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	DATE = 01/21/2026	REVISED -

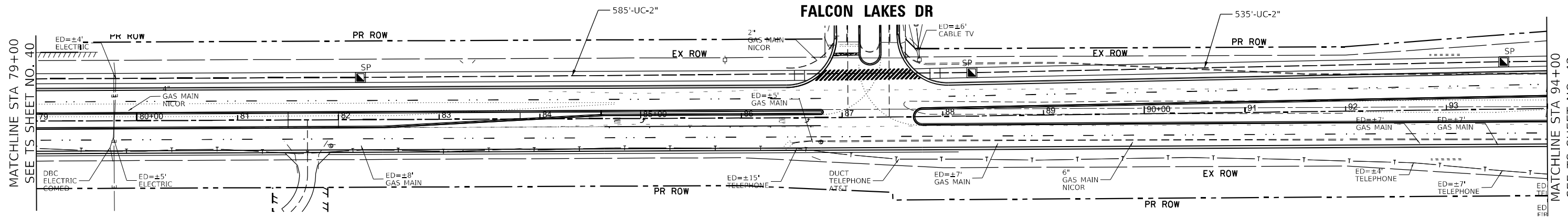
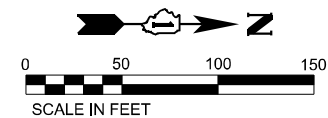
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT PLAN (SHEET 3 OF 7)
BARRINGTON RD AND IL RTE 62 (ALGONQUIN RD)

SCALE: 1"=50' SHEET 3 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	301
CONTRACT NO. 62K33				
ILLINOIS FED. AID PROJECT				

IDOT CENTRACS
FORMER ECON 73



TS SHT NO. 41

MODEL: D:\del\11... FILE NAME: ... PROJECT: ...



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PLOT SCALE = 99,996" / 1 in.	DRAWN -	REVISED -
PLOT DATE = 1/20/2026	CHECKED -	REVISED -
	DATE = 01/21/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT PLAN (SHEET 4 OF 7)
BARRINGTON RD AND IL RTE 62 (ALGONQUIN RD)

SCALE: 1"=50' SHEET 4 OF 7 SHEETS STA. TO STA.

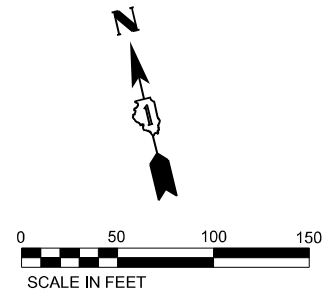
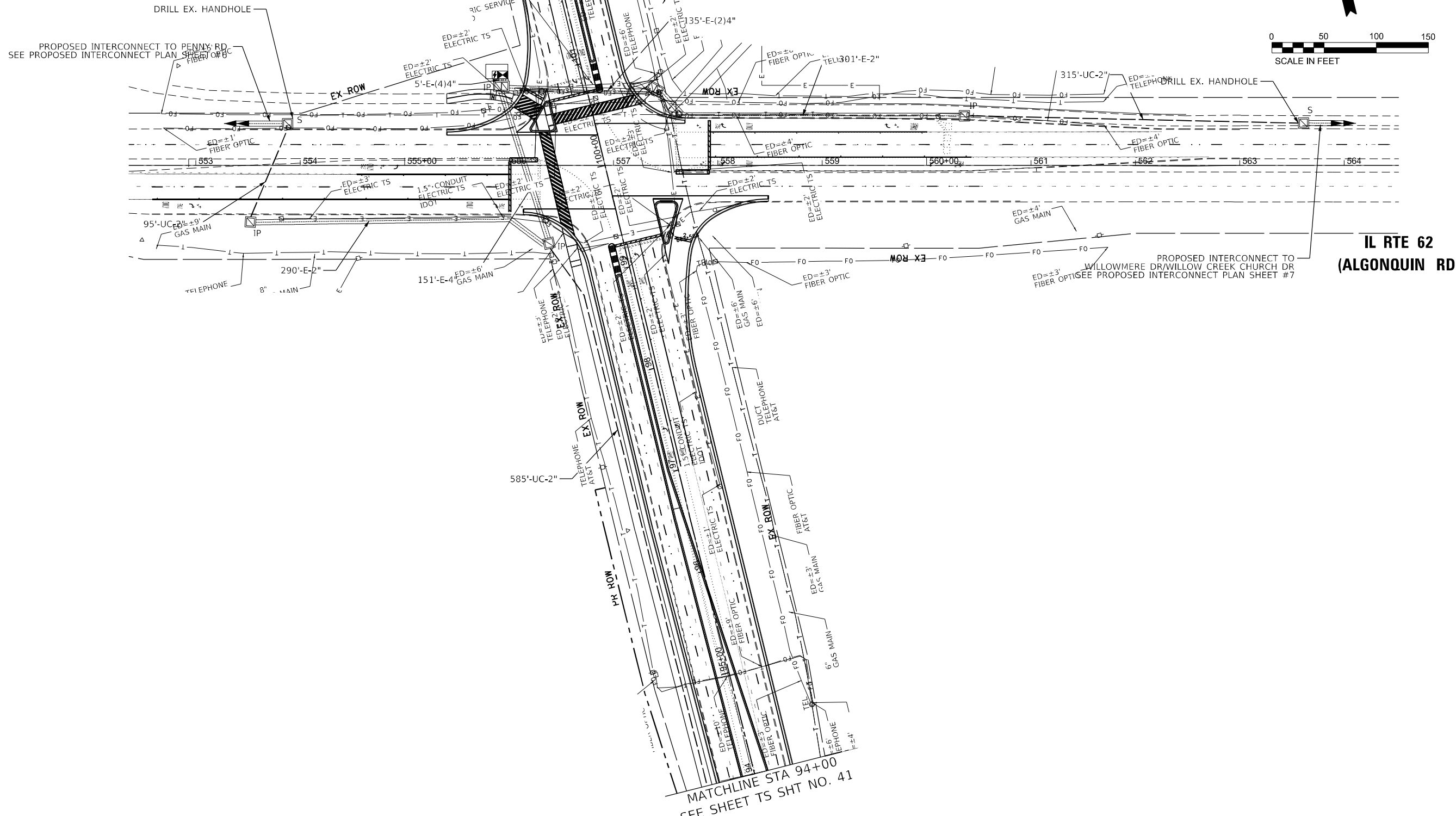
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	302
CONTRACT NO. 62K33				
ILLINOIS FED. AID PROJECT				

**IDOT CENTRACS
FORMER ECON 73**

TS SHT NO. 42

MODEL: D:\del\11... FILE NAME: ...

BARRINGTON ROAD



IL RTE 62
(ALGONQUIN RD)

MATCHLINE STA 94+00
SEE SHEET TS SHT NO. 41

IDOT CENTRACS
FORMER ECON 95



USER NAME = ggedmer	DESIGNED -	REVISED -
PLOT SCALE = 99,996" = 1"	DRAWN -	REVISED -
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	DATE = 01/21/2026	REVISED -

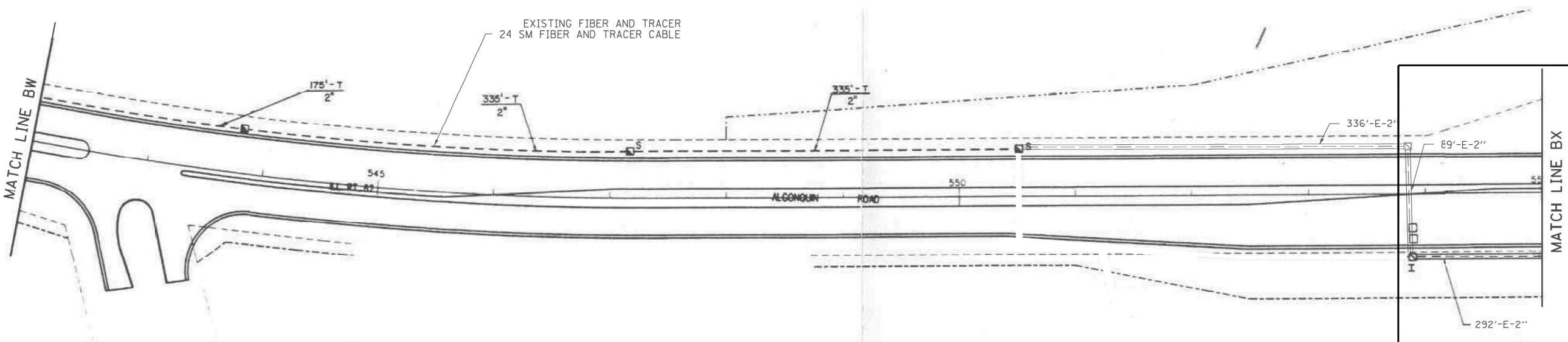
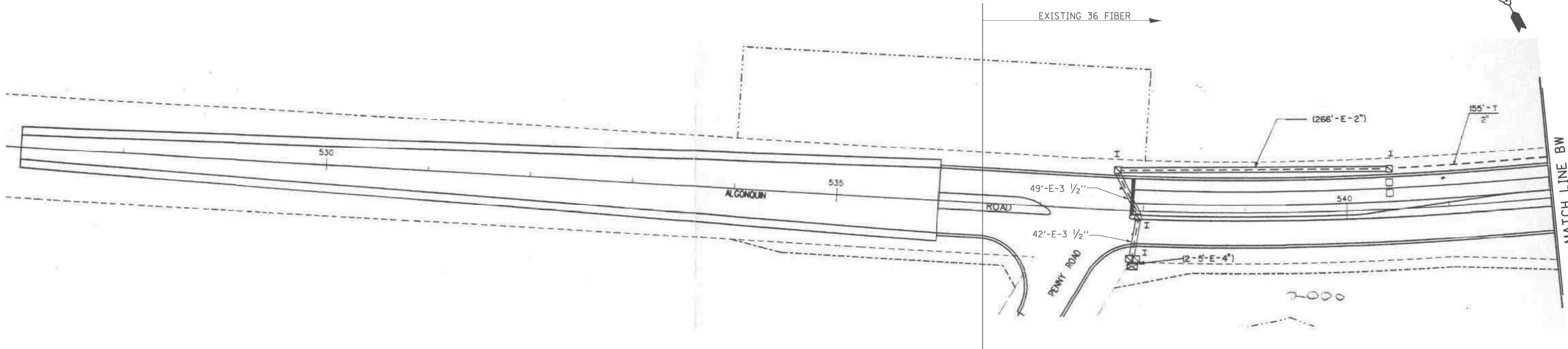
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT PLAN (SHEET 5 OF 7)
BARRINGTON RD AND IL RTE 62 (ALGONQUIN RD)

SCALE: 1"=50' SHEET 5 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	303
CONTRACT NO. 62K33				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY



SEE BARRINGTON RD AND IL RTE 62 (ALGONQUIN RD) PROPOSED INTERCONNECT PLAN (PROPOSED INTERCONNECT SHEET #5)

TS SHT NO. 43

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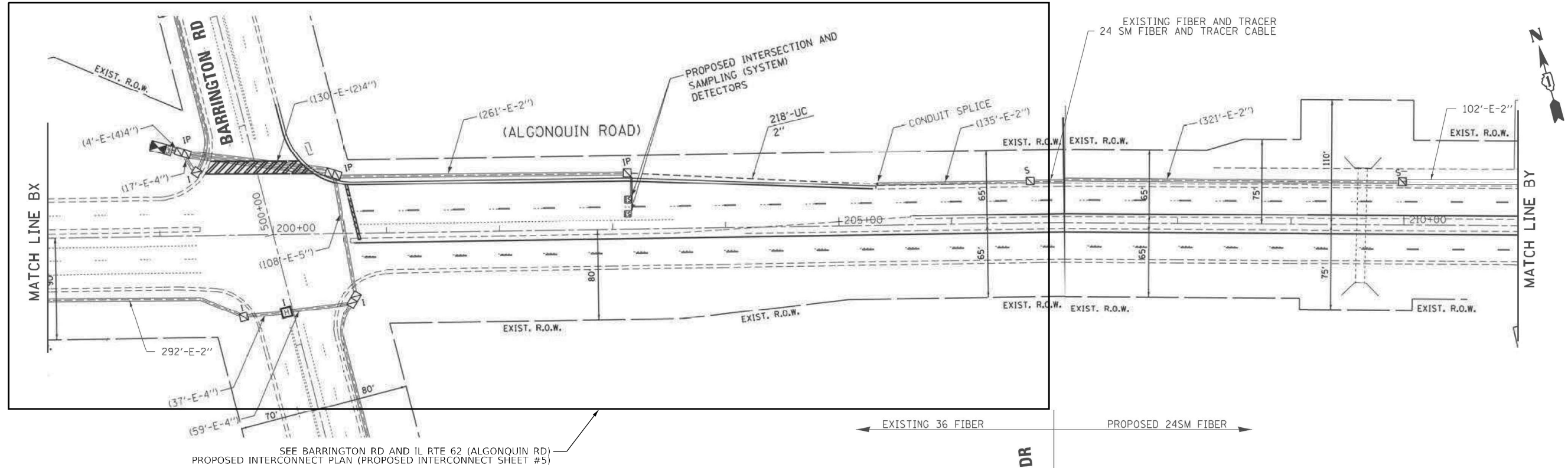
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT PLAN (SHEET 6 OF 7)
BARRINGTON RD AND IL RTE 62 (ALGONQUIN RD)

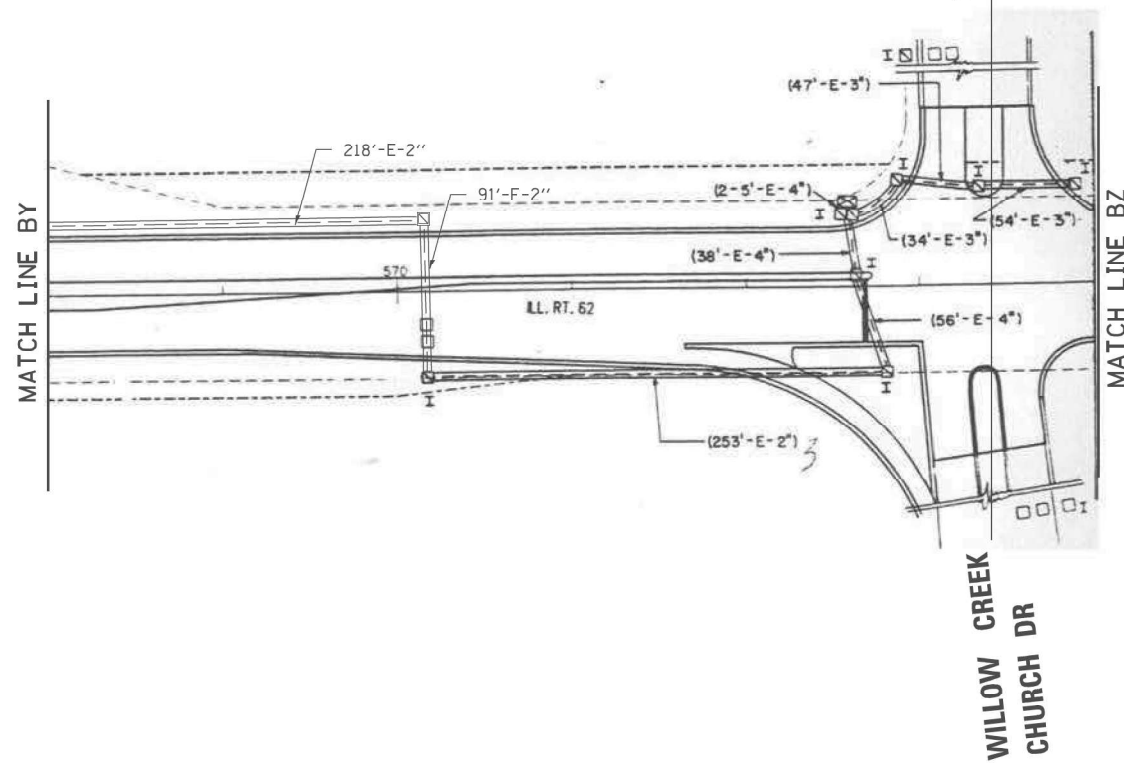
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	304
CONTRACT NO. 62K33				
ILLINOIS FED. AID PROJECT				

IDOT CENTRACS
FORMER ECON 95



SEE BARRINGTON RD AND IL RTE 62 (ALGONQUIN RD) PROPOSED INTERCONNECT PLAN (PROPOSED INTERCONNECT SHEET #5)



FOR INFORMATION ONLY



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PLOT SCALE = 99,996" / 1 in.	DRAWN -	REVISED -
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	DATE = 01/21/2026	REVISED -

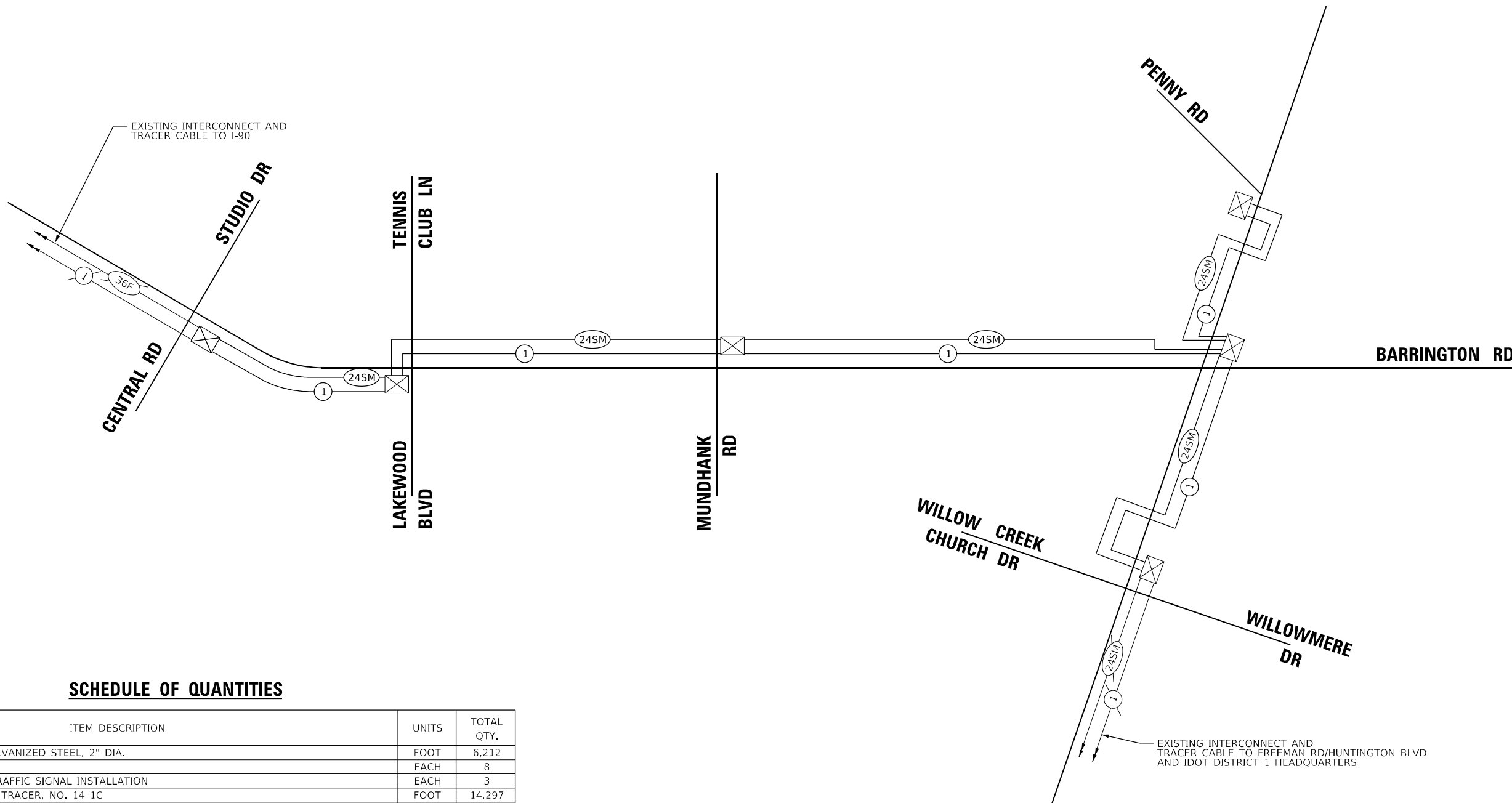
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT PLAN (SHEET 7 OF 7)
BARRINGTON RD AND IL RTE 62 (ALGONQUIN RD)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	305
CONTRACT NO. 62K33				
ILLINOIS FED. AID PROJECT				

IDOT CENTRACS
FORMER ECON 95



SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	6,212
HANDHOLE	EACH	8
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	3
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	14,297
DRILL EXISTING HANDHOLE	EACH	10
MODIFY EXISTING CONTROLLER	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2,812
ROD AND CLEAN EXISTING CONDUIT	FOOT	2,556
FIBER OPTIC CABLE IN CONDUIT, 24 FIBERS, SINGLE MODE	FOOT	14,297

TS SHT NO. 45

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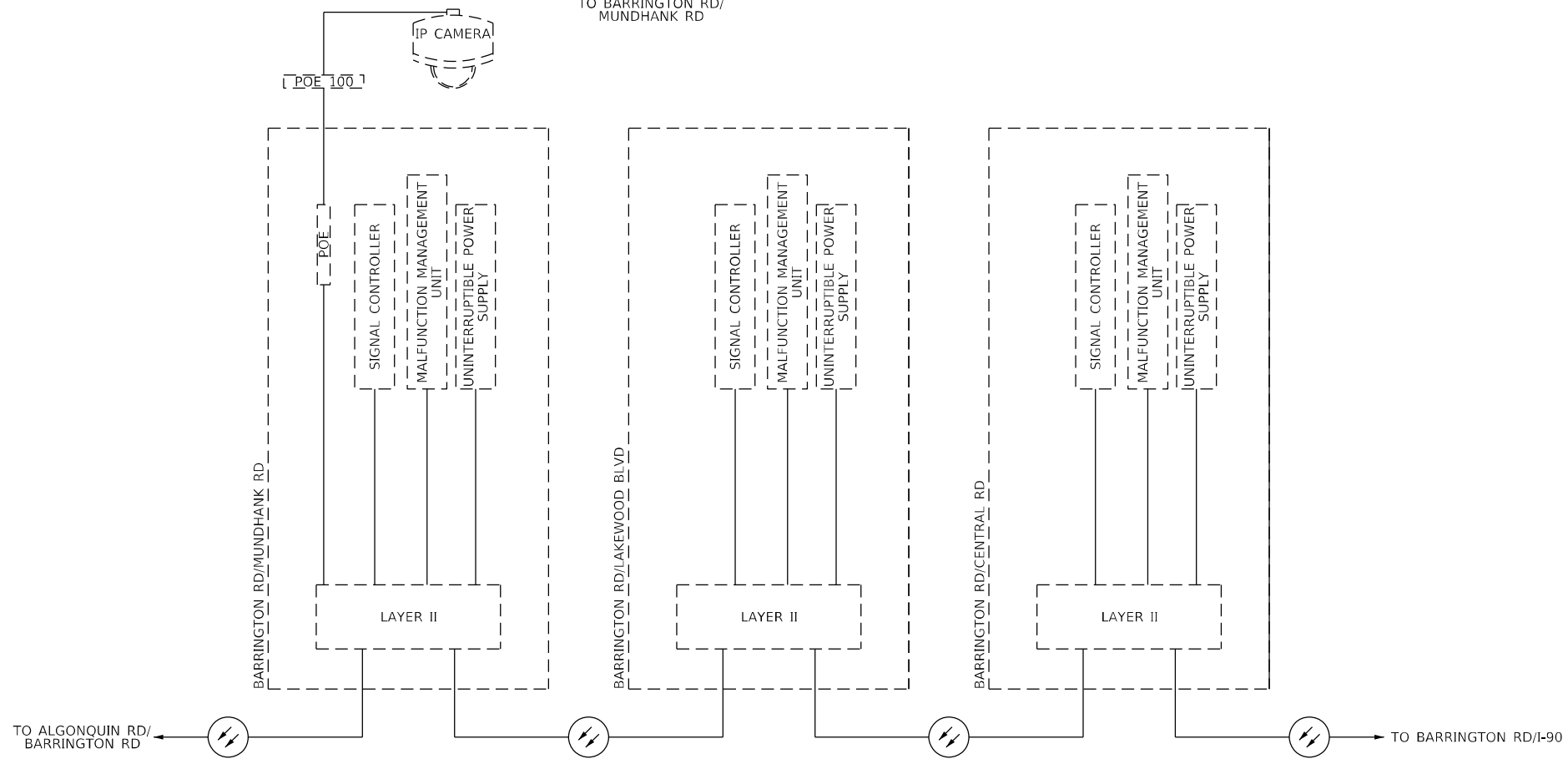
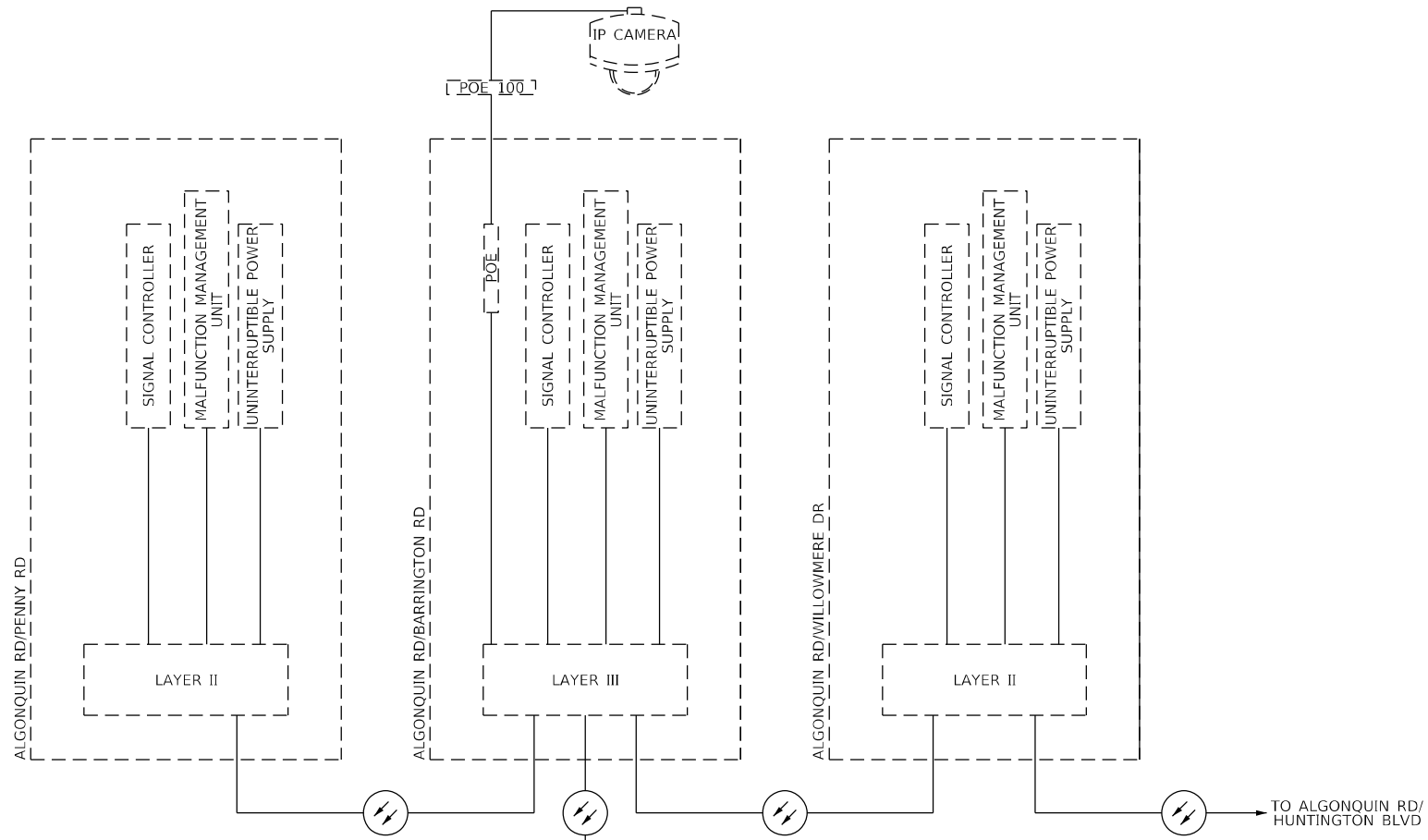
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	DATE - 01/21/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT SCHEMATIC
BARRINGTON RD - CENTRAL RD TO IL RTE 62 (ALGONQUIN RD)

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 362	SECTION 2019-161-W	COUNTY COOK	TOTAL SHEETS 666	SHEET NO. 306
CONTRACT NO. 62K33				
ILLINOIS FED. AID PROJECT				



USER NAME = ggedemer	DESIGNED -	REVISED -
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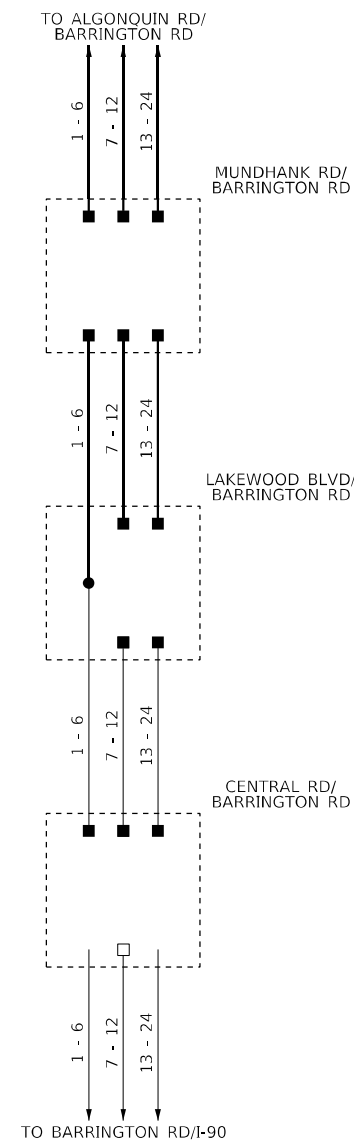
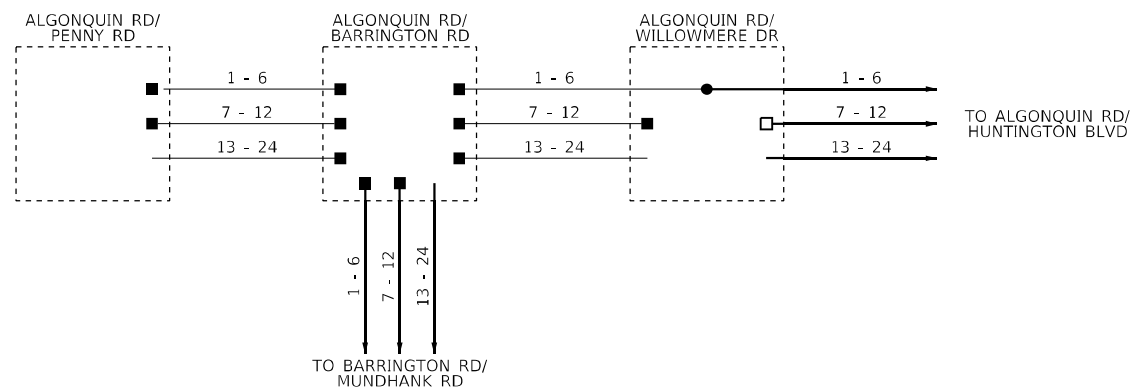
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABINET DETAIL SHEET
BARRINGTON RD: CENTRAL RD TO IL RTE 62 (ALGONQUIN RD)

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	307
CONTRACT NO. 62K33				
ILLINOIS FED. AID PROJECT				

MODEL: D:\ahat
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- □ — EXISTING CONNECTOR / EXISTING FIBER
- ■ — NEW CONNECTOR / EXISTING FIBER
- — — EXISTING FUSION SPLICE / EXISTING FIBER
- ● — NEW FUSION SPLICE / EXISTING FIBER
- ■ — NEW CONNECTOR / NEW FIBER
- ● — NEW FUSION SPLICE / NEW FIBER



USER NAME = ggedemer	DESIGNED -	REVISED -
PLOT SCALE = 99.996" / in.	DRAWN -	REVISED -
PLOT DATE = 1/20/2026	CHECKED -	REVISED -
	DATE - 01/21/2026	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

FIBER SPLICING DIAGRAM
 IL RTE 62 (ALGONQUIN RD); PENNY RD TO WILLOWMERE DR

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 362	SECTION 2019-161-W	COUNTY COOK	TOTAL SHEETS 666	SHEET NO. 308
CONTRACT NO. 62K33				
ILLINOIS FED. AID PROJECT				

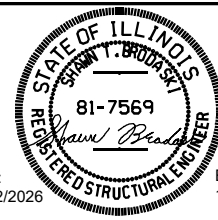
Bench Mark: Mag Nail in S. Edge of Pavement at Covered Bridge Road & Barrington Road. STA 83+42.52, 10' LT. Elev. 841.48
 Mag Nail near nose at entrance to Falcon Lakes Subdivision. STA 75+03.15, 11' LT. Elev. 866.79

Existing Structure:

Structure No. 016-1294 built under F.A.P. Route 362. The existing Structure is a 7'w x 5'h single cell box culvert and 86.8' long. Existing Structure skewed 1.6° North East of alignment. Traffic will be maintained utilizing stage construction.

Salvage: None

Precast alternative is not allowed.

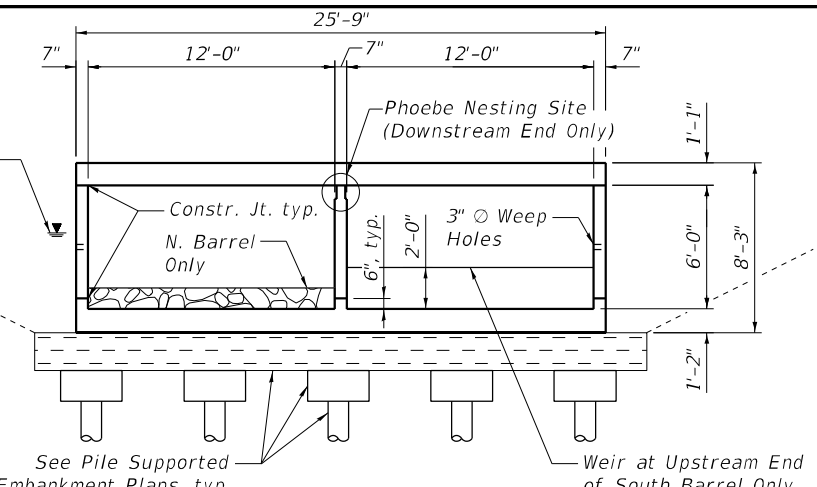
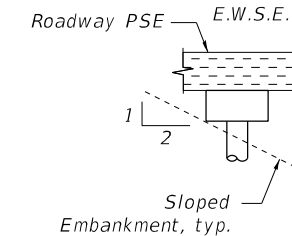


APPROVED

For Structural Adequacy Only

Justin M. M...
 Engineer of Bridges & Structures

Date: 02/02/2026 Exp: 11/30/2026

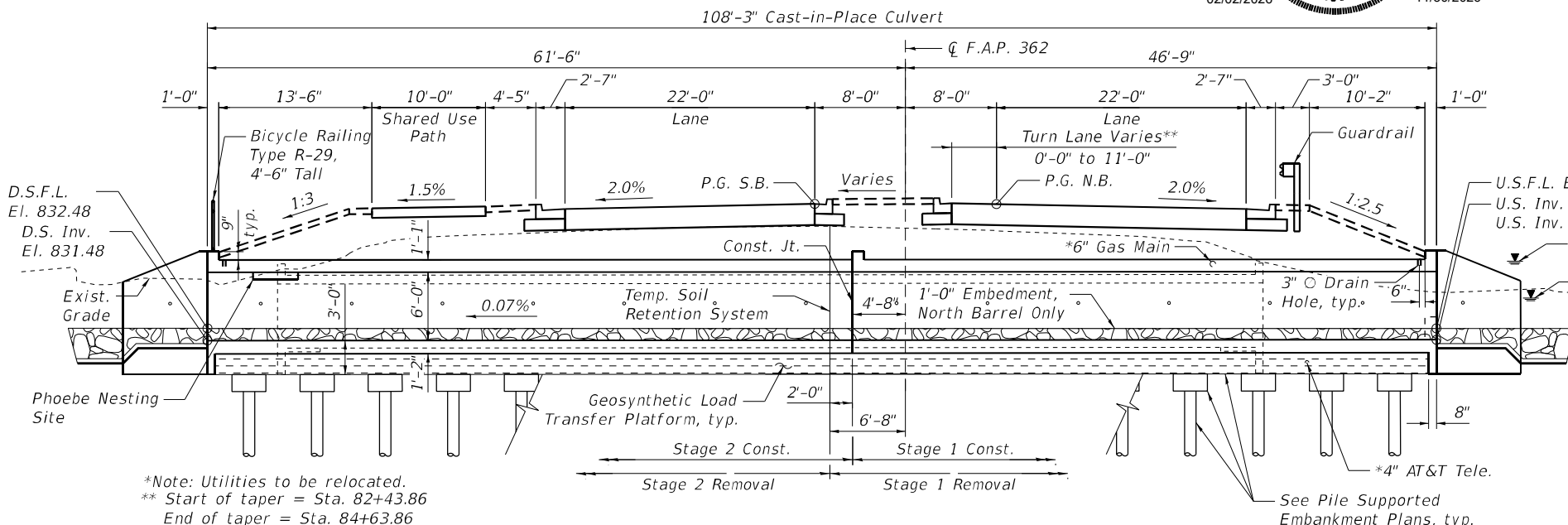


LEGEND

- G ———— Exist. Underground Gas
- A ———— Exist. Aerial Power Lines
- T ———— Exist. Underground Tele.
- S ———— Prop. Storm Sewer
- U ———— Prop. Underdrain
- W ———— Temp. Soil Retention System (TSRS)
- C ———— Cofferdam (Type 2) (In-Stream/Wetland Work)
- B ———— Soil Boring

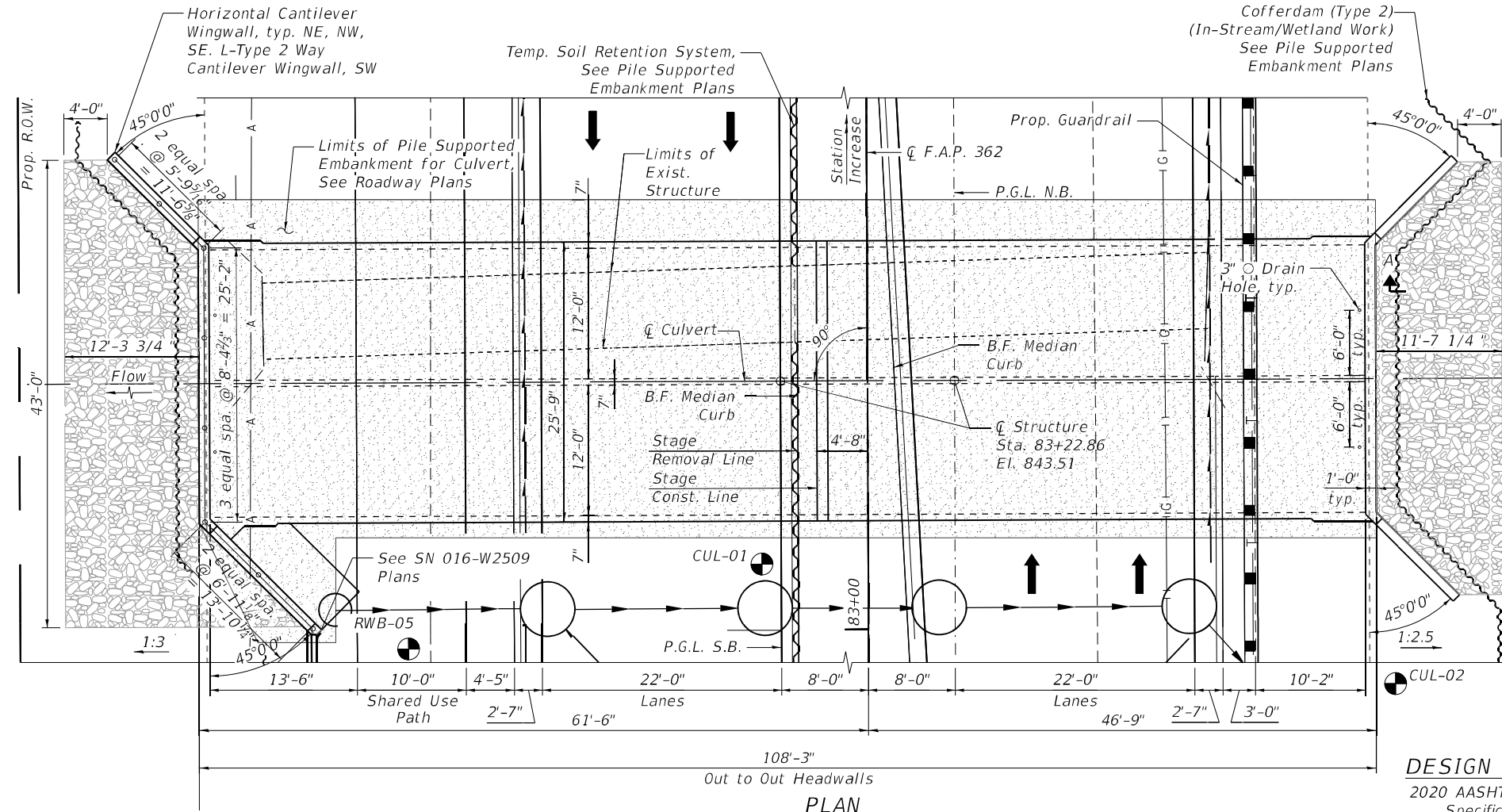
NOTES

- Offsets are measured from proposed centerline of F.A.P. 362.
- Culvert is built in conjunction with new MSE Wall S.N. 016-W2509.
- Contractor shall coordinate culvert construction with MSE retaining wall construction and installation of Pile Supported Embankment (PSE) system. Installation procedures may be affected by existing conditions. It is the Contractor's responsibility to determine the most cost-effective method of construction and include all items necessary for the proper and safe execution of the work. General suggested construction sequence is as follows:
 - Install TSRS longitudinally, along construction stage line as shown on PSE plans.
 - Excavate to depth required for PSE installation and remove portion of existing culvert.
 - Install PSE below culvert as shown on PSE plans, and construct first stage of culvert.
 - Install remainder of PSE for roadway.
 - Install second stage of PSE and culvert in a similar manner.
 - Construct MSE wall and join at SW wingwall of culvert.
- See Sheet S-2 for Section A-A, Waterway Information Table, and Profile Grade of F.A.P. 362.
- See Sheets S-15 & S-16 for soil boring logs.
- See Pile Supported Embankment Plans for details and pay items related to Pile Supported Embankment (PSE), Temporary Soil Retention System (TSRS), and Cofferdam (Type 2) (In-Stream/Wetland Work).

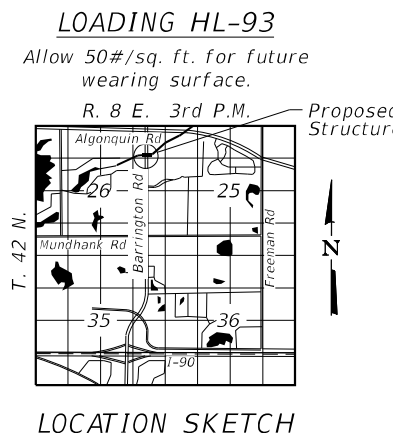


*Note: Utilities to be relocated.
 ** Start of taper = Sta. 82+43.86
 End of taper = Sta. 84+63.86

LONGITUDINAL SECTION
 (Looking North)



DESIGN SPECIFICATIONS
 2020 AASHTO LRFD Bridge Design Specifications, 9th Edition



DESIGN STRESSES
 (FIELD UNITS)
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

GENERAL PLAN & ELEVATION
BARRINGTON ROAD OVER
POPLAR CREEK
F.A.P. RTE. 362
SECTION 2019-161-W
COOK COUNTY
STATION 83+22.86
STRUCTURE NO. 016-2313



USER NAME = MazenSyed	DESIGNED - STB	REVISED -
DRAWN - JPK	REVISIION -	
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PLOT DATE = 2/3/2026	DATE - 02/02/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
STRUCTURE NO. 016-2313
 SCALE: 1" = 7' SHEET S-1 OF 5-16 SHEETS STA. TO STA.

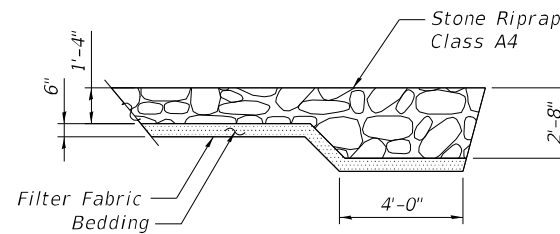
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	309
CONTRACT NO. 62K33			ILLINOIS / FED. AID PROJECT	

GENERAL NOTES

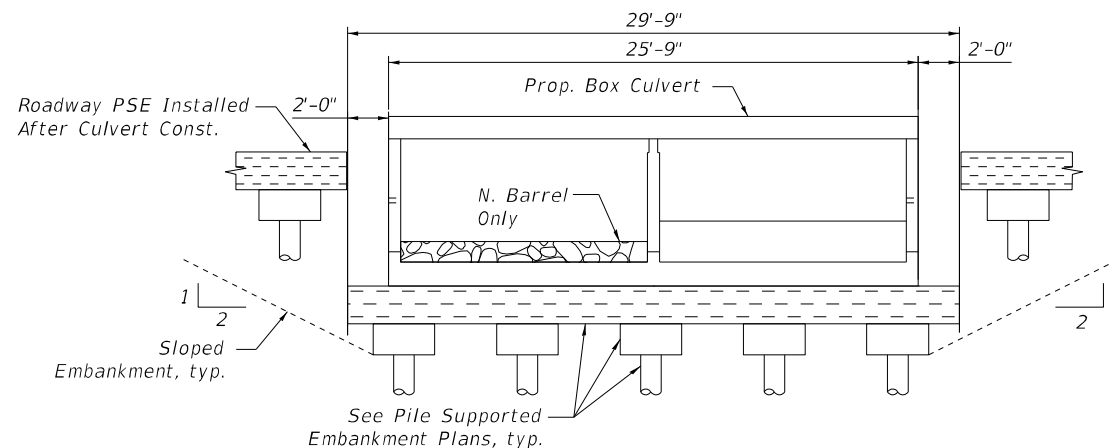
1. Reinforcement bars designated "(E)" shall be epoxy coated.
2. Contractor shall not scale dimensions from the contract plans for construction purposes. Scales are for information only.
3. No construction joints except those shown on the plans shall be allowed unless approved by the Engineer.
4. It shall be the Contractor's responsibility to verify the locations of all utilities prior to starting construction. Contact J.U.L.I.E., 800-892-0123.
5. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
6. The Contractor shall obtain a construction permit from the Illinois Department of Natural Resources (IDNR), Office of Water Resources for any temporary construction activity placed in the water except Cofferdams. This shall include the placement of run-arounds, causeways, etc. Any permit application by the Contractor shall refer to the IDNR 3704 Floodway Construction permit number allowing permanent construction as shown on the contract plans.
7. Precast Alternative is not allowed.
8. Temporary Soil Retention System details and quantities are covered under the pile supported embankment plans.
9. Cofferddam details and quantities are covered under the pile supported embankment plans.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Stone Rip Rap Class A4	SQ YD	105
Filter Fabric	SQ YD	105
Removal of Existing Structures	EACH	1
Structure Excavation	CU YD	410
Treated Timber	F.B.M.	35
Reinforcement Bars, Epoxy Coated	POUND	79,100
Bar Splicers	EACH	125
Bicycle Railing	FOOT	52
Name Plates	EACH	1
Concrete Box Culverts	CU YD	299



SECTION A-A



LIMITS OF EXCAVATION
(Looking East)

STATION 83+22.86
BUILT 20__ BY
STATE OF ILLINOIS
F.A.P. RTE. 362
SECT. (2019-161-W)
LOADING HL-93
STR. NO. 016-2313

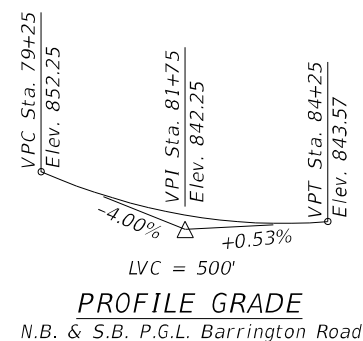
NAME PLATE
(See std. 515001)

INDEX OF SHEETS

S1	General Plan and Elevation
S2	General Data
S3	Stage Construction 1 of 2
S4	Stage Construction 2 of 2
S5	Temporary Concrete Barrier
S6	Culvert Plan Bottom Slab Details
S7	Culvert Plan Top Slab Details
S8	Culvert Longitudinal Section
S9	West Wingwall Details
S10	East Wingwall Details
S11	Culvert Details
S12	Railing Details 1
S13	Railing Details 2
S14	Bar Splicer Assembly and Mechanical Splicer Details
S15	Soil Boring Logs Sheet 1 of 2
S16	Soil Boring Logs Sheet 2 of 2

LIST OF ABBREVIATIONS

B	Baseline	B.F.	Back Face
CL	Centerline	cl.	Clearance
const.	Construction	Ø	Diameter
conc.	Concrete	El.	Elevation
cts.	Centers	long.	Longitudinal
E.F.	Each Face	min.	Minimum
exist.	Existing	O.F.	Outside Face
F.F.	Front Face	prop.	Proposed
jt.	Joint	R.O.W.	Right of Way
max.	Maximum	rte.	Route
no.	Number	RET.	Retaining Wall
PG	Profile Grade	spa.	Spaces
PSE	Pile Supported Embankment	sta.	Station
Req'd.	Required	struct.	Structure
sect.	Section	P	Plate
spec.	Specification	o.c.	On Center
std.	Standard	U.N.O.	Unless Noted Otherwise
typ.	Typical	N.B.	Northbound
Temp.	Temporary	S.B.	Southbound
D.S.	Downstream	P.G.L.	Profile Grade Line

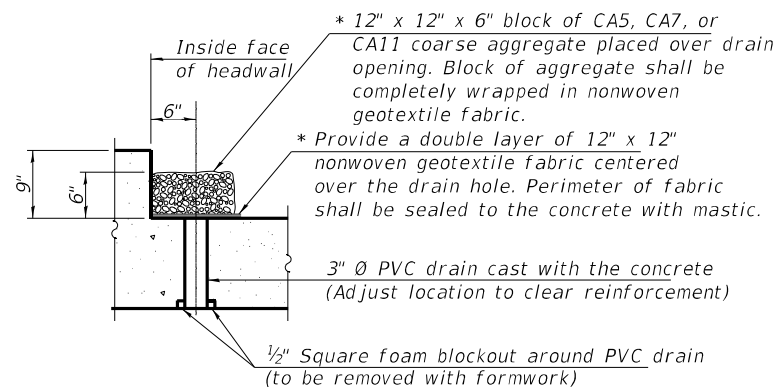


WATERWAY INFORMATION

Flood	Freq. Yr.	Q C.F.S.	Opening Sq.Ft.		Nat. H.W.E.		Head - Ft.		Headwater El.	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
Ten-Year	10	165	35	108	837.57	1.24	0.19	838.81	837.76	
Design	50	260	35	108	838.45	2.08	0.37	840.53	838.82	
Base	100	307	35	108	838.92	1.77	0.46	840.69	839.38	
Scour Design Check	-	-	-	-	-	-	-	-	-	-
Max Calc	500	426	35	108	840.31	0.66	0.47	840.97	840.78	

10-Year Velocity through Existing Structure = 2 ft/s
10-Year Velocity through Proposed Structure = 1 ft/s

* 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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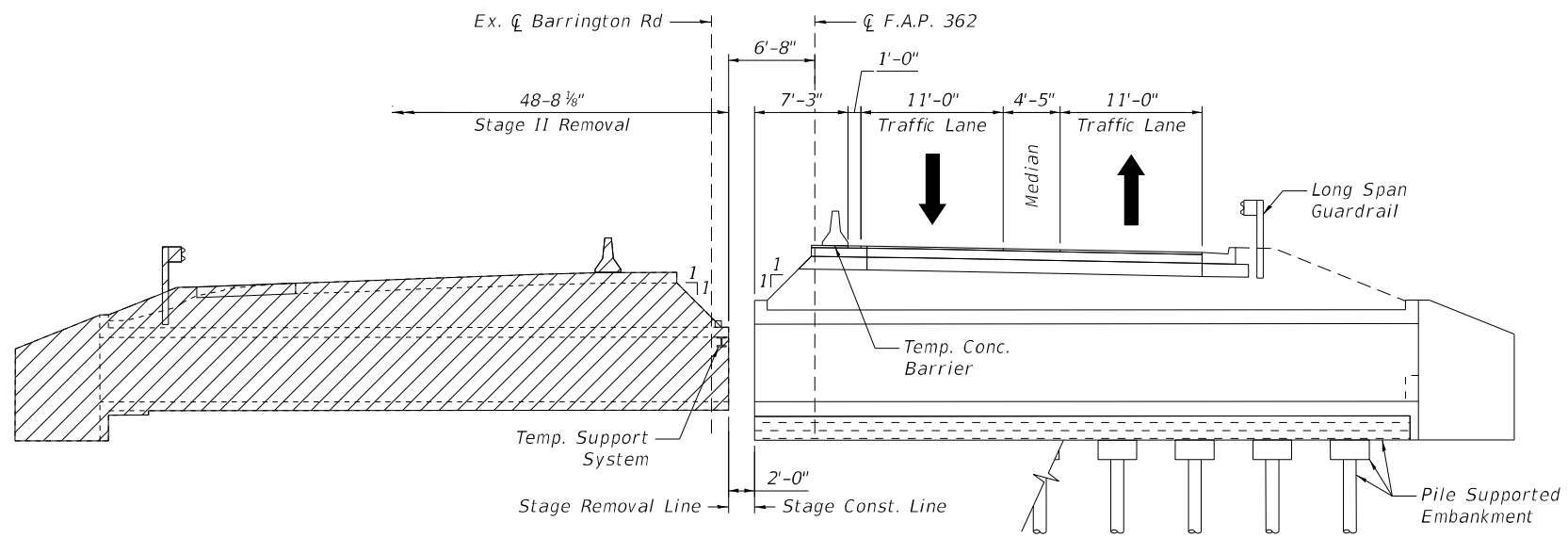
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	DATE - 02/02/2026	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

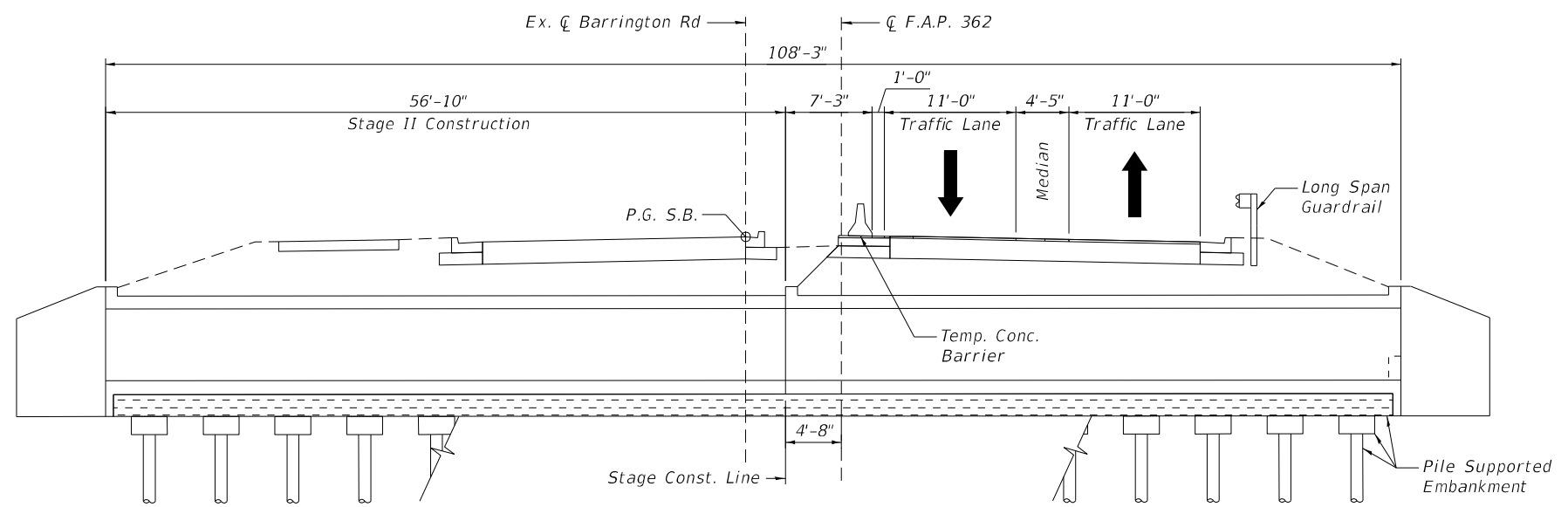
**GENERAL DATA
STRUCTURE NO. 016-2313**

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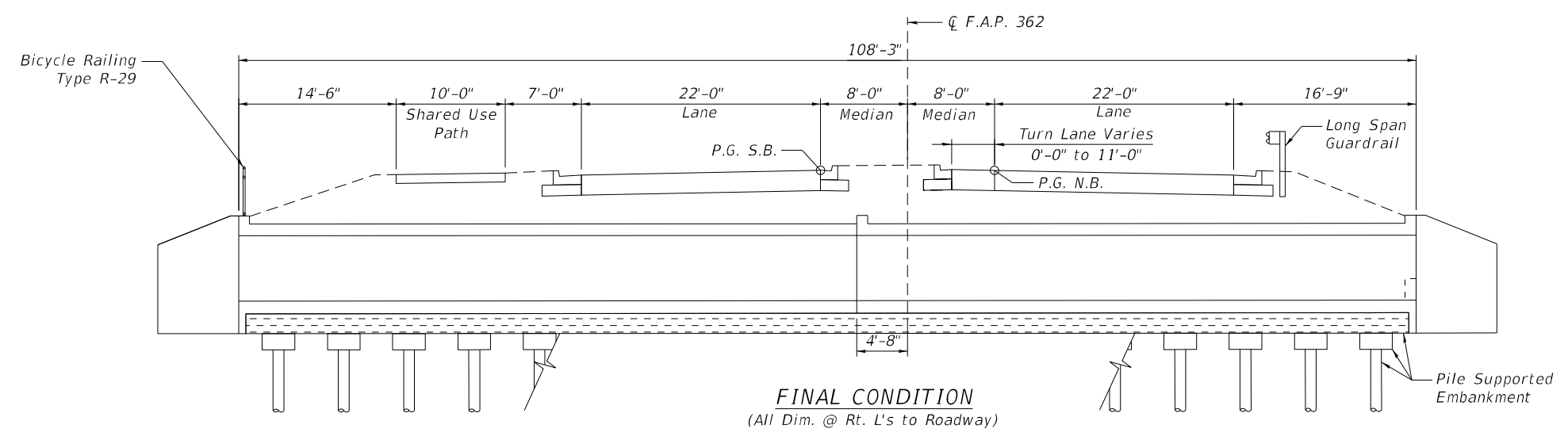
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	310
CONTRACT NO. 62K33			ILLINOIS FED. AID PROJECT	



STAGE 2 REMOVAL
(All Dim. @ Rt. L's to Roadway)



STAGE 2 CONSTRUCTION
(All Dim. @ Rt. L's to Roadway)



FINAL CONDITION
(All Dim. @ Rt. L's to Roadway)

- NOTES**
1. See Sheet S-5 for Temporary Concrete Barrier Details.
 2. Hatched area indicates removal of existing structures.

MODEL: Culvert Stage 2 Construction
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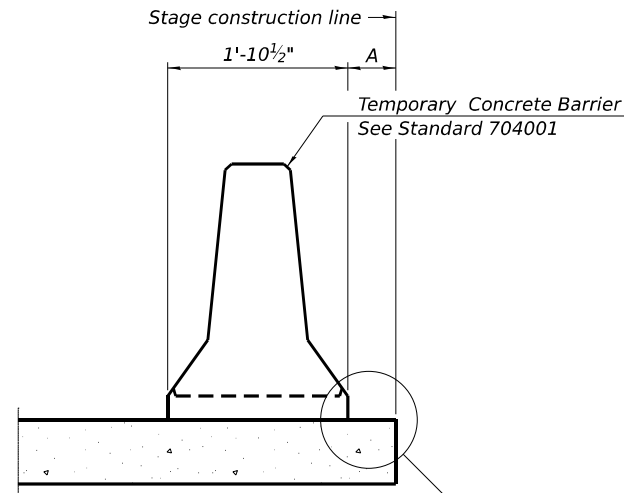
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	DRAWN - JPK	REVISED -
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PLOT DATE = 2/3/2026	DATE - 02/02/2026	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION 2 OF 2
STRUCTURE NO. 016-2313**

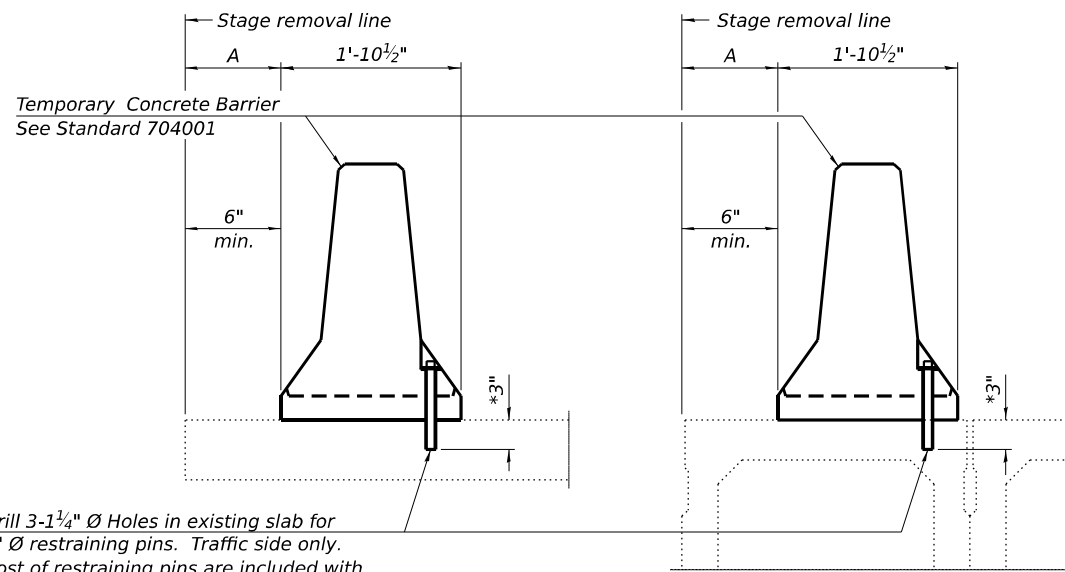
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	312
CONTRACT NO. 62K33				
ILLINOIS FED. AID PROJECT				



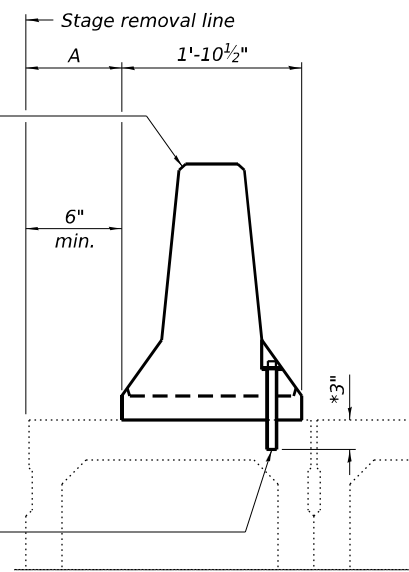
When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM



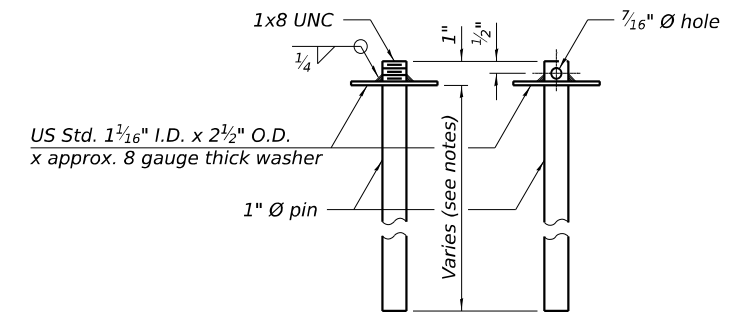
Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB



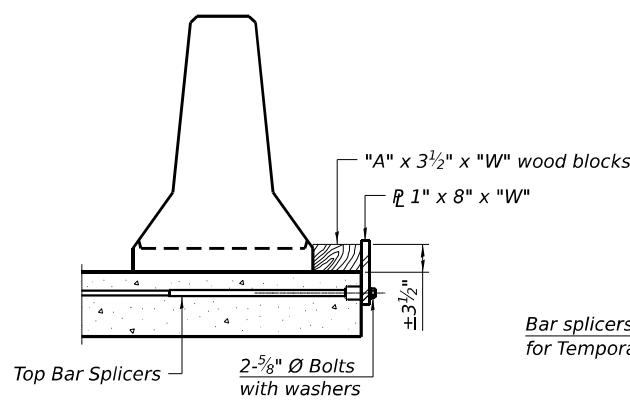
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

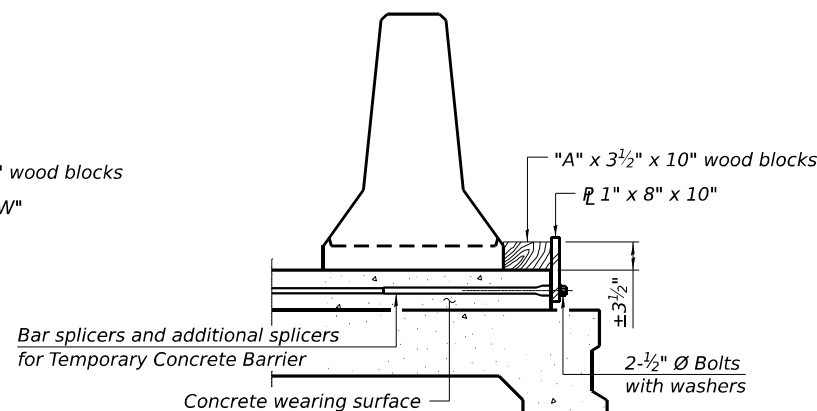


RESTRAINING PIN

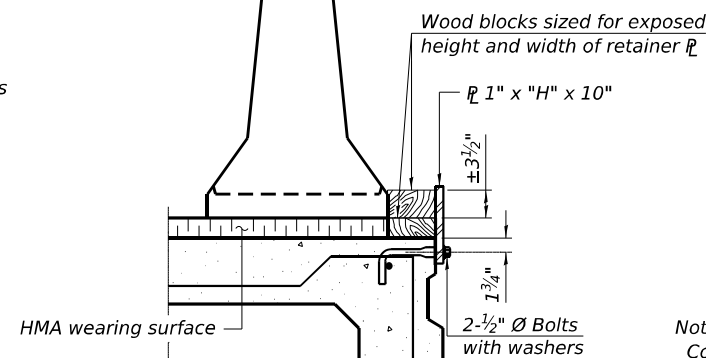
SECTIONS THRU SLAB OR DECK BEAM



DETAIL I

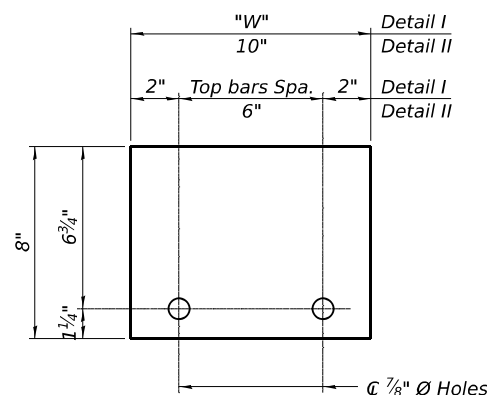


DETAIL II

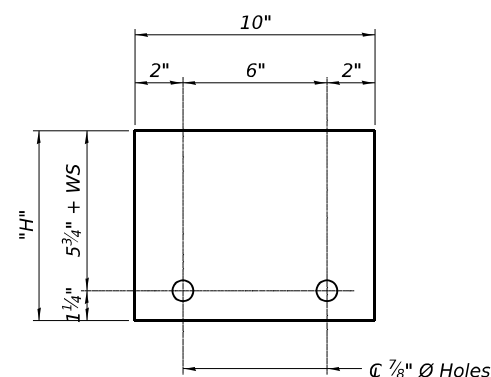


DETAIL III

BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER 1" x 8" x "W" (Detail I and II)



STEEL RETAINER 1" x "H" x 10" (Detail III)

Notes:
 Cost of retainer assembly is included with Temporary Concrete Barrier.
 A retainer assembly shall be located at the approximate center of each temporary concrete barrier.
 The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.
 When the 'A' dimension is less than 1 1/2", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate.
 For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.

Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.

Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

RAILING CRITERIA

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27 5-15-2023

MODEL: Culvert Details
 FILE NAME: p:\projects\101-2001\101200118\CAD\02 - Sheet\20-Structural\Sheets\01\EX-33-Culvert_Temporary Concrete Barrier



USER NAME =	MazenSyed
DESIGNED -	NMB
DRAWN -	NMB
CHECKED -	STB
DATE -	02/02/2026
REVISIONS	

DESIGNED -	NMB	REVISED -	
DRAWN -	NMB	REVISED -	
CHECKED -	STB	REVISED -	
DATE -	02/02/2026	REVISED -	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER
 STRUCTURE NO. 016-2313

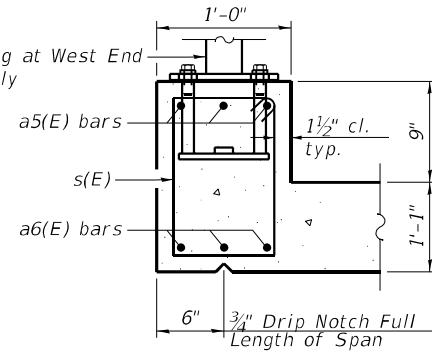
SCALE: SHEET S-5 OF S-16 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	313
CONTRACT NO. 62K33			ILLINOIS FED. AID PROJECT	

NOTES

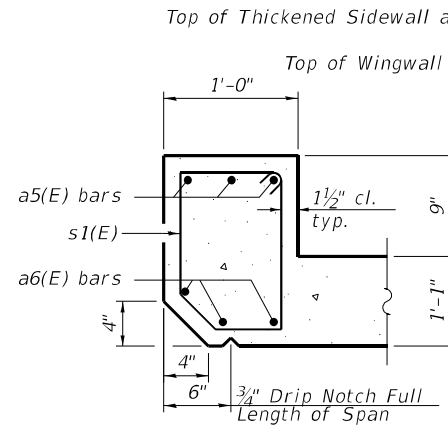
1. For minimum bar lap table, bar diagram, and Bill of Material, see Sheet S-11.
2. For bottom slab reinforcement, see Sheet S-6.
3. For wingwall sections, see Sheets S-9 & S-10.
4. For weir reinforcement and details, see Sheet S-11.
5. For top slab Drain Detail, see Sheet S-2.
6. Bars indicated thus 26x2-#6 etc. indicates 26 lines of bars with 2 lengths per line.

Bicycle Railing at West End of Culvert Only



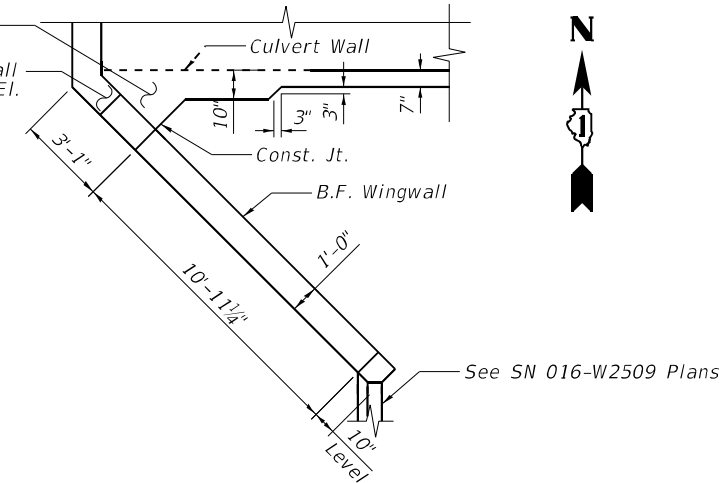
SECTION A-A

(Through Downstream and Stage Line Headwalls)
Note: Typical Top Slab Reinforcement Omitted for Clarity



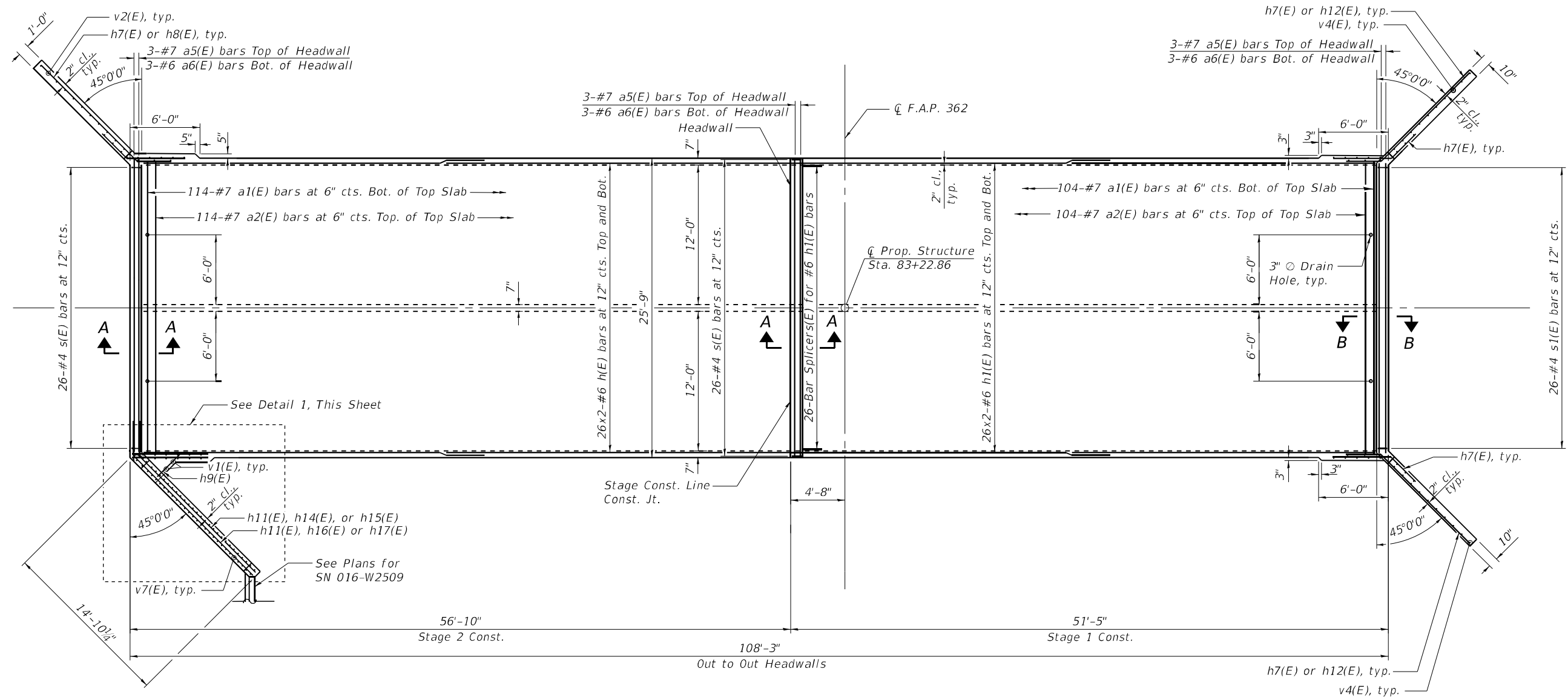
SECTION B-B

(Through Upstream Headwall)
Note: Typical Top Slab Reinforcement Omitted for Clarity



DETAIL 1

(Southwest Wingwall Geometry)
Note: Reinforcement Omitted for Clarity



TOP SLAB - REINFORCEMENT

MODEL: Culvert Top Slab
 FILE NAME: p:\projects\2019-161-W\2019-161-W-01-Structural\Drawings\Sheet\016K33-Culvert-Details-Top Slab.dgn
 PROJECT: 2019-161-W-01-Structural\Projects\2019-161-W-01-Structural\Drawings\Sheet\016K33-Culvert-Details-Top Slab.dgn



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PLOT DATE	= 2/3/2026

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DRAWN	- NMB
CHECKED	- STB
DATE	- 02/02/2026

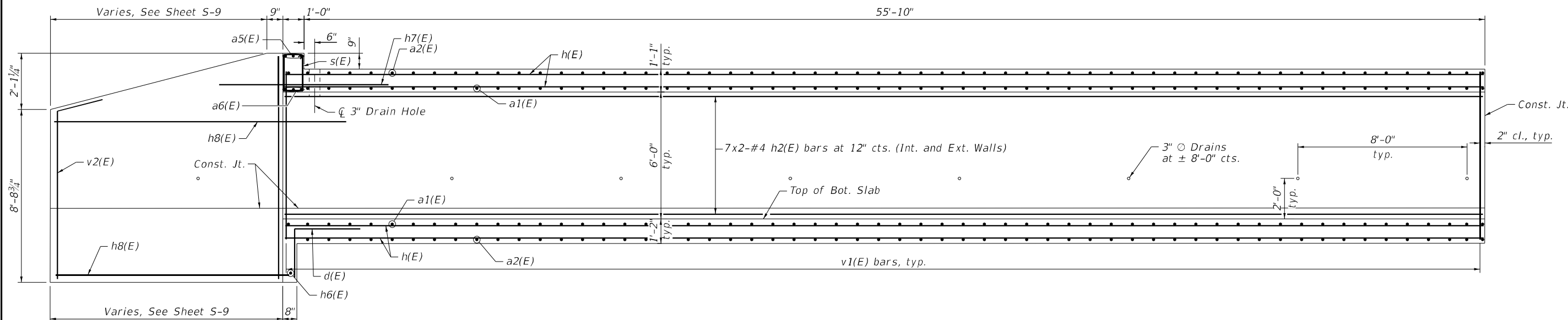
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REVISED	-
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CULVERT PLAN TOP SLAB DETAILS
STRUCTURE NO. 016-2313**

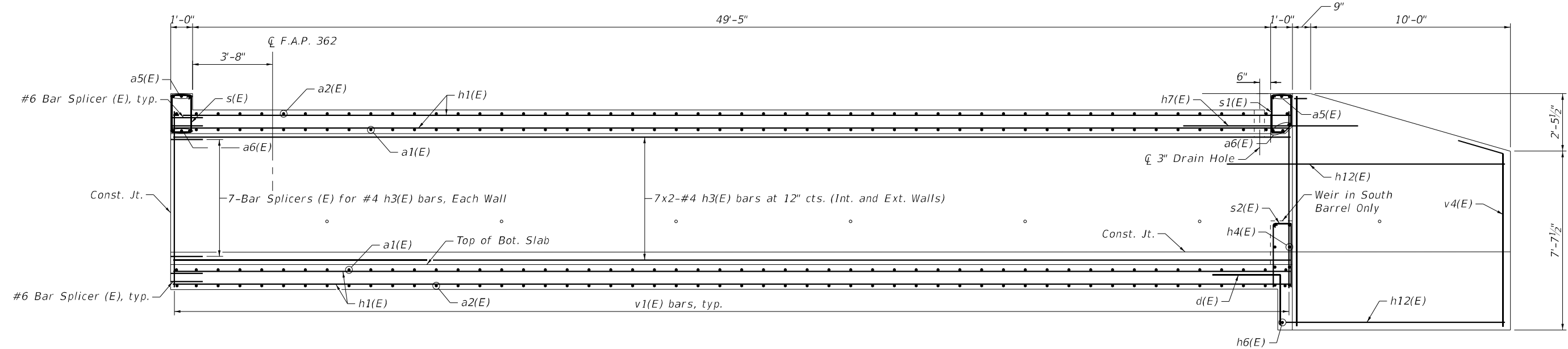
SCALE: 1" = 5' SHEET S-7 OF S-16 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	315
CONTRACT NO. 62K33				
ILLINOIS FED. AID PROJECT				



LONGITUDINAL SECTION - WEST END
(Looking North)

* For Clarity, Only Northwest Wingwall Shown



LONGITUDINAL SECTION - EAST END
(Looking North)

NOTES

1. For minimum bar lap table, bar diagram, and Bill of Material, see Sheet S-11.
2. For top slab reinforcement, see Sheet S-7.
3. For bottom slab reinforcement, see Sheet S-6.
4. For wingwall details, see Sheets S-9 & S-10.
5. For weir reinforcement and details, see Sheet S-11.

MODEL: Culvert Details
 FILE NAME: p:\projects\2019\2019-161-W\Documents\Projects_2020\CAD\01\001\20200118\CAD\02_Sheet\02-Structural\Sheets\016\K33-Culvert-Elevations.dgn



USER NAME = MazenSyed	DESIGNED - NMB	REVISED -
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	DATE - 02/02/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

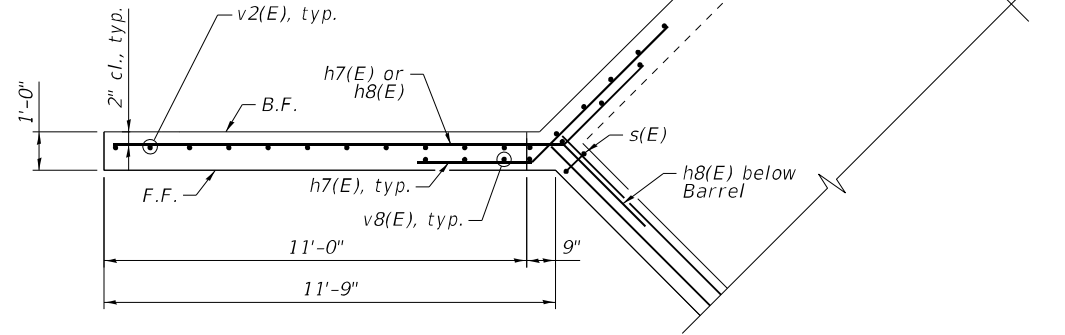
CULVERT LONGITUDINAL SECTION
STRUCTURE NO. 016-2313

SCALE: 1" = 5' SHEET S-8 OF S-16 SHEETS STA. TO STA.

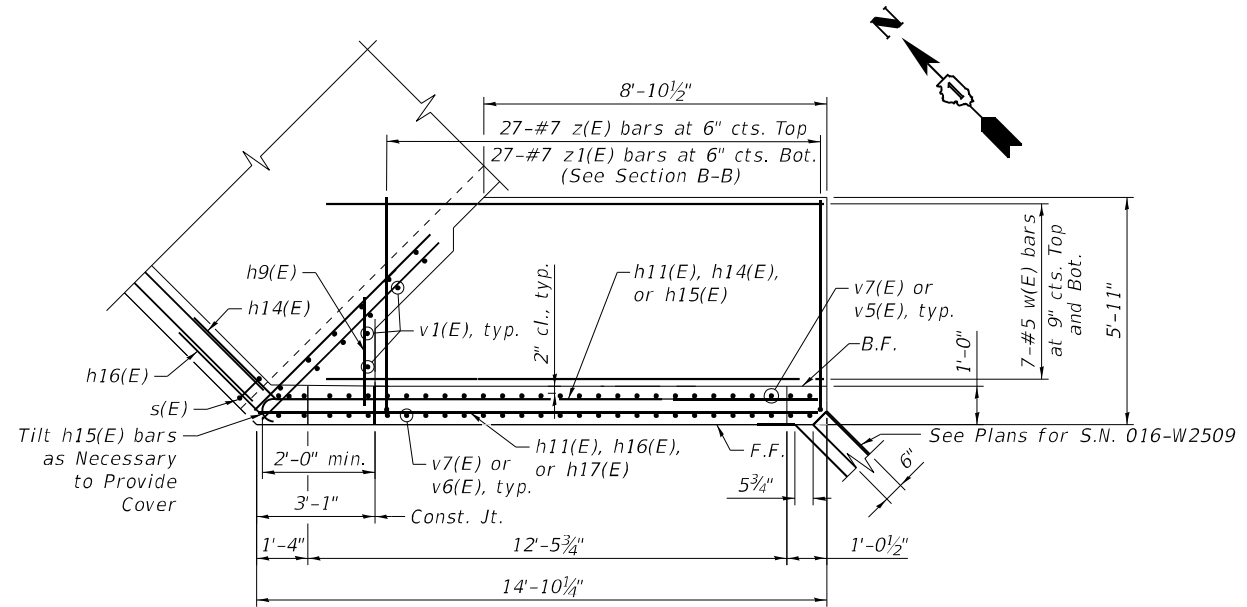
F.A.P. RTE. 362	SECTION 2019-161-W	COUNTY COOK	TOTAL SHEETS 666	SHEET NO. 316
CONTRACT NO. 62K33			ILLINOIS FED. AID PROJECT	

NOTES

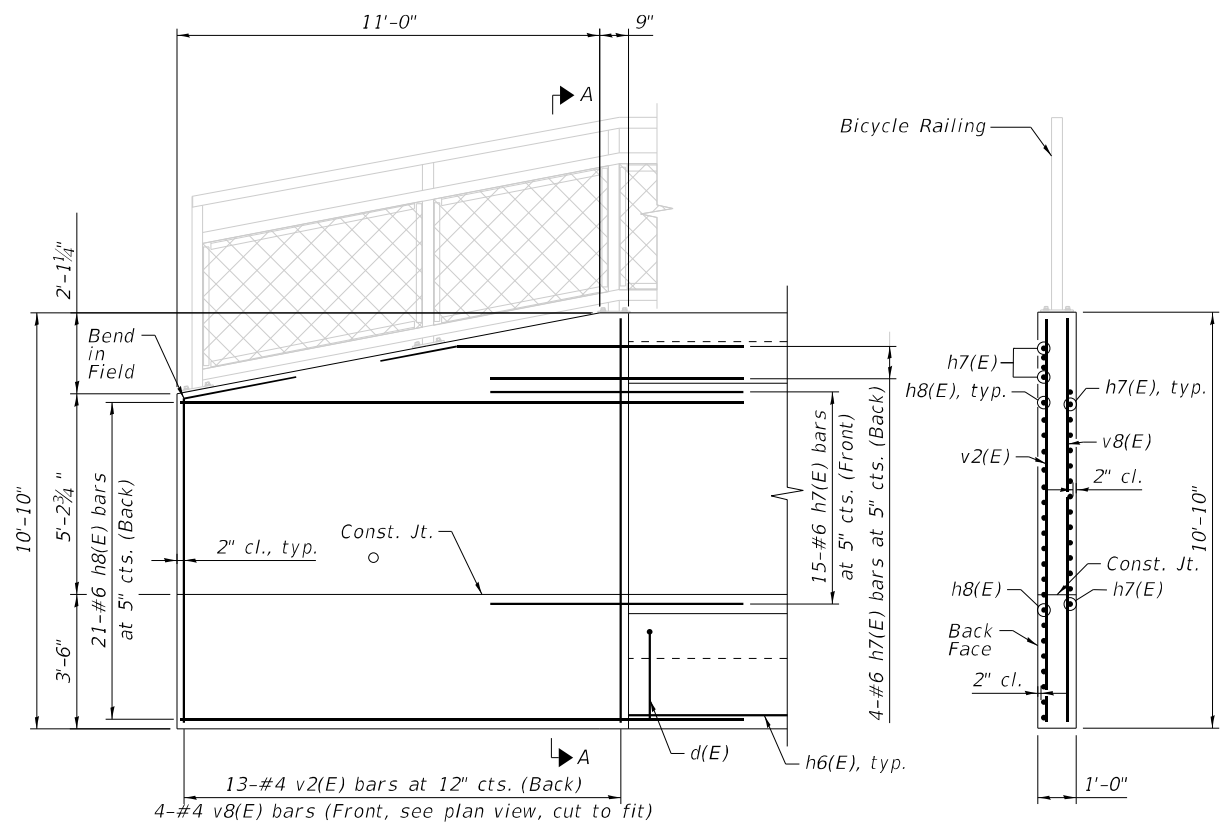
1. For minimum bar lap table, bar diagram and Bill of Material, see Sheet S-11.
2. For top slab reinforcement, see Sheet S-7.
3. For bottom slab reinforcement, see Sheet S-6.
4. For culvert longitudinal section, see Sheet S-8.
5. For weir reinforcement and details, see Sheet S-11.
6. For Bicycle Railing details, see Sheets S-12 and S-13.



N.W. WINGWALL PLAN

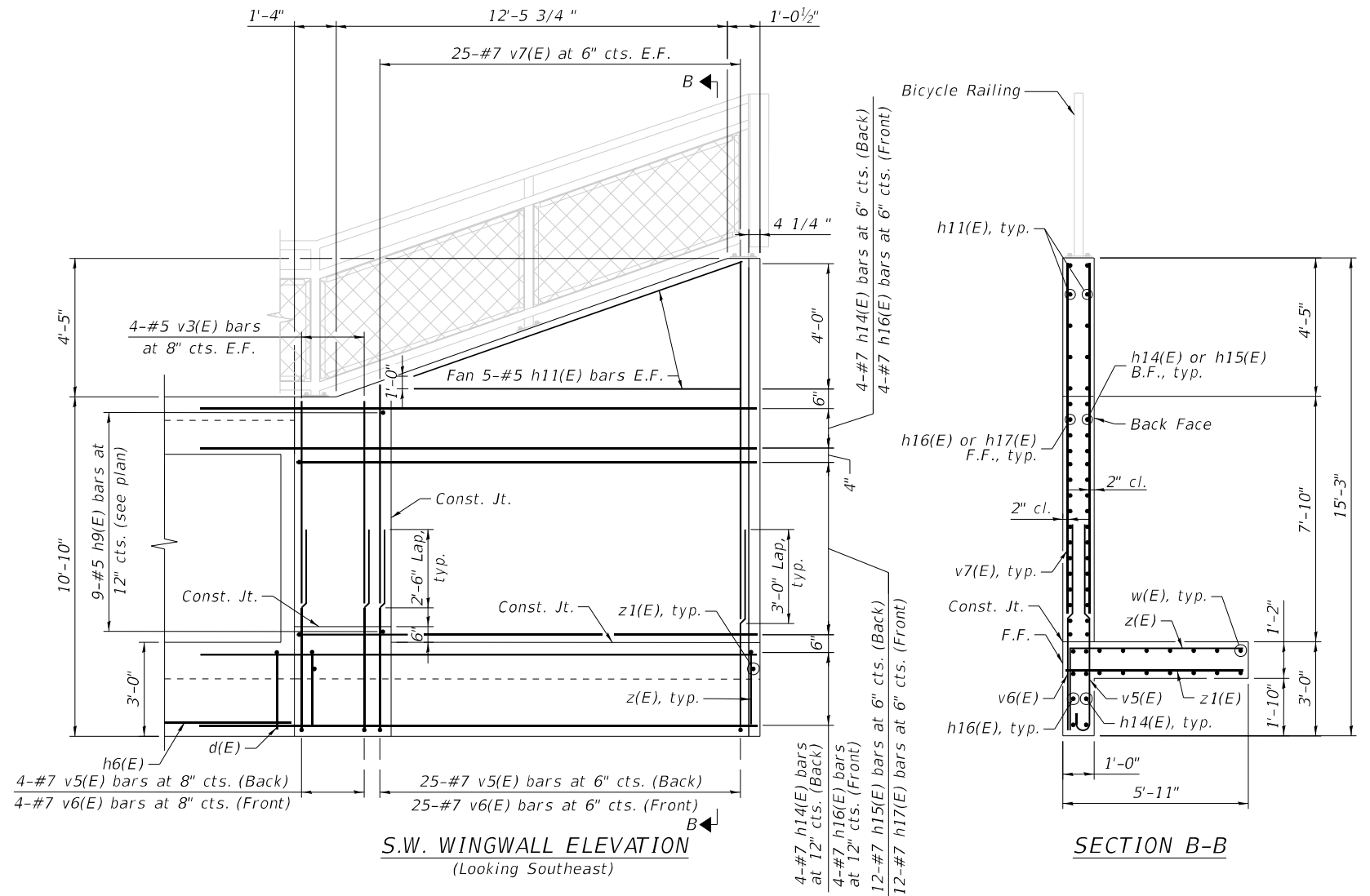


S.W. WINGWALL PLAN



N.W. WINGWALL ELEVATION
(Looking Northeast)

SECTION A-A



S.W. WINGWALL ELEVATION
(Looking Southeast)

SECTION B-B

MODEL: Culvert Details
 FILE NAME: p:\projects\01-2019-161-W\Drawings\Structural\Sheets\01-2019-161-W-Wingwall Details.dgn
 PROJECT: 2019-161-W
 SHEET: 317



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	DATE - 02/02/2026	REVISED -

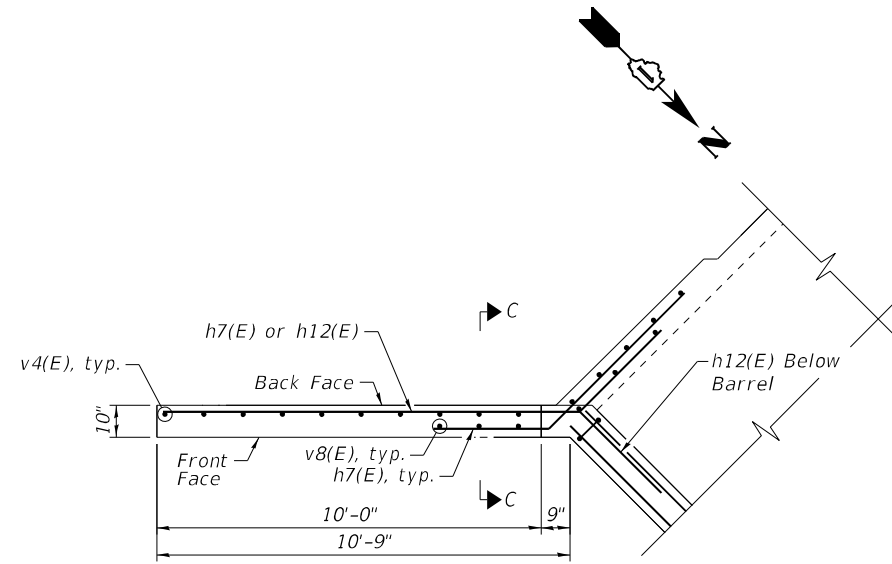
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST WINGWALL DETAILS
STRUCTURE NO. 016-2313

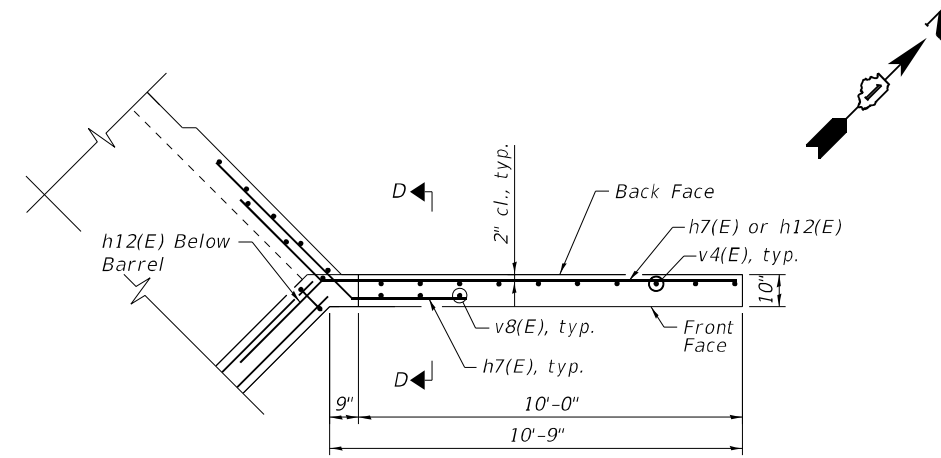
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	317
CONTRACT NO. 62K33			ILLINOIS FED. AID PROJECT	

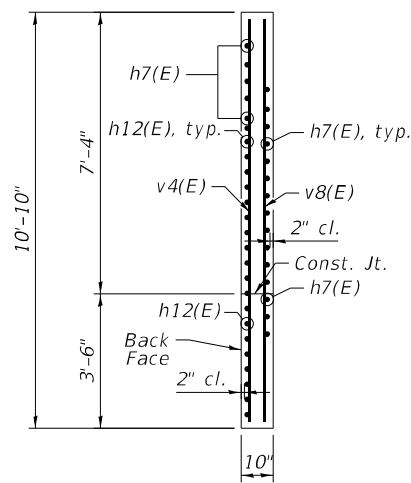
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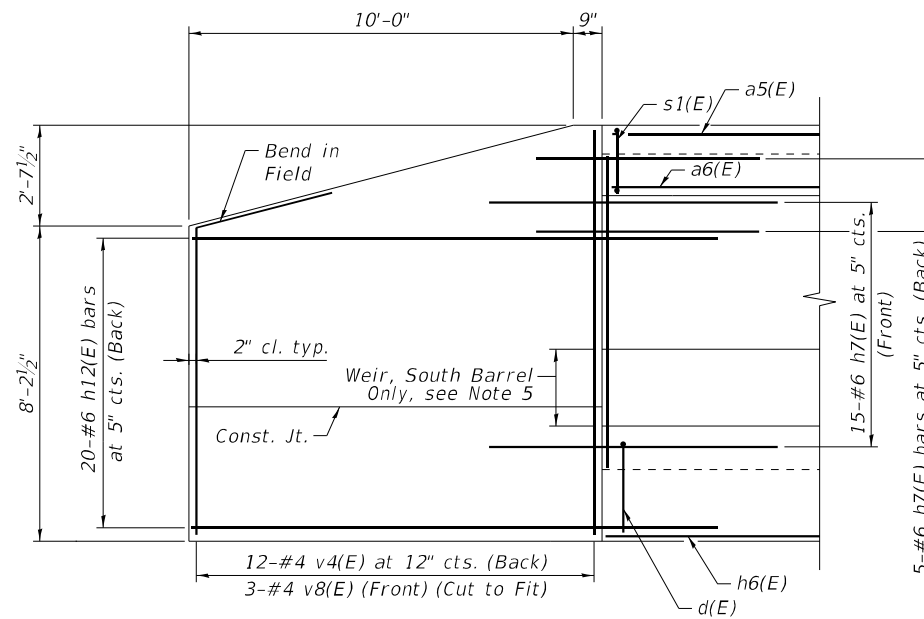
S.E. WINGWALL PLAN



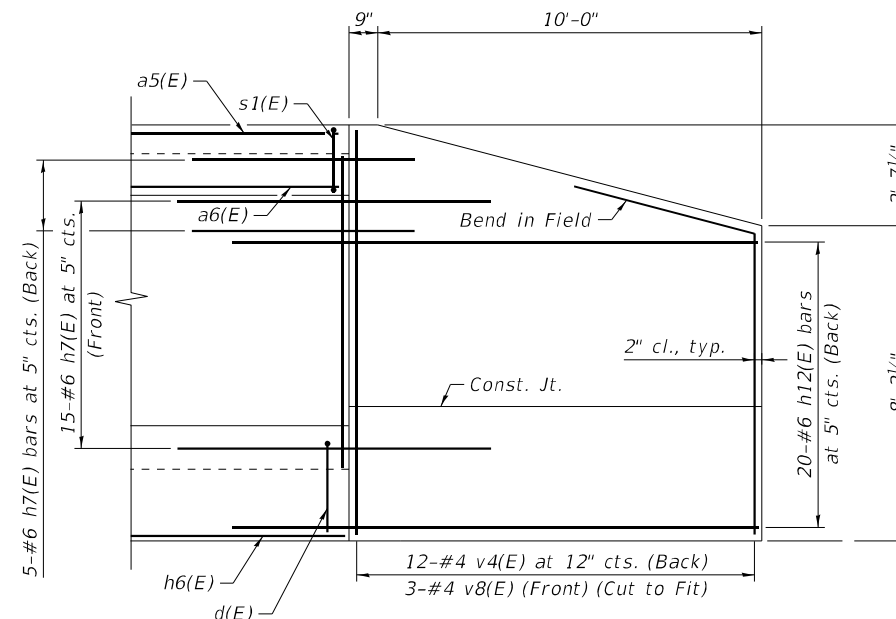
N.E. WINGWALL PLAN



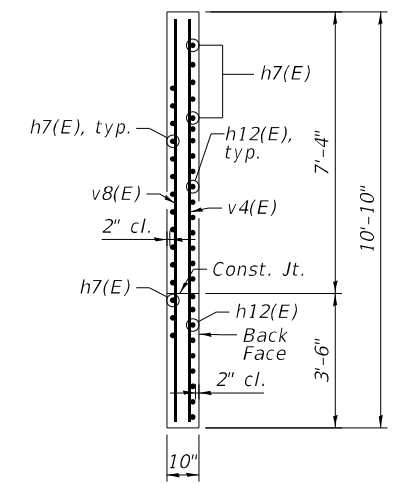
SECTION C-C



S.E. WINGWALL ELEVATION
(Looking Southwest)



N.E. WINGWALL ELEVATION
(Looking Northwest)



SECTION D-D

NOTES

1. For minimum bar lap table, bar diagram, and Bill of Material, see Sheet S-11.
2. For top slab reinforcement, see Sheet S-7.
3. For bottom slab reinforcement, see Sheet S-6.
4. For culvert longitudinal section, see Sheet S-8.
5. For weir reinforcement and details, see Sheet S-11.



USER NAME = MazenSyed	DESIGNED - NMB	REVISED -
PLOT SCALE =	DRAWN - MS	REVISED -
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	DATE - 02/02/2026	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

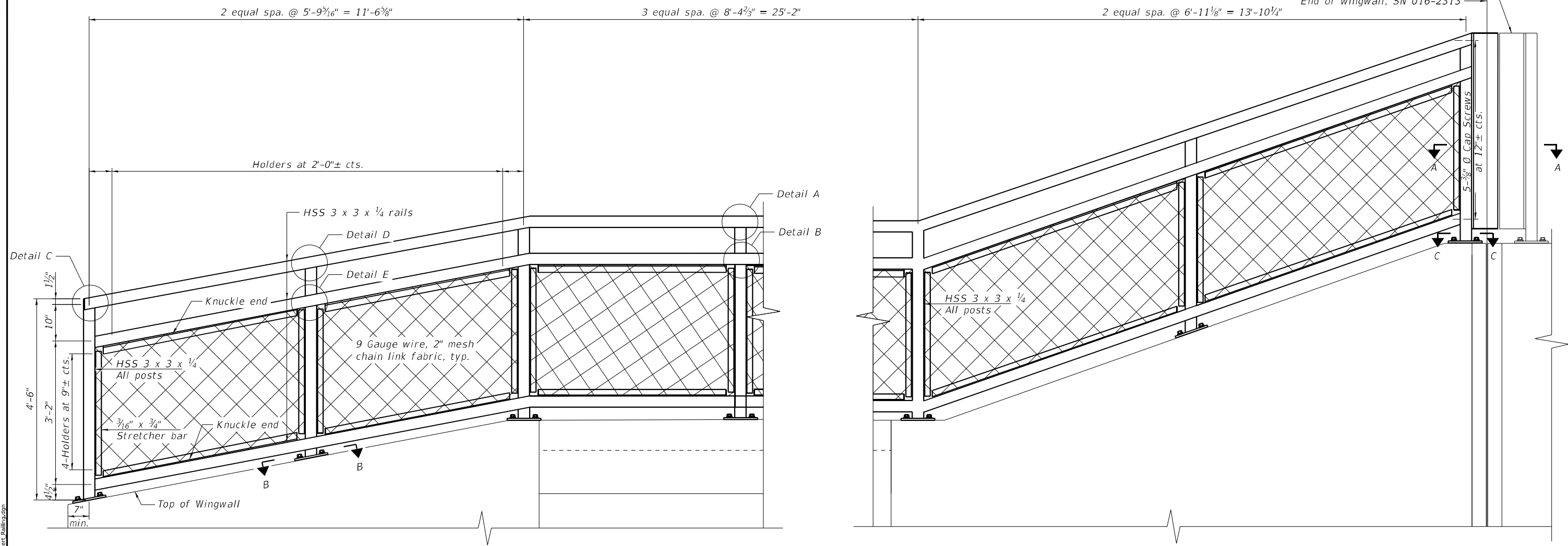
**EAST WINGWALL DETAILS
STRUCTURE NO. 016-2313**

SCALE: NTS SHEET S-10 OF S-16 SHEETS STA. TO STA.

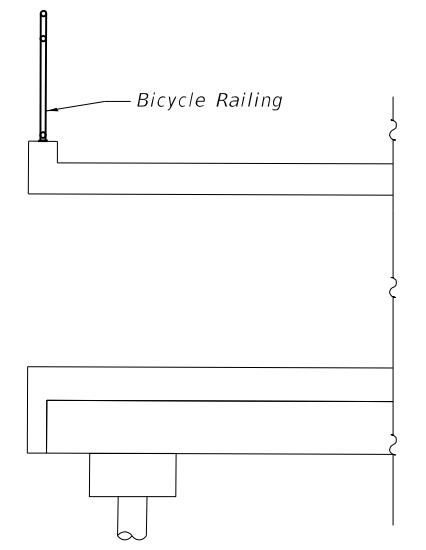
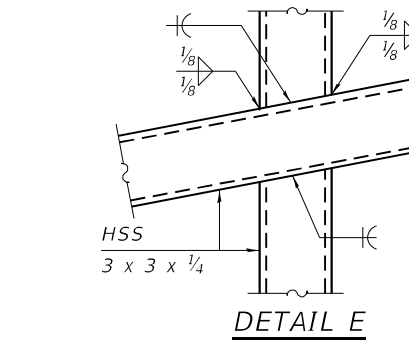
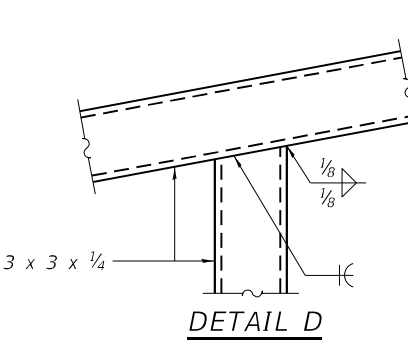
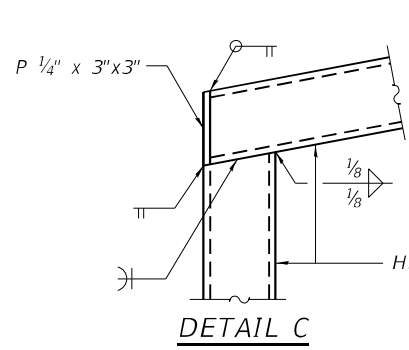
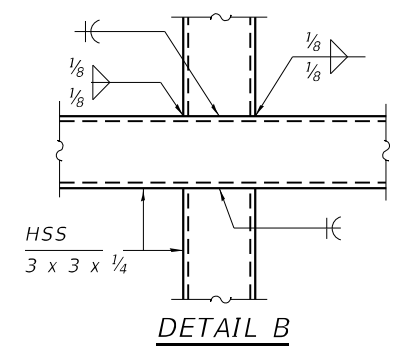
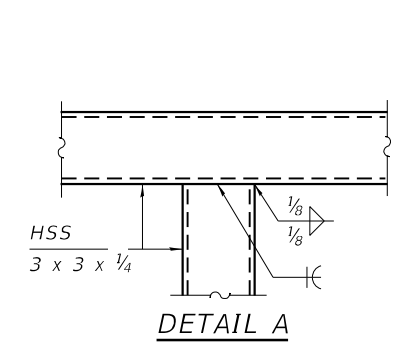
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	318
CONTRACT NO. 62K33				
ILLINOIS FED. AID PROJECT				

See Plans for SN 016-W2509

End of wingwall, SN 016-2313



ELEVATION BICYCLE RAILING
(Outside Face)



SECTION THRU BARREL

RAILING CRITERIA

MASH 2016 Test Level	4
Bicycle Railing Weight (plf)	50
Max Post Spacing	10'-0"

NOTES:

- For Sections A-A, B-B, and C-C see Sheet S-13.

MODEL: Railing Details 1 of 2
 FILE NAME: p:\projects\02-2019-161-w-2509\transp\scrs\p01\Documents\Projects_2020\CAD\01\001200118\CAD\02 - Sheet\02-Structural\Sheets\016\K33-Sublet_Railing.dgn



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PLOT SCALE	= 0.1666667 / in.
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DRAWN	- JPK
CHECKED	- STB
DATE	- 02/02/2026

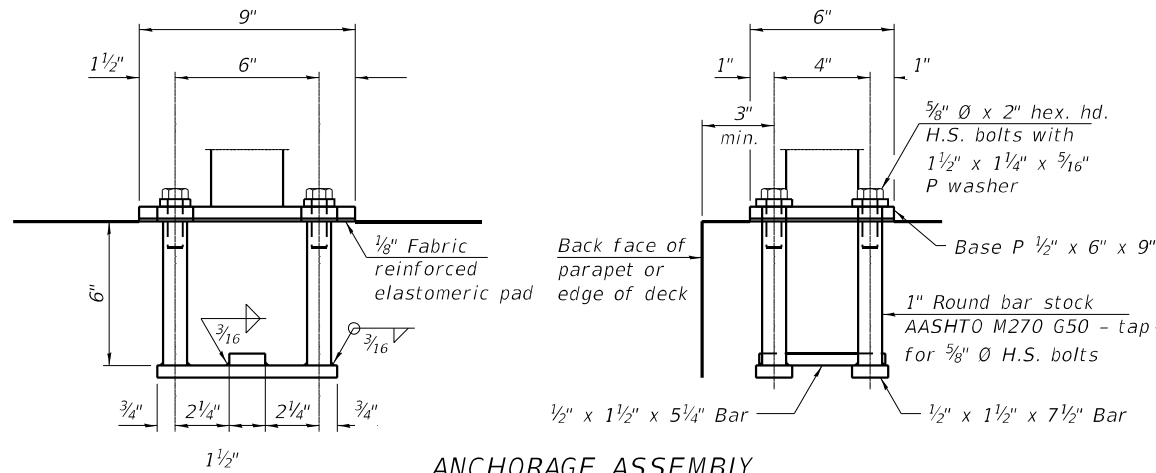
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RAILING DETAILS 1
STRUCTURE NO. 016-2313**

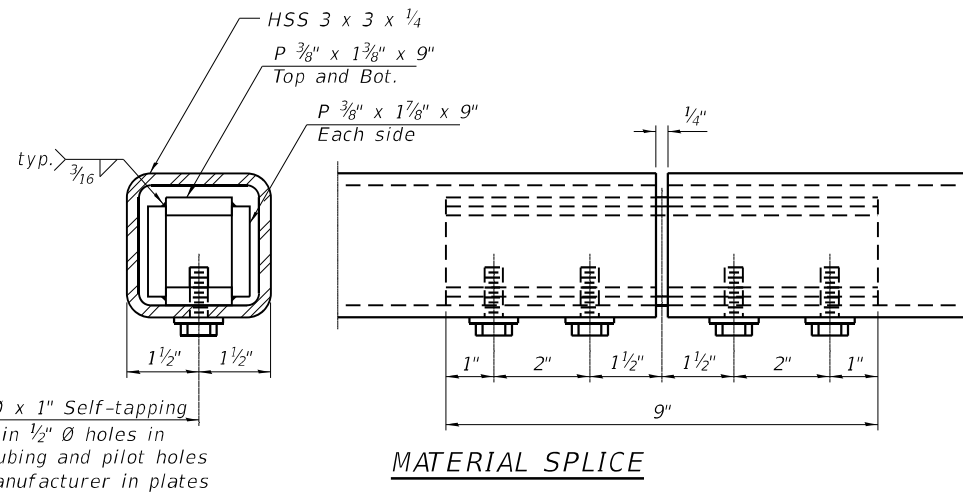
SCALE: SHEET S-12 OF S-16 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	320
CONTRACT NO. 62K33			ILLINOIS FED. AID PROJECT	



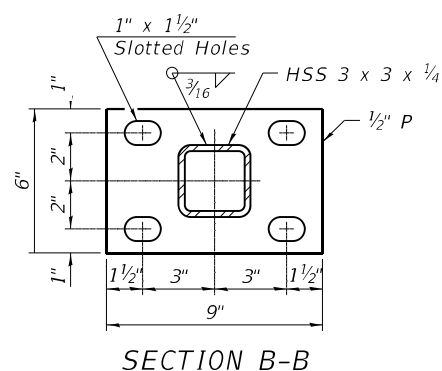
ANCHORAGE ASSEMBLY

The Bicycle Railing fasteners for end posts near expansion joints may need to be installed prior to installing the bent plates. In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" Ø fully threaded anchor rods with the same plate washers as specified above and heavy hex lock nuts according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

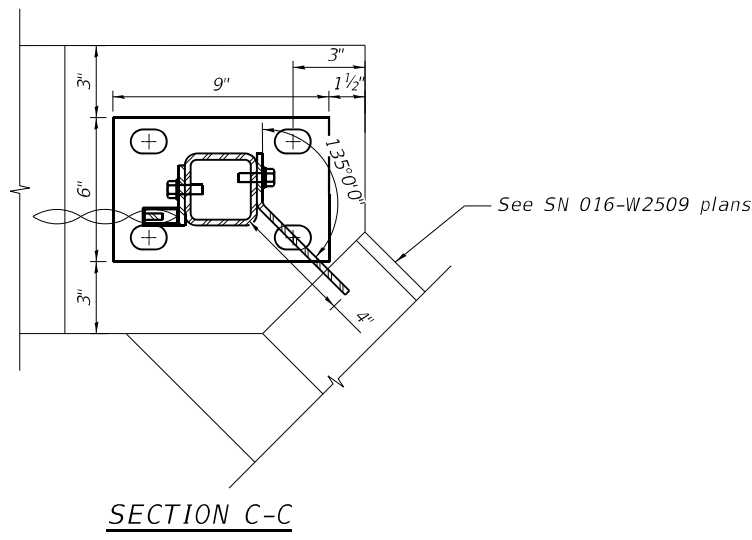


MATERIAL SPLICE

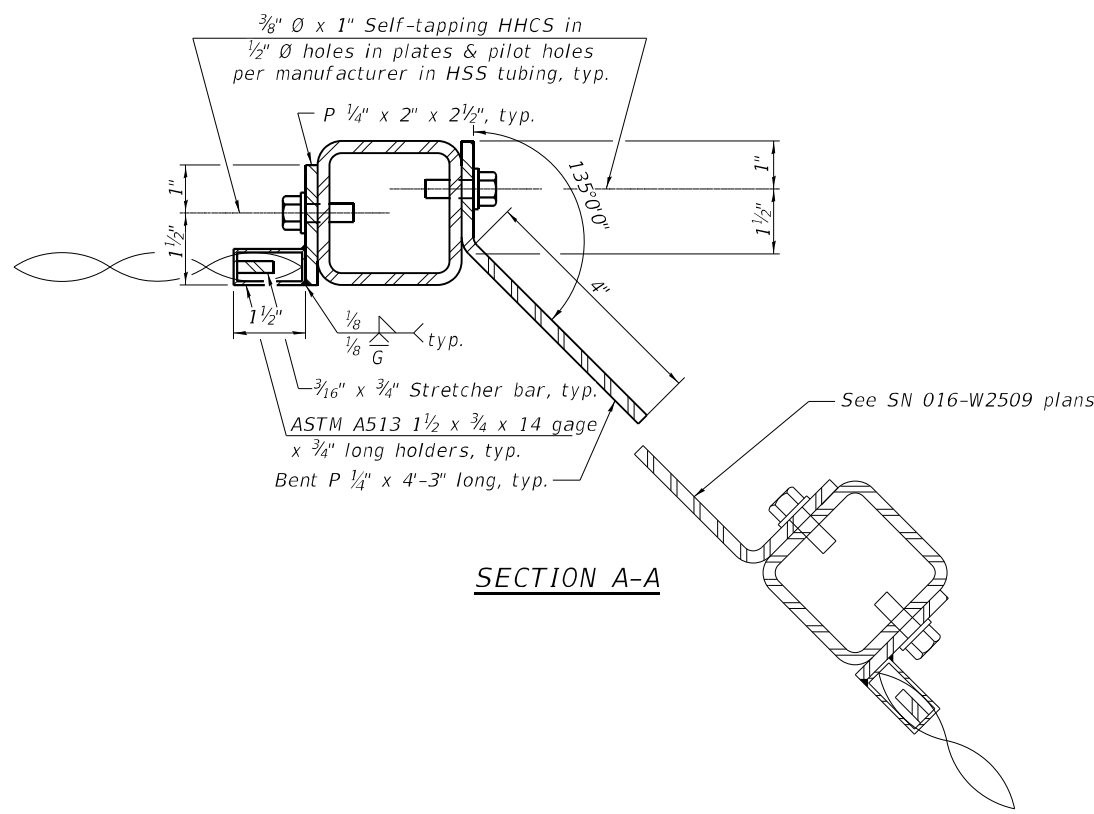
Notes:
 Place reinforcement bars to miss anchor rod locations. CVN testing is not required for the HSS tubing used in the Bicycle Railing.
 All HSS tubing used for the Bicycle Railing shall be ASTM A500 grade C.
 All base plates used for the Bicycle Railing shall be AASHTO M270 grade 50.
 All heavy hex nuts shall be according to ASTM A 563 grade DH. All fully threaded anchor rods shall be ASTM F1554 grade 105. The post base plate shall be fastened to the top of wall snug tight and given an additional 1/8" turn.
 Contractor shall offset posts to miss any joints for sufficient installation of the anchorage assembly.
 Rail splice inserts may be built out of bent plates of the same thicknesses and outside geometry limits as the 4 plate rail splice inserts shown.
 When the contract specifies a galvanized railing, all steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications. When the contract specifies a painted railing, all posts, rail, splices, anchor devices and plates of the railing shall be painted according to the paint system for railings as specified in the General Notes.



SECTION B-B



SECTION C-C



SECTION A-A

BILL OF MATERIAL

Item	Unit	Quantity
Bicycle Railing	Foot	52

MODEL: Railing Details 2 of 2
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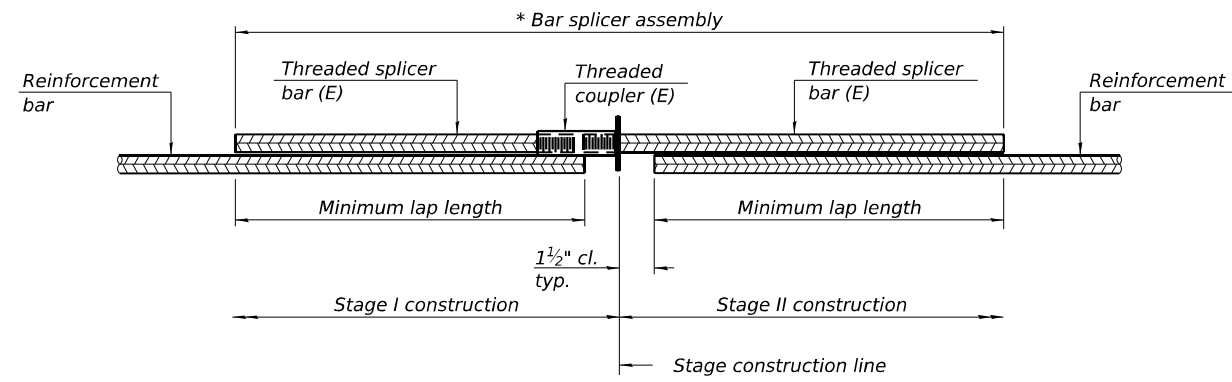
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	DATE - 02/02/2026	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**RAILING DETAILS 2
 STRUCTURE NO. 016-2313**

SCALE: SHEET S-13 OF S-16 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	321
			CONTRACT NO. 62K33	
		ILLINOIS FED. AID PROJECT		

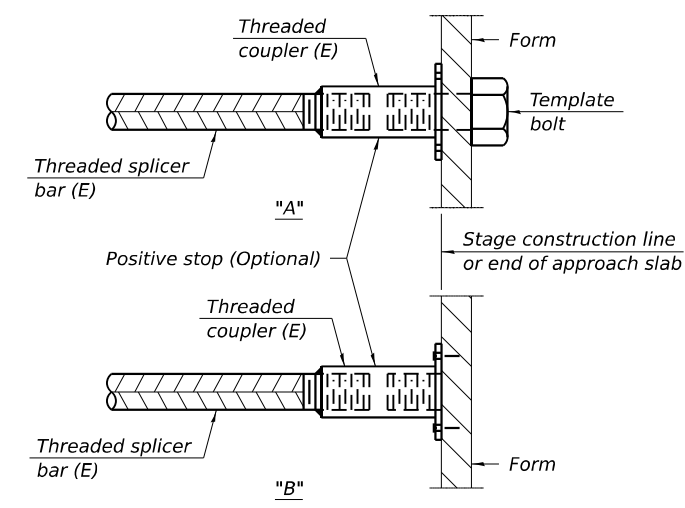


STANDARD BAR SPLICER ASSEMBLY PLAN
 Only bar splicer assemblies as presented on the approved QPL list may be used.

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

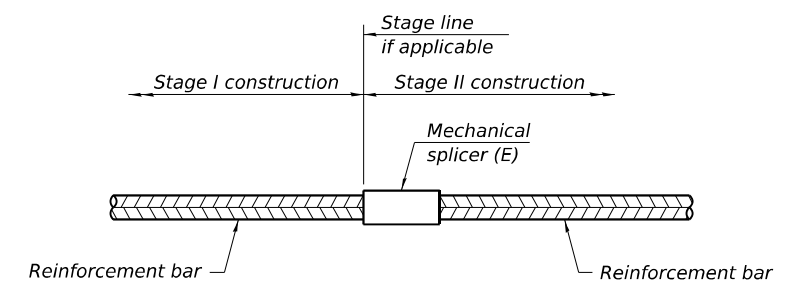
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Bottom Slab	#6	52	3'-10"
Top Slab	#6	52	3'-10"
South Wall	#4	7	3'-2"
Middle Wall	#4	7	3'-2"
North Wall	#4	7	3'-2"



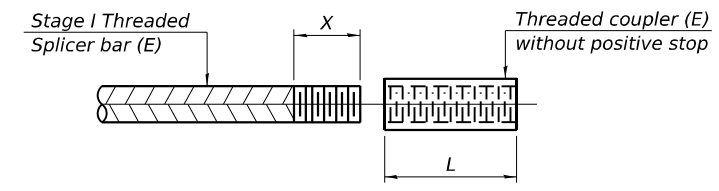
INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



THREADING OF ASSEMBLIES

The threaded length "X" shall be no more than L/2. The bar should be tightened until 0-1 thread(s) is/are exposed.

Notes:
 Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
 All reinforcement shall be lapped and tied to the splicer bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

MODEL: Culvert Details
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BSD-1

4-4-2025



USER NAME = MazenSyed	DESIGNED - NMB	REVISED -
PLOT SCALE = 0.166666' / in.	DRAWN - NMB	REVISED -
PLOT DATE = 2/3/2026	CHECKED - STB	REVISED -
	DATE - 02/02/2026	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
 STRUCTURE NO. 016-2313**

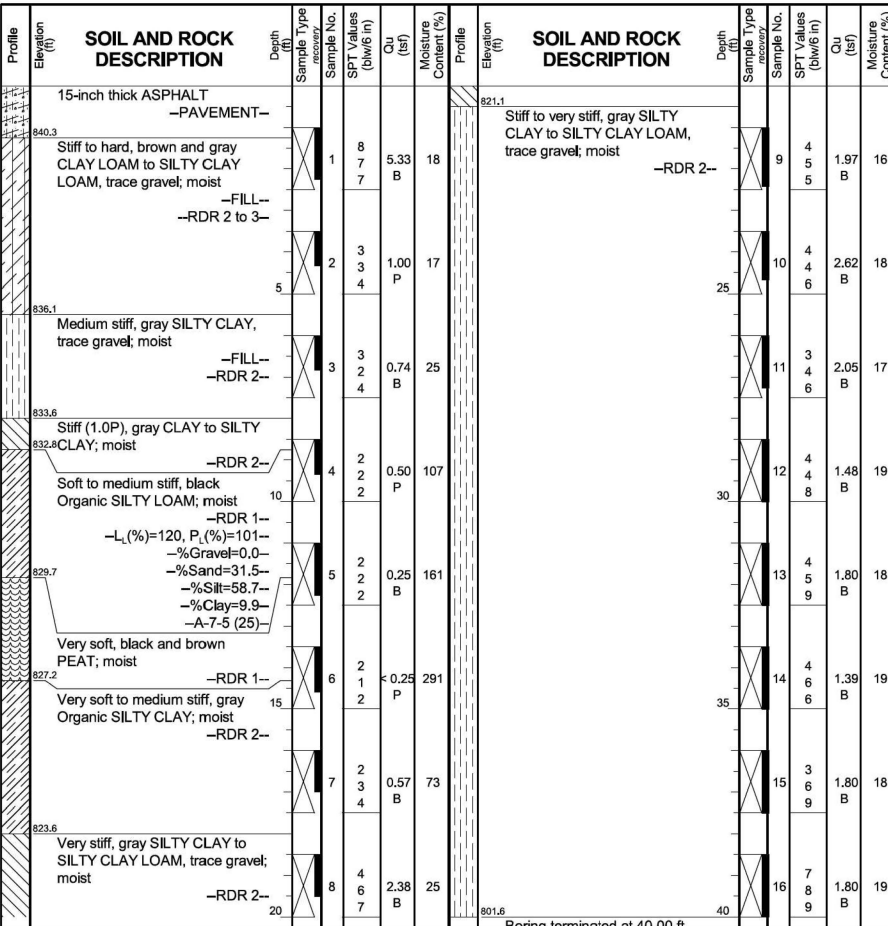
SCALE: SHEET S-14 OF S-16 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	322
CONTRACT NO. 62K33			ILLINOIS FED. AID PROJECT	

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 wangeng@wangeng.com
 1145 N. Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG CUL-01
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 841.55 ft
 North: 1976246.54 ft
 East: 1036428.95 ft
 Station: 83+06.05
 Offset: 9.78 LT



GENERAL NOTES
 Begin Drilling 02-08-2022 Complete Drilling 02-08-2022
 Drilling Contractor Wang Testing Services Drill Rig 21D50A [84%]
 Driller KS&AP Logger A. Scifers Checked by C. Marin
 Drilling Method 2.25" ID HSA; Boring backfilled upon completion

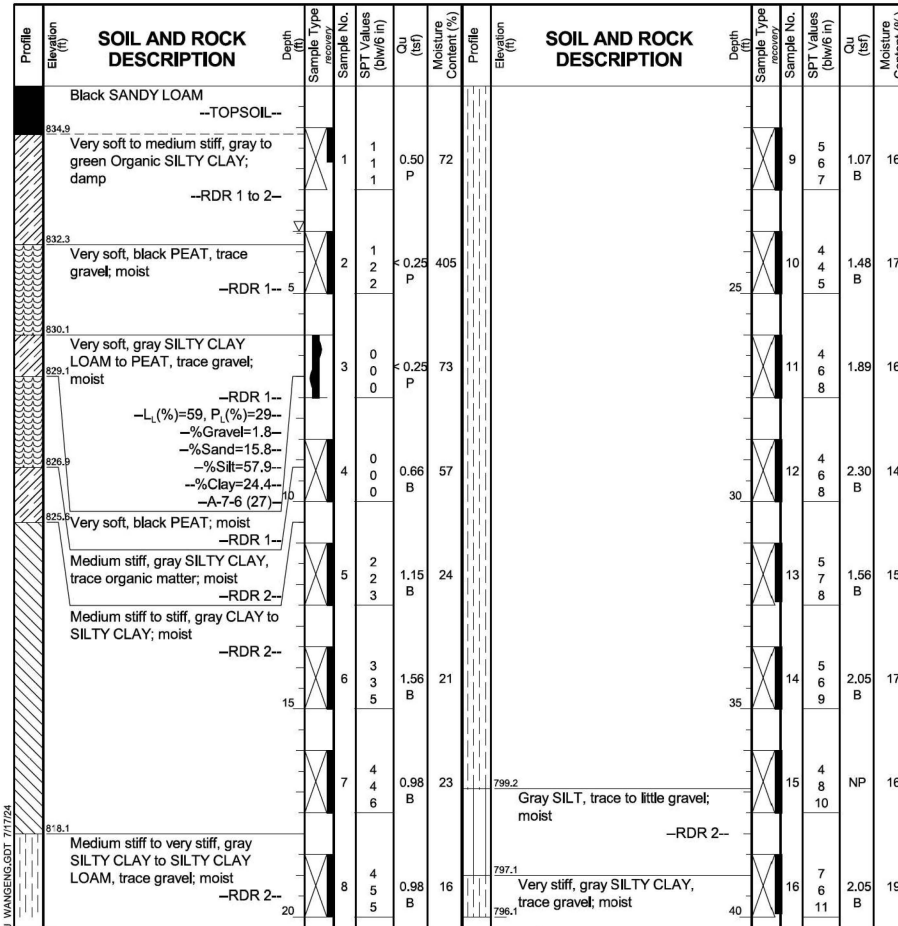
WATER LEVEL DATA
 While Drilling Dry
 At Completion of Drilling Dry
 Time After Drilling NA
 Depth to Water NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

Wang Engineering
 wangeng@wangeng.com
 1145 N. Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG CUL-02
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 836.08 ft
 North: 1976235.54 ft
 East: 1036487.22 ft
 Station: 82+94.80
 Offset: 48.44 RT



GENERAL NOTES
 Begin Drilling 02-07-2022 Complete Drilling 02-07-2022
 Drilling Contractor Wang Testing Services Drill Rig 21D50A [84%]
 Driller KS&AP Logger A. Scifers Checked by C. Marin
 Drilling Method 2.25" ID HSA; Boring backfilled upon completion

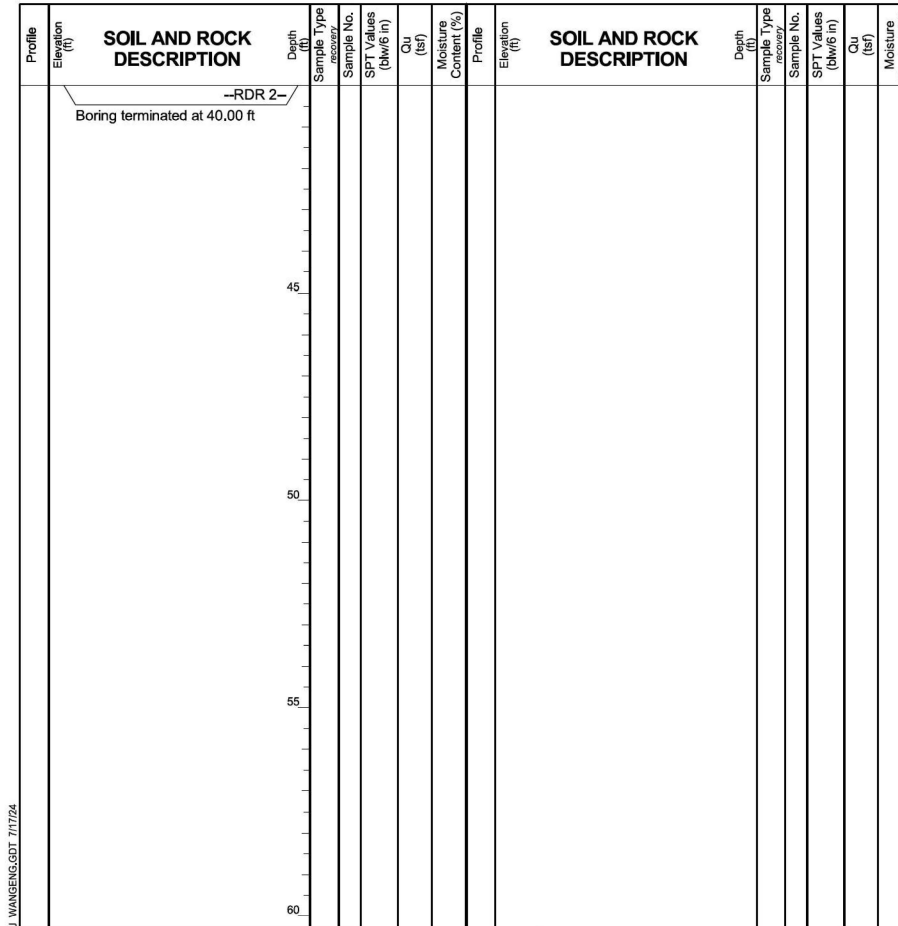
WATER LEVEL DATA
 While Drilling 3.50 ft
 At Completion of Drilling Dry
 Time After Drilling NA
 Depth to Water NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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 Fax: 630-953-9938

BORING LOG CUL-02
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 836.08 ft
 North: 1976235.54 ft
 East: 1036487.22 ft
 Station: 82+94.80
 Offset: 48.44 RT



GENERAL NOTES
 Begin Drilling 02-07-2022 Complete Drilling 02-07-2022
 Drilling Contractor Wang Testing Services Drill Rig 21D50A [84%]
 Driller KS&AP Logger A. Scifers Checked by C. Marin
 Drilling Method 2.25" ID HSA; Boring backfilled upon completion

WATER LEVEL DATA
 While Drilling 3.50 ft
 At Completion of Drilling Dry
 Time After Drilling NA
 Depth to Water NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

MODEL: Culvert 1
 FILE NAME: pz:/hspwint01.e-transyscorp.com/transyscorp-pw/Document/Structural/Sheets/Soil Borings/D162K33-SHT-Soil Borings-Culverts&MSE.dgn
 WANGENGINC_10640101.GPJ WANGENSGD.T 7/17/24
 WANGENGINC_10640101.GPJ WANGENSGD.T 7/17/24



USER NAME = MazenSyed	DESIGNED - JPK	REVISED -
PLOT SCALE = 39.999920' / in.	DRAWN - JPK	REVISED -
PLOT DATE = 2/3/2026	CHECKED - STB	REVISED -
	DATE - 02/02/2026	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SOIL BORING LOGS SHEET 1 OF 2
 STRUCTURE NO. 016-2313**

SCALE: SHEET S-15 OF S-16 SHEETS STA. TO STA.

F.A.P. RTE. 362	SECTION 2019-161-W	COUNTY COOK	TOTAL SHEETS 666	SHEET NO. 323
CONTRACT NO. 62K33				
ILLINOIS FED. AID PROJECT				

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 Fax: 630-953-9938

BORING LOG RWB-05
 WEI Job No.: 1064-01-01

Datum: NAVD 88
 Elevation: 840.41 ft
 North: 1976238.74 ft
 East: 1036396.46 ft
 Station: 82+98.38
 Offset: 42.30 LT

Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Page 1 of 1

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/6 in)	Qu (ksf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/6 in)	Qu (ksf)	Moisture Content (%)
839.6	10-inch thick, black SANDY LOAM; moist	0													
	TOPSOIL														
	Stiff to very stiff, black and gray CLAY LOAM to SILTY CLAY, trace to some gravel; moist	1			5	1.48	17								
		2			4										
		4													
	FILL														
	RDR 2														
	wet spoon														
		2			3	3.20	16								
		6			4										
		4													
		3			3	1.56	21								
		3			3										
		3													
832.4	Medium stiff, black PEAT; interbedded with Organic Silty Clay; wet	10			3	0.82	237								
		10			1										
		2													
829.9	Medium stiff, gray Organic SILTY CLAY; wet	15			0	0.57	161								
		15			0										
		0													
		0													
827.4	Medium stiff, light gray CLAY to SILTY CLAY LOAM, trace gravel; moist	20			2	0.57	24								
		20			2										
		15			2										
		2													
824.9	Very stiff, gray SILTY CLAY, trace gravel; moist	25			4	2.05	18								
		25			5										
		6													
		6													
		9													
820.4		20			5	2.62	21								
		20			6										
		9													

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	02-08-2022	Complete Drilling	02-08-2022	While Drilling	3.50 ft		
Drilling Contractor	Wang Testing Services	Drill Rig	21D50A [84%]	At Completion of Drilling	Dry		
Driller	KS&AP	Logger	A. Scifers	Time After Drilling	NA		
Drilling Method	2.25" ID HSA; Boring backfilled upon completion			Depth to Water	NA		

MODEL: Culvert 2
 FILE NAME: p:\working\pwin101.e-transyscorp.com\transyscorp\pw\Documents\Projects_2020\CAD\1401200118\CAD\02 - Sheets\20-Structural\Sheets\Soil Borings\0162K33-SHT-Soil Borings_Culvert&HSE.dgn
 WANGENGINEERING 10640101.GPJ WANGENGINEERING.DWT 7/17/24



USER NAME	= MazenSyed	DESIGNED	- JPK	REVISED	-
PLOT SCALE	= 39.999920' / in.	DRAWN	- JPK	REVISED	-
PLOT DATE	= 2/3/2026	CHECKED	- STB	REVISED	-
		DATE	- 02/02/2026	REVISED	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SOIL BORING LOGS SHEET 2 OF 2
 STRUCTURE NO. 016-2313**

SCALE: SHEET S-16 OF S-16 SHEETS STA. TO STA.

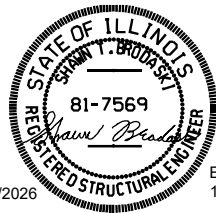
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	324
CONTRACT NO. 62K33				
ILLINOIS FED. AID PROJECT				

Bench Mark: Mag Nail in S. Edge of Pavement at Covered Bridge Road & Barrington Road. STA 83+42.52, 10' LT. Elev. 841.48
 Mag Nail near nose at entrance to Falcon Lakes Subdivision. STA 75+03.15, 11' LT. Elev. 866.79

Existing Structure: None
 No Salvage

LEGEND

- PSE Pile and Cap
- Cofferdam (Type 1)
- PSE Load Transfer Platform
- Approx. Lim. Reinforced Soil Mass
- Limits of PSE for Structures
- Prop. Sewer
- Exist. Aerial Electric
- Soil Boring Location
- Prop. Culvert



APPROVED
 For Structural Adequacy Only
Justin Mann
 Engineer of Bridges & Structures

Date: 02/02/2026 Exp. 11/30/2026

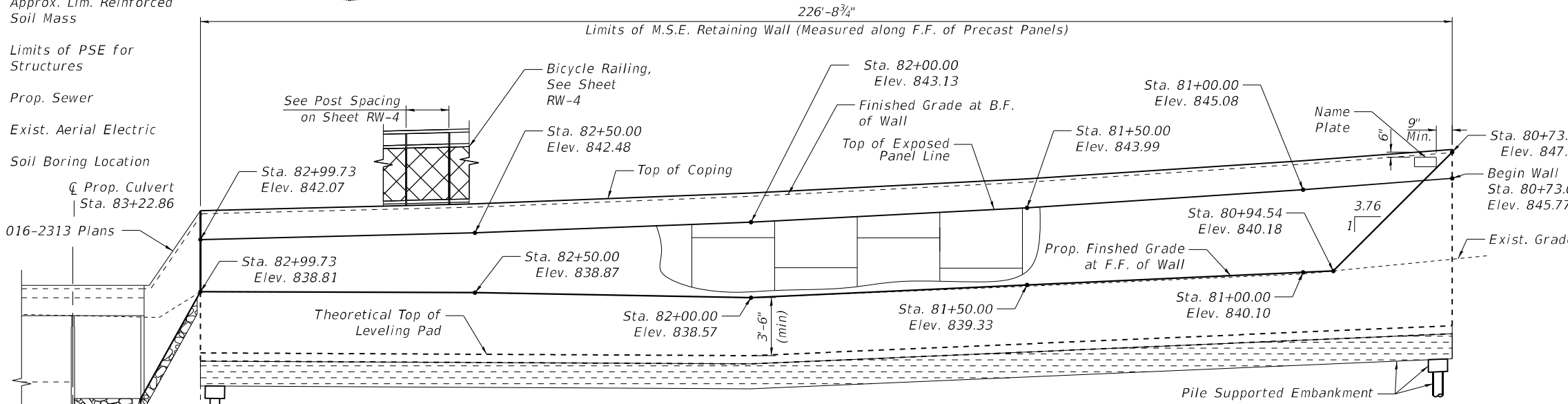
WALL ELEVATIONS TABLE

Station	Offset	Elev. A	Elev. B	Elev. C	Elev. D	Elev. E	Elev. F
80+73.00	51'-3"	847.52	845.77	847.35	836.88	840.89	847.35
80+94.54	51'-3"	846.97	845.22	840.18	836.58	840.18	846.80
81+00.00	51'-3"	846.83	845.08	840.10	836.50	840.00	846.66
81+50.00	51'-3"	845.74	843.99	839.33	835.78	839.26	845.57
82+00.00	51'-3"	844.88	843.13	838.57	835.07	838.57	844.71
82+50.00	51'-3"	844.23	842.48	838.87	835.14	838.87	844.06
82+99.73	51'-3"	843.82	842.07	838.81	835.24	838.81	843.65

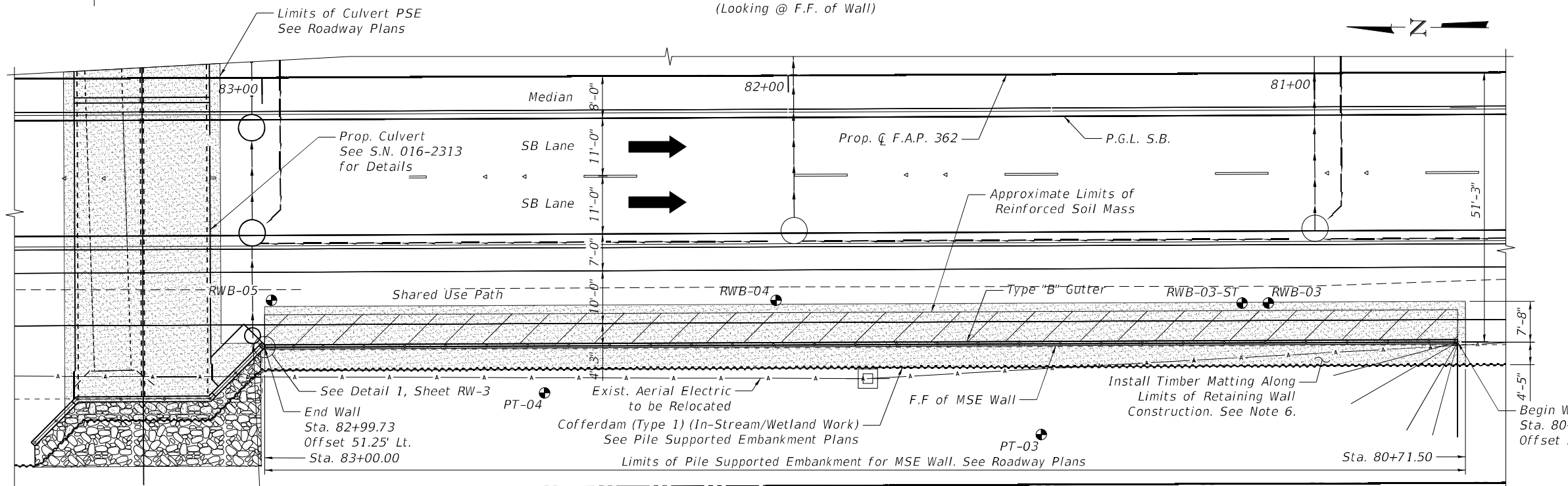
Elevation A - Top of coping
 Elevation B - Top of Exposed Panel Line
 Elevation C - Finished Grade at F.F. of Wall
 Elevation D - Theoretical Top of Leveling Pad (Max.)
 Elevation E - Existing Grade Line at F.F. of Wall
 Elevation F - Finished Grade at B.F. of Wall

NOTES

- Wall offsets are measured from the proposed ϕ of F.A.P. 362 to the front face of precast panels.
- Wall is built in conjunction with new culvert S.N. 016-2313.
- Horizontal Dimensions measured along front face of precast panels.
- Cast-in-place concrete and reinforcing steel, epoxy coated, required for coping and leveling pad will be included in payment for Mechanically Stabilized Earth Retaining Wall.
- Contractor shall coordinate MSE retaining wall construction with culvert construction and installation of Pile Supported Embankment system. Installation procedures may be affected by existing conditions. It is the Contractor's responsibility to determine the most cost-effective method of construction and include all items necessary for the proper and safe execution of the work.
- Material, limits of installation, and removal time frame for timber matting shall be as approved by the Engineer. The cost for timber matting material, installation, and removal shall be included in the cost of Cofferdam (Type 1) (In-stream/Wetland Work).
- See sheets RW-6 through RW-8 for boring logs.
- For timber matting and Type B Gutter details see Roadway Plans. For Cofferdam and Pile Supported Embankment details see Pile Supported Embankment Plans.



ELEVATION
 (Looking @ F.F. of Wall)



PLAN

DESIGN STRESSES

(FIELD UNITS)
 $f'c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 (PRECAST UNITS)
 $f'c = 4,500$ psi (Precast Panels)

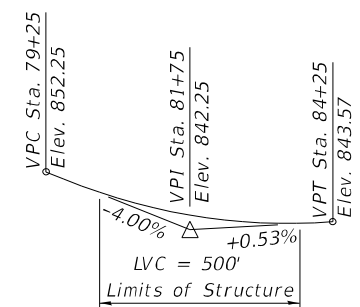
DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition AASHTO Pedestrian Loading HL-93

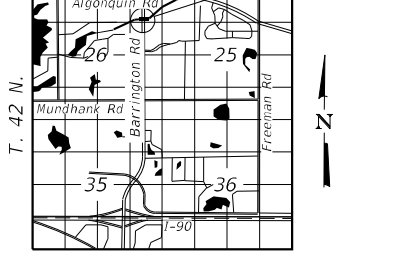
LOADING

PROFILE GRADE

N.B. & S.B. P.G.L. Barrington Road



LOCATION SKETCH



GENERAL PLAN & ELEVATION BARRINGTON ROAD

F.A.P. 362 - SEC. 2019-161-W
 COOK COUNTY
 STA. 80+73.00 TO STA 82+99.73
 STRUCTURE NO. 016-W2509

MODEL: MSE WALL.GPJ FILE NAME: p:\projects\101-2019-161-W\Documents\Projects_2020\CAD\101-2019-161-W\Sheet\02-Structural\Sheet\016-K33-MSE Wall.GPJ



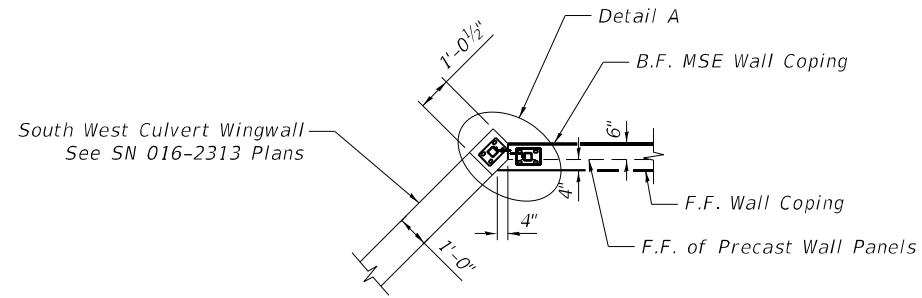
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PLOT DATE = 2/3/2026	CHECKED - STB	REVISED -
	DATE - 02/02/2026	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

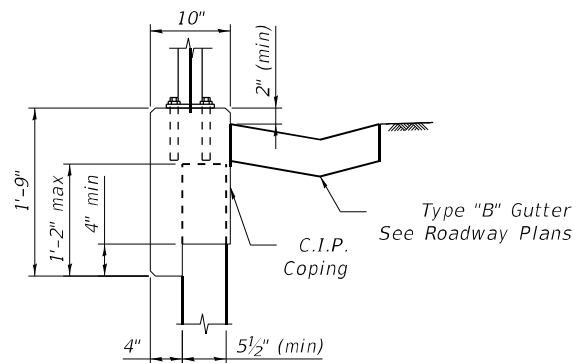
GENERAL PLAN & ELEVATION STRUCTURE NO. 016-W2509

SCALE: 1" = 12' SHEET RW-1 OF RW-7 SHEETS STA. TO STA.

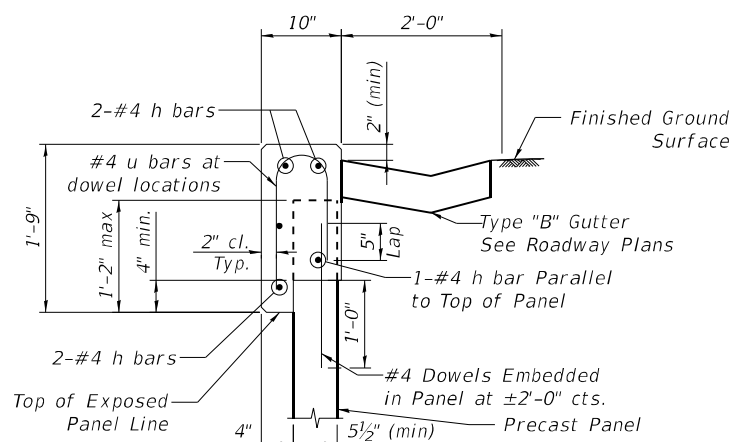
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	325
CONTRACT NO. 62K33			ILLINOIS FED. AID PROJECT	



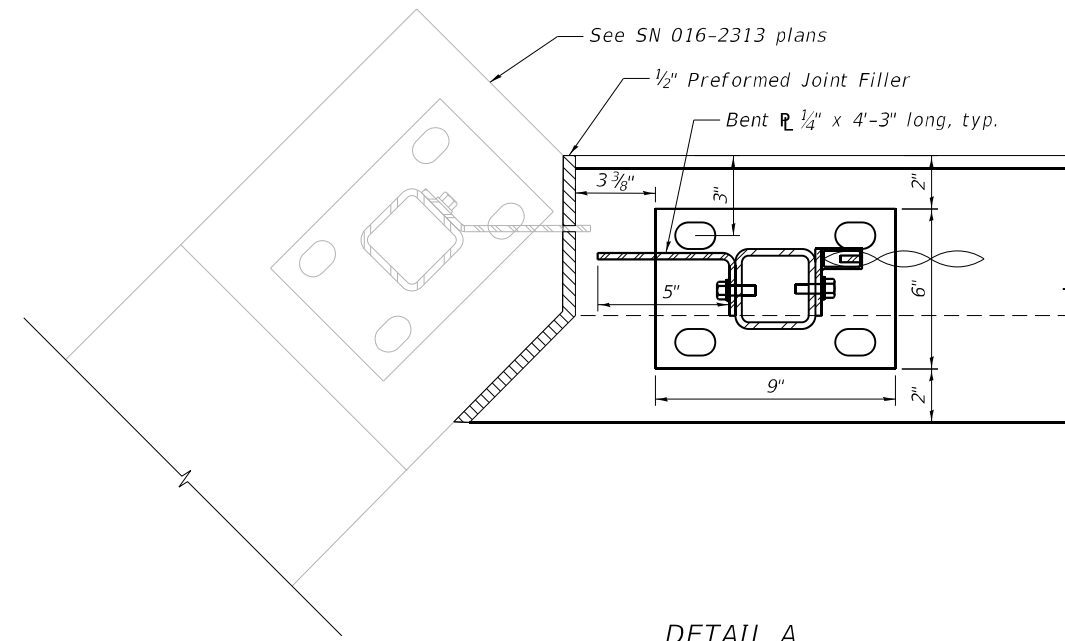
DETAIL 1
(See Sheet RW-1)



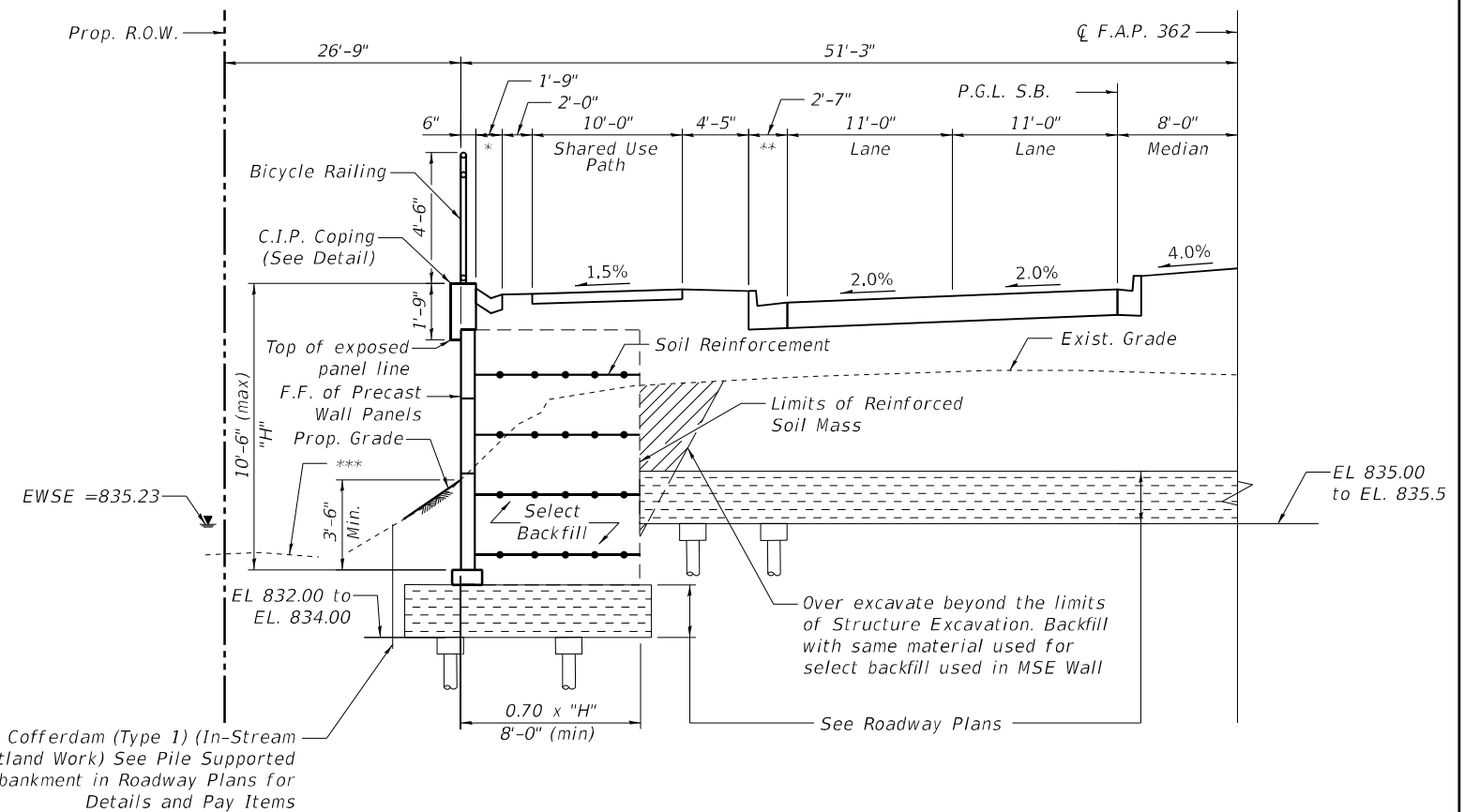
C.I.P. COPING DETAIL



C.I.P. COPING REINFORCEMENT



DETAIL A
For typical plate and tubing dimensions not shown, see Sheet RW-5



TYPICAL WALL SECTION

* Type "B" Gutter (Std. 606201)
** Combination Concrete Curb and Gutter, Type B-6.24
*** Provide Timber Matting, See Sheet RW-1

MODEL: MSE (MSE) Details; FILE NAME: p:\projects\2019\2019-161-W\Drawings\Structural\Sheet\016-K33-MSE Wall Section & Details



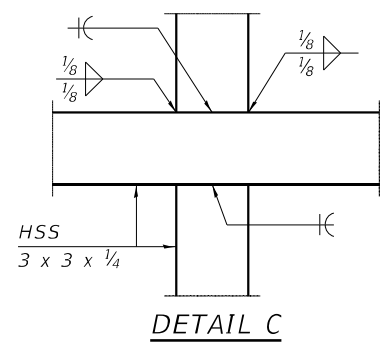
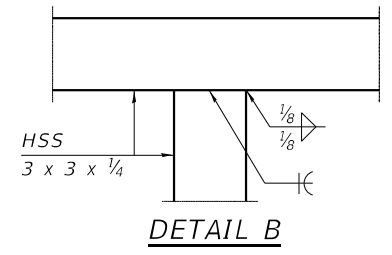
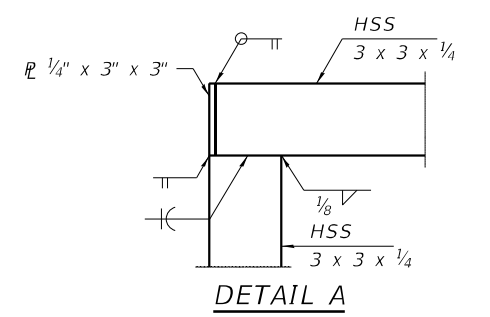
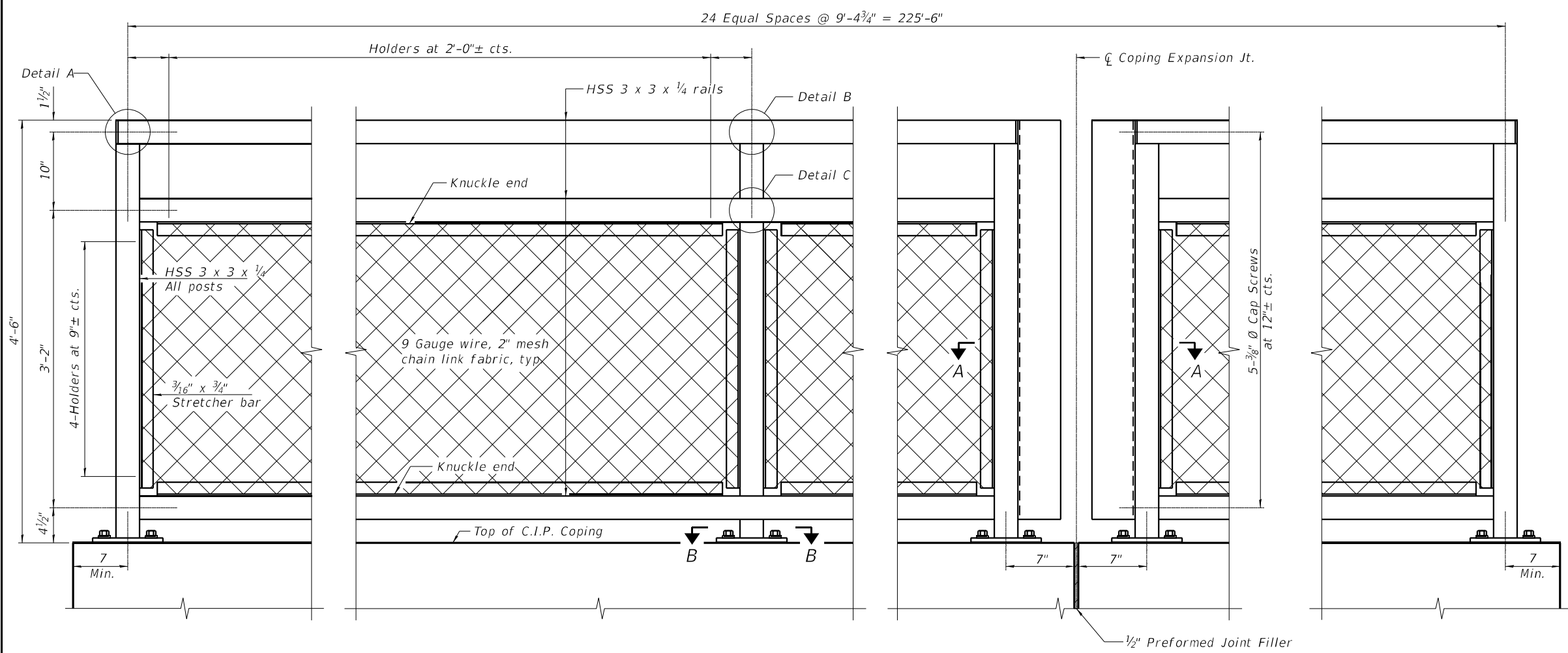
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PLOT DATE = 2/3/2026	CHECKED - STB	REVISED -
	DATE - 02/02/2026	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

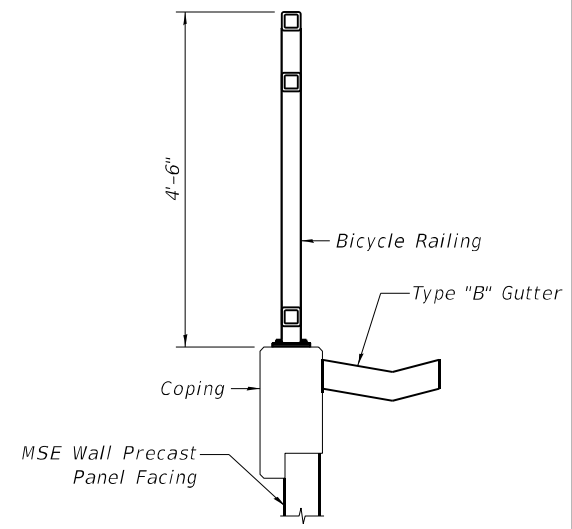
**SECTION & DETAILS
STRUCTURE NO. 016-W2509**

SCALE: 1" = 12' SHEET RW-3 OF RW-7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	327
CONTRACT NO. 62K33				
ILLINOIS FED. AID PROJECT				



ELEVATION BICYCLE RAILING
(Inside face)



Notes:
Coping concrete and reinforcement, and precast wall facing panels shall be paid for as Mechanically Stabilized Earth Retaining Wall.

RAILING CRITERIA

MASH 2016 Test Level	4
Bicycle Railing Weight (plf)	50
Max Post Spacing	9'-4 ³ / ₄ "

MODEL: Railing Details - 1 of 2
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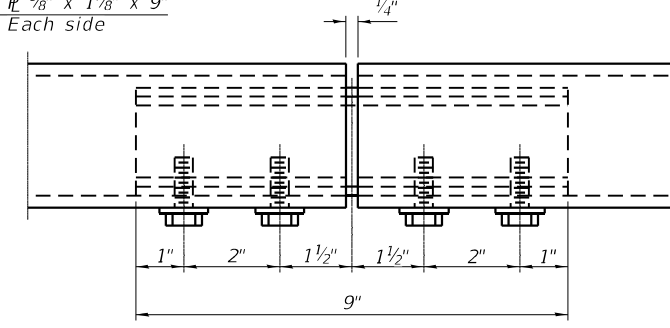
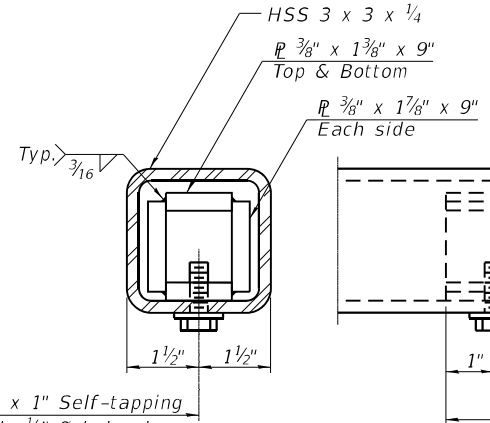
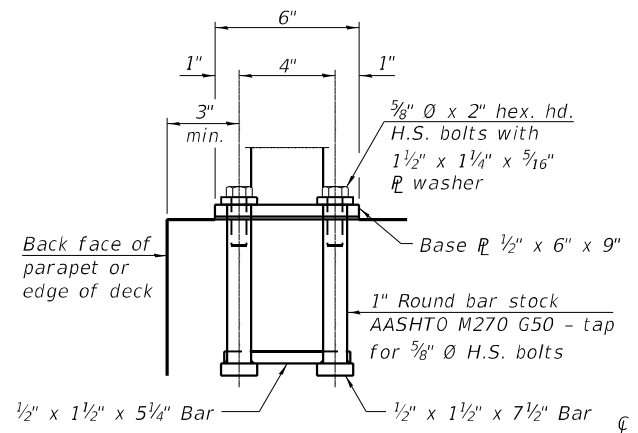
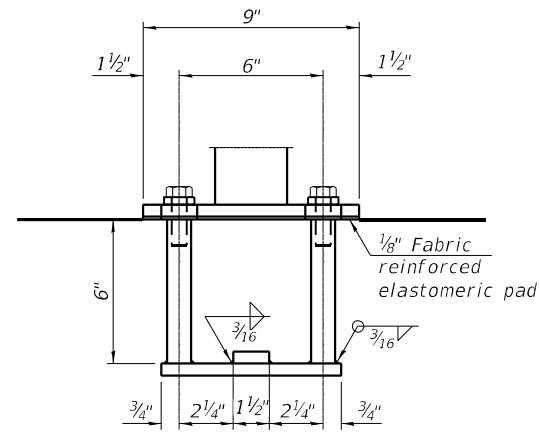


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PLOT DATE = 2/3/2026	CHECKED - STB	REVISED -
	DATE - 02/02/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RAILING DETAILS 1	
STRUCTURE NO. 016-W2509	
SCALE:	SHEET RW-4 OF RW-7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	328
CONTRACT NO. 62K33			ILLINOIS FED. AID PROJECT	



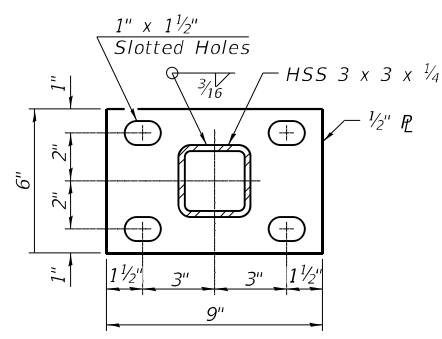
ANCHORAGE ASSEMBLY

The Bicycle Railing fasteners for end posts near expansion joints may need to be installed prior to installing the bent plates. In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" fully threaded anchor rods with the same plate washers as specified above and heavy hex lock nuts according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

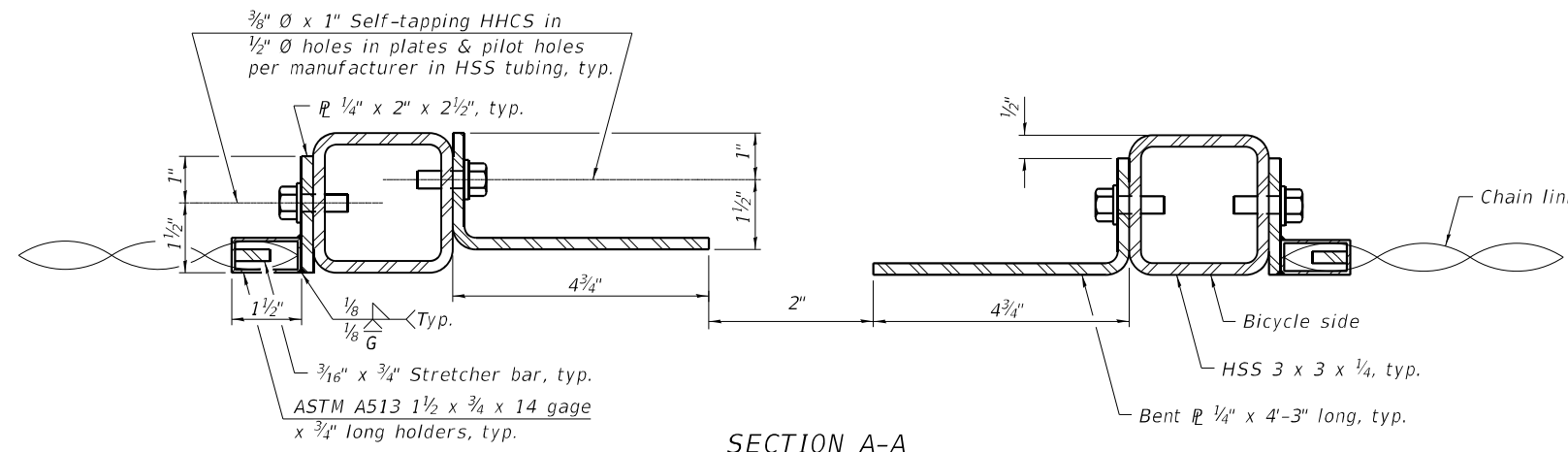
3/8" Ø x 1" Self-tapping HHCS in 1/2" Ø holes in HSS tubing and pilot holes per manufacturer in plates

MATERIAL SPLICE

Notes:
 Place reinforcement bars to miss anchor rod locations.
 CVN testing is not required for the HSS tubing used in the Bicycle Railing.
 All HSS tubing used for the Bicycle Railing shall be ASTM A500 grade C.
 All base plates used for the Bicycle Railing shall be AASHTO M270 grade 50.
 All heavy hex nuts shall be according to ASTM A 563 grade DH.
 All fully threaded anchor rods shall be ASTM F1554 grade 105.
 The post base plate shall be fastened to the coping snug tight and given an additional 1/8" turn.
 Contractor shall offset posts to miss any aluminum sheet or cork joints for sufficient installation of the anchorage assembly.
 Rail splice inserts may be built out of bent plates of the same thicknesses and outside geometry limits as the 4 plate rail splice inserts shown.
 When the contract specifies a galvanized railing, all steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications. When the contract specifies a painted railing, all posts, rail, splices, anchor devices and plates of the railing shall be painted according to the paint system for railings as specified in the General Notes.
 See sheet RW-2 of RW-8 for dimensions of concrete openings at expansion joints.



SECTION B-B



SECTION A-A

BILL OF MATERIAL

Item	Unit	Quantity
Bicycle Railing	Foot	227

MODEL: Railing Details 2 of 2
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PLOT DATE = 2/3/2026	CHECKED - STB	REVISED -
	DATE - 02/02/2026	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**RAILING DETAILS 2
 STRUCTURE NO. 016-W2509**

SCALE: SHEET RW-5 OF RW-7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	329
CONTRACT NO. 62K33			ILLINOIS FED. AID PROJECT	

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 Fax: 630-953-9938

BORING LOG PT-03
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd.**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 836.08 ft
 North: 1976092.45 ft
 East: 1036370.94 ft
 Station: 81+52.21
 Offset: 68.46 LT

Page 1 of 1

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample Type	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample Type	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)
835.8	Very soft, gray Organic SILTY CLAY, trace gravel; moist	1		PUSH		0.25	80								
834.6	Black LOAM to SANDY LOAM, trace gravel and organic matter; moist	2		PUSH		0.25	174								
	Very soft, black Organic SILTY CLAY LOAM; moist	3		PUSH		0.25	595								
831.1	Very soft, black PEAT; wet	4		PUSH		0.25	590								
830.3	Black Organic SILT; wet	5		PUSH		NP	277								
829.8	Very soft, brown and black PEAT, some methane odor; moist	6		PUSH		NP	168								
	Gray, black and brown Organic SILT; wet to saturated -alternating beds of sand and silt seams -silty clay seams-	7		PUSH		NP	125								
822.4	Gray, medium SAND, trace gravel; saturated	8		PUSH		0.50	20								
820.9	Medium stiff to stiff, gray SILTY CLAY, trace gravel; moist	9		PUSH		0.50	20								
		10		PUSH		1.50	19								
816.1	Boring terminated at 20.00 ft	20													

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	06-28-2022	Complete Drilling	06-28-2022
Drilling Contractor	Wang Testing Services	Drill Rig	Geoprobe HA
Driller	KS&PH	Logger	A. Scifers
Checked by	C. Marin	At Completion of Drilling	7.75 ft
Drilling Method	1" ID HSA; Boring backfilled upon completion	Time After Drilling	NA
		Depth to Water	NA
		The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.	

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 Fax: 630-953-9938

BORING LOG PT-04
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd.**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 836.05 ft
 North: 1976186.85 ft
 East: 1036378.86 ft
 Station: 82+46.58
 Offset: 60.13 LT

Page 1 of 1

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample Type	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample Type	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)
	Gray CLAY to SILTY CLAY, trace organic matter; moist	1		PUSH		NA	44								
834.8	Black to dark brown PEAT; moist	2		PUSH		NP	137								
		3		PUSH		NP	535								
		4		PUSH		NP	292								
829.5	Brown and gray ORGANIC SILT, few sand seams; moist	5		PUSH		NP	103								
826.8	Gray SAND, trace gravel; moist to saturated	6		PUSH		NP	49								
		7		PUSH		0.50	23								
823.2	Medium stiff to very stiff, gray SILTY CLAY, trace gravel; moist	8		PUSH		2.00	19								
		9		PUSH		1.50	16								
		10		PUSH		3.00	19								
816.1	Boring terminated at 20.00 ft	20													

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	07-05-2022	Complete Drilling	07-05-2022
Drilling Contractor	Wang Testing Services	Drill Rig	Geoprobe HA
Driller	AG&TC	Logger	A. Scifers
Checked by	C. Marin	At Completion of Drilling	0.00 ft
Drilling Method	1" ID HSA; Boring backfilled upon completion	Time After Drilling	NA
		Depth to Water	NA
		The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.	

Wang Engineering
 wangeng@wangeng.com
 1145 N. Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG RWB-03
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd.**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 843.68 ft
 North: 1976044.28 ft
 East: 1036395.93 ft
 Station: 81+03.93
 Offset: 43.67 LT

Page 1 of 1

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample Type	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample Type	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)
843.2	6-inch thick, brown SANDY LOAM, trace gravel	1		PUSH		2.46	19								
	Medium stiff to very stiff, gray CLAY LOAM to SILTY CLAY, trace gravel; moist	2		PUSH		0.82	21								
		3		PUSH		1.23	22								
		4		PUSH		1.23	25								
		5		PUSH		0.49	33								
833.2	Soft, gray SILTY CLAY, trace gravel; moist	6		PUSH		1.00	154								
830.7	Stiff, gray Organic SILTY CLAY; moist	7		PUSH		0.98	150								
829.4	Very soft (<0.25P), black PEAT; moist	8		PUSH		0.33	43								
827.7	Very soft to medium stiff, dark gray to gray Organic SILTY CLAY, few peat lenses; moist	9		PUSH											
		10		PUSH											
813.7	Boring terminated at 30.00 ft	30													

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	02-08-2022	Complete Drilling	02-08-2022
Drilling Contractor	Wang Testing Services	Drill Rig	21D50A [84%]
Driller	KS&AP	Logger	A. Scifers
Checked by	C. Marin	At Completion of Drilling	1.00 ft
Drilling Method	2.25" ID HSA; Boring backfilled upon completion	Time After Drilling	NA
		Depth to Water	NA
		The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.	

MODEL: MSE 1
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 WANGENGINEG 162K33-SPT-Soil Borings_GDT 7/17/24



USER NAME	= MazenSyed	DESIGNED	- JPK	REVISED	-
PLOT SCALE	= 39.9999920' / in.	DRAWN	- JPK	REVISED	-
PLOT DATE	= 2/3/2026	CHECKED	- STB	REVISED	-
		DATE	- 02/02/2026	REVISED	-

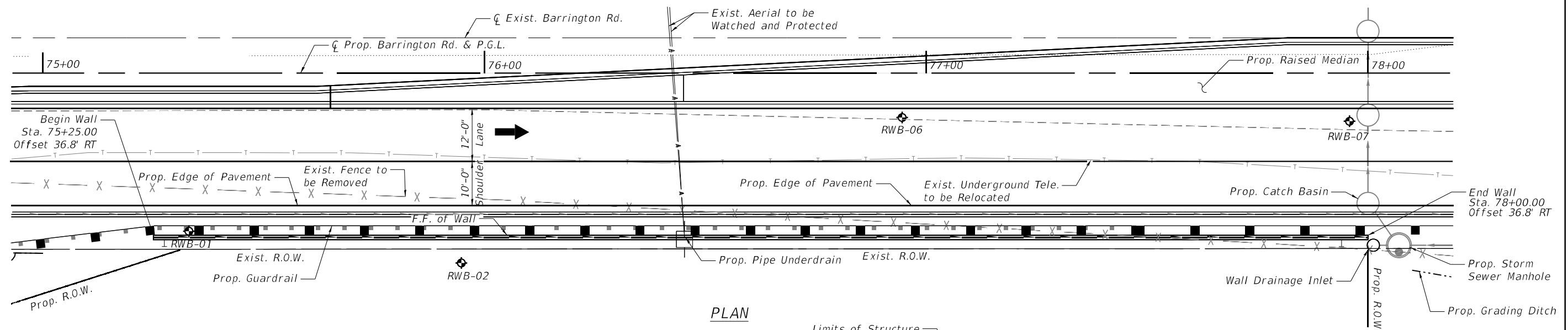
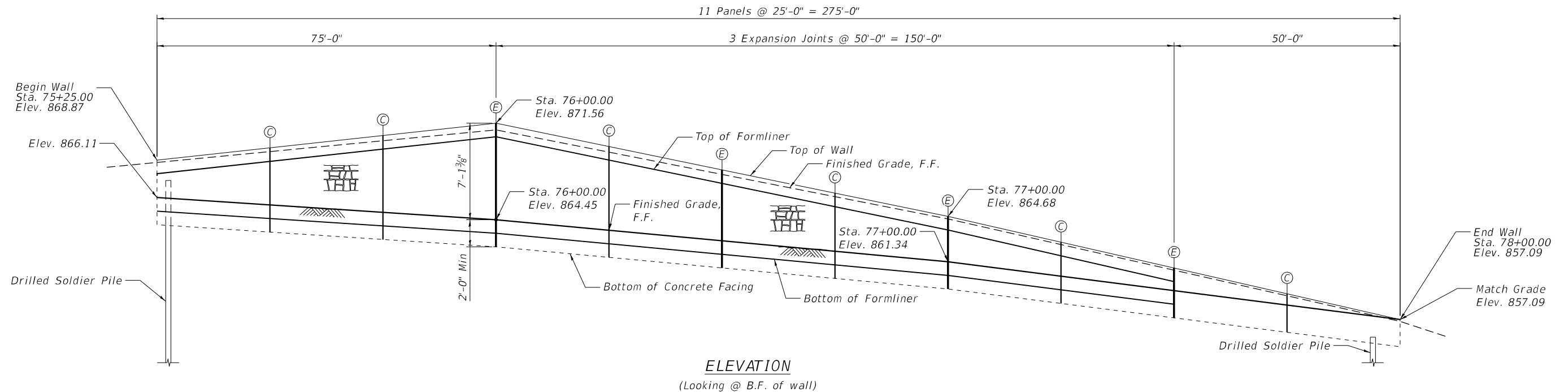
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SOIL BORING LOGS SHEET 1 OF 2
 STRUCTURE NO. 016-W2509**

SCALE: SHEET RW-6 OF RW-7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	330
CONTRACT NO. 62K33				
ILLINOIS FED. AID PROJECT				

Bench Mark: Mag Nail in S. Edge of Pavement at Covered Bridge Road & Barrington Road. STA 83+42.52, 10' LT. Elev. 841.48
 Exist. Structure: None
 Salvage: None

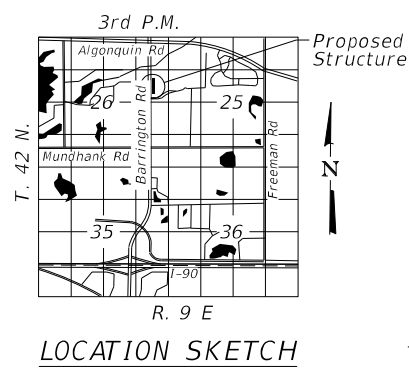
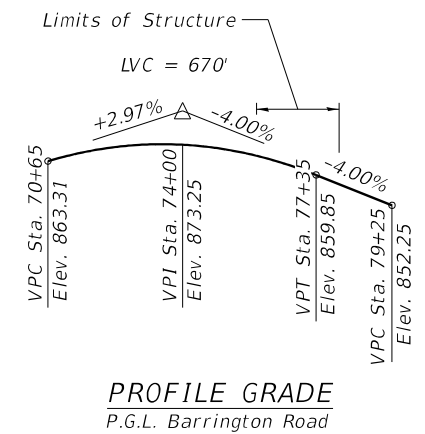


- LEGEND**
- HP Pile
 - Construction Joint
 - Expansion Joint
 - Sewer Structure
 - Soil Boring
 - Exist. Aerial Power Lines
 - Exist. Underground Tele.
 - Prop. Storm Sewer
 - Prop. Guardrail

DESIGN SPECIFICATIONS
 2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

DESIGN STRESSES
 (FIELD UNITS)
 f'c = 3,500 psi
 fy = 60,000 psi (Reinforcement)
 fy = 50,000 psi (M270 Grade 50)
 fb = 1,600 psi (Untreated Timber Lagging)

NOTE:
 1. Wall offsets are measured from the \bar{C} Barrington Rd. to the front face of concrete wall facing.



GENERAL PLAN & ELEVATION
 ALONG BARRINGTON ROAD
 F.A.P. 362 - SEC. 2019-161-W
 COOK COUNTY
 STA. 75+25.00 TO STA 78+00.00
 STRUCTURE NO. 016-Z066

MODEL: Wall 1_GPE
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USER NAME = MazenSyed	DESIGNED - MS	REVISED -
PLOT SCALE = 0.08333317 1/ in.	DRAWN - MS	REVISED -
PLOT DATE = 2/3/2026	CHECKED - STB	REVISED -
	DATE - 02/02/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 016-Z066

SCALE: 1" = 12' SHEET WA-1 OF WA-8 SHEETS STA. TO STA.

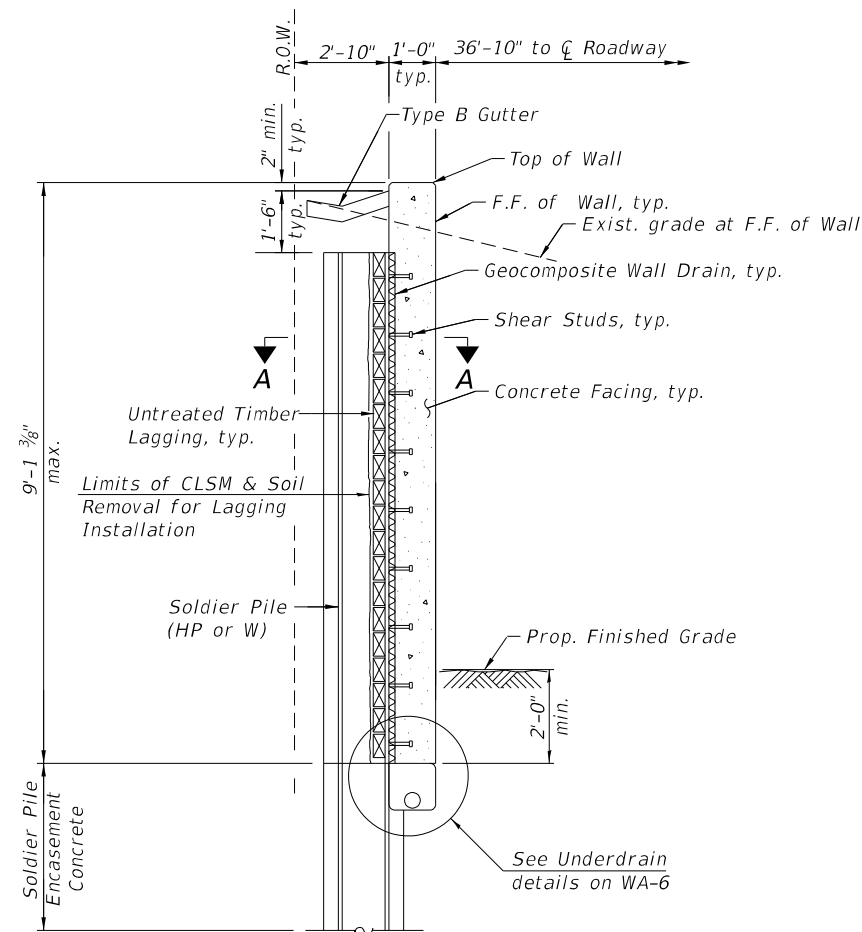
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	332
CONTRACT NO. 62K33				
ILLINOIS FED. AID PROJECT				

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yd.	167
Concrete Structures	Cu. Yd.	58.3
Form Liner Textured surface	Sq. Ft.	988
Protective Coat	Sq. Yd.	150
Stud Shear Connectors	Each	483
Reinforcement Bars Epoxy Coated	Pound	7910
Name Plates	Each	1
Furnishing Soldier Piles (HP Section)	Foot	116
Furnishing Soldier Piles (W Section)	Foot	468
Drilling and setting Soldier Piles (In Soil)	Cu. Ft.	1004
Untreated Timber Lagging	Sq. Ft.	1536
Geocomposite Wall Drain	Sq. Yd.	125
Pipe Underdrains for Structures 4"	Foot	275

GENERAL NOTES

- Reinforcement bars designated (E) shall be epoxy coated.
- The Contractor is responsible for the design and performance of the lagging using no less than a 3 inch nominal rough-sawn thickness and timber with a minimum allowable bending stress of 1,000 psi.
- No construction joints except those shown on the plans shall be allowed unless approved by the Engineer.
- It shall be the Contractor's responsibility to verify the location of all utilities prior to starting construction. Contact J.U.L.I.E, 800-892-0123.
- Protective coat shall be applied to the front face and top of concrete facing to a distance of 1'-0" below finished grade.
- No field welding is permitted except as specified in the contract documents.



TYPICAL SECTION THRU SOLDIER PILE WALL

STATION 75+25.00
Build 20__ BY
STATE OF ILLINOIS
F.A.I. RT. 362
SEC. (2019-161-W)
LOADING HL-93
STR. NO. 016-Z066

NAME PLATE

INDEX OF SHEETS

WA-1	Plan and Elevation
WA-2	General Notes and Bill of Materials
WA-3	Soldier Pile Layout
WA-4	Soldier Pile Schedule
WA-5	Concrete Facing Details
WA-6	Typical Sections & Details
WA-7	Soil Boring Logs Sheet 1 of 2
WA-8	Soil Boring Logs Sheet 2 of 2

LIST OF ABBREVIATIONS

B	Baseline	B.F.	Back Face
cl.	Centerline	cl.	Clearance
const.	Construction	∅	Diameter
conc.	Concrete	elev.	Elevation
cts.	Centers	long.	Longitudinal
E.F.	Each Face	min.	Minimum
exist.	Existing	O.F.	Outside Face
F.F.	Front Face	prop.	Proposed
jt.	Joint	R.O.W.	Right of Way
LT	Left	RT	Right
max.	Maximum	rte.	Route
no.	Number	RET.	Retaining Wall
PG	Profile Grade	spa.	Spaces
P.G.L.	Profile Grade Line	sta.	Station
Req'd.	Required	struct.	Structure
sect.	Section	PL	Plate
spec.	Specification	o.c.	On Center
std.	Standard	U.N.O.	Unless Noted Otherwise
typ.	Typical		

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DRAWN - NMB	REVISIONS -	
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PLOT DATE = 02/02/2026	DATE - 02/02/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES AND BILL OF MATERIALS
STRUCTURE NO. 016-Z066

SCALE: SHEET WA-2 OF WA-8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	333
CONTRACT NO. 62K33				
ILLINOIS FED. AID PROJECT				

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Pile Number	Pile Size	Station at F.F. of Wall	Offset at F.F. of Wall	Top of Pile Elev.	Bottom of CIP Facing	Pile Tip Elev.	Length of Pile (ft)	No. of Shear Studs
1	W16x89	75+29.25	36.80	867.36	863.76	841.36	26.0	14
2	W16x89	75+38.75	36.80	867.70	863.59	841.70	26.0	16
3	W16x89	75+48.25	36.80	868.04	863.41	842.04	26.0	18
4	W16x89	75+57.75	36.80	868.38	863.23	842.38	26.0	20
5	W16x89	75+67.25	36.80	868.72	863.06	842.72	26.0	22
6	W16x89	75+76.75	36.80	869.06	862.88	843.06	26.0	24
7	W16x89	75+86.25	36.80	869.40	862.70	843.40	26.0	26
8	W16x89	75+95.75	36.80	869.74	862.53	843.74	26.0	28
9	W16x89	76+03.50	36.80	869.65	862.34	843.65	26.0	28
10	W16x89	76+13.50	36.80	868.96	862.03	842.96	26.0	26
11	W16x89	76+23.50	36.80	868.28	861.72	842.28	26.0	26
12	W16x89	76+33.50	36.80	867.59	861.41	841.59	26.0	24
13	W16x89	76+43.50	36.80	866.90	861.10	840.90	26.0	22
14	W16x89	76+53.50	36.80	866.21	860.79	840.21	26.0	20
15	W16x89	76+63.50	36.80	865.52	860.48	839.52	26.0	20
16	W16x89	76+73.50	36.80	864.84	860.16	838.84	26.0	18
17	W16x89	76+84.50	36.80	864.08	859.82	838.08	26.0	16
18	W16x89	76+95.50	36.80	863.32	859.48	837.32	26.0	14
19	HP12x53	77+06.50	36.80	862.52	859.06	846.02	16.5	12
20	HP12x53	77+19.00	36.80	861.57	858.53	845.07	16.5	12
21	HP12x53	77+31.50	36.80	860.62	858.00	844.12	16.5	10
22	HP12x53	77+44.00	36.80	859.67	857.47	843.17	16.5	8
23	HP12x53	77+56.50	36.80	858.72	856.94	842.22	16.5	6
24	HP12x53	77+69.00	36.80	857.78	856.41	841.28	16.5	4
25	HP12x53	77+81.50	36.80	856.83	855.83	840.33	16.5	4
26	HP12x53	77+94.00	36.80	855.88	854.88	839.38	16.5	4



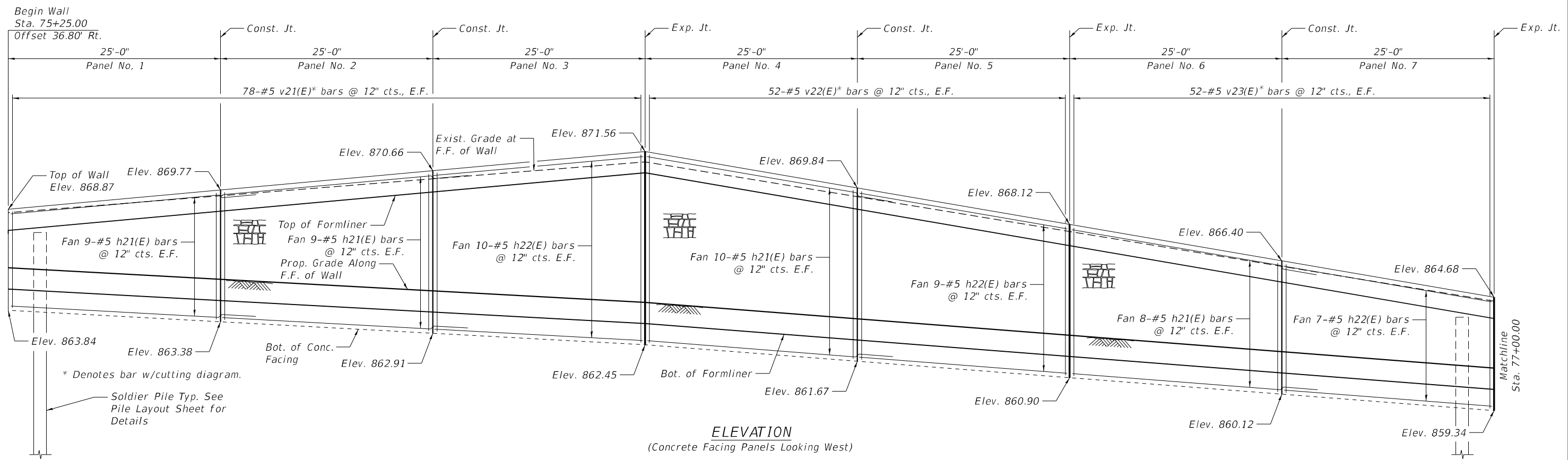
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PLOT DATE	= 2/3/2026	DATE	- 02/02/2026	REVISED	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

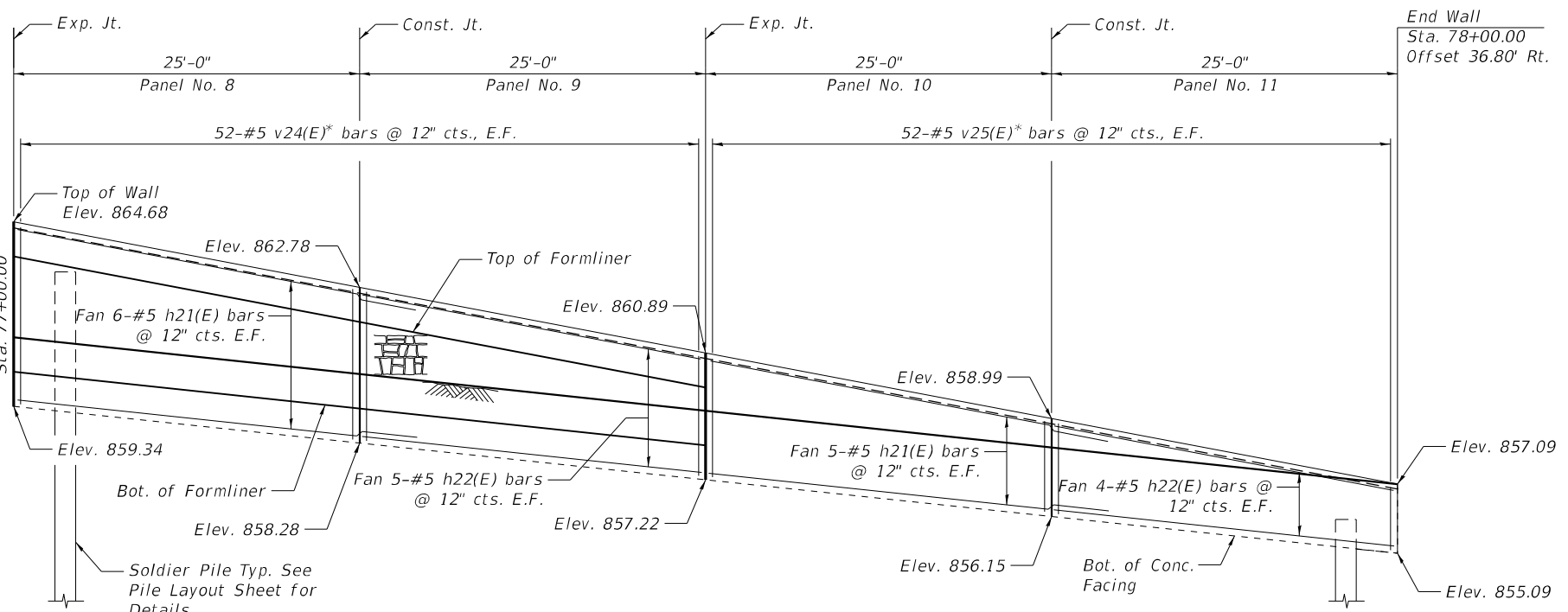
**SOLDIER PILE SCHEDULE
 STRUCTURE NO. 016-Z066**

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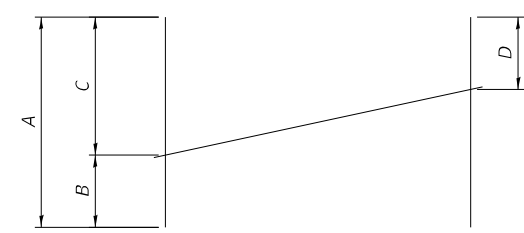
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	335
			CONTRACT NO. 62K33	
		ILLINOIS	FED. AID PROJECT	



ELEVATION
(Concrete Facing Panels Looking West)



ELEVATION
(Concrete Facing Panels Looking West)



FIELD CUTTING DIAGRAM
Order bars full length and cut as shown

Bar	A	B	C	D
v21(E)	13'-6"	4'-8"	8'-9"	4'-8"
v22(E)	15'-7"	6'-10"	8'-9"	6'-10"
v23(E)	11'-10"	5'-0"	6'-10"	5'-0"
v24(E)	8'-4"	3'-4"	5'-0"	3'-4"
v25(E)	5'-0"	1'-8"	3'-4"	1'-8"

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h21(E)	94	#5	28'-7"	—
h22(E)	70	#5	24'-8"	—
v21(E)	78	#5	13'-6"	—
v22(E)	52	#5	15'-7"	—
v23(E)	52	#5	11'-10"	—
v24(E)	52	#5	8'-4"	—
v25(E)	52	#5	5'-0"	—
Concrete Structures			Cu. Yd.	58.3
Reinforcement Bars, Epoxy Coated			Pound	7910

Min. bar lap:
#5 bars = 3'-7"

NOTES:

1. Reinforcement Bars designated (E) shall be epoxy coated.
2. Bars indicated thus 6x3-#5 etc. indicates 6 lines of bars with 3 lengths per line.
3. See Sheets SB-01 through SB-19 for boring logs.

MODEL: UnitRev: Sheet
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PLOT DATE = 2/3/2026	CHECKED - STB	REVISED -
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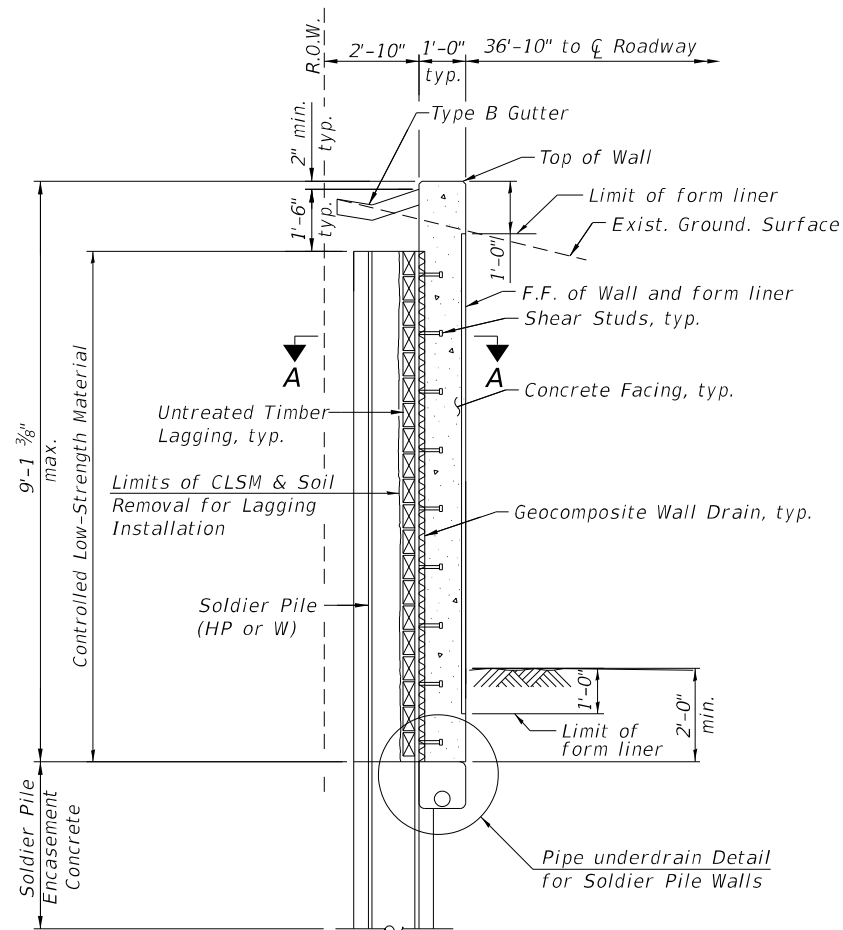
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE FACING DETAILS
STRUCTURE NO. 016-2066

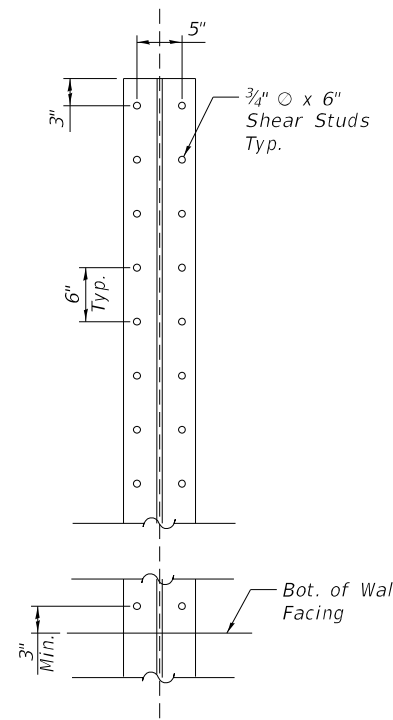
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	336
CONTRACT NO. 62K33			ILLINOIS FED. AID PROJECT	

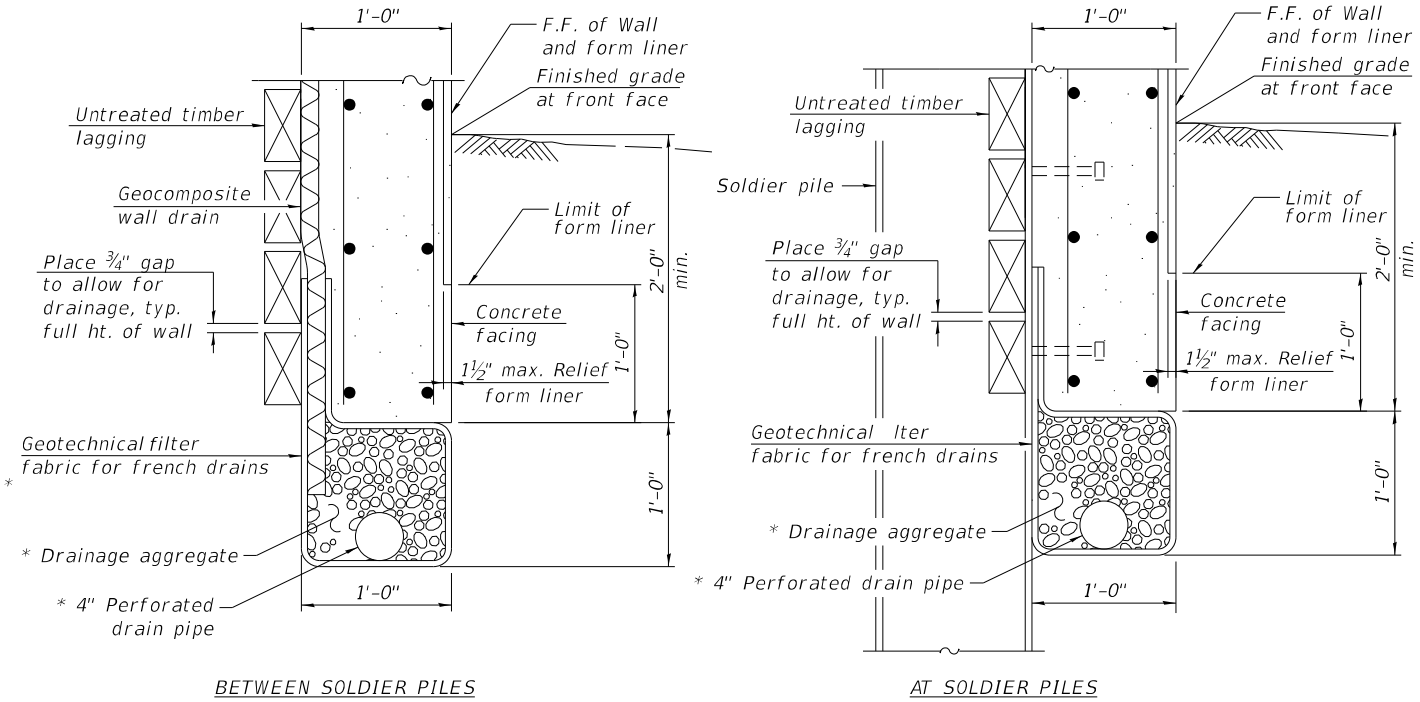
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SECTION THRU SOLDIER PILE WALL

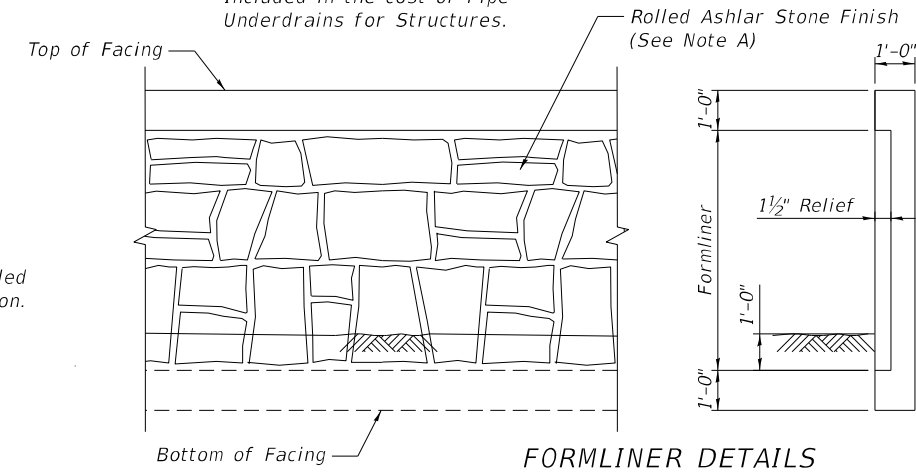


SHEAR STUD DETAIL



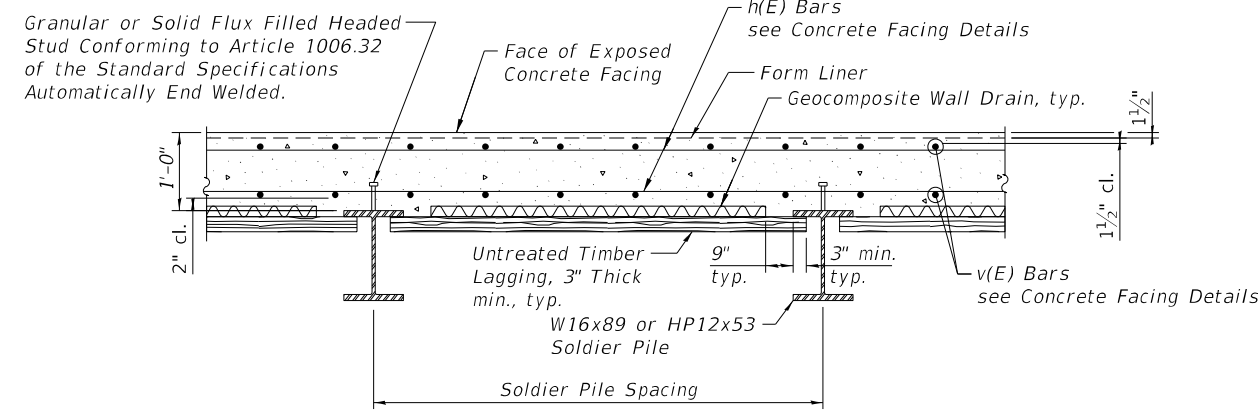
UNDERDRAIN DETAILS FOR SOLDIER PILE WALLS

Included in the cost of Pipe Underdrains for Structures.

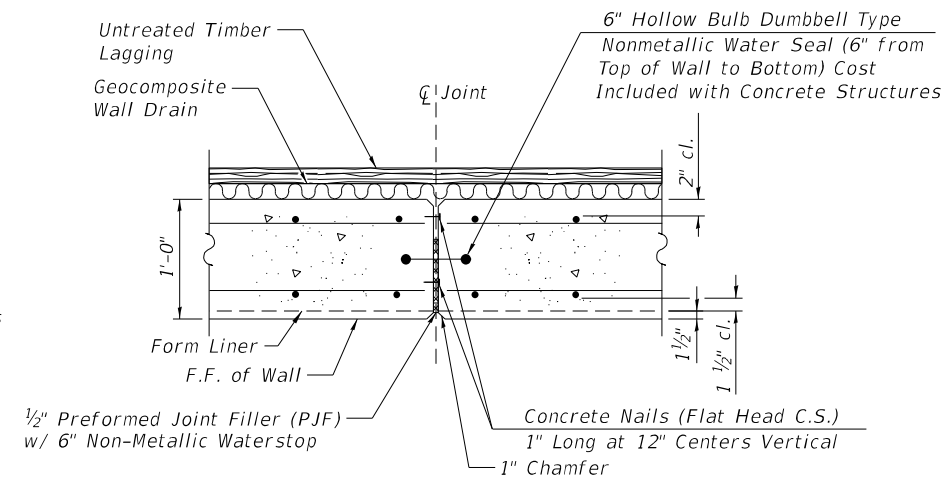


FORMLINER DETAILS

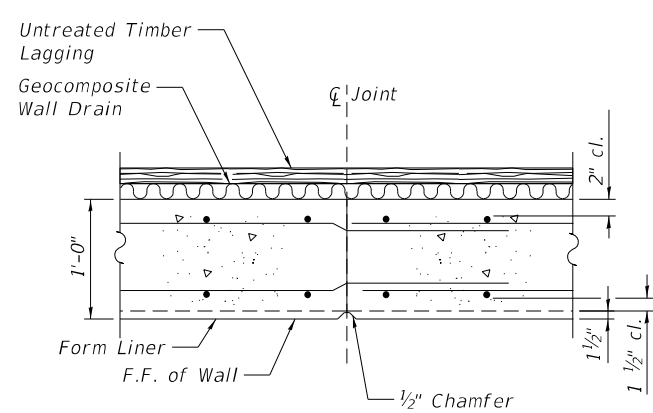
Note A:
The Form Liner Pattern shall have a rolled Ashlar Stone Finish with a 1 1/2" impression.



SECTION A-A



EXPANSION JOINT DETAIL



CONSTRUCTION JOINT DETAIL



USER NAME = MazenSyed	DESIGNED - NMB	REVISED -
PLOT SCALE = 0.08333317 1/16"	DRAWN - NMB	REVISED -
PLOT DATE = 2/3/2026	CHECKED - STB	REVISED -
	DATE - 02/02/2026	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS AND DETAILS STRUCTURE NO. 016-2066

SCALE: 1" = 12' SHEET WA-6 OF WA-8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	337
CONTRACT NO. 62K33				
ILLINOIS FED. AID PROJECT				

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 wangeng@wangeng.com
 1145 N. Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG RWB-01
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 868.93 ft
 North: 1975473.74 ft
 East: 1036477.91 ft
 Station: 75+33.04
 Offset: 35.82 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Qu (tsf)	Moisture Content (%)
868.1	10-inch thick organic SILTY CLAY --TOPSOIL-- Very stiff to hard, brown to gray SILTY CLAY to SILTY CLAY LOAM, trace gravel; damp --RDR 2-- --trace organic matter--	1	4	4	2.54	19							
		2	4	7	4.92	15							
		3	7	11	7.54	15							
	--RDR 2 to 3-- --coarse gravel--	4	10	10	4.25	15							
		5	7	10	5.33	16							
		6	5	6	3.69	17							
	--L _c (%)=31, P _c (%)=15-- --%Gravel=6.8-- --%Sand=10.3-- --%Silt=52.7-- --%Clay=30.2-- --A-6 (12)--	7	4	4	2.71	18							
		8	4	4	2.75	15							

Boring terminated at 20.00 ft

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	03-08-2022	Complete Drilling	03-08-2022
Drilling Contractor	Wang Testing Services	Drill Rig	21GeoA[96%]
Driller	A&C	Logger	M. Sadowski
Checked by	C. Marin	Drilling Method	3.25" ID HSA; Boring backfilled upon completion
While Drilling	▼ Dry	At Completion of Drilling	▼ Dry
Time After Drilling	NA	Depth to Water	▼ NA

Wang Engineering
 wangeng@wangeng.com
 1145 N. Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG RWB-02
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 871.15 ft
 North: 1975535.46 ft
 East: 1036484.81 ft
 Station: 75+49.73
 Offset: 43.00 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Qu (tsf)	Moisture Content (%)
870.2	11-inch thick SILTY CLAY --TOPSOIL-- Very stiff, brown and gray CLAY to SILTY CLAY, trace organic matter; damp --RDR 2--	1	2	2	3.25	22							
		2	4	9	5.00	17							
	Very stiff to hard, brown to gray SILTY CLAY to SILTY CLAY LOAM, trace to little gravel; damp --RDR 2--	3	17	12	4.50	13							
		4	7	10	7.30	16							
		5	5	10	8.04	15							
		6	16	8	6.31	16							
	--some rig chatter, 15 to 16 ft-- --possible coarse gravel or cobbles--	7	4	5	2.46	16							
		8	3	6	2.21	15							

Boring terminated at 20.00 ft

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	03-08-2022	Complete Drilling	03-08-2022
Drilling Contractor	Wang Testing Services	Drill Rig	21GeoA[96%]
Driller	A&C	Logger	M. Sadowski
Checked by	C. Marin	Drilling Method	3.25" ID HSA; Boring backfilled upon completion
While Drilling	▼ Dry	At Completion of Drilling	▼ Dry
Time After Drilling	NA	Depth to Water	▼ NA

Wang Engineering
 wangeng@wangeng.com
 1145 N. Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG RWB-06
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 861.65 ft
 North: 1975635.10 ft
 East: 1036451.45 ft
 Station: 76+94.52 R2
 Offset: 10.07 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Qu (tsf)	Moisture Content (%)
860.7	11-inch thick ASPHALT --PAVEMENT-- Hard, brown and gray SILTY CLAY, trace gravel; damp --FILL-- --RDR 2--	1	5	7	4.50	14							
		2	4	5	5.17	17							
	Very stiff to hard, brown to gray SILTY CLAY to SILTY CLAY LOAM, trace gravel; damp --RDR 2--	3	4	7	5.17	15							
		4	3	6	4.51	16							
		5	4	5	2.62	20							
	--L _c (%)=35, P _c (%)=17-- --%Gravel=2.2-- --%Sand=9.4-- --%Silt=53.0-- --%Clay=35.4-- --A-6 (15)--	6	5	5	3.44	18							
		7	8	8	NP	11							
	Medium dense, gray, gravelly SILTY LOAM; wet --RDR 2--	8	8	8	NP	9							

Boring terminated at 20.00 ft

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	05-08-2024	Complete Drilling	05-08-2024
Drilling Contractor	Wang Testing Services	Drill Rig	21GeoT[92%]
Driller	AG&TC	Logger	M. Rojo
Checked by	J. Bensen	Drilling Method	2.25" ID HSA; Boring backfilled upon completion
While Drilling	▼ 15.50 ft	At Completion of Drilling	▼ Dry
Time After Drilling	NA	Depth to Water	▼ NA

MODEL: Wall 1.1
 FILE NAME: pwr/ing-pwint01.e-transyscorp.com/transyscorp-pwr/Documents/Projects_2020/C1401401200018/CAD02 - Sheets/20-Structural/Sheets/Soil Borings/D162K33-SHT-Soil Borings_Culverts&MSE.dgn



USER NAME = MazenSyed	DESIGNED - JPK	REVISED -
PLOT SCALE = 19.999960' / in.	DRAWN - JPK	REVISED -
PLOT DATE = 2/3/2026	CHECKED - STB	REVISED -
	DATE - 02/02/2026	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SOIL BORING LOGS SHEET 1 OF 2
 STRUCTURE NO. 016-Z066**

SCALE: SHEET WA-7 OF WA-8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	338
CONTRACT NO. 62K33				
ILLINOIS FED. AID PROJECT				

Wang Engineering
 wangeng@wangeng.com
 1145 N. Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG RWB-07

Page 1 of 1

WEI Job No.: 1064-01-01

Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 856.85 ft
 North: 1975736.40 ft
 East: 1036451.88 ft
 Station: 77+95.81 R2
 Offset: 10.93 FT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/ft)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/ft)	Qu (tsf)	Moisture Content (%)
856.9	11-inch thick ASPHALT -PAVEMENT-														
855.9	1-inch thick GRAVEL -BASE COURSE-														
853.9	Very stiff, black and brown CLAY, trace gravel and organics; damp	1		3	3	2.50	25								
				6	6										
	Stiff to hard, brown to gray SILTY CLAY to SILTY CLAY LOAM, trace gravel; damp	2		4	4	7.38	18								
				6	6										
				10	10										
				4	4	6.97	18								
				7	7										
				10	10										
				8	8	2.50	15								
				9	9										
				13	13										
				5	5	3.69	17								
				9	9										
				6	6	4.76	18								
				7	7										
				10	10										
				5	5	1.80	18								
				6	6										
				7	7										
				3	3	1.80	18								
				6	6										
				7	7										
838.9		20													

Boring terminated at 20.00 ft

GENERAL NOTES

WATER LEVEL DATA

Begin Drilling: 05-08-2024 Complete Drilling: 05-08-2024
 Drilling Contractor: Wang Testing Services Drill Rig: 21GeoT[92%]
 Driller: AG&TC Logger: M. Rojo Checked by: J. Bensen
 Drilling Method: 2.25" ID HSA; Boring backfilled upon completion
 While Drilling: Dry
 At Completion of Drilling: Dry
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

MODEL: Wail 1.2
 FILE NAME: pww\log-pw\win01.e-a-transyscorp.com\transyscorp\pw\Documents\Projects_2020\C140\1401200018\CAD02 - Sheets\20-Structural\Sheets\Soil Borings\0162K33-SHT-Soil Borings_Culvert&MSE.dgn



USER NAME = MazenSyed
 PLOT SCALE = 19.999960' / in.
 PLOT DATE = 2/3/2026

DESIGNED - JPK
 DRAWN - JPK
 CHECKED - STB
 DATE - 02/02/2026

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SOIL BORING LOGS SHEET 2 OF 2
 STRUCTURE NO. 016-Z066**

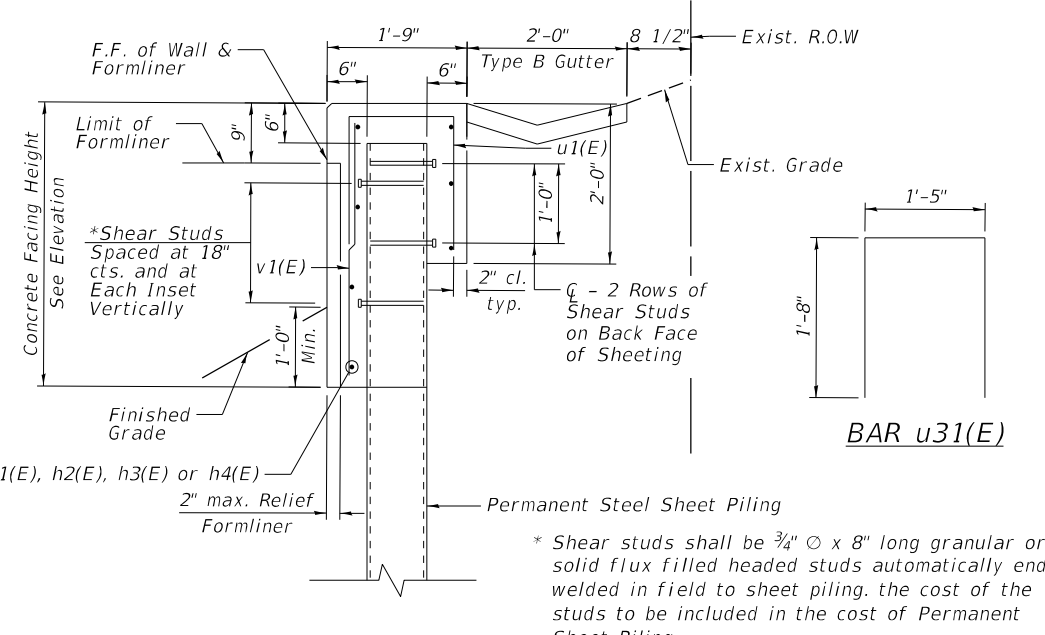
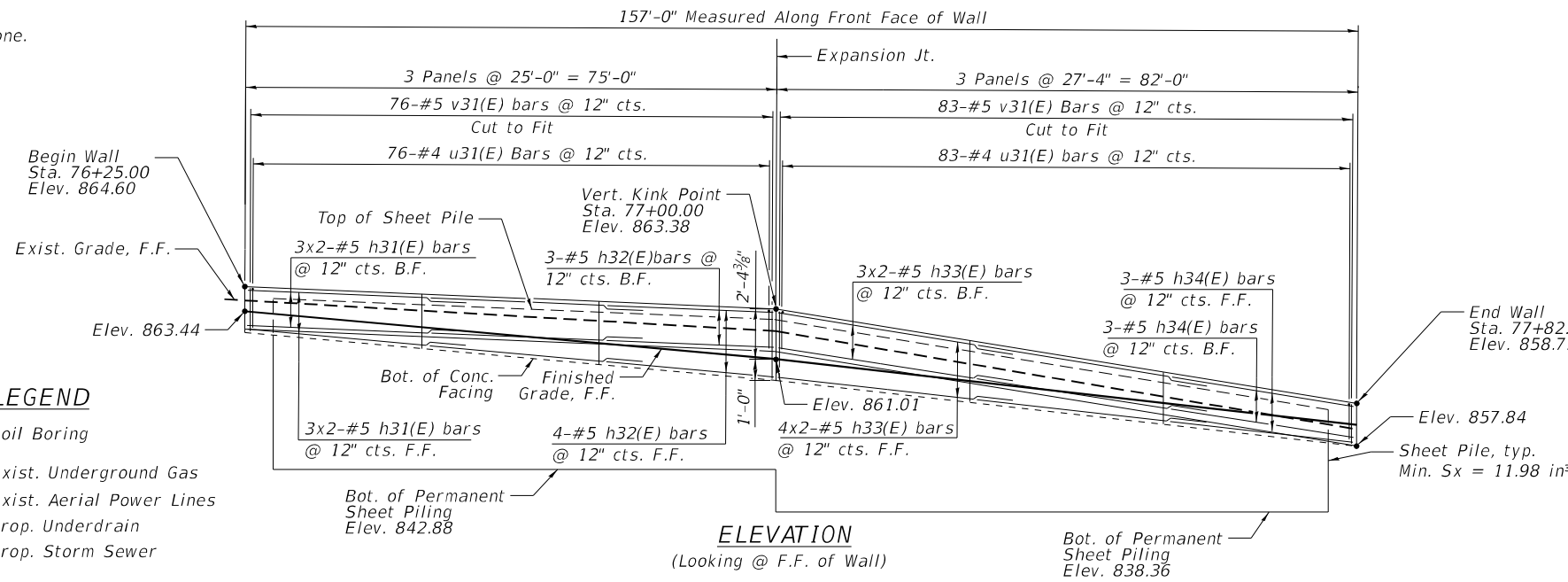
SCALE: SHEET WA-8 OF WA-8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	339
CONTRACT NO. 62K33				
ILLINOIS FED. AID PROJECT				

Bench Mark: Mag Nail near nose at entrance to Falcon Lakes Subdivision. STA 75+03.15, 11' LT. Elev 866.79

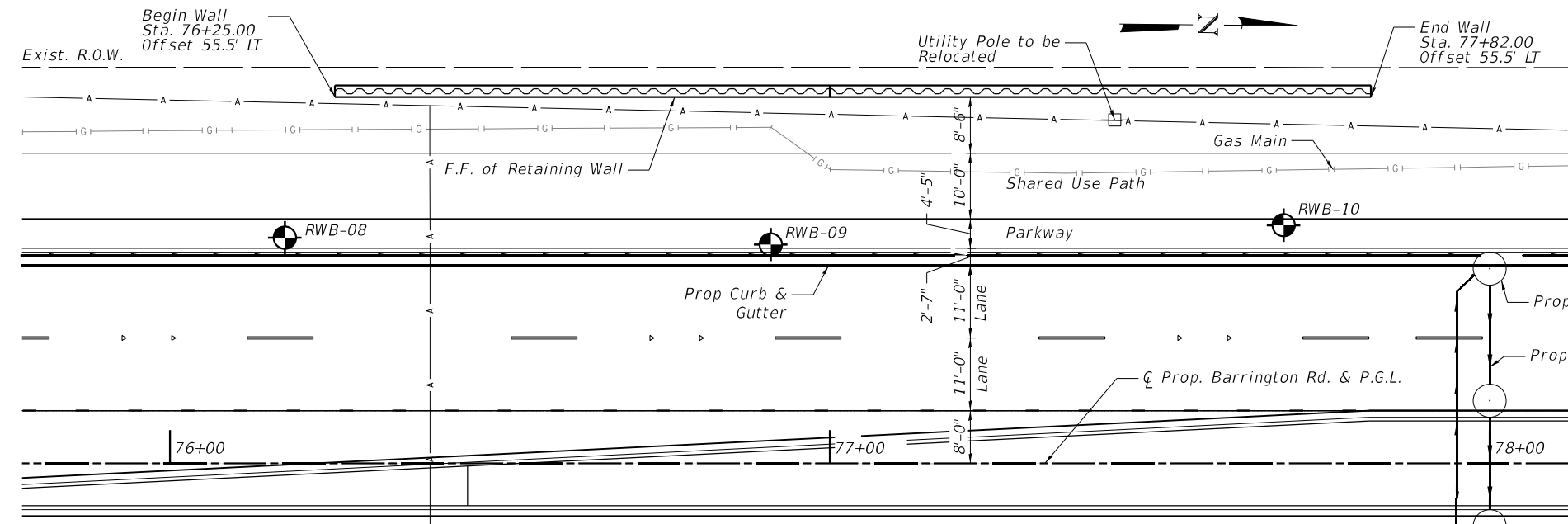
Existing Structure: None.

Salvage: None.

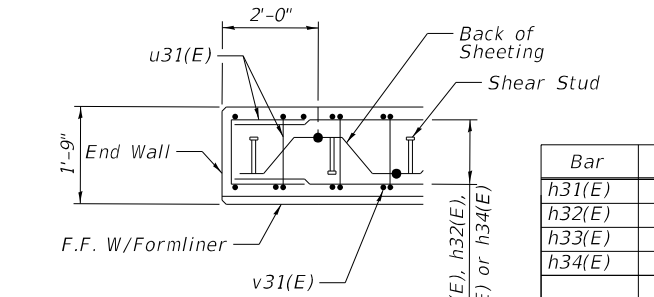


LEGEND

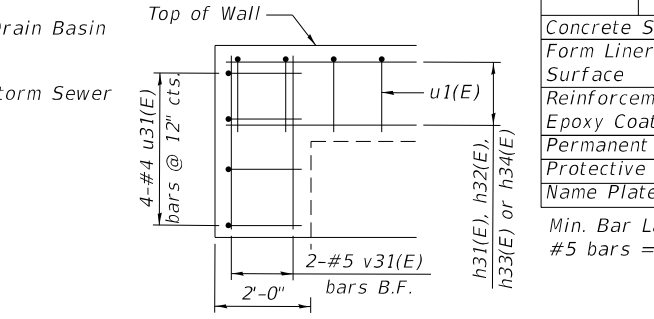
- Soil Boring
- Exist. Underground Gas
- Exist. Aerial Power Lines
- Prop. Underdrain
- Prop. Storm Sewer



TYPICAL SECTION THROUGH WALL



PLAN AT END OF WALL



TYPICAL END CAP DETAIL
(v1(E) bars in F.F. not shown for clarity)

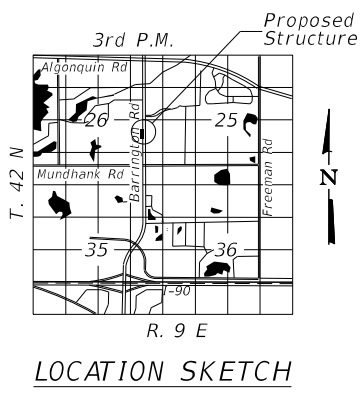
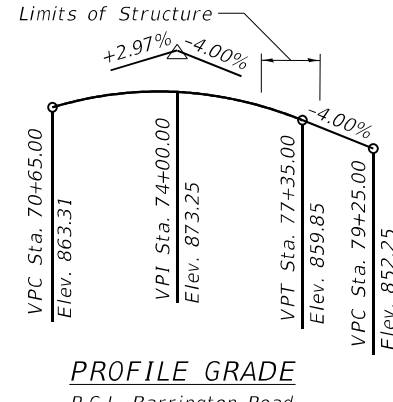
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h31(E)	12	#5	28'-7"	
h32(E)	7	#5	24'-10"	
h33(E)	14	#5	30'-11"	
h34(E)	6	#5	27'-2"	
v31(E)	163	#5	3'-0"	
u31(E)	167	#4	4'-9"	□
Concrete Structures			Cu. Yd.	23.9
Form Liner Textured Surface			Sq. Ft.	306
Reinforcement Bars, Epoxy Coated			Pound	1750
Permanent Sheet Piling			Foot	3284
Protective Coat			Sq. Yd.	78
Name Plates			Each	1

Min. Bar Lap: #5 bars = 3'-7"

NOTES

- Reinforcement bars designated (E) shall be epoxy coated.
- No construction joints except those shown on the plans shall be allowed unless approved by the Engineer.
- It shall be the Contractor's responsibility to verify the location of all utilities prior to starting construction. Contact J.U.L.I.E., 800-892-0123.
- Protective coat shall be applied to the front face and top of concrete facing to a distance of 1'-0" below finished grade.
- The Contractor shall not scale any dimensions from contract plans for construction purposes.
- Offsets measured to front face of retaining wall at proposed grade line.
- All exposed corner shall have a 1" chamfer.
- Minimum length of sheet pile shall be 20'-0".



INDEX OF SHEETS

WB-1 Plan and Elevation
WB-2 Soil Boring Logs

STATION 76+25.00
Build 20__ BY
STATE OF ILLINOIS
F.A.I. RT. 362
SEC. (2019-161-W)
LOADING HL-93
STR. NO. 016-Z067

NAME PLATE

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

DESIGN STRESSES

(FIELD UNITS)
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M202 grade 50)

**GENERAL PLAN & ELEVATION
ALONG BARRINGTON ROAD
F.A.P. 362 - SEC. 2019-161-W
COOK COUNTY
STA. 76+25.00 TO STA 77+82.00
STRUCTURE NO. 016-Z067**

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION
STRUCTURE NO. 016-Z067**



USER NAME = nickbrustin	DESIGNED - NMB	REVISED -
DRAWN - NMB	CHECKED - STB	REVISED -
PLOT SCALE = 0.083333' / in.	DATE - 02/02/2026	REVISED -
PLOT DATE = 3/11/2026		

SCALE: 1" = 12'	SHEET WB-1 OF WB-2 SHEETS	STA.	TO STA.
F.A.P. RTE. 362	SECTION 2019-161-W	COUNTY COOK	TOTAL SHEETS 666
			SHEET NO. 340
CONTRACT NO. 62K33			
ILLINOIS FED. AID PROJECT			

Bench Mark: Mag Nail in S. Edge of Pavement at Covered Bridge Road & Barrington Road. STA 83+42.52, 10' LT. Elev. 841.48

Existing Structure: None.

Salvage: None.

DESIGN SPECIFICATIONS

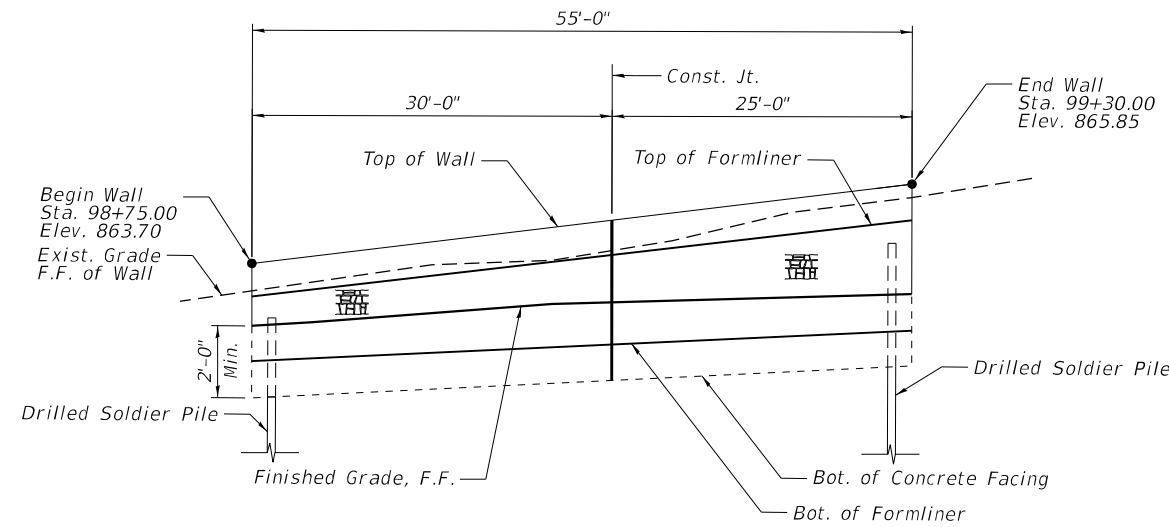
2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

DESIGN STRESSES

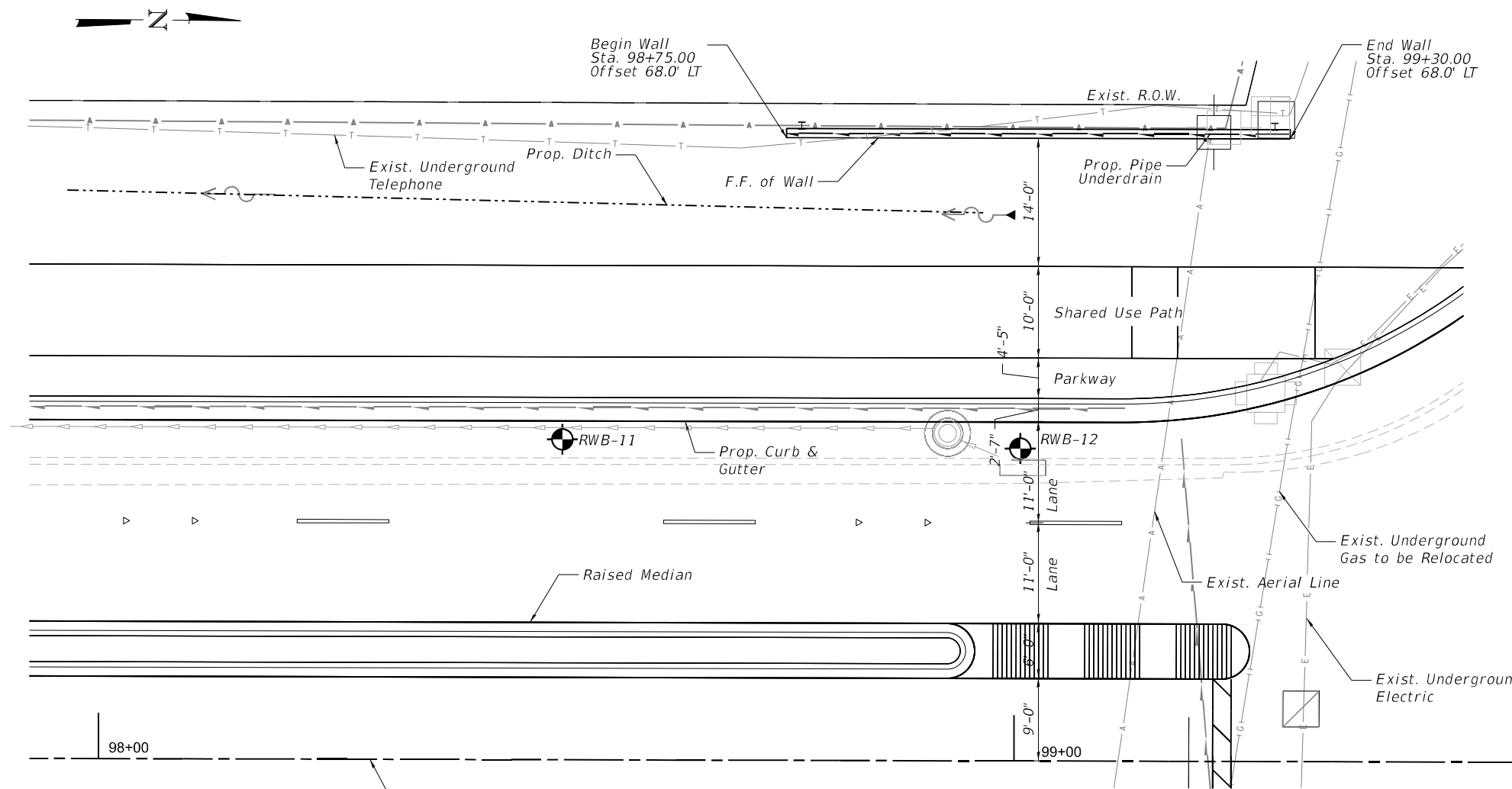
(FIELD UNITS)
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (M270 Grade 50)
 $f_b = 1,600$ psi (Untreated Timber Lagging)

LEGEND

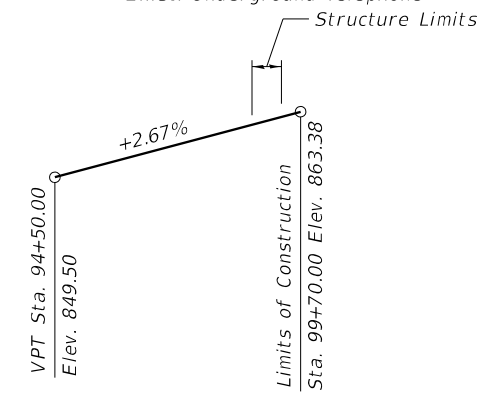
- HP Pile
- Sewer Structure
- Soil Boring
- Exist. Underground Gas
- Prop. Underdrain
- Existing Aerial Line
- Exist. Underground Electric
- Exist. Underground Telephone
- Structure Limits



ELEVATION
(Looking @ F.F. of Wall)

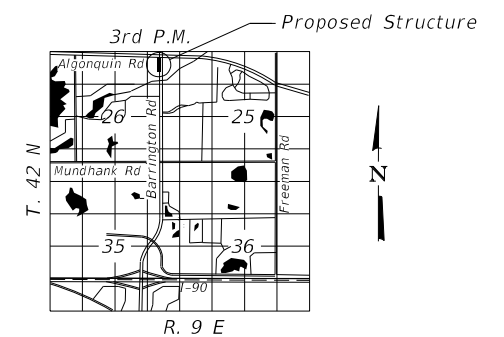


PLAN



PROFILE GRADE

N.B. & S.B. P.G.L. Barrington Road



LOCATION SKETCH

NOTES

- Wall offsets are measured from the ζ of Barrington Rd. to the front face of concrete wall facing.

ζ Prop. Barrington Rd. & P.G.L.

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION
STRUCTURE NO. 016-2068**

SCALE: 1" = 12' SHEET WC-1 OF WC-6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	342
CONTRACT NO. 62K33				

ILLINOIS FED. AID PROJECT

MODEL: Wall 3
FILE NAME: p:\projects\win101-e-transyscorp\comtransyscorp\win101\Documents\Projects_2020\C4401\4012001018\CAD\02_Sheets\02-Structural\Sheets\Ret. Wall 3\DWG\02-Structural\Retaining Wall 3.dwg



USER NAME = MazenSyed	DESIGNED - STB	REVISED -
PLOT SCALE = 0.08333317 1/1 in.	DRAWN - JPK	REVISED -
PLOT DATE = 2/3/2026	CHECKED - STB	REVISED -
	DATE - 02/02/2026	REVISED -

GENERAL NOTES

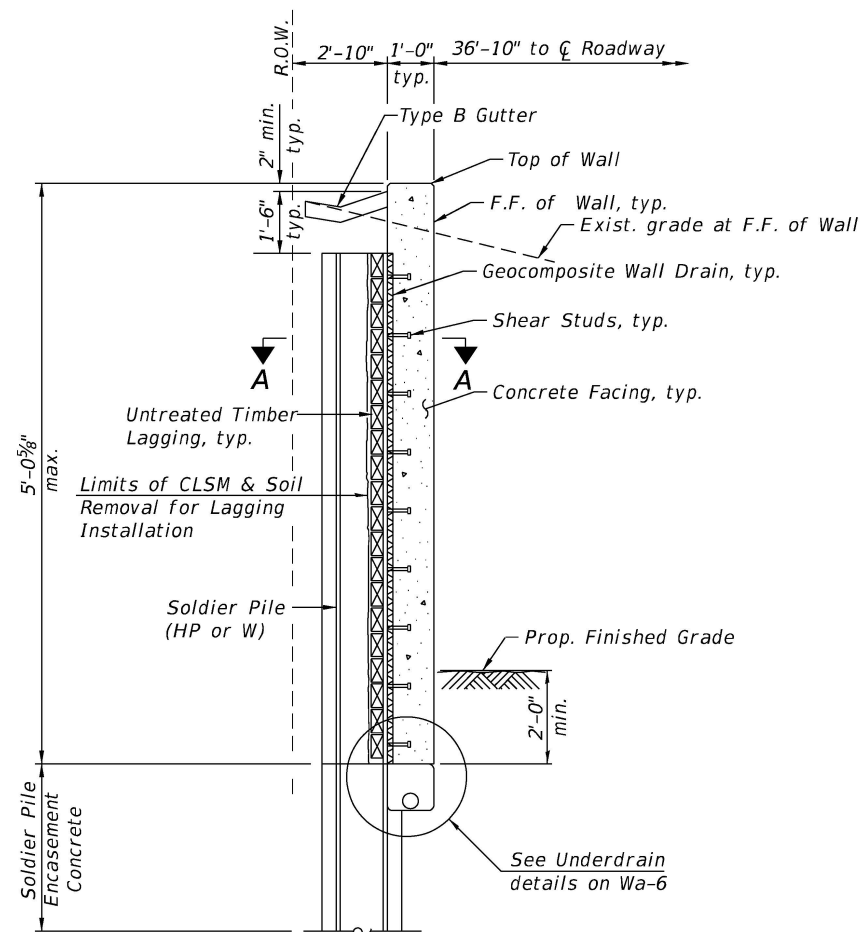
1. Reinforcement bars designated (E) shall be epoxy coated.
2. The Contractor is responsible for the design and performance of the lagging using no less than a 3 inch nominal rough-sawn thickness and timber with a minimum allowable bending stress of 1,000 psi.
3. No construction joints except those shown on the plans shall be allowed unless approved by the Engineer.
4. It shall be the Contractor's responsibility to verify the location of all utilities prior to starting construction. Contact J.U.L.I.E, 800-892-0123.
5. Protective coat shall be applied to the front face and top of concrete facing to a distance of 1'-0" below finished grade.
6. No field welding is permitted except as specified in the contract documents.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	CU YD	24
Concrete Structures	CU YD	9.0
Form Liner Textured surface	SQ FT	133
Protective Coat	SQ YD	21
Stud Shear Connectors	EACH	64
Reinforcement Bars Epoxy Coated	POUND	1,190
Furnishing Soldier Piles (HP Section)	FOOT	84
Drilling and setting Soldier Piles (In Soil)	CU FT	147
Untreated Timber Lagging	SQ FT	211
Geocomposite Wall Drain	SQ YD	18
Pipe Underdrains for Structures 4"	FOOT	55
Name Plates	EACH	1

PILE SCHEDULE

Pile Number	Pile Size	Station at F.F. of Wall	Offset at F.F. of Wall	Top of Pile Elev.	Bottom of CIP Facing	Pile Tip Elev.	Length of Pile (ft)	No. of Shear Studs
1	HP12x53	98+77.50	68.00	862.30	859.97	848.30	14.0	8
2	HP12x53	98+87.50	68.00	862.69	860.13	848.69	14.0	10
3	HP12x53	98+97.50	68.00	863.08	860.29	849.08	14.0	10
4	HP12x53	99+07.50	68.00	863.47	860.44	849.47	14.0	12
5	HP12x53	99+17.50	68.00	863.86	860.60	849.86	14.0	12
6	HP12x53	99+27.50	68.00	864.25	860.76	850.25	14.0	12



TYPICAL SECTION THRU SOLDIER PILE WALL

STATION 98+75.00
Build 20__ BY
STATE OF ILLINOIS
F.A.I. RT. 362
SEC. (2019-161-W)
LOADING HL-93
STR. NO. 016-Z068

NAME PLATE

INDEX OF SHEETS

- WC-1 Plan and Elevation
- WC-2 General Notes, Soldier Pile Schedule and Bill of Materials
- WC-3 Soldier Pile Layout
- WC-4 Concrete Facing Details
- WC-5 Typical Sections & Details
- WC-6 Soil Boring Logs

LIST OF ABBREVIATIONS

B	Baseline	B.F.	Back Face
cl.	Centerline	cl.	Clearance
const.	Construction	∅	Diameter
conc.	Concrete	elev.	Elevation
cts.	Centers	long.	Longitudinal
E.F.	Each Face	min.	Minimum
exist.	Existing	O.F.	Outside Face
F.F.	Front Face	prop.	Proposed
jt.	Joint	R.O.W.	Right of Way
LT	Left	RT	Right
max.	Maximum	rte.	Route
no.	Number	RET.	Retaining Wall
PG	Profile Grade	spa.	Spaces
P.G.L.	Profile Grade Line	sta.	Station
Req'd.	Required	struct.	Structure
sect.	Section	PL	Plate
spec.	Specification	o.c.	On Center
std.	Standard	U.N.O.	Unless Noted Otherwise
typ.	Typical		

MODEL: Wall 1_BOM
FILE NAME: p:\projects\p10101\2020\18\CAD\02 - Sheets\20-Structural\Sheets\Ret. Wall 3\016Z068-5HT-002-BOM Wall 3



USER NAME = nbrustin ed	DESIGNED - NMB	REVISED -
PLOT SCALE = 1/4" = 1'	DRAWN - NMB	REVISED -
PLOT DATE = 02/02/2026	CHECKED - STB	REVISED -
	DATE - 02/02/2026	REVISED -

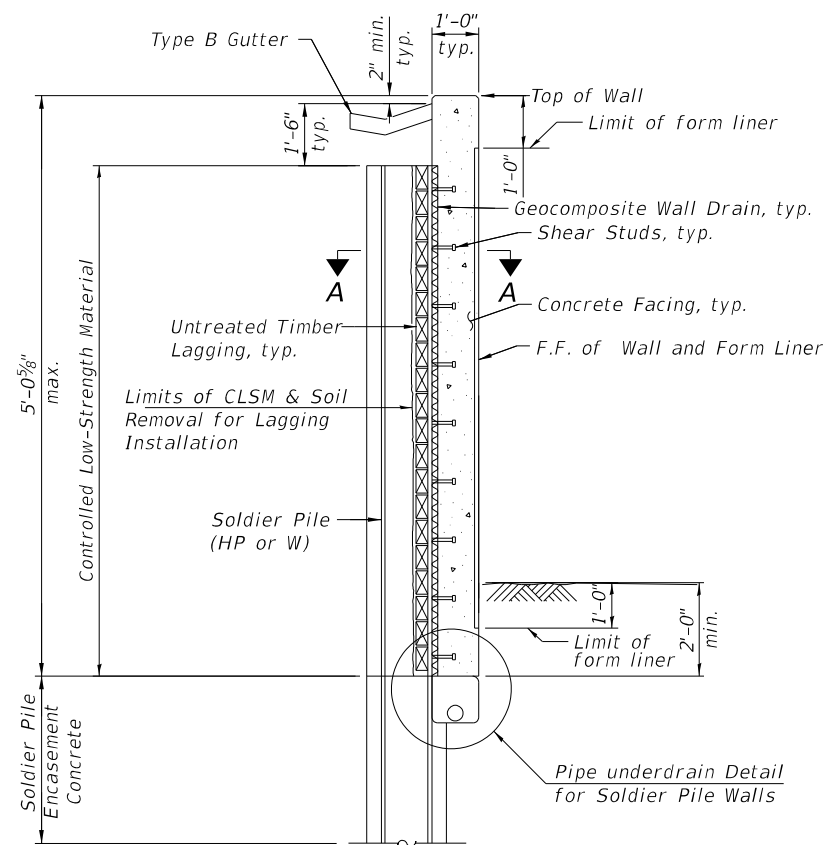
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

**GENERAL NOTES, SOLDIER PILE SCHEDULE AND BILL OF MATERIALS
STRUCTURE NO. 016-Z068**

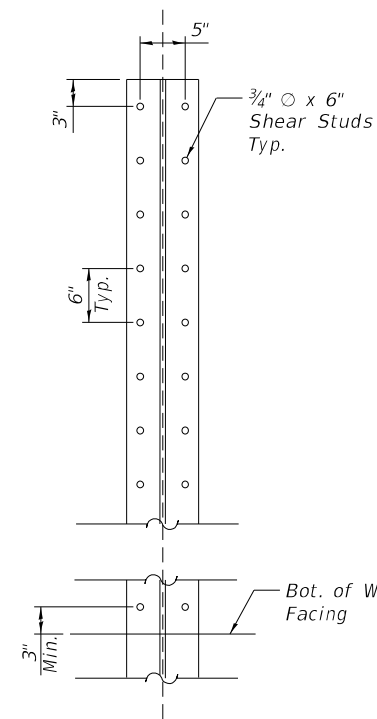
SCALE: SHEET WC-2 OF WC-6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	343
CONTRACT NO. 62K33				
ILLINOIS FED. AID PROJECT				

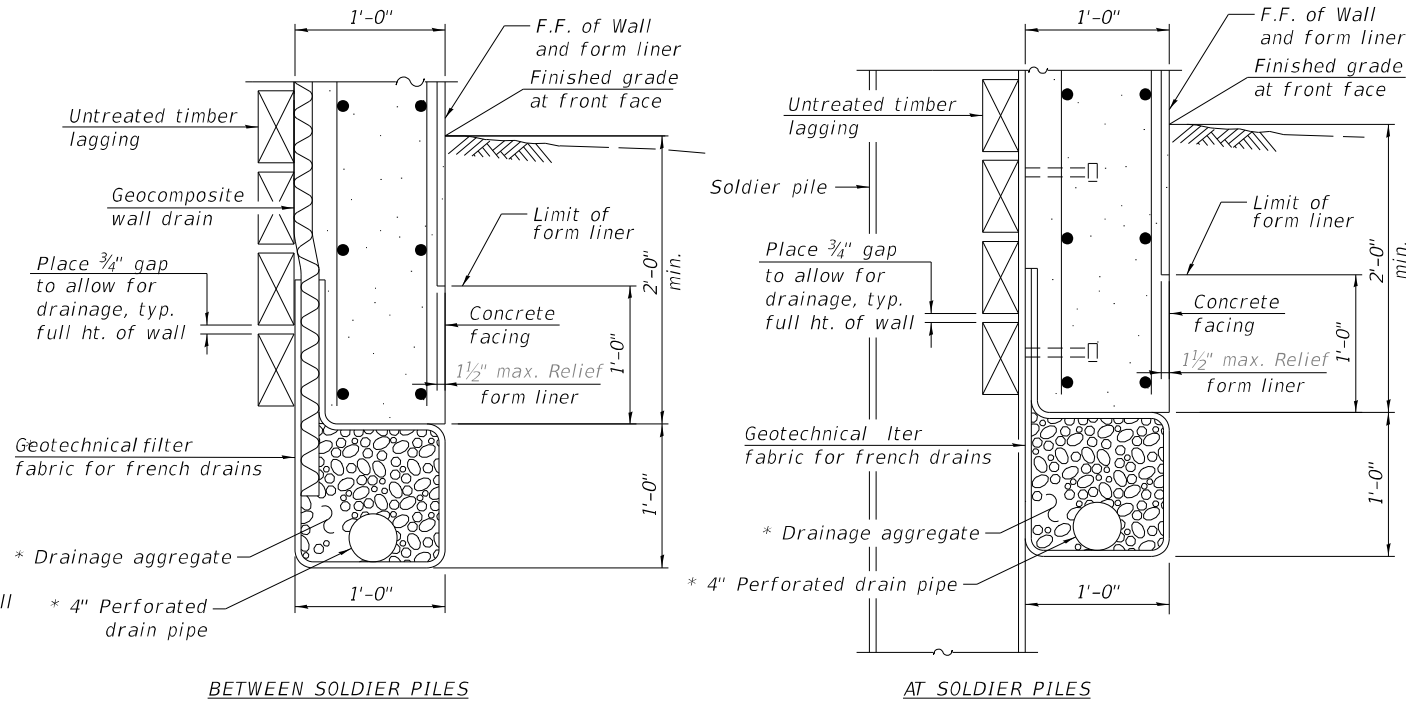
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**SECTION THRU
SOLDIER PILE WALL**



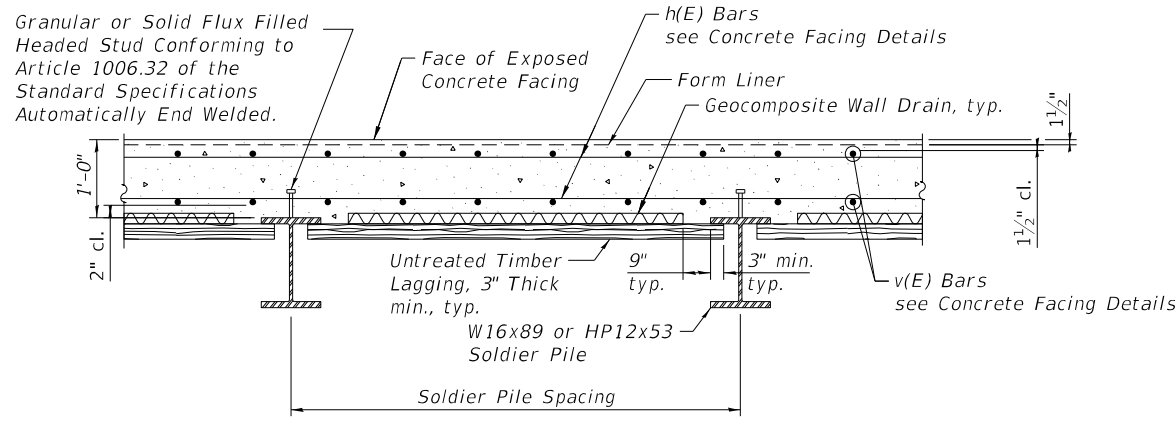
SHEAR STUD DETAIL



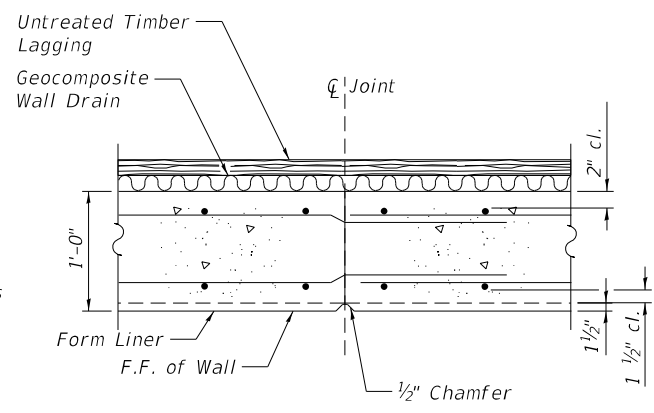
**UNDERDRAIN DETAILS
FOR SOLDIER PILE WALLS**

Included in the cost of Pipe Underdrains for Structures.

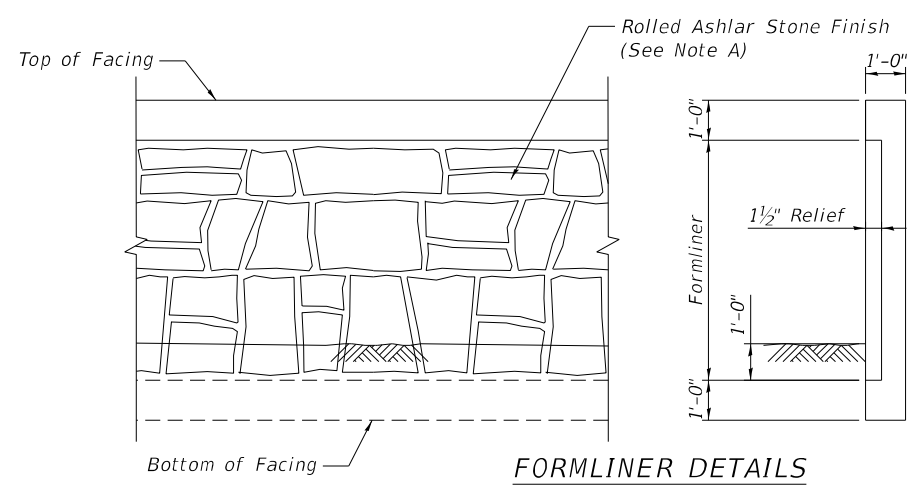
Note A:
The Form Liner Pattern shall have a rolled Ashlar Stone Finish with a 1 1/2 inch impression.



SECTION A-A



CONSTRUCTION JOINT DETAIL



FORMLINER DETAILS



USER NAME = MazenSyed	DESIGNED - NMB	REVISED -
PLOT SCALE = 0.08333317 1/1 in.	DRAWN - NMB	REVISED -
PLOT DATE = 2/3/2026	CHECKED - STB	REVISED -
	DATE - 02/02/2026	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS AND DETAILS
STRUCTURE NO. 016-Z068**

SCALE: N.T.S. SHEET WC-5 OF WC-6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	346
CONTRACT NO. 62K33			ILLINOIS FED. AID PROJECT	

Wang Engineering
 wangeng@wangeng.com
 1145 N. Main Street
 Lombard, IL 60148
 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG RWB-10
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 858.30 ft
 North: 1975709.13 ft
 East: 1036404.97 ft
 Station: 77+68.75 R2
 Offset: 36.09 LT

Page 1 of 1

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Qu (tsf)	Moisture Content (%)
858.1	12-inch thick, black SILTY CLAY												
857.5	--TOPSOIL--												
	8-inch thick, gray SANDY GRAVEL		1	5 6 6	4.00 P	18							
	--FILL--												
	Hard, brown and gray SILTY CLAY, trace gravel, damp		2	6 6 7	3.03 B	18							
855.3	--FILL--												
	Stiff to hard, brown to gray SILTY CLAY, trace gravel, damp		3	5 9 11	7.46 B	15							
	--RDR 2--												
			4	3 8 10	2.21 B	18							
			5	3 4 10	2.54 B	20							
			6	4 5 6	1.39 B	18							
			7	4 4 6	1.64 B	19							
			8	6 5 6	2.05 B	20							
838.3													

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	04-19-2024	Complete Drilling	04-19-2024	While Drilling	▼	Dry	
Drilling Contractor	Wang Testing Services	Drill Rig	17D50T [81%]	At Completion of Drilling	▼	Dry	
Driller	RH&JD	Logger	M. Rojo	Time After Drilling	NA		
Checked by	J. Bensen	Drilling Method	2.25" ID HSA; Boring backfilled upon completion	Depth to Water	▼	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

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BORING LOG RWB-12
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 861.82 ft
 North: 1977841.27 ft
 East: 1036373.38 ft
 Station: 99+00.91 R2
 Offset: 51.09 LT

Page 1 of 1

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Qu (tsf)	Moisture Content (%)
860.8	12-inch thick, black SILTY CLAY LOAM												
	--TOPSOIL--												
	Very stiff, brown SILTY CLAY LOAM, damp		1	5 12 15	3.12 B	17							
	--FILL--												
858.8	--RDR 2--												
	Stiff to hard, brown to gray SILTY CLAY to SILTY CLAY LOAM, trace gravel, damp		2	6 7 9	5.49 B	17							
	--RDR 2--												
			3	5 6 5	3.44 B	21							
			4	4 5 8	3.28 B	22							
			5	4 6 7	1.64 B	16							
			6	5 9 9	1.80 B	16							
			7	2 3 6	1.64 B	15							
			8	5 5 8	1.48 B	15							
841.8													

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	05-21-2024	Complete Drilling	05-21-2024	While Drilling	▼	Dry	
Drilling Contractor	Wang Testing Services	Drill Rig	20D50T [80%]	At Completion of Drilling	▼	Dry	
Driller	RH&JD	Logger	M. Rojo	Time After Drilling	NA		
Checked by	J. Bensen	Drilling Method	2.25" ID HSA; Boring backfilled upon completion	Depth to Water	▼	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

MODEL: Well 3
 FILE NAME: pwr\log-pwin101.e-transyscorp.com\transyscorp\pwr\Documents\Projects_2020\C1401401200018\CAD\02 - Sheets\20-Structural\Sheets\Soil Borings\0162K33-SHT-Soil Borings_Culverts\MSE.dgn
 WANGENG 10640101.GPJ WANGENG.GDT 7/17/24

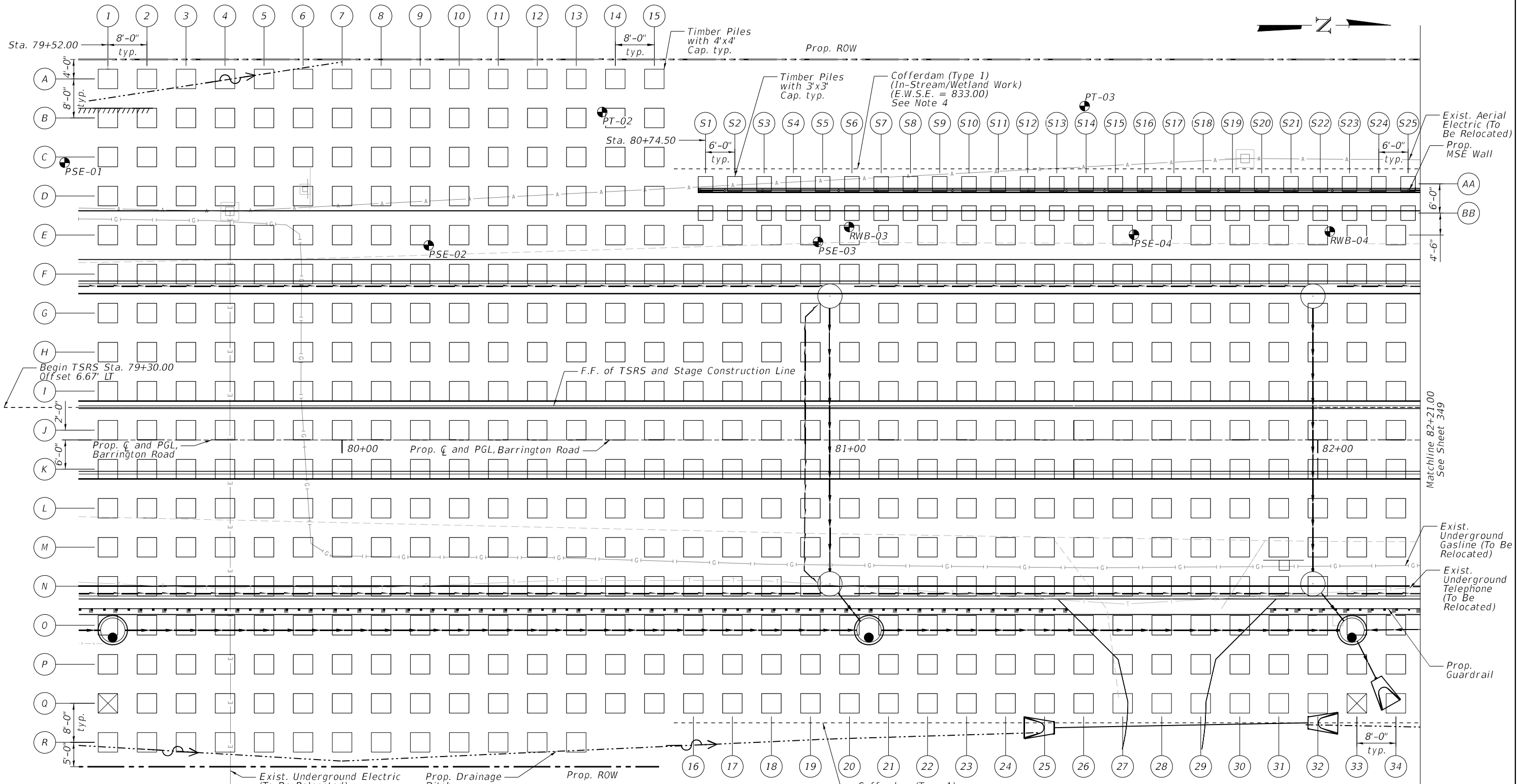


USER NAME	= MazenSyed	DESIGNED	- JPK	REVISED	-
DRAWN	- JPK	REVISION	-		
PLOT SCALE	= 19.999960' / in.	CHECKED	- STB	REVISED	-
PLOT DATE	= 2/3/2026	DATE	- 02/02/2026	REVISED	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SOIL BORING LOGS STRUCTURE NO. 016-Z068			
SCALE:	SHEET WC-6	OF WC-6 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	347
CONTRACT NO. 62K33				
ILLINOIS FED. AID PROJECT				



LEGEND

- (A) (1) Pile line designation for roadway PSE (w/4'x4' Pile Caps)
- (AA) (S1) Pile line designation for structure PSE (w/3'x3' Pile Caps)
- ε— Ex. Underground Electric
- G— Ex. Underground Gasline
- ⊗ Test Pile Location
- T— Ex. Underground Telephone
- > Pr. Drainage Ditch
- > Pr. Storm Sewer
- Soil Boring

TIMBER PILE LAYOUT PLAN

NOTES

- Dimensions are given to C of pile and cap.
- All proposed storm sewer structures and pipes are located above elevations of pile caps. Where structures conflict with caps, cap elevations to be lowered. See pile schedule for details. See drainage plan and profile plans for additional drainage details.
- See Sheet 341 for details of Timber Piles with 3'x3' and 4'x4' caps.
- Cofferdams Type 1 and 2 (In-Stream/Wetland Work) shall be quantified as separate pay items for each stage of roadway reconstruction for the entire length of cofferdam installed, by type.

MODEL: PSE Layout 1
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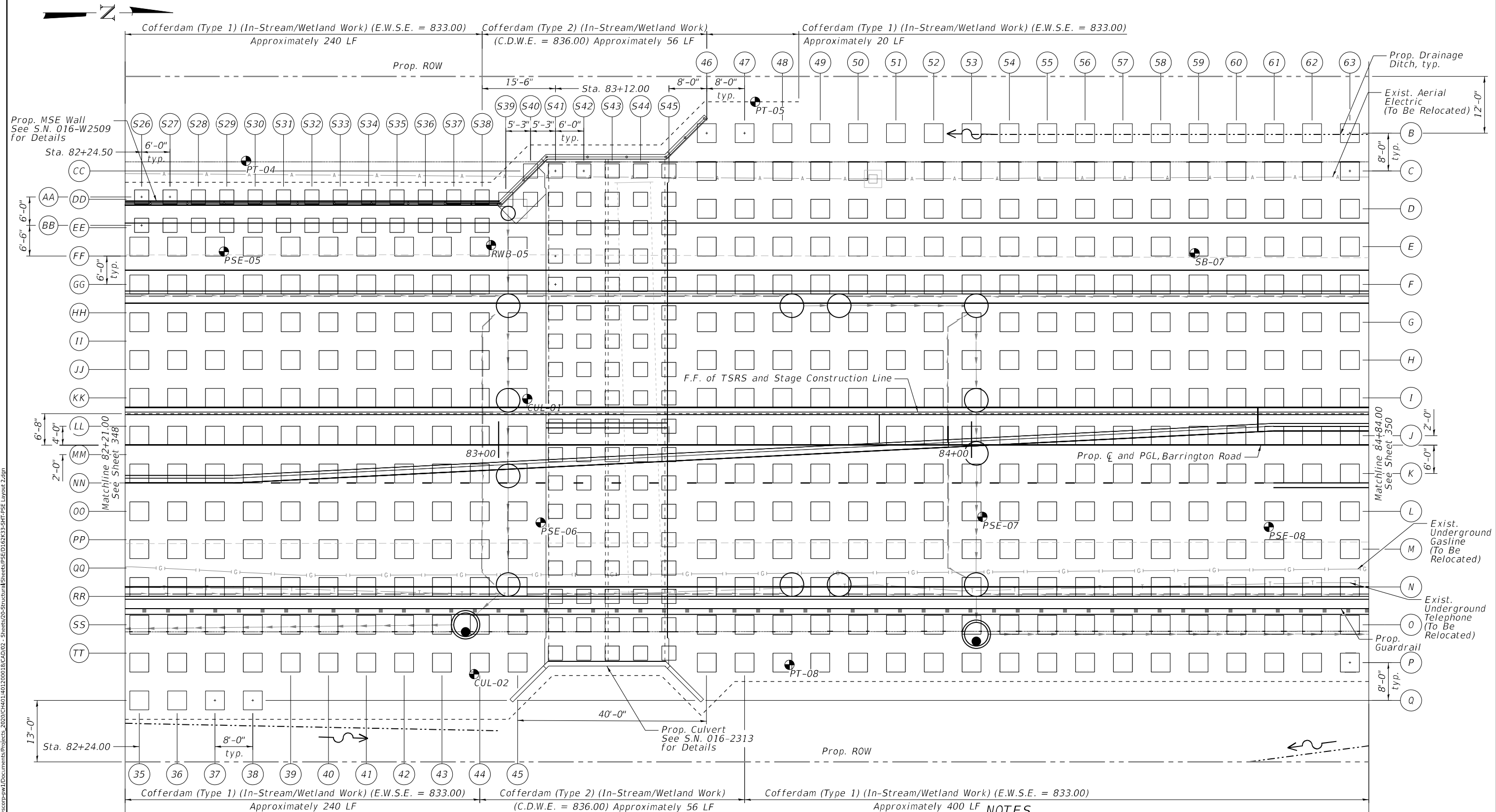
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PLOT DATE = 2/3/2026	CHECKED - STB	REVISED -
	DATE - 02/02/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PILE SUPPORTED EMBANKMENT
PILE LAYOUT PLAN 1

SCALE: 1" = 10' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	348
CONTRACT NO. 62K33				
ILLINOIS FED. AID PROJECT				



LEGEND

- (A) 1 Pile line designation for roadway PSE (w/4'x4' Pile Caps)
- (AA) S1 Pile line designation for structure PSE (w/3'x3' Pile Caps)
- E — Ex. Underground Electric
- G — Ex. Underground Gasline
- T — Ex. Underground Telephone
- Pr. Drainage Ditch
- Pr. Storm Sewer
- Soil Boring

TIMBER PILE LAYOUT PLAN

NOTES

1. Dimensions are given to centerline of pile and cap.
2. All proposed storm sewer structures and pipes are located above elevations of pile caps. Where structures conflict with caps, cap elevations to be lowered. See pile schedule for details. See drainage plan and profile plans for additional drainage details.
3. See Sheet 341 for details of Timber Piles with 3'x3' and 4'x4' caps.
4. Cofferdams Type 1 & 2 (In-Stream/Wetland Work) shall be quantified as separate pay items for each stage of roadway reconstruction for entire length of cofferdam installed, by type.

MODEL: PSE Layout 2
 FILE NAME: P:\Projects\2019-161-W\Drawings\Structural\Sheets\PSSE\016X33-SHT-PSE-Layout 2.dgn
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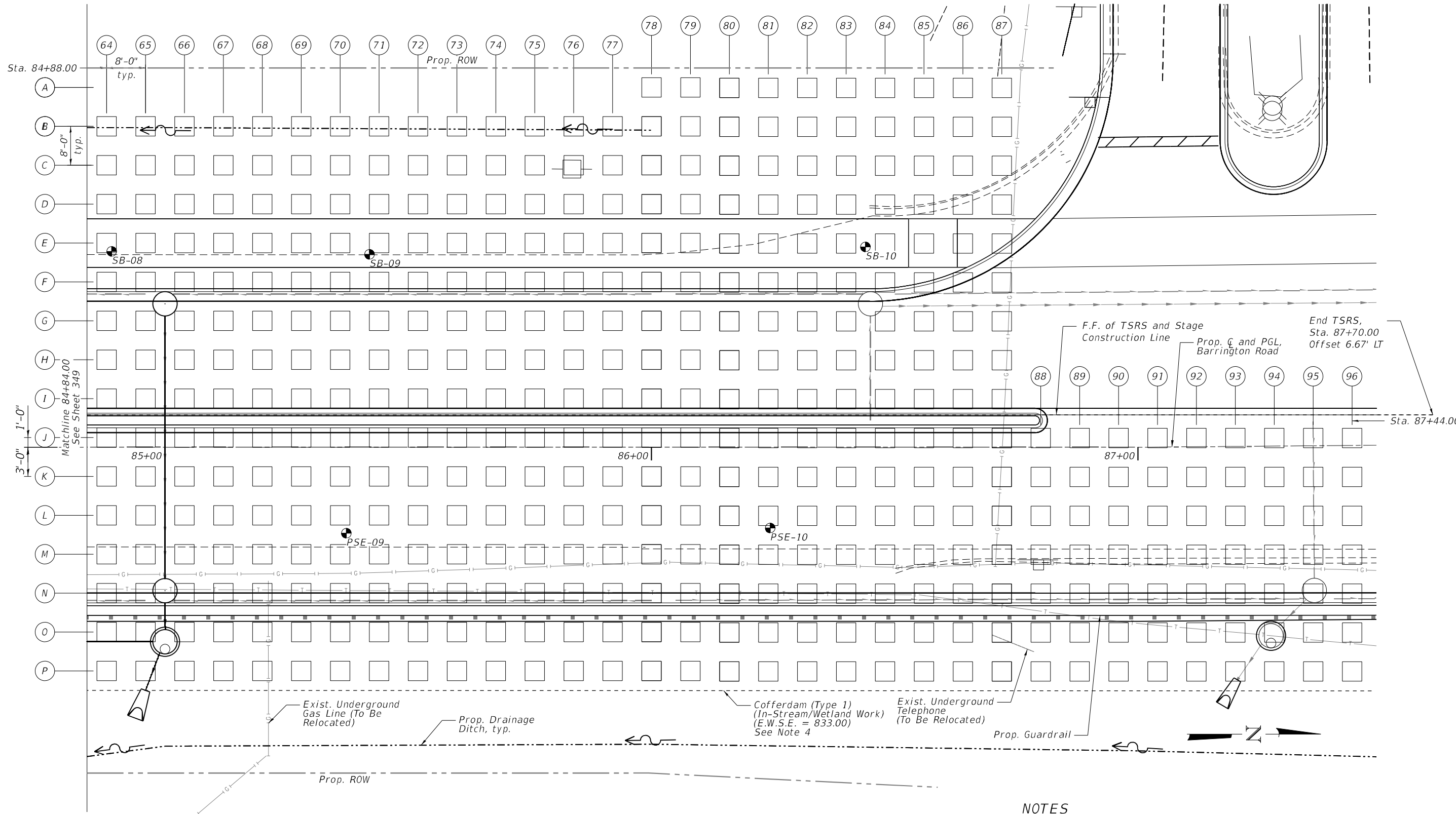
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PLOT SCALE = 0.08333317 1/ in.	DRAWN - JPK	REVISED -
PLOT DATE = 2/3/2026	CHECKED - STB	REVISED -
	DATE - 02/02/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PILE SUPPORTED EMBANKMENT	
PILE LAYOUT PLAN 2	
SCALE: 1" = 10'	SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 362	SECTION 2019-161-W	COUNTY COOK	TOTAL SHEETS 666	SHEET NO. 349
CONTRACT NO. 62K33			ILLINOIS FED. AID PROJECT	

MODEL: PSE Layout 3
 FILE NAME: p:\projects\2020\Illinois\Documents\Projects_2020\CH401\401200018\CAD\02 - Sheets\CD-Structural\Sheets\PSE\02\EX33-SHT-PSE Layout 3.dgn



LEGEND

- (A) 1 Pile line designation for roadway PSE (w/4'x4' Pile Caps)
- (AA) (S1) Pile line designation for structure PSE (w/3'x3' Pile Caps)
- E—E— Ex. Underground Electric
- G—G— Ex. Underground Gasline
- T—T— Ex. Underground Telephone
- D—D— Pr. Drainage Ditch
- S—S— Pr. Storm Sewer
- Soil Boring

TIMBER PILE LAYOUT PLAN

NOTES

1. Dimensions are given to centerline of pile and cap.
2. All proposed storm sewer structures and pipes are located above elevations of pile caps. Where structures conflict with caps, cap elevations to be lowered. See pile schedule for details. See drainage plan and profile plans for additional drainage details.
3. See Sheet 341 for details of Timber Piles with 3'x3' and 4'x4' caps.
4. Cofferdams Type 1 & 2 (In-Stream/Wetland Work) shall be quantified as separate pay items for each stage of roadway construction for entire length of cofferdam installed, by type.



USER NAME = MazenSyed	DESIGNED - STB	REVISED -
DRAWN - JPK	CHECKED - STB	REVISED -
PLOT SCALE = 0.083333' / in.	DATE - 02/02/2026	REVISED -
PLOT DATE = 2/3/2026		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PILE SUPPORTED EMBANKMENT	
PILE LAYOUT PLAN 3	
SCALE: 1" = 10'	SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	350
CONTRACT NO. 62K33				
ILLINOIS FED. AID PROJECT				

PILE SUPPORTED EMBANKMENT NOTES

1. Reinforcement bars shall conform to the requirements of ASTM A706 Gr. 60.
2. If necessary, the subgrade treatment required to establish a working platform, below load transfer platform, should consist of excavating an additional 12 inches of organic material, placing a layer of geogrid and geofabric at the base of the excavation to ensure separation from the weak material, and building back with 12 inches of IDOT porous granular embankment. The geofabric may be cut at the pile installation points, if necessary.
3. Within the roadway widening in the wetland areas, a working platform will be required prior to setting concrete forms and pouring the caps. Beginning at an offset of 30 feet east (RT) of the Barrington Road centerline and extending to an offset of 60 feet east (RT) between Station 80+50 and Station 87+50 and beginning at an offset of 45 feet west (LT) of the Barrington Road centerline and extending to an offset of 60 feet west (LT) between Station 80+50 and Station 84+50, the Contractor shall remove existing material to an elevation of 834 feet. A layer of geogrid and geofabric should be placed at the base of the excavation and the ground should be brought back to the cap base elevation of 835 feet with IDOT porous granular embankment.
4. If a drainage structure will be located below the level of pile caps, other than those identified in the table on this sheet, the pile caps in conflict need to be lowered below the bottom of the structure. In addition, a minimum of one pile needs to be placed below the structure to support it.
5. For Pile Supported Embankment see special provisions for Biaxial Geogrid, Porous Granular Embankment (Special), and Precast Concrete Caps.
6. A cantilever sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

DESIGN STRESSES

(PRECAST UNITS)
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

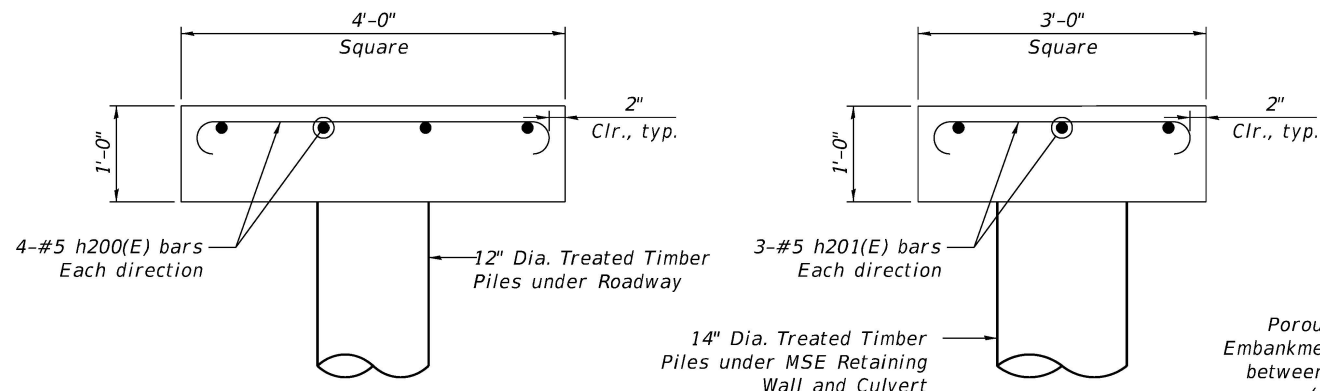
BILL OF MATERIAL

Item	Unit	Total
Precast Concrete Caps, 3'x3'	Each	169
Precast Concrete Caps, 4'x4'	Each	1,354
Driving Piles	Foot	67,725
Test Pile Timber	Each	2
Furnishing Treated Piles over 38 Feet	Foot	67,725
Temporary Soil Retention System	Sq. Ft.	6,786
Biaxial Geogrid	Sq. Yd.	40,554
Porous Granular Embankment, Special	Cu. Yd.	12,599
Cofferdam (Type 1) (In-Stream/Wetland Work)	Each	2
Cofferdam (Type 2) (In-Stream/Wetland Work)	Each	2

PILE SUPPORTED EMBANKMENT DETAILS

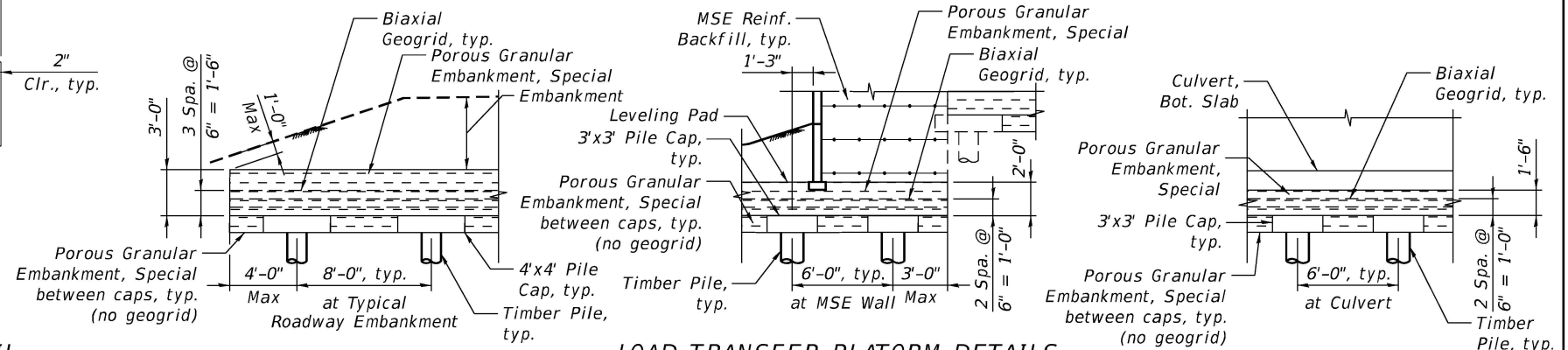
Pile Column Limits	Pile Rows	Nominal Required Bearing (Kips)	Factored Resistance Available (Kips)	Estimated Pile Length (Feet)	Top of Cap Elevation (Feet)	Total Number of Piles	Total Number of 3'x3' Pile Caps	Total Number of 4'x4' Pile Caps	Total Number of Biaxial Geogrid Layers
1-13	A-R	145	80	41	840	234	0	234	3
14-15	A-Q	145	80	41	837.5	34	0	34	3
16-19	E-Q	145	80	41	835.5	52	0	52	3
20-32	E-Q	145	80	41	835	169	0	169	3
33-38	E-Q	145	80	47	835	78	0	78	3
39-44	E-P	145	80	47	835	72	0	72	3
45	D-P	145	80	47	835	13	0	13	3
46-47	B-P	145	80	47	835	480	0	480	3
78-87	A-P	145	80	47	835	160	0	160	3
88-96	J-P	145	80	47	835	63	0	63	3
S1-S3	AA-BB	200	110	45	834	6	6	0	2
S4-S11	AA-BB	200	110	44	833	16	16	0	2
S12-S38	AA-BB	200	110	43	832	54	54	0	2
S39-S45	CC-TT	180	100	41	828	93	93	0	2

Note: Along Pile Row 0, at the following Column Line locations the piles and caps need to be set two feet lower than the adjacent piles to accommodate placement of storm sewer manholes.
 Column Lines: 1, 20, 21, 33, 43, 44, 53, 64, 66, & 94

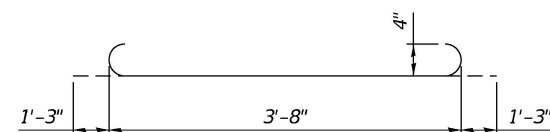


4'x4' PILE CAP DETAIL
(1354 Required)

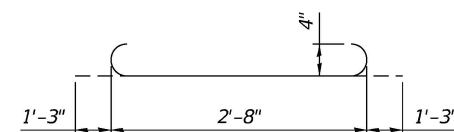
3'x3' PILE CAP DETAIL
(169 Required)



LOAD TRANSFER PLATFORM DETAILS



BAR h200(E)



BAR h201(E)

4'x4' PRECAST CONCRETE CAP BILL OF MATERIAL

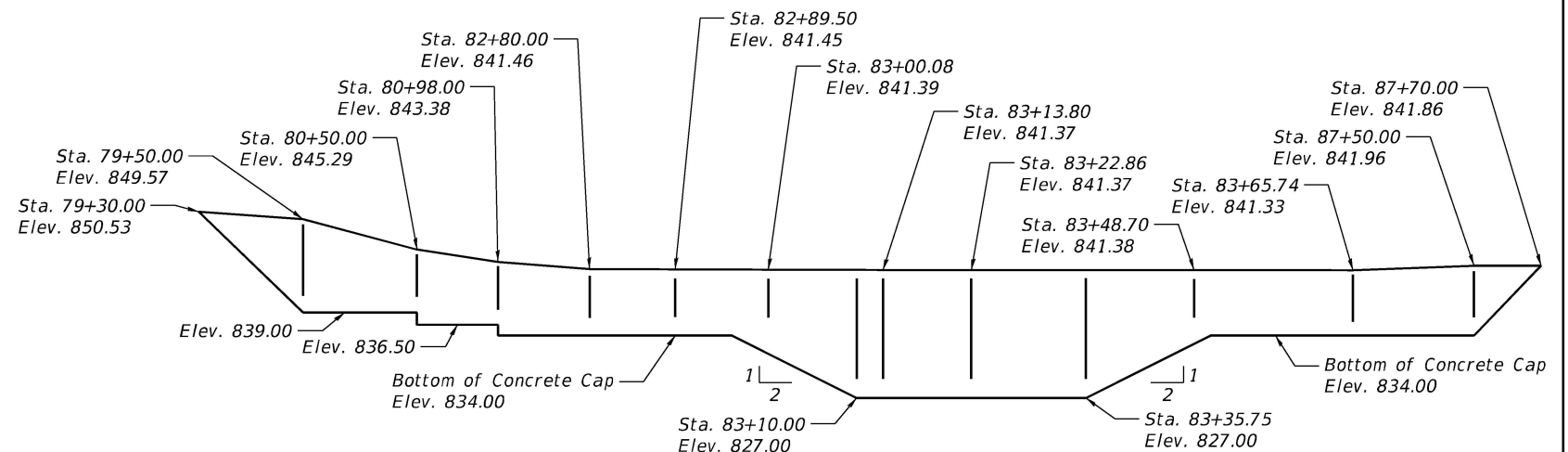
Item	Unit	Total
Concrete	Cu. Yd.	0.6
Reinforcement Bars, Epoxy Coated	Pound	52

(For Information Only)

3'x3' PRECAST CONCRETE CAP BILL OF MATERIAL

Item	Unit	Total
Concrete	Cu. Yd.	0.4
Reinforcement Bars, Epoxy Coated	Pound	30

(For Information Only)



TEMPORARY SOIL RETENTION SYSTEM

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PILE SUPPORTED EMBANKMENT PILE DETAILS

SCALE: 1" = 10' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	351
CONTRACT NO. 62K33				

MODEL: PSE Layout 1
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USER NAME = nickbrustin	DESIGNED - STB	REVISED -
PLOT SCALE = 0.083 1/16"	DRAWN - NMB	REVISED -
PLOT DATE = 3/11/2026	CHECKED - STB	REVISED -
	DATE - 02/02/2026	REVISED -

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BORING LOG DPB-03-ST
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 836.76 ft
 North: 1976555.22 ft
 East: 1036490.90 ft
 Station: 86+14.46
 Offset: 53.51 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample No. (accuracy)	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample No. (accuracy)	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
836.0	9-inch thick TOPSOIL														
	Very soft, black PEAT, trace gravel; moist -organic content: 32.8%-	1				< 0.25 P	142								
		5													
	-organic content: 61.0%-	2				< 0.25 P	508								
827.3	Very soft, dark gray PEAT to Organic SILTY CLAY, trace gravel; moist -organic content: 12.8%-	10				< 0.25 P	118								
823.8	Boring terminated at 13.00 ft	15													
		20													

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	02-07-2022	Complete Drilling	02-07-2022	While Drilling	▽	NA	
Drilling Contractor	Wang Testing Services	Drill Rig	21D50A [84%]	At Completion of Drilling	▽	NA	
Driller	KS&AP	Logger	A. Scifers	Time After Drilling	NA		
Checked by	C. Marin	Drilling Method	3" ID Shelby Tube; Boring backfilled upon completion	Depth to Water	▽	NA	

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BORING LOG SB-10
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 841.47 ft
 North: 1976584.32 ft
 East: 1036396.08 ft
 Station: 86+43.97 R2
 Offset: 41.19 LT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample No. (accuracy)	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample No. (accuracy)	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
840.9	7-inch thick CONCRETE -PAVEMENT-														
	Medium dense, gray GRAVEL; moist -FILL-	1			7 7 8	NP	18								
838.5	Very stiff, brown and gray SILTY CLAY LOAM, trace gravel; damp -FILL-	2			5 6 6	3.50 P	11								
836.0	Gray, fine SAND; wet -FILL-	5			5 5 5										
	Boring terminated at 25.00 ft	25													
		30													
		35													
		40													
833.5	Stiff to hard, brown to gray SILTY CLAY, trace gravel; damp to moist -RDR 2-	10			3 3 2	1.07 B	22								
		15													
		20													
	-3-inch thick silt seam-	7			5 5 6	1.23 B	19								
		8			7 5 10	2.13 B	20								

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	04-12-2024	Complete Drilling	04-12-2024	While Drilling	▽	4.75 ft	
Drilling Contractor	Wang Testing Services	Drill Rig	17D50T [81%]	At Completion of Drilling	▽	6.00 ft	
Driller	RH&JD	Logger	M. Rojo	Time After Drilling	NA		
Checked by	J. Bensen	Drilling Method	2.25" ID HSA; Boring backfilled upon completion	Depth to Water	▽	NA	

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 Fax: 630-953-9938

BORING LOG SB-09-HA
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 839.97 ft
 North: 1976487.76 ft
 East: 1036378.70 ft
 Station: 85+47.48 R2
 Offset: 58.98 LT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample No. (accuracy)	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample No. (accuracy)	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
839.3	8-inch thick, dark brown SILTY CLAY -TOPSOIL-														
	Medium stiff to very stiff, brown and gray SILTY CLAY to CLAY, trace gravel	1				0.75 P	27								
		2				1.00 P	26								
		3				3.06 B	18								
		4				3.63 B	18								
	Boring terminated at 8.00 ft	8													
		10													
		15													
		20													

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	05-21-2024	Complete Drilling	05-21-2024	While Drilling	▽	0.00 ft	
Drilling Contractor	Wang Testing Services	Drill Rig		At Completion of Drilling	▽	0.00 ft	
Driller		Logger	F. Bozga	Time After Drilling	NA		
Checked by	J. Bensen	Drilling Method	1" ID HSA; Boring backfilled upon completion	Depth to Water	▽	NA	

MODEL: STD-01 (BD-01)
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 WANGENGINC_10640101.GPJ; WANGENG.GDT 7/17/24



USER NAME	= MatthewToussaint	DESIGNED	= \$DESIGNED	REVISED	=
PLOT SCALE	= 39.99992000' / in.	DRAWN	= \$DRAWN	REVISED	=
PLOT DATE	= 2/3/2026	CHECKED	= \$CHECKED	REVISED	=
		DATE	= 02/02/2026	REVISED	=

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SOIL BORINGS LOG

SCALE: SHEET 1 OF 28 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	352
BD400-01 (BD-01)		CONTRACT NO. 62K33		
ILLINOIS FED. AID PROJECT				

Wang Engineering
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Lombard, IL 60148
Telephone: 630-953-9928
Fax: 630-953-9938

BORING LOG SB-09
WEI Job No.: 1064-01-01
Client: **Ardmore Roderick**
Project: **Barrington Rd from Algonquin Rd to Central Rd**
Location: **Cook County, IL**

Datum: NAVD 88
Elevation: 841.25 ft
North: 1976482.39 ft
East: 1036398.03 ft
Station: 85+42.03 R2
Offset: 39.67 LT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (ksf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (ksf)	Moisture Content (%)
841.03	3-inch thick, black SILTY CLAY --TOPSOIL--												
840.5	6-inch thick, gray GRAVEL												
	Very stiff to hard, brown and gray SILTY CLAY, trace gravel; damp	1	1	4 8 7	4.00 P	17			9	1	4 4 7	1.23 B	19
	Medium dense, brown Gravelly SAND; moist	2	2	10 14 10	2.00 P	13			10	2	4 4 9	1.00 P	17
837.2	Medium stiff to very stiff, brown to gray SILTY CLAY, trace gravel; damp	3	3	3 3 4	NR				3	3	0 0 0	0.25 P	662
834.5	Medium stiff to very stiff, brown to gray SILTY CLAY, trace gravel; damp	4	4	3 8 5	1.64 B	20			4	4	0 0 0	0.25 P	445
	Very soft, black Organic SILTY CLAY; moist	5	5	5 4 5	2.13 B	20			5	5	0 0 0	0.25 P	135
	Soft, gray CLAY to SILTY CLAY; moist	6	6	4 8 6	2.05 B	17			6	6	0 0 0	0.49 B	21
	Stiff, gray SILTY CLAY, trace gravel; moist	7	7	4 4 6	0.82 B	18			7	7	3 4 6	1.48 B	20
	4-inch thick silt seam	8	8	5 4 5	0.90 B	20			8	8	2 3 4	1.48 B	24
	Boring terminated at 25.00 ft	25					816.2		20				

GENERAL NOTES
Begin Drilling: 04-12-2024, Complete Drilling: 04-12-2024
Drilling Contractor: Wang Testing Services, Drill Rig: 17D50T [81%]
Driller: RH&JD, Logger: M. Rojo, Checked by: J. Bensen
Drilling Method: 2.25" ID HSA; Boring backfilled upon completion

WATER LEVEL DATA
While Drilling: 6.00 ft
At Completion of Drilling: 7.00 ft
Time After Drilling: NA
Depth to Water: NA

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BORING LOG DPB-03
WEI Job No.: 1064-01-01
Client: **Ardmore Roderick**
Project: **Barrington Rd from Algonquin Rd to Central Rd**
Location: **Cook County, IL**

Datum: NAVD 88
Elevation: 836.71 ft
North: 1976550.22 ft
East: 1036490.90 ft
Station: 86+09.46
Offset: 53.48 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (ksf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (ksf)	Moisture Content (%)
836.1	7-inch thick, black SILTY CLAY, trace gravel												
	Soft, black and gray Organic SILTY CLAY, trace gravel; moist	1	1	2 1 2	0.49 B	73			1	1	1 1 1	0.25 P	597
833.7	Very soft, black PEAT, trace gravel; moist to saturated	2	2	1 1 1	0.25 P	597			2	2	0 0 0	0.25 P	662
	methane odor	3	3	0 0 0	0.25 P	662			3	3	0 0 0	0.25 P	445
	methane odor	4	4	0 0 0	0.25 P	445			4	4	0 0 0	0.25 P	135
826.2	Very soft, black Organic SILTY CLAY; moist	5	5	0 0 0	0.25 P	135			5	5	0 0 0	0.25 P	21
823.7	Soft, gray CLAY to SILTY CLAY; moist	6	6	0 0 0	0.49 B	21			6	6	0 0 0	0.49 B	20
821.2	Stiff, gray SILTY CLAY, trace gravel; moist	7	7	3 4 6	1.48 B	20			7	7	2 3 4	1.48 B	24
	Boring terminated at 20.00 ft	20					816.7		20				

GENERAL NOTES
Begin Drilling: 02-04-2022, Complete Drilling: 02-04-2022
Drilling Contractor: Wang Testing Services, Drill Rig: 21D50A [84%]
Driller: KS&AP, Logger: A. Scifers, Checked by: C. Marin
Drilling Method: 2.25" ID HSA; Boring backfilled upon completion

WATER LEVEL DATA
While Drilling: 3.50 ft
At Completion of Drilling: Dry
Time After Drilling: NA
Depth to Water: NA

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BORING LOG SB-08-HA
WEI Job No.: 1064-01-01
Client: **Ardmore Roderick**
Project: **Barrington Rd from Algonquin Rd to Central Rd**
Location: **Cook County, IL**

Datum: NAVD 88
Elevation: 838.46 ft
North: 1976438.16 ft
East: 1036378.06 ft
Station: 84+97.89 R2
Offset: 59.84 LT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (ksf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (ksf)	Moisture Content (%)
838.0	6-inch thick, soft, black and dark brown SILTY CLAY												
837.2	Possible GRAVEL; wet	1	1		0.25 P	83			1	1			
	Stiff, brown SILTY CLAY to CLAY, trace gravel	2	2		1.75 P	28			2	2			
		3	3		1.72 B	30			3	3			
		4	4		1.50 P	15			4	4			
	Boring terminated at 8.00 ft	8					830.5		8				

GENERAL NOTES
Begin Drilling: 05-21-2024, Complete Drilling: 05-21-2024
Drilling Contractor: Wang Testing Services, Drill Rig: 21D50A [84%]
Driller: F. Bozga, Logger: F. Bozga, Checked by: J. Bensen
Drilling Method: 1" ID HSA; Boring backfilled upon completion

WATER LEVEL DATA
While Drilling: 1.00 ft
At Completion of Drilling: 0.50 ft
Time After Drilling: NA
Depth to Water: NA

MODEL: STD-02 (BD-07) FILE NAME: p:\jhg\p\m\01.e-transys\corp.com\transys\corp\pwr\Documents\Projects_2020\CAD\401200018\CAD02 - Sheets\21-Standard\01\03\33-SPT-SoilBorings.dgn



USER NAME = MatthewToussaint	DESIGNED - \$DESIGNED	REVISED -
PLOT SCALE = 39.99992000' / in.	DRAWN - \$DRAWN	REVISED -
PLOT DATE = 2/3/2026	CHECKED - \$CHECKED	REVISED -
	DATE - 02/02/2026	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SOIL BORINGS LOG
SCALE: SHEET 2 OF 28 SHEETS STA. TO STA.

F.A.P. RTE. 362	SECTION 2019-161-W	COUNTY COOK	TOTAL SHEETS 666	SHEET NO. 353
BD500-01 (BD-07)		CONTRACT NO. 62K33		
ILLINOIS FED. AID PROJECT				

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BORING LOG SB-06
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 838.22 ft
 North: 1976037.80 ft
 East: 1036487.54 ft
 Station: 80+97.06 R2
 Offset: 47.91' RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (ksf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (ksf)	Moisture Content (%)
837.2	12-inch thick SILTY CLAY --TOPSOIL-- Very soft, gray to black CLAY, trace gravel and organics; moist --RDR 2--	0	1	0	NA	71	817.7	Very stiff, gray SILTY CLAY, trace gravel; moist --RDR 2--	0	9	2	2.87	22
832.7	Loose, gray SAND, trace gravel; wet --RDR 2--	5	2	0	0.25	45	813.2	Boring terminated at 25.00 ft	25	10	2	2.46	19
830.2	Very soft, dark brown PEAT; moist --RDR 2--	10	4	0	0.25	366							
825.2	Very soft, dark gray Organic CLAY; moist --RDR 2--	15	6	0	0.08	94							
822.7	Soft, light gray CLAY, trace gravel; moist --RDR 2--	20	7	0	0.33	32							
820.2	Gray Gravelly LOAM; moist --RDR 2--	20	8	3	NA	9							

GENERAL NOTES
 Begin Drilling 05-02-2024 Complete Drilling 05-02-2024
 Drilling Contractor Wang Testing Services Drill Rig 21GeoT[92%]
 Driller AG&TC Logger L. Corral Checked by J. Bensen
 Drilling Method 2.25" ID HSA; Boring backfilled upon completion

WATER LEVEL DATA
 While Drilling 5.50 ft
 At Completion of Drilling Dry
 Time After Drilling NA
 Depth to Water NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG SB-05
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 839.40 ft
 North: 1975979.43 ft
 East: 1036482.12 ft
 Station: 80+38.71 R2
 Offset: 42.23' RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (ksf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (ksf)	Moisture Content (%)
838.4	12-inch thick Gravelly SAND Soft, dark brown to brown CLAY to SILTY CLAY, trace gravel and wood fragments; moist --RDR 2--	0	1	1	0.49	29	814.4	Boring terminated at 25.00 ft	25	10	2	3.03	18
833.9	Very loose, gray Gravelly SAND; saturated --RDR 2--	5	2	0	0.49	34							
831.4	Very soft to medium stiff, dark brown PEAT; moist --RDR 2--	10	4	0	0.25	254							
826.4	Soft, dark brown CLAY, some organics; moist --RDR 2--	15	6	0	0.33	67							
823.9	Soft, gray CLAY, trace gravel; moist --RDR 2--	20	7	0	0.33	27							
821.4	Medium stiff to very stiff, gray and brown SILTY CLAY, trace to little gravel; moist --RDR 2--	20	8	1	0.50	19							

GENERAL NOTES
 Begin Drilling 05-02-2024 Complete Drilling 05-02-2024
 Drilling Contractor Wang Testing Services Drill Rig 21GeoT[92%]
 Driller AG&TC Logger L. Corral Checked by J. Bensen
 Drilling Method 2.25" ID HSA; Boring backfilled upon completion

WATER LEVEL DATA
 While Drilling 5.50 ft
 At Completion of Drilling Dry
 Time After Drilling NA
 Depth to Water NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG SB-04
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 840.29 ft
 North: 1975938.45 ft
 East: 1036482.24 ft
 Station: 79+97.73 R2
 Offset: 42.17' RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (ksf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (ksf)	Moisture Content (%)
840.2	12-inch thick, black SILTY CLAY --TOPSOIL-- Medium stiff, brown SILTY CLAY, trace gravel; moist --RDR 2--	0	1	1	0.57	20	815.3	--wet spoon; possible sand lens--	0	9	3	3.28	17
837.3	Very loose, dark brown to black SANDY LOAM --RDR 2--	5	2	1	0.16	23							
834.8	Soft to medium stiff, dark brown to gray Organic CLAY; moist --RDR 2--	10	4	0	0.33	66							
829.8	Medium stiff, gray SILTY CLAY; moist -L(%)=33, P(%)=17-- -%Gravel=1.2-- -%Sand=10.2-- -%Silt=50.8-- -%Clay=37.7-- -A-6 (13)--	15	5	0	0.57	20							
827.3	Very stiff to hard, brown SILTY CLAY, trace gravel; moist --RDR 2--	20	6	2	2.87	20							
		25	7	4	4.10	18							
		30	8	5	5.33	15							

GENERAL NOTES
 Begin Drilling 05-02-2024 Complete Drilling 05-02-2024
 Drilling Contractor Wang Testing Services Drill Rig 21GeoT[92%]
 Driller AG&TC Logger L. Corral Checked by J. Bensen
 Drilling Method 2.25" ID HSA; Boring backfilled upon completion

WATER LEVEL DATA
 While Drilling 23.00 ft
 At Completion of Drilling 23.50 ft
 Time After Drilling NA
 Depth to Water NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

MODEL: STD-04 (BD-22) FILE NAME: p:\jhg\p\m\01.e-transys\corp.com\transys\corp\pwr\Documents\Projects_2020\CAD\401401200010\CAD02 - Sheets\P1-Standards\D162K33-SPT-SoilBorings.dgn



USER NAME = MatthewToussaint	DESIGNED - \$DESIGNED	REVISED -
PLOT SCALE = 39.99992000' / in.	DRAWN - \$DRAWN	REVISED -
PLOT DATE = 2/3/2026	CHECKED - \$CHECKED	REVISED -
	DATE - 02/02/2026	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SOIL BORINGS LOG

F.A.P. RTE. 362	SECTION 2019-161-W	COUNTY COOK	TOTAL SHEETS 666	SHEET NO. 355
BD400-04 (BD-22)		CONTRACT NO. 62K33		
ILLINOIS FED. AID PROJECT				

SCALE: SHEET 4 OF 28 SHEETS STA. TO STA.

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BORING LOG SB-03
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 843.76 ft
 North: 1975880.10 ft
 East: 1036478.86 ft
 Station: 79+39.39 R2
 Offset: 38.54' RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
843.71	1-inch thick, dark brown SILTY CLAY --TOPSOIL-- Medium stiff, brown CLAY, trace gravel, moist	0	1	0 0 2	0.50 P	39	822.0	Stiff, gray CLAY LOAM, trace gravel, moist	9	6 7 9	NR		
840.8	Loose, brown SANDY LOAM, trace gravel, moist --RDR 2--	2	2	1 3 2	0.08 B	20			10	4 6 8	1.00 P	12	
838.3	Soft, brown and gray CLAY, trace gravel, moist --RDR 2--	3	3	2 1 3	0.41 B	30	818.3	Stiff, gray SILTY CLAY, trace gravel, moist --RDR 2--	11	4 5 7	NA	19	
835.8	Very stiff to hard, brown SILTY CLAY, trace gravel, moist --RDR 2--	4	4	4 4 7	4.92 B	20	813.8	Boring terminated at 30.00 ft	12	4 4 7	1.80 B	20	
	--wet spoon; possible sand lens--	5	5	4 6 9	5.33 B	20			13	5 11 14	9.43 B	19	
		6	6	8 8 11	5.74 B	17			14	6 11 14	9.84 B	19	
		7	7	5 7 9	4.51 B	22			15	6 11 13	7.79 B	17	
		8	8	4 6 8	3.03 B	16			16	6 5 9	2.46 B	18	

GENERAL NOTES
 Begin Drilling: 05-01-2024
 Complete Drilling: 05-01-2024
 Drilling Contractor: Wang Testing Services
 Drill Rig: 21GeoT[92%]
 Driller: AG&TC
 Logger: L. Corral
 Checked by: J. Bensen
 Drilling Method: 2.25" ID HSA; Boring backfilled upon completion

WATER LEVEL DATA
 While Drilling: 10.50 ft
 At Completion of Drilling: 3.00 ft
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG SB-02
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 847.44 ft
 North: 1975827.70 ft
 East: 1036479.45 ft
 Station: 78+86.99 R2
 Offset: 38.71' RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
846.7	9-inch thick, dark brown SILTY CLAY --TOPSOIL-- Very stiff to hard, brown to gray SILTY CLAY to CLAY, trace gravel, moist	1	1	3 3 5	4.10 B	26	822.4	Boring terminated at 25.00 ft	9	3 4 6	2.46 B	20	
	--4-inch thick, brown sand lens--	2	2	4 7 7	8.61 B	18			10	3 5 7	2.21 B	28	
		3	3	5 18 12	9.84 B	17			11	5 11 14	6.97 B	19	
		4	4	5 11 14	6.97 B	19			12	5 11 14	9.43 B	19	
		5	5	5 11 14	9.43 B	19			13	6 11 14	9.84 B	19	
		6	6	6 11 14	9.84 B	19			14	6 11 13	7.79 B	17	
		7	7	6 11 13	7.79 B	17			15	6 5 9	2.46 B	18	
		8	8	6 5 9	2.46 B	18			16				

GENERAL NOTES
 Begin Drilling: 05-01-2024
 Complete Drilling: 05-01-2024
 Drilling Contractor: Wang Testing Services
 Drill Rig: 21GeoT[92%]
 Driller: AG&TC
 Logger: L. Corral
 Checked by: J. Bensen
 Drilling Method: 2.25" ID HSA; Boring backfilled upon completion

WATER LEVEL DATA
 While Drilling: Dry
 At Completion of Drilling: Dry
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG SB-01
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 851.91 ft
 North: 1975834.15 ft
 East: 1036404.32 ft
 Station: 78+93.77 R2
 Offset: 36.20 LT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
851.84	1.4-inch thick, black SILTY CLAY --TOPSOIL-- 7-inch thick, gray SANDY GRAVEL --FILL-- Stiff, brown and gray CLAY, trace gravel, damp	1	1	5 3 2	1.50 P	26	826.9	Boring terminated at 25.00 ft	9	15 13 9	1.97 B	17	
		2	2	4 4 4	1.50 P	22			10	11 8 13	1.23 B	15	
846.4	Very stiff, brown and gray LOAM, trace gravel, damp --RDR 2--	3	3	3 5 8	3.85 B	6			11	8 13	1.23 B	15	
843.9	Stiff to hard, brown to gray SILTY CLAY, trace gravel, damp --RDR 2--	4	4	8 9 12	6.89 B	16			12				
		5	5	7 9 15	5.00 B	17			13				
		6	6	7 9 12	4.02 B	16			14				
		7	7	6 8 8	3.94 B	18			15				
		8	8	5 5 12	2.95 B	18			16				

GENERAL NOTES
 Begin Drilling: 04-19-2024
 Complete Drilling: 04-19-2024
 Drilling Contractor: Wang Testing Services
 Drill Rig: 17D50T [81%]
 Driller: RH&JD
 Logger: M. Rojo
 Checked by: J. Bensen
 Drilling Method: 2.25" ID HSA; Boring backfilled upon completion

WATER LEVEL DATA
 While Drilling: Dry
 At Completion of Drilling: Dry
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

MODEL: STD-05 (BD-24)
 FILE NAME: p:\jhg\p\m\01.e-transys\corp\com\transys\corp\pwr\Documents\Projects_2020\CAD\1401200018\CAD02 - Sheets\21-Standards\21-GeoT\21-GeoT-SPT-SoilBorings.dgn



USER NAME = MatthewToussaint	DESIGNED - \$DESIGNED	REVISED -
PLOT SCALE = 39.99992000' / in.	DRAWN - \$DRAWN	REVISED -
PLOT DATE = 2/3/2026	CHECKED - \$CHECKED	REVISED -
	DATE - 02/02/2026	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SOIL BORINGS LOG

SCALE: SHEET 5 OF 28 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	356
BD600-06 (BD-24)		CONTRACT NO. 62K33		
ILLINOIS FED. AID PROJECT				

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BORING LOG DPB-02-ST
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 835.53 ft
 North: 1976381.70 ft
 East: 1036486.50 ft
 Station: 84+40.96
 Offset: 48.36 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
826.0	Very soft, black PEAT to Organic CLAY LOAM, trace gravel; moist to saturated -organic content: 48.4%	1	1	< 0.25	265								
		5											
	-organic content: 200.0% -L _v (%)=NP, P _v (%)=NP -%Gravel=0.2 -%Sand=36.4 -%Silt=42.4 -%Clay=21.0 -A-4 (0)	10	2	< 0.25	440								
826.0	Very soft, black PEAT to Organic SILTY CLAY, trace gravel; moist to saturated -organic content: 56.4%	10	3	< 0.25	506								
		15											
817.5	Boring terminated at 18.00 ft	20	4	< 0.25									

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	02-07-2022	Complete Drilling	02-07-2022
Drilling Contractor	Wang Testing Services	Drill Rig	21D50A [84%]
Driller	KS&AP	Logger	A. Scifers
Checked by	C. Marin	Time After Drilling	NA
Drilling Method	3" ID Shelby Tube; Boring backfilled upon completion	Depth to Water	NA

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BORING LOG RWB-12
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 861.82 ft
 North: 1977841.27 ft
 East: 1036373.38 ft
 Station: 99+00.91 R2
 Offset: 51.09 LT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
890.8	12-inch thick, black SILTY CLAY LOAM	1	1	5	3.12	17							
	-TOPSOIL-	12		15									
	Very stiff, brown SILTY CLAY LOAM, damp	15	2	6	5.49	17							
858.8	-FILL- -RDR 2-	15	3	5	3.44	21							
	Stiff to hard, brown to gray SILTY CLAY to SILTY CLAY LOAM, trace gravel; damp	15	4	4	3.28	22							
	-RDR 2-	15	5	4	1.64	16							
		15	6	5	1.80	16							
		15	7	2	1.64	15							
		15	8	5	1.48	15							
841.8	Boring terminated at 20.00 ft	20	8	5									

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	05-21-2024	Complete Drilling	05-21-2024
Drilling Contractor	Wang Testing Services	Drill Rig	20D50T [80%]
Driller	RH&JD	Logger	M. Rojo
Checked by	J. Bensen	Time After Drilling	NA
Drilling Method	2.25" ID HSA; Boring backfilled upon completion	Depth to Water	NA

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BORING LOG RWB-11
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 860.86 ft
 North: 1977816.28 ft
 East: 1036372.03 ft
 Station: 98+75.92 R2
 Offset: 52.48 LT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
860.8	6-inch thick, black SILTY CLAY LOAM	1	1	5	5.17	18							
	-TOPSOIL-	5		7									
	Hard, brown SILTY CLAY, trace gravel; damp	5	2	4	5.17	19							
857.9	-FILL- -RDR 2-	5	3	4	3.44	25							
	Stiff to hard, brown to gray SILTY CLAY to SILTY CLAY LOAM, trace gravel; damp	5	4	5	4.10	20							
	-RDR 2-	5	5	6	NR								
		10	6	3	1.64	15							
		15	7	4	2.21	18							
		15	8	4	2.05	15							
840.9	Boring terminated at 20.00 ft	20	8	7									

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	05-21-2024	Complete Drilling	05-21-2024
Drilling Contractor	Wang Testing Services	Drill Rig	20D50T [80%]
Driller	RH&JD	Logger	M. Rojo
Checked by	J. Bensen	Time After Drilling	NA
Drilling Method	2.25" ID HSA; Boring backfilled upon completion	Depth to Water	NA

MODEL: STD-06 (BD-32) FILE NAME: p:\jhg\p\m\01.e-transys\corp.com\transys\corp\pwr\Documents\Projects_2020\CAD\1401200018\CAD02 - Sheets\21-Standards\21-Standard\21-Standard\21-Standard\21-Standard.dgn



USER NAME	= MatthewToussaint	DESIGNED	= \$DESIGNED	REVISED	=
PLOT SCALE	= 39.99992000' / in.	DRAWN	= \$DRAWN	REVISED	=
PLOT DATE	= 2/3/2026	CHECKED	= \$CHECKED	REVISED	=
		DATE	= 02/02/2026	REVISED	=

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SOIL BORINGS LOG

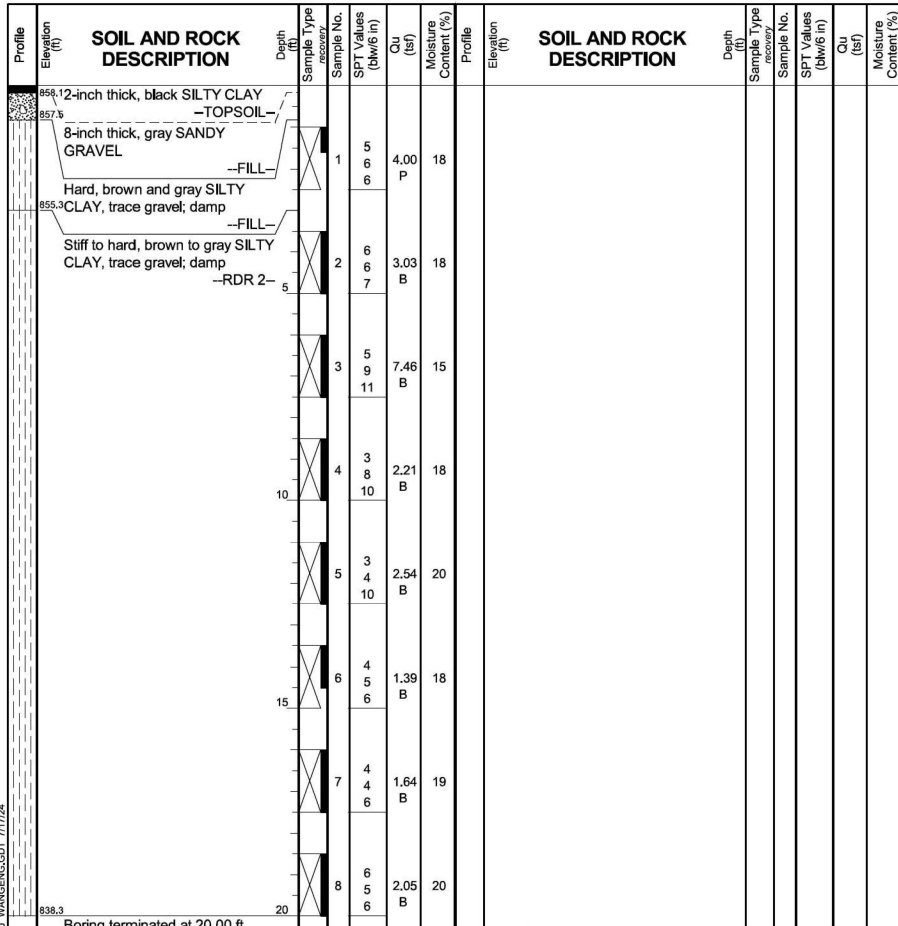
SCALE: SHEET 6 OF 28 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	357
	BD400-05 (BD-32)		CONTRACT NO. 62K33	
		ILLINOIS	FED. AID PROJECT	

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BORING LOG RWB-10
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 858.30 ft
 North: 1975709.13 ft
 East: 1036404.97 ft
 Station: 77+68.75 R2
 Offset: 36.09 LT



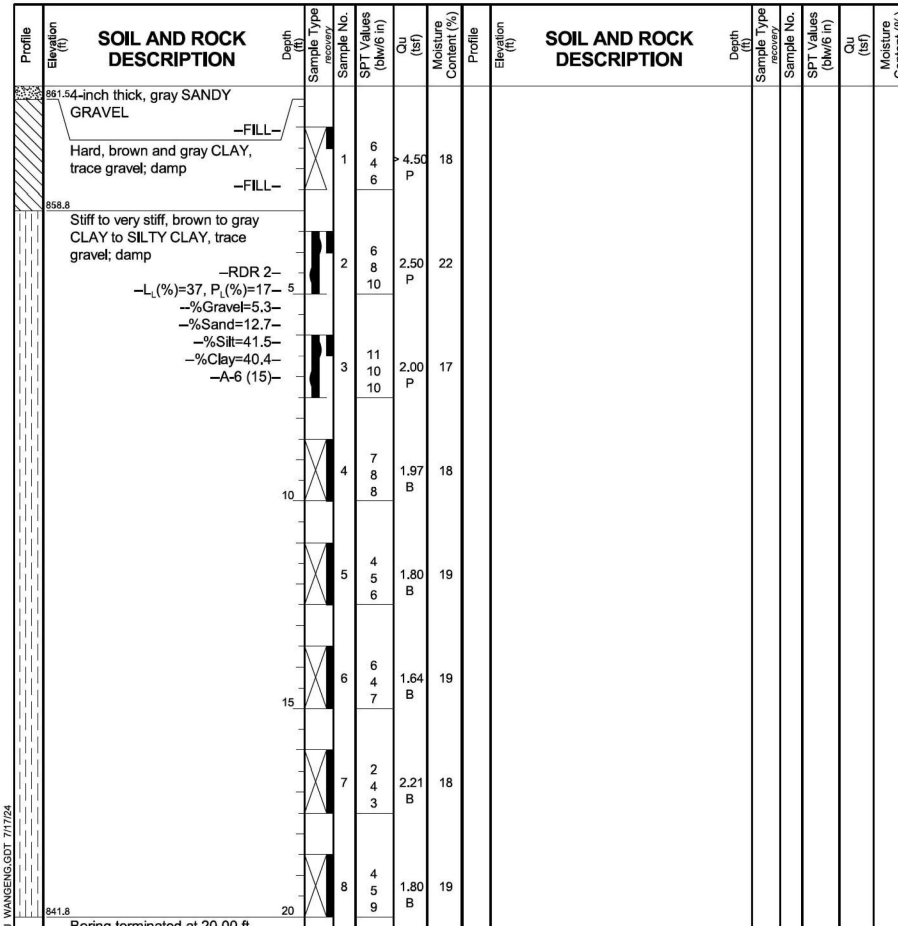
GENERAL NOTES
 Begin Drilling: 04-19-2024 Complete Drilling: 04-19-2024
 Drilling Contractor: Wang Testing Services Drill Rig: 17D50T [81%]
 Driller: RH&JD Logger: M. Rojo Checked by: J. Bensen
 Drilling Method: 2.25" ID HSA; Boring backfilled upon completion

WATER LEVEL DATA
 While Drilling: Dry
 At Completion of Drilling: Dry
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG RWB-09
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 861.79 ft
 North: 1975631.43 ft
 East: 1036408.26 ft
 Station: 76+91.03 R2
 Offset: 33.14 LT



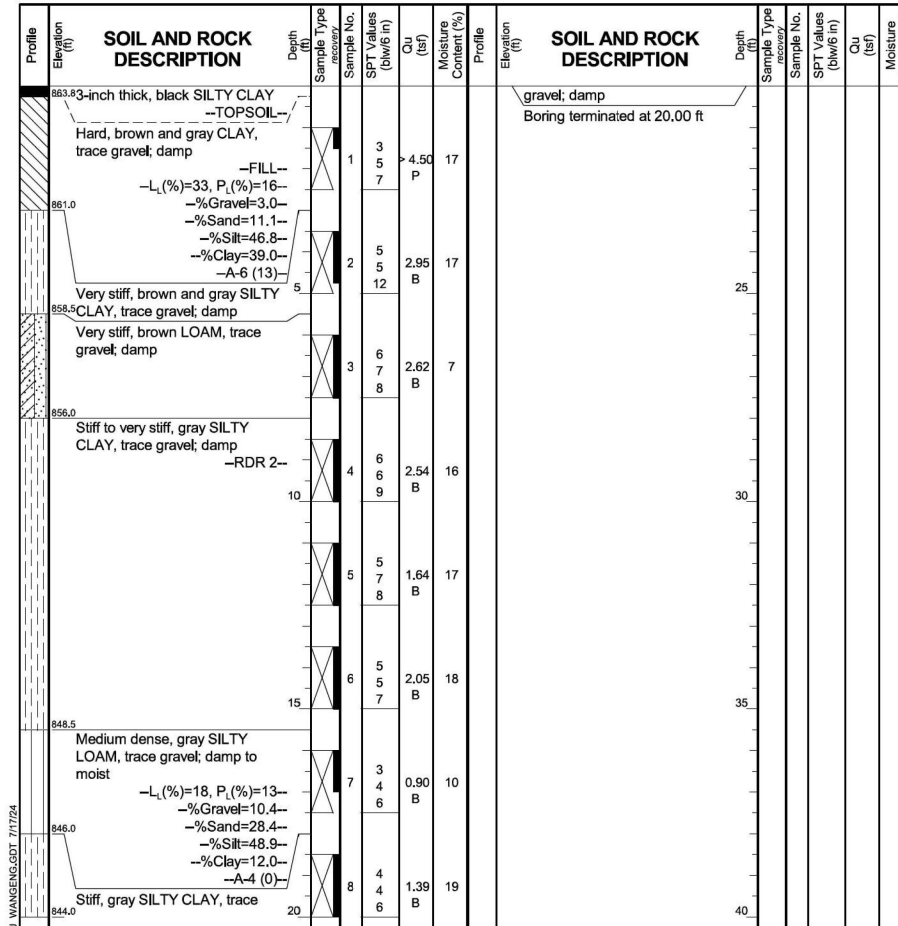
GENERAL NOTES
 Begin Drilling: 04-19-2024 Complete Drilling: 04-19-2024
 Drilling Contractor: Wang Testing Services Drill Rig: 17D50T [81%]
 Driller: RH&JD Logger: M. Rojo Checked by: J. Bensen
 Drilling Method: 2.25" ID HSA; Boring backfilled upon completion

WATER LEVEL DATA
 While Drilling: Dry
 At Completion of Drilling: Dry
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG RWB-08
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 864.00 ft
 North: 1975557.78 ft
 East: 1036407.53 ft
 Station: 76+17.38 R2
 Offset: 34.19 LT



GENERAL NOTES
 Begin Drilling: 04-19-2024 Complete Drilling: 04-19-2024
 Drilling Contractor: Wang Testing Services Drill Rig: 17D50T [81%]
 Driller: RH&JD Logger: M. Rojo Checked by: J. Bensen
 Drilling Method: 2.25" ID HSA; Boring backfilled upon completion

WATER LEVEL DATA
 While Drilling: Dry
 At Completion of Drilling: Dry
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

MODEL: STD-07 (BD-33) FILE NAME: p:\jhg\p\10120018\CAD02 - Sheets\21-Standard\21-Standard\21-Standard\21-Standard\21-Standard\21-Standard.dgn



USER NAME = MatthewToussaint	DESIGNED - \$DESIGNED	REVISED -
PLOT SCALE = 39.99992000' / in.	DRAWN - \$DRAWN	REVISED -
PLOT DATE = 2/3/2026	CHECKED - \$CHECKED	REVISED -
	DATE - 02/02/2026	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SOIL BORINGS LOG

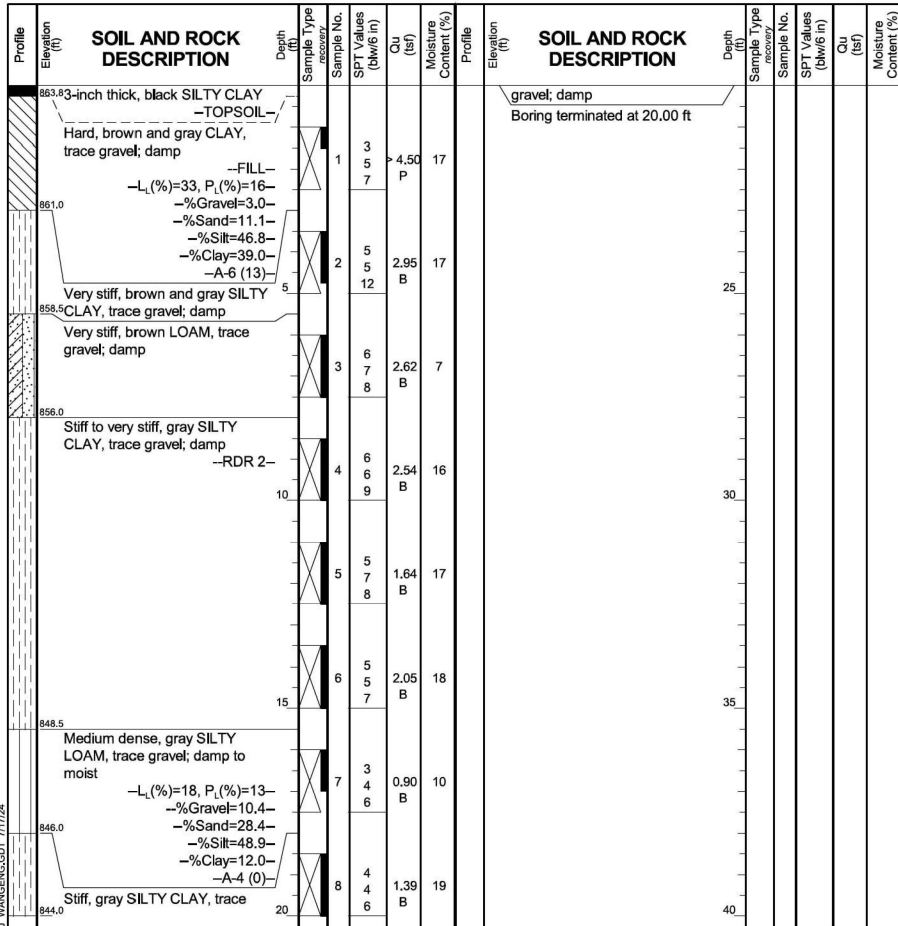
SCALE: SHEET 7 OF 28 SHEETS STA. TO STA.

F.A.P. RTE. 362	SECTION 2019-161-W	COUNTY COOK	TOTAL SHEETS 666	SHEET NO. 358
BD400-06 (BD-33)		CONTRACT NO. 62K33		
ILLINOIS FED. AID PROJECT				

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BORING LOG RWB-08
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 864.00 ft
 North: 1975557.78 ft
 East: 1036407.53 ft
 Station: 76+17.38 R2
 Offset: 34.19 LT



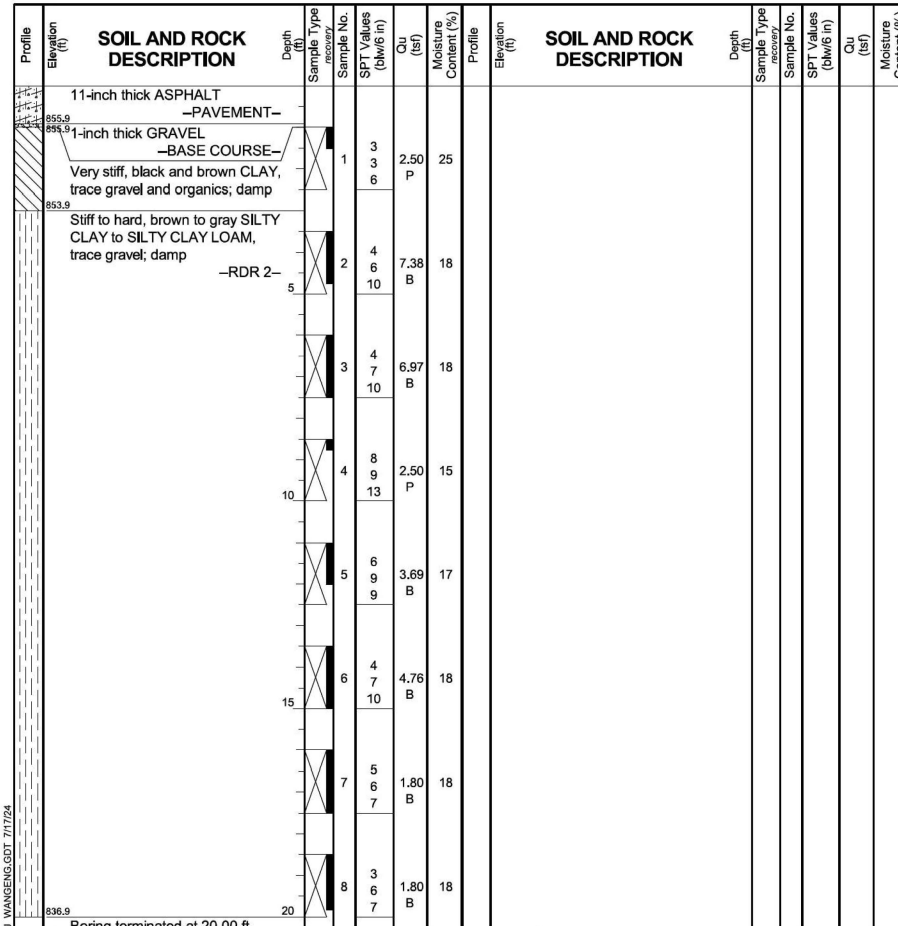
GENERAL NOTES
 Begin Drilling: 04-19-2024 Complete Drilling: 04-19-2024
 Drilling Contractor: Wang Testing Services Drill Rig: 17D50T [81%]
 Driller: RH&JD Logger: M. Rojo Checked by: J. Bensen
 Drilling Method: 2.25" ID HSA; Boring backfilled upon completion

WATER LEVEL DATA
 While Drilling: Dry
 At Completion of Drilling: Dry
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG RWB-07
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 856.85 ft
 North: 1975736.40 ft
 East: 1036451.88 ft
 Station: 77+95.81 R2
 Offset: 10.93 RT



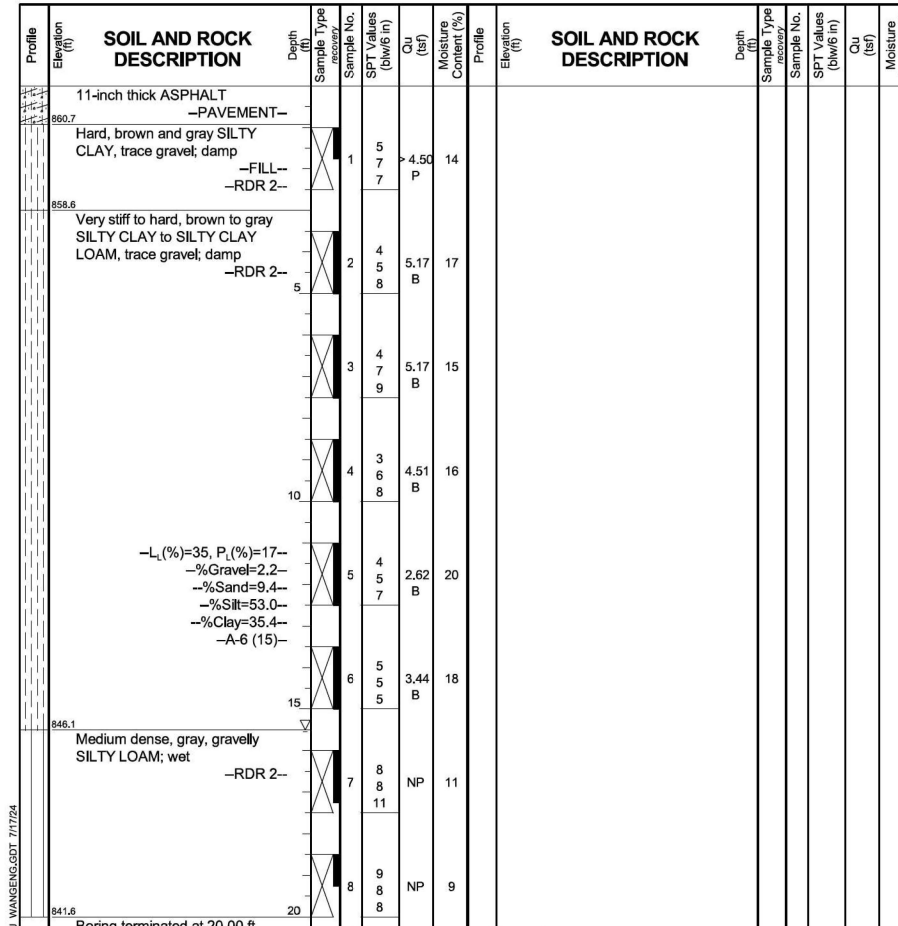
GENERAL NOTES
 Begin Drilling: 05-08-2024 Complete Drilling: 05-08-2024
 Drilling Contractor: Wang Testing Services Drill Rig: 21GeoT[92%]
 Driller: AG&TC Logger: M. Rojo Checked by: J. Bensen
 Drilling Method: 2.25" ID HSA; Boring backfilled upon completion

WATER LEVEL DATA
 While Drilling: Dry
 At Completion of Drilling: Dry
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG RWB-06
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 861.65 ft
 North: 1975635.10 ft
 East: 1036451.45 ft
 Station: 76+94.52 R2
 Offset: 10.07 RT



GENERAL NOTES
 Begin Drilling: 05-08-2024 Complete Drilling: 05-08-2024
 Drilling Contractor: Wang Testing Services Drill Rig: 21GeoT[92%]
 Driller: AG&TC Logger: M. Rojo Checked by: J. Bensen
 Drilling Method: 2.25" ID HSA; Boring backfilled upon completion

WATER LEVEL DATA
 While Drilling: 15.50 ft
 At Completion of Drilling: Dry
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

MODEL: STD-08 (TC-10) FILE NAME: p:\jhg\p\m101.e-transys\corp.com\transys\corp\pwr\Documents\Projects_2020\CAD\1401200018\CAD02 - Sheets\21-Standard\B062K33-SPT-SoilBorings.dgn



USER NAME = MatthewToussaint	DESIGNED - \$DESIGNED	REVISED -
PLOT SCALE = 39.99992000' / in.	DRAWN - \$DRAWN	REVISED -
PLOT DATE = 2/3/2026	CHECKED - \$CHECKED	REVISED -
	DATE - 02/02/2026	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SOIL BORINGS LOG

F.A.P. RTE. 362	SECTION 2019-161-W	COUNTY COOK	TOTAL SHEETS 666	SHEET NO. 359
TC-10		CONTRACT NO. 62K33		
ILLINOIS FED. AID PROJECT				

SCALE: SHEET 8 OF 28 SHEETS STA. TO STA.

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BORING LOG RWB-05
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 840.41 ft
 North: 1976238.74 ft
 East: 1036396.46 ft
 Station: 82+98.38
 Offset: 42.30 LT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (ksf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (ksf)	Moisture Content (%)
839.6	10-inch thick, black SANDY LOAM; moist --TOPSOIL--	1	5	1.48	17								
	Stiff to very stiff, black and gray CLAY LOAM to SILTY CLAY, trace to some gravel; moist --FILL-- --RDR 2-- --wet spoon--	2	3, 4	3.20	16								
		3	3, 3	1.56	21								
832.4	Medium stiff, black PEAT; interbedded with Organic Silty Clay; wet --RDR 2--	4	3, 1, 2	0.82	237								
829.9	Medium stiff, gray Organic SILTY CLAY; wet --RDR 1--	5	0, 0, 0	0.57	161								
827.4	Medium stiff, light gray CLAY to SILTY CLAY LOAM, trace gravel; moist --RDR 2--	6	2, 2, 2	0.57	24								
824.9	Very stiff, gray SILTY CLAY, trace gravel; moist --RDR 2--	7	4, 5, 6	2.05	18								
820.4		8	5, 6, 9	2.62	21								

GENERAL NOTES
 Begin Drilling 02-08-2022 Complete Drilling 02-08-2022
 Drilling Contractor Wang Testing Services Drill Rig 21D50A [84%]
 Driller KS&AP Logger A. Scifers Checked by C. Marin
 Drilling Method 2.25" ID HSA; Boring backfilled upon completion

WATER LEVEL DATA
 While Drilling 3.50 ft
 At Completion of Drilling Dry
 Time After Drilling NA
 Depth to Water NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG RWB-04
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 841.20 ft
 North: 1976142.83 ft
 East: 1036396.44 ft
 Station: 82+02.48
 Offset: 42.74 LT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (ksf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (ksf)	Moisture Content (%)
839.8	17-inch thick, black SILTY CLAY; moist --TOPSOIL--	1	2, 3, 3	1.50	22								
	Soft to stiff, brown and gray SILTY CLAY, trace gravel; moist --FILL-- --RDR 1 to 2-- --L _c (%)=43, P _c (%)=20-- --%Gravel=2.7-- --%Sand=11.0-- --%Silt=53.0-- --%Clay=33.3-- --A-7-6 (20)--	2	2, 3, 3	0.41	21								
		3	3, 4, 4	1.39	23								
	--wet spoon--	4	4, 3, 2	1.72	26								
		5	3, 3, 4	0.98	24								
828.2	Medium stiff, dark gray SILTY CLAY LOAM, some organic matter; wet --sand seams-- --RDR 2--	6	2, 3, 3	0.57	51								
825.7	Very soft (<0.25P), dark gray CLAY to SILTY CLAY; moist --silt seams; saturated-- --RDR 1--	7	3, 4, 6	2.13	17								
824.8	Stiff to very stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel; moist --RDR 2--	8	4, 6, 9	1.80	18								

GENERAL NOTES
 Begin Drilling 02-08-2022 Complete Drilling 02-08-2022
 Drilling Contractor Wang Testing Services Drill Rig 21D50A [84%]
 Driller KS&AP Logger A. Scifers Checked by C. Marin
 Drilling Method 2.25" ID HSA; Boring backfilled upon completion

WATER LEVEL DATA
 While Drilling 8.50 ft
 At Completion of Drilling Dry
 Time After Drilling NA
 Depth to Water NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG RWB-03-ST
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 843.51 ft
 North: 1976049.28 ft
 East: 1036395.93 ft
 Station: 81+08.93
 Offset: 43.65 LT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (ksf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (ksf)	Moisture Content (%)
	--blind drilling, 0 to 14 feet--												
830.5	Stiff, gray SILTY CLAY, trace gravel; moist --organic content: 7.9%-- --L _c (%)=45, P _c (%)=17-- --%Gravel=1.2-- --%Sand=11.4-- --%Silt=50.2-- --%Clay=37.2-- --A-7-6 (25)--	1			1.00	27							
827.5	Very soft, black and gray PEAT --organic content: 189%--												
825.2	Very soft, gray Organic SILTY CLAY, trace gravel; moist --organic content: 43.8%--	2			< 0.25	276							

GENERAL NOTES
 Begin Drilling 02-15-2022 Complete Drilling 02-15-2022
 Drilling Contractor Wang Testing Services Drill Rig 21D50A [84%]
 Driller KS&AP Logger A. Scifers Checked by C. Marin
 Drilling Method 3.25" ID HSA; Boring backfilled upon completion

WATER LEVEL DATA
 While Drilling Dry
 At Completion of Drilling Dry
 Time After Drilling NA
 Depth to Water NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

MODEL: STD-09 (TC-13)
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USER NAME = MatthewToussaint	DESIGNED - \$DESIGNED	REVISED -
PLOT SCALE = 39.99992000' / in.	DRAWN - \$DRAWN	REVISED -
PLOT DATE = 2/3/2026	CHECKED - \$CHECKED	REVISED -
	DATE - 02/02/2026	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SOIL BORINGS LOG

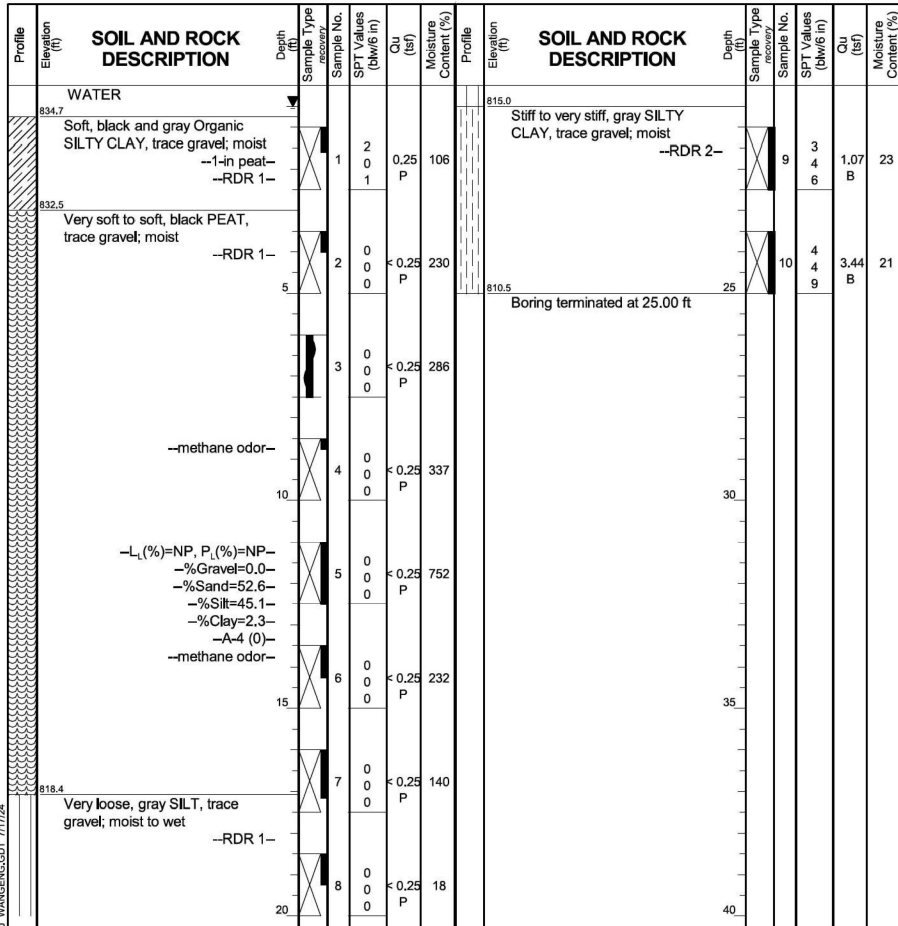
SCALE: SHEET 9 OF 28 SHEETS STA. TO STA.

F.A.P. RTE. 362	SECTION 2019-161-W	COUNTY COOK	TOTAL SHEETS 666	SHEET NO. 360
TC-13		CONTRACT NO. 62K33		
ILLINOIS FED. AID PROJECT				

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BORING LOG DPB-02
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 835.49 ft
 North: 1976376.70 ft
 East: 1036486.50 ft
 Station: 84+35.96
 Offset: 48.34 RT



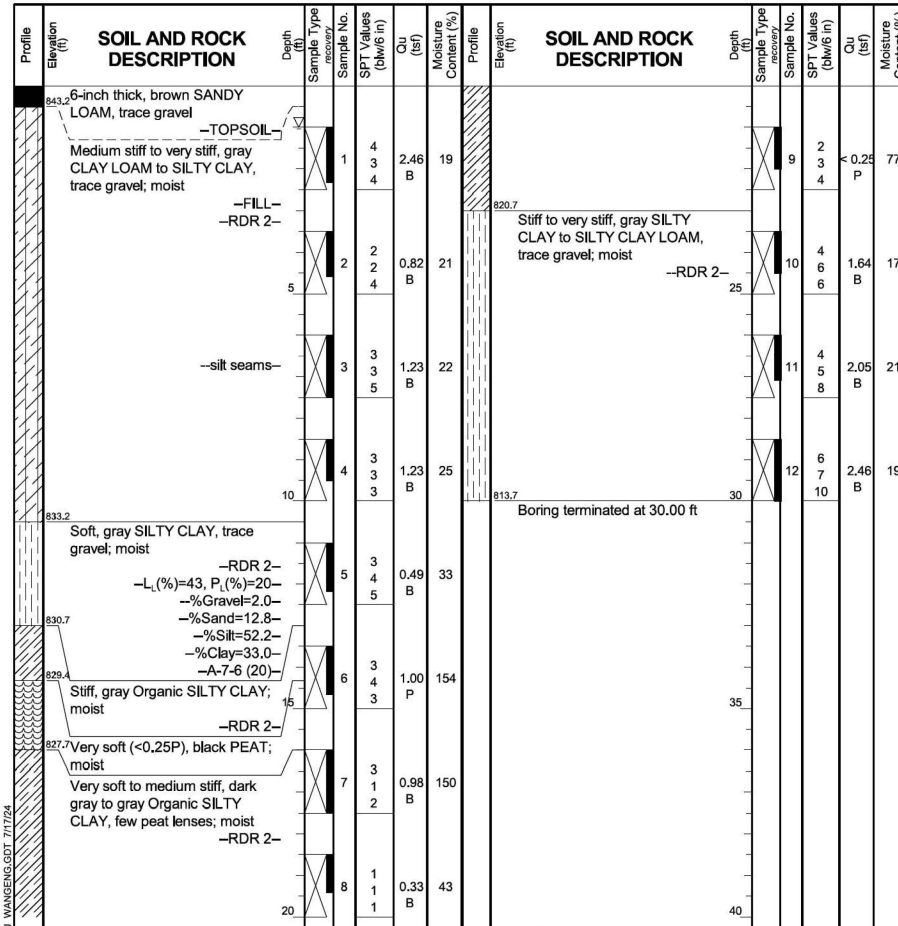
GENERAL NOTES
 Begin Drilling: 02-04-2022 Complete Drilling: 02-04-2022
 Drilling Contractor: Wang Testing Services Drill Rig: 21D50A [84%]
 Driller: KS&AP Logger: A. Scifers Checked by: C. Marin
 Drilling Method: 2.25" ID HSA; Boring backfilled upon completion

WATER LEVEL DATA
 While Drilling: 0.50 ft
 At Completion of Drilling: 0.50 ft
 Time After Drilling: NA
 Depth to Water: NA

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BORING LOG RWB-03
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 843.68 ft
 North: 1976044.28 ft
 East: 1036395.93 ft
 Station: 81+03.93
 Offset: 43.67 LT



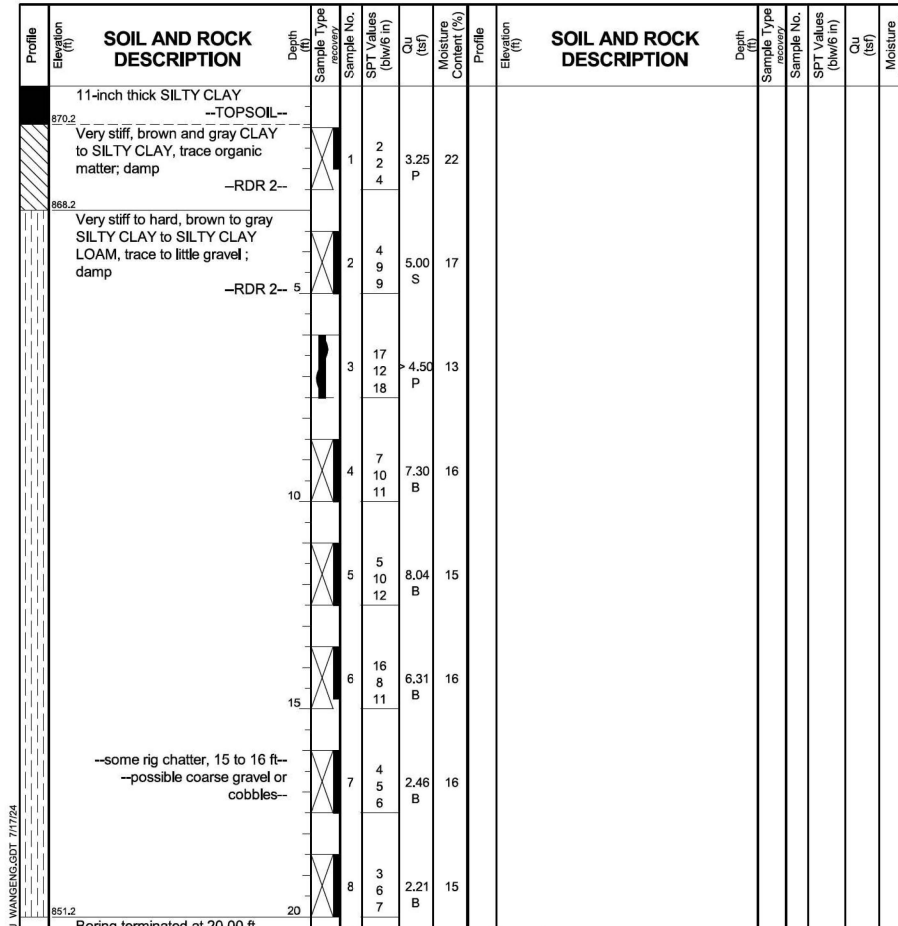
GENERAL NOTES
 Begin Drilling: 02-08-2022 Complete Drilling: 02-08-2022
 Drilling Contractor: Wang Testing Services Drill Rig: 21D50A [84%]
 Driller: KS&AP Logger: A. Scifers Checked by: C. Marin
 Drilling Method: 2.25" ID HSA; Boring backfilled upon completion

WATER LEVEL DATA
 While Drilling: 1.00 ft
 At Completion of Drilling: Dry
 Time After Drilling: NA
 Depth to Water: NA

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BORING LOG RWB-02
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 871.15 ft
 North: 1975535.46 ft
 East: 1036484.81 ft
 Station: 75+94.73
 Offset: 43.00 RT



GENERAL NOTES
 Begin Drilling: 03-08-2022 Complete Drilling: 03-08-2022
 Drilling Contractor: Wang Testing Services Drill Rig: 21GeoA[96%]
 Driller: A&C Logger: M. Sadowski Checked by: C. Marin
 Drilling Method: 3.25" ID HSA; Boring backfilled upon completion

WATER LEVEL DATA
 While Drilling: Dry
 At Completion of Drilling: Dry
 Time After Drilling: NA
 Depth to Water: NA

MODEL: STD-10 (TC-16) FILE NAME: p:\jhg\p\m101.e-transyscorp.com\transyscorp\pwr\Documents\Projects_2020\CAD\1401200018\CAD02 - Sheets\21-Standard\21D50A [84%] SPT-SiltBorings.dgn



USER NAME = MatthewToussaint	DESIGNED - \$DESIGNED	REVISED -
PLOT SCALE = 39.99992000' / in.	CHECKED - \$CHECKED	REVISED -
PLOT DATE = 2/3/2026	DATE - 02/02/2026	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SOIL BORINGS LOG

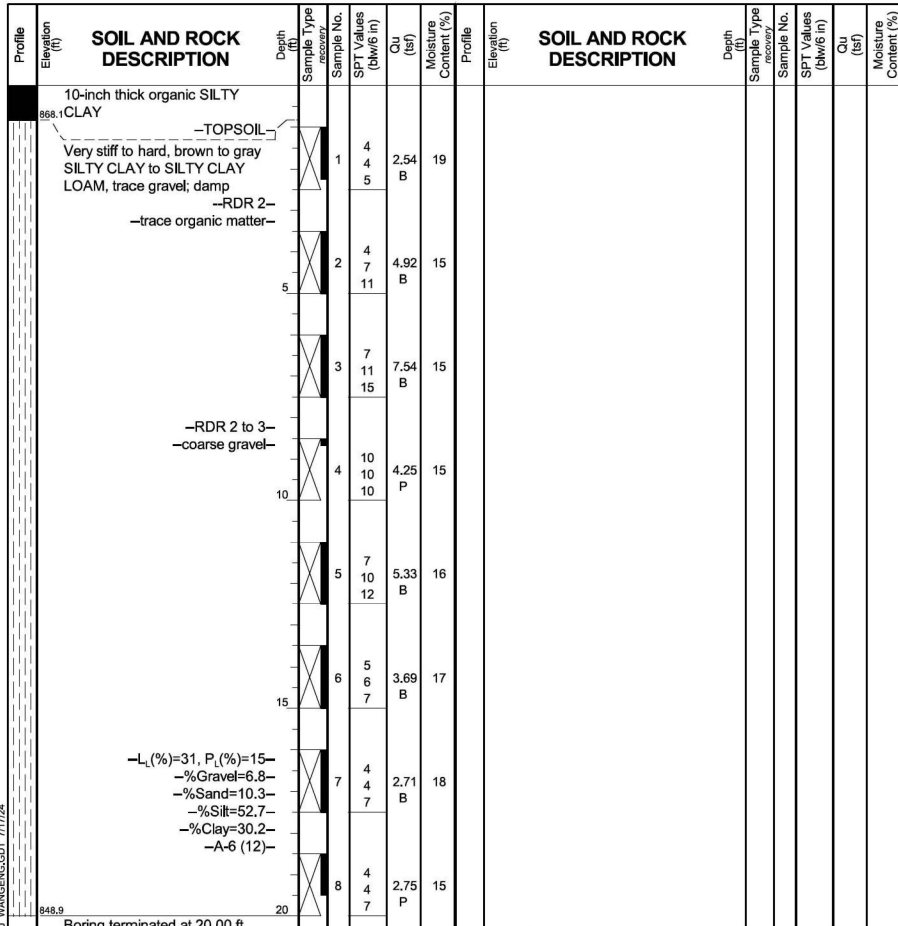
SCALE: SHEET 10 OF 28 SHEETS STA. TO STA.

F.A.P. RTE. 362	SECTION 2019-161-W	COUNTY COOK	TOTAL SHEETS 666	SHEET NO. 361
TC-16		CONTRACT NO. 62K33		
ILLINOIS FED. AID PROJECT				

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BORING LOG RWB-01
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 868.93 ft
 North: 1975473.74 ft
 East: 1036477.91 ft
 Station: 75+33.04
 Offset: 35.82 RT



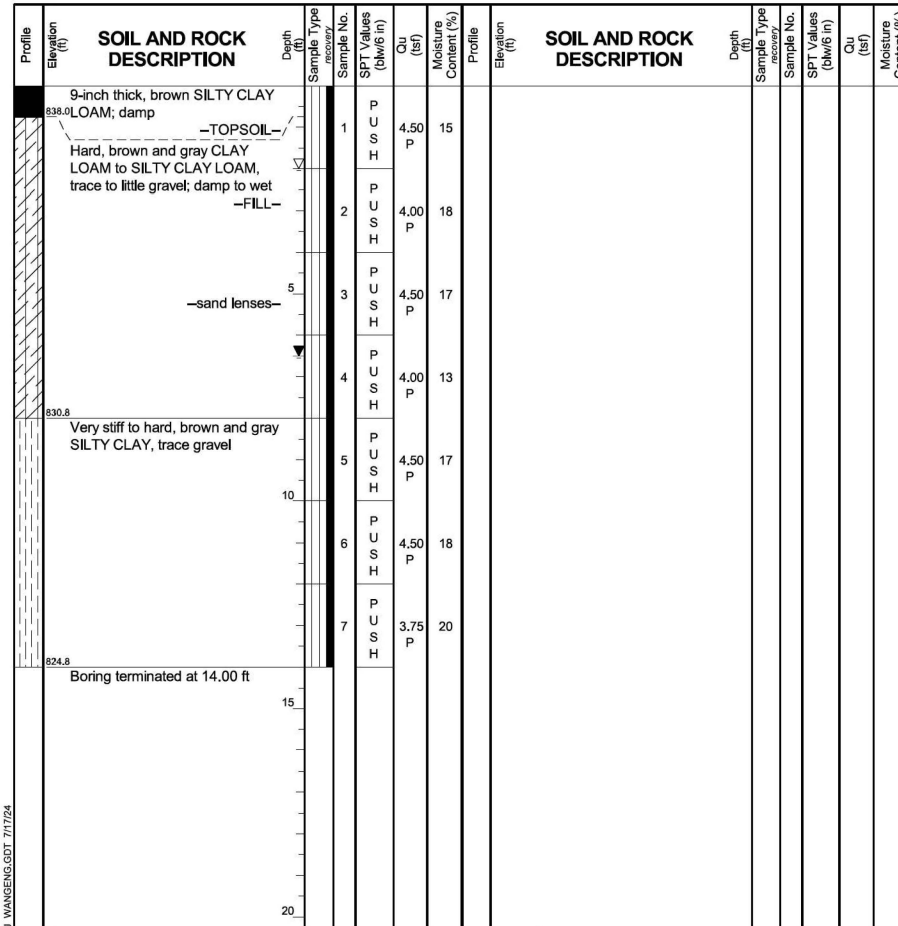
GENERAL NOTES
 Begin Drilling: 03-08-2022 Complete Drilling: 03-08-2022
 Drilling Contractor: Wang Testing Services Drill Rig: 21GeoA[96%]
 Driller: A&C Logger: M. Sadowski Checked by: C. Marin
 Drilling Method: 3.25" ID HSA; Boring backfilled upon completion

WATER LEVEL DATA
 While Drilling: Dry
 At Completion of Drilling: Dry
 Time After Drilling: NA
 Depth to Water: NA

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BORING LOG PT-13
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 838.78 ft
 North: 1976775.55 ft
 East: 1036495.15 ft
 Station: 88+34.27
 Offset: 59.84 RT



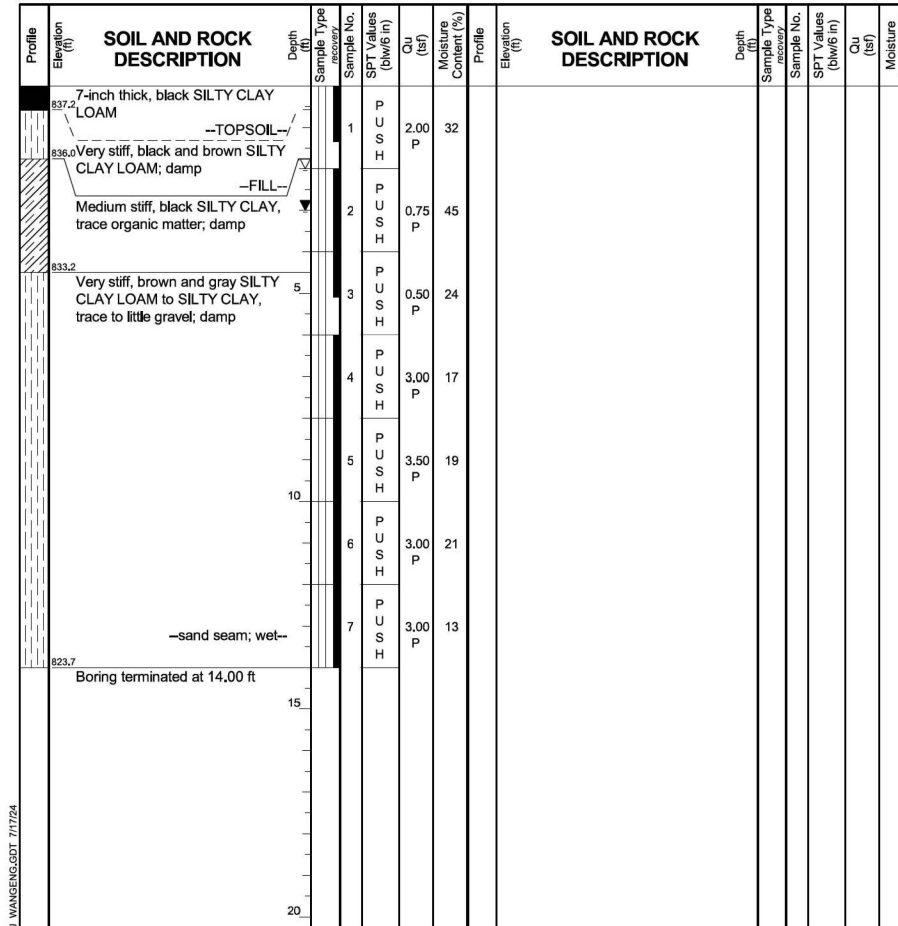
GENERAL NOTES
 Begin Drilling: 07-26-2022 Complete Drilling: 07-26-2022
 Drilling Contractor: Wang Testing Services Drill Rig: Geoprobe HA
 Driller: KS&AG Logger: E. Greenwood Checked by: C. Marin
 Drilling Method: 1" ID HSA; Boring backfilled upon completion

WATER LEVEL DATA
 While Drilling: 2.00 ft
 At Completion of Drilling: 6.50 ft
 Time After Drilling: NA
 Depth to Water: NA

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BORING LOG PT-12
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 837.74 ft
 North: 1976651.53 ft
 East: 1036492.65 ft
 Station: 87+10.29
 Offset: 55.77 RT



GENERAL NOTES
 Begin Drilling: 07-26-2022 Complete Drilling: 07-26-2022
 Drilling Contractor: Wang Testing Services Drill Rig: Geoprobe HA
 Driller: KS&AG Logger: E. Greenwood Checked by: C. Marin
 Drilling Method: 1" ID HSA; Boring backfilled upon completion

WATER LEVEL DATA
 While Drilling: 2.00 ft
 At Completion of Drilling: 3.00 ft
 Time After Drilling: NA
 Depth to Water: NA

MODEL: STD-11 (TC-22) FILE NAME: p:\jhg\p\m101.e-transys\corp\m101\Documents\Projects_2020\CAD\10120001\B\CAD02 - Sheets\21-Standard\B\21K33-SPT-SoilBorings.dgn



USER NAME = MatthewToussaint	DESIGNED - \$DESIGNED	REVISED -
PLOT SCALE = 39.99992000' / 1 in.	DRAWN - \$DRAWN	REVISED -
PLOT DATE = 2/3/2026	CHECKED - \$CHECKED	REVISED -
	DATE - 02/02/2026	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SOIL BORINGS LOG

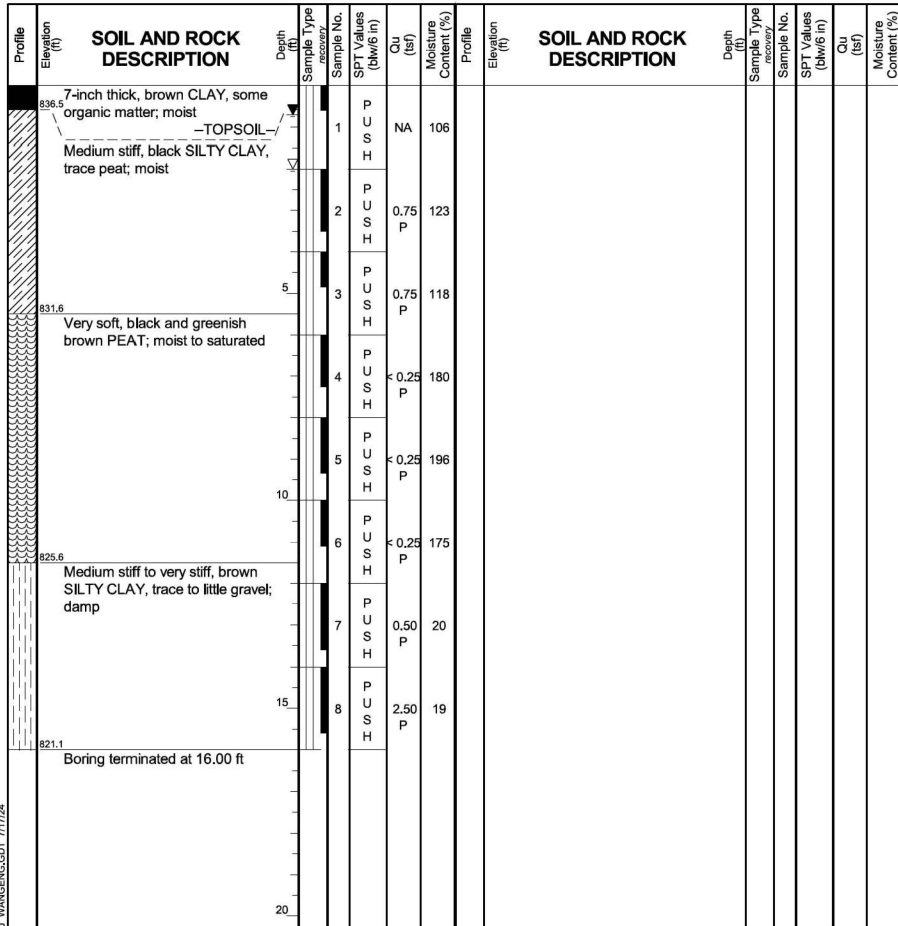
SCALE: SHEET 11 OF 28 SHEETS STA. TO STA.

F.A.P. RTE. 362	SECTION 2019-161-W	COUNTY COOK	TOTAL SHEETS 666	SHEET NO. 362
TC-22		CONTRACT NO. 62K33		
ILLINOIS FED. AID PROJECT				

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BORING LOG PT-11
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 837.11 ft
 North: 1976578.30 ft
 East: 1036485.67 ft
 Station: 86+37.56
 Offset: 48.38 RT



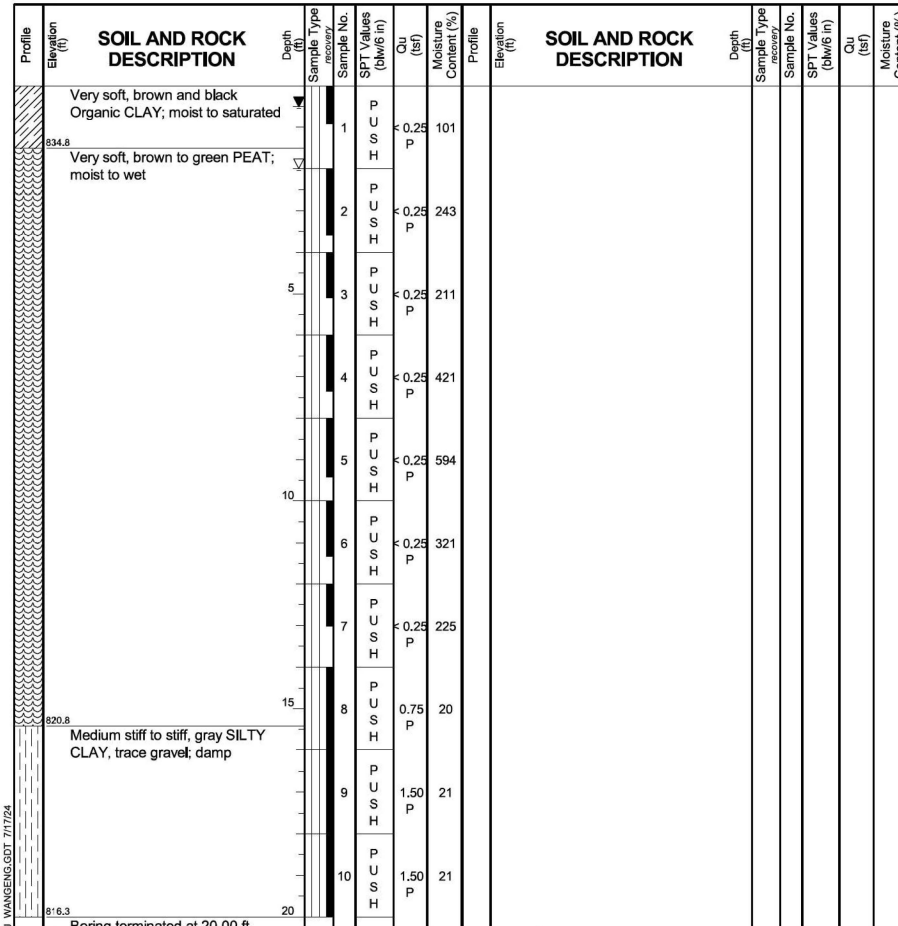
GENERAL NOTES
 Begin Drilling: 07-26-2022 Complete Drilling: 07-26-2022
 Drilling Contractor: Wang Testing Services Drill Rig: Geoprobe HA
 Driller: KS&AG Logger: E. Greenwood Checked by: C. Marin
 Drilling Method: 1" ID HSA; Boring backfilled upon completion

WATER LEVEL DATA
 While Drilling: 2.00 ft
 At Completion of Drilling: 0.70 ft
 Time After Drilling: NA
 Depth to Water: NA

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BORING LOG PT-10
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 836.26 ft
 North: 1976475.78 ft
 East: 1036480.21 ft
 Station: 85+35.06
 Offset: 42.48 RT



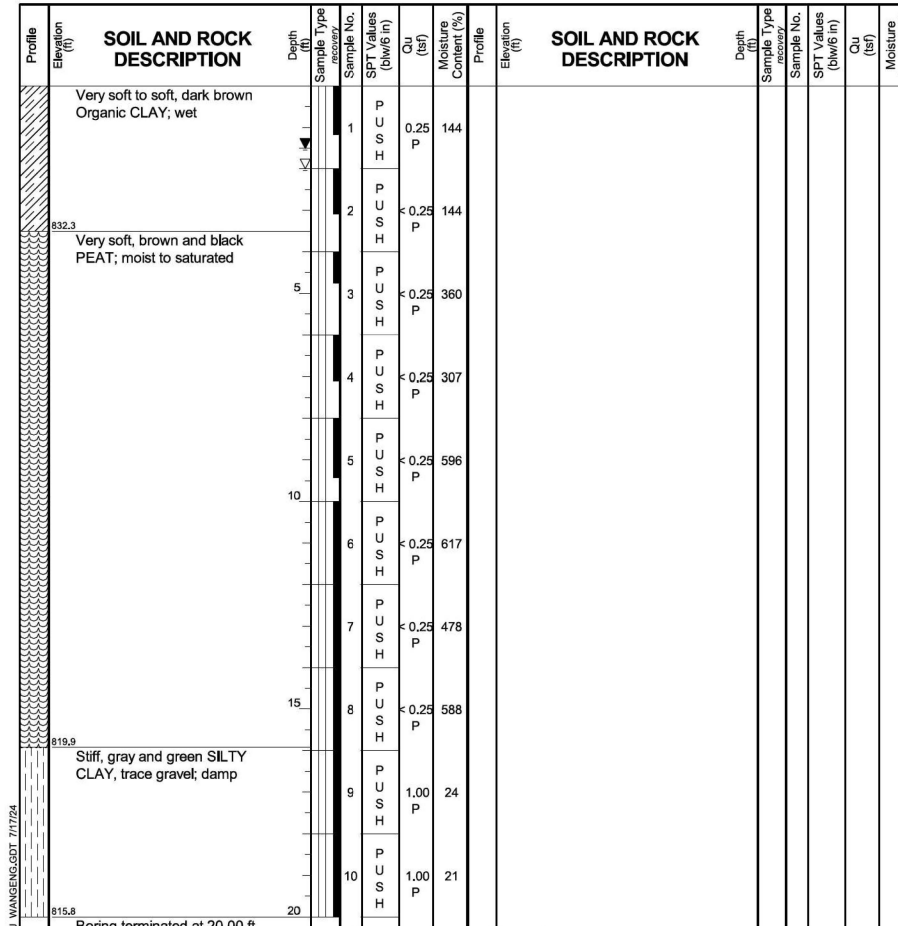
GENERAL NOTES
 Begin Drilling: 07-27-2022 Complete Drilling: 07-27-2022
 Drilling Contractor: Wang Testing Services Drill Rig: Geoprobe HA
 Driller: KS&AG Logger: E. Greenwood Checked by: C. Marin
 Drilling Method: 1" ID HSA; Boring backfilled upon completion

WATER LEVEL DATA
 While Drilling: 2.00 ft
 At Completion of Drilling: 0.50 ft
 Time After Drilling: NA
 Depth to Water: NA

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BORING LOG PT-09
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 835.83 ft
 North: 1976417.50 ft
 East: 1036483.35 ft
 Station: 84+76.76
 Offset: 45.36 RT



GENERAL NOTES
 Begin Drilling: 07-27-2022 Complete Drilling: 07-27-2022
 Drilling Contractor: Wang Testing Services Drill Rig: Geoprobe HA
 Driller: KS&AG Logger: E. Greenwood Checked by: C. Marin
 Drilling Method: 1" ID HSA; Boring backfilled upon completion

WATER LEVEL DATA
 While Drilling: 2.00 ft
 At Completion of Drilling: 1.50 ft
 Time After Drilling: NA
 Depth to Water: NA

MODEL: STD-12 (TC-26) FILE NAME: p:\jhg\p\m\01.e-transys\corp\transys\corp\pwr\Documents\Projects_2020\CAD\0140120001\01\CAD\02 - Sheets\21-Standard\01\02\K33-SPT-SoilBorings.dgn



USER NAME = MatthewToussaint	DESIGNED - \$DESIGNED	REVISED -
PLOT SCALE = 39.99992000' / in.	DRAWN - \$DRAWN	REVISED -
PLOT DATE = 2/3/2026	CHECKED - \$CHECKED	REVISED -
	DATE - 02/02/2026	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SOIL BORINGS LOG

SCALE: SHEET 12 OF 28 SHEETS STA. TO STA.

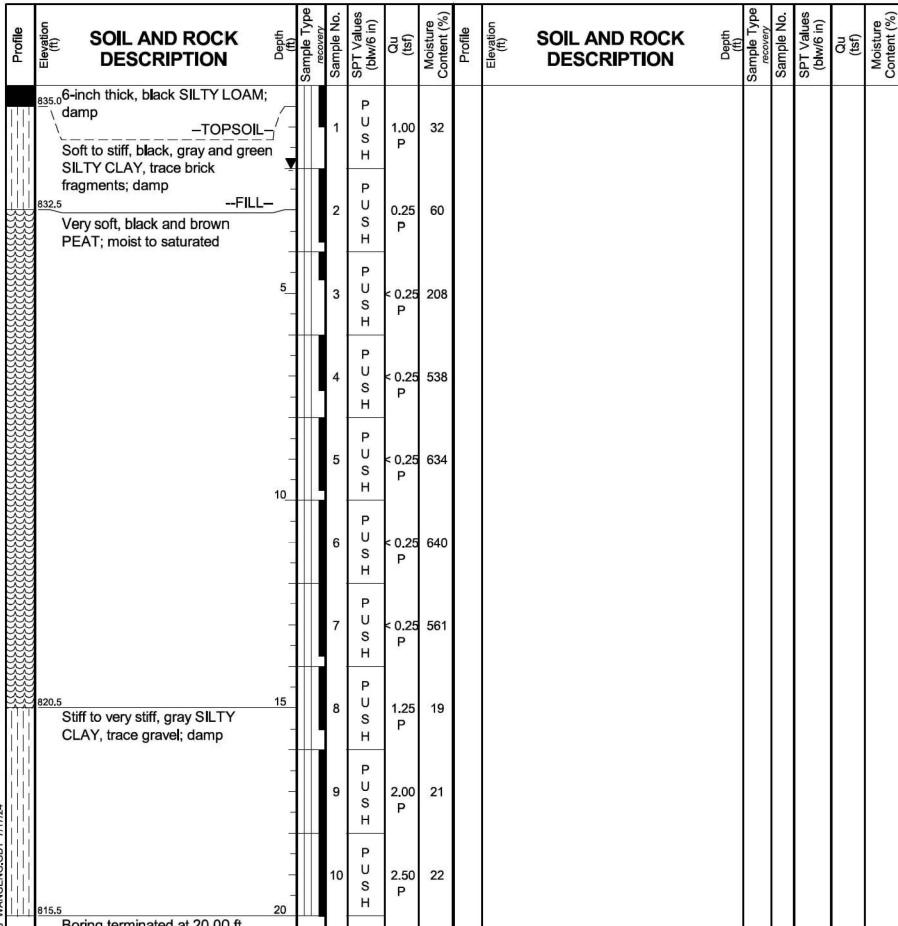
F.A.P. RTE. 362	SECTION 2019-161-W	COUNTY COOK	TOTAL SHEETS 666	SHEET NO. 363
TC-26		CONTRACT NO. 62K33		
ILLINOIS FED. AID PROJECT				

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BORING LOG PT-08
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 835.47 ft
 North: 1976302.23 ft
 East: 1036484.96 ft
 Station: 83+61.49
 Offset: 46.47 RT

Page 1 of 1



GENERAL NOTES
 Begin Drilling 07-27-2022 Complete Drilling 07-27-2022
 Drilling Contractor **Wang Testing Services**, Drill Rig **Geoprobe HA**
 Driller **KS&AG**, Logger **E. Greenwood** Checked by **C. Marin**
 Drilling Method **.1" ID HSA; Boring backfilled upon completion**

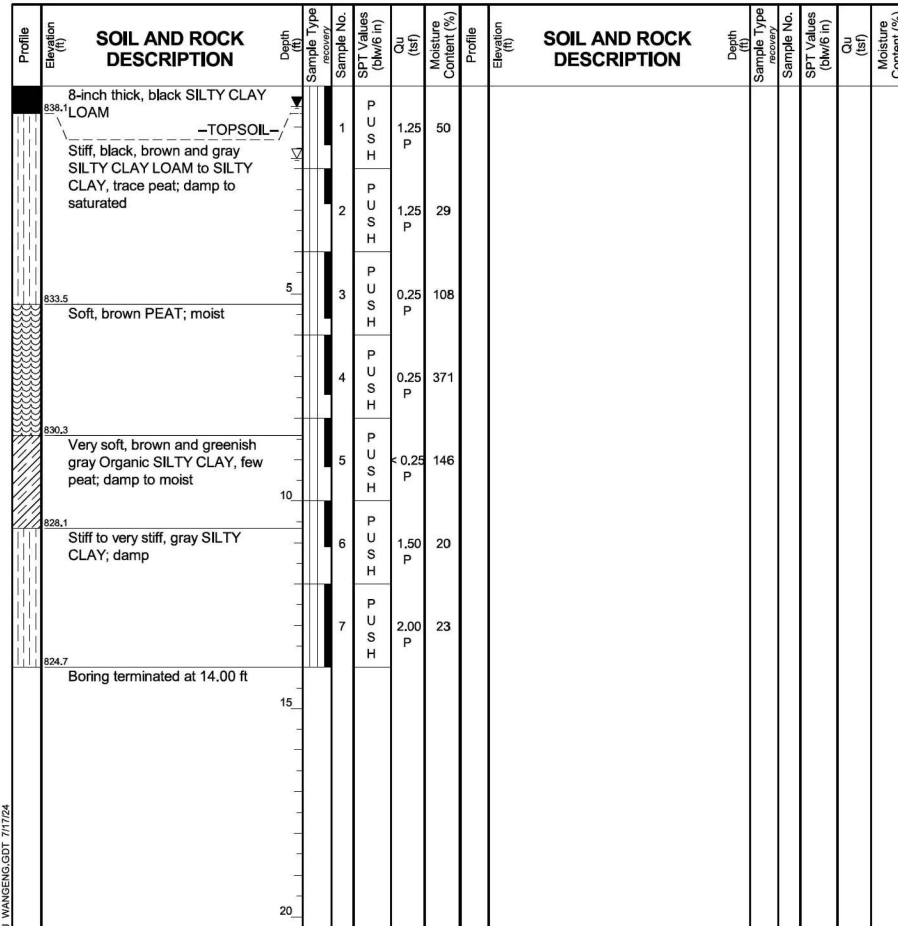
WATER LEVEL DATA
 While Drilling 2.00 ft
 At Completion of Drilling 2.00 ft
 Time After Drilling NA
 Depth to Water NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG PT-07
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 838.71 ft
 North: 1976134.67 ft
 East: 1036480.37 ft
 Station: 81+93.95
 Offset: 41.16 RT

Page 1 of 1



GENERAL NOTES
 Begin Drilling 07-26-2022 Complete Drilling 07-26-2022
 Drilling Contractor **Wang Testing Services**, Drill Rig **Geoprobe HA**
 Driller **KS&AG**, Logger **E. Greenwood** Checked by **C. Marin**
 Drilling Method **.1" ID HSA; Boring backfilled upon completion**

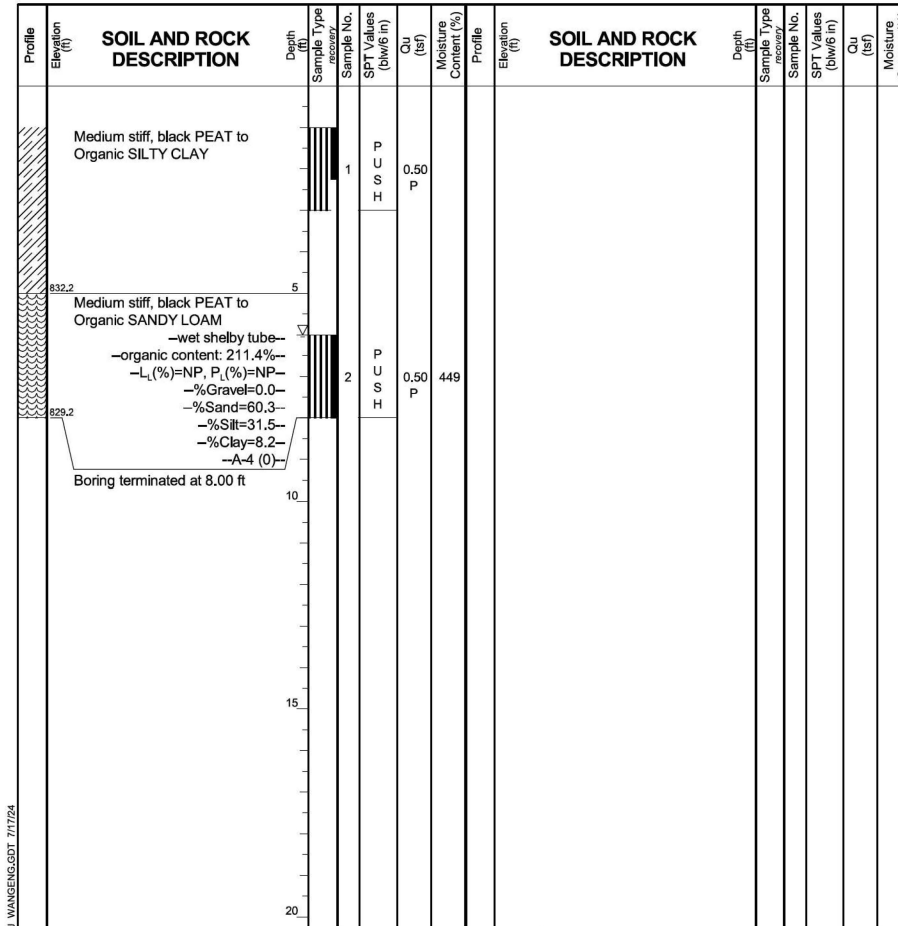
WATER LEVEL DATA
 While Drilling 1.75 ft
 At Completion of Drilling 0.50 ft
 Time After Drilling NA
 Depth to Water NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG DPB-01-ST
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 837.19 ft
 North: 1976199.26 ft
 East: 1036480.11 ft
 Station: 82+58.54
 Offset: 41.18 RT

Page 1 of 1



GENERAL NOTES
 Begin Drilling 02-07-2022 Complete Drilling 02-07-2022
 Drilling Contractor **Wang Testing Services**, Drill Rig **.21D50A [84%]**
 Driller **KS&AP**, Logger **A. Scifers** Checked by **C. Marin**
 Drilling Method **.3" ID Shelby Tube; Boring backfilled upon completion**

WATER LEVEL DATA
 While Drilling 6.00 ft
 At Completion of Drilling Dry
 Time After Drilling NA
 Depth to Water NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

MODEL: Sheet 13 (Sheet)
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 WANGENG\10640101.GPJ WANGENG.GDT 7/17/24



USER NAME = MatthewToussaint	DESIGNED - CMW	REVISED -
PLOT SCALE = 0.16666633 1/16"	DRAWN - MRT	REVISED -
PLOT DATE = 2/3/2026	CHECKED - CMW	REVISED -
	DATE - 02/02/2026	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SCALE:		SHEET 13	OF 28 SHEETS	STA.	TO STA.
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SOIL BORINGS LOG

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	364
CONTRACT NO. 62K33				
ILLINOIS FED. AID PROJECT				

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BORING LOG PT-03
WEI Job No.: 1064-01-01
Client: **Ardmore Roderick**
Project: **Barrington Rd from Algonquin Rd to Central Rd**
Location: **Cook County, IL**

Datum: NAVD 88
Elevation: 836.08 ft
North: 1976092.45 ft
East: 1036370.94 ft
Station: 81+52.21
Offset: 68.46 LT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
835.8	Very soft, gray Organic SILTY CLAY, trace gravel; moist	1	PUSH	< 0.25	60								
834.6	Black LOAM to SANDY LOAM, trace gravel and organic matter; moist	2	PUSH	< 0.25	174								
	Very soft, black Organic SILTY CLAY LOAM; moist												
831.1	Very soft, black PEAT; wet	3	PUSH	< 0.25	595								
830.3	Black Organic SILT; wet	4	PUSH	< 0.25	590								
829.8	Very soft, brown and black PEAT, some methane odor; moist	5	PUSH	NP	277								
825.1	Gray, black and brown Organic SILT; wet to saturated --alternating beds of sand and silt seams-- --silty clay seams--	6	PUSH	NP	168								
822.4	Gray, medium SAND, trace gravel; saturated	7	PUSH	NP	125								
820.9	Medium stiff to stiff, gray SILTY CLAY, trace gravel; moist	8	PUSH	0.50	20								
816.1		20	PUSH	1.50	19								

Boring terminated at 20.00 ft

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	06-28-2022	Complete Drilling	06-28-2022
Drilling Contractor	Wang Testing Services	Drill Rig	Geoprobe HA
Driller	KS&PH	Logger	A. Scifers
Checked by	C. Marin	Time After Drilling	NA
Drilling Method	1" ID HSA; Boring backfilled upon completion	Depth to Water	NA

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BORING LOG PT-02
WEI Job No.: 1064-01-01
Client: **Ardmore Roderick**
Project: **Barrington Rd from Algonquin Rd to Central Rd**
Location: **Cook County, IL**

Datum: NAVD 88
Elevation: 838.12 ft
North: 1975993.57 ft
East: 1036372.61 ft
Station: 80+53.33
Offset: 67.22 LT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
837.93	1/3-inch thick, dark brown SILTY CLAY LOAM; damp	1	PUSH	2.00	29								
836.3	Very stiff, gray SILTY CLAY, trace gravel; damp	2	PUSH	NP	44								
834.6	Black LOAM to SANDY LOAM, trace gravel; moist	3	PUSH	< 0.25	30								
832.5	Very soft, black PEAT, trace gravel and organics; moist to wet	4	PUSH	< 0.25	349								
829.0	Gray, organic SILT; moist	5	PUSH	< 0.25	277								
828.3	Very soft (<0.25P), black PEAT; wet	6	PUSH	NP	76								
827.0	Gray, organic SILT; moist	7	PUSH	1.00	21								
826.3	Very soft (<0.25P), dark brown PEAT; wet	8	PUSH	1.00	19								
825.0	Stiff, gray CLAY to SILTY CLAY; moist	9	PUSH	1.00	19								
824.1	Very soft (<0.25P), black PEAT; wet	10	PUSH	2.00	26								
816.1		20	PUSH	2.00	26								

Boring terminated at 20.00 ft

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	06-28-2022	Complete Drilling	06-28-2022
Drilling Contractor	Wang Testing Services	Drill Rig	Geoprobe HA
Driller	KS&PH	Logger	A. Scifers
Checked by	C. Marin	Time After Drilling	NA
Drilling Method	1" ID HSA; Boring backfilled upon completion	Depth to Water	NA

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BORING LOG PT-01
WEI Job No.: 1064-01-01
Client: **Ardmore Roderick**
Project: **Barrington Rd from Algonquin Rd to Central Rd**
Location: **Cook County, IL**

Datum: NAVD 88
Elevation: 839.96 ft
North: 1975941.15 ft
East: 1036380.68 ft
Station: 80+00.87
Offset: 59.37 LT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
838.2	Brown SANDY LOAM, trace to little gravel; moist	1	PUSH	NP	23								
	Very soft, black SILTY CLAY to SILTY CLAY LOAM, trace gravel; moist	2	PUSH	< 0.25	22								
836.0	Very soft, gray and brown CLAY to SILTY CLAY; moist	3	PUSH	< 0.25	30								
834.1	Very soft, dark gray SILTY CLAY, trace organic matter; moist	4	PUSH	1.00	20								
	Stiff to hard, brown to gray SILTY CLAY, trace gravel; moist	5	PUSH	3.00	21								
		6	PUSH	4.00	17								
		7	PUSH	2.50	17								
		8	PUSH	1.00	17								
		9	PUSH	1.50	19								
		10	PUSH	1.50	20								

Boring terminated at 20.00 ft

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	07-05-2022	Complete Drilling	07-05-2022
Drilling Contractor	Wang Testing Services	Drill Rig	Geoprobe HA
Driller	AG&TC	Logger	A. Scifers
Checked by	C. Marin	Time After Drilling	NA
Drilling Method	1" ID HSA; Boring backfilled upon completion	Depth to Water	NA

MODEL: Sheet 15 (Sheet)
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USER NAME = Matthew Toussaint	DESIGNED - CMW	REVISED -
PLOT SCALE = 0.16666633 1/16"	DRAWN - MRT	REVISED -
PLOT DATE = 2/3/2026	CHECKED - CMW	REVISED -
	DATE - 02/02/2026	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SOIL BORINGS LOG

SCALE: SHEET 15 OF 28 SHEETS STA. TO STA.

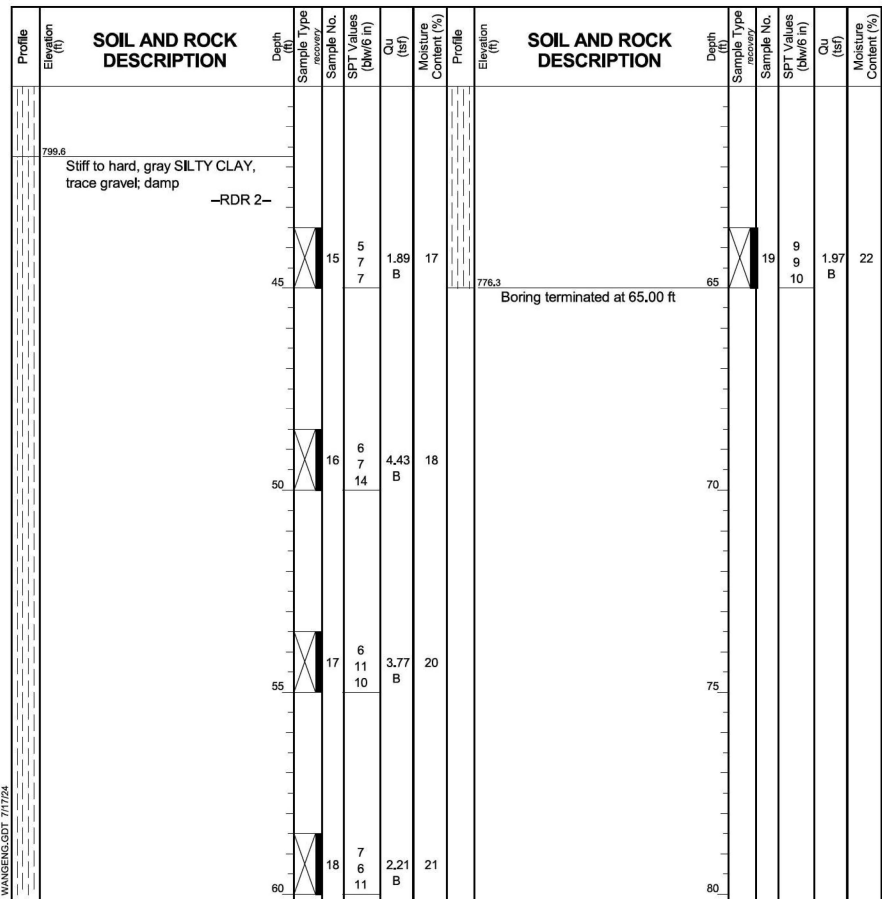
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	366
CONTRACT NO. 62K33				
ILLINOIS FED. AID PROJECT				

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BORING LOG PSE-10
 WEI Job No.: 1064-01-01

Date: NAVD 88
 Elevation: 841.31 ft
 North: 1976564.98 ft
 East: 1036453.97 ft
 Station: 86+24.38 R2
 Offset: 16.62' RT

Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**



GENERAL NOTES
 Begin Drilling: 04-29-2024 Complete Drilling: 04-29-2024
 Drilling Contractor: Wang Testing Services Drill Rig: 21D50R(87%)
 Driller: RH&JD Logger: M. Rojo Checked by: J. Bensen
 Drilling Method: 3.25" ID HSA to 15'; Mud rotary for remainder.
 Boring backfilled upon completion.

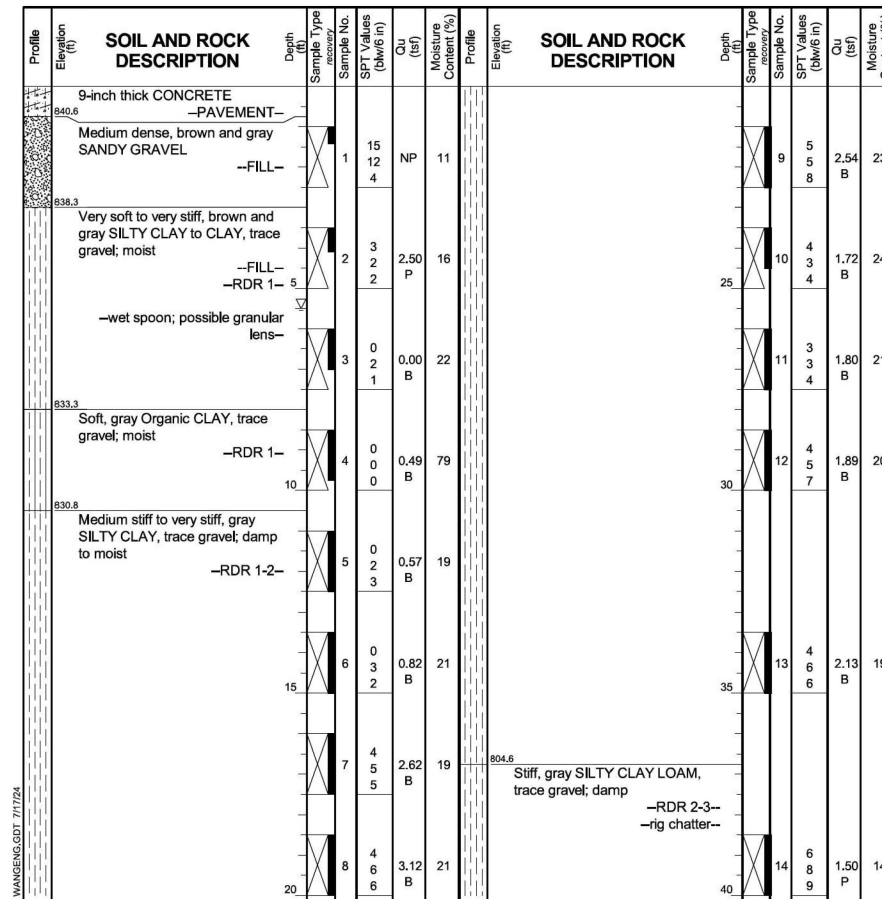
WATER LEVEL DATA
 While Drilling: 5.50 ft
 At Completion of Drilling: 12' mud
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG PSE-10
 WEI Job No.: 1064-01-01

Date: NAVD 88
 Elevation: 841.31 ft
 North: 1976564.98 ft
 East: 1036453.97 ft
 Station: 86+24.38 R2
 Offset: 16.62' RT

Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**



GENERAL NOTES
 Begin Drilling: 04-29-2024 Complete Drilling: 04-29-2024
 Drilling Contractor: Wang Testing Services Drill Rig: 21D50R(87%)
 Driller: RH&JD Logger: M. Rojo Checked by: J. Bensen
 Drilling Method: 3.25" ID HSA to 15'; Mud rotary for remainder.
 Boring backfilled upon completion.

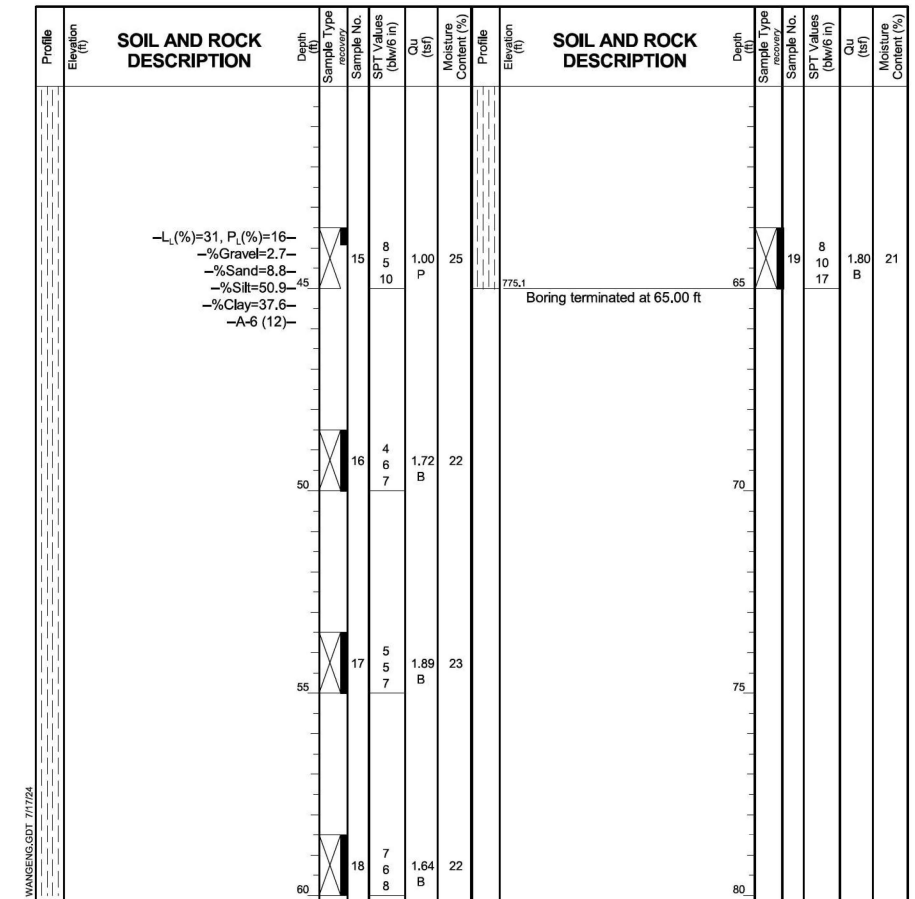
WATER LEVEL DATA
 While Drilling: 5.50 ft
 At Completion of Drilling: 12' mud
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG PSE-09
 WEI Job No.: 1064-01-01

Date: NAVD 88
 Elevation: 840.12 ft
 North: 1976477.88 ft
 East: 1036455.41 ft
 Station: 85+37.27 R2
 Offset: 17.69' RT

Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**



GENERAL NOTES
 Begin Drilling: 04-29-2024 Complete Drilling: 04-29-2024
 Drilling Contractor: Wang Testing Services Drill Rig: 21D50R(87%)
 Driller: RH&JD Logger: M. Rojo Checked by: J. Bensen
 Drilling Method: 2.25" ID HSA to 7.5'; Mud rotary for remainder.
 Boring backfilled upon completion.

WATER LEVEL DATA
 While Drilling: 1.00 ft
 At Completion of Drilling: 12' mud
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

MODEL: Sheet 17 (Sheet)
 FILE NAME: p:\projects\10640101\1012001018\CAD\02_Sheets\21-Standard\0162\33-SHT-SoilBorings.dgn
 WANGENG\10640101.GPJ WANGENG\DOT 7/17/24



USER NAME = MatthewToussaint	DESIGNED - CMW	REVISED -
PLOT SCALE = 0.16666633 1/16"	DRAWN - IAK	REVISED -
PLOT DATE = 2/3/2026	CHECKED - CMW	REVISED -
	DATE - 02/02/2026	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SOIL BORINGS LOG

SCALE: SHEET 16 OF 28 SHEETS STA. TO STA.

F.A.P. REF.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	367
CONTRACT NO. 62K33				
ILLINOIS FED. AID PROJECT				

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BORING LOG PSE-08
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 838.77 ft
 North: 1976403.46 ft
 East: 1036455.36 ft
 Station: 84+02.85 R2
 Offset: 17.31' RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
838.1	8-inch thick CONCRETE -PAVEMENT-												
	Medium stiff to very stiff, brown and gray SILTY CLAY to CLAY, trace gravel; damp	1	6	3.00	12				9	3	1.97	19	
	-FILL- -RDR 2-	2	2	0.90	20				10	4	2.62	21	
		3	1	1.56	26				11	3	3.69	19	
		4	2	0.66	28				12	4	2.30	19	
827.0	Medium stiff, gray and black CLAY, trace gravel and organics; damp	5	5	NR					13	4	1.56	19	
	-RDR 2-	6	2	0.50	24				14	3	0.98	19	
823.3	Medium stiff to very stiff, gray SILTY CLAY, trace gravel; damp to moist	7	1	0.74	21				15	5			
	-RDR 2-	8	2	0.90	21				16	7	2.05	19	

GENERAL NOTES
 Begin Drilling **04-30-2024** Complete Drilling **04-30-2024**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50R[87%]**
 Driller **RH&JD** Logger **M. Rojo** Checked by **J. Bensen**
 Drilling Method **2.25" ID HSA; Boring backfilled upon completion**

WATER LEVEL DATA
 While Drilling **Dry**
 At Completion of Drilling **Dry**
 Time After Drilling **NA**
 Depth to Water **NA**
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG PSE-07
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 838.68 ft
 North: 1976342.88 ft
 East: 1036453.47 ft
 Station: 84+02.28 R2
 Offset: 15.16' RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
796.9	Stiff, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel; damp												
	-RDR 2-	15	6	1.31	12				19	6	3.03	19	
794.2	Gray SILTY LOAM, trace gravel; damp to moist	45	5						20	6			
	-RDR 2-	50	5						25	5			
791.9	Very stiff to hard, gray SILTY CLAY, trace gravel; damp								30	4			
	-RDR 2-	55	7	4.10	17				40	7	2.05	19	
		60	8						65	10			

GENERAL NOTES
 Begin Drilling **05-01-2024** Complete Drilling **05-01-2024**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D50T [80%]**
 Driller **RH&JD** Logger **M. Rojo** Checked by **J. Bensen**
 Drilling Method **3.25" ID HSA; Boring backfilled upon completion**

WATER LEVEL DATA
 While Drilling **Dry**
 At Completion of Drilling **Dry**
 Time After Drilling **NA**
 Depth to Water **NA**
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG PSE-07
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 838.68 ft
 North: 1976342.88 ft
 East: 1036453.47 ft
 Station: 84+02.28 R2
 Offset: 15.16' RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
838.1	7-inch thick CONCRETE -PAVEMENT-												
	Medium stiff to very stiff, brown and gray SILTY CLAY to CLAY, trace gravel; damp	1	5	2.50	20				9	3	2.21	20	
	-FILL- -RDR 2-	2	5	NR					10	4	4.10	17	
		3	2	1.15	28				11	5	4.43	21	
		4	2	0.90	31				12	5	5.33	17	
828.2	Medium stiff, black and gray CLAY, trace gravel and organics; moist								13	4	2.46	18	
	-RDR 1-	5	1	0.50	28				14	7	1.97	17	
		6	2	0.50	26				15	6			
823.2	Medium stiff, gray SILTY CLAY, trace gravel; damp								16	0			
	-RDR 2-	7	0	0.90	19				17	2			
		8	0	0.98	19				18	2			

GENERAL NOTES
 Begin Drilling **05-01-2024** Complete Drilling **05-01-2024**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D50T [80%]**
 Driller **RH&JD** Logger **M. Rojo** Checked by **J. Bensen**
 Drilling Method **3.25" ID HSA; Boring backfilled upon completion**

WATER LEVEL DATA
 While Drilling **Dry**
 At Completion of Drilling **Dry**
 Time After Drilling **NA**
 Depth to Water **NA**
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

MODEL: Sheet 18.2 (Sheet)
 FILE NAME: p:\projects\10640101\10640101\10640101\CAD\02 - Sheets\2-Standards\18.2-SHT-SoilBorings.dgn
 WANGENG 10640101.GPJ WANGENG.GDT 7/17/24



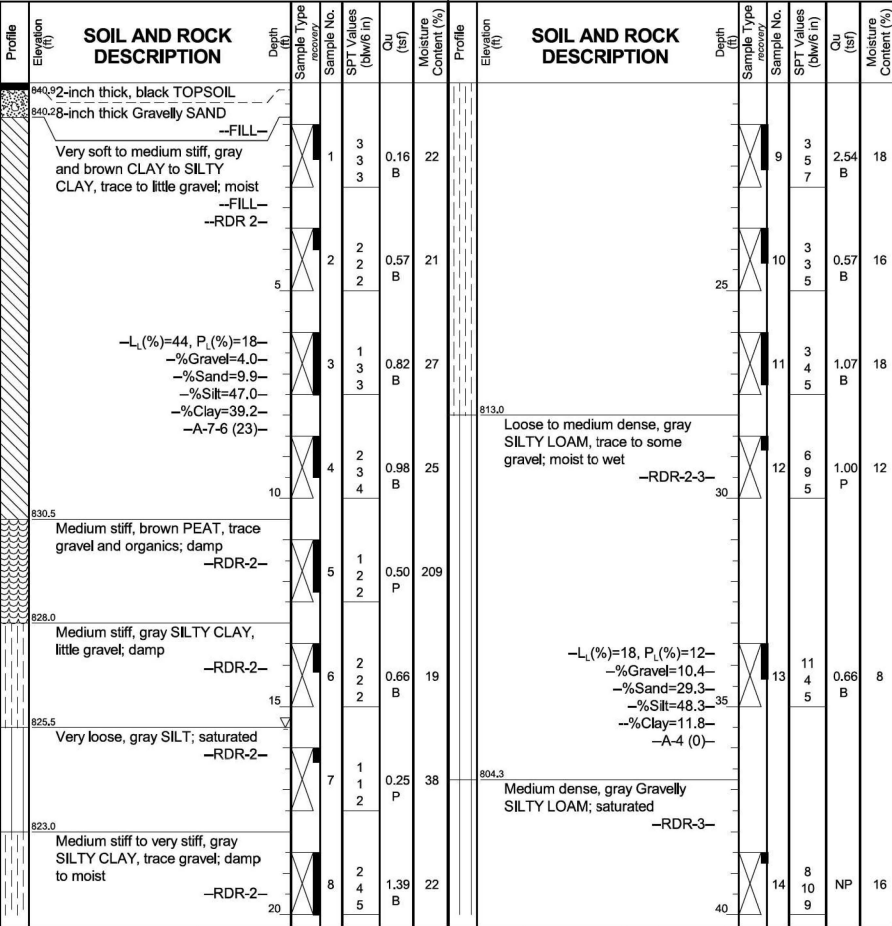
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PLOT SCALE = 0.16666633 1/16"	DRAWN - IAK	REVISED -
PLOT DATE = 2/3/2026	CHECKED - CMW	REVISED -
	DATE - 02/02/2026	REVISED -

**STATE OF ILLINOIS
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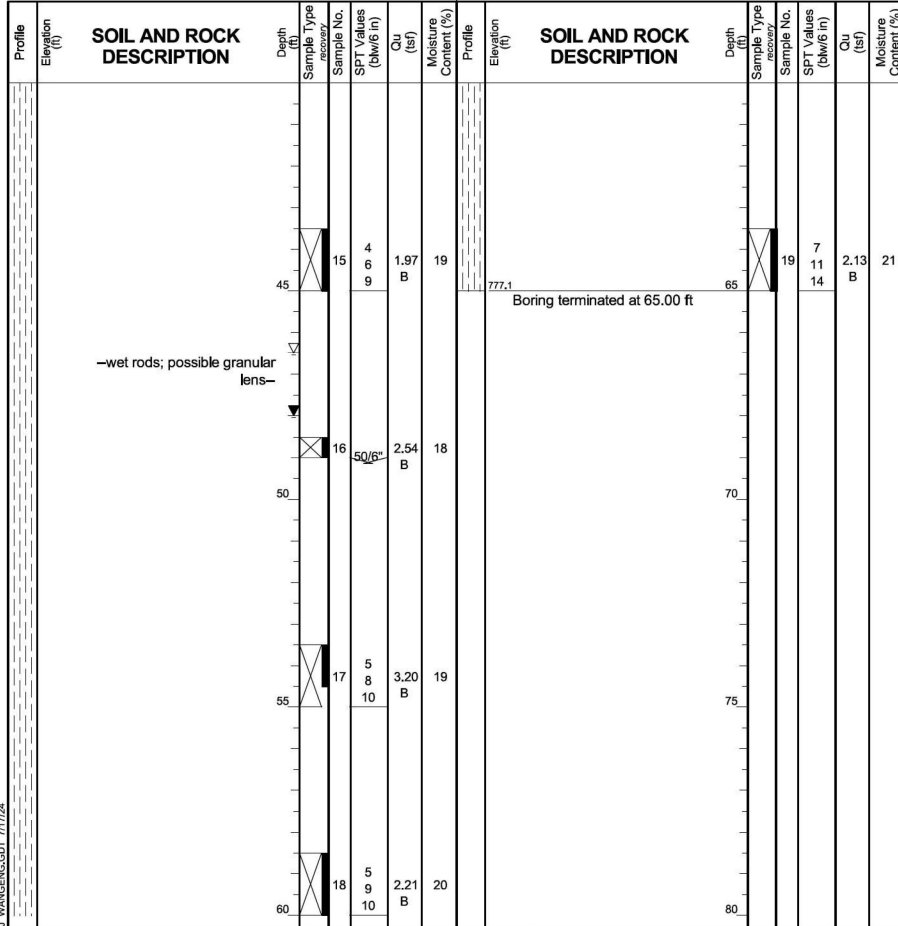
SOIL BORINGS LOG

SCALE: SHEET 18 OF 28 SHEETS STA. TO STA.

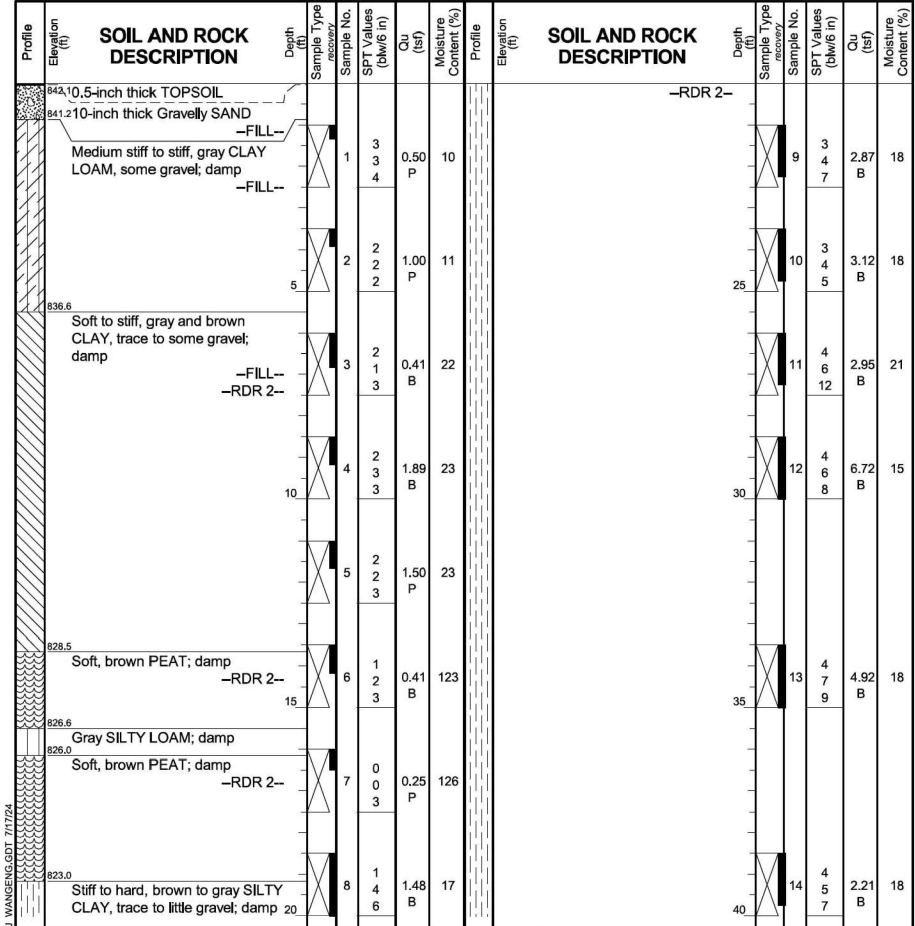
F.A.P. RTE. 362	SECTION 2019-161-W	COUNTY COOK	TOTAL SHEETS 666	SHEET NO. 369
CONTRACT NO. 62K33				
ILLINOIS FED. AID PROJECT				



GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	04-15-2024	Complete Drilling	04-15-2024
Drilling Contractor	Wang Testing Services	Drill Rig	20D50T [80%]
Driller	RH&JD	Logger	I. Romero
Checked by	J. Bensen	Time After Drilling	NA
Drilling Method	2.25" ID HSA to 16', mud rotary thereafter; Boring backfilled upon completion	Depth to Water	NA



GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	04-15-2024	Complete Drilling	04-16-2024
Drilling Contractor	Wang Testing Services	Drill Rig	20D50T [80%]
Driller	RH&JD	Logger	I. Romero
Checked by	J. Bensen	Time After Drilling	NA
Drilling Method	3.25" ID HSA; Boring backfilled upon completion	Depth to Water	NA



GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	04-15-2024	Complete Drilling	04-16-2024
Drilling Contractor	Wang Testing Services	Drill Rig	20D50T [80%]
Driller	RH&JD	Logger	I. Romero
Checked by	J. Bensen	Time After Drilling	NA
Drilling Method	3.25" ID HSA; Boring backfilled upon completion	Depth to Water	NA

MODEL: Sheet 20 (Sheet)
 FILE NAME: p:\projects\10640101\10640101-2020-01-18-CAD\02-Sheet20-Standard\0163623-SHT-5-11-Borings.dgn
 WANGENG 10640101.GPJ WANGENG.GDT 7/17/24



USER NAME	DESIGNED	REVISIONS
Matthew Toussaint	CMW	
	IAK	
	CMW	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SCALE:		SHEET 20 OF 28 SHEETS		STA. TO STA.	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	558L
CONTRACT NO. 62K33				
ILLINOIS FED. AID PROJECT				

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BORING LOG CUL-02
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 836.08 ft
 North: 1976235.54 ft
 East: 1036487.22 ft
 Station: 82+94.80
 Offset: 48.44 RT

Page 2 of 2

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
	Boring terminated at 40.00 ft														
		45		15	6 6 7	2.13 B	16								
		50		16	4 5 7	1.64 B	18								
		55		17	6 9 10	1.89 B	18								
		60		18	8 8 12	3.28 B	16								

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	02-07-2022	Complete Drilling	02-07-2022
Drilling Contractor	Wang Testing Services	Drill Rig	21D50A [84%]
Driller	KS&AP	Logger	A. Scifers
Checked by	C. Marin	Drilling Method	2.25" ID HSA; Boring backfilled upon completion
While Drilling	3.50 ft	At Completion of Drilling	Dry
Time After Drilling	NA	Depth to Water	NA

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BORING LOG PSE-03
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 843.05 ft
 North: 1976037.92 ft
 East: 1036399.03 ft
 Station: 80+97.56 RT
 Offset: 40.60 LT

Page 2 of 2

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
	Boring terminated at 65.00 ft														
		45		15	6 6 7	2.13 B	16								
		50		16	4 5 7	1.64 B	18								
		55		17	6 9 10	1.89 B	18								
		60		18	8 8 12	3.28 B	16								

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	04-16-2024	Complete Drilling	04-16-2024
Drilling Contractor	Wang Testing Services	Drill Rig	20D50T [80%]
Driller	RH&JD	Logger	F. Bozga
Checked by	J. Bensen	Drilling Method	3.25" ID HSA; Boring backfilled upon completion
While Drilling	Dry	At Completion of Drilling	Dry
Time After Drilling	NA	Depth to Water	NA

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BORING LOG PSE-03
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 843.05 ft
 North: 1976037.92 ft
 East: 1036399.03 ft
 Station: 80+97.56 RT
 Offset: 40.60 LT

Page 1 of 2

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
842.74	8-inch thick, black SILTY CLAY														
842.1	--TOPSOIL--														
	8-inch thick, gray SANDY GRAVEL; damp														
	Stiff, brown and gray SILTY CLAY, trace gravel														
	Soft, gray CLAY														
820.1															
818.6															
	Medium stiff to stiff, brown and gray CLAY, trace gravel														
837.6															
	Stiff to very stiff, gray SILTY CLAY, trace gravel														
	Medium stiff to stiff, dark brown PEAT														
827.6															
824.1	Medium stiff, dark gray to dark brown Organic CLAY														

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	04-16-2024	Complete Drilling	04-16-2024
Drilling Contractor	Wang Testing Services	Drill Rig	20D50T [80%]
Driller	RH&JD	Logger	F. Bozga
Checked by	J. Bensen	Drilling Method	3.25" ID HSA; Boring backfilled upon completion
While Drilling	Dry	At Completion of Drilling	Dry
Time After Drilling	NA	Depth to Water	NA

MODEL - Sheet 21 (Sheet 1)
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 WANGENG\10640101.GPJ, WANGENG.GDT 7/17/24



USER NAME	= MatthewToussaint	DESIGNED	- CMW	REVISED	-
PLOT SCALE	= 0.16666633 1/16	DRAWN	- IAK	REVISED	-
PLOT DATE	= 2/3/2026	CHECKED	- CMW	REVISED	-
		DATE	- 02/02/2026	REVISED	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SCALE:		SHEET 21	OF 28 SHEETS	STA.	TO STA.
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SOIL BORINGS LOG

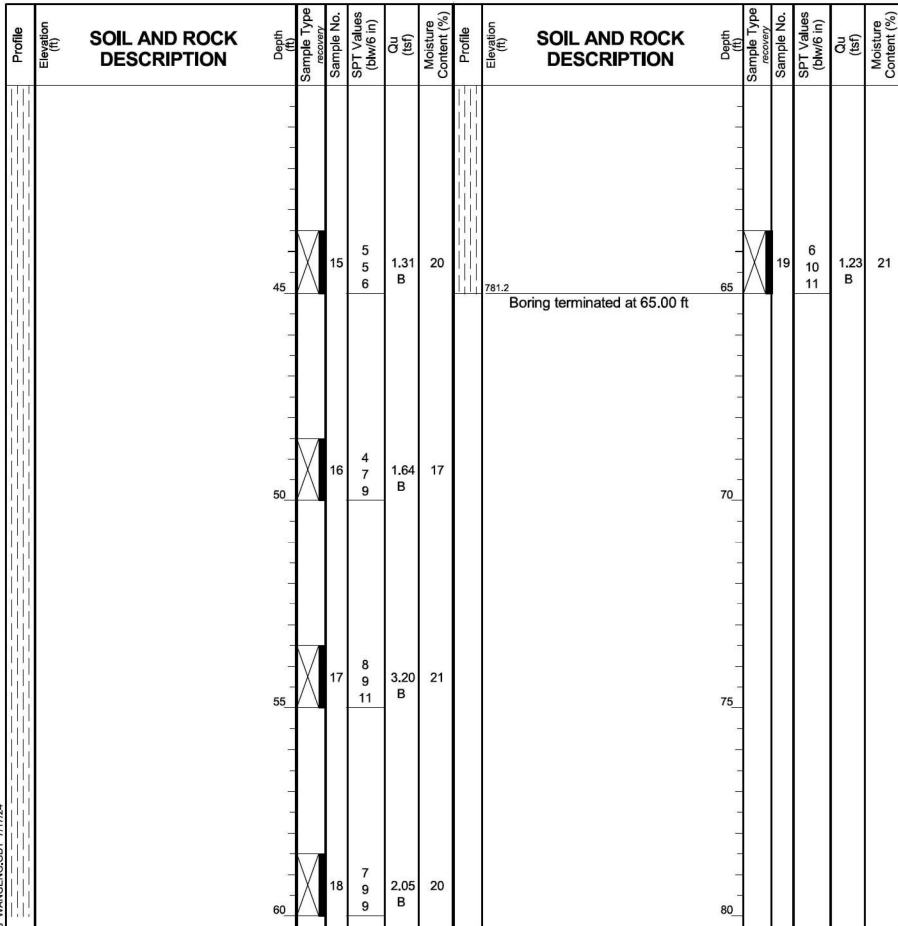
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	372
CONTRACT NO. 62K33				
ILLINOIS FED. AID PROJECT				

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BORING LOG PSE-02
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 846.19 ft
 North: 1975958.12 ft
 East: 1036400.08 ft
 Station: 80+17.75 R2
 Offset: 39.90 LT

Page 2 of 2



GENERAL NOTES
 Begin Drilling: 04-16-2024
 Complete Drilling: 04-18-2024
 Drilling Contractor: Wang Testing Services
 Drill Rig: 20D50T [80%]
 Driller: RH&JD
 Logger: F. Bozga
 Checked by: J. Bensen
 Drilling Method: 2.25" ID HSA; Boring backfilled upon completion

WATER LEVEL DATA
 While Drilling: 11.50 ft
 At Completion of Drilling: mud
 Time After Drilling: NA
 Depth to Water: NA

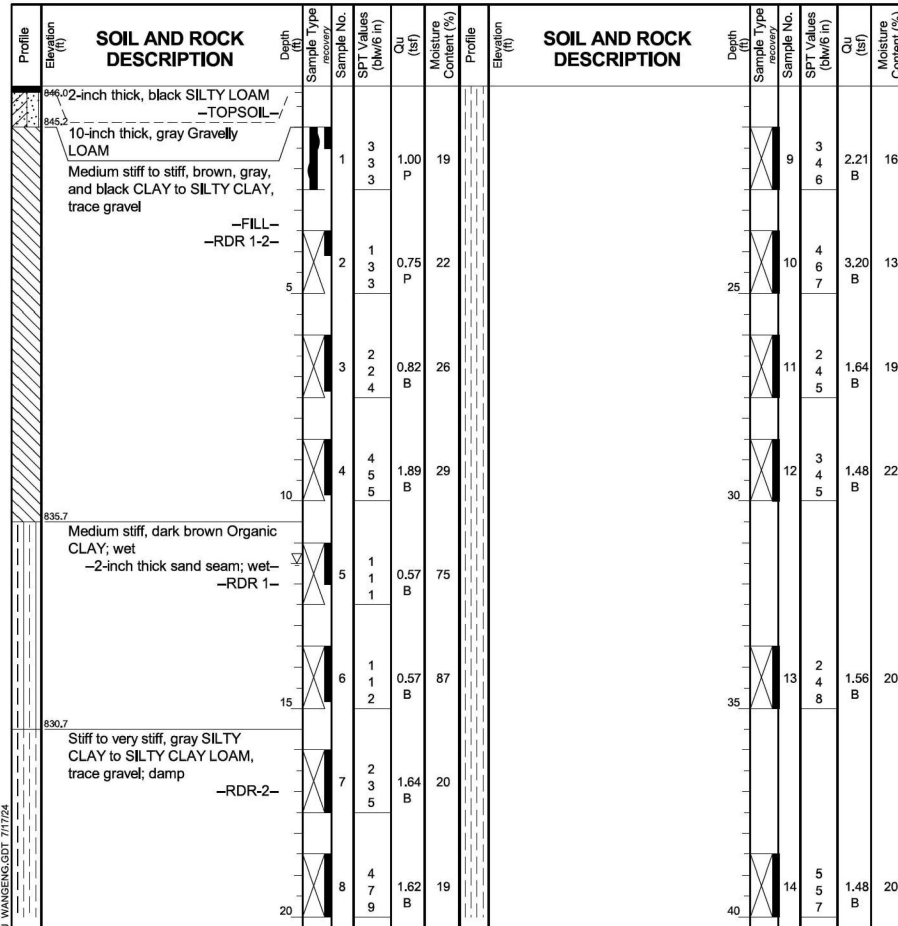
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG PSE-02
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 846.19 ft
 North: 1975958.12 ft
 East: 1036400.08 ft
 Station: 80+17.75 R2
 Offset: 39.90 LT

Page 1 of 2



GENERAL NOTES
 Begin Drilling: 04-16-2024
 Complete Drilling: 04-18-2024
 Drilling Contractor: Wang Testing Services
 Drill Rig: 20D50T [80%]
 Driller: RH&JD
 Logger: F. Bozga
 Checked by: J. Bensen
 Drilling Method: 2.25" ID HSA; Boring backfilled upon completion

WATER LEVEL DATA
 While Drilling: 11.50 ft
 At Completion of Drilling: mud
 Time After Drilling: NA
 Depth to Water: NA

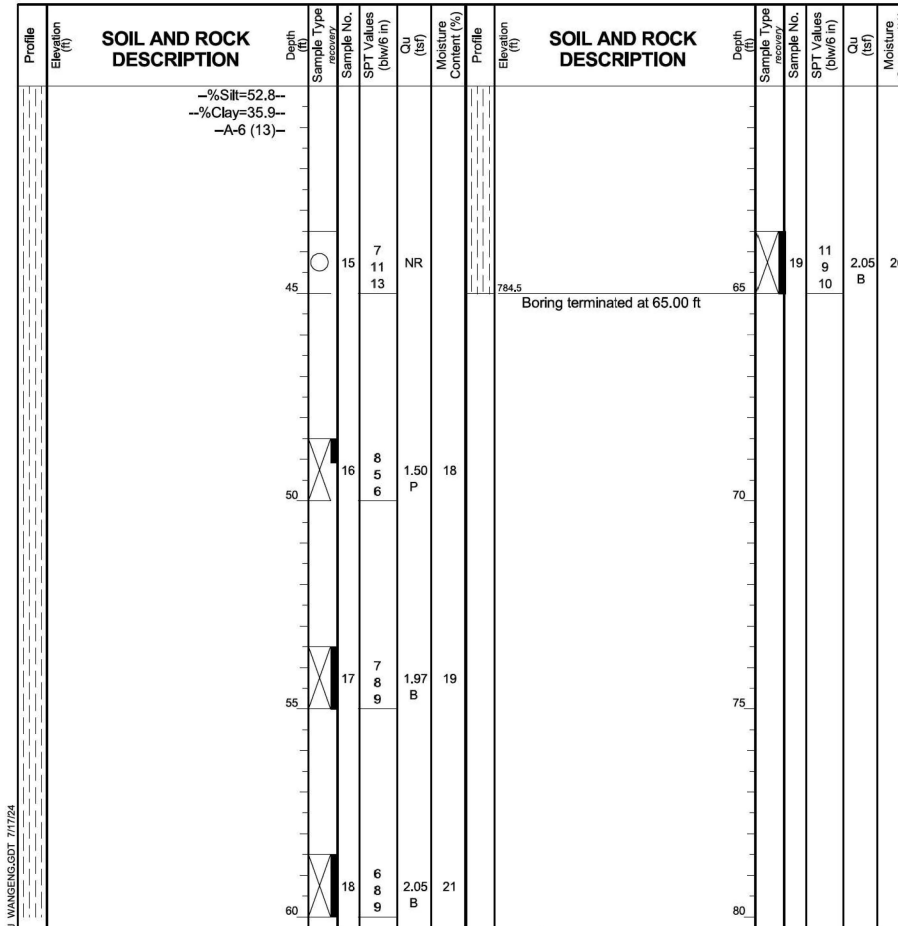
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG PSE-01
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 849.54 ft
 North: 1975883.52 ft
 East: 1036403.87 ft
 Station: 79+43.14 R2
 Offset: 36.43 LT

Page 2 of 2



GENERAL NOTES
 Begin Drilling: 04-18-2024
 Complete Drilling: 04-18-2024
 Drilling Contractor: Wang Testing Services
 Drill Rig: 20D50T [80%]
 Driller: RH&JD
 Logger: M. Rojo
 Checked by: J. Bensen
 Drilling Method: 3.25" ID HSA; Boring backfilled upon completion

WATER LEVEL DATA
 While Drilling: Dry
 At Completion of Drilling: Dry
 Time After Drilling: NA
 Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

MODEL: Sheet 21 (Sheet)
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 WANGENG\10640101.GPJ; WANGENG.GDT 7/17/24



USER NAME = MatthewToussaint	DESIGNED - CMW	REVISED -
PLOT SCALE = 0.16666633 1/1 in.	DRAWN - IAK	REVISED -
PLOT DATE = 2/3/2026	CHECKED - CMW	REVISED -
	DATE - 02/02/2026	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SOIL BORINGS LOG

SCALE: SHEET 22 OF 28 SHEETS STA. TO STA.

F.A.P. RTE. 362	SECTION 2019-161-W	COUNTY COOK	TOTAL SHEETS 666	SHEET NO. 373
CONTRACT NO. 62K33				
ILLINOIS FED. AID PROJECT				

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BORING LOG PSE-01
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 849.54 ft
 North: 1975883.52 ft
 East: 1036403.87 ft
 Station: 79+43.14 R2
 Offset: 36.43 LT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
849.5	5-inch thick, black SILTY CLAY --TOPSOIL--	0					849.5		0				
848.8	6-inch thick SANDY GRAVEL --FILL--	1	3	2.00	18		848.8		1	9	5	2.05	24
	Stiff to very stiff, brown and gray SILTY CLAY, trace gravel; damp	2	3						2	10	4	2.87	22
	--FILL--	3	3						3	11	4	1.80	19
	--RDR 2--	4	2	2.62	20				4	12	5	1.39	19
		5	4	1.50	22				5	13	5	1.31	21
		6	2	2.62	20				6	14	3	0.90	22
840.5	Medium stiff (0.50P), black CLAY, trace gravel, fibers and organics	10	2	1.50	24				7	6	4.51	17	
839.6	Loose, brown and gray LOAM, trace gravel; damp	15	4	3.00	7				8	5	7.71	15	
836.5	Hard, brown and gray SILTY CLAY LOAM, trace gravel; damp	20	6	4.51	17				9	7	7.71	15	
831.5	Medium stiff to very stiff, brown to gray SILTY CLAY, trace gravel; damp	25	7	7.71	15				10	13	10		
		30	8	3.44	20				11	10			
		35	5	3.44	20				12	7			
		40	11						13	5			

GENERAL NOTES
 Begin Drilling **04-18-2024** Complete Drilling **04-18-2024**
 Drilling Contractor **Wang Testing Services** Drill Rig **20D50T [80%]**
 Driller **RH&JD** Logger **M. Rojo** Checked by **J. Bensen**
 Drilling Method **3.25" ID HSA; Boring backfilled upon completion**

WATER LEVEL DATA
 While Drilling **Dry**
 At Completion of Drilling **Dry**
 Time After Drilling **NA**
 Depth to Water **NA**
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG NB-SGB-11
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 861.54 ft
 North: 1978925.76 ft
 East: 1036454.33 ft
 Station: 109+85.25
 Offset: 31.81 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
861.0	7-inch thick TOPSOIL	0					861.0		0				
	Hard, brown and gray SILTY CLAY to CLAY LOAM, trace gravel; damp to moist	1	14	5.25	18				1	8	5.99	19	
	--FILL--	2	8						2	9	4.92	20	
	--RDR 2--	3	6	4.92	20				3	9	5.90	17	
		4	6	4.26	17				4	9	4.26	17	
855.5	Stiff to hard, gray SILTY CLAY, trace gravel; moist	5	5	4.26	17				5	9	5.00	17	
	--RDR 2--	6	6	1.89	19				6	6	1.89	19	
		7	6	1.89	19				7	6	1.89	19	
		8	6	2.71	18				8	5	2.71	18	
845.5	Boring terminated at 16.00 ft	16							16				

GENERAL NOTES
 Begin Drilling **01-27-2022** Complete Drilling **01-27-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **C. Marin**
 Drilling Method **3.25" ID HSA; Boring backfilled upon completion**

WATER LEVEL DATA
 While Drilling **Dry**
 At Completion of Drilling **Dry**
 Time After Drilling **NA**
 Depth to Water **NA**
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG NB-SGB-10
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 864.76 ft
 North: 1978337.45 ft
 East: 1036465.58 ft
 Station: 103+96.92
 Offset: 42.00 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
863.8	12-inch thick, hard, black and brown SILTY CLAY, trace gravel; moist	0					863.8		0				
	--TOPSOIL--	1	13	4.50	17				1	6	7.13	18	
	Stiff to hard, brown to gray SILTY CLAY, trace gravel; damp to moist	2	6	7.13	18				2	7	11		
	--RDR 2--	3	4	5.25	19				3	7	10		
		4	5	4.43	18				4	9	11		
		5	4	6.97	20				5	7	10		
		6	4	4.02	17				6	10	11		
		7	2	2.79	16				7	4	6		
		8	5	1.80	17				8	5	7		
848.8	Boring terminated at 16.00 ft	16							16				

GENERAL NOTES
 Begin Drilling **01-27-2022** Complete Drilling **01-27-2022**
 Drilling Contractor **Wang Testing Services** Drill Rig **21D50A [84%]**
 Driller **KS&AP** Logger **A. Scifers** Checked by **C. Marin**
 Drilling Method **3.25" ID HSA; Boring backfilled upon completion**

WATER LEVEL DATA
 While Drilling **Dry**
 At Completion of Drilling **Dry**
 Time After Drilling **NA**
 Depth to Water **NA**
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

MODEL: Sheet 23 (Sheet)
 FILE NAME: p:\projects\10640101\1012001018\CAD\02_Sheet23-Standard\016233-SHT-SoilBorings.dgn
 WANGENG 10640101.GPJ WANGENG.GDT 7/17/24



USER NAME = MatthewToussaint	DESIGNED - CMW	REVISED -
PLOT SCALE = 0.16666633 1/16	DRAWN - IAK	REVISED -
PLOT DATE = 2/3/2026	CHECKED - CMW	REVISED -
	DATE - 02/02/2026	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SOIL BORINGS LOG

SCALE: SHEET 23 OF 28 SHEETS STA. TO STA.

F.A.P. RTE. 362	SECTION 2019-161-W	COUNTY COOK	TOTAL SHEETS 666	SHEET NO. 374
CONTRACT NO. 62K33				
ILLINOIS FED. AID PROJECT				

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BORING LOG NB-SGB-09
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 849.58 ft
 North: 1977449.65 ft
 East: 1036465.12 ft
 Station: 95+08.69
 Offset: 38.38 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
848.8	9-inch thick TOPSOIL												
	Stiff to hard, black and gray to brown and gray CLAY LOAM to SILTY CLAY LOAM, trace gravel; moist		1	13	3.44	16							
	-FILL- -RDR 2-		2	5	5.99	15							
	-sand seams; wet-		3	4	1.31	12							
844.1	Medium stiff, gray to black and gray SILTY CLAY to SILTY CLAY LOAM, trace gravel; moist		4	2	0.66	18							
	-RDR 2-		5	2	0.98	26							
	-L _c (%)=36, P _c (%)=17- -%Gravel=2.6- -%Sand=13.6- -%Silt=53.3- -%Clay=30.6-10- -A-6 (15)-		6	5	1.23	29							
839.8	Medium stiff to stiff, black, dark gray, and gray CLAY to SILTY CLAY, trace gravel; moist		7	4	0.82	24							
	-RDR 2-		8	5	3.20	18							
835.7	Very stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel; moist		15	5									
833.6	Boring terminated at 16.00 ft												

GENERAL NOTES
 Begin Drilling: 02-01-2022 Complete Drilling: 02-01-2022
 Drilling Contractor: Wang Testing Services Drill Rig: 21D50A [84%]
 Driller: KS&AP Logger: A. Scifers Checked by: C. Marin
 Drilling Method: 2.25" ID HSA; Boring backfilled upon completion

WATER LEVEL DATA
 While Drilling: Dry
 At Completion of Drilling: Dry
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG NB-SGB-08
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 861.60 ft
 North: 1975636.88 ft
 East: 1036450.28 ft
 Station: 76+96.30
 Offset: 8.90 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
861.4	3-inch thick, black SILTY CLAY -TOPSOIL-												
	Stiff to hard, brown to gray SILTY CLAY to SILTY CLAY LOAM, trace gravel; damp to moist		1	22	4.50	8							
	-RDR 2-		2	6	4.26	21							
	-gravelly sand seam; wet-		3	2	3.53	19							
			4	5	3.94	16							
			5	7	3.28	14							
			6	5	1.97	16							
			7	2	1.56	17							
			8	4	1.97	18							
845.6	Boring terminated at 16.00 ft												

GENERAL NOTES
 Begin Drilling: 02-15-2022 Complete Drilling: 02-15-2022
 Drilling Contractor: Wang Testing Services Drill Rig: 21D50A [84%]
 Driller: KS&AP Logger: A. Scifers Checked by: C. Marin
 Drilling Method: 2.25" ID HSA; Boring backfilled upon completion

WATER LEVEL DATA
 While Drilling: Dry
 At Completion of Drilling: Dry
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG CUL-02
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 836.08 ft
 North: 1976235.54 ft
 East: 1036487.22 ft
 Station: 82+94.80
 Offset: 48.44 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
834.9	Black SANDY LOAM -TOPSOIL-												
	Very soft to medium stiff, gray to green Organic SILTY CLAY; damp		1	1	0.50	72				9	6	1.07	16
	-RDR 1 to 2-		2	1	0.25	405				10	4	1.48	17
832.3	Very soft, black PEAT, trace gravel; moist		2	2	0.25	405				11	4	1.89	16
830.1	Very soft, gray SILTY CLAY LOAM to PEAT, trace gravel; moist		3	0	0.25	73				12	4	2.30	14
829.1	-RDR 1-		4	0	0.66	57				13	5	1.56	15
826.9	Very soft, black PEAT; moist		5	2	1.15	24				14	5	2.05	17
825.5	Medium stiff, gray SILTY CLAY, trace organic matter; moist		6	3	1.56	21				15	4	0.98	23
	-RDR 2-		7	4	0.98	23				16	7	2.05	19
	Medium stiff to stiff, gray CLAY to SILTY CLAY; moist		8	4	0.98	16				17	6	1.15	24
	-RDR 2-		15	6						18	8		
799.2	Gray SILT, trace to little gravel; moist		15	4						19	8		
818.1	Medium stiff to very stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel; moist		16	4						20	5		
797.1	Very stiff, gray SILTY CLAY, trace gravel; moist		16	7						20	11		
796.1			17	6						21	11		

GENERAL NOTES
 Begin Drilling: 02-07-2022 Complete Drilling: 02-07-2022
 Drilling Contractor: Wang Testing Services Drill Rig: 21D50A [84%]
 Driller: KS&AP Logger: A. Scifers Checked by: C. Marin
 Drilling Method: 2.25" ID HSA; Boring backfilled upon completion

WATER LEVEL DATA
 While Drilling: 3.50 ft
 At Completion of Drilling: Dry
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

MODEL: Sheet 24 (Sheet)
 FILE NAME: p:\projects\10640101\1012001018\CAD\02 - Sheets\21-Standard\016233-SHT-SoilBorings.dgn
 WANGENG 10640101.GPJ WANGENG.GDT 7/17/24



USER NAME = MatthewToussaint	DESIGNED - CMW	REVISED -
PLOT SCALE = 0.16666633 1/16"	DRAWN - IAK	REVISED -
PLOT DATE = 2/3/2026	CHECKED - CMW	REVISED -
	DATE - 02/02/2026	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SOIL BORINGS LOG

SCALE: SHEET 24 OF 28 SHEETS STA. TO STA.

F.A.P. RTE. 362	SECTION 2019-161-W	COUNTY COOK	TOTAL SHEETS 666	SHEET NO. 375
ILLINOIS FED. AID PROJECT				

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BORING LOG NB-SGB-07
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 863.31 ft
 North: 1975042.29 ft
 East: 1036456.54 ft
 Station: 71+01.69
 Offset: 12.58 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
863.04	8-inch thick, black SANDY LOAM, some gravel; damp --TOPSOIL--	1	11	6	4.50	19							
	Stiff to hard, black and dark gray to brown and gray SILTY CLAY, trace to little gravel, moist	2	4	5	1.97	20							
	--FILL-- --RDR 2-- --sand seam--	3	5	7	3.94	27							
		4	11	16	8.04	20							
		5	10	11	7.22	19							
853.6	Hard, brown to gray SILTY CLAY, trace gravel; moist --RDR 2--	6	12	14	6.15	17							
		7	12	12	4.02	18							
		8	10	11	5.82	19							
847.3	Boring terminated at 16.00 ft												

GENERAL NOTES
 Begin Drilling: 02-15-2022 Complete Drilling: 02-15-2022
 Drilling Contractor: Wang Testing Services Drill Rig: 21D50A [84%]
 Driller: KS&AP Logger: A. Scifers Checked by: C. Marin
 Drilling Method: 2.25" ID HSA; Boring backfilled upon completion

WATER LEVEL DATA
 While Drilling: 13.00 ft
 At Completion of Drilling: Dry
 Time After Drilling: NA
 Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG NB-SGB-06
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 854.39 ft
 North: 1974758.06 ft
 East: 1036483.55 ft
 Station: 68+17.34
 Offset: 38.36 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
853.7	8-inch thick, stiff, black SILTY CLAY	1	2	2	1.00	68							
	--TOPSOIL--	2	3	2	0.75	32							
	Black LOAM to SANDY LOAM, trace gravel	3	4	6	1.97	21							
	Medium stiff, brown and gray CLAY to SILTY CLAY; moist	4	6	7	2.13	17							
	--RDR 2--	5	4	6	2.71	17							
	-L _c (%)=46, P _c (%)=15 -%Gravel=0.6- -%Sand=7.8- -%Silt=58.9- -%Clay=32.8- -A-7-6 (29)	6	10	10	3.12	17							
	Stiff to very stiff, brown to gray SILTY CLAY to SILTY CLAY LOAM, trace gravel; moist	7	4	4	2.21	17							
	--RDR 2--	8	8	8	2.46	18							
838.4	Boring terminated at 16.00 ft												

GENERAL NOTES
 Begin Drilling: 02-15-2022 Complete Drilling: 02-15-2022
 Drilling Contractor: Wang Testing Services Drill Rig: 21D50A [84%]
 Driller: KS&AP Logger: A. Scifers Checked by: C. Marin
 Drilling Method: 2.25" ID HSA; Boring backfilled upon completion

WATER LEVEL DATA
 While Drilling: Dry
 At Completion of Drilling: Dry
 Time After Drilling: NA
 Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG NB-SGB-05
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 855.21 ft
 North: 1974671.25 ft
 East: 1036485.72 ft
 Station: 67+30.53
 Offset: 40.16 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
854.6	7-inch thick, black SILTY CLAY --TOPSOIL--	1	4	2	2.05	36							
	Very stiff, black SILTY CLAY, little organic matter; moist	2	5	3	0.66	18							
	--RDR 2--	3	5	9	1.97	19							
	Medium stiff, gray and green CLAY to SILTY CLAY; moist	4	7	6	2.79	18							
	--RDR 2--	5	3	5	2.13	16							
	Stiff to very stiff, brown to gray SILTY CLAY, trace gravel; moist	6	8	11	1.89	17							
843.7	Medium dense, gray SILT, saturated	7	4	9	NP	24							
	--RDR 2-- --wet spoon--	8	8	8	1.64	19							
841.7	Stiff, gray SILTY CLAY, trace gravel; moist	9	8	8									
	--RDR 2--	10											
839.2	Boring terminated at 16.00 ft												

GENERAL NOTES
 Begin Drilling: 02-15-2022 Complete Drilling: 02-15-2022
 Drilling Contractor: Wang Testing Services Drill Rig: 21D50A [84%]
 Driller: KS&AP Logger: A. Scifers Checked by: C. Marin
 Drilling Method: 2.25" ID HSA; Boring backfilled upon completion

WATER LEVEL DATA
 While Drilling: 12.00 ft
 At Completion of Drilling: Dry
 Time After Drilling: NA
 Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

MODEL: Sheet 25 (Sheet)
 FILE NAME: p:\projects\2020\C1401\01\20200118\CAD\02 - Sheets\21-Standard\21-33-SHT-SoilBorings.dgn
 WANGENG\10640101.GPJ WANGENG.GDT 7/17/24



USER NAME = MatthewToussaint	DESIGNED - CMW	REVISED -
PLOT SCALE = 0.16666633 1/16"	DRAWN - IAK	REVISED -
PLOT DATE = 2/3/2026	CHECKED - CMW	REVISED -
	DATE - 02/02/2026	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SOIL BORINGS LOG

SCALE: SHEET 25 OF 28 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	376
CONTRACT NO. 62K33				
ILLINOIS FED. AID PROJECT				

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BORING LOG NB-SGB-04 Page 1 of 1
WEI Job No.: 1064-01-01
Client: **Ardmore Roderick**
Project: **Barrington Rd from Algonquin Rd to Central Rd**
Location: **Cook County, IL**
Datum: NAVD 88
Elevation: 854.84 ft
North: 1974451.30 ft
East: 1036478.83 ft
Station: 65+10.61
Offset: 32.31 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
854.3	7-inch thick, black SILTY CLAY; moist	1	3		0.98	45							
	---TOPSOIL---	1	3										
	853.3 Medium stiff, black and brown SILTY CLAY, trace gravel; moist	3	1										
	---FILL---	4	4										
	---RDR 2---	5	5										
	851.3 Hard, brown and gray CLAY LOAM to SILTY CLAY LOAM, trace gravel; moist	2	4	4.51	18								
	---FILL---	6	6										
	---RDR 2---	9	9		0.57	75							
	849.7 Medium stiff, gray Gravelly SILTY CLAY, trace organic matter; moist	3	11										
	---RDR 2---	5	13										
	---L _c (%)=39, P _c (%)=19--- ---%Gravel=20.8--- ---%Sand=11.9--- ---%Silt=41.2--- ---%Clay=26.2--- ---A-6 (11)---	4	5	4.35	19								
	---RDR 2---	11	16										
	846.1 Very stiff to hard, gray SILTY CLAY, trace gravel; moist	5	6										
	---RDR 2---	8	9										
	844.4 Medium dense, gray SILT, trace gravel; moist	6	10										
	---RDR 2---	10	8										
	---RDR 2---	13	10		1.31	18							
	---RDR 2---	15	14										
	838.8 Boring terminated at 16.00 ft	8	15		1.23	19							

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	02-14-2022	Complete Drilling	02-14-2022
Drilling Contractor	Wang Testing Services	Drill Rig	21D50A [84%]
Driller	KS&AP	Logger	A. Scifers
Checked by	C. Marin	Time After Drilling	NA
Drilling Method	2.25" ID HSA; Boring backfilled upon completion	Depth to Water	NA

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BORING LOG NB-SGB-03 Page 1 of 1
WEI Job No.: 1064-01-01
Client: **Ardmore Roderick**
Project: **Barrington Rd from Algonquin Rd to Central Rd**
Location: **Cook County, IL**
Datum: NAVD 88
Elevation: 853.37 ft
North: 1973830.19 ft
East: 1036482.19 ft
Station: 58+89.49
Offset: 32.97 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
852.6	9-inch thick TOPSOIL	2	2										
	Loose, black SANDY LOAM, trace gravel; moist	1	3										
	Stiff, black and brown CLAY to SILTY CLAY; damp	2	2										
	---RDR 2---	3	3										
	---RDR 2---	4	4		1.97	28							
	849.6 Very stiff to hard, brown to gray SILTY CLAY, trace gravel; moist	3	6										
	---RDR 2---	5	9		5.49	17							
	---RDR 2---	11	11										
	---RDR 2---	8	8		8.12	18							
	---RDR 2---	11	17										
	---RDR 2---	17	18										
	841.7 Very stiff to hard, gray SILTY CLAY, trace gravel; moist	5	8										
	---RDR 2---	11	15		8.20	14							
	---RDR 2---	15	15										
	840.0 Medium stiff, brown and gray CLAY to SILTY CLAY; moist	3	3										
	---RDR 2---	4	4										
	Very stiff to hard, brown to gray SILTY CLAY, trace gravel; moist	4	5										
	---RDR 2---	10	10										
	---RDR 2---	12	12		5.17	18							
	---RDR 2---	16	16										
	837.4 Boring terminated at 16.00 ft	7	7		4.10	18							
	---RDR 2---	11	14										
	---RDR 2---	13	13										
	---RDR 2---	14	14										
	829.5 Boring terminated at 16.00 ft	4	4		2.79	17							
	---RDR 2---	8	8										
	---RDR 2---	10	10										

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	02-14-2022	Complete Drilling	02-14-2022
Drilling Contractor	Wang Testing Services	Drill Rig	21D50A [84%]
Driller	KS&AP	Logger	A. Scifers
Checked by	C. Marin	Time After Drilling	NA
Drilling Method	2.25" ID HSA; Boring backfilled upon completion	Depth to Water	NA

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BORING LOG NB-SGB-02 Page 1 of 1
WEI Job No.: 1064-01-01
Client: **Ardmore Roderick**
Project: **Barrington Rd from Algonquin Rd to Central Rd**
Location: **Cook County, IL**
Datum: NAVD 88
Elevation: 845.46 ft
North: 1973228.16 ft
East: 1036480.01 ft
Station: 52+88.27
Offset: 32.50 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
844.8	8-inch thick, black SILTY CLAY	11	6										
	---TOPSOIL---	6	4										
	Stiff to very stiff, black and brown SILTY CLAY, trace gravel; moist	1	5		2.05	22							
	---FILL---	3	3										
	---RDR 2---	3	3										
	---L _c (%)=47, P _c (%)=16--- ---%Gravel=3.2--- ---%Sand=14.4--- ---%Silt=50.6--- ---%Clay=31.8--- ---A-7-6 (25)---	2	4	1.39	26								
	841.7 Medium stiff, brown and gray CLAY to SILTY CLAY; moist	3	4										
	---RDR 2---	4	4		0.98	25							
	Very stiff to hard, brown to gray SILTY CLAY, trace gravel; moist	4	5										
	---RDR 2---	8	8		4.10	15							
	---RDR 2---	10	10										
	---RDR 2---	12	12										
	840.0 Medium stiff, brown and gray CLAY to SILTY CLAY; moist	5	9										
	---RDR 2---	11	11		4.43	21							
	Very stiff to hard, brown to gray SILTY CLAY, trace gravel; moist	5	10										
	---RDR 2---	12	12										
	---RDR 2---	15	15		4.00	15							
	837.4 Boring terminated at 16.00 ft	6	6										
	---RDR 2---	10	10										
	---RDR 2---	12	12										
	833.8 Boring terminated at 16.00 ft	7	7		4.10	17							
	---RDR 2---	11	11										
	---RDR 2---	13	13										
	829.5 Boring terminated at 16.00 ft	8	8		2.62	16							
	---RDR 2---	10	10										
	---RDR 2---	12	12										

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	02-14-2022	Complete Drilling	02-14-2022
Drilling Contractor	Wang Testing Services	Drill Rig	21D50A [84%]
Driller	KS&AP	Logger	A. Scifers
Checked by	C. Marin	Time After Drilling	NA
Drilling Method	2.25" ID HSA; Boring backfilled upon completion	Depth to Water	NA

MODEL - Sheet 26 (Sheet)
FILE NAME - p:\projects\10640101\101200018\CAD\02 - Sheets\21-Standard\01633-SHT-SoilBorings.dgn



USER NAME	= MatthewToussaint	DESIGNED	- CMW	REVISED	-
PLOT SCALE	= 0.16666633 1/16	DRAWN	- IAK	REVISED	-
PLOT DATE	= 2/3/2026	CHECKED	- CMW	REVISED	-
		DATE	- 02/02/2026	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE:		SHEET 26	OF 28 SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	377
CONTRACT NO. 62K33				
ILLINOIS FED. AID PROJECT				

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 1145 N. Main Street
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 Telephone: 630-953-9928
 Fax: 630-953-9938

BORING LOG NB-SGB-02
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 845.46 ft
 North: 1973228.16 ft
 East: 1036480.01 ft
 Station: 52+88.27
 Offset: 32.50 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
844.8	8-inch thick, black SILTY CLAY --TOPSOIL-- Stiff to very stiff, black and brown SILTY CLAY, trace gravel; moist	1	1	11	2.05	22
841.7	--FILL-- --RDR 2-- -L _c (%)=47, P _c (%)=16 -%Gravel=3.2 -%Sand=14.4 -%Silt=50.6 -%Clay=31.8 -A-7-6 (25)	2	2	3	1.39	26
840.0	Medium stiff, brown and gray CLAY to SILTY CLAY; moist	3	3	3	0.98	25
	Very stiff to hard, brown to gray SILTY CLAY, trace gravel; moist	4	4	5	4.10	15
		5	5	8	4.43	21
		6	6	10	4.00	15
		7	7	8	4.10	17
		8	8	10	2.62	16
		10	10	11		
		11	11	12		
		12	12			
		13	13			
		14	14			
		15	15			
		16	16			
		17	17			
		18	18			
		19	19			
		20	20			

GENERAL NOTES
 Begin Drilling: 02-14-2022 Complete Drilling: 02-14-2022
 Drilling Contractor: Wang Testing Services Drill Rig: 21D50A [84%]
 Driller: KS&AP Logger: A. Scifers Checked by: C. Marin
 Drilling Method: 2.25" ID HSA; Boring backfilled upon completion

WATER LEVEL DATA
 While Drilling: Dry
 At Completion of Drilling: Dry
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG NB-SGB-01
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 848.67 ft
 North: 1972633.82 ft
 East: 1036501.15 ft
 Station: 46+92.98
 Offset: 54.74 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
847.9	9-inch thick, black SILTY CLAY --TOPSOIL-- Hard, black to brown CLAY to SILTY CLAY, trace to little organic matter; moist	1	1	12	4.10	21
844.9	--REWORKED TOPSOIL-- --RDR 2--	2	2	6	4.18	38
	Stiff to hard, brown to gray SILTY CLAY to SILTY CLAY LOAM, trace gravel; moist	3	3	5	5.74	18
		4	4	6	2.79	19
		5	5	7	6.48	18
		6	6	10	4.92	18
		7	7	10	4.51	16
		8	8	11	1.97	13
		9	9			
		10	10			
		11	11			
		12	12			
		13	13			
		14	14			
		15	15			
		16	16			
		17	17			
		18	18			
		19	19			
		20	20			

GENERAL NOTES
 Begin Drilling: 02-14-2022 Complete Drilling: 02-14-2022
 Drilling Contractor: Wang Testing Services Drill Rig: 21D50A [84%]
 Driller: KS&AP Logger: A. Scifers Checked by: C. Marin
 Drilling Method: 2.25" ID HSA; Boring backfilled upon completion

WATER LEVEL DATA
 While Drilling: Dry
 At Completion of Drilling: Dry
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG DPB-06
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 842.69 ft
 North: 1977075.45 ft
 East: 1036494.09 ft
 Station: 91+34.16
 Offset: 62.60 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
841.7	12-inch thick, black CLAY LOAM; damp	1	1	12	1.00	21
839.7	Stiff, black and gray SANDY LOAM, trace gravel and few brick fragments; moist	2	2	10	2.21	36
837.2	Very stiff, black SILTY CLAY, trace organic matter; moist	3	3	6	0.66	30
	Medium stiff, brown and gray CLAY to SILTY CLAY, trace gravel; moist	4	4	5	1.56	19
		5	5	7	4.43	17
		6	6	8	3.20	18
		7	7	10	3.85	15
		8	8	11	3.12	15
		9	9			
		10	10			
		11	11			
		12	12			
		13	13			
		14	14			
		15	15			
		16	16			
		17	17			
		18	18			
		19	19			
		20	20			

GENERAL NOTES
 Begin Drilling: 02-03-2022 Complete Drilling: 02-03-2022
 Drilling Contractor: Wang Testing Services Drill Rig: 21D50A [84%]
 Driller: KS&AP Logger: A. Scifers Checked by: C. Marin
 Drilling Method: 2.25" ID HSA; Boring backfilled upon completion

WATER LEVEL DATA
 While Drilling: Dry
 At Completion of Drilling: Dry
 Time After Drilling: NA
 Depth to Water: NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

MODEL: Sheet 27 (Sheet)
 FILE NAME: p:\projects\10640101\101200018\CAD\02 - Sheets\21-Standard\01633-SHT-SoilBorings.dgn
 WANGENG 10640101.GPJ WANGENG.GDT 7/17/24



USER NAME = MatthewToussaint	DESIGNED - CMW	REVISED -
PLOT SCALE = 0.16666633 1/16"	DRAWN - IAK	REVISED -
PLOT DATE = 2/3/2026	CHECKED - CMW	REVISED -
	DATE - 02/02/2026	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SOIL BORINGS LOG

SCALE: SHEET 27 OF 28 SHEETS STA. TO STA.

F.A.P. RTE. 362	SECTION 2019-161-W	COUNTY COOK	TOTAL SHEETS 666	SHEET NO. 378
CONTRACT NO. 62K33				
ILLINOIS FED. AID PROJECT				

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BORING LOG DPB-05
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 840.43 ft
 North: 1976895.29 ft
 East: 1036491.71 ft
 Station: 89+54.04
 Offset: 57.92 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
839.4	12-inch thick, black SILTY CLAY, trace gravel --TOPSOIL-- Stiff, black SILTY CLAY, some organic matter; moist --RDR 2--	0													
		1	4	4	4	1.00	42								
		2	4	2	3	1.15	34								
834.9	Very stiff to hard, gray SILTY CLAY, trace gravel; moist --RDR 2--	5	3	4	6	3.12	22								
		10	3	7	9	4.18	20								
		15	6	8	9	3.28	20								
		20	3	6	11	4.26	19								
820.4		20	4	5	11	3.44	18								

GENERAL NOTES
 Begin Drilling 02-04-2022 Complete Drilling 02-04-2022
 Drilling Contractor Wang Testing Services Drill Rig 21D50A [84%]
 Driller KS&AP Logger A. Scifers Checked by C. Marin
 Drilling Method 2.25" ID HSA; Boring backfilled upon completion

WATER LEVEL DATA
 While Drilling 11.00 ft
 At Completion of Drilling Dry
 Time After Drilling NA
 Depth to Water NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG DPB-04
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 838.41 ft
 North: 1976724.08 ft
 East: 1036488.32 ft
 Station: 87+82.89
 Offset: 52.36 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
837.4	12-inch thick, black SILTY CLAY, trace gravel --TOPSOIL-- Stiff to hard, brown to gray SILTY CLAY, trace gravel; moist --RDR 2-- --wet spoon--	0													
		1	3	4	5	2.46	23								
		2	2	3	6	2.87	22								
		5	7	8	12	5.00	20								
		10	4	5	8	2.38	18								
		15	3	4	6	1.23	18								
823.8	Gray SILT, trace gravel; saturated --RDR 2--	15	5	9	12	2.50	15								
822.3	Medium stiff, gray SILTY CLAY, trace gravel; moist --RDR 2--	17	5	6	8	0.90	14								
820.4	Stiff, gray SILTY LOAM to SILTY CLAY LOAM, trace gravel; moist --RDR 2--	20	5	6	9	1.72	12								

GENERAL NOTES
 Begin Drilling 02-04-2022 Complete Drilling 02-04-2022
 Drilling Contractor Wang Testing Services Drill Rig 21D50A [84%]
 Driller KS&AP Logger A. Scifers Checked by C. Marin
 Drilling Method 2.25" ID HSA; Boring backfilled upon completion

WATER LEVEL DATA
 While Drilling 3.50 ft
 At Completion of Drilling Dry
 Time After Drilling NA
 Depth to Water NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG CUL-01
 WEI Job No.: 1064-01-01
 Client: **Ardmore Roderick**
 Project: **Barrington Rd from Algonquin Rd to Central Rd**
 Location: **Cook County, IL**

Datum: NAVD 88
 Elevation: 841.55 ft
 North: 1976246.54 ft
 East: 1036428.95 ft
 Station: 83+06.05
 Offset: 9.78 LT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
840.3	15-inch thick ASPHALT --PAVEMENT-- Stiff to hard, brown and gray CLAY LOAM to SILTY CLAY LOAM, trace gravel; moist --FILL-- --RDR 2 to 3--	0													
		1	8	7	7	5.33	18								
		2	3	3	4	1.00	17								
836.1	Medium stiff, gray SILTY CLAY, trace gravel; moist --FILL-- --RDR 2--	5	3	2	4	0.74	25								
833.6	Stiff (1.0P), gray CLAY to SILTY CLAY; moist --RDR 2--	10	2	2	2	0.50	107								
829.7	Soft to medium stiff, black Organic SILTY LOAM; moist --RDR 1-- --L(%)=120, P(%)=101-- --%Gravel=0.0-- --%Sand=31.5-- --%Silt=58.7-- --%Clay=9.9-- --A-7-5 (25)--	10	2	2	2	0.25	161								
827.2	Very soft, black and brown PEAT; moist --RDR 1--	15	2	1	2	< 0.25	291								
	Very soft to medium stiff, gray Organic SILTY CLAY; moist --RDR 2--	35	6	6	6										
		40	2	3	4	0.57	73								
823.6	Very stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel; moist --RDR 2--	40	4	6	7	2.38	25								

GENERAL NOTES
 Begin Drilling 02-08-2022 Complete Drilling 02-08-2022
 Drilling Contractor Wang Testing Services Drill Rig 21D50A [84%]
 Driller KS&AP Logger A. Scifers Checked by C. Marin
 Drilling Method 2.25" ID HSA; Boring backfilled upon completion

WATER LEVEL DATA
 While Drilling Dry
 At Completion of Drilling Dry
 Time After Drilling NA
 Depth to Water NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

MODEL - Sheet 28 (Sheet)
 FILE NAME - p:\projects\2020\1001010101\1001010101\CAD\02 - Sheets\21-Standard\DL163\33-SHT-SoilBorings.dgn
 WANGENG 10640101.GPJ WANGENG.GDT 7/17/24

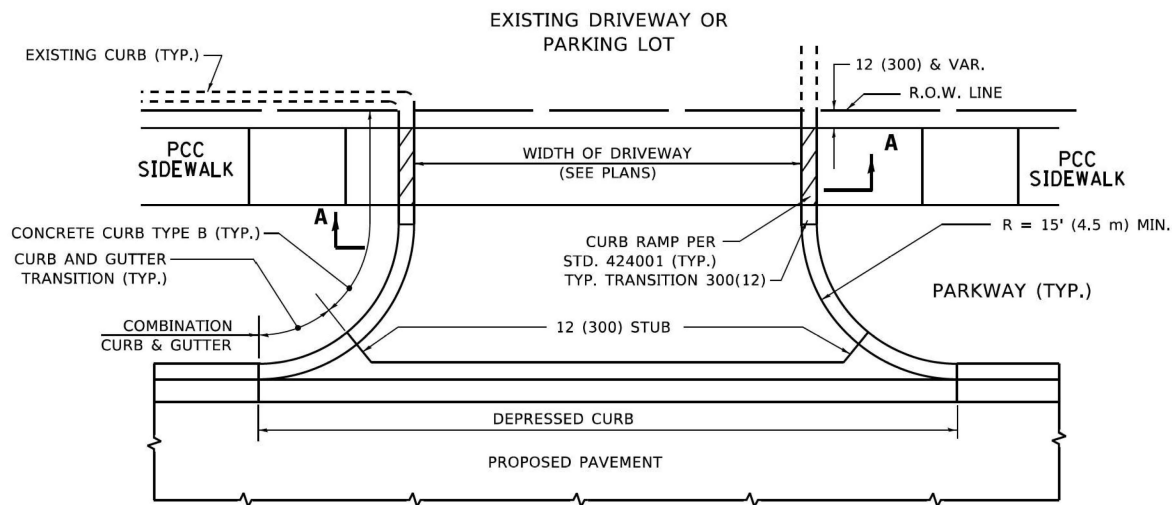


USER NAME = MatthewToussaint	DESIGNED - CMW	REVISED -
PLOT SCALE = 0.16666633 1/16"	DRAWN - IAK	REVISED -
PLOT DATE = 2/3/2026	CHECKED - CMW	REVISED -
	DATE - 02/02/2026	REVISED -

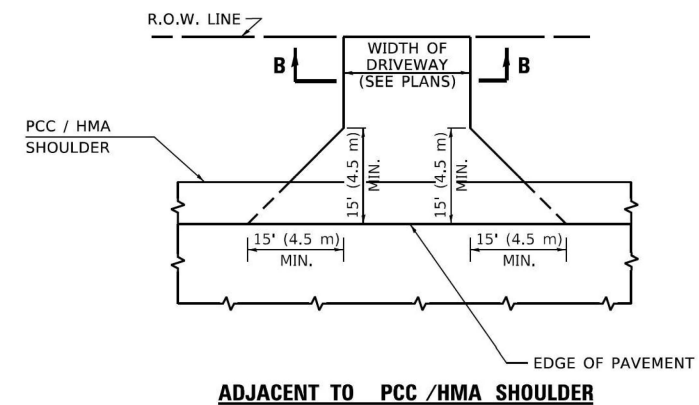
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SCALE:	SHEET 28	OF 28 SHEETS	STA.	TO STA.
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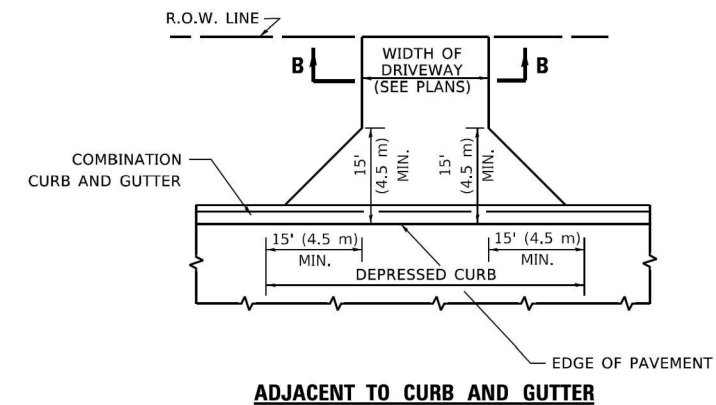
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	379
CONTRACT NO. 62K33				
ILLINOIS FED. AID PROJECT				



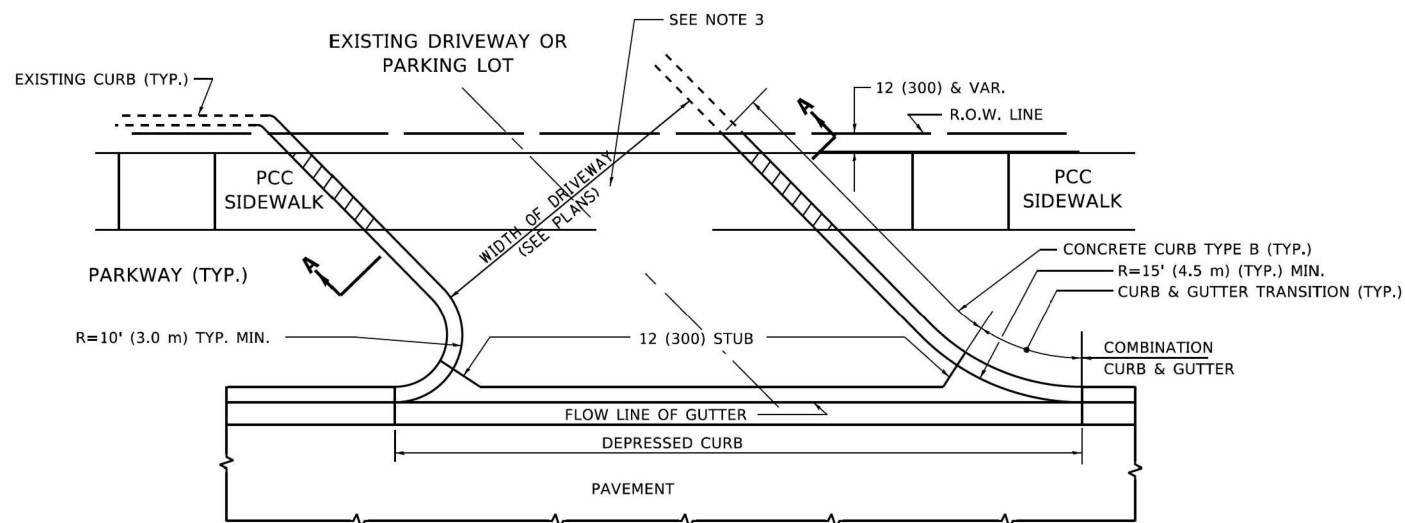
WITH CONCRETE CURB, TYPE B



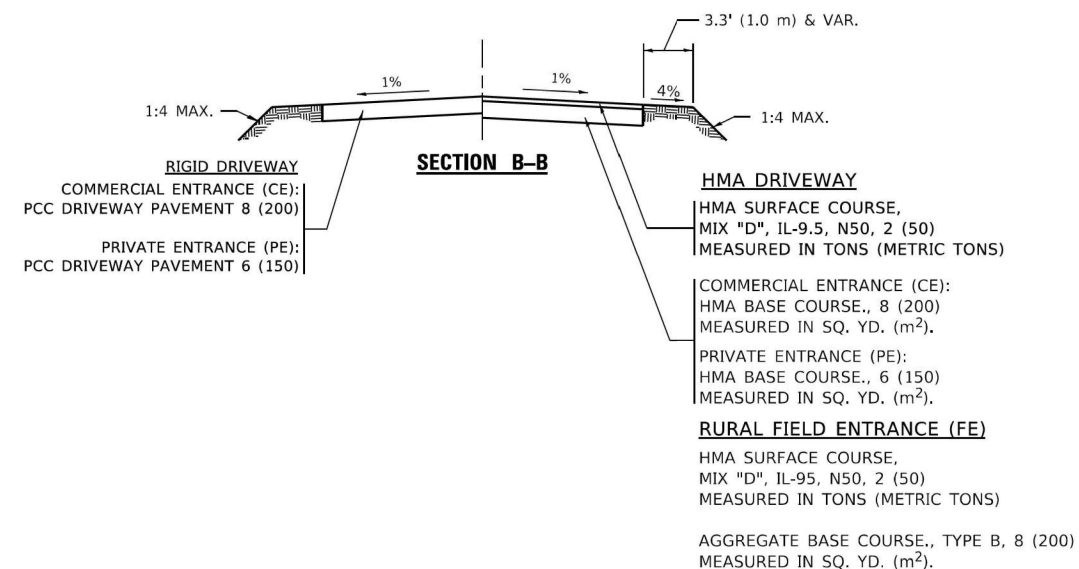
ADJACENT TO PCC /HMA SHOULDER



ADJACENT TO CURB AND GUTTER

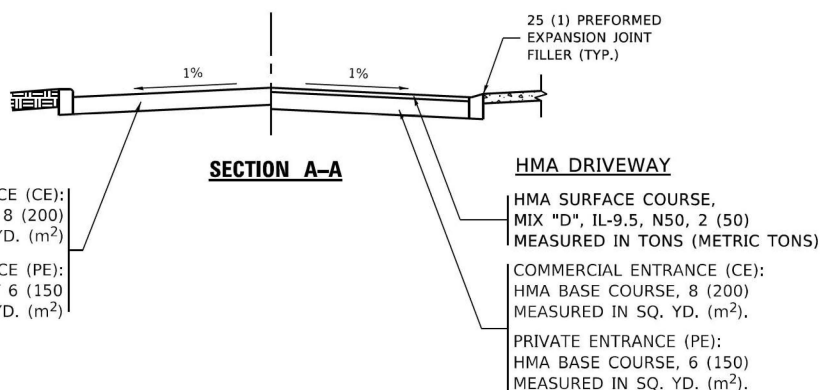


WITH CONCRETE CURB, TYPE B



GENERAL NOTES

- DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.
- COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.



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

MODEL: STD-01 (BD-01)
 FILE NAME: p:\proj\pawm01.e-transyscorp.com\transyscorp\paw\Documents\Projects_2020\C140\1401200019\CAD02 - Sheets\F1-Standards\Projects_2020\C140\1401200019\CAD02 - Sheets\F1-STD-Standards.dgn



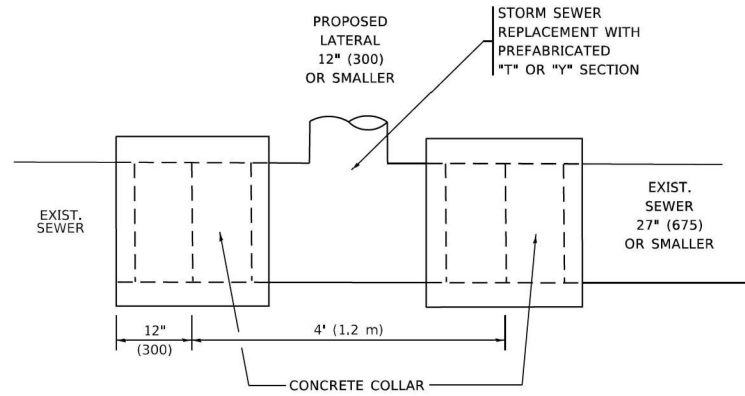
USER NAME = MatthewToussaint	DESIGNED - \$DESIGNED	REVISED -
PLOT SCALE = 39.99992000' / in.	DRAWN - \$DRAWN	REVISED -
PLOT DATE = 2/3/2026	CHECKED - \$CHECKED	REVISED -
	DATE - 02/02/2026	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W.
 AND FACE OF CURB & EDGE OF SHOULDER ≥15'(4.5M)**

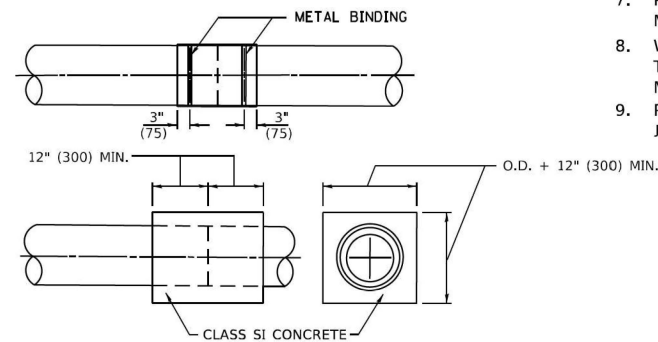
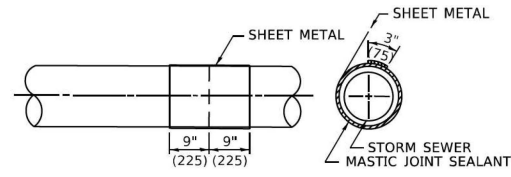
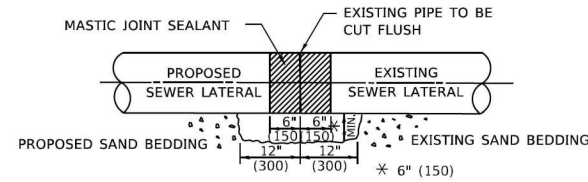
SCALE: SHEET 1 OF 17 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	380
BD400-01 (BD-01)			CONTRACT NO. 62K33	
ILLINOIS FED. AID PROJECT				



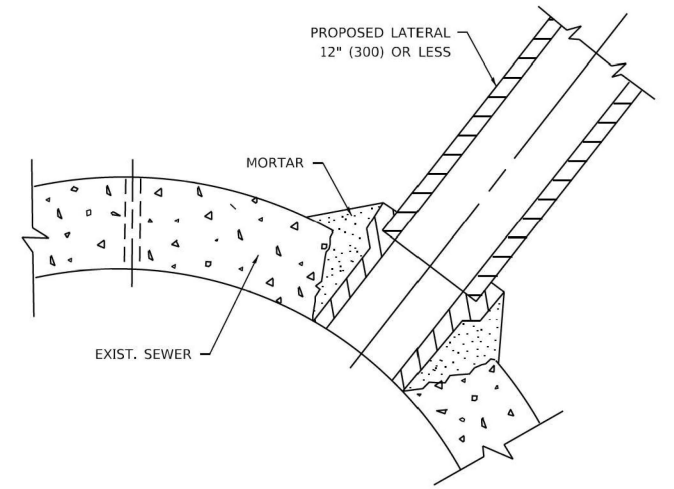
DETAIL "A"

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



DETAIL "B"

CLASS SI CONCRETE COLLAR



DETAIL "C"

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

CONSTRUCTION SEQUENCE

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

NOTES:

MATERIAL

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

CONSTRUCTION METHODS

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

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

GENERAL

1. CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED, THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.
2. CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

BASIS OF PAYMENT

1. TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS, THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.
2. REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.
3. TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.
4. CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

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

MODEL: STD-02 (BD-07)
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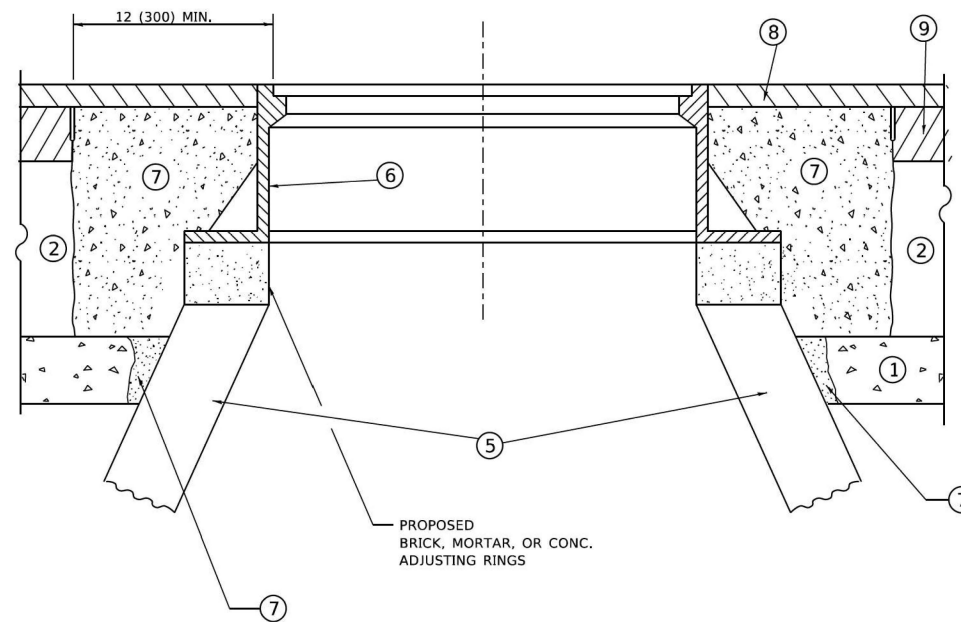
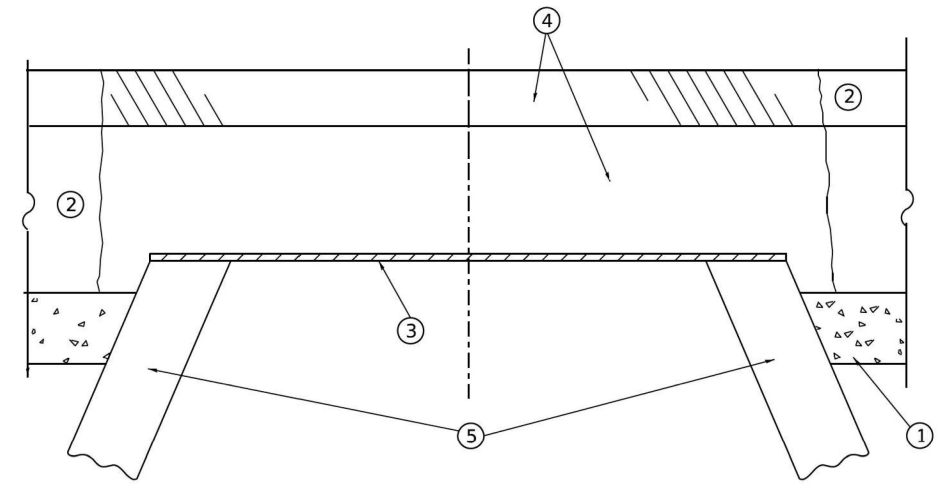
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PLOT DATE	= 2/3/2026	DATE	- 02/02/2026	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF STORM SEWER
CONNECTION TO EXISTING SEWER

SCALE: SHEET 2 OF 17 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	381
BD500-01 (BD-07)			CONTRACT NO. 62K33	
ILLINOIS FED. AID PROJECT				



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

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

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

STAGE 2 (AFTER PAVEMENT MILLING)

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

* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

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

LEGEND

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

LOCATION OF STRUCTURES

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

BASIS OF PAYMENT

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

NOTES

- 1. EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.
- 2. IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.
- 3. CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.
- 4. THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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PLOT DATE = 2/3/2026	DATE - 02/02/2026	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

SCALE: SHEET 3 OF 17 SHEETS STA. TO STA.

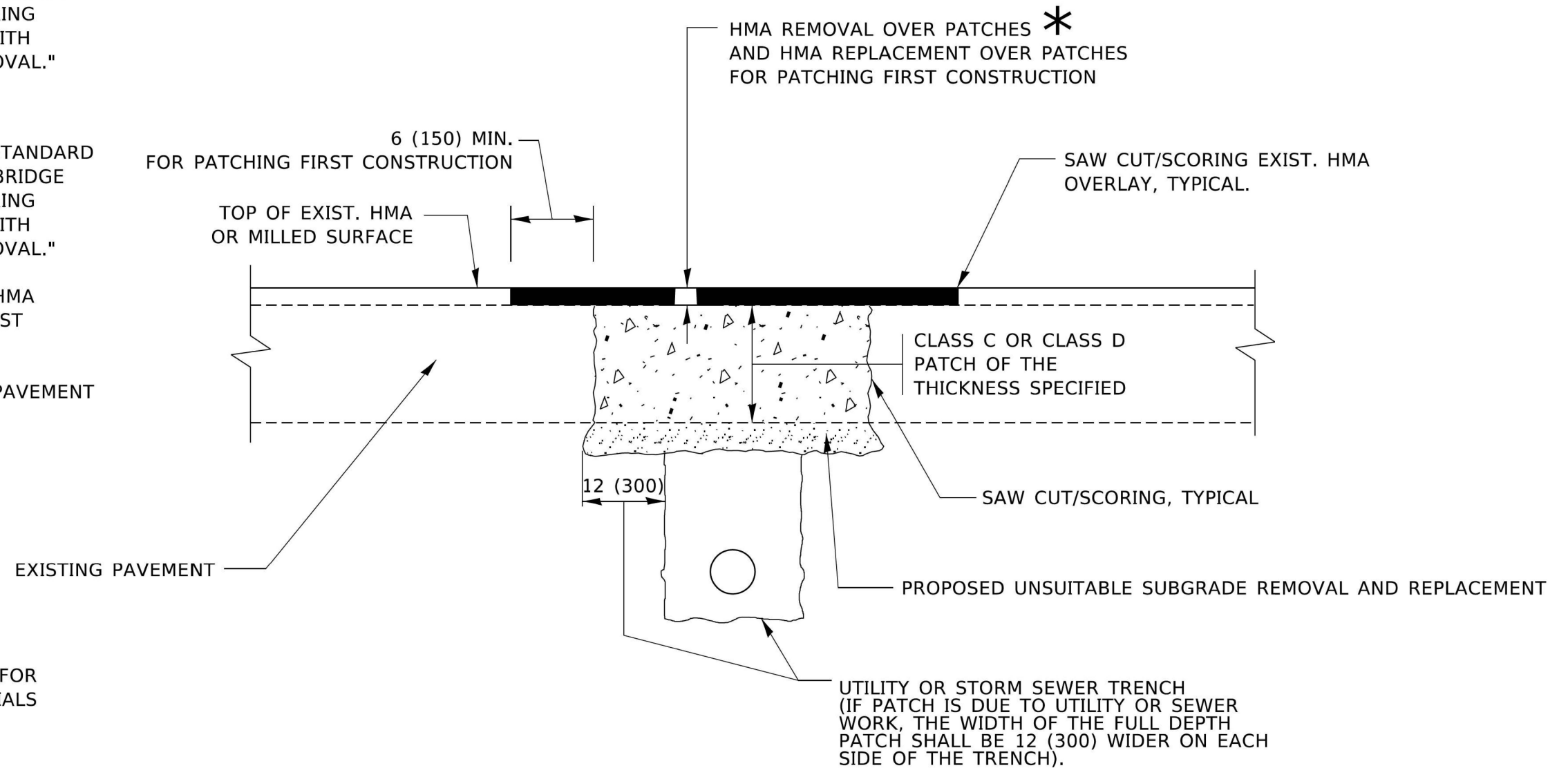
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	382
BD600-03 (BD-08)		CONTRACT NO. 62K33		
ILLINOIS FED. AID PROJECT				

METHOD OF MEASUREMENT

REFER TO SECTION 442 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL."

BASIS OF PAYMENT

1. REFER TO SECTION 442 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL."
2. SAW CUT/SCORING OF EXISTING HMA OVERLAY IS INCLUDED IN THE COST OF PAVEMENT PATCHING.
3. SAW CUT/SCORING OF EXISTING PAVEMENT IS INCLUDED IN THE COST OF PAVEMENT PATCHING.



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

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

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4½ INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

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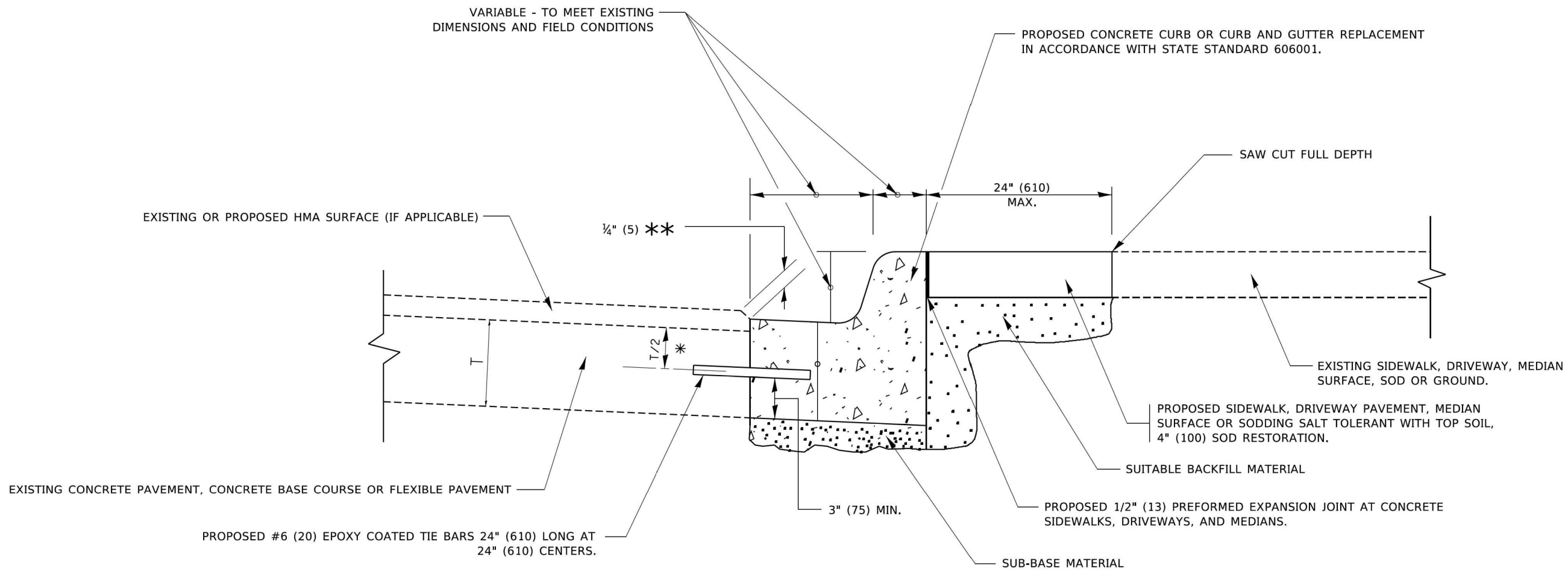
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PLOT DATE = 2/3/2026		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT PATCHING FOR
HMA SURFACED PAVEMENT**

SCALE: SHEET 4 OF 17 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	383
BD400-04 (BD-22)			CONTRACT NO. 62K33	
ILLINOIS FED. AID PROJECT				



- * 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.
- ** IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

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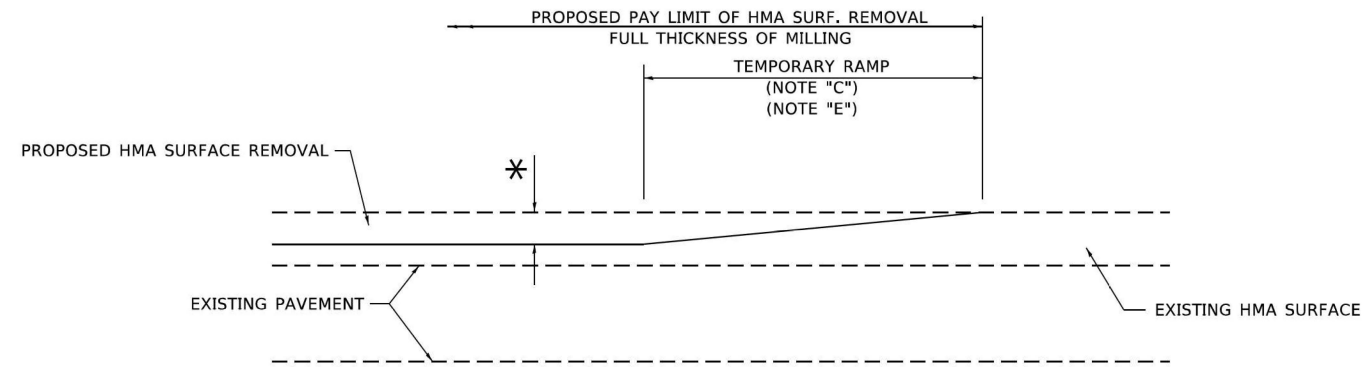
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PLOT DATE = 2/3/2026		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CURB OR CURB AND GUTTER
REMOVAL AND REPLACEMENT**

SCALE: SHEET 5 OF 17 SHEETS STA. TO STA.

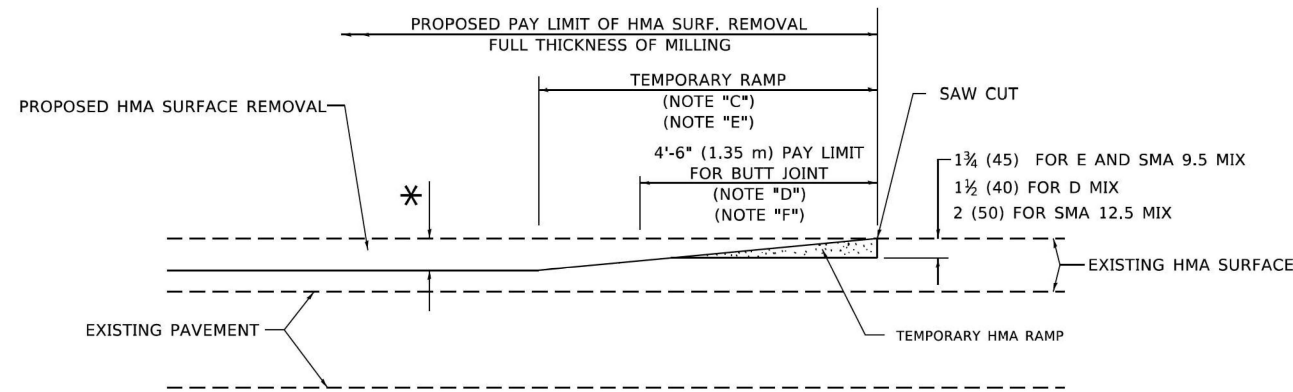
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362	2019-161-W	COOK	666	384
BD600-06 (BD-24)		CONTRACT NO. 62K33		
ILLINOIS FED. AID PROJECT				



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

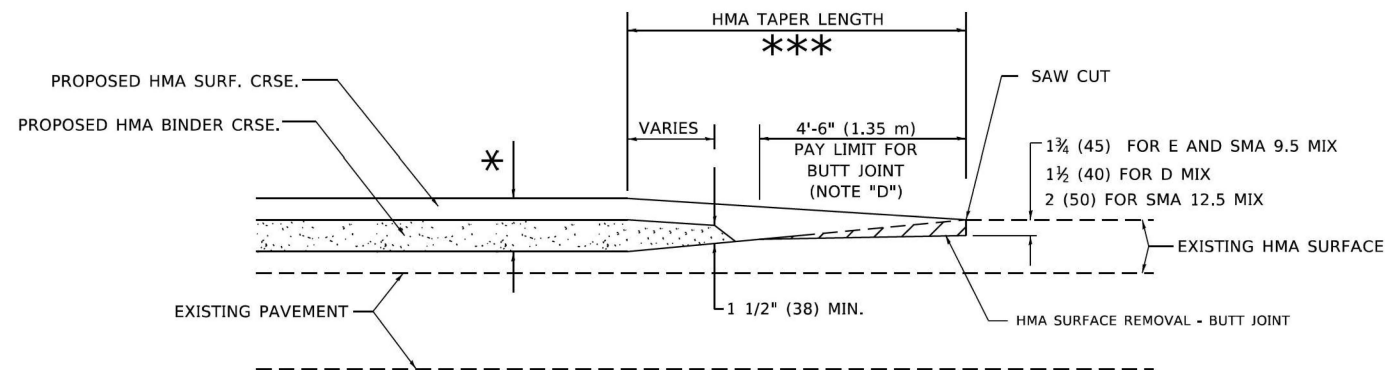


HMA CONSTRUCTED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

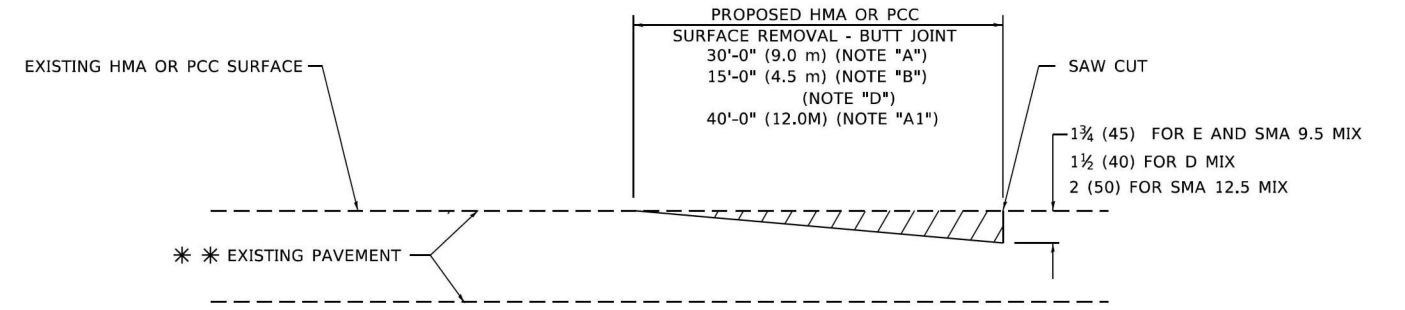
OPTION 2

TYPICAL TEMPORARY RAMP

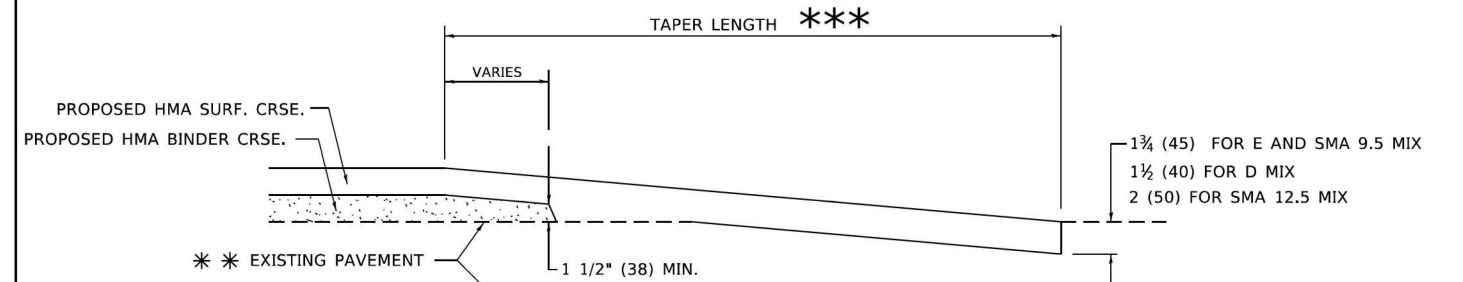


BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

*** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

GENERAL NOTES

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

BASIS OF PAYMENT

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

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

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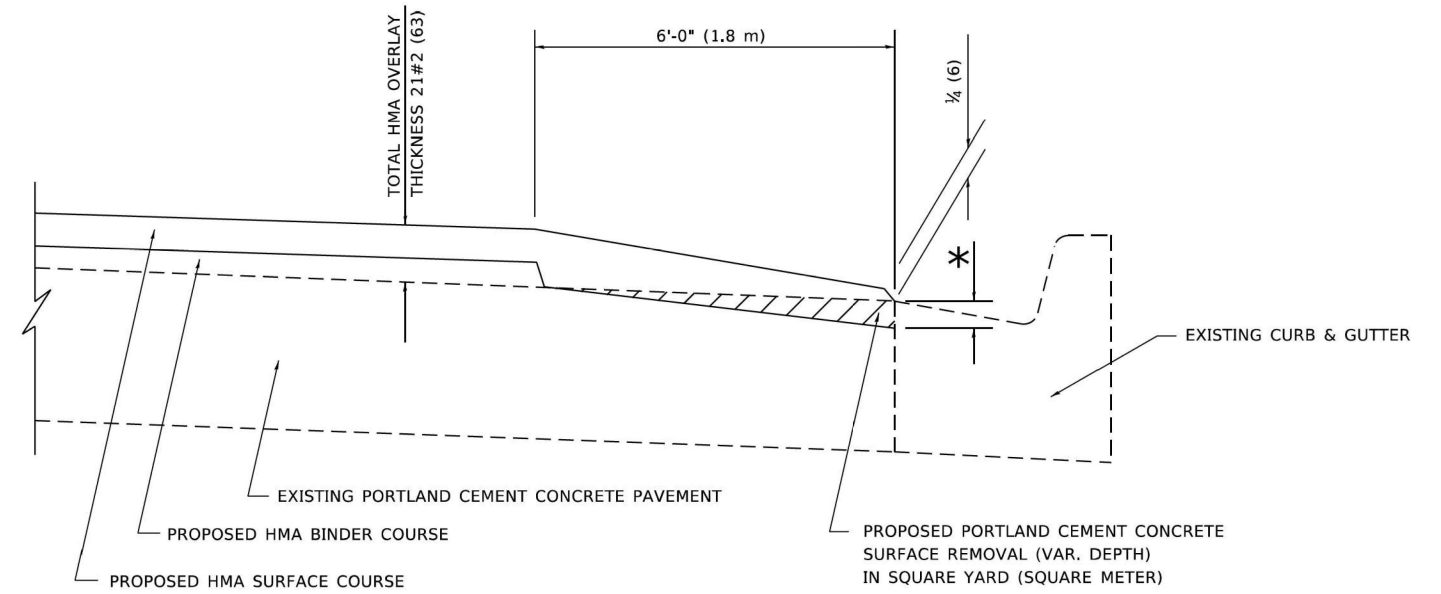
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND
HMA TAPER DETAILS**

SCALE: SHEET 6 OF 17 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	385
BD400-05 (BD-32)			CONTRACT NO. 62K33	
ILLINOIS FED. AID PROJECT				

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**HMA TAPER AT
 EDGE OF P.C.C. PAVEMENT**

HMA SURFACE COURSE	HMA BINDER COURSE	* MILLING AT GUTTER FLAG	
MIX	THICKNESS	THICKNESS	
D	1 1/2 (38)	1 (25)	1 1/4 (33)
E OR SMA 9.5	1 3/4 (44)	3/4 (19)	1 1/2 (38)

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



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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**HMA TAPER AT
 EDGE OF P.C.C. PAVEMENT**

SCALE: SHEET 7 OF 17 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	386
BD400-06 (BD-33)		CONTRACT NO. 62K33		
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

ALTERNATE MATERIAL FOR THE WALLS MAY BE CONCRETE MASONRY UNITS, PRECAST REINFORCED CONCRETE SECTIONS OR CAST-IN-PLACE CONCRETE. THE CAST IRON STEPS AS DETAILED HEREON ARE TYPICAL. STEPS OF OTHER DESIGN AND MATERIAL THAT CONFORM TO THE MINIMUM REQUIREMENTS OF THE STEPS SHOWN MAY BE USED WHEN APPROVED BY THE ENGINEER.

CAST IRON STEPS SHALL BE GRAY IRON CONFORMING TO THE REQUIREMENTS OF ARTICLE 1006.14 OF THE STANDARD SPECIFICATIONS.

STEPS SHALL BE EMBEDDED INTO THE WALL A MINIMUM OF THREE (3) INCHES. STEPS SHALL NOT BE EXTENDED ON THE OUTSIDE.

STEPS SHALL BE OMITTED FOR WORK IN COOK COUNTY WHEN THE DEPTH OF THE MANHOLE IS TEN (10') OR LESS.

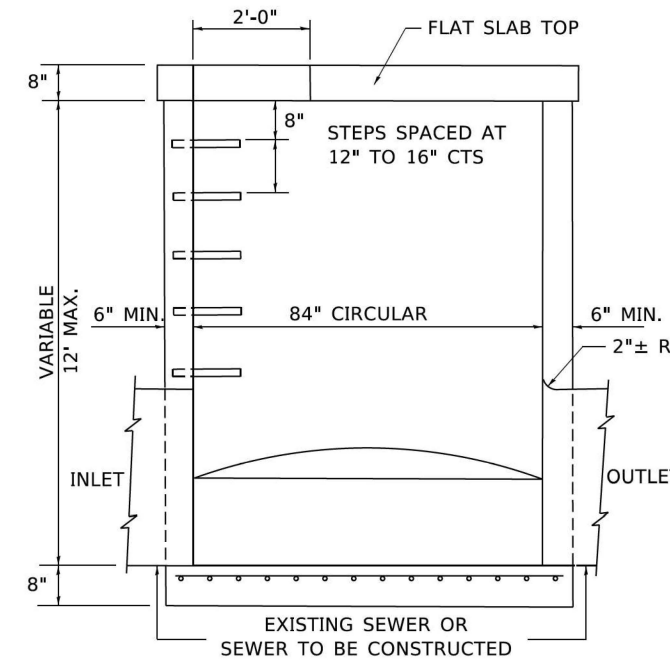
IN ADDITION TO THE REQUIREMENTS OF ARTICLE 612.13 OF THE STANDARD SPECIFICATIONS, THE CONTRACT UNIT PRICE FOR MANHOLES, TYPE A, 7'-DIAMETER SHALL INCLUDE THE SAND CUSHION WHEN REQUIRED, FURNISHING AND INSTALLING STEPS WHEN REQUIRED, FURNISHING AND COMPACTING THE SPECIFIED BACKFILL MATERIAL, AND FURNISHING AND INSTALLING FLAT SLAB TOP.

PRECAST FLAT SLAB TOP SHALL CONFORM TO ARTICLES 505.01 THRU 505.05 OF THE STANDARD SPECIFICATIONS EXCEPT THAT THE CONCRETE STRENGTH SHALL BE 4,000 PSI AFTER 28 DAYS. REINFORCEMENT BARS AND WELDED WIRE FABRIC SHALL CONFORM TO THE REQUIREMENTS OF ARTICLE 1006.10. ONLY GRADE 60 REINFORCEMENT BARS WILL BE PERMITTED.

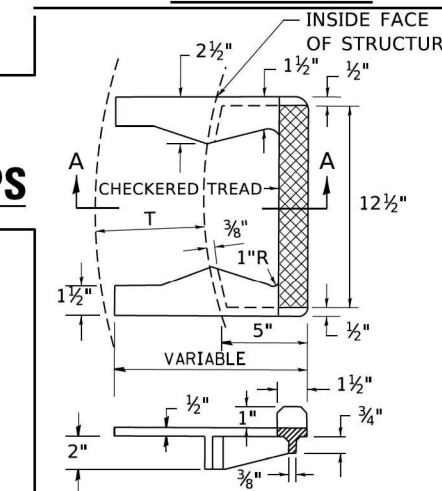
BOTTOM SLAB SHALL BE REINFORCED BY EITHER REINFORCEMENT BARS OR WELDED WIRE FABRIC. THE MINIMUM REINFORCEMENT SHALL BE 0.46 SQUARE INCH PER LINEAR FOOT IN BOTH DIRECTIONS.

JOINT CONFIGURATION AND DIMENSIONS OF FLAT SLAB TOP SHALL MATCH AND FIT THE RISER JOINT DETAIL.

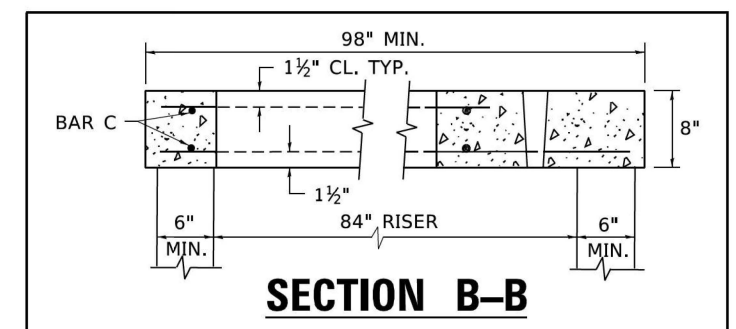
LIFTING DEVICES SHALL BE APPROVED BY THE ENGINEER.



ELEVATION

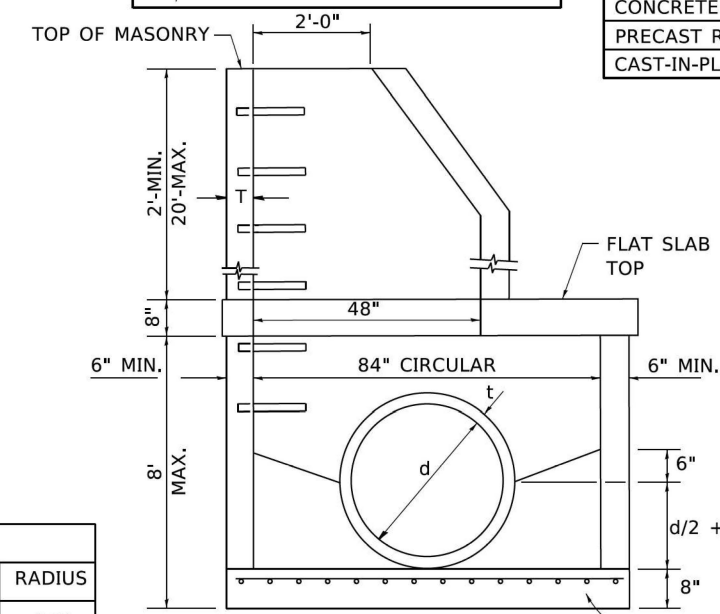


**SEC. A-A
CAST IRON STEPS**

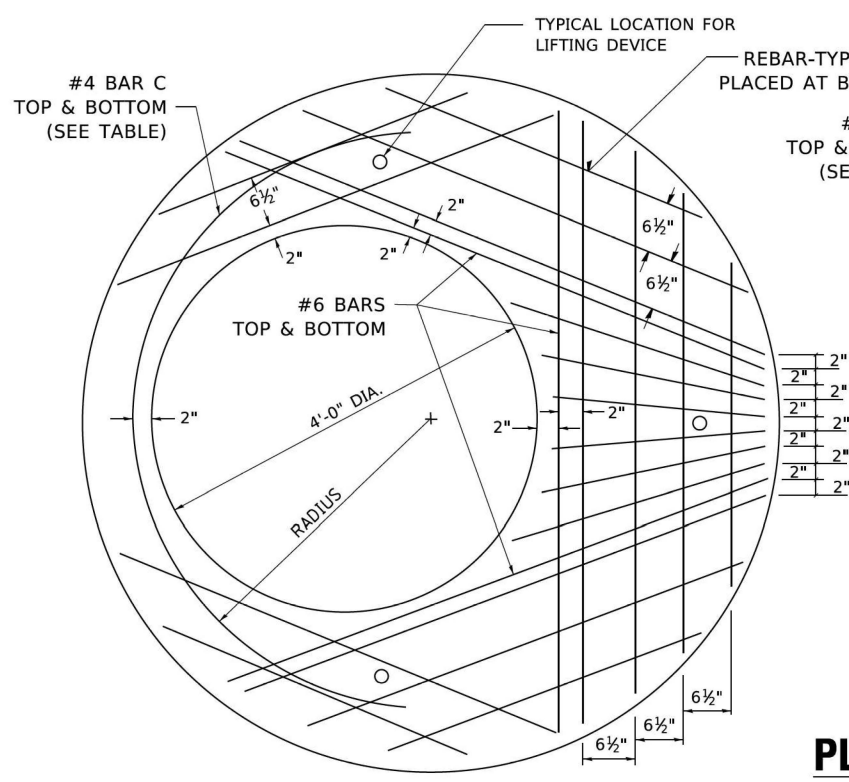
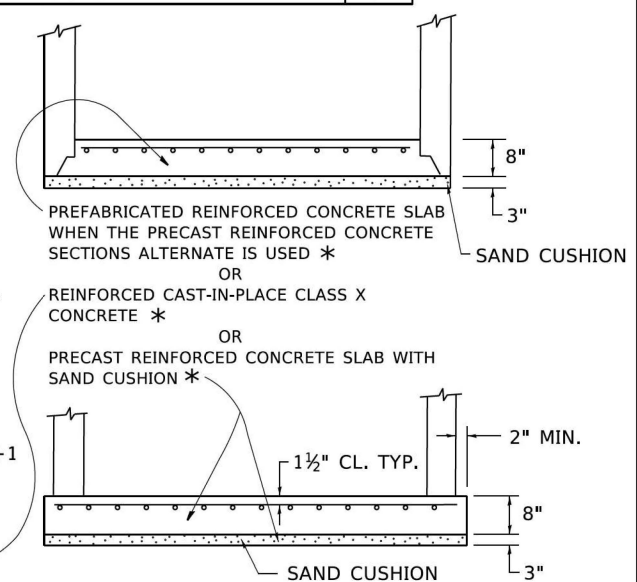


SECTION B-B

ALTERNATE MATERIALS FOR RISERS	T (MIN.)
CONCRETE MASONRY UNITS	5"
PRECAST REINFORCED CONCRETE SECTIONS	4"
CAST-IN-PLACE CONCRETE	6"

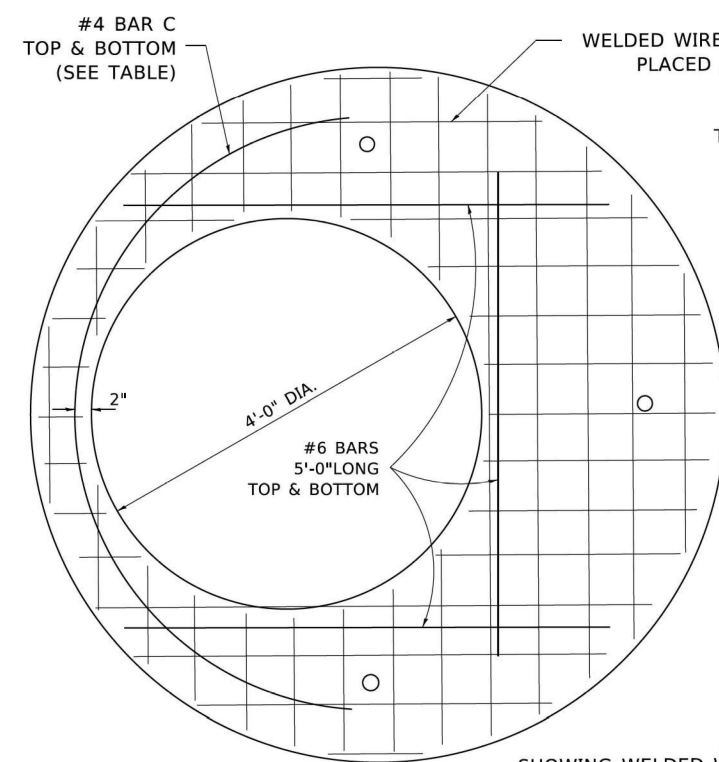
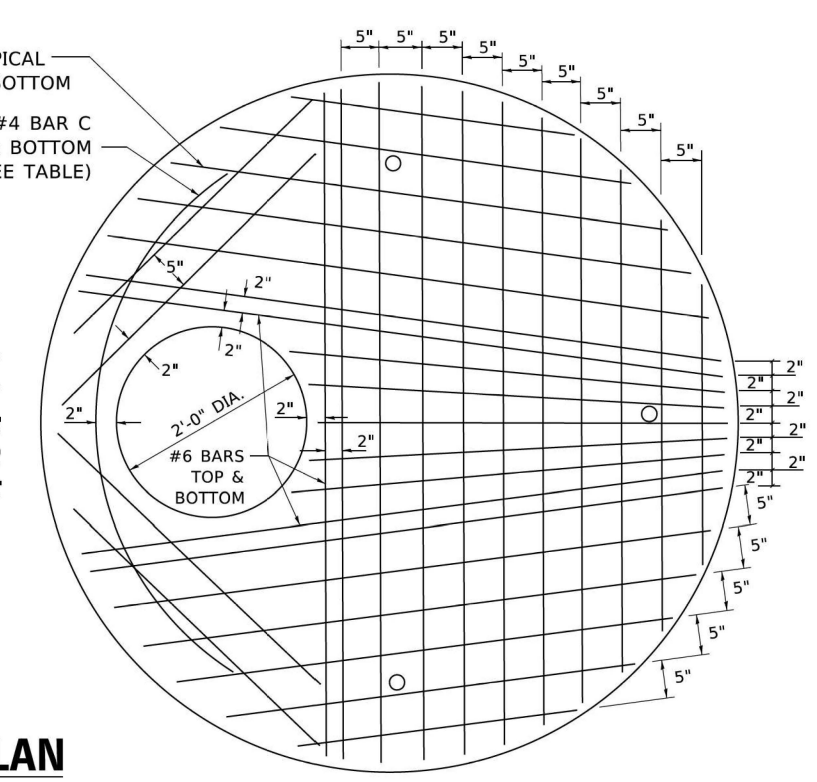


ELEVATION



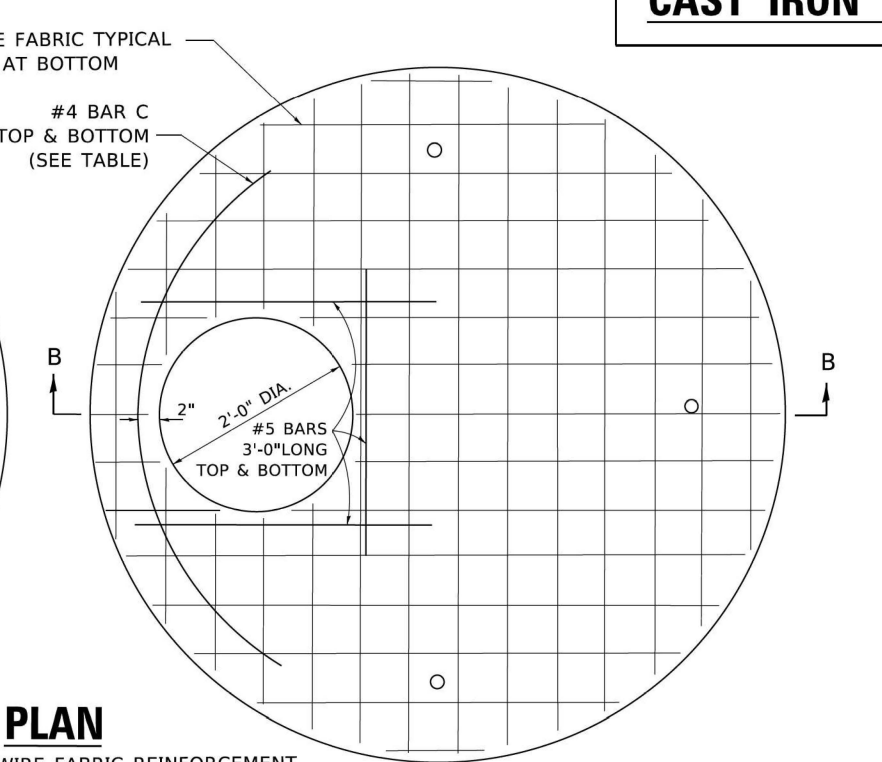
PLAN

SHOWING REBAR REINFORCEMENT



PLAN

SHOWING WELDED WIRE FABRIC REINFORCEMENT



TABLE

NOTE:
THIS STRUCTURE SHOULD BE USED WITH PIPES SIZE 54" DIA. OR SMALLER.

DIAMETER OF OPENING	REINFORCEMENT "As" WWF EACH DIRECTION	OR BAR SIZE	BAR C		
			SIZE	LENGTH	RADIUS
2'-0"	1.06 SQ.IN./LIN.FT.	#6	#4	6'-0"	38"
4'-0"	0.82 SQ.IN./LIN.FT.	#6	#4	9'-0"	38"

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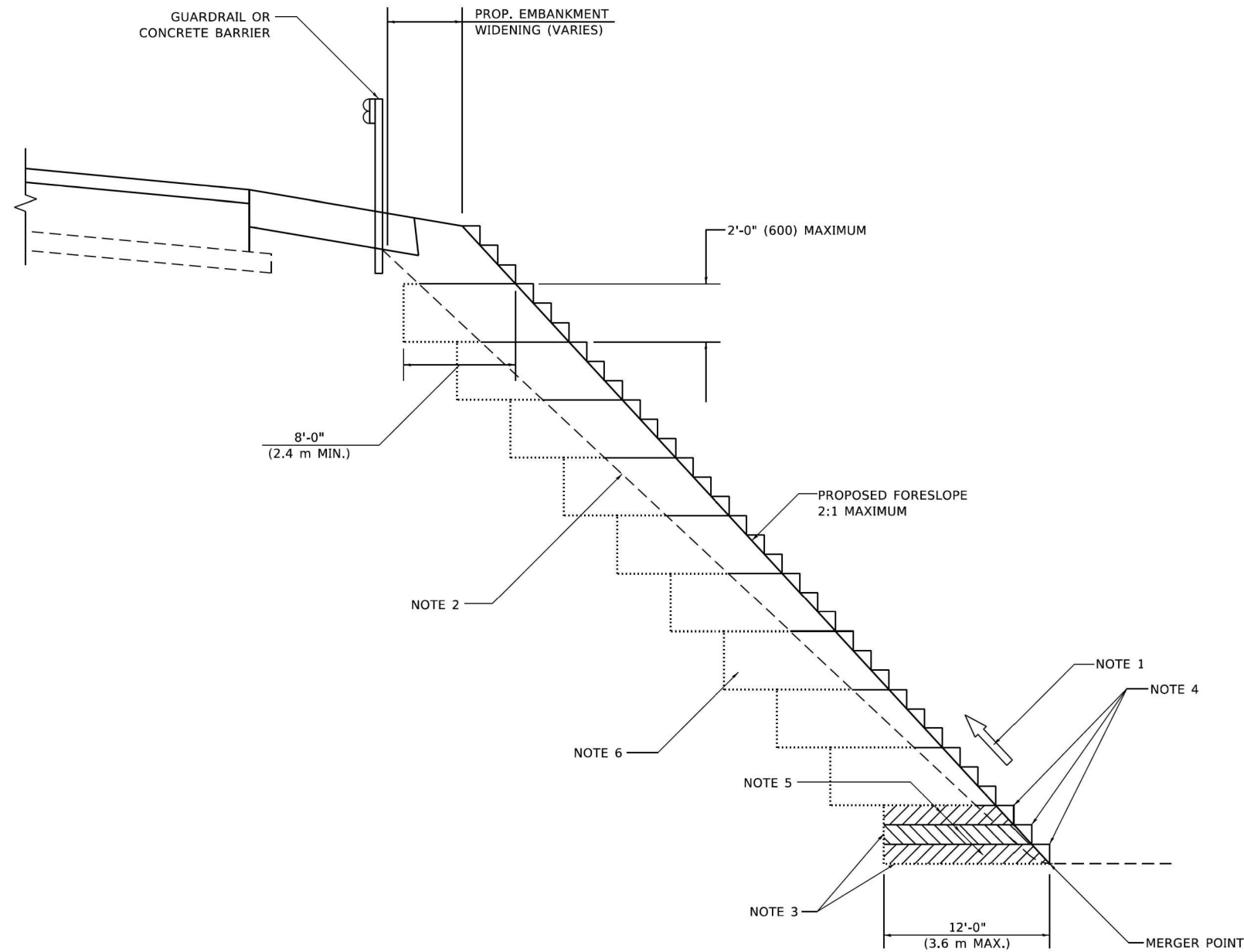


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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MANHOLE TYPE A 7 FOOT DIAMETER
SCALE: SHEET 8 OF 17 SHEETS STA. TO STA.

F.A.P. RTE. 362	SECTION 2019-161-W	COUNTY COOK	TOTAL SHEETS 666	SHEET NO. 387
BD-37		CONTRACT NO. 62K33		
ILLINOIS / FED. AID PROJECT				



**TYPICAL BENCHING DETAIL
FOR EMBANKMENT**

GENERAL NOTES

1. CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
2. EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
3. BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
4. TRIM TO FINAL SLOPE.
5. EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.

BASIS OF PAYMENT

1. EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

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

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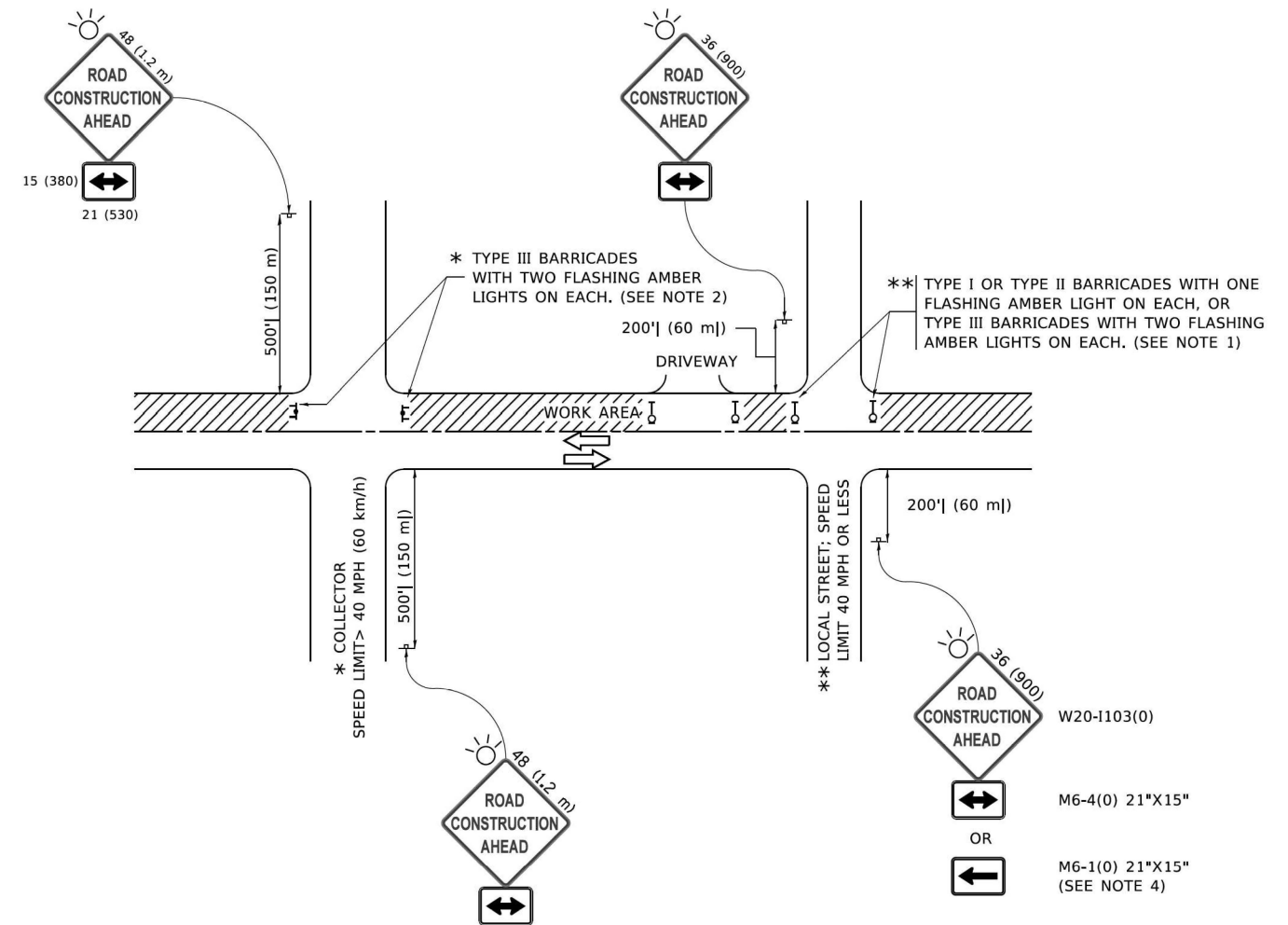
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BENCHING DETAIL
FOR EMBANKMENT WIDENING**

SCALE: SHEET 9 OF 17 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	388
	BD-51			CONTRACT NO. 62K33
		ILLINOIS	FED. AID PROJECT	

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NOTES:

- 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:
 - 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.
 - 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.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - 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.
 - 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.
- 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.
- SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- 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.
- ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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



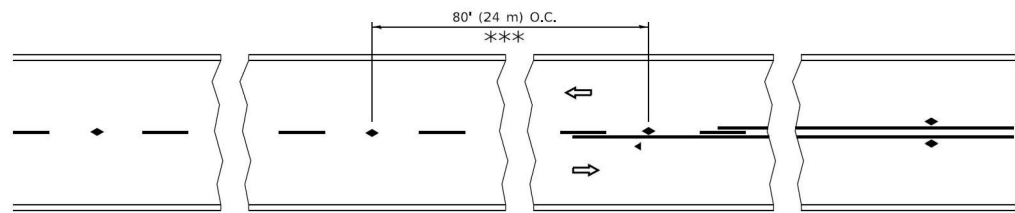
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PLOT SCALE	39.99992000' / in.	DATE	02/02/2026	REVISED	-
PLOT DATE	2/3/2026				

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

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

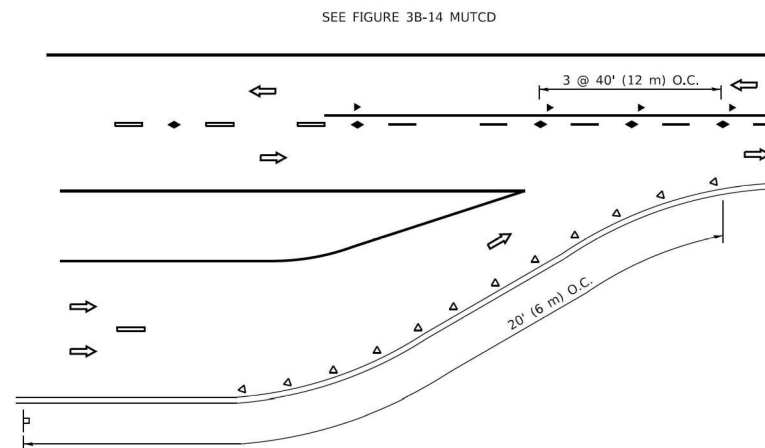
SCALE: SHEET 10 OF 17 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-10			CONTRACT NO. 62K33	
ILLINOIS FED. AID PROJECT				

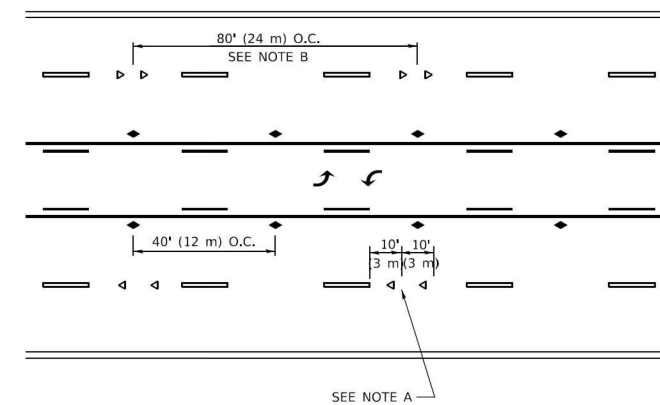


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

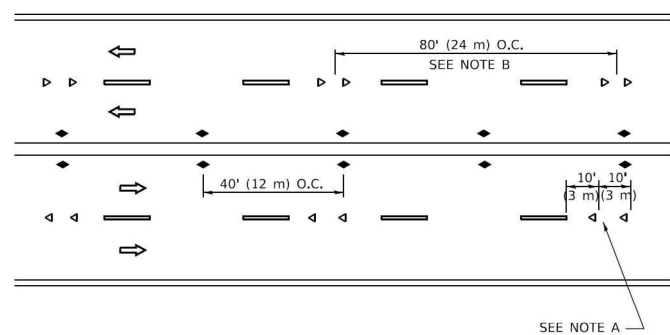
TWO-LANE/TWO-WAY



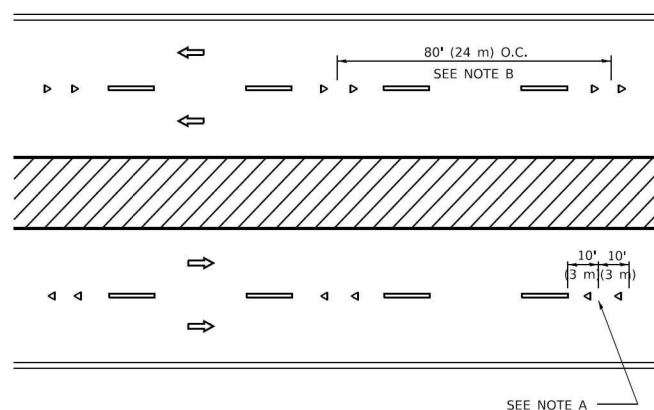
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



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

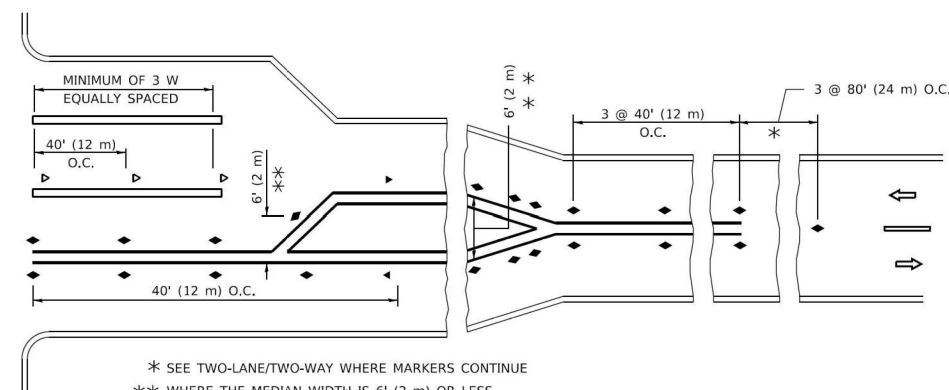
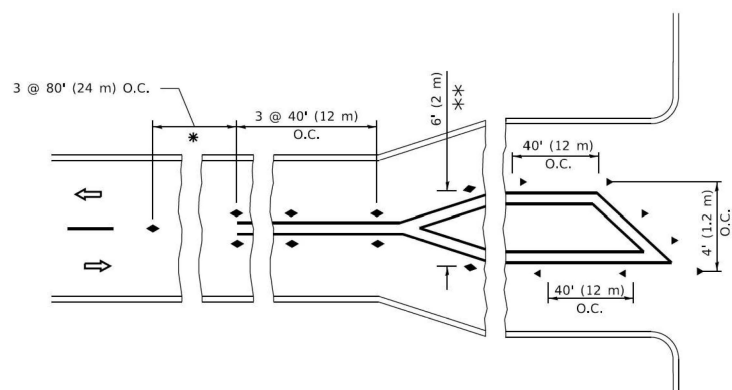
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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.

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.



TURN LANES

* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
 ** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

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

MODEL: STD-11 (TC-11) FILE NAME: p:\p\pawm\01.e-transys\corp\paw\Documents\Projects_2020\CH40\40120001@CAD02 - Sheets\21-Standards\21-Standards.dgn



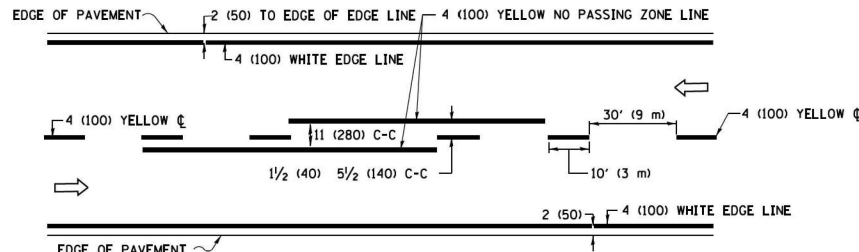
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PLOT DATE	2/3/2026	DATE	02/02/2026	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

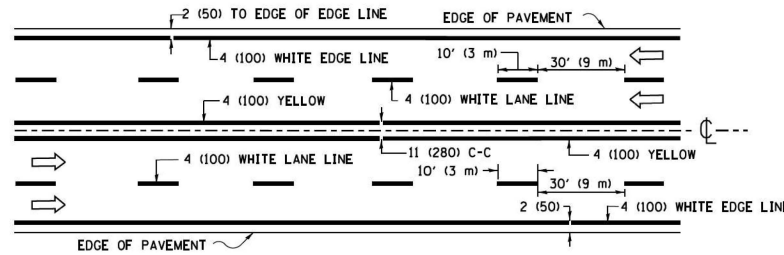
**TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT
MARKERS (SNOW-PLOW RESISTANT)**

SCALE: SHEET 11 OF 17 SHEETS STA. TO STA.

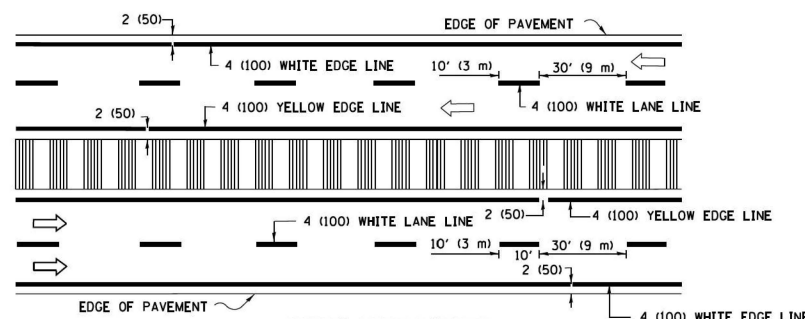
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	390
TC-10			CONTRACT NO. 62K33	
ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY

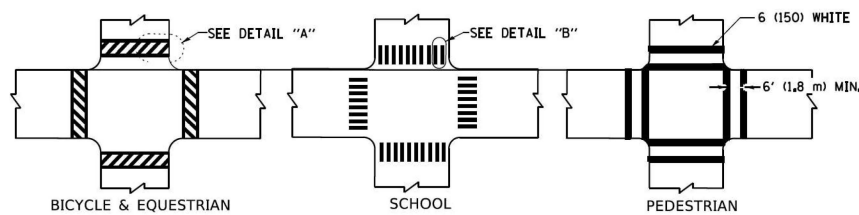


MULTI-LANE UNDIVIDED



MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

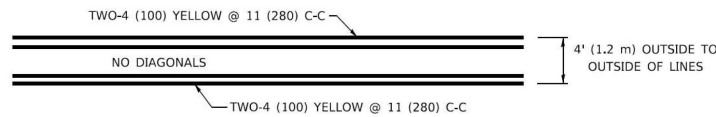


DETAIL "A"

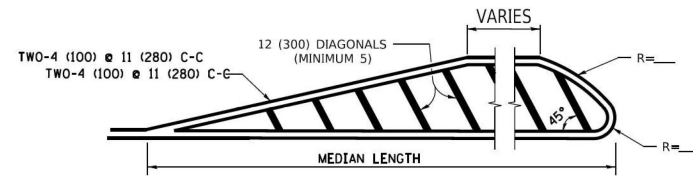
DETAIL "B"

TYPICAL CROSSWALK MARKING

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

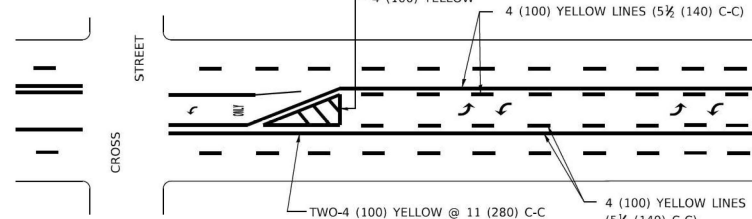


4' (1.2 m) WIDE MEDIANS ONLY



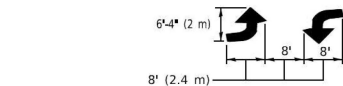
MEDIANS OVER 4' (1.2 m) WIDE

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))



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

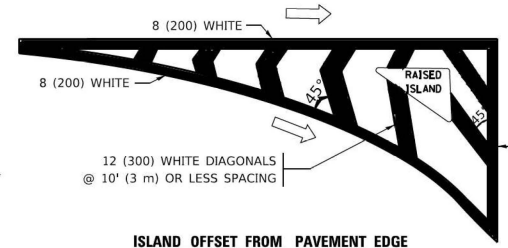
A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



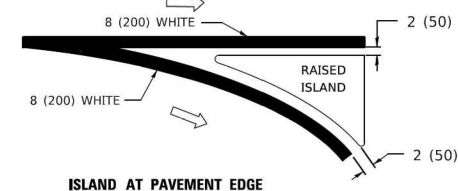
TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

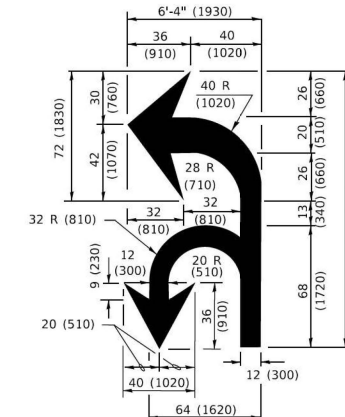


ISLAND OFFSET FROM PAVEMENT EDGE

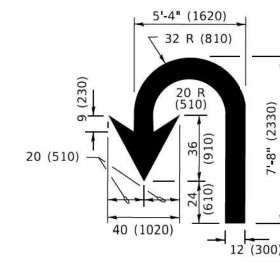


ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

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

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

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

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

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

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PLOT SCALE	= 39.99992000' / in.	DATE	= 02/02/2026	REVISED	=
PLOT DATE	= 2/3/2026				

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
TYPICAL PAVEMENT MARKINGS**

SCALE: SHEET 12 OF 17 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	391
TC-13		CONTRACT NO. 62K33		
		ILLINOIS FED. AID PROJECT		

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

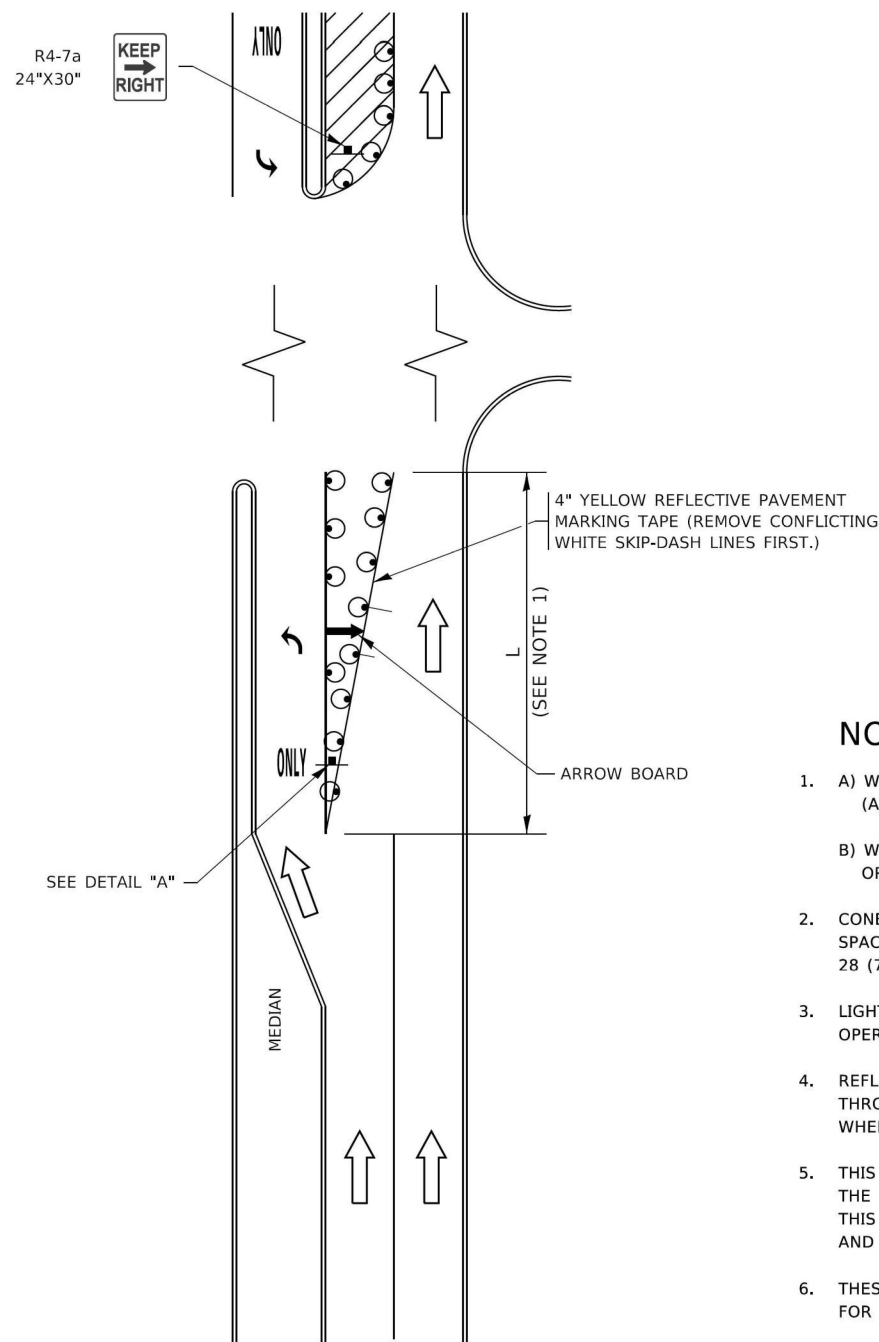


FIGURE 1

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

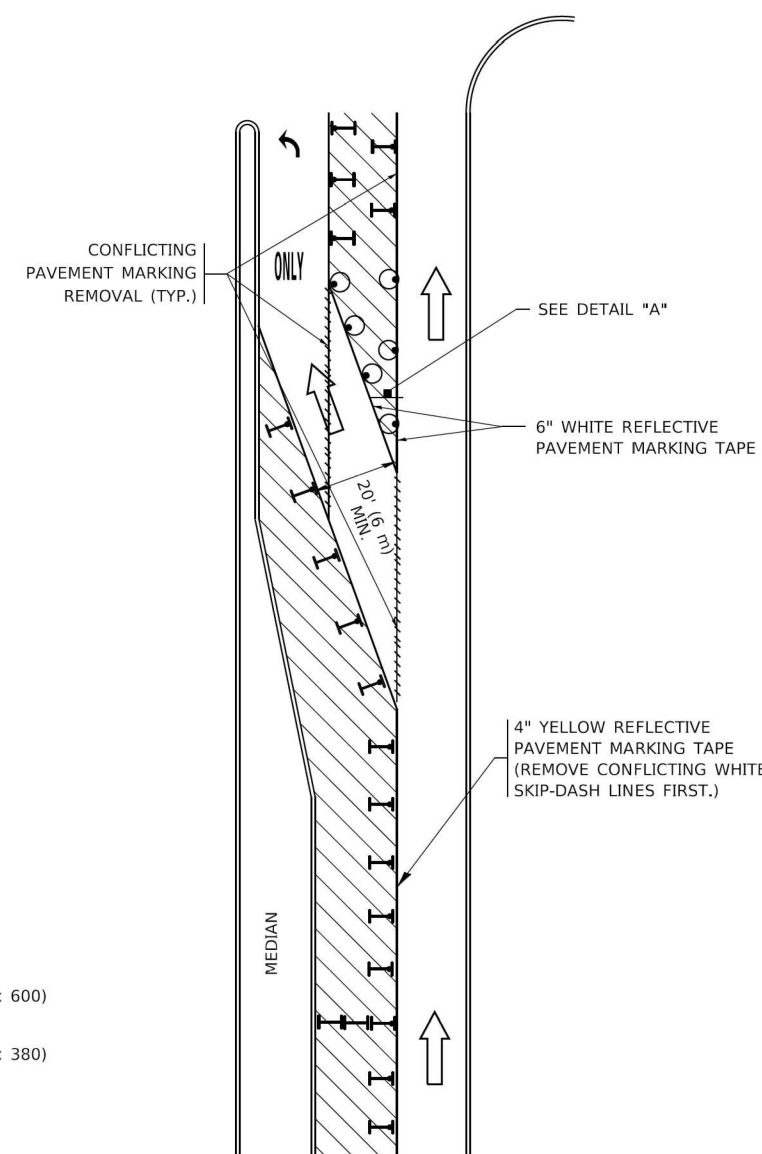


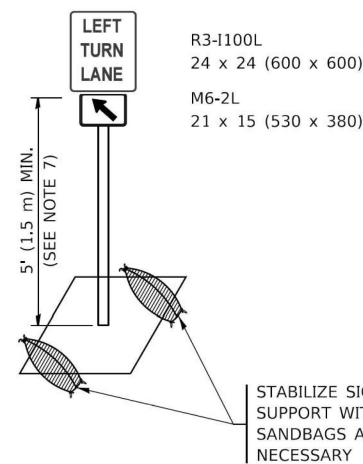
FIGURE 2

LEGEND

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

NOTES:

1. A) WHEN "L" IS ≤ THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
B) WHEN "L" IS > THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-I100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH REQUIREMENTS.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.



DETAIL A

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

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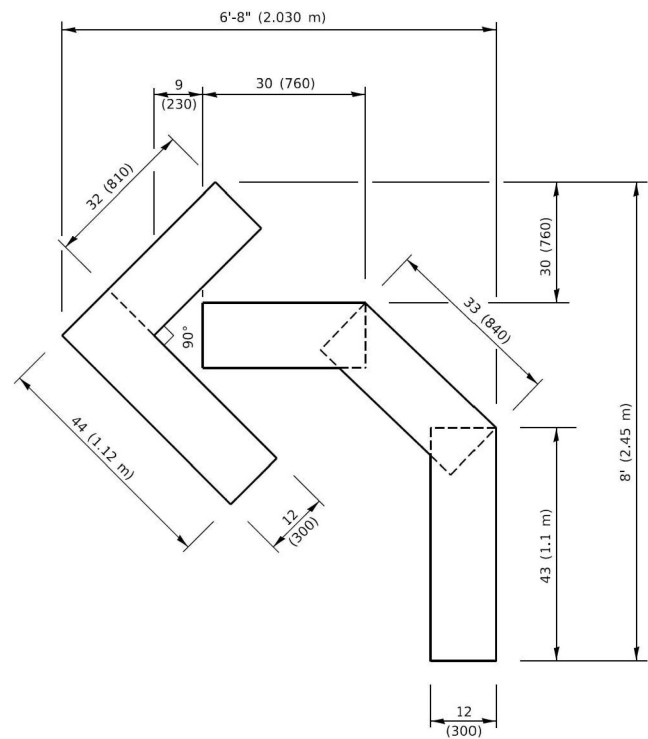
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

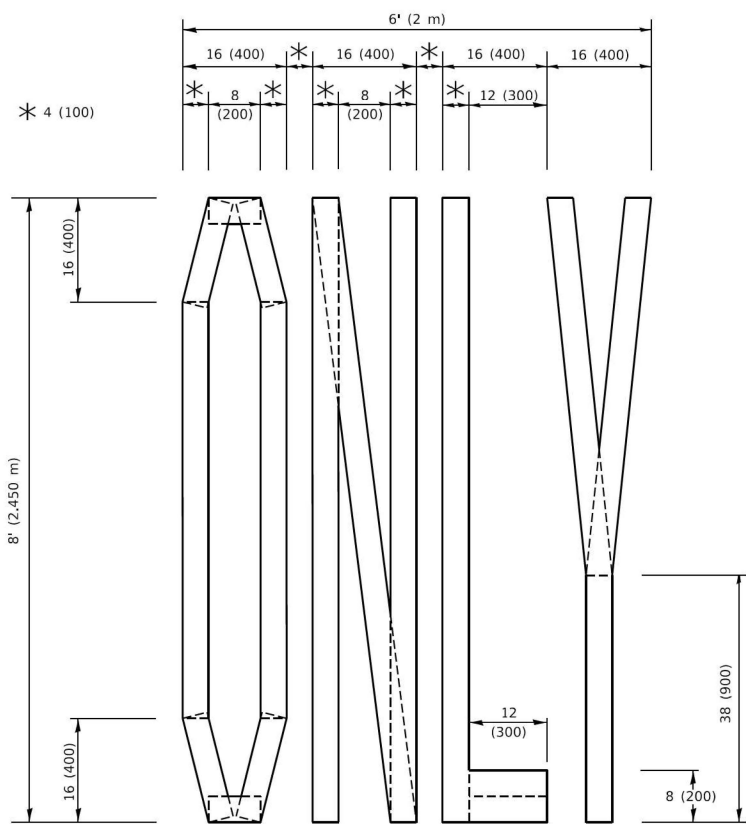
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	392
TC-13			CONTRACT NO. 62K33	
ILLINOIS FED. AID PROJECT				



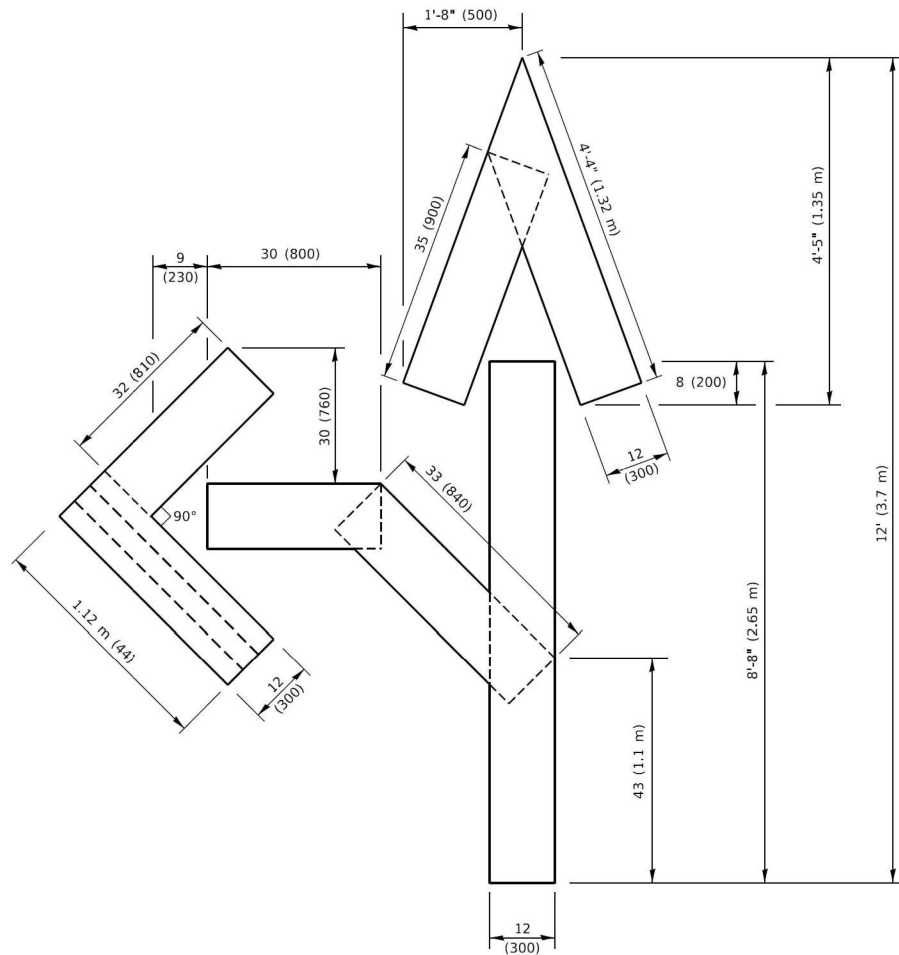
QUANTITY

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



QUANTITY

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

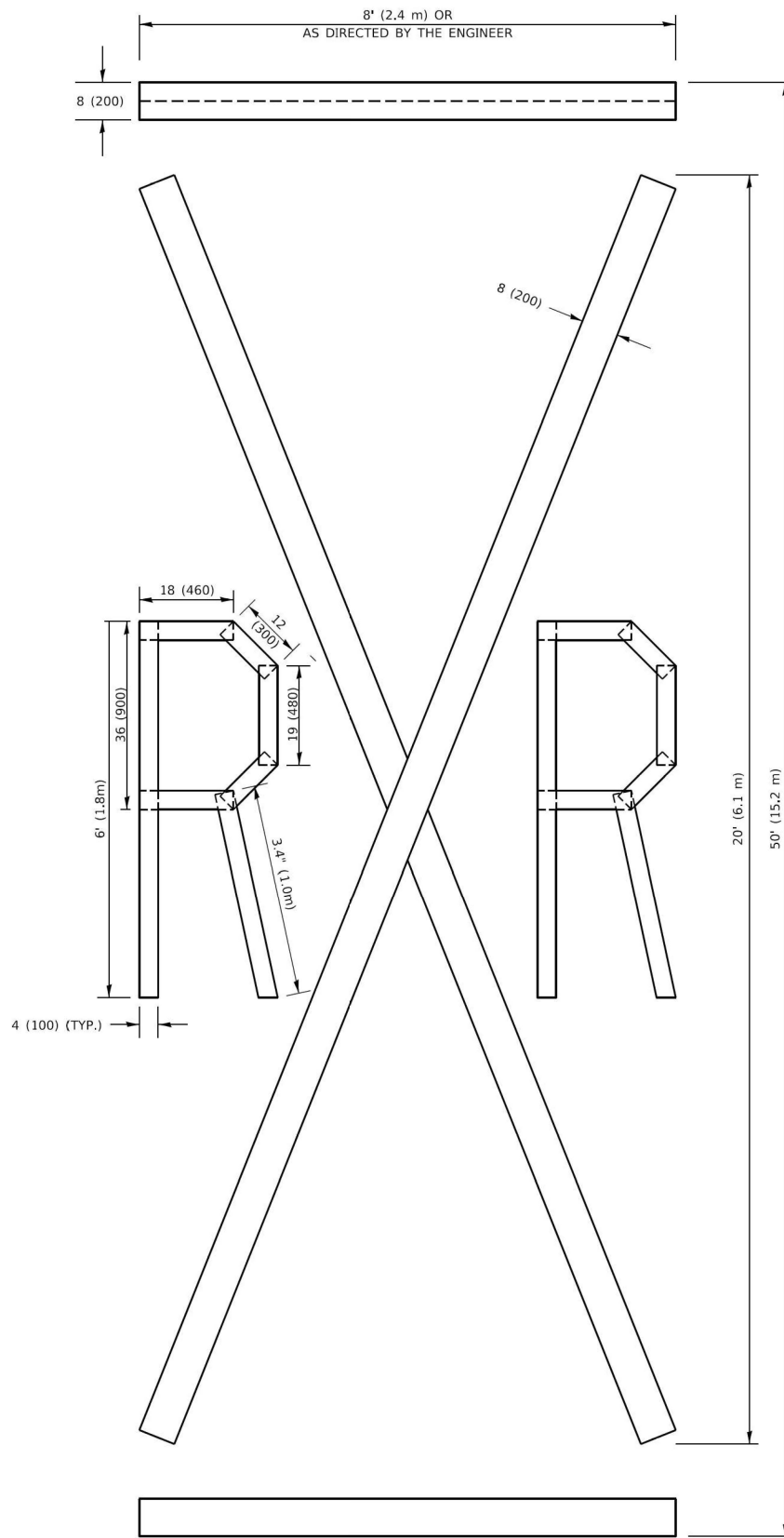


QUANTITY

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

NOTE:

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



QUANTITY

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

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

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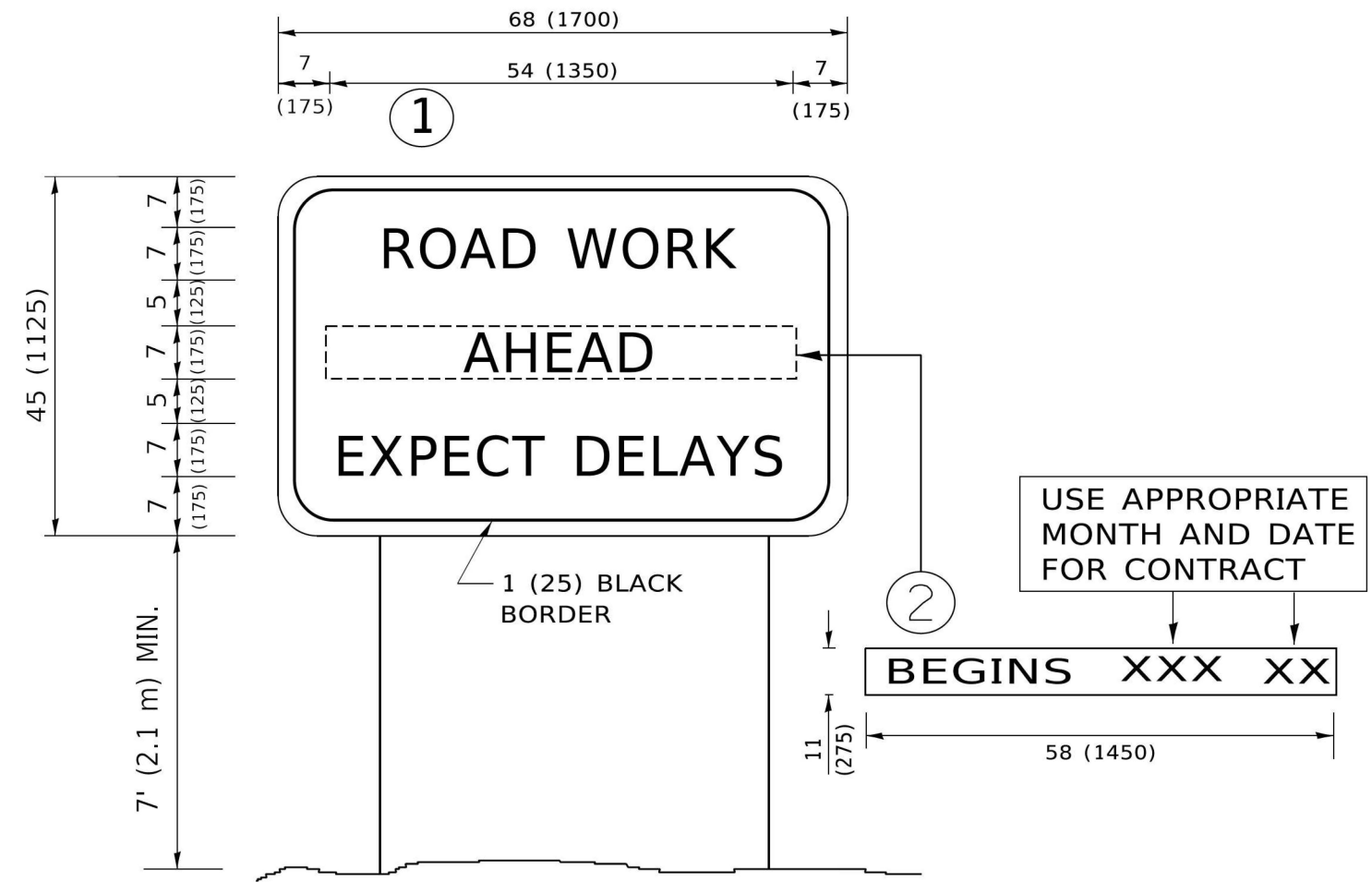
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PLOT DATE = 2/3/2026	CHECKED - \$CHECKED	REVISED -
	DATE - 02/02/2026	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SHORT-TERM PAVEMENT MARKING LETTERS AND SYMBOLS

SCALE: SHEET 14 OF 17 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	393
TC-16		CONTRACT NO. 62K33		
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.

MODEL: STD-15 (TC-22) FILE NAME: p:\p\p\p\m\01.e-transyscorp.com\transyscorp\p\Documents\Projects_2020\CAD\01401200010\CAD02 - Sheets\F1-Standards\DI02K33-SHT-FDOT-Standards.dgn



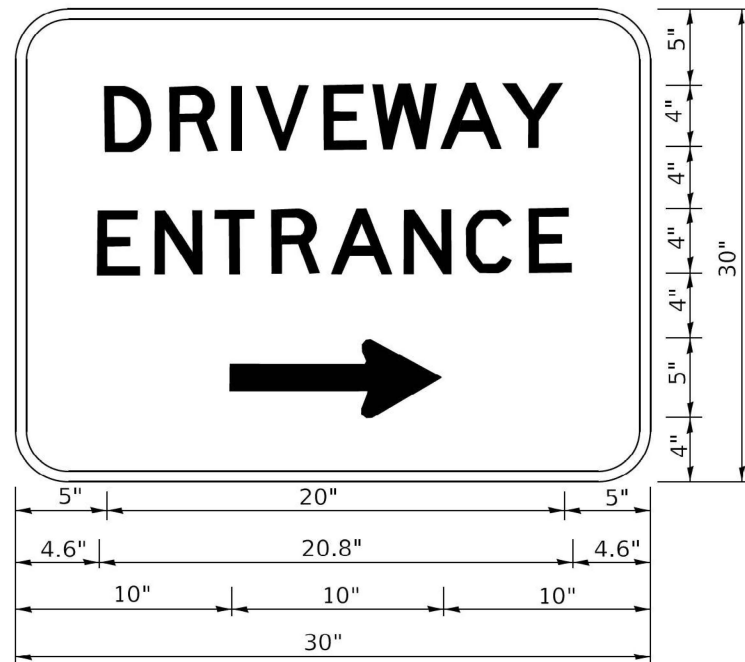
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PLOT DATE = 2/3/2026		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ARTERIAL ROAD INFORMATION SIGN

SCALE: SHEET 15 OF 17 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	394
TC-22		CONTRACT NO. 62K33		
ILLINOIS FED. AID PROJECT				



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

NOTES:

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

MODEL: STD-16 (TC-26)
 FILE NAME: P:\projects\mtd1_p-e-transyscorp.com\transyscorp\pwl\Documents\Projects_2020\CH401\01200018\CAD\02 - Sheets\21-Standards\DI162633-SHT-1601-Standard.dgn



USER NAME = MatthewToussaint	DESIGNED - \$DESIGNED	REVISED -
	DRAWN - \$DRAWN	REVISED -
PLOT SCALE = 0.16666633 1/16"	CHECKED - \$CHECKED	REVISED -
PLOT DATE = 2/3/2026	DATE - 02/02/2026	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DRIVEWAY ENTRANCE SIGNING

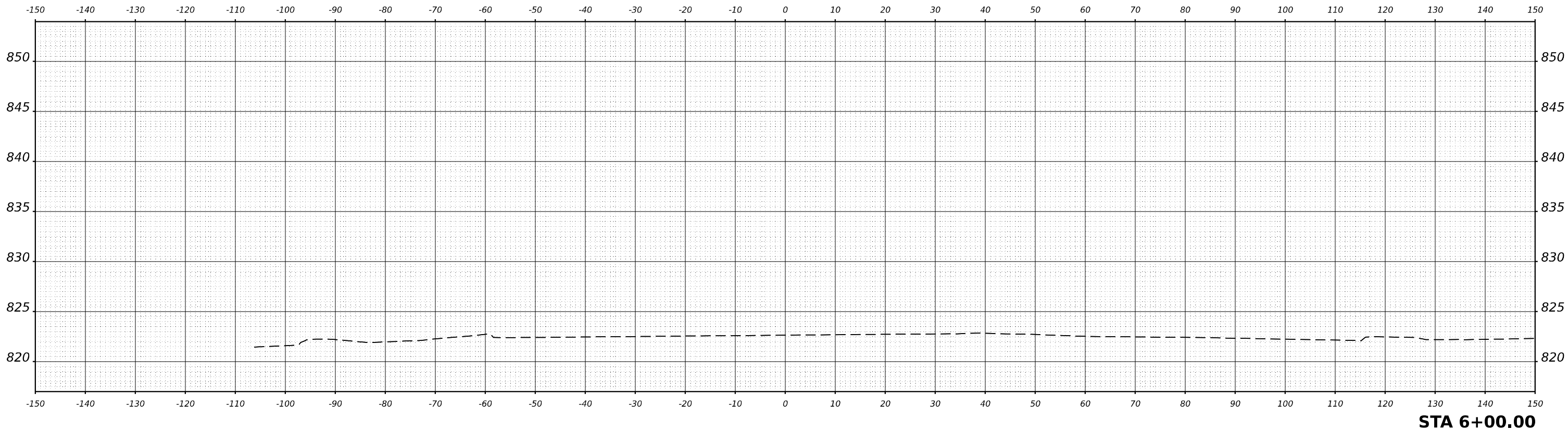
SCALE: SHEET 16 OF 17 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	395
TC-26		CONTRACT NO. 62K33		
ILLINOIS FED. AID PROJECT				

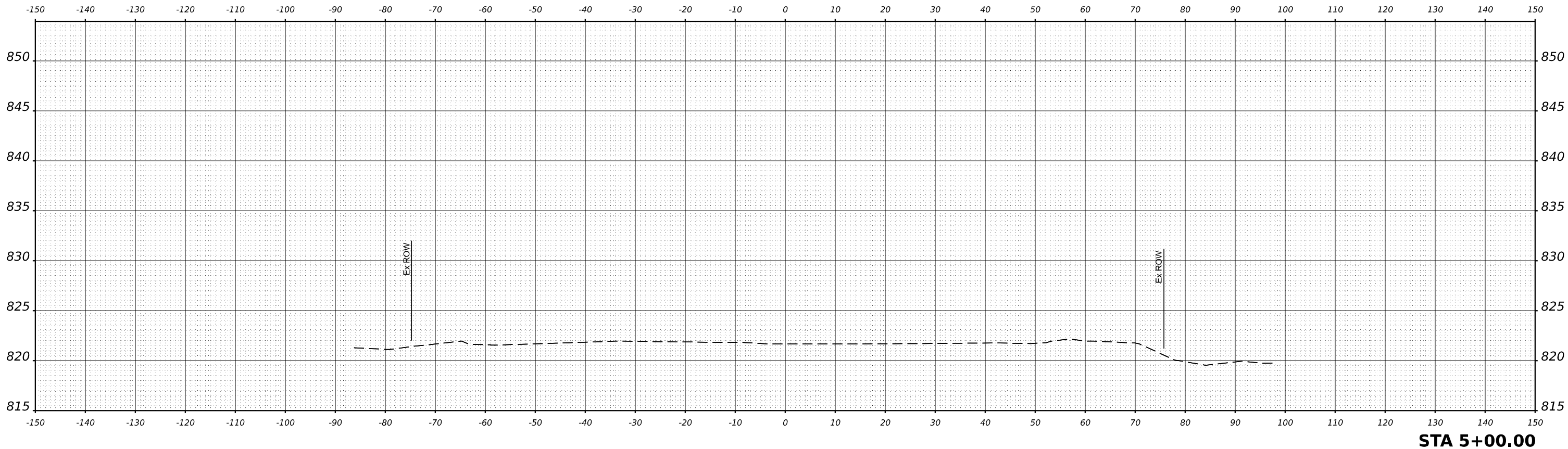
NOTES

1. PROPOSED DRAINAGE ELEMENTS AS SHOWN IN CROSS SECTIONS ARE NOT SHOWN CONSTRUCTED IN THE CORRECT STAGE.
PROPOSED DRAINAGE ELEMENTS SHOWN IN CROSS SECTION ARE ONLY REPRESENTATIVE OF THE FINAL CONDITION.
2. CROSS SECTIONS AT INTERSECTIONS, DRIVEWAYS, AND CULVETS CAN BE FOUND AT THE END OF EACH STAGE GROUPING.

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



MODEL \$MODELNAME\$
FILE NAME \$FILES\$



USER NAME = \$USERS	DESIGNED - MKW	REVISED -
PLOT SCALE = \$SCALE\$	DRAWN - DWH	REVISED -
PLOT DATE = \$DATES	CHECKED - MKW	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

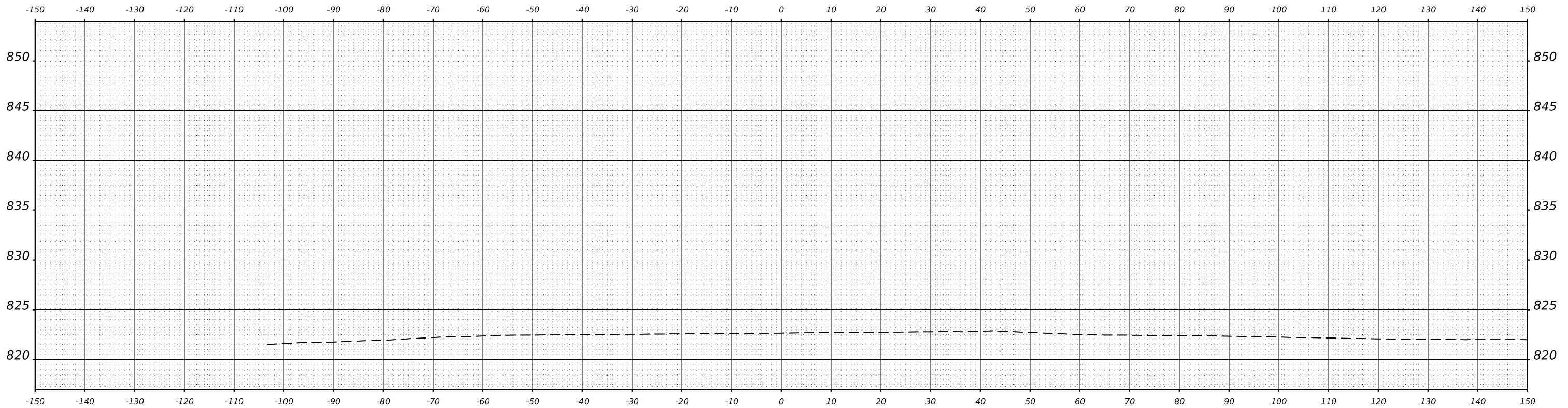
**BARRINGTON ROAD
CROSS SECTIONS - PRE-STAGE**

SCALE: 10H : 5V SHEET 1 OF 54 SHEETS STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	397
CONTRACT NO. 62K33			ILLINOIS FED. AID PROJECT	

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

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



STA 6+07.83



USER NAME = \$USERS	DESIGNED - MKW	REVISED -
	DRAWN - DWH	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - MKW	REVISED -
PLOT DATE = \$DATES	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

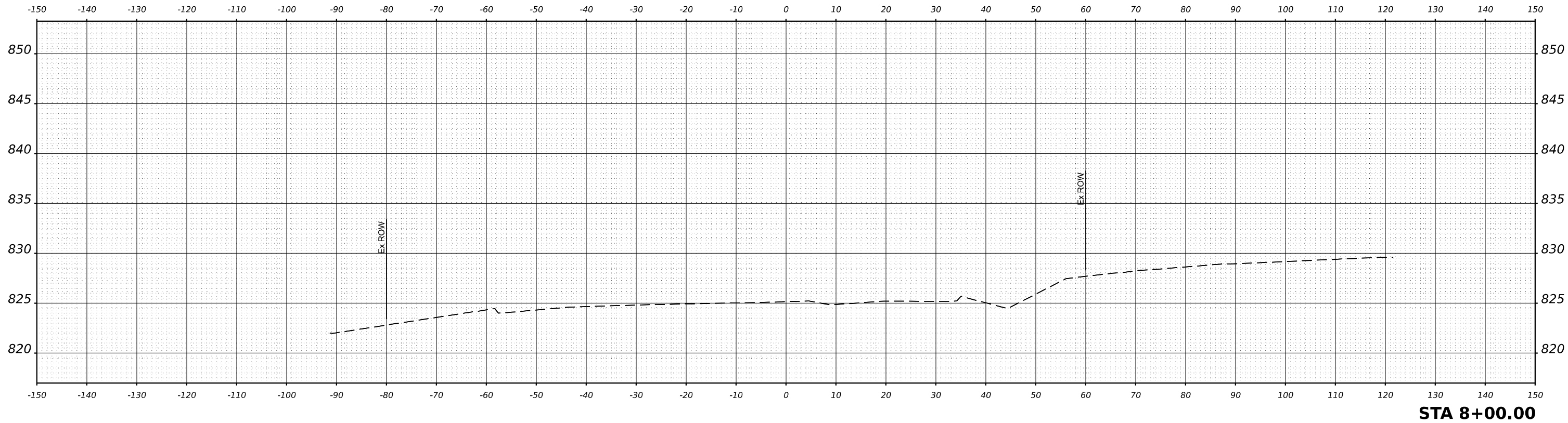
**BARRINGTON ROAD
CROSS SECTIONS - PRE-STAGE**

SCALE: 10H : 5V SHEET 2 OF 54 SHEETS STA.

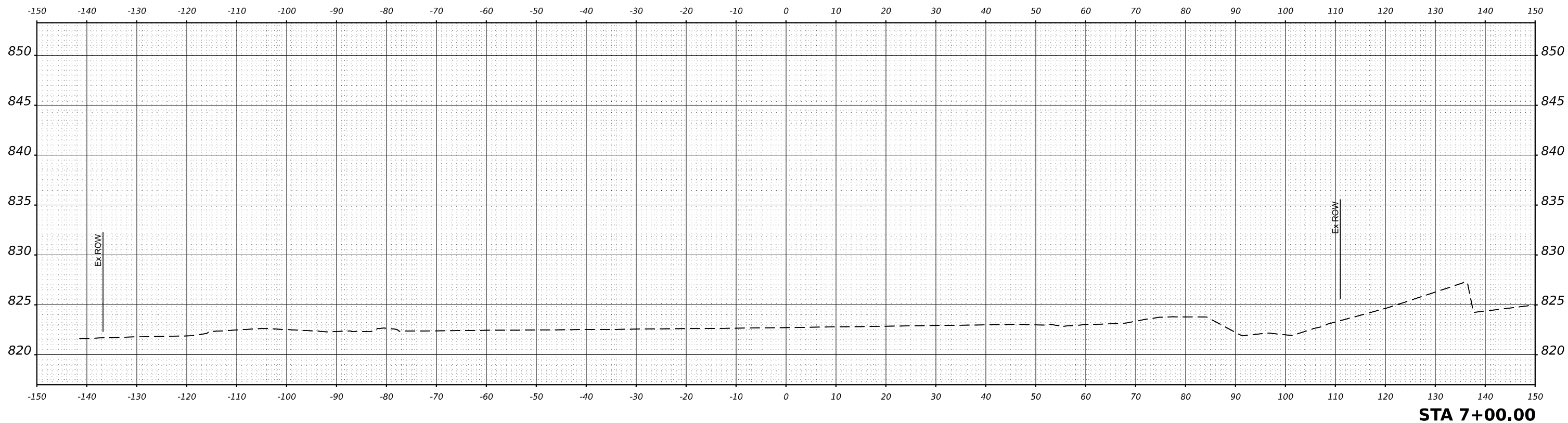
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	398
CONTRACT NO. 62K33				
ILLINOIS		FED. AID PROJECT		

MODEL \$MODELNAME\$
FILE NAME \$FILES\$

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



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



MODEL: \$MODELNAME\$
FILE NAME: \$FILES\$



USER NAME = \$USERS	DESIGNED - MKW	REVISED -
	DRAWN - DWH	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - MKW	REVISED -
PLOT DATE = \$DATES	DATE -	REVISED -

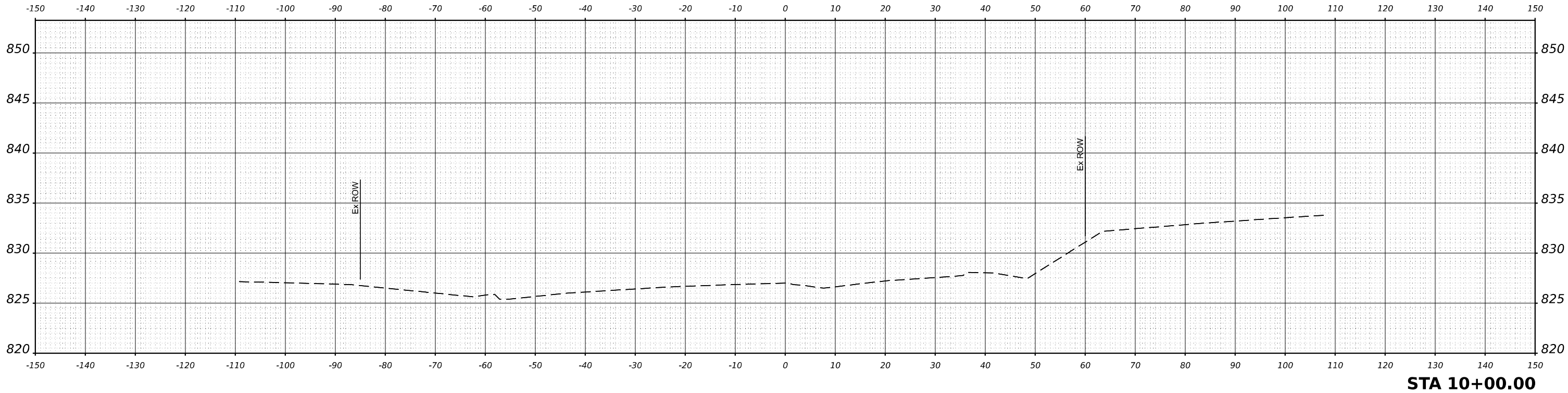
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BARRINGTON ROAD
CROSS SECTIONS - PRE-STAGE**

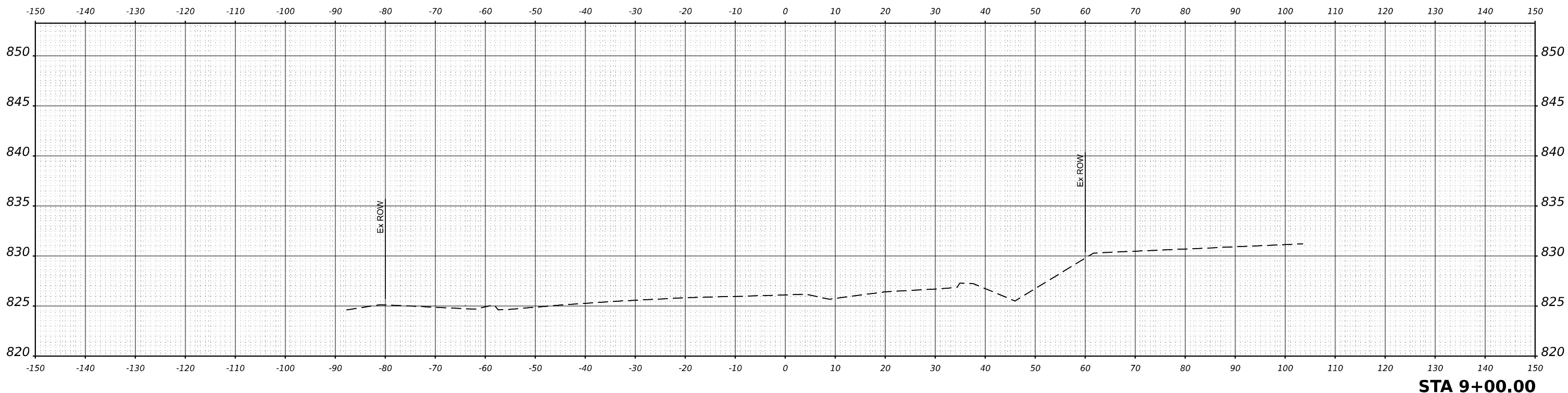
SCALE: 10H : 5V SHEET 3 OF 54 SHEETS STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	399
CONTRACT NO. 62K33				
		ILLINOIS	FED. AID PROJECT	

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



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



MODEL \$MODELNAME\$
FILE NAME \$FILES\$



USER NAME = \$USERS	DESIGNED - MKW	REVISED -
	DRAWN - DWH	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - MKW	REVISED -
PLOT DATE = \$DATES	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BARRINGTON ROAD
CROSS SECTIONS - PRE-STAGE

SCALE: 10H : 5V SHEET 4 OF 54 SHEETS STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
362	2019-161-W	COOK	666	400
			CONTRACT NO. 62K33	
		ILLINOIS	FED. AID PROJECT	