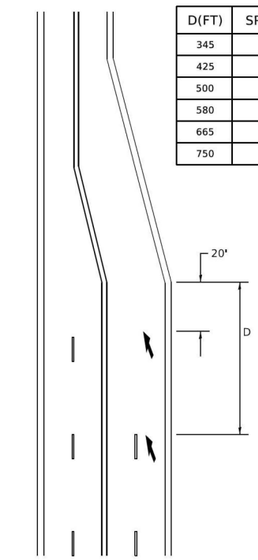
TYPICAL ISLAND MARKING



COMBINATION LEFT AND U–TURN



U–TURN



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

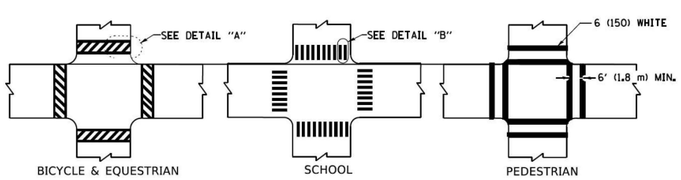
LANE REDUCTION TRANSITION

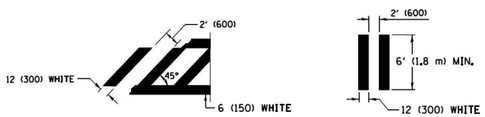
* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (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; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ^{2}) EACH "X"=54.0 SQ. FT. (5.0 m ^{2})
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS $\geq$ 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.

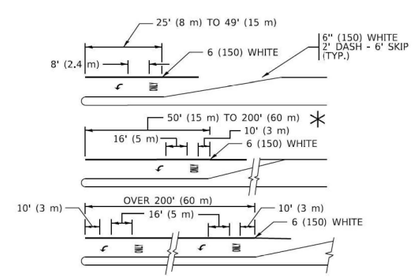




DETAIL "A" **DETAIL "B"**

TYPICAL CROSSWALK MARKING

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



FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m ^{2}) **ONLY** AREA = 20.8 SQ. FT. (1.9 m ^{2}

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

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

MODEL: Default
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6330 Belmont Road, Suite 4B
Downers Grove, IL 60515

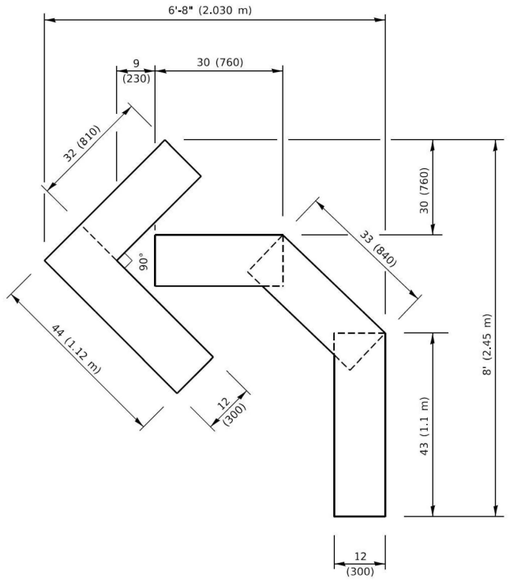
USER NAME = footemj	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09	
	DRAWN -	REVISED - C. JUCIUS 07-01-13	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - C. JUCIUS 12-21-15	
PLOT DATE = 3/4/2019	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

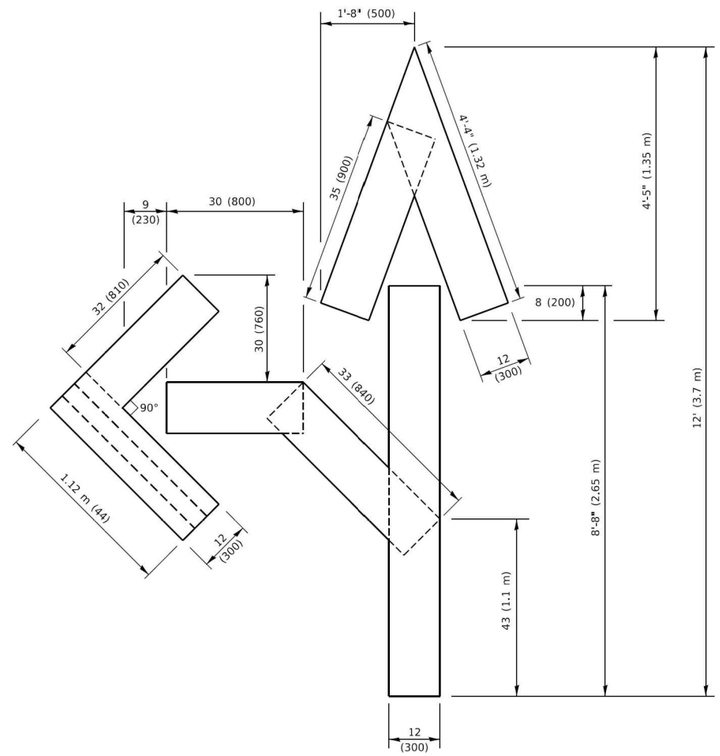
SCALE: NONE | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			135	103
	TC–13	CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		



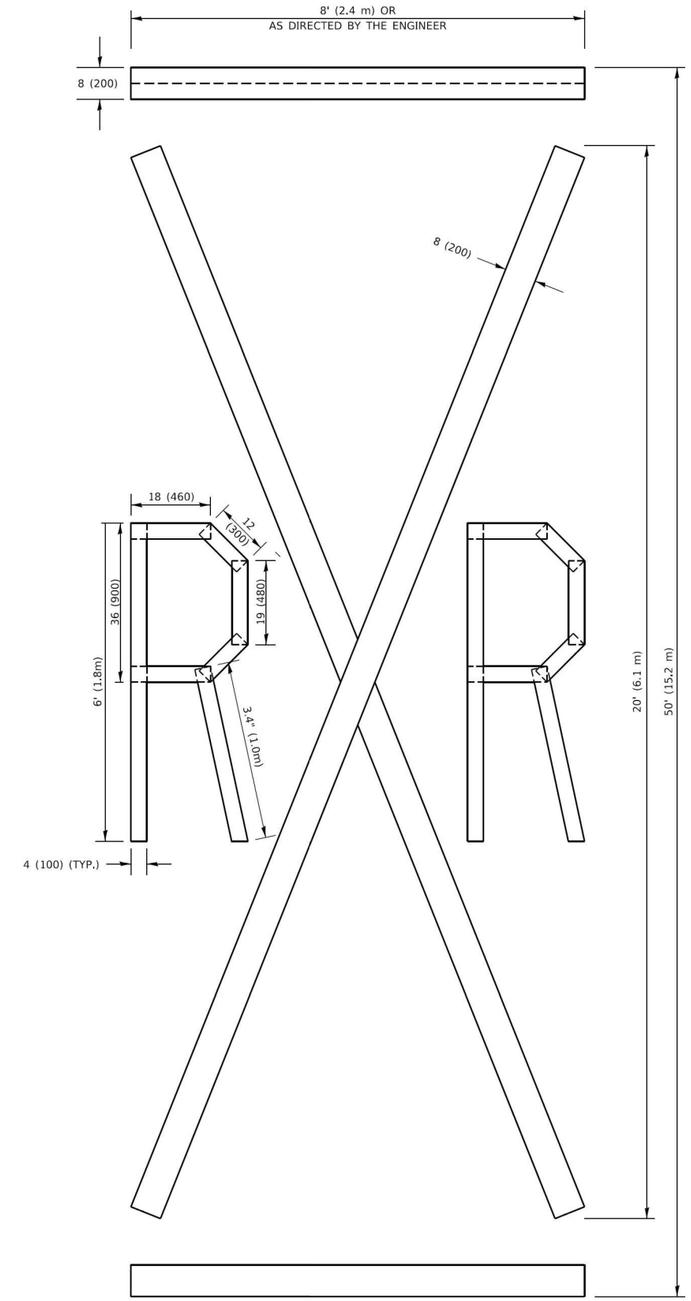
QUANTITY

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



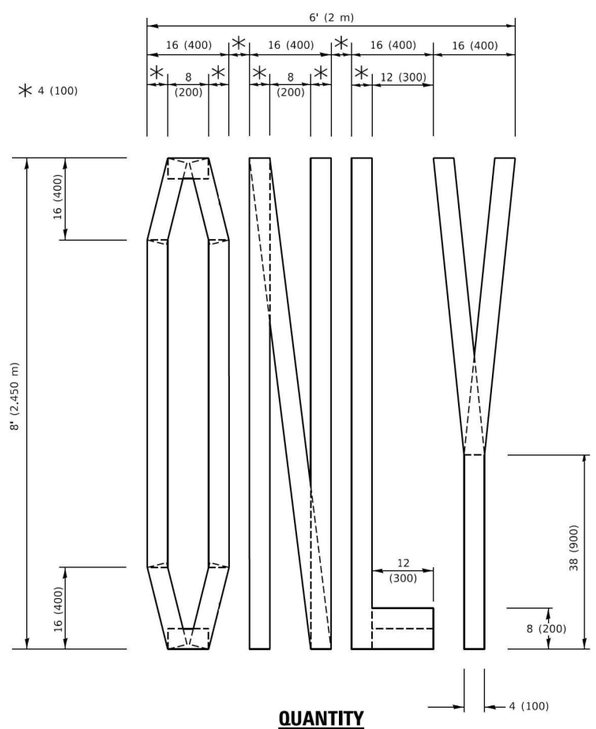
QUANTITY

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



QUANTITY

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



QUANTITY

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

NOTE:

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

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

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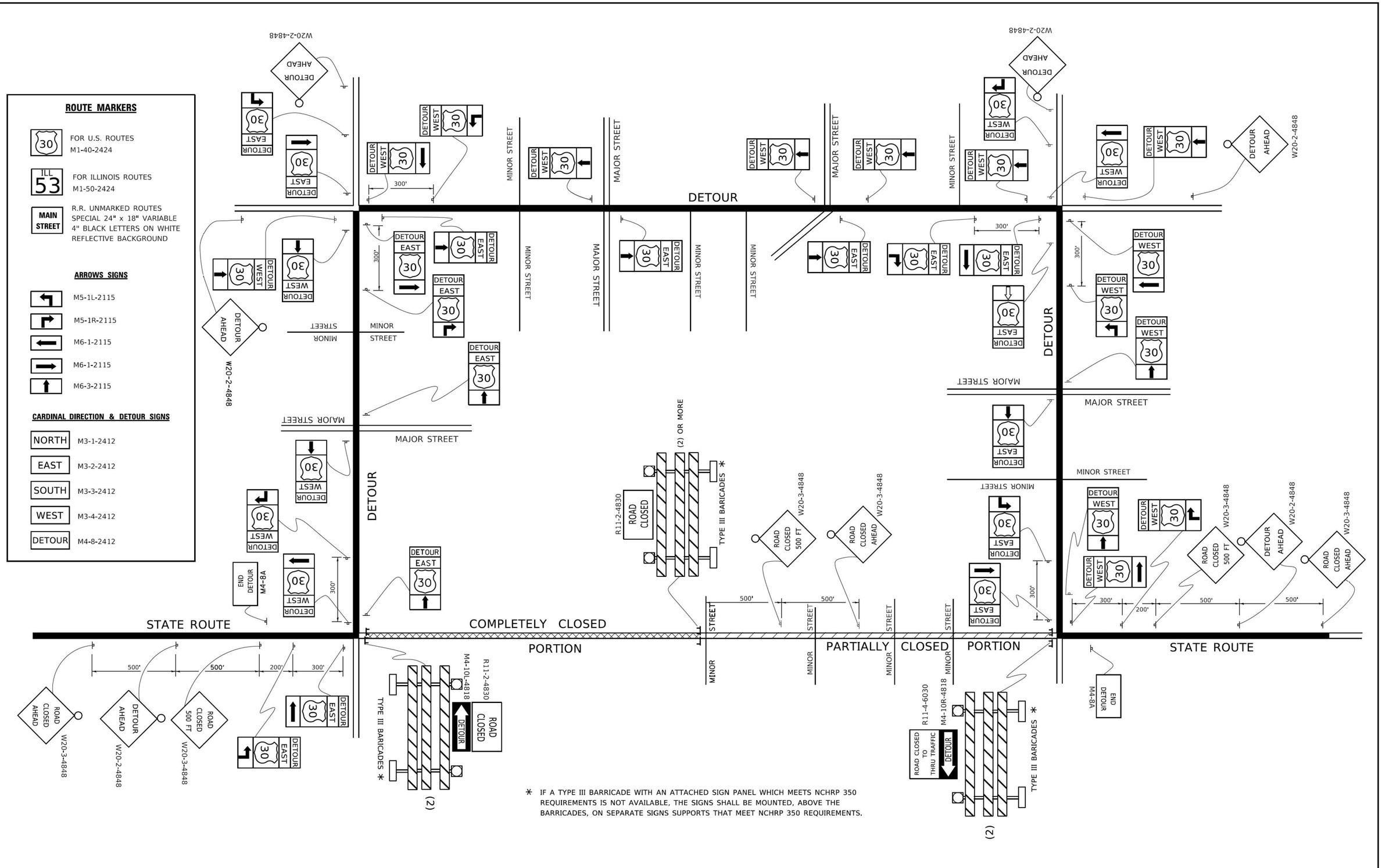
AMES Engineering, Inc. CONSULTING ENGINEERS 6330 Belmont Road, Suite 4B Downers Grove, IL 60515	USER NAME = footemj	DESIGNED -	REVISED - T. RAMMACHER 03-02-98	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
		DRAWN -	REVISED - E. GOMEZ 08-28-00						135 / 104
	PLOT SCALE = 50.0068 ' / in.	CHECKED -	REVISED - E. GOMEZ 08-28-00			TC-16		CONTRACT NO.	
	PLOT DATE = 3/4/2019	DATE - 09-18-94	REVISED - A. SCHUETZE 09-15-16		SCALE: NONE / SHEET 1 OF 1 SHEETS / STA. TO STA.		ILLINOIS	FED. AID PROJECT	



* 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.

MODEL: Default
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CONSULTING ENGINEERS
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Downers Grove, IL 60515

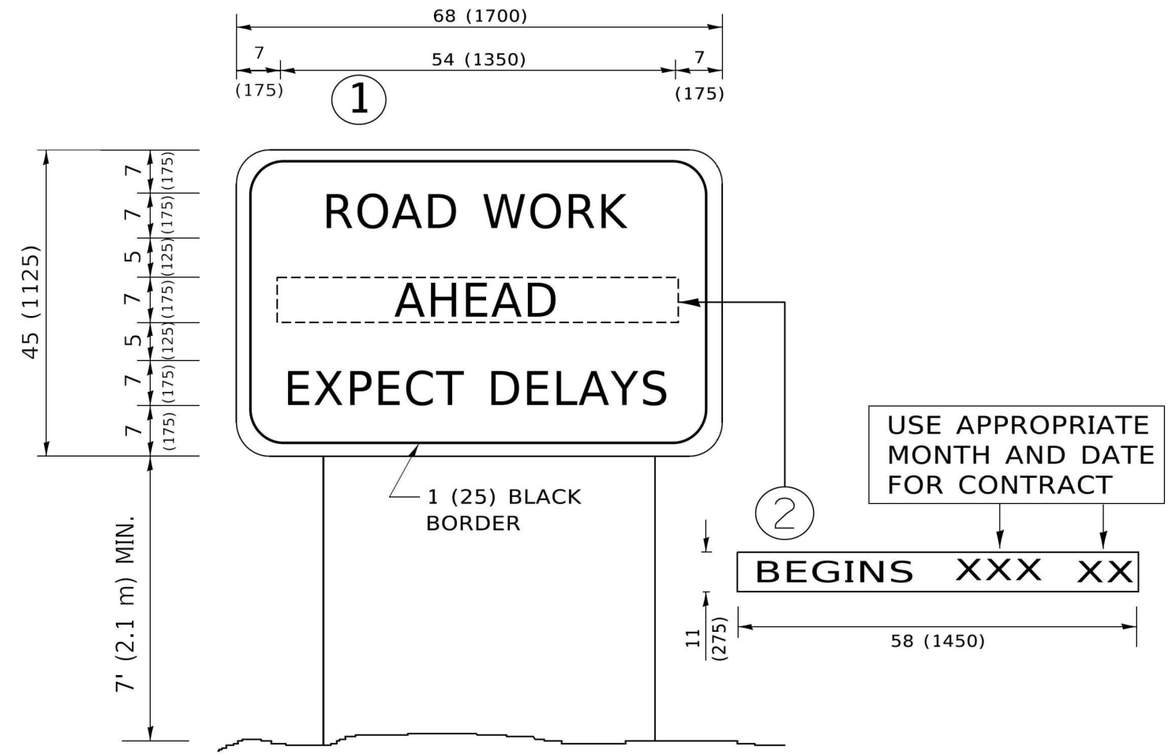
USER NAME = footemj	DESIGNED -	REVISED -	10-18-02
	DRAWN -	REVISED -	R. BORO 09-14-09
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 3/4/2019	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETOUR SIGNING FOR CLOSING STATE HIGHWAYS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			135	105
	TC-21	CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		



NOTES:

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

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

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AMES Engineering, Inc. CONSULTING ENGINEERS 6330 Belmont Road, Suite 4B Downers Grove, IL 60515	USER NAME = footemj	DESIGNED -	REVISED - R. MIRS 09-15-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED - R. MIRS 12-11-97						135	106
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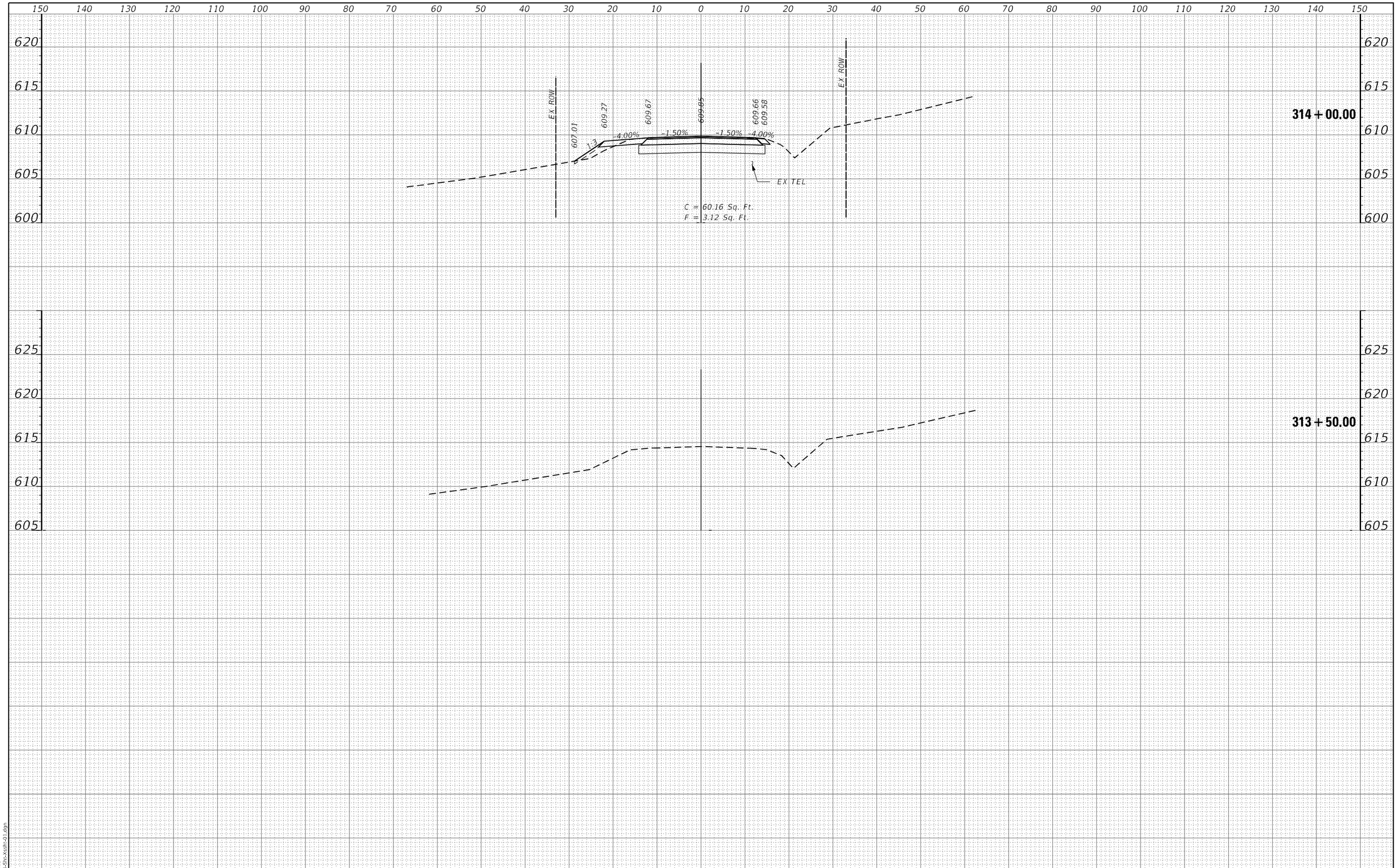
	PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		



AMES Engineering, Inc. CONSULTING ENGINEERS 6330 Belmont Road, Suite 4B Downers Grove, IL 60515	USER NAME = Srahman	DESIGNED - JAR	REVISED -
		DRAWN - SR	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - AS	REVISED -
	PLOT DATE = 5/23/2025	DATE - 03/18/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL RTE 171 (ARCHER AVE)

SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	107

CONTRACT NO. 60R94

ILLINOIS | FED. AID PROJECT

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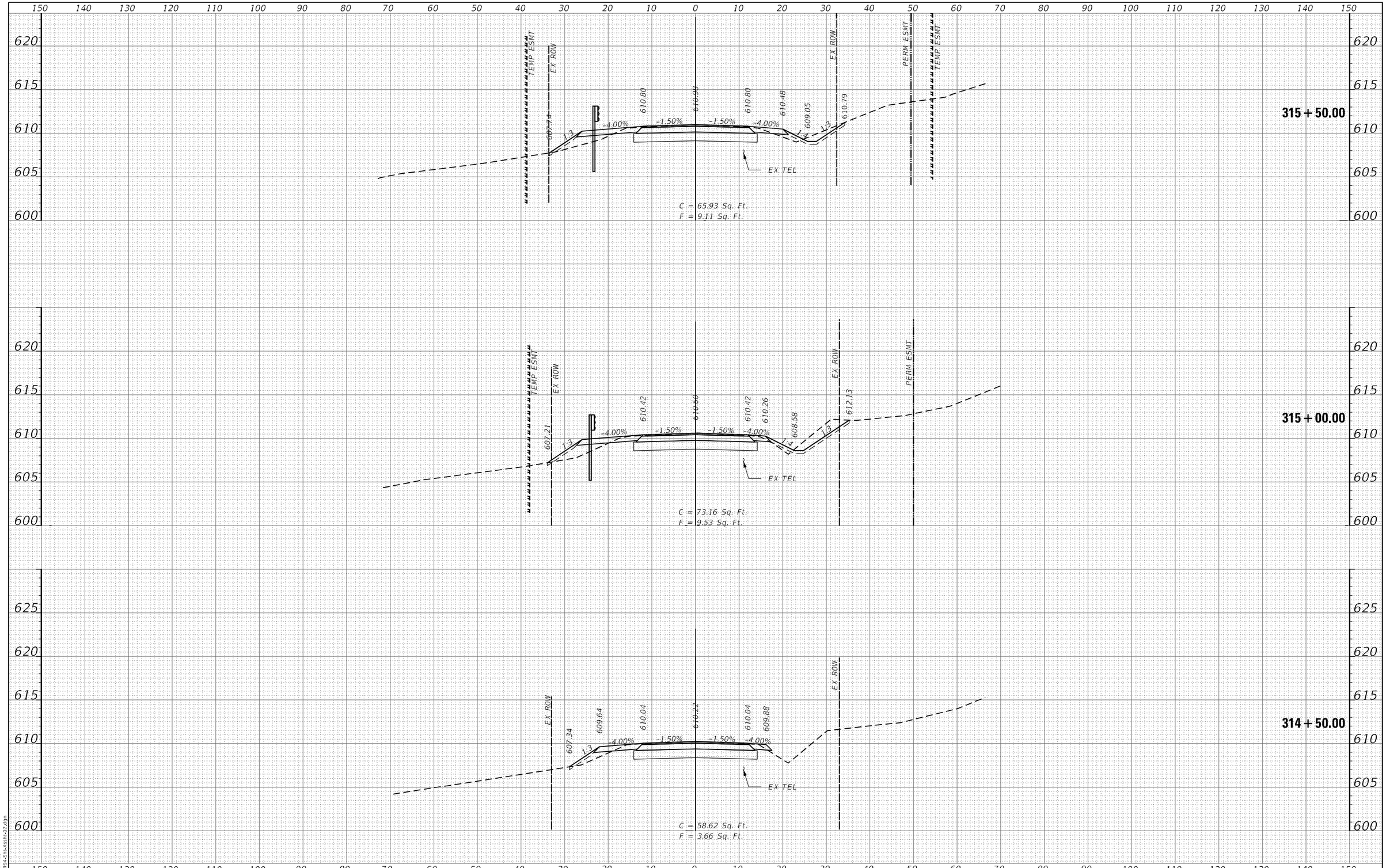

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CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60515

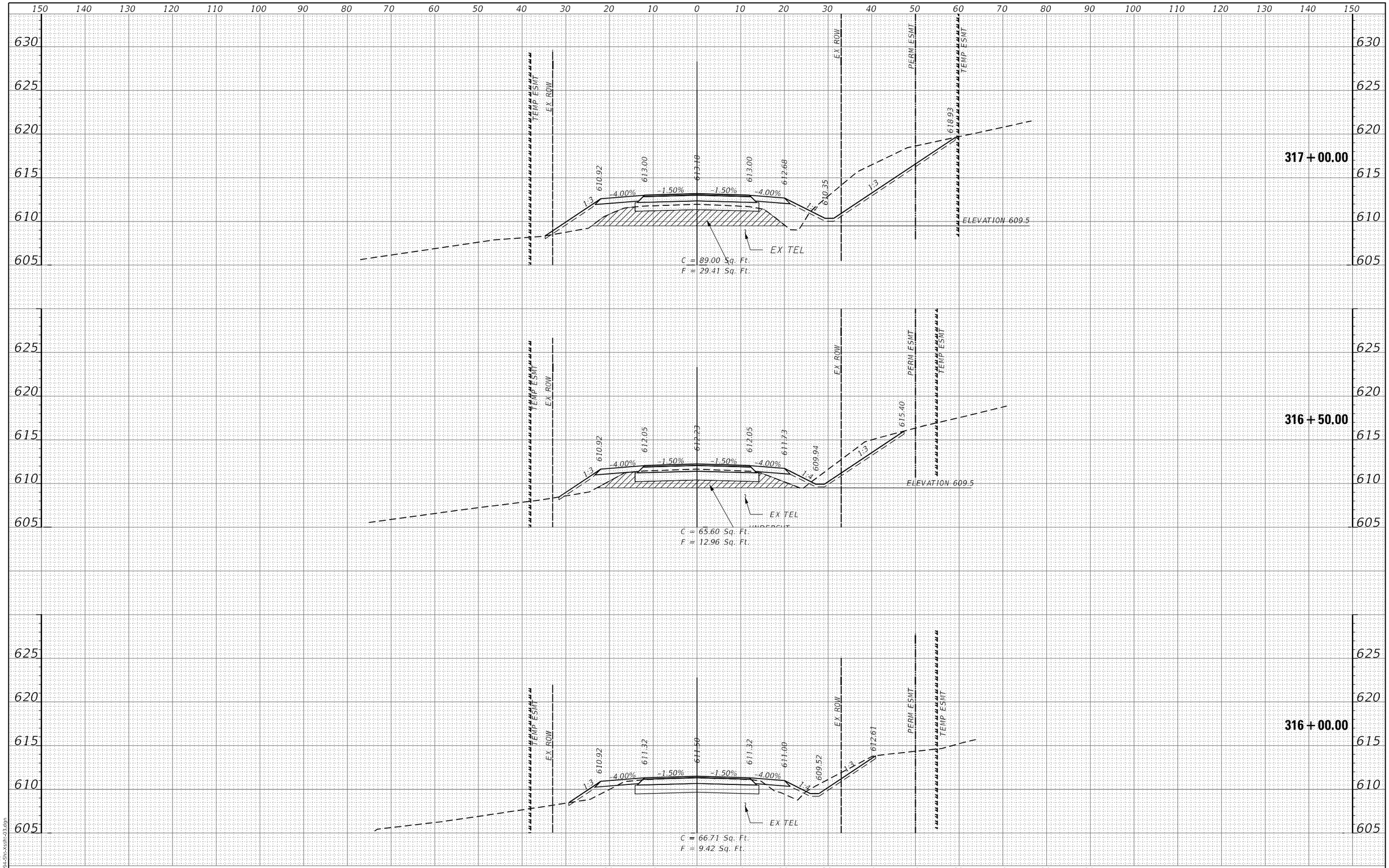
USER NAME = Srahman	DESIGNED - JAR	REVISED -
	DRAWN - SR	REVISED -
PLOT SCALE = $SCALE$	CHECKED - AS	REVISED -
PLOT DATE = 5/23/2025	DATE - 03/18/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL RTE 171 (ARCHER AVE)

SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	108
		CONTRACT NO. 60R94		
		ILLINOIS	FED. AID PROJECT	



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AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 48
Downers Grove, IL 60515

USER NAME = Srahman	DESIGNED - JAR	REVISED -
	DRAWN - SR	REVISED -
PLOT SCALE = 5SCALES	CHECKED - AS	REVISED -
PLOT DATE = 5/23/2025	DATE - 03/18/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

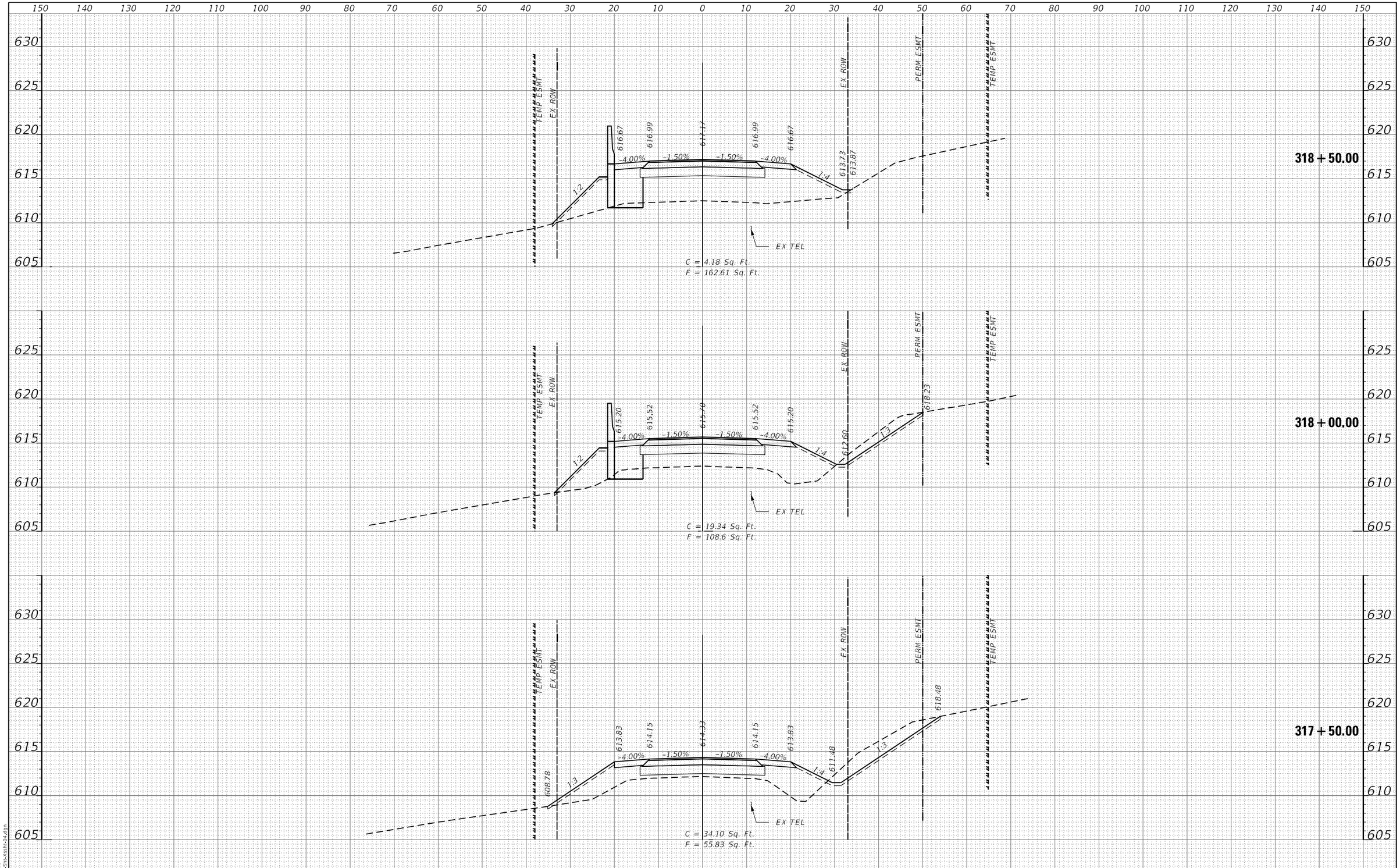
PROPOSED CROSS SECTIONS
IL RTE 171 (ARCHER AVE)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	109

CONTRACT NO. 60R94

ILLINOIS FED. AID PROJECT



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AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60515

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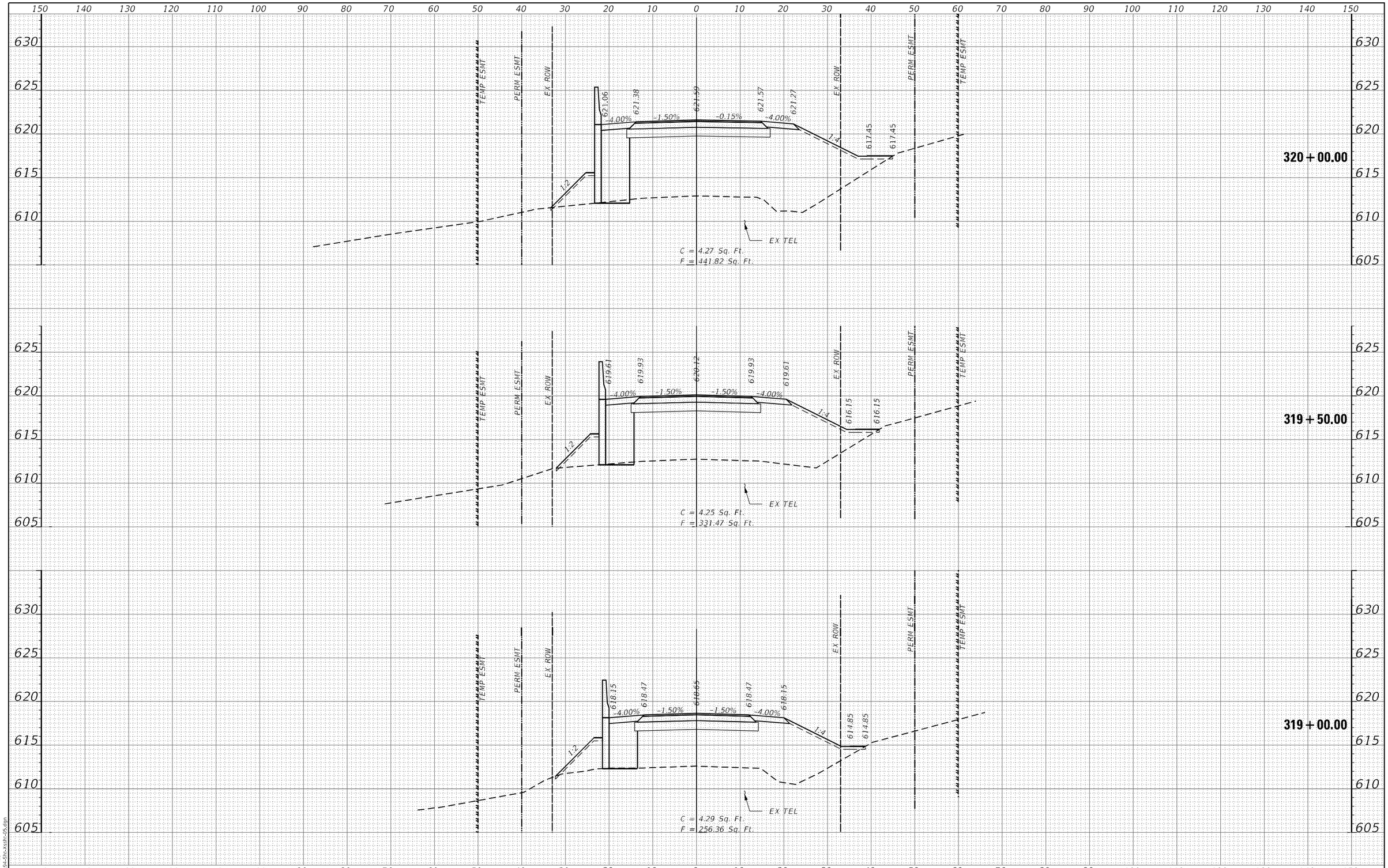
PLOT SCALE = $SCALE$	CHECKED - AS	REVISED -
PLOT DATE = 5/23/2025	DATE - 03/18/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL RTE 171 (ARCHER AVE)

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	110
		CONTRACT NO. 60R94		
		ILLINOIS	FED. AID PROJECT	



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AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60515

USER NAME = Srahman	DESIGNED - JAR	REVISED -	
	DRAWN - SR	REVISED -	
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PLOT DATE = 5/23/2025	DATE - 03/18/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

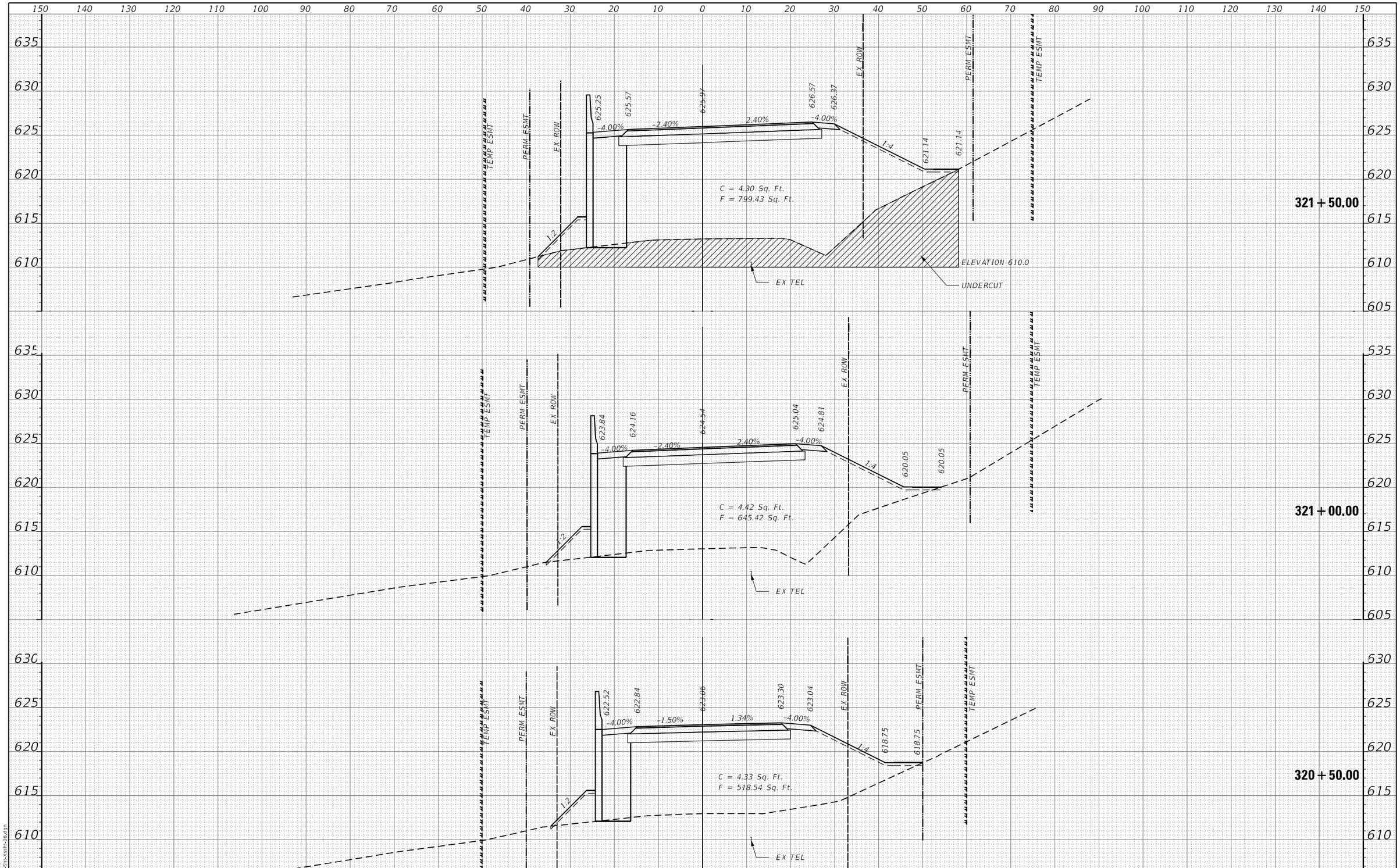
PROPOSED CROSS SECTIONS
IL RTE 171 (ARCHER AVE)

SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	111

CONTRACT NO. 60R94

ILLINOIS | FED. AID PROJECT



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AMES Engineering, Inc. CONSULTING ENGINEERS 6330 Belmont Road, Suite 48 Downers Grove, IL 60515	USER NAME = Srahman	DESIGNED - JAR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED CROSS SECTIONS IL RTE 171 (ARCHER AVE)
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F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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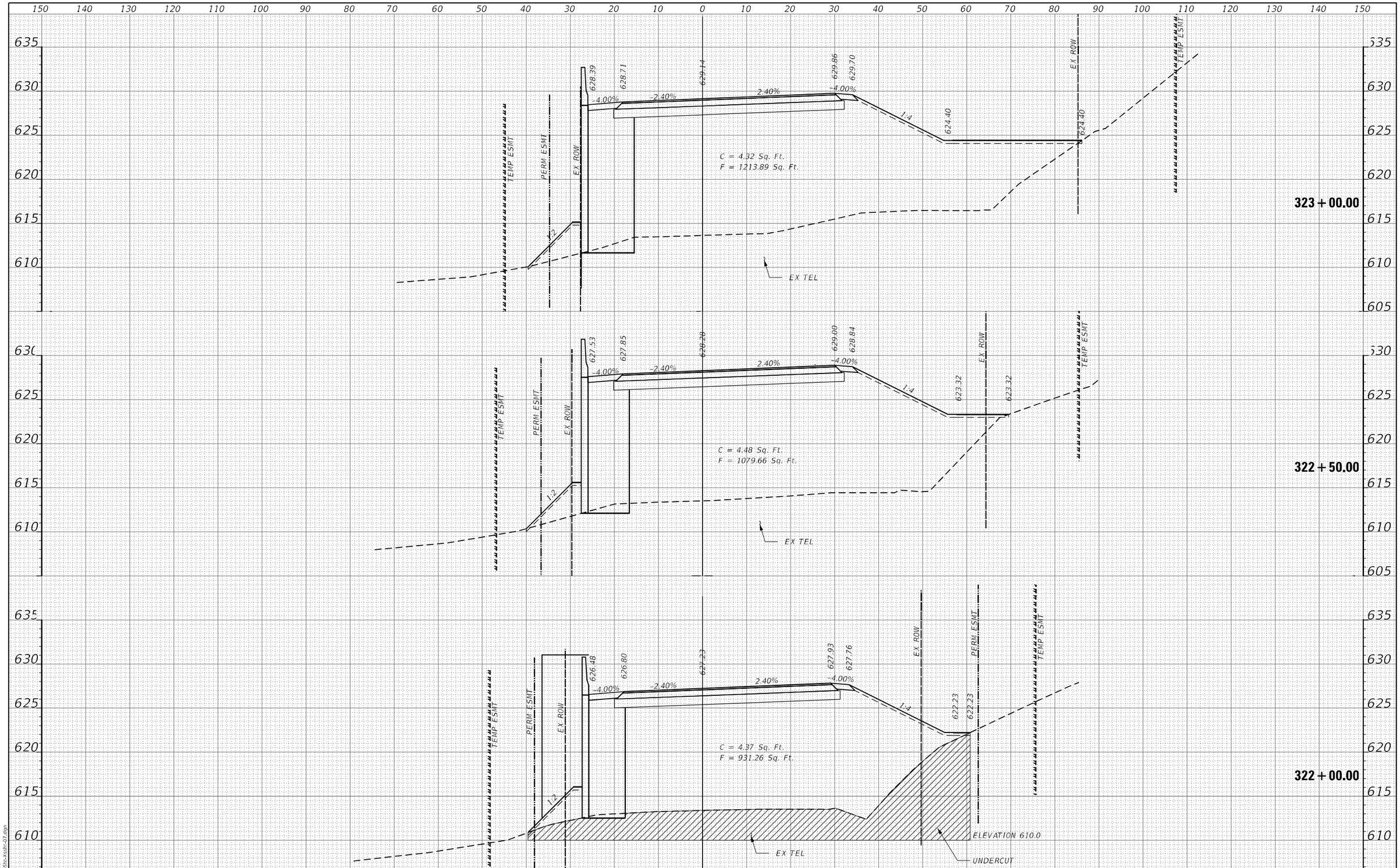

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AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60515

USER NAME = Srahman	DESIGNED - JAR	REVISED -
	DRAWN - SR	REVISED -
PLOT SCALE = $SCALE$	CHECKED - AS	REVISED -
PLOT DATE = 5/23/2025	DATE - 03/18/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

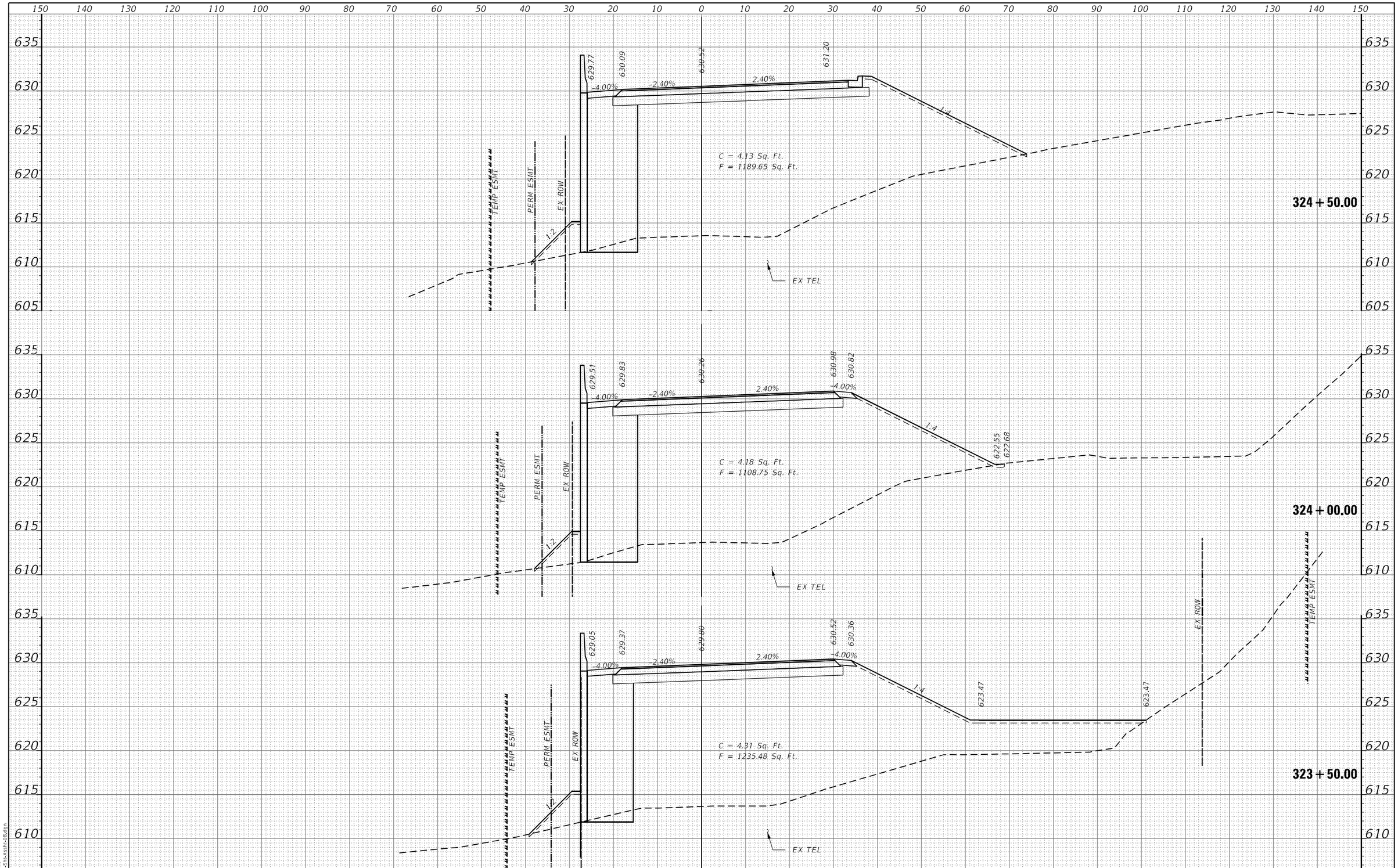
PROPOSED CROSS SECTIONS
IL RTE 171 (ARCHER AVE)

SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	113

CONTRACT NO. 60R94

ILLINOIS | FED. AID PROJECT



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CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60515

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	DRAWN - SR	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - AS	REVISED -	
PLOT DATE = 5/23/2025	DATE - 03/18/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

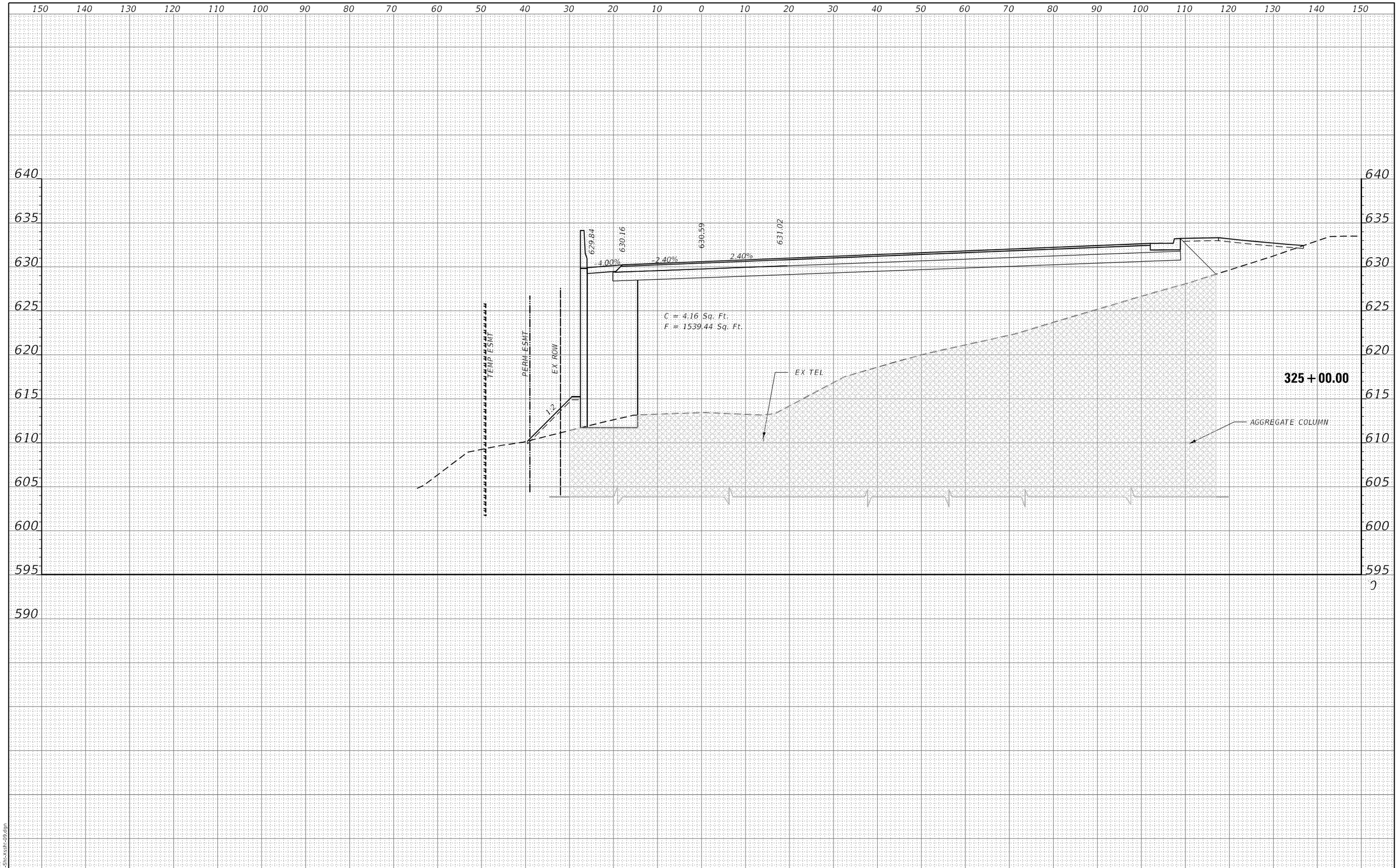
PROPOSED CROSS SECTIONS
IL RTE 171 (ARCHER AVE)

SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	114

CONTRACT NO. 60R94

ILLINOIS | FED. AID PROJECT



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AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60515

USER NAME = Srahman	DESIGNED - JAR	REVISED -
	DRAWN - SR	REVISED -
PLOT SCALE = $SCALE$	CHECKED - AS	REVISED -
PLOT DATE = 5/23/2025	DATE - 03/18/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

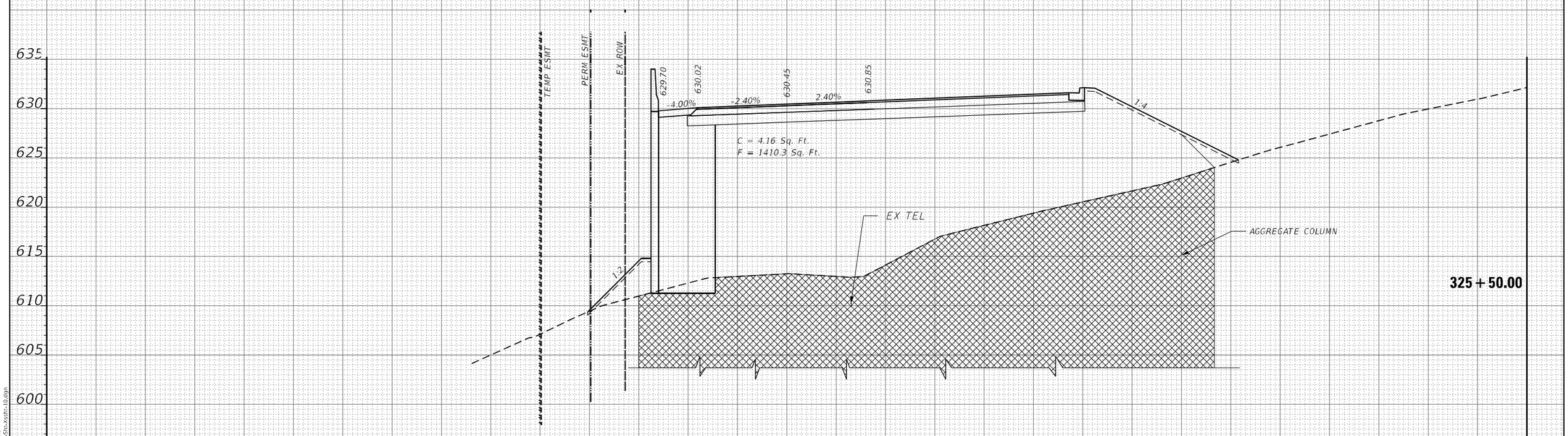
PROPOSED CROSS SECTIONS
IL RTE 171 (ARCHER AVE)

SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	115

CONTRACT NO. 60R94

ILLINOIS | FED. AID PROJECT



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AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60515

USER NAME = Srahman	DESIGNED - JAR	REVISED -	
	DRAWN - SR	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - AS	REVISED -	
PLOT DATE = 5/23/2025	DATE - 03/18/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

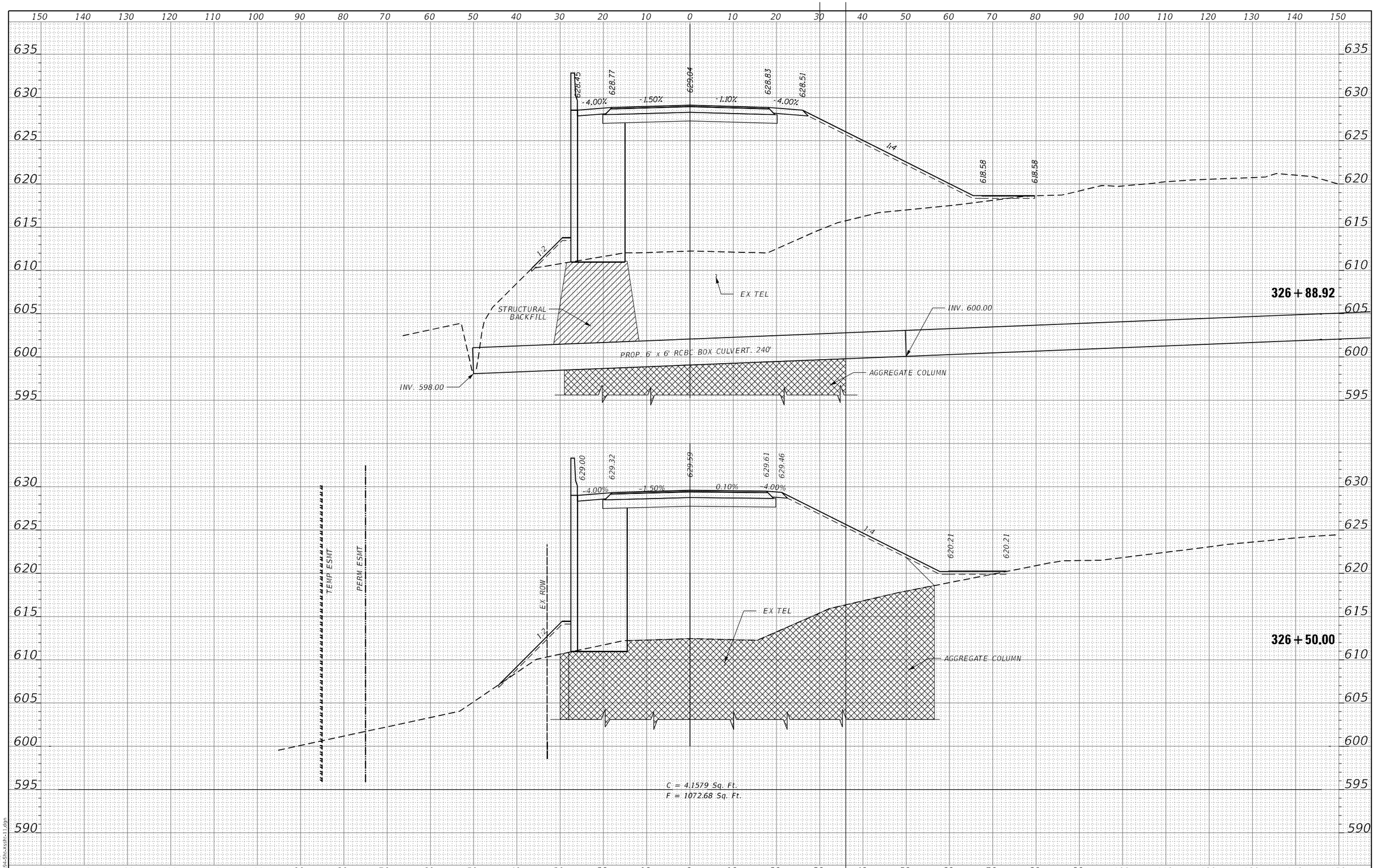
PROPOSED CROSS SECTIONS
IL RTE 171 (ARCHER AVE)

SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	116

CONTRACT NO. 60R94

ILLINOIS | FED. AID PROJECT



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AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60515

USER NAME = Srahman	DESIGNED - JAR	REVISED -	
	DRAWN - SR	REVISED -	
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PLOT DATE = 5/23/2025	DATE - 03/18/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

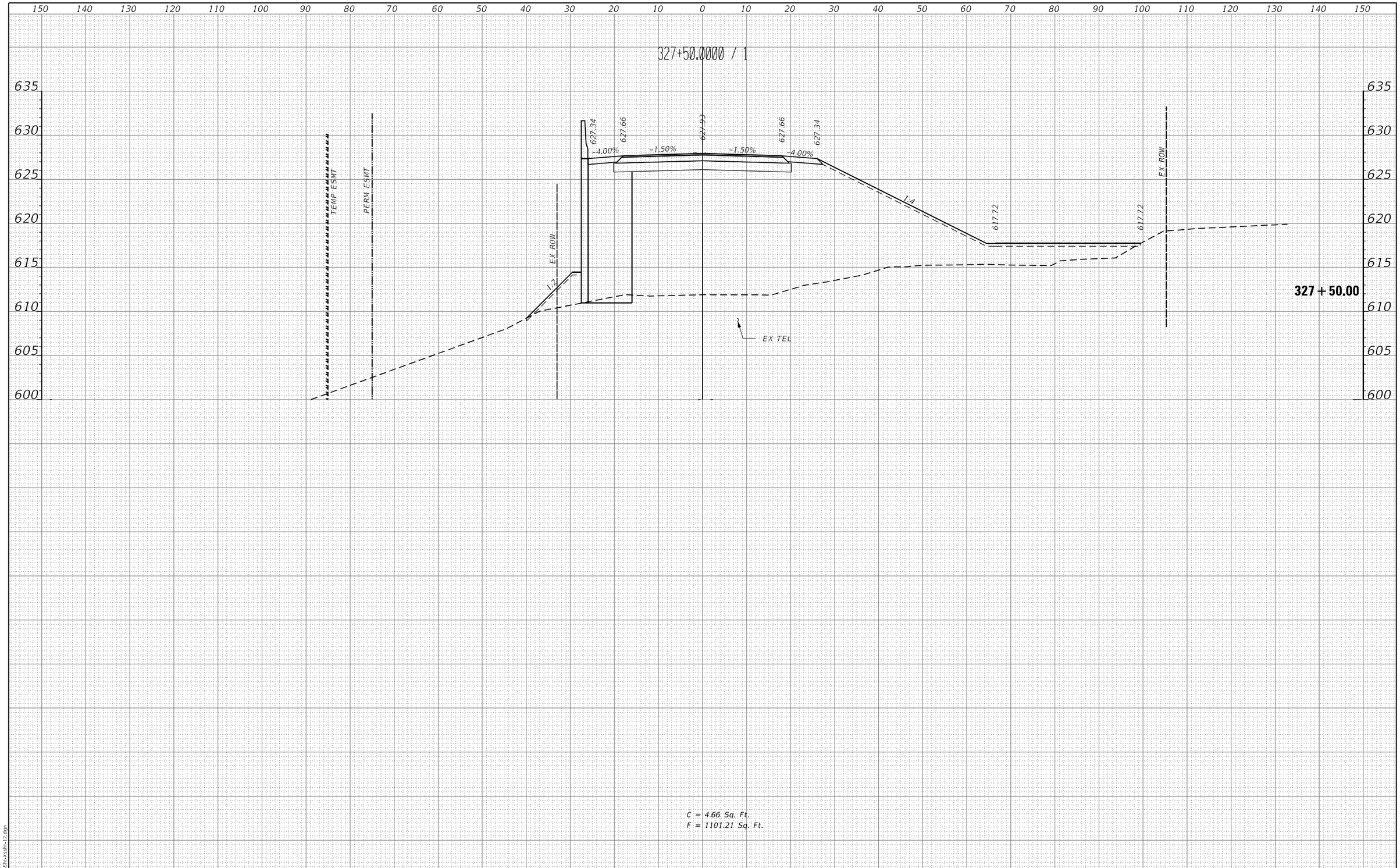
PROPOSED CROSS SECTIONS
IL RTE 171 (ARCHER AVE)

SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	117

CONTRACT NO. 60R94

ILLINOIS | FED. AID PROJECT



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AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 48
Downers Grove, IL 60515

USER NAME = Srahman	DESIGNED - JAR	REVISED -
	DRAWN - SR	REVISED -
PLOT SCALE = $SCALES	CHECKED - AS	REVISED -
PLOT DATE = 5/23/2025	DATE - 03/18/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

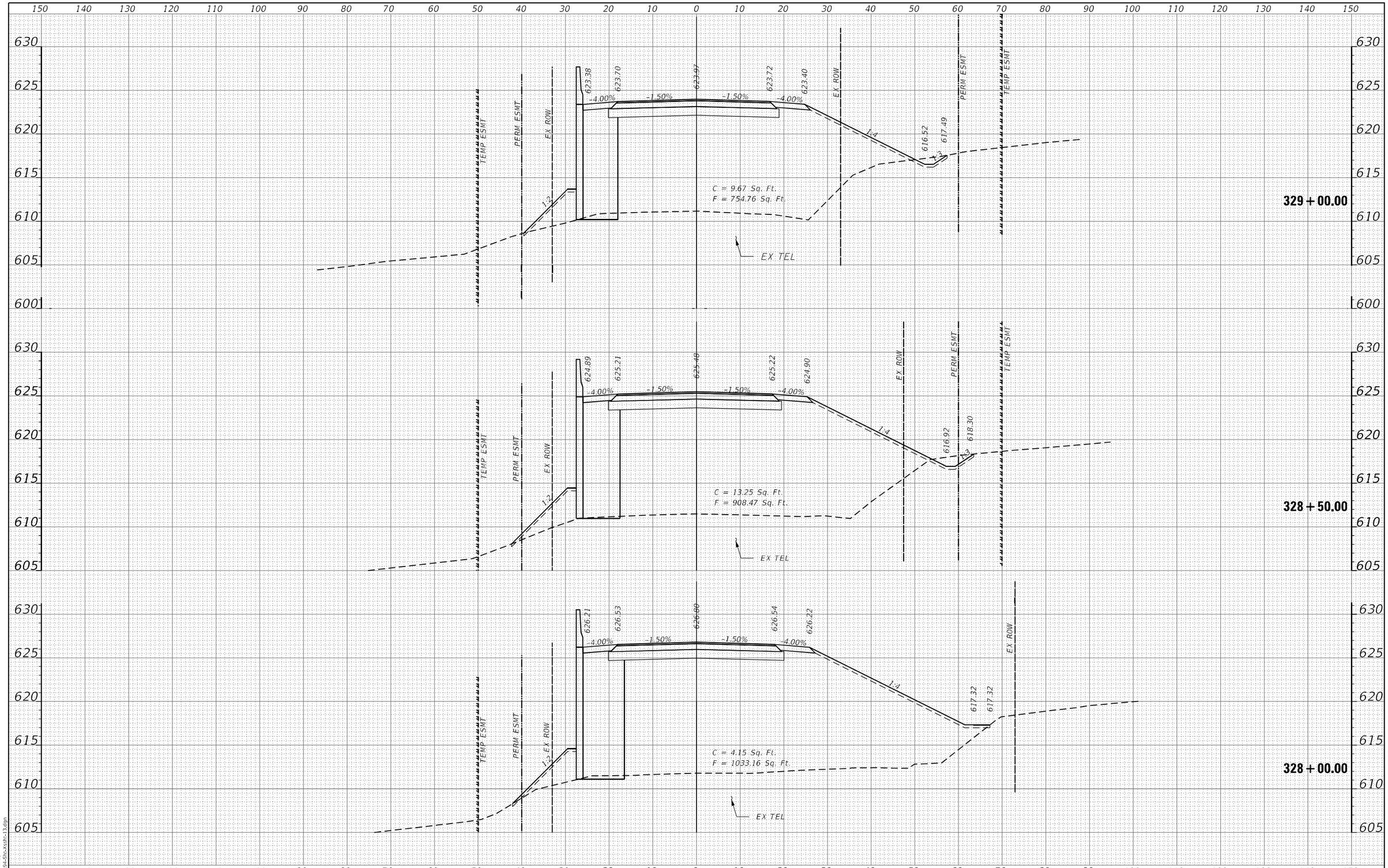
PROPOSED CROSS SECTIONS
IL RTE 171 (ARCHER AVE)

SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	118

CONTRACT NO. 60R94

ILLINOIS | FED. AID PROJECT



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AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60515

USER NAME = Srahman	DESIGNED - JAR	REVISED -
	DRAWN - SR	REVISED -
PLOT SCALE = $SCALE$	CHECKED - AS	REVISED -
PLOT DATE = 5/23/2025	DATE - 03/18/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

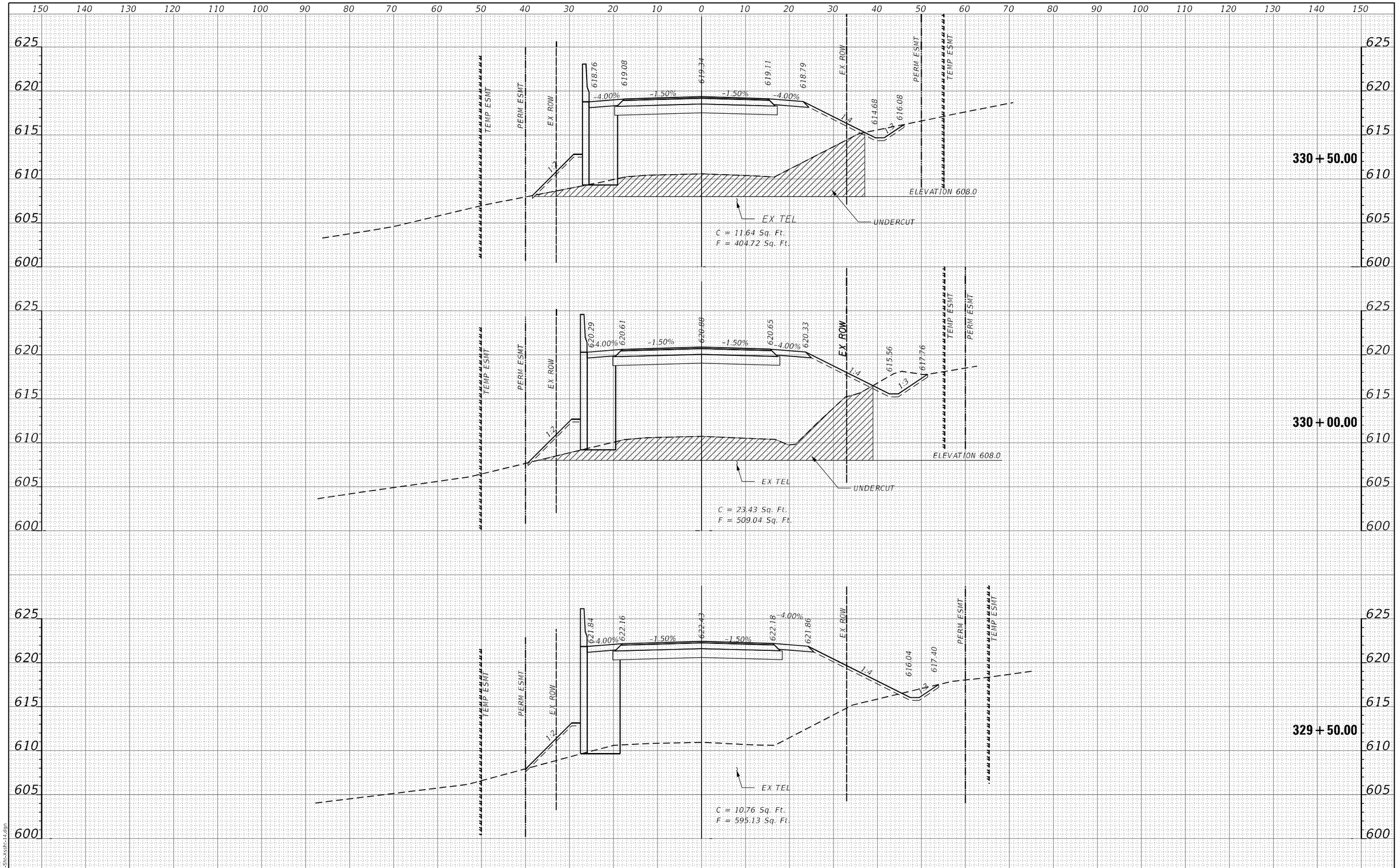
PROPOSED CROSS SECTIONS
IL RTE 171 (ARCHER AVE)

SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	119

CONTRACT NO. 60R94

ILLINOIS | FED. AID PROJECT



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AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60515

USER NAME = Srahman	DESIGNED - JAR	REVISED -
	DRAWN - SR	REVISED -
PLOT SCALE = $SCALE$	CHECKED - AS	REVISED -
PLOT DATE = 5/23/2025	DATE - 03/18/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

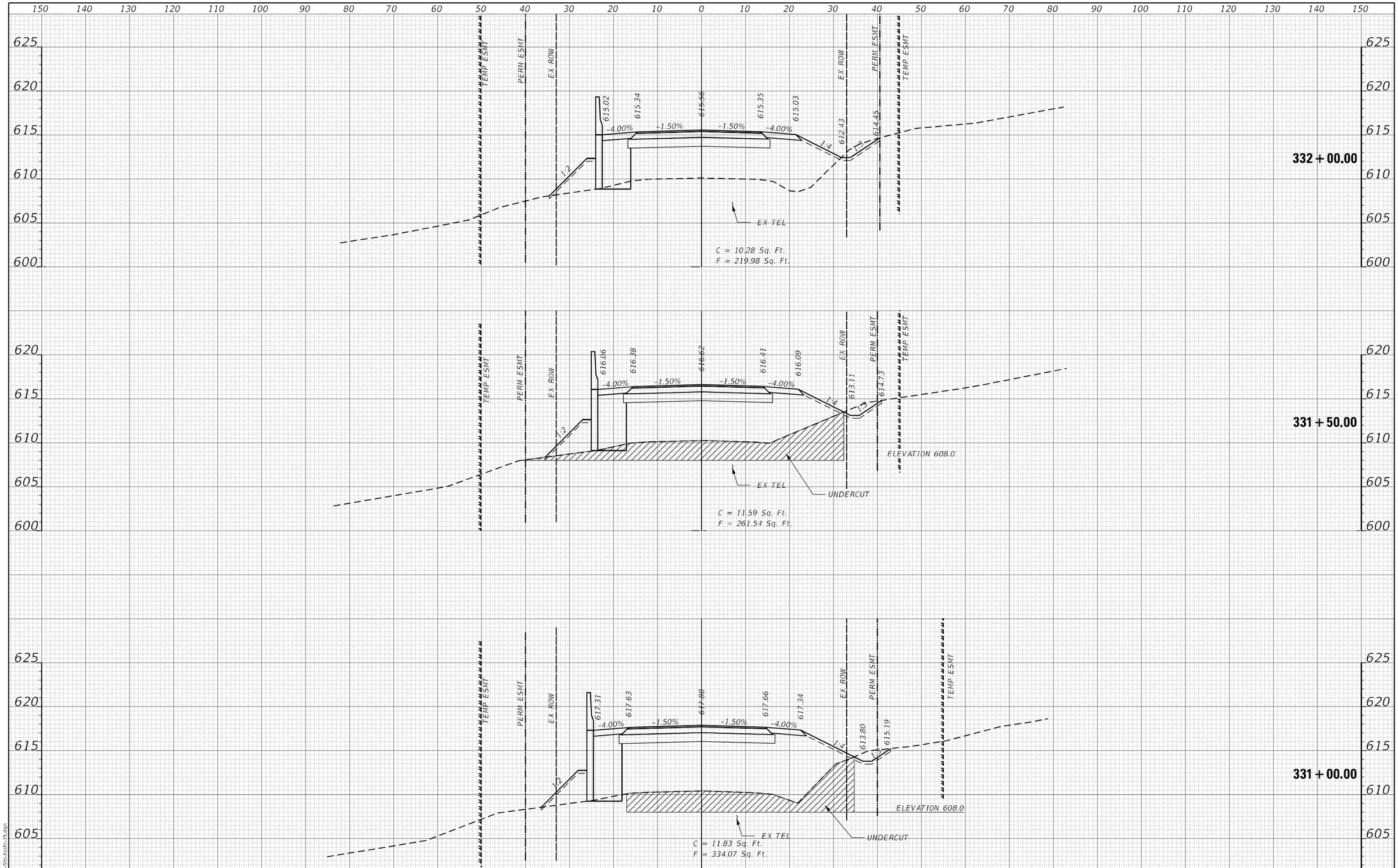
PROPOSED CROSS SECTIONS
IL RTE 171 (ARCHER AVE)

SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	120

CONTRACT NO. 60R94

ILLINOIS | FED. AID PROJECT



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AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60515

USER NAME = Srahman	DESIGNED - JAR	REVISED -	
	DRAWN - SR	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - AS	REVISED -	
PLOT DATE = 5/23/2025	DATE - 03/18/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

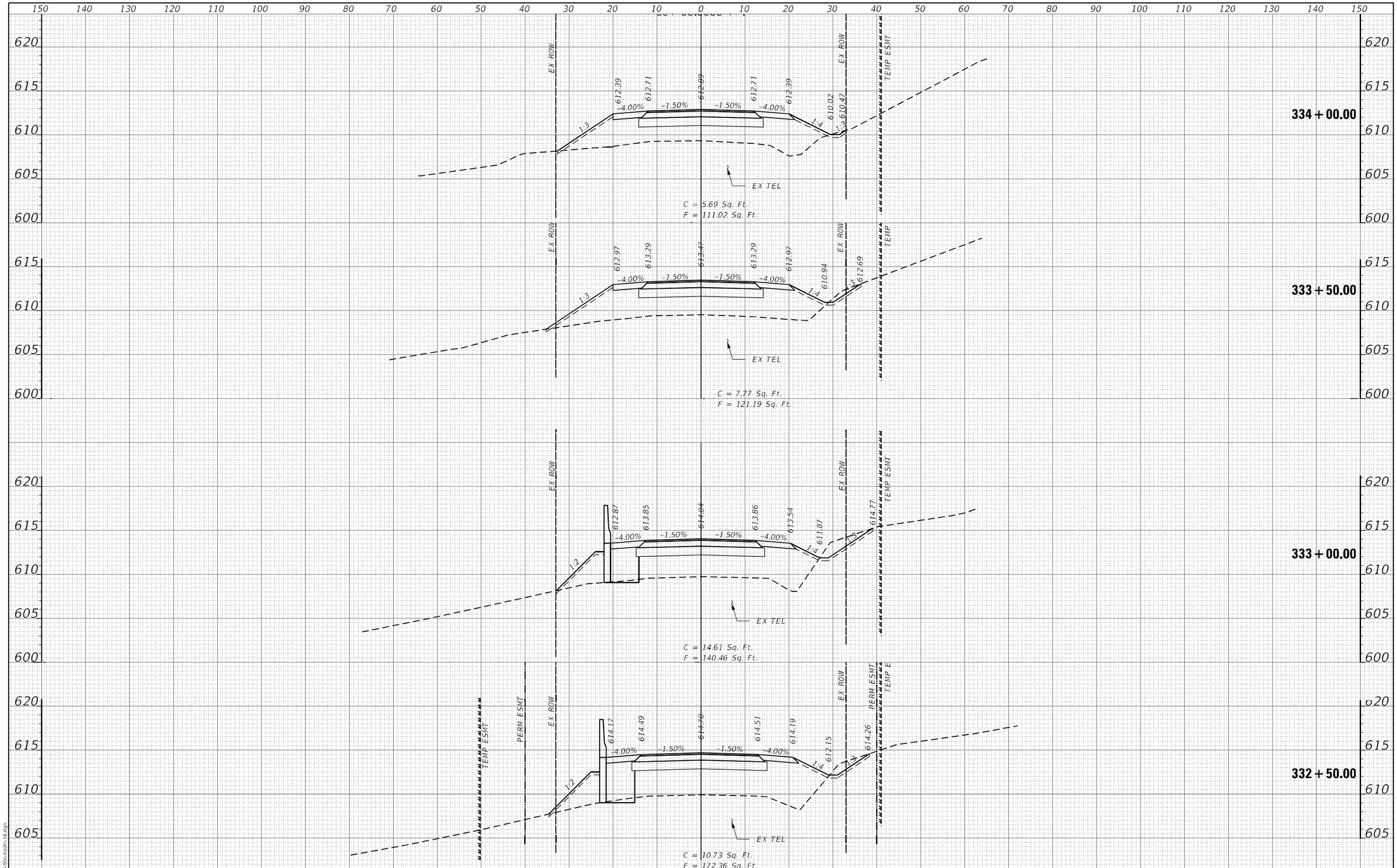
PROPOSED CROSS SECTIONS
IL RTE 171 (ARCHER AVE)

SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	121

CONTRACT NO. 60R94

ILLINOIS | FED. AID PROJECT



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AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60515

USER NAME = Srahman	DESIGNED - JAR	REVISED -	
	DRAWN - SR	REVISED -	
PLOT SCALE = $SCALES	CHECKED - AS	REVISED -	
PLOT DATE = 5/23/2025	DATE - 03/18/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

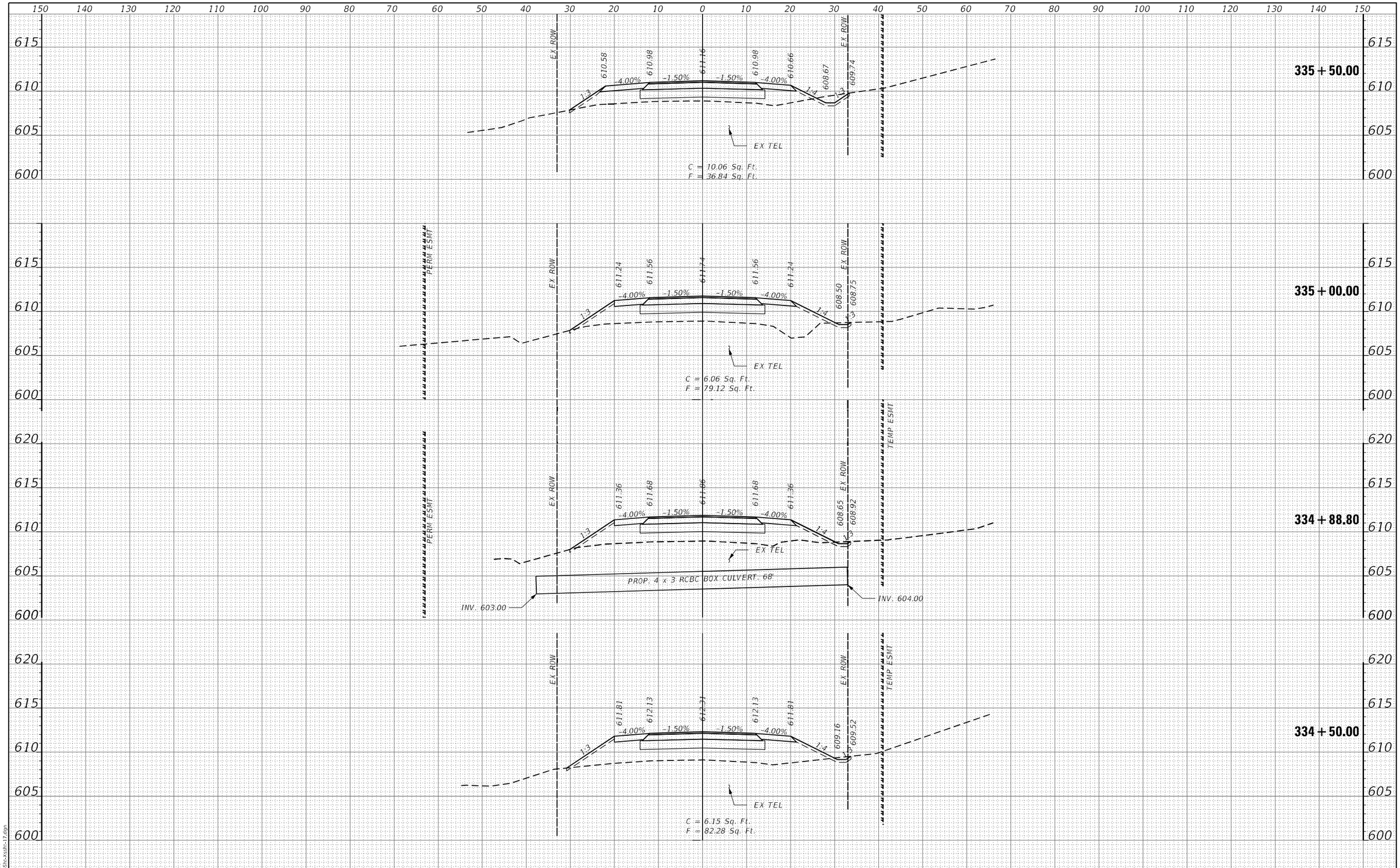
PROPOSED CROSS SECTIONS
IL RTE 171 (ARCHER AVE)

SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	122

CONTRACT NO. 60R94

ILLINOIS | FED. AID PROJECT



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AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60515

USER NAME = Srahman	DESIGNED - JAR	REVISED -	
	DRAWN - SR	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - AS	REVISED -	
PLOT DATE = 5/23/2025	DATE - 03/18/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

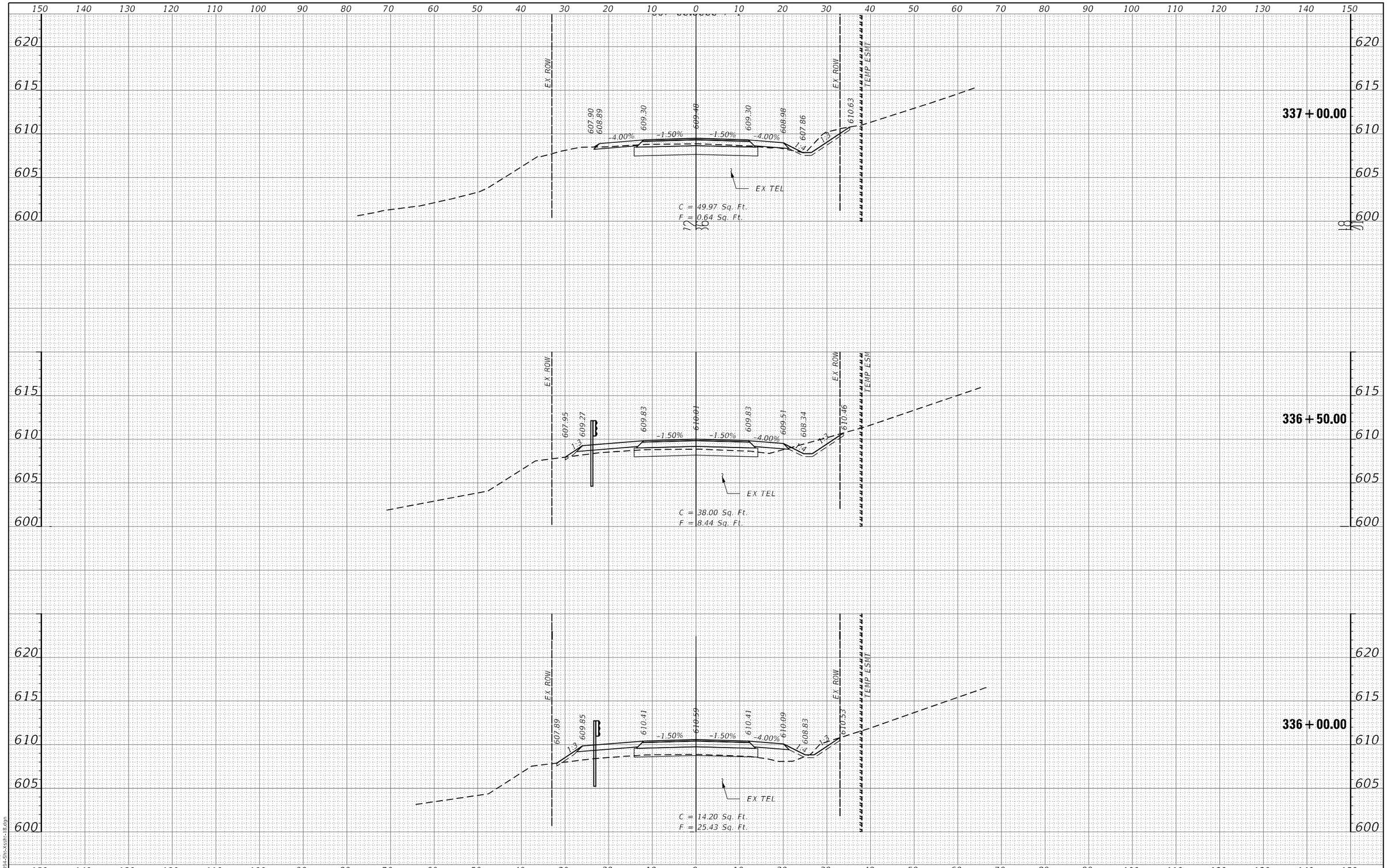
PROPOSED CROSS SECTIONS
IL RTE 171 (ARCHER AVE)

SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	123

CONTRACT NO. 60R94

ILLINOIS | FED. AID PROJECT



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AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 48
Downers Grove, IL 60515

USER NAME = Srahman	DESIGNED - JAR	REVISED -
	DRAWN - SR	REVISED -
PLOT SCALE = $SCALES	CHECKED - AS	REVISED -
PLOT DATE = 5/23/2025	DATE - 03/18/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

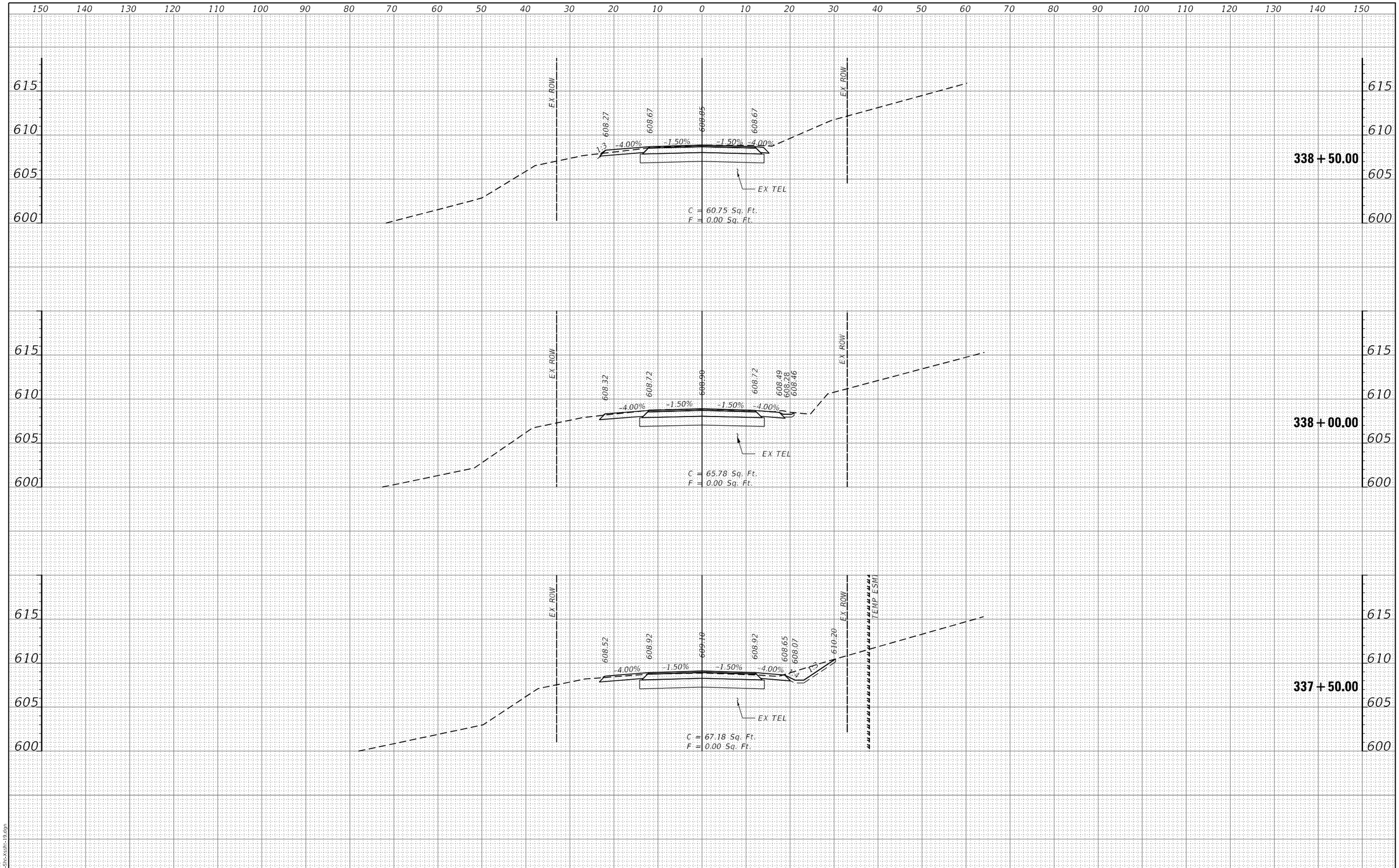
PROPOSED CROSS SECTIONS
IL RTE 171 (ARCHER AVE)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	124

CONTRACT NO. 60R94

ILLINOIS FED. AID PROJECT



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AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60515

USER NAME = Srahman	DESIGNED - JAR	REVISED -
	DRAWN - SR	REVISED -
PLOT SCALE = $SCALE$	CHECKED - AS	REVISED -
PLOT DATE = 5/23/2025	DATE - 03/18/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

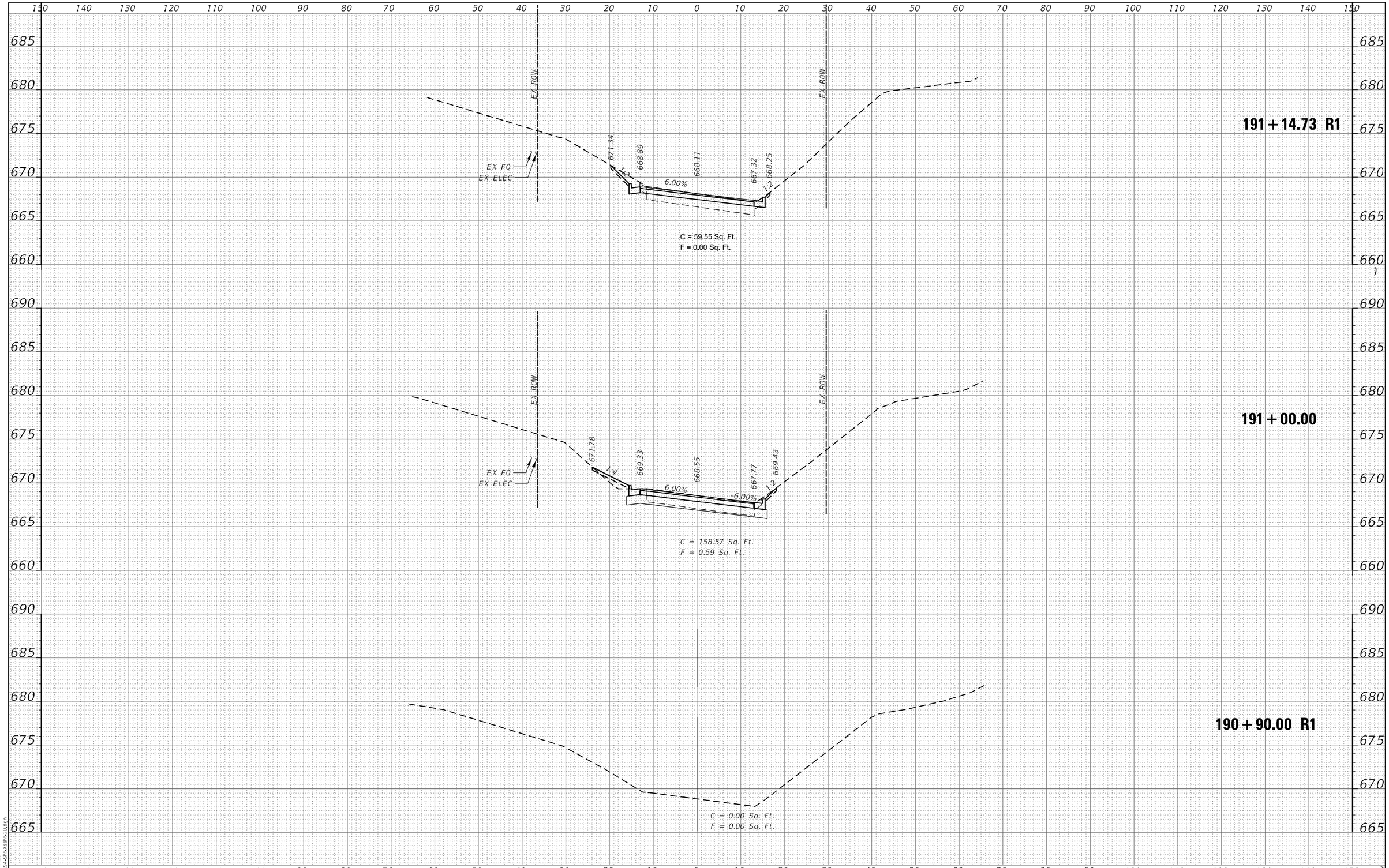
PROPOSED CROSS SECTIONS
IL RTE 171 (ARCHER AVE)

SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	125

CONTRACT NO. 60R94

ILLINOIS | FED. AID PROJECT



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AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 48
Downers Grove, IL 60515

USER NAME = Srahman	DESIGNED - JAR	REVISED -
	DRAWN - SR	REVISED -
PLOT SCALE = $SCALES	CHECKED - AS	REVISED -
PLOT DATE = 5/23/2025	DATE - 03/18/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

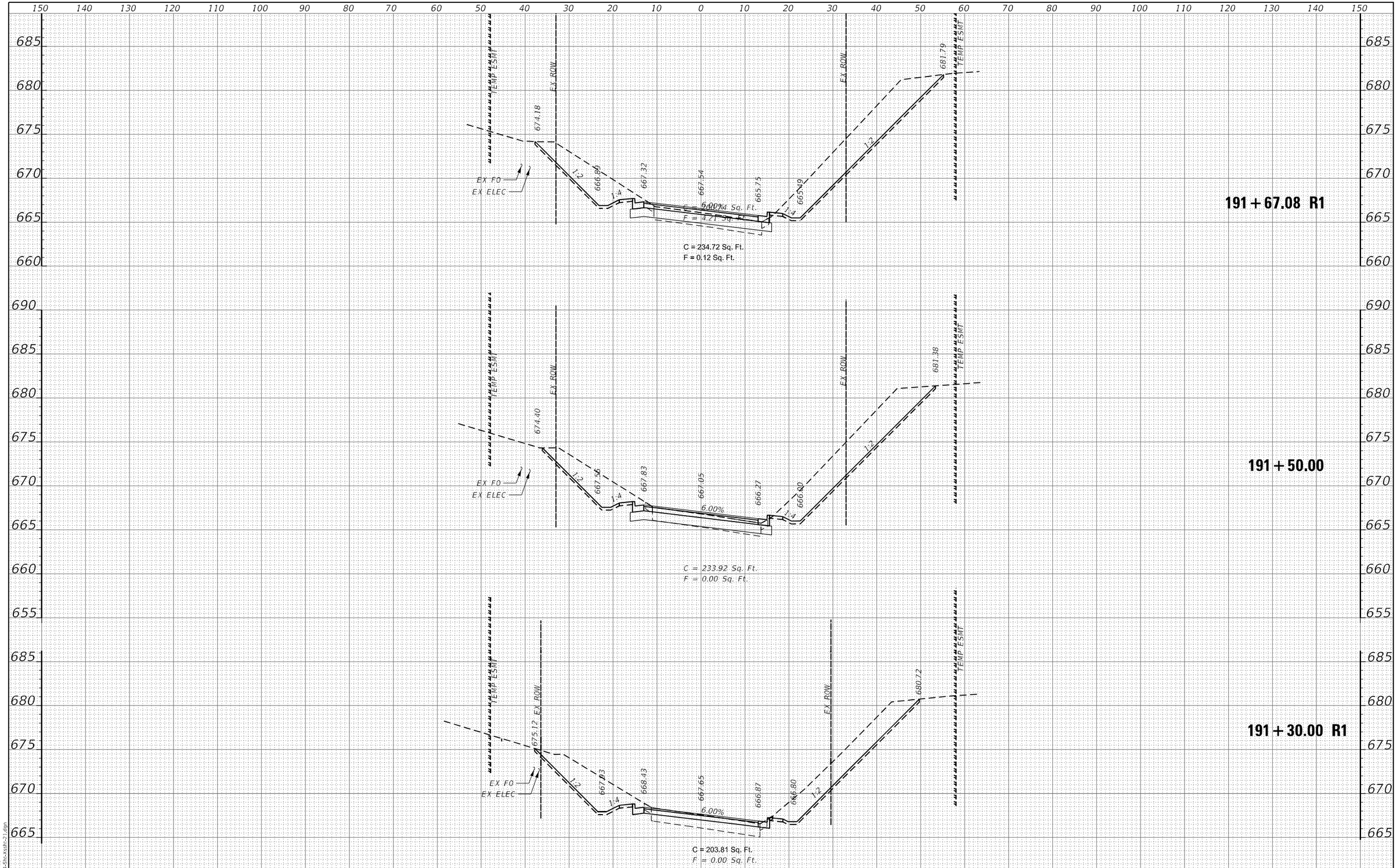
PROPOSED CROSS SECTIONS
W. 95TH STREET

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	126

CONTRACT NO. 60R94

ILLINOIS FED. AID PROJECT



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AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60515

USER NAME = Srahman	DESIGNED - JAR	REVISED -	
	DRAWN - SR	REVISED -	
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PLOT DATE = 5/23/2025	DATE - 03/18/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

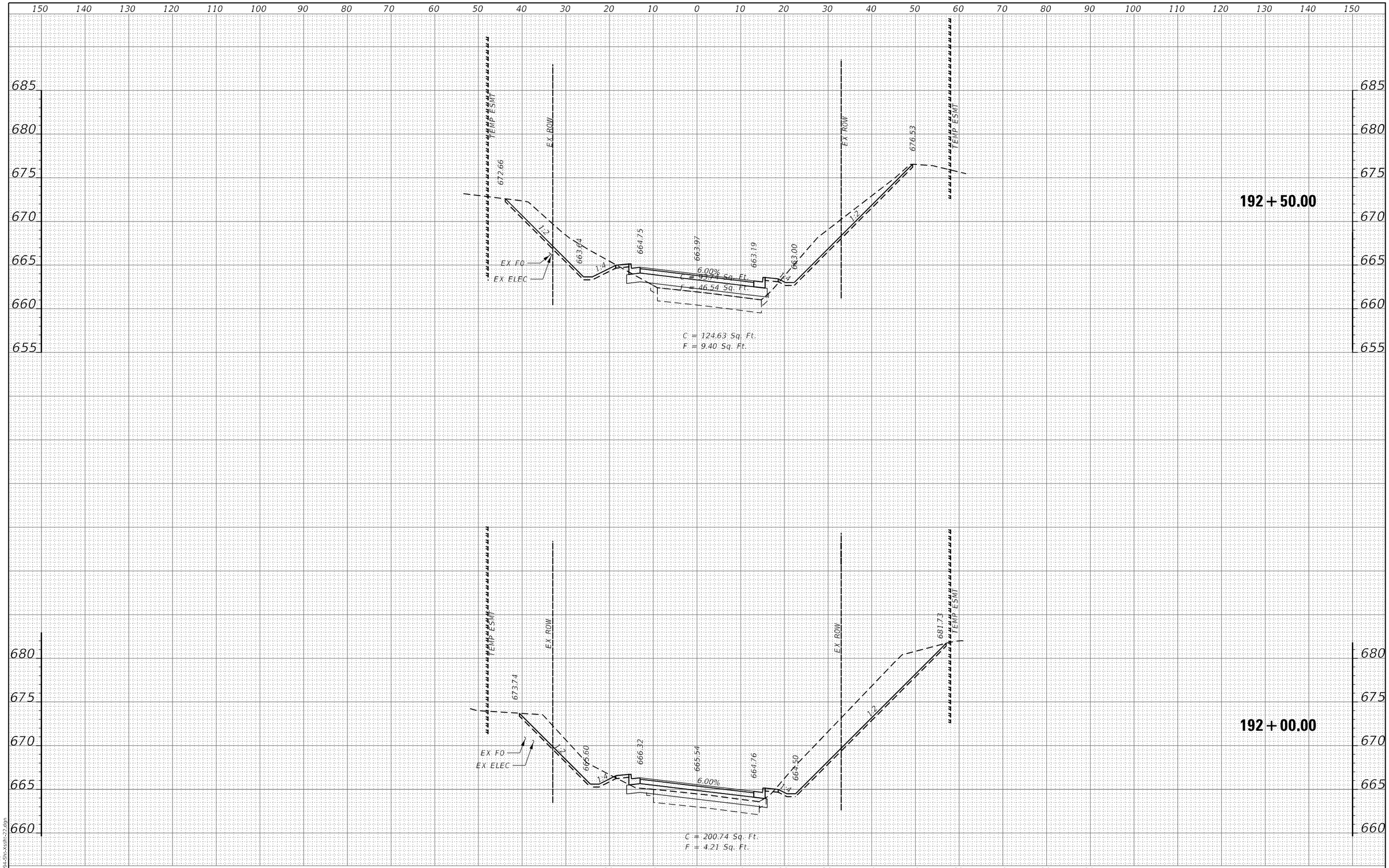
PROPOSED CROSS SECTIONS
W. 95TH STREET

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	127

CONTRACT NO. 60R94

ILLINOIS FED. AID PROJECT



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AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60515

USER NAME = Srahman	DESIGNED - JAR	REVISED -
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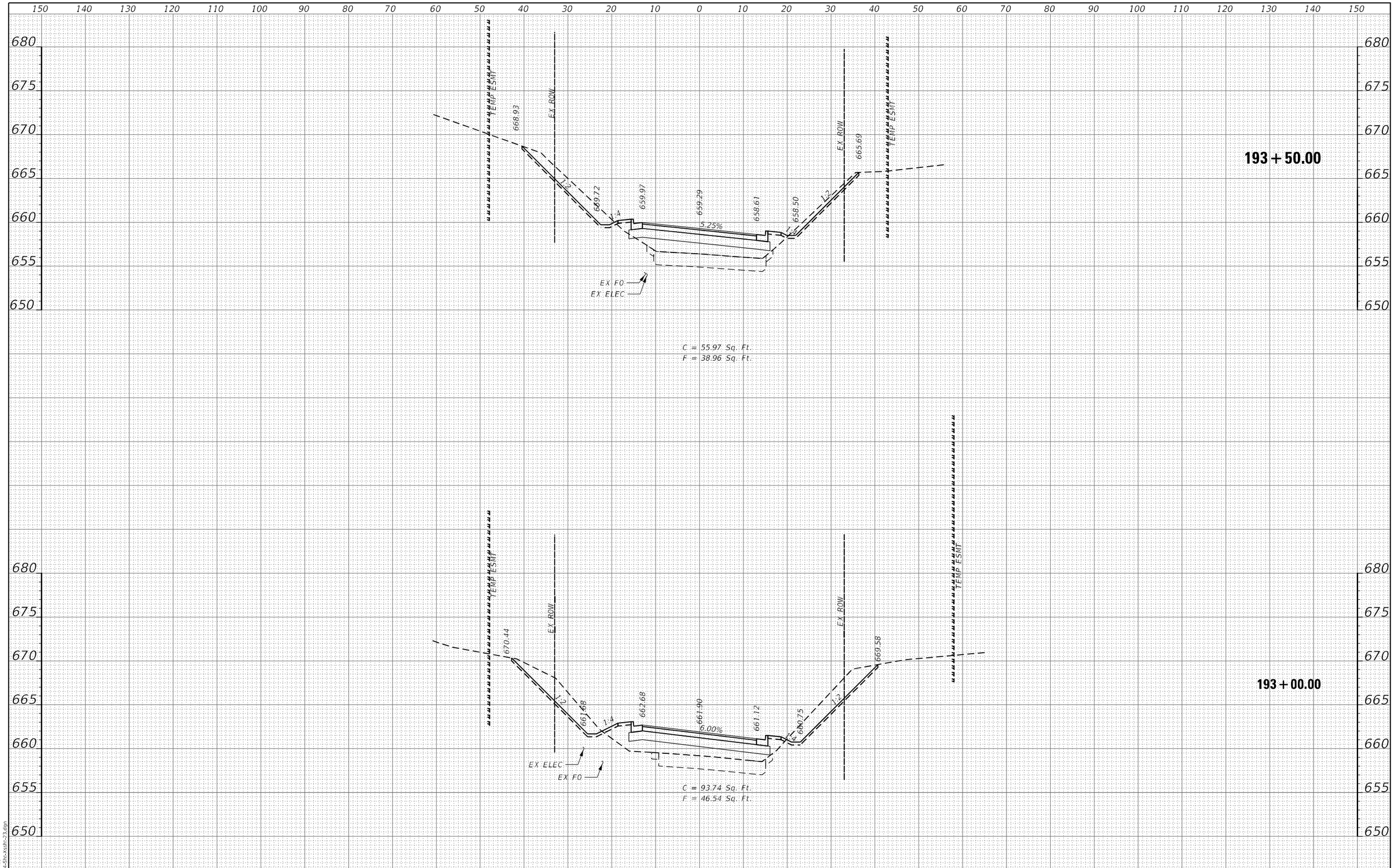
PLOT SCALE = $SCALES	CHECKED - AS	REVISED -
PLOT DATE = 5/23/2025	DATE - 03/18/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
W. 95TH STREET

SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	128
		CONTRACT NO. 60R94		
	ILLINOIS	FED. AID PROJECT		



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AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 48
Downers Grove, IL 60515

USER NAME = Srahman	DESIGNED - JAR	REVISED -
	DRAWN - SR	REVISED -
PLOT SCALE = $SCALE$	CHECKED - AS	REVISED -
PLOT DATE = 5/23/2025	DATE - 03/18/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

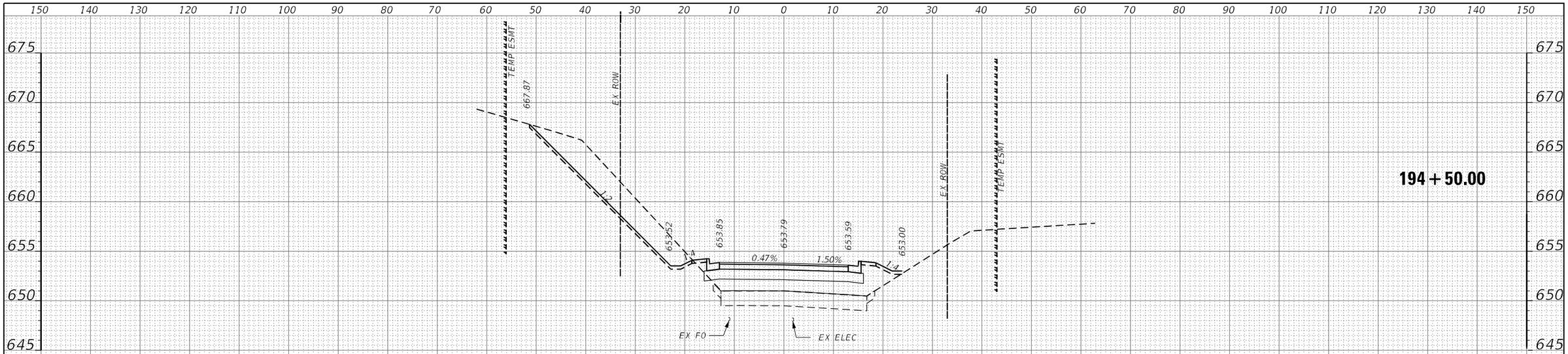
PROPOSED CROSS SECTIONS
W. 95TH STREET

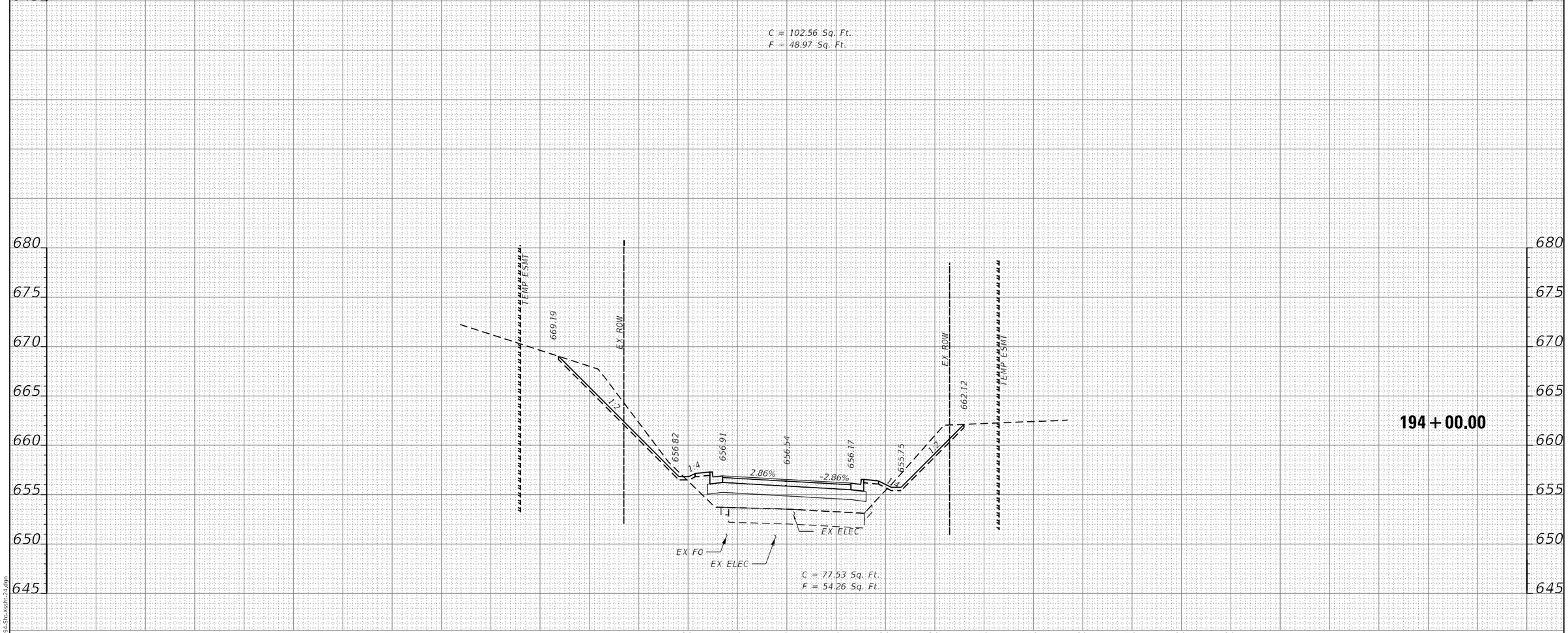
SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	129

CONTRACT NO. 60R94

ILLINOIS | FED. AID PROJECT





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AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 48
Downers Grove, IL 60515

USER NAME = Srahman	DESIGNED - JAR	REVISED -
	DRAWN - SR	REVISED -
PLOT SCALE = $SCALES	CHECKED - AS	REVISED -
PLOT DATE = 5/23/2025	DATE - 03/18/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

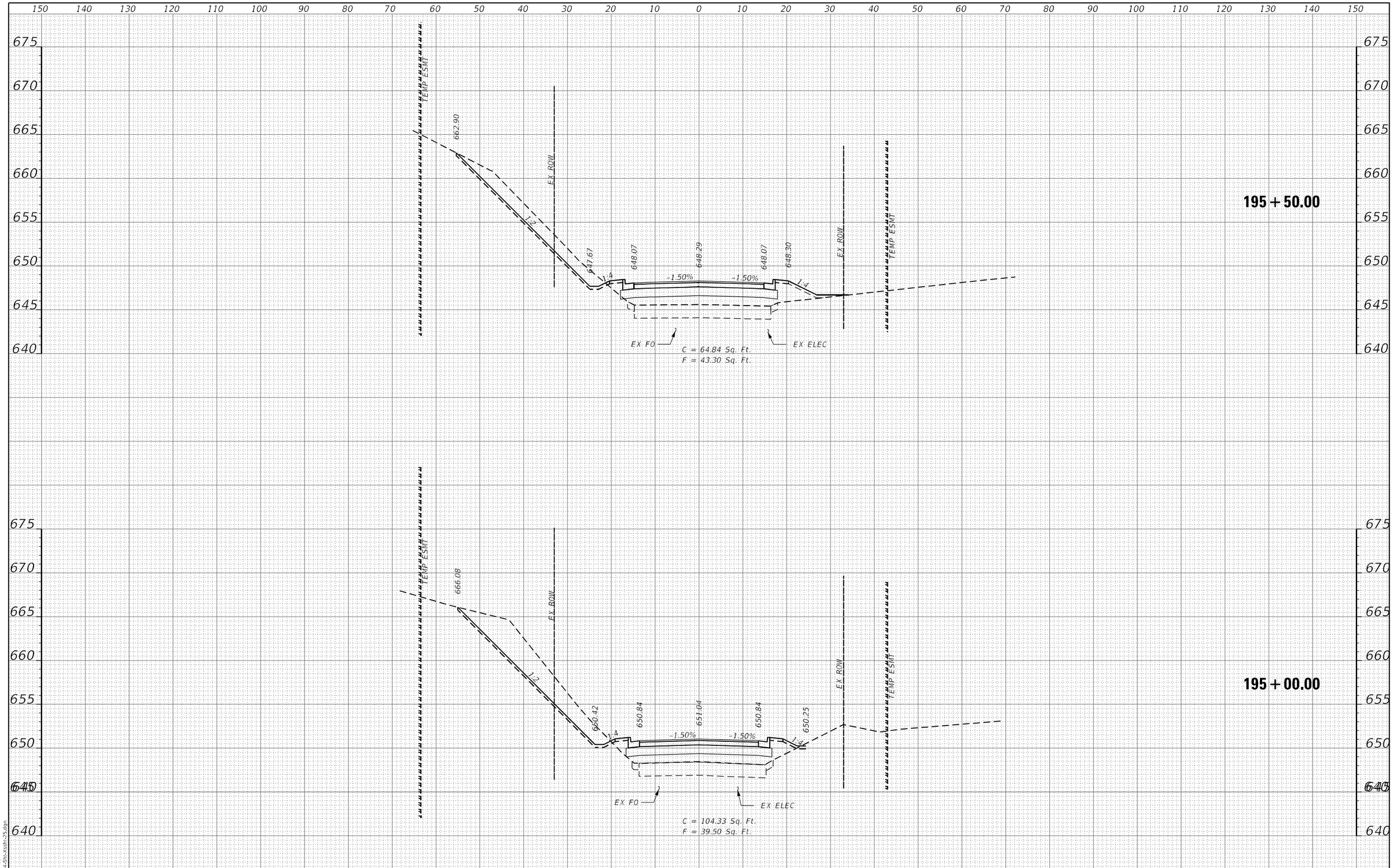
PROPOSED CROSS SECTIONS
W. 95TH STREET

SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	130

CONTRACT NO. 60R94

ILLINOIS | FED. AID PROJECT



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AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60515

USER NAME = Srahman	DESIGNED - JAR	REVISED -	
	DRAWN - SR	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - AS	REVISED -	
PLOT DATE = 5/23/2025	DATE - 03/18/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

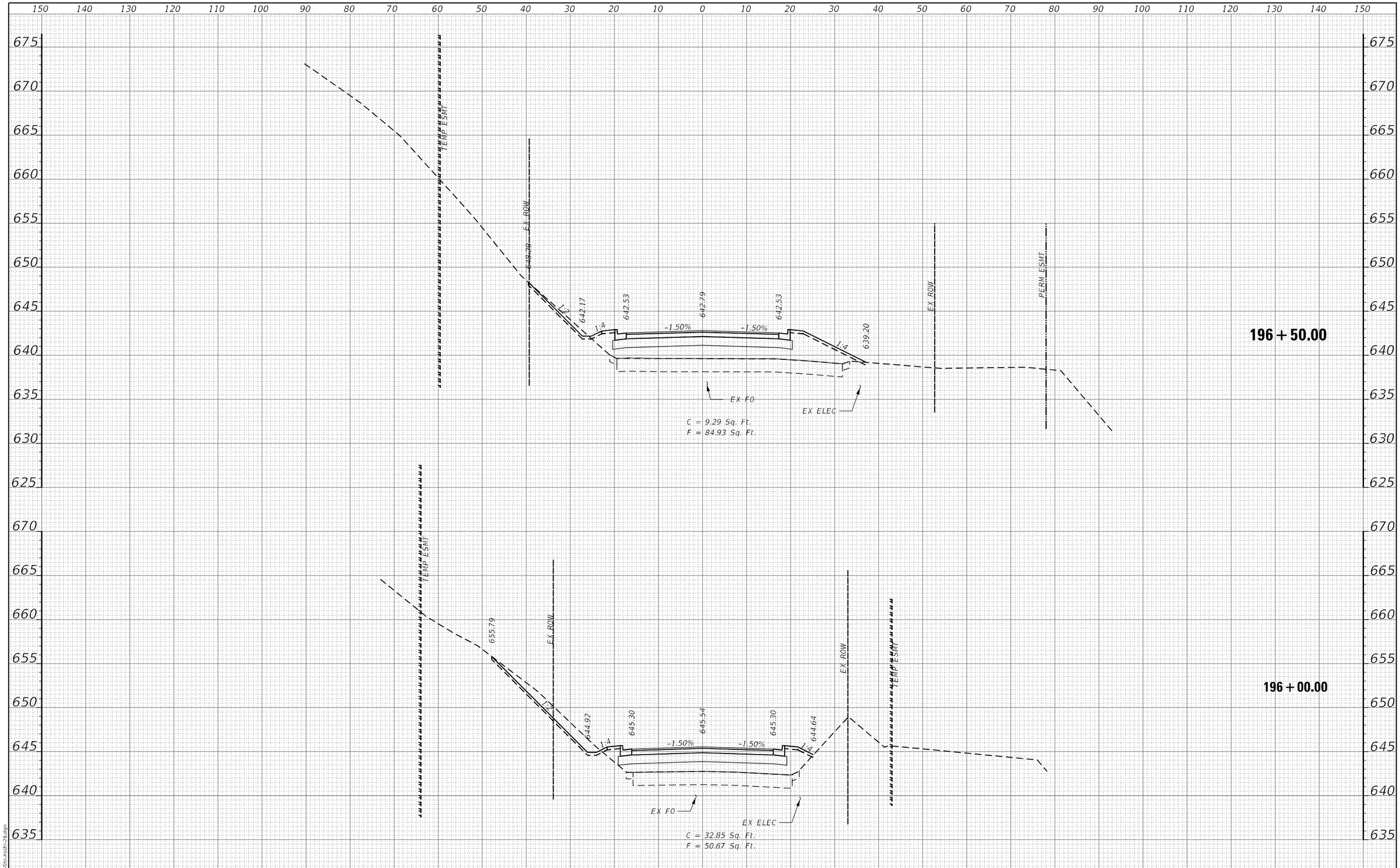
PROPOSED CROSS SECTIONS
W. 95TH STREET

SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	131

CONTRACT NO. 60R94

ILLINOIS FED. AID PROJECT



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AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60515

USER NAME = Srahman	DESIGNED - JAR	REVISED -
	DRAWN - SR	REVISED -
PLOT SCALE = $SCALE$	CHECKED - AS	REVISED -
PLOT DATE = 5/23/2025	DATE - 03/18/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

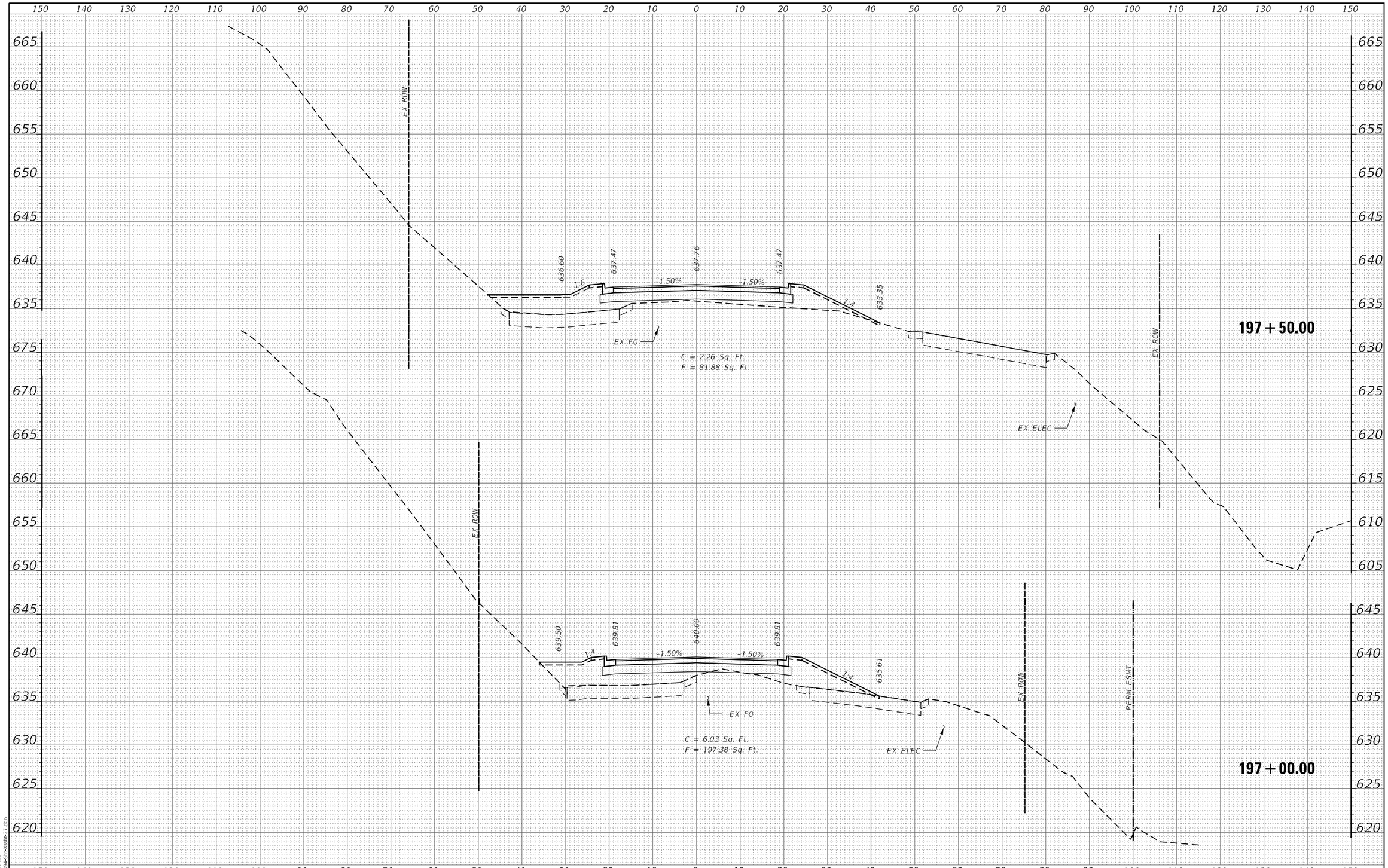
PROPOSED CROSS SECTIONS
W. 95TH STREET

SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	132

CONTRACT NO. 60R94

ILLINOIS FED. AID PROJECT



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AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60515

USER NAME = Srahman	DESIGNED - JAR	REVISED -
	DRAWN - SR	REVISED -
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PLOT DATE = 5/23/2025	DATE - 03/18/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

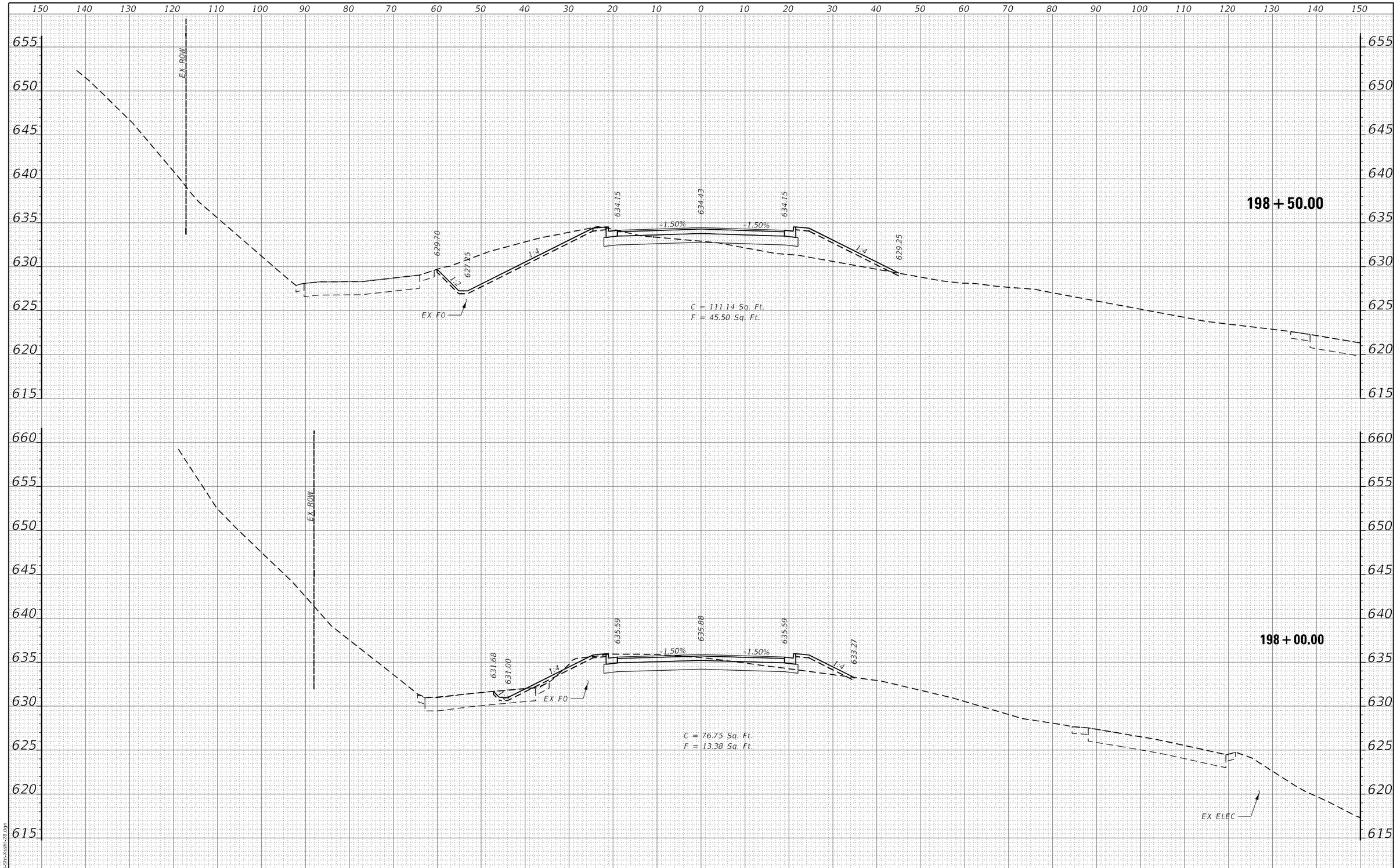
PROPOSED CROSS SECTIONS
W. 95TH STREET

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	133

CONTRACT NO. 60R94

ILLINOIS FED. AID PROJECT



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AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60515

USER NAME = Srahman	DESIGNED - JAR	REVISED -	
	DRAWN - SR	REVISED -	
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PLOT DATE = 5/23/2025	DATE - 03/18/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

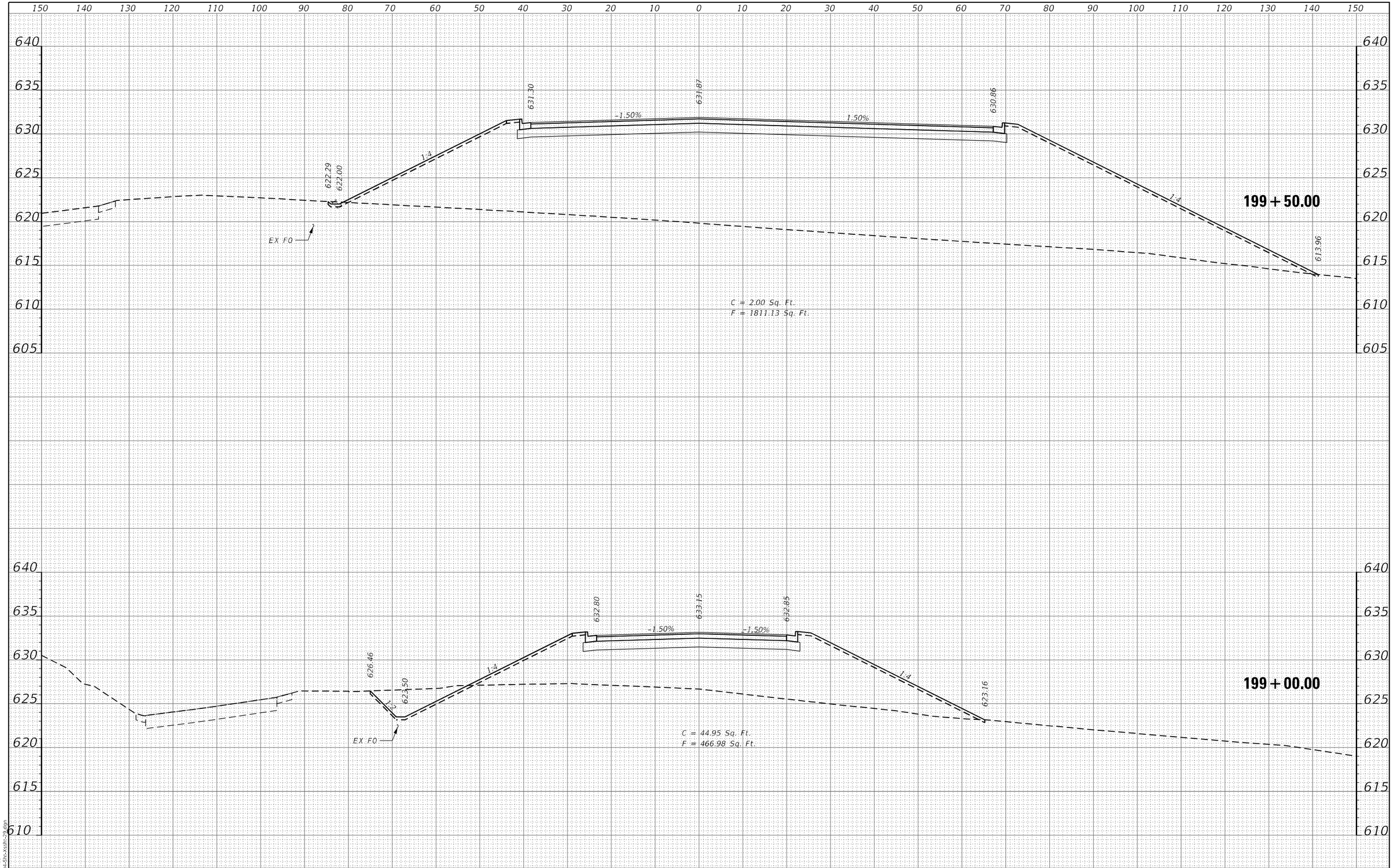
PROPOSED CROSS SECTIONS
W. 95TH STREET

SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	134

CONTRACT NO. 60R94

ILLINOIS | FED. AID PROJECT



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AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 48
Downers Grove, IL 60515

USER NAME = Srahman	DESIGNED - JAR	REVISED -
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PLOT SCALE = $SCALES	CHECKED - AS	REVISED -
PLOT DATE = 5/23/2025	DATE - 03/18/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
W. 95TH STREET

SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3565	U-1-N	COOK	135	135

CONTRACT NO. 60R94

ILLINOIS | FED. AID PROJECT