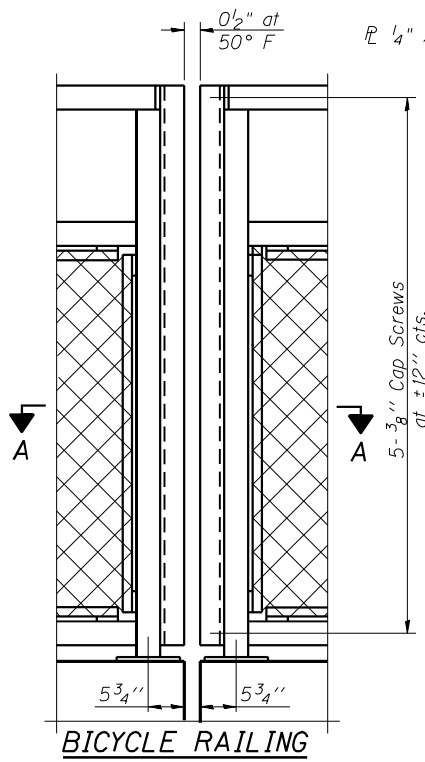
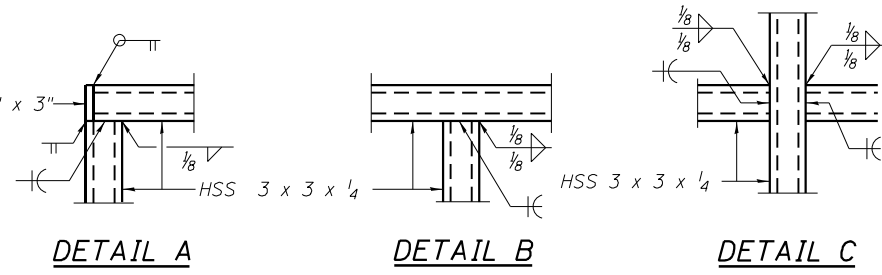


BICYCLE RAILING

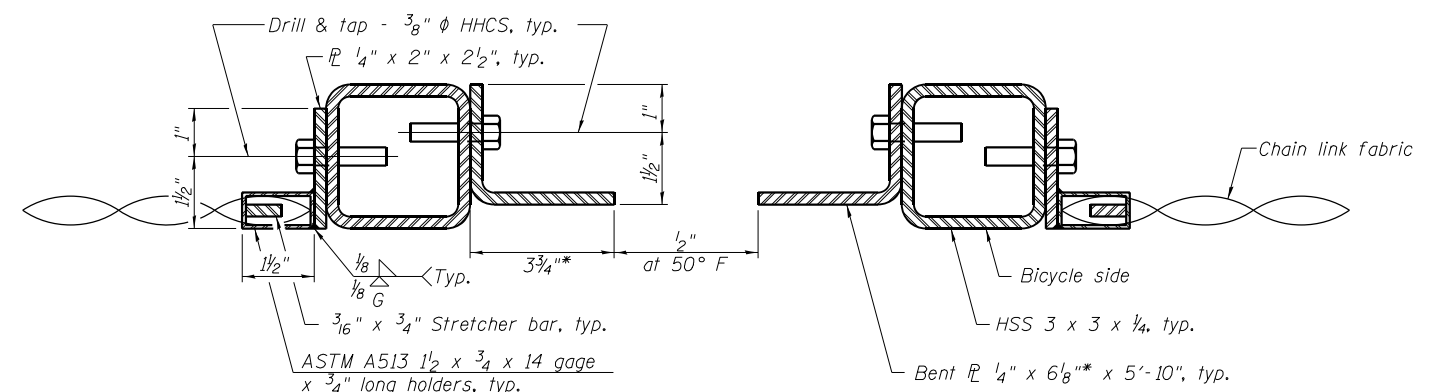


BICYCLE RAILING



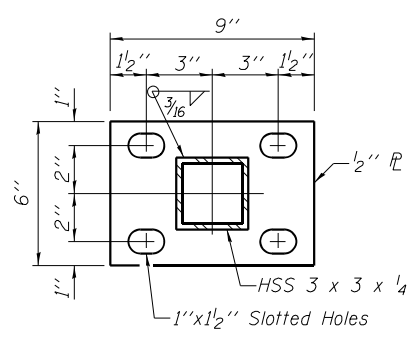
DETAIL A DETAIL B DETAIL C

All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

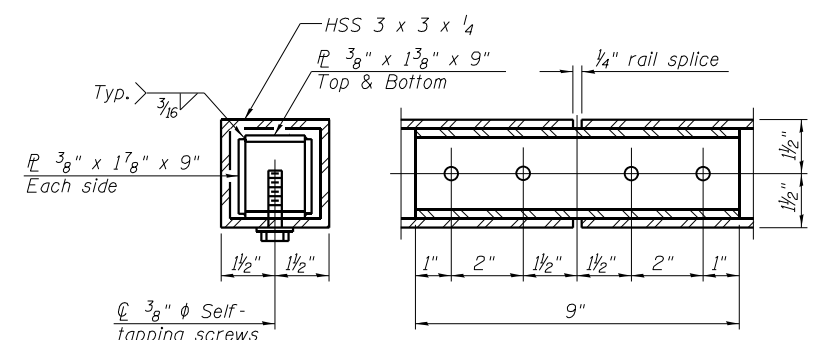


SECTION A-A

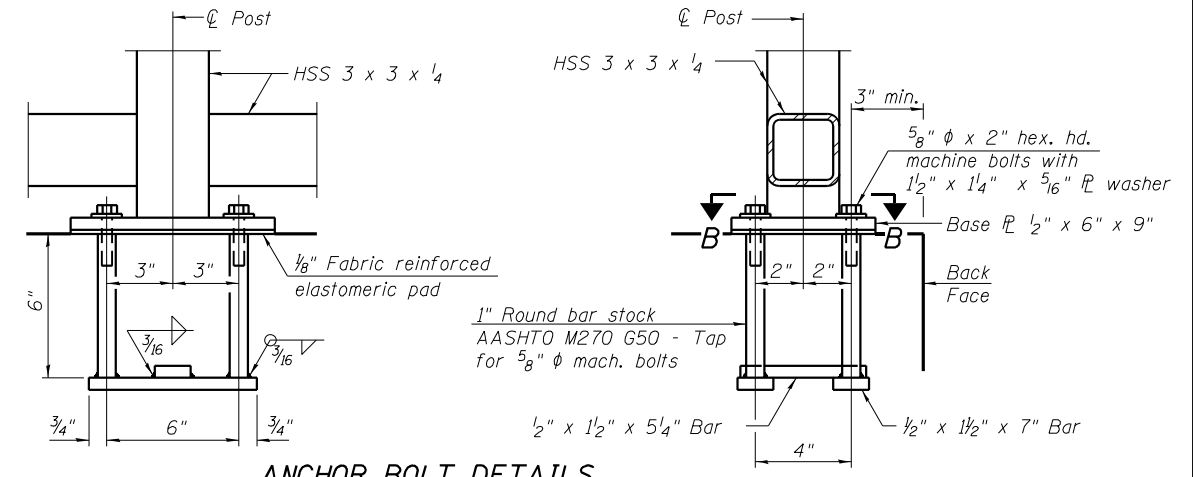
* Assume 3/8" radius. Dimensions may need to be modified for larger joints to avoid gaps greater than 6".



SECTION B-B



RAIL SPLICE



ANCHOR BOLT DETAILS

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

BILL OF MATERIAL

Item	Unit	Quantity
Bicycle Railing	Foot	385

FILE NAME = X:\P\113-2838-000 Road Road\CAD\AS\CA00 Sheets\0162019-60\10-005-BikeRail.dgn



USER NAME = Etwiloe	DESIGNED - TLR 05-15-2014	REVISED
PLOT DATE = 3/18/2024	CHECKED - LM 05-27-2014	REVISED
	DRAWN - OR 12-01-2023	REVISED
	CHECKED - JIK 01-05-2024	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BICYCLE RAILING
STRUCTURE NO. 016-2019**

SHEET NO. 5 OF 8 SHEETS

F.A.U. RTE. 3523	SECTION 120Y-B	COUNTY COOK	TOTAL SHEETS 267	SHEET NO. 201
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				



BORING LOG RW-05

Page 1 of 1

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

Client **Illinois Department of Transportation**
Project **MSE Retaining Walls - Rand Road**
Location **Des Plaines, Illinois**

Datum: NGVD
Elevation: 633.34 ft
North: 1959062.70 ft
East: 1107958.96 ft
Station: 246+68.11
Offset: 25.74 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
632.3	12-inch thick ASPHALT --PAVEMENT--												
631.8	6-inch thick, brown SANDY GRAVEL --BASE COURSE--		1	10 8 4	1.50 P	14	605.8	Very dense, gray SILTY LOAM		11	6 11 18	3.69 B	17
	Stiff to very stiff, brown and gray SILTY CLAY LOAM, trace wood fragments --FILL--		2	2 2 3	2.00 P	17				12	19 32 40	NP	16
627.8	Soft to stiff, brown SILTY CLAY, trace gravel and organic matter		3	2 2 2	0.75 P	15	601.8	Very stiff, gray SILTY CLAY, trace gravel		13	10 9 12	3.94 B	16
			4	2 2 3	1.25 P	34				14	11 19 23	6.89 B	9
			5	2 3 3	0.33 B	34	596.3	Hard, gray SILTY LOAM to SILTY CLAY LOAM, trace gravel		14			
			6	1 2 1	0.49 B	26	593.3	Boring terminated at 40.00 ft		14			
	--WET--		7	0 0 0	0.33 B	26				14			
615.3	Loose, gray SANDY LOAM, trace gravel and organic material		8	1 4 2	NP	37				14			
613.6	Loose, brown, coarse SAND		9	4 5 6	1.89 B	18				14			
611.8	Stiff to very stiff, gray SILTY CLAY, trace gravel and silt seams		10	3 7 12	2.87 B	17				14			

GENERAL NOTES

Begin Drilling **06-19-2013** Complete Drilling **06-19-2013**
 Drilling Contractor **Wang Testing Service** Drill Rig **TMR, CME-55**
 Driller **R & J** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **2.5 ft interval to 30 ft, 5ft interval to 40 ft**

WATER LEVEL DATA

While Drilling **15.50 ft**
 At Completion of Drilling **15.50 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.



BORING LOG RW-06

Page 1 of 1

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

Client **Illinois Department of Transportation**
Project **MSE Retaining Walls - Rand Road**
Location **Des Plaines, Illinois**

Datum: NGVD
Elevation: 632.17 ft
North: 1959022.39 ft
East: 1108016.06 ft
Station: 247+40.01
Offset: 29.09 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
631.2	12-inch thick ASPHALT --PAVEMENT--												
630.8	4-inch thick, brown SANDY GRAVEL --BASE COURSE--		1	7 6 5	NP	15				11	12 12 16	3.85 S	13
629.2	Medium dense, brown SILTY LOAM, trace gravel --FILL--		2	2 1 2	2.25 P	20				12	8 10 15	4.50 P	15
	Very stiff, brown and gray SILTY CLAY LOAM, trace gravel --FILL--		3	0 3 7	1.25 P	19				13	11 13 16	2.25 P	16
626.7	Medium stiff to stiff, gray SILTY CLAY LOAM, trace gravel and organic matter		4	2 2 2	0.50 P	26				13			
	--L _L (%)=57, P _L (%)=25-- --%Gravel=2.1-- --%Sand=16.7--10 --%Silt=60.5-- --%Clay=20.6-- --A-7-6 (28)--		5	0 0 0	NP	24				14	18 15 24	6.97 B	15
621.7	Very loose, brown LOAM, trace gravel --WET-- --%Gravel=0.8-- --%Sand=32.6-- --%Silt=47.9-- --%Clay=18.7-- --A-4 (0)--		6	0 1 1	NP	23				14			
616.7	Brown GRAVELLY SAND		7	2 5 11	NP	23	592.2	Boring terminated at 40.00 ft		14			
615.2	Medium dense, gray SILTY LOAM, some gravel		8	10 10 12	NP	17				14			
611.7	Stiff to hard, gray SILTY CLAY, trace to little gravel		9	6 5 7	1.50 P	16				14			
			10	5 7 11	4.26 B	15				14			

GENERAL NOTES

Begin Drilling **06-19-2013** Complete Drilling **06-19-2013**
 Drilling Contractor **Wang Testing Service** Drill Rig **TMR, CME-55**
 Driller **R & J** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **2.5 ft interval to 30 ft, 5ft interval to 40 ft**

WATER LEVEL DATA

While Drilling **10.50 ft**
 At Completion of Drilling **NA**
 Time After Drilling **NA**
 Depth to Water **NA**

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

FILE NAME = X:\P\13-2838-000 Rand Road\CAD\AS\CA00 Sheets\0162019-60\10-006-BoringLog06.dgn



USER NAME = Etw10e
PLOT DATE = 3/18/2024

DESIGNED - TLR 05-15-2014
 CHECKED - LM 05-27-2014
 DRAWN - JIK 05-27-2014
 CHECKED - LM 05-28-2014

REVISED
 REVISED
 REVISED
 REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS (1 OF 3)
STRUCTURE NO. 016-2019

SHEET NO. 6 OF 8 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120Y-B	COOK	267	202
CONTRACT NO. 60J10				

ILLINOIS FED. AID PROJECT



BORING LOG RW-07

Page 1 of 1

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

Client **Illinois Department of Transportation**
Project **MSE Retaining Walls - Rand Road**
Location **Des Plaines, Illinois**

Datum: NGVD
Elevation: 631.08 ft
North: 1958971.13 ft
East: 1108080.64 ft
Station: 248+25.16
Offset: 30.87 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample No. recovery	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample No. recovery	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
630.1	12-inch thick ASPHALT --PAVEMENT--							605.6	Dense to very dense, gray SILTY LOAM						
629.9	2-inch thick, brown SANDY GRAVEL --BASE COURSE--		1	1	11 5 4	1.25 P	14		--WET--		11	11	18 18 28	NP	22
	Soft to stiff, brown SILTY CLAY LOAM, trace to little gravel --FILL--		2	1	1 1 1	0.25 P	14				12	12	23 31 33	NP	16
625.6	Soft to medium stiff, brown SILTY CLAY, trace organic matter		3	1	2 2	0.50 P	35	599.3	Hard, gray SILTY CLAY, trace gravel						
621.8	Very loose to loose, brown SANDY LOAM, trace to some gravel --WET--		4	1	1 1 1	0.25 B	26				13	13	5 9 17	5.49 B	14
			5	1	1 1 1	NP	24				14	14	10 12 15	7.30 B	12
615.6	Medium stiff to very stiff, gray SILTY CLAY, trace gravel		7	4	4 4 4	0.82 B	13		Boring terminated at 40.00 ft						
			8	2	6 9	1.31 B	12								
			9	4	6 8	1.72 B	16								
			10	5	7 12	3.61 B	18								

GENERAL NOTES

Begin Drilling **06-20-2013** Complete Drilling **06-20-2013**
 Drilling Contractor **Wang Testing Service** Drill Rig **TMR, CME-55**
 Driller **R & J** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **2.5 ft interval to 30 ft, 5ft interval to 40 ft**

WATER LEVEL DATA

While Drilling ∇ **9.25 ft**
 At Completion of Drilling ∇ **10.00 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.



BORING LOG RW-08

Page 1 of 1

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

Client **Illinois Department of Transportation**
Project **MSE Retaining Walls - Rand Road**
Location **Des Plaines, Illinois**

Datum: NGVD
Elevation: 629.89 ft
North: 1958928.16 ft
East: 1108133.65 ft
Station: 248+95.49
Offset: 27.46 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample No. recovery	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample No. recovery	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
628.9	12-inch thick ASPHALT --PAVEMENT--							604.4	Very dense, gray SILTY LOAM						
628.7	3-inch thick, brown SANDY GRAVEL --BASE COURSE--		1	6	6 6 4	1.00 P	12		--WET--		11	11	30 50/5	NP	16
	Medium stiff to stiff, brown SILTY CLAY LOAM, some to little gravel --FILL--		2	1	2 2	0.50 P	15				12	12	30 38 42	NP	16
624.4	Medium stiff to stiff, brown SILTY CLAY, trace organic material with roots		3	1	2 3	0.50 P	31	598.1	Very stiff to hard, gray SILTY CLAY, trace gravel						
			4	2	2 1	1.15 B	28				13	13	5 5 12	3.28 B	16
618.4	Very loose, brown SANDY LOAM		5	1	1 1 1	NP	26				14	14	10 18 22	6.23 B	17
616.9	Brown, coarse SAND, trace gravel --WET--		6	2	5 12	NP	22								
616.1	Medium dense, gray SILTY LOAM		7	2	3 7	1.64 B	19		Boring terminated at 40.00 ft						
614.4	Stiff to hard, gray SILTY CLAY, trace gravel		8	2	4 6	1.56 B	18								
			9	5	9 12	4.76 B	16								
			10	6	9 24	4.02 B	19								

GENERAL NOTES

Begin Drilling **06-20-2013** Complete Drilling **06-20-2013**
 Drilling Contractor **Wang Testing Service** Drill Rig **TMR, CME-55**
 Driller **R & J** Logger **D. Kolpacki** Checked by **C. Marin**
 Drilling Method **2.5 ft interval to 30 ft, 5ft interval to 40 ft**

WATER LEVEL DATA

While Drilling ∇ **11.50 ft**
 At Completion of Drilling ∇ **12.00 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.

FILE NAME = X:\P\13-2838-080 Rand Road\CAD\AS\CA00 Sheets\0162019-60\10-007-BoringLogRW02.dgn



USER NAME = Etzwiloe	DESIGNED - TLR 05-15-2014	REVISED
PLOT DATE = 3/18/2024	CHECKED - LM 05-27-2014	REVISED
	DRAWN - JIK 05-27-2014	REVISED
	CHECKED - LM 05-28-2014	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS (2 OF 3)
STRUCTURE NO. 016-2019

SHEET NO. 7 OF 8 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120Y-B	COOK	267	203
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				



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

BORING LOG RW-09

WEI Job No.: 555-15-03

Client **Illinois Department of Transportation**
 Project **MSE Retaining Walls - Rand Road**
 Location **Des Plaines, Illinois**

Datum: NGVD
 Elevation: 629.83 ft
 North: 1958859.39 ft
 East: 1108190.86 ft
 Station: 249+87.75
 Offset: 32.85 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
	629.1	8-inch thick, brown SILTY CLAY --TOPSOIL--								604.3	Dense, gray SILTY LOAM						
		Stiff, brown SILTY CLAY LOAM, trace gravel and roots --FILL--	1	X	1	2 2 2	1.23 B	14				11	X	13 20 23	NP	20	
			2	X	2	1 2 2	1.23 P	14				12	X	15 18 19	NP	15	
	624.3	Stiff, brown SILTY CLAY	5	X	3	1 2 4	1.00 P	22		598.1	Hard, gray SILTY CLAY, trace gravel						
			10	X	4	1 2 1	NP	23				13	X	6 10 12	4.18 B	15	
	620.8	Very loose to medium dense, brown SANDY LOAM, trace gravel and roots --WET--	15	X	5	2 4 6	NP	25				14	X	10 15 21	7.63 B	15	
	616.8	Medium dense, brown, coarse SAND, some gravel	20	X	6	4 3 7	NP	8		589.8	Boring terminated at 40.00 ft	40	X				
	614.3	Medium dense, gray SILTY LOAM, trace gravel	25	X	7	7 10 12	NP	12									
				X	8	8 12 10	NP	15									
	609.3	Very stiff to hard, gray SILTY CLAY, trace gravel		X	9	6 6 9	2.87 B	16									
				X	10	6 11 14	4.18 B	19									

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	06-20-2013	Complete Drilling	06-20-2013	While Drilling	▽	9.00 ft	
Drilling Contractor	Wang Testing Service	Drill Rig	TMR, CME-55	At Completion of Drilling	▽	9.00 ft	
Driller	R & J	Logger	D. Kolpacki	Time After Drilling		NA	
Checked by	C. Marin			Depth to Water	▽	NA	
Drilling Method	2.5 ft interval to 30 ft, 5ft interval to 40 ft			The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			

WANGENGINC 5551503.GPJ WANGENG.GDT 7/16/13

FILE NAME = X:\P\113-2838-000 Rand Road\CAD\AS\CA00 Sheets\0162019-60\10-008-BoringLog03.dgn



USER NAME =	Etzwi1eE	DESIGNED -	TLR	05-15-2014	REVISED
PLOT DATE =	3/18/2024	CHECKED -	LM	05-27-2014	REVISED
		DRAWN -	JK	05-27-2014	REVISED
		CHECKED -	LM	05-28-2014	REVISED

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BORING LOGS (3 OF 3)
 STRUCTURE NO. 016-2019**

SHEET NO. 8 OF 8 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120Y-B	COOK	267	204
CONTRACT NO. 60J10				

Benchmark: BM-92 Chiseled square on sidewalk at S.W. corner of S.N. 016-0362, Elev. 635.39.

Existing Structure: None.

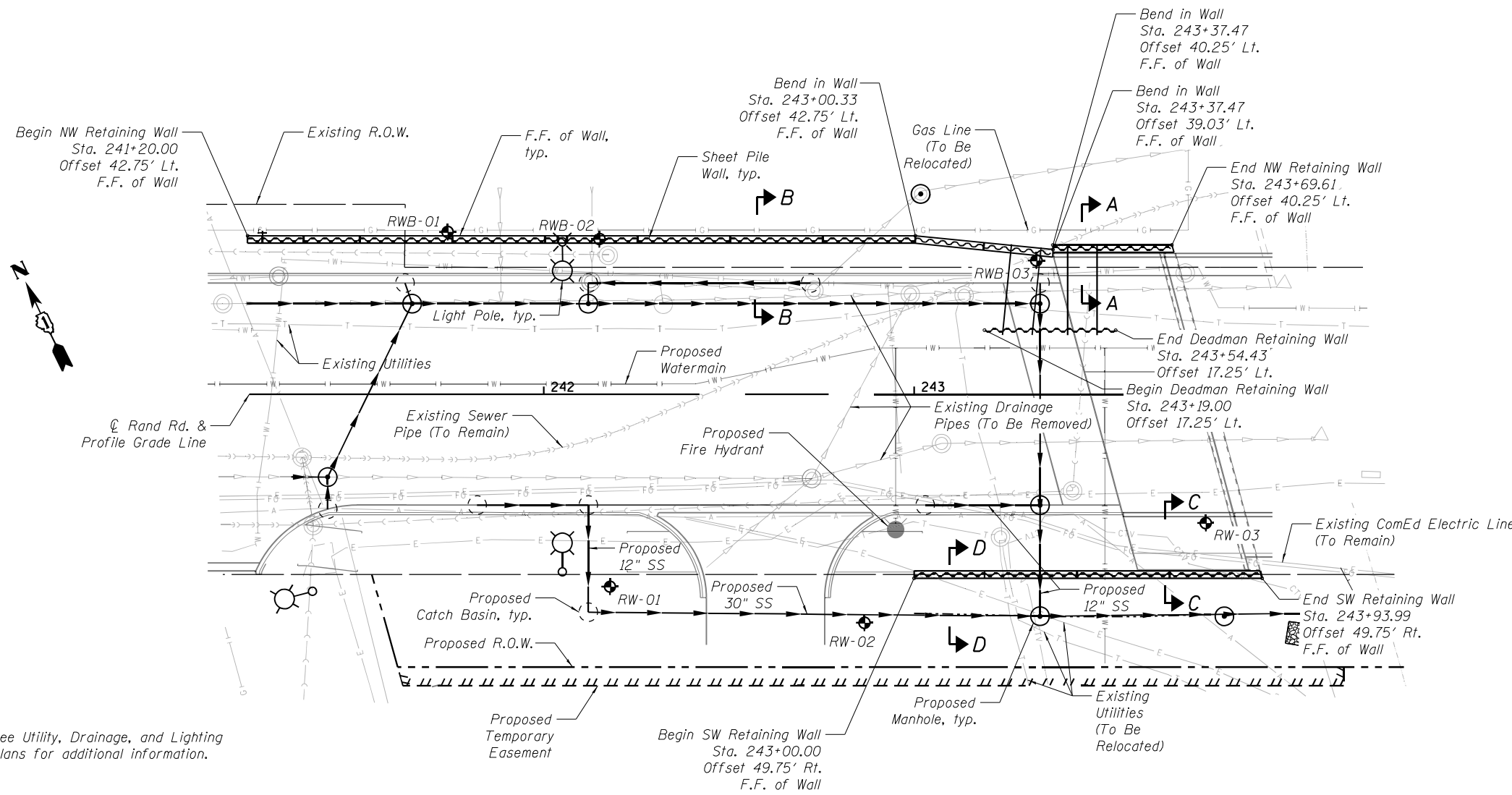
INDEX OF SHEETS

- 1 - General Plan
- 2 - Elevations
- 3 - Sheet Pile & Cap Details (1 of 4)
- 4 - Sheet Pile & Cap Details (2 of 4)
- 5 - Sheet Pile & Cap Details (3 of 4)
- 6 - Sheet Pile & Cap Details (4 of 4)
- 7 - Aluminum Railing, Type L (Base Sheet R-20)
- 8 - Bicycle Railing (Base Sheet R-29)
- 9 - Boring Logs (1 of 3)
- 10 - Boring Logs (2 of 3)
- 11 - Boring Logs (3 of 3)

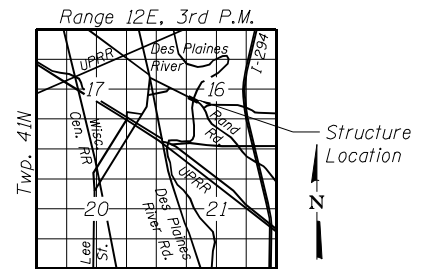
TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yd.	86
Concrete Structures	Cu. Yd.	51.0
Concrete Superstructure	Cu. Yd.	17.9
Protective Coat	Sq. Yd.	126
Stud Shear Connectors	Each	554
Reinforcement Bars, Epoxy Coated	Pound	7,670
Aluminum Railing, Type L	Foot	214
Bicycle Railing	Foot	59
Permanent Sheet Piling	Sq. Ft.	11,516
Granular Backfill for Structures	Cu. Yd.	49
Geocomposite Wall Drain	Sq. Yd.	59
Pipe Underdrains for Structures 4"	Foot	344
Tie Rods	Each	4

* Indicates Pay Item is Governed by a Special Provision



Note: See Utility, Drainage, and Lighting Plans for additional information.

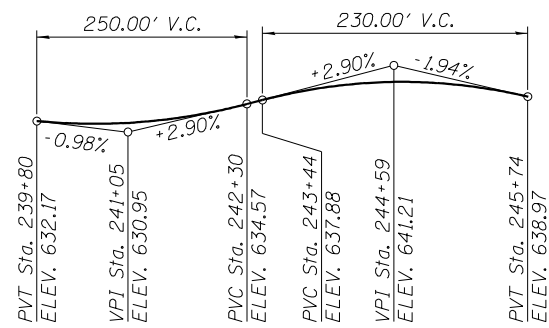


LOCATION SKETCH

PLAN

GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.
2. See "Sheet Pile & Cap Details (1 of 4)" for Section Views A-A, B-B, C-C, & D-D.
3. Slipforming of the parapet is not allowed.
4. Protective coat shall be applied to the top face of cap and the top and traffic face of parapet.



PROFILE GRADE
(Along Centerline of Rand Rd.)

DESIGN SPECIFICATIONS

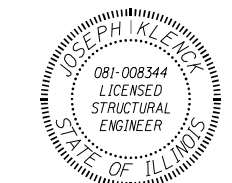
2012 AASHTO LRFD Bridge Design Specifications, 6th Edition with 2013 Iterims

DESIGN STRESSES

FIELD UNITS

- f'c = 3,500 psi
- fy = 36,000 psi (Channels & Plates)
- fy = 50,000 psi (Sheet Pile)
- fy = 60,000 psi (Reinforcement)
- fu = 60,000 psi (Shear Studs)
- fu = 75,000 psi (Tie Rods)

BY: _____
DATE SIGNED: _____
LICENSE EXPIRES: 11/30/2024



GENERAL PLAN
RAND ROAD
RTE. FAU 3523 - SEC. 120Y-B
COOK COUNTY
STATION 241+20.00 TO 243+93.99
WESTERN RETAINING WALLS

FILE NAME = X:\P\113-2838-000 Rand Road\CAD\AS\CAD Sheets\WestWall1-58J18-001-Plan.dgn



USER NAME = Etwiloe	DESIGNED - TLR 05-15-2014	REVISED
PLOT DATE = 3/18/2024	CHECKED - LM 05-27-2014	REVISED
	DRAWN - OR 12-01-2023	REVISED
	CHECKED - JIK 01-05-2024	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

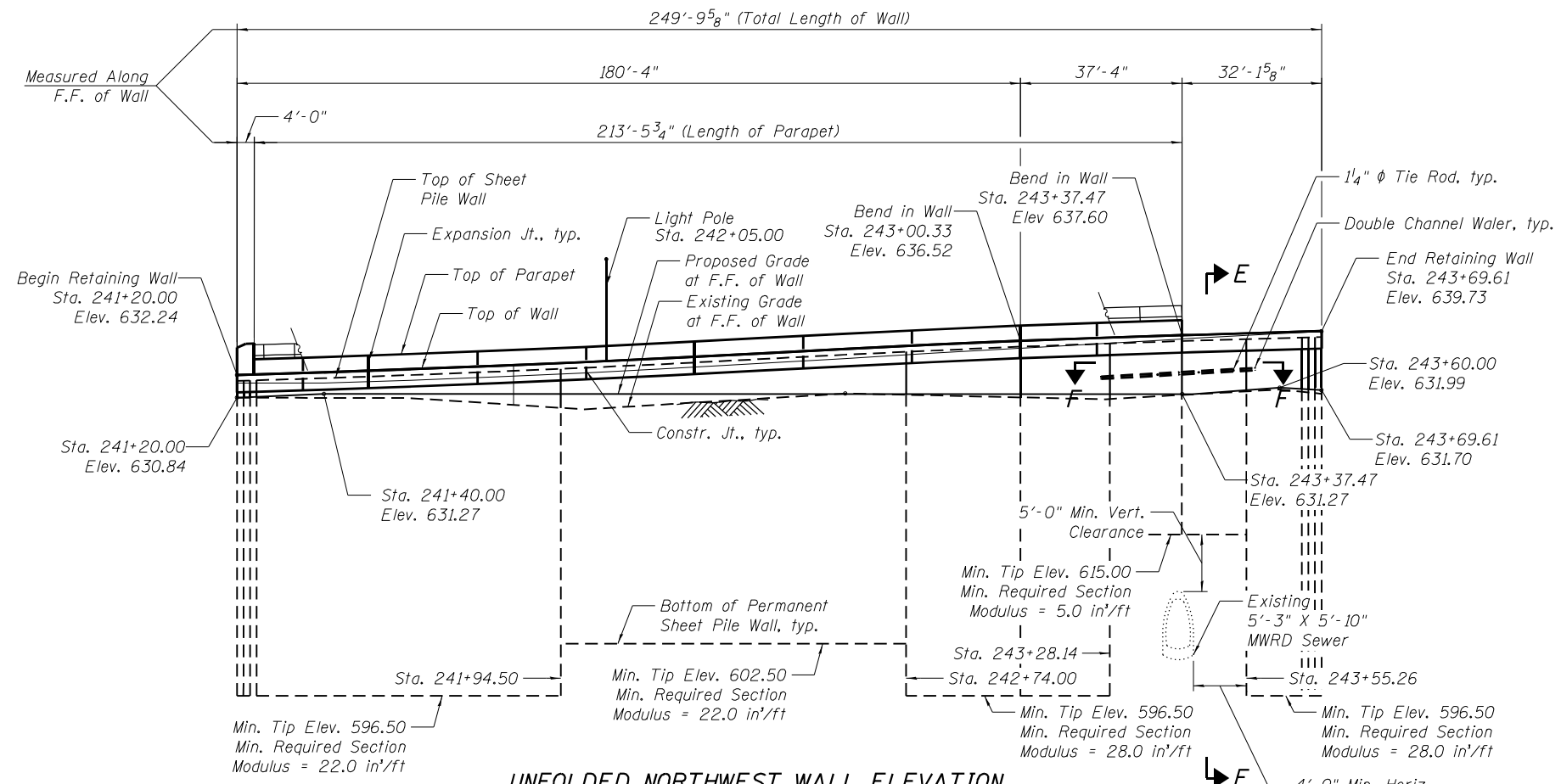
GENERAL PLAN
WESTERN RETAINING WALLS

SHEET NO. 1 OF 11 SHEETS

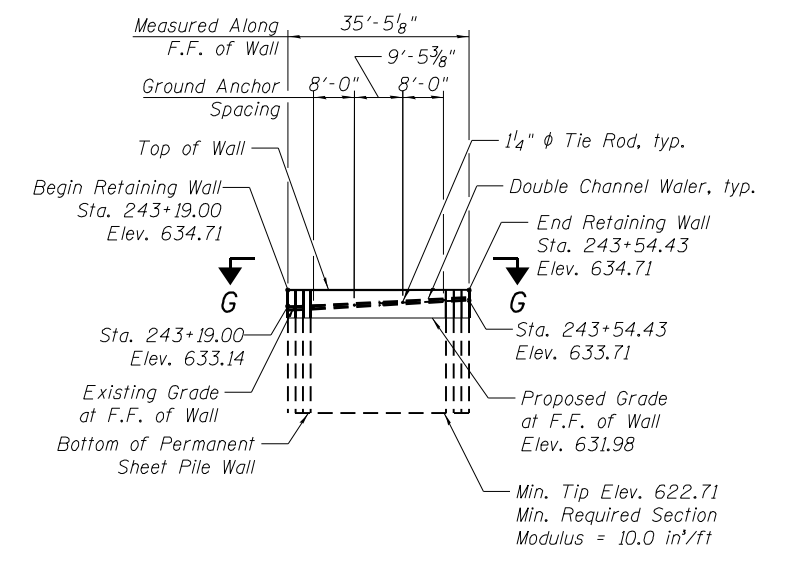
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120Y-B	COOK	267	205
CONTRACT NO. 60J10				

ILLINOIS FED. AID PROJECT

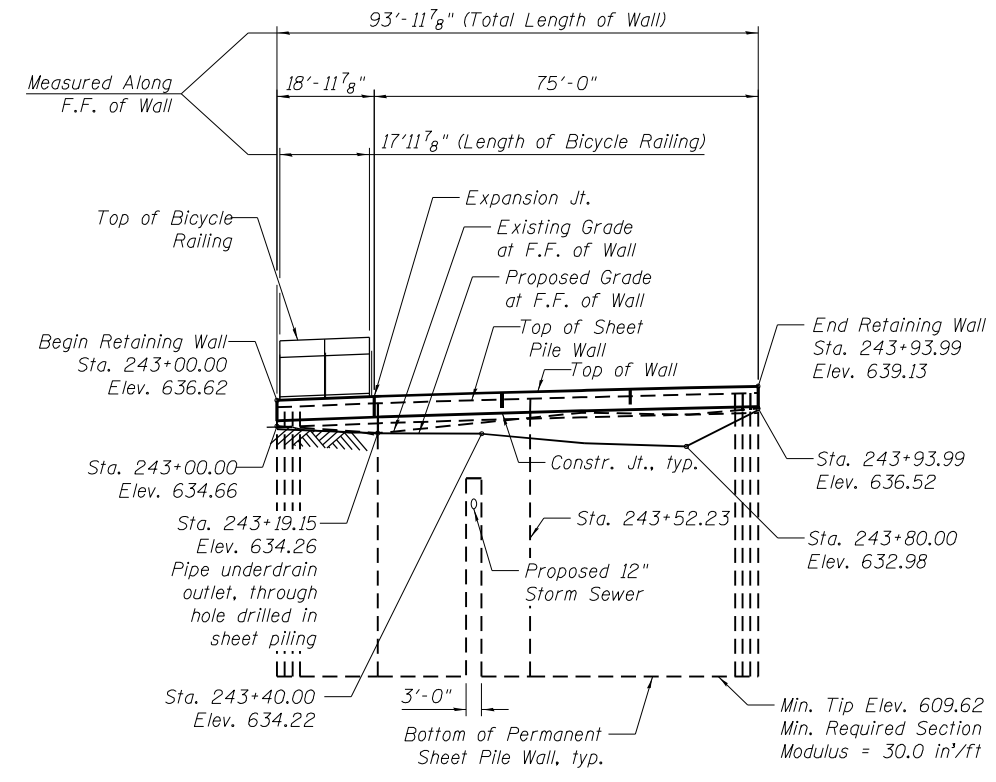
- Notes:
1. Cost of bearing plates and hex nuts is included with Tie Rods.
 2. Cost of channel wales is included with Permanent Sheet Piling.
 3. Tie rods and hex nuts shall conform to the requirements of ASTM A615 Gr. 75 and shall be hot dip galvanized in accordance with ASTM A153.
 4. Bearing plates shall conform to the requirements of ASTM A709 Gr. 36 and shall be hot dip galvanized in accordance with ASTM A153.



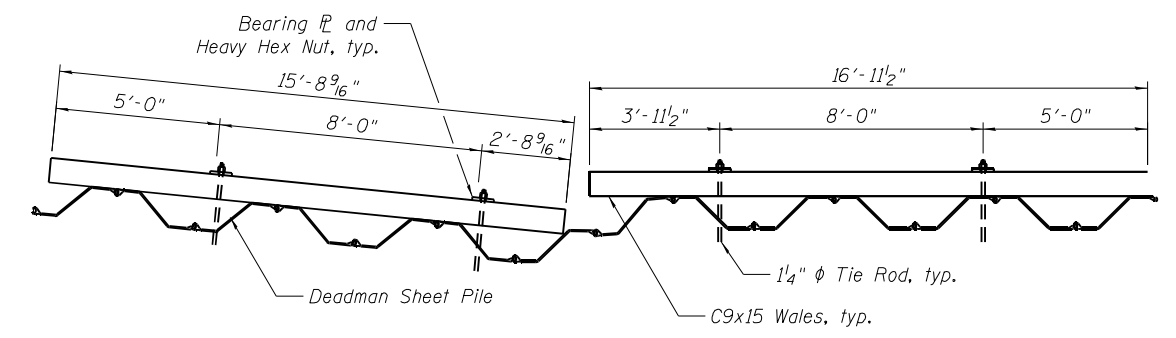
UNFOLDED NORTHWEST WALL ELEVATION
(Looking North at Back Face of Wall)



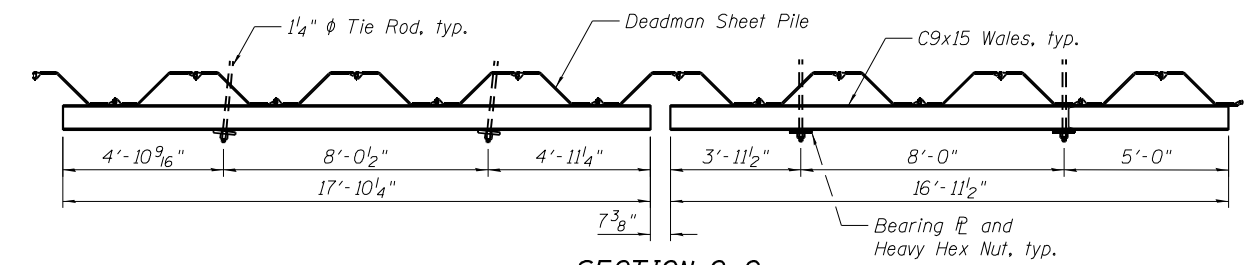
DEADMAN WALL ELEVATION
(Looking North at Front Face of Wall)



UNFOLDED SOUTHWEST WALL ELEVATION
(Looking North at Front Face of Wall)



SECTION F-F



SECTION G-G

FILE NAME = X:\P\113-2838-000 Road\Road\CAD\SS\WestWall-58J18-002-Elevations.dgn



USER NAME = Etw10e	DESIGNED - TLR 05-15-2014	REVISED
PLOT DATE = 3/18/2024	CHECKED - LM 05-27-2014	REVISED
	DRAWN - OR 12-01-2023	REVISED
	CHECKED - JIK 01-05-2024	REVISED

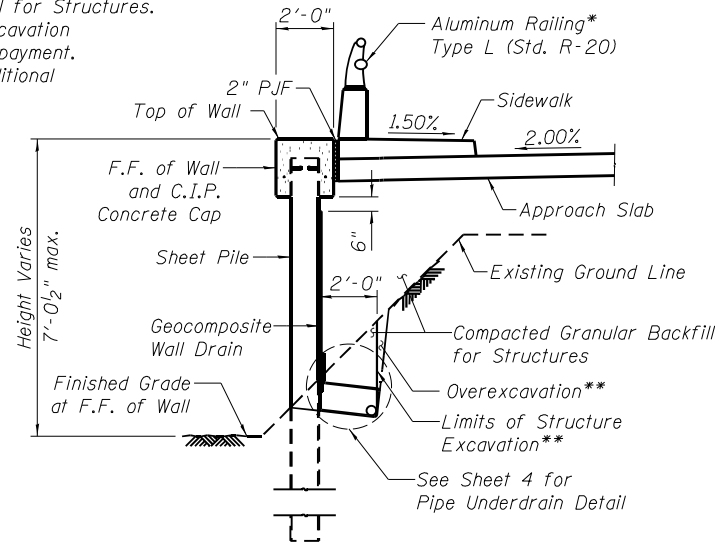
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ELEVATIONS
WESTERN RETAINING WALLS**

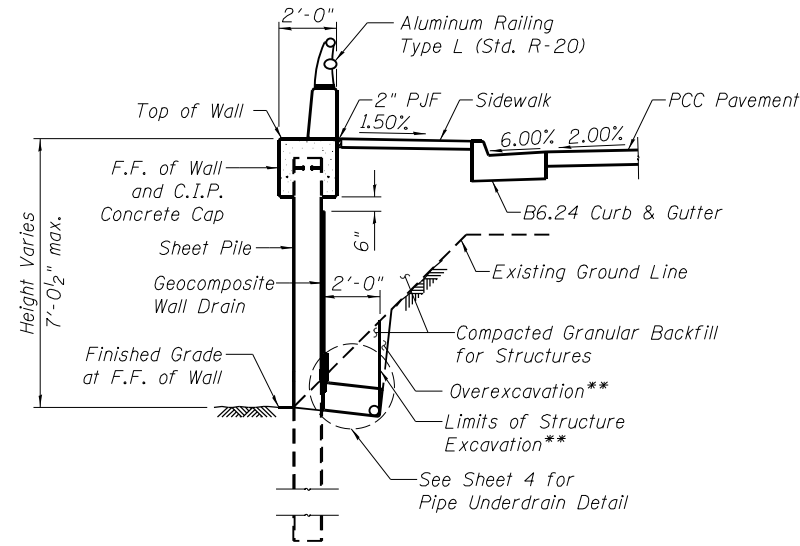
SHEET NO. 2 OF 11 SHEETS

F.A.U. RTE. 3523	SECTION 120Y-B	COUNTY COOK	TOTAL SHEETS 267	SHEET NO. 206
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				

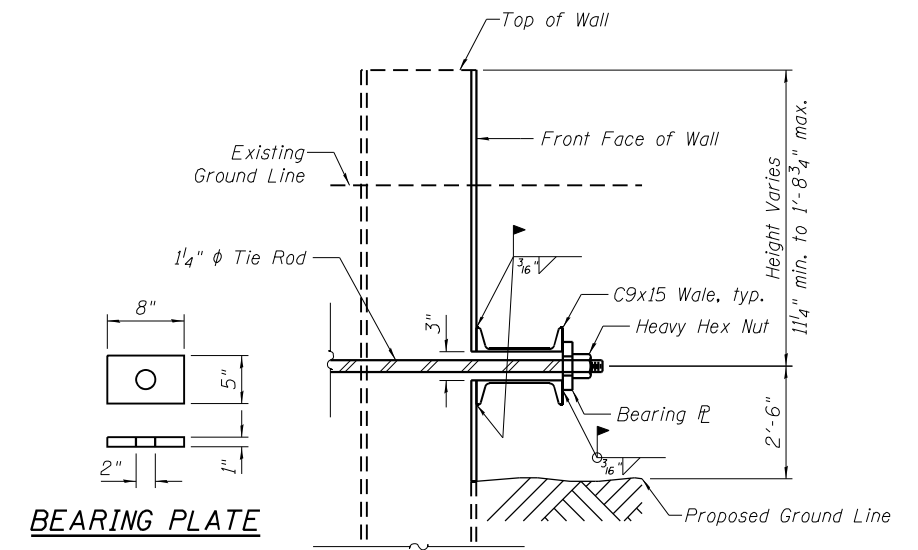
- * See Bridge (S.N. 016-0379) plans for additional information.
- ** Overexcavation beyond the limits of structure excavation not measured for payment. Backfill overexcavation with same material as used for Compacted Granular Backfill for Structures. Backfill in areas of overexcavation shall not be measured for payment.
- *** See Roadway plans for additional information.



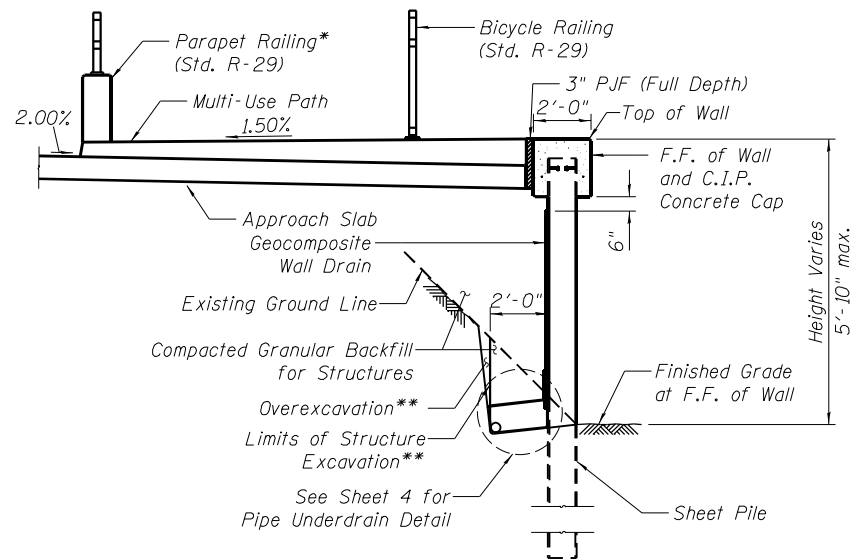
SECTION A-A THRU SHEET PILE WALL



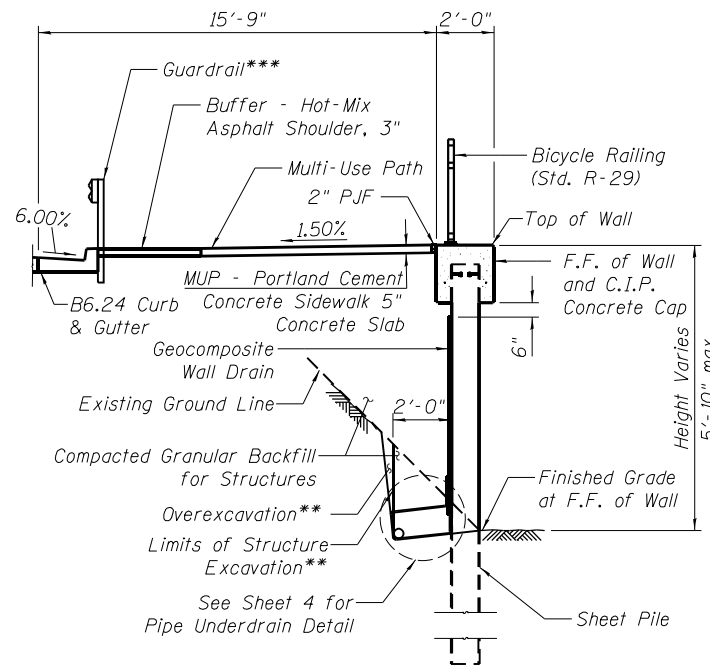
SECTION B-B THRU SHEET PILE WALL



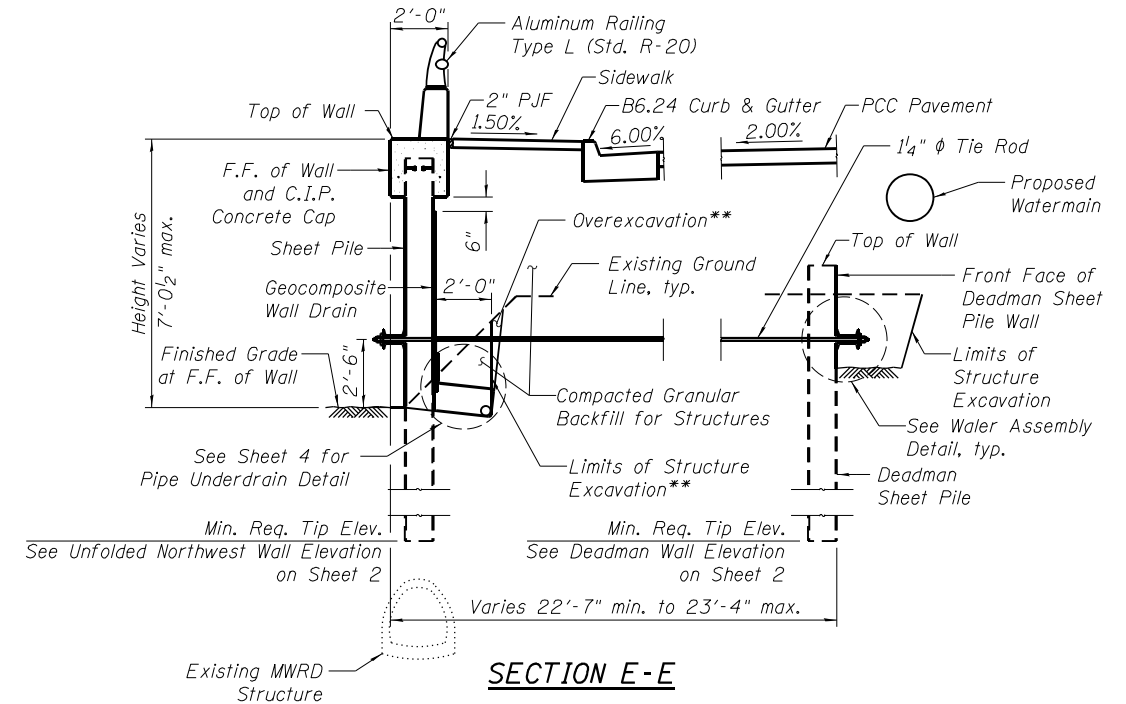
WALER ASSEMBLY DETAIL



SECTION C-C THRU SHEET PILE WALL



SECTION D-D THRU SHEET PILE WALL



SECTION E-E

FILE NAME = X:\P\13-2838-000 Road Road\CAD\DWG\CADD Sheets\WestWall1-58J18-000-File&CapDetail1.dwg



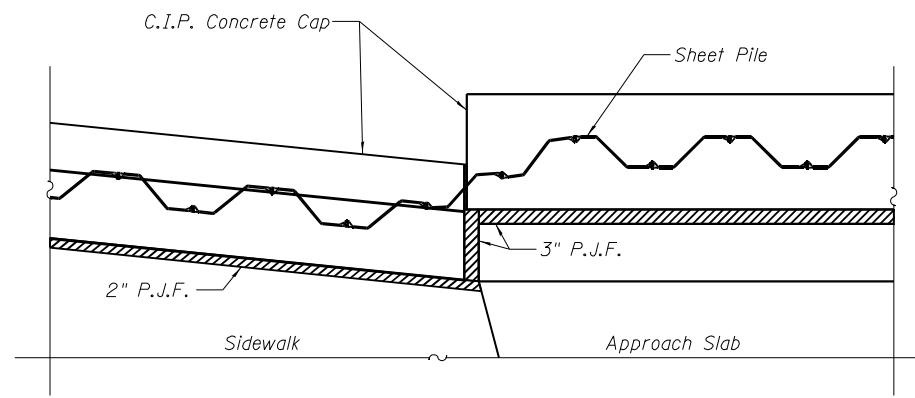
USER NAME = Etw10e	DESIGNED - TLR 05-15-2014	REVISED
PLOT DATE = 3/18/2024	CHECKED - LM 05-27-2014	REVISED
	DRAWN - OR 12-01-2023	REVISED
	CHECKED - JIK 01-05-2024	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

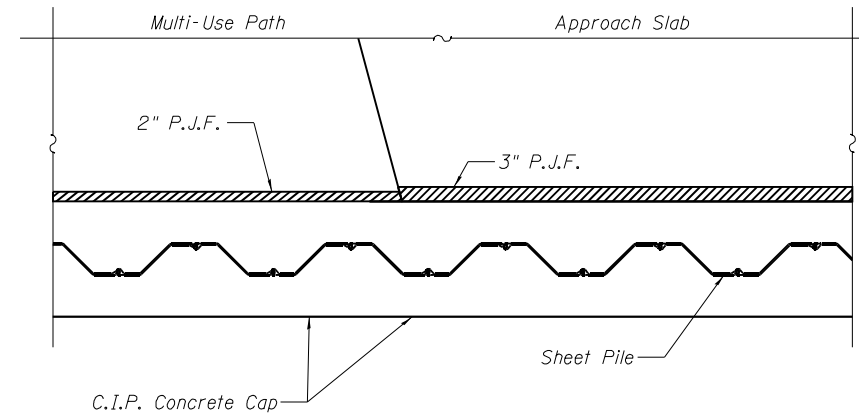
**SHEET PILE & CAP DETAILS (1 OF 4)
WESTERN RETAINING WALLS**

SHEET NO. 3 OF 11 SHEETS

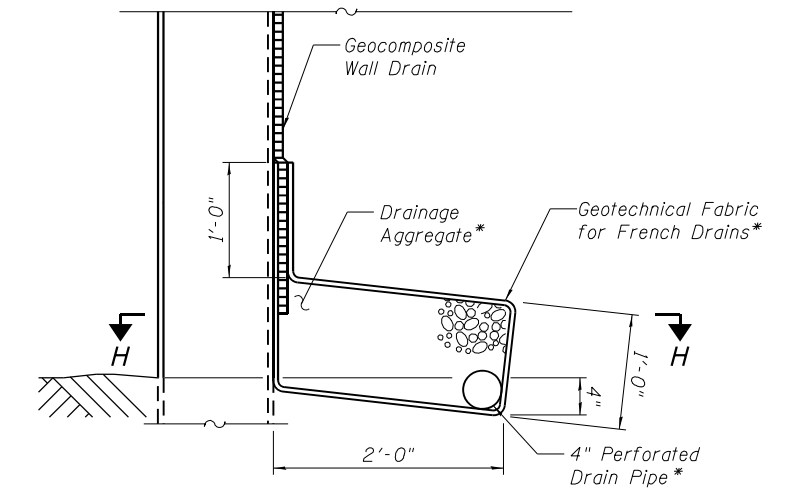
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120Y-B	COOK	267	207
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				



**NW RETAINING WALL/APPROACH SLAB
INTERFACE DETAIL**

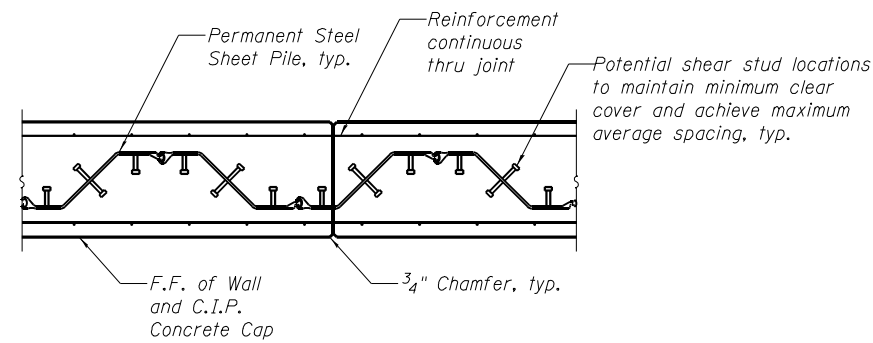


**SW RETAINING WALL/APPROACH SLAB
INTERFACE DETAIL**

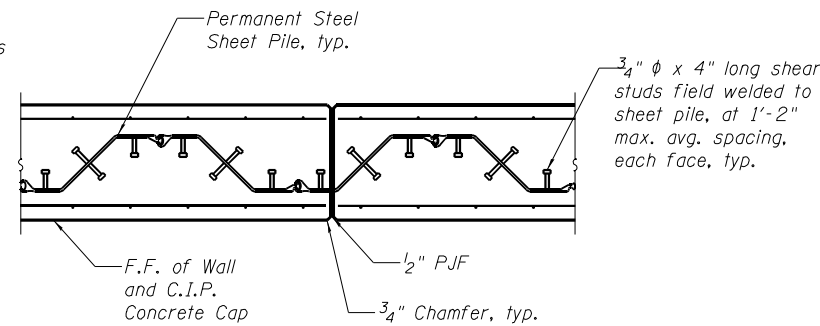


PIPE UNDERDRAIN DETAIL

*Note: Included in the cost of pipe underdrains for structures 4"

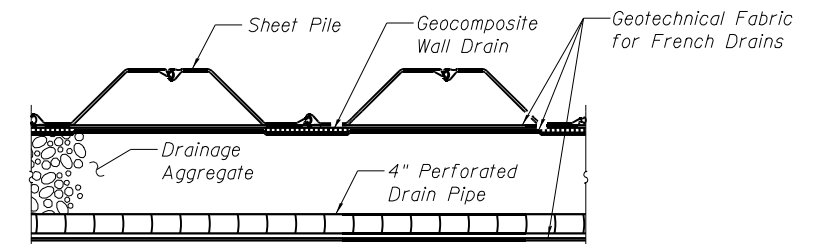


CONSTRUCTION JOINT

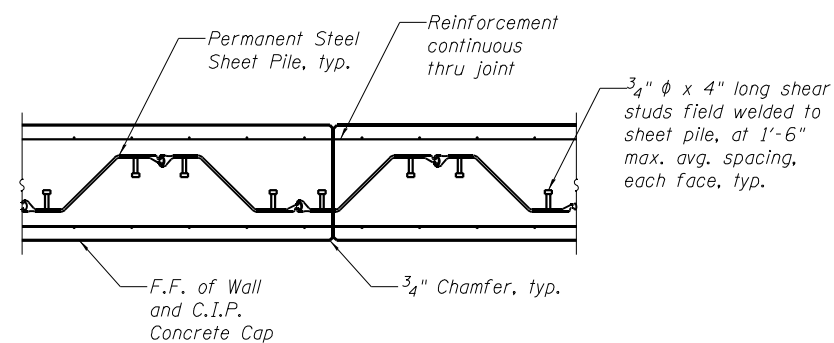


EXPANSION JOINT

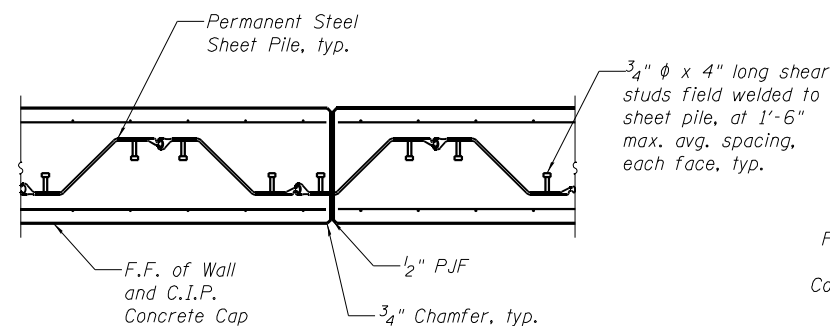
TYPICAL SECTIONS THRU NORTHWEST CAP



SECTION H-H

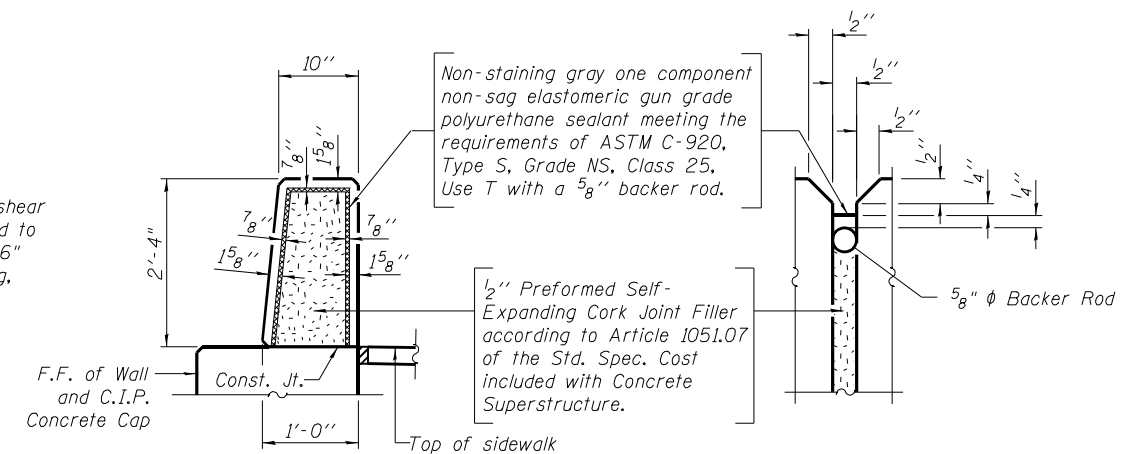


CONSTRUCTION JOINT



EXPANSION JOINT

TYPICAL SECTIONS THRU SOUTHWEST CAP



PARAPET JOINT DETAILS

FILE NAME = X:\P\113-2838-000 Road Road\CAD\NS\CADD Sheets\WestWall1560J18-004-File&CapDetail1a02.dgn



USER NAME = Etwiloe	DESIGNED - TLR 05-15-2014	REVISED
PLOT DATE = 3/18/2024	CHECKED - LM 05-27-2014	REVISED
	DRAWN - OR 12-01-2023	REVISED
	CHECKED - JIK 01-05-2024	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SHEET PILE & CAP DETAILS (2 OF 4)
WESTERN RETAINING WALLS**

SHEET NO. 4 OF 11 SHEETS

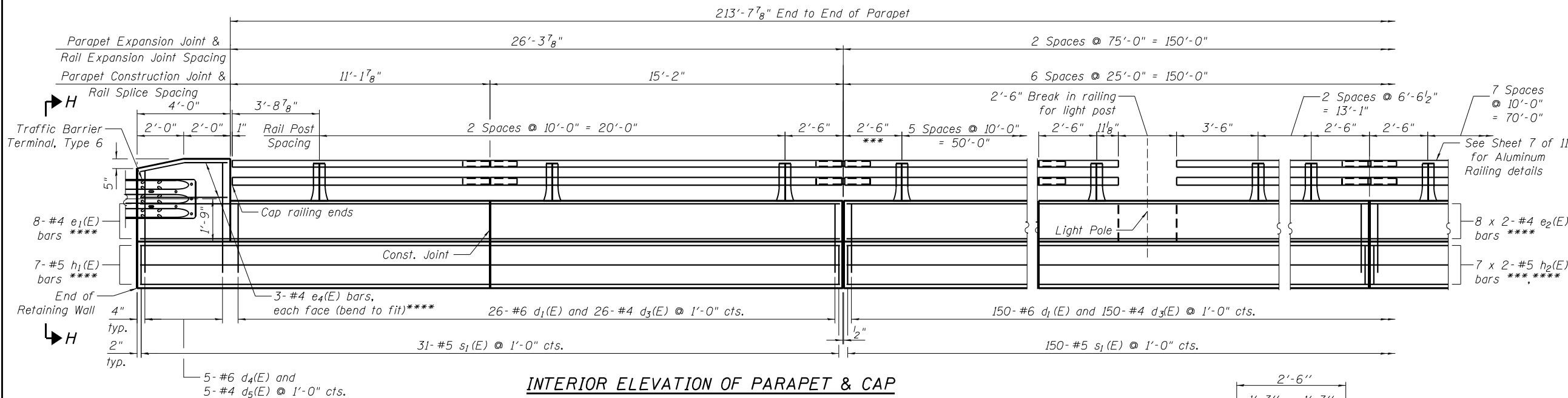
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120Y-B	COOK	267	208
CONTRACT NO. 60J10				

ILLINOIS FED. AID PROJECT

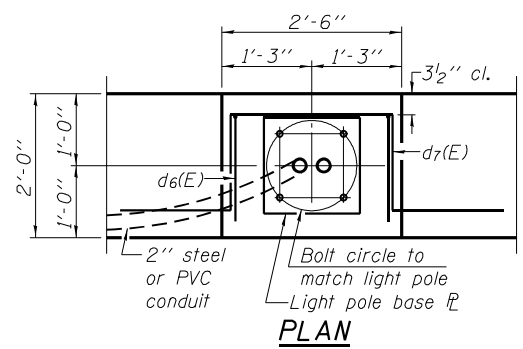
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d ₁ (E)	213	#6	4'-4"	U
d ₂ (E)	46	#6	2'-0"	Π
d ₃ (E)	213	#4	3'-6"	U
d ₄ (E)	5	#6	5'-7"	U
d ₅ (E)	5	#4	4'-9"	U
d ₆ (E)	5	#5	3'-11"	L
d ₇ (E)	5	#5	8'-11"	U
e ₁ (E)	8	#4	29'-11"	—
e ₂ (E)	32	#4	38'-5"	—
e ₃ (E)	6	#4	37'-0"	—
e ₄ (E)	6	#4	3'-9"	—
h ₁ (E)	7	#5	29'-11"	—
h ₂ (E)	28	#5	38'-10"	—
h ₃ (E)	7	#5	37'-0"	—
h ₄ (E)	7	#5	32'-8"	—
s ₁ (E)	250	#5	5'-0"	Π
Reinforcement Bars, Epoxy Coated			Pound	6,460
Concrete Structures			Cu. Yds.	37.0
Concrete Superstructure			Cu. Yds.	17.9
Protective Coat			Sq. Yd.	126

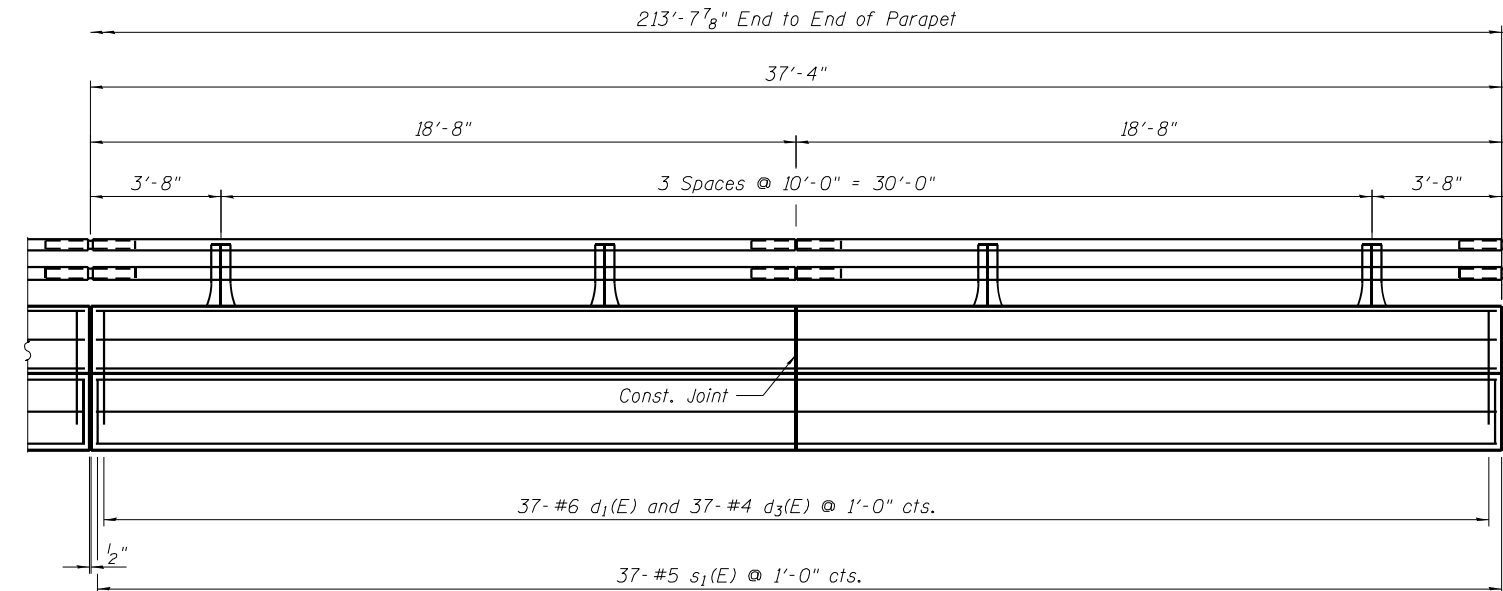
- Notes:
- Minimum lap lengths: #4 bar - 2'-1"
#5 bar - 2'-11"
 - Bars indicated thus 7 x 2-#5 etc. indicates 7 lines of bars with 2 lengths per line.
 - Apply protective coat to interior face and top of parapet.
 - Cost of anchor rods and conduit is included with Concrete Superstructure.



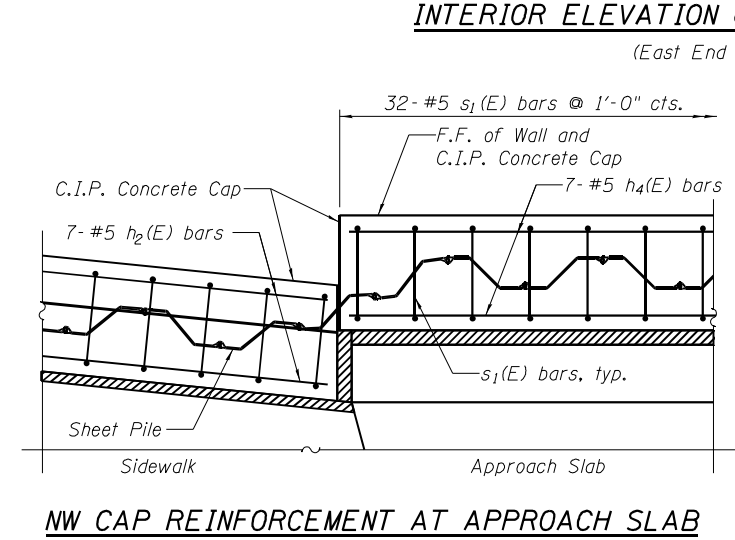
INTERIOR ELEVATION OF PARAPET & CAP
(West End of Parapet)



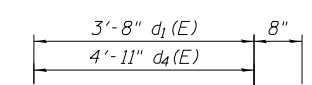
PLAN



INTERIOR ELEVATION OF PARAPET & CAP
(East End of Parapet)



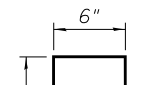
NW CAP REINFORCEMENT AT APPROACH SLAB



BAR d₁(E) & d₄(E)



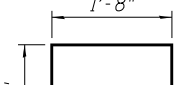
BAR d₇(E)



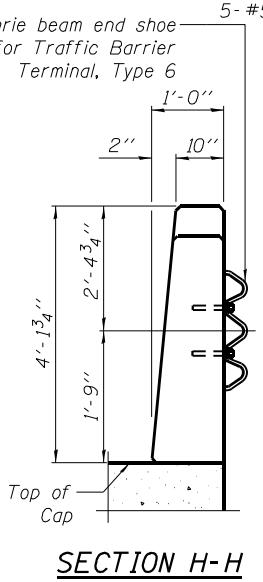
BAR d₂(E)



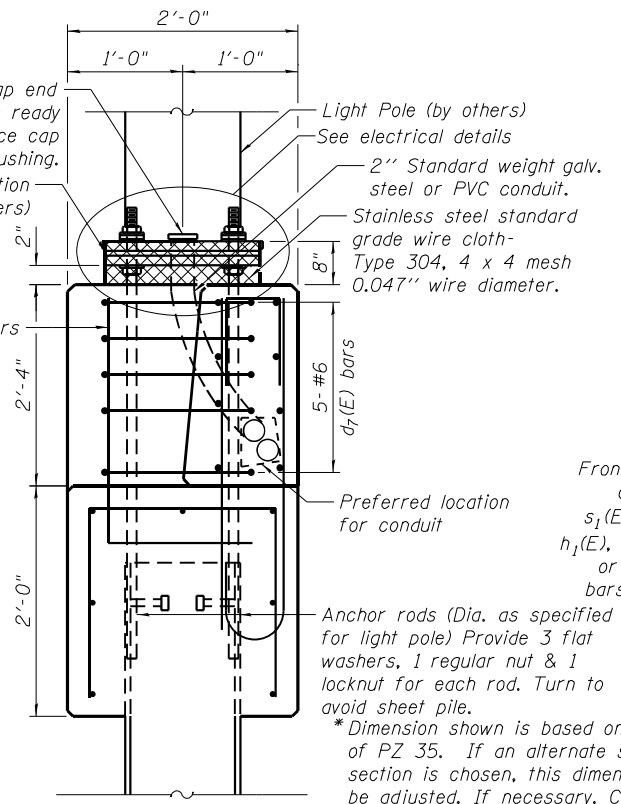
BAR d₆(E)



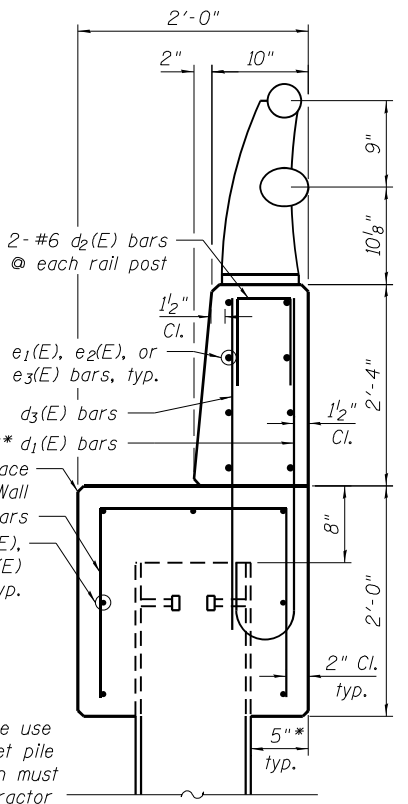
BAR s₁(E)



SECTION H-H



PARAPET & CAP WITH LIGHTPOLE



PARAPET & CAP REINFORCEMENT DETAILS

FILE NAME = X:\P\113-2838-000 Road Road\CAD\AS\CAD Sheets\WestWall-58J10-005-File&CapDetaila03.dgn



USER NAME = Etwiloe	DESIGNED - TLR	05-15-2014	REVISED
PLOT DATE = 3/18/2024	CHECKED - LM	05-27-2014	REVISED
	DRAWN - OR	12-01-2023	REVISED
	CHECKED - JIK	01-05-2024	REVISED

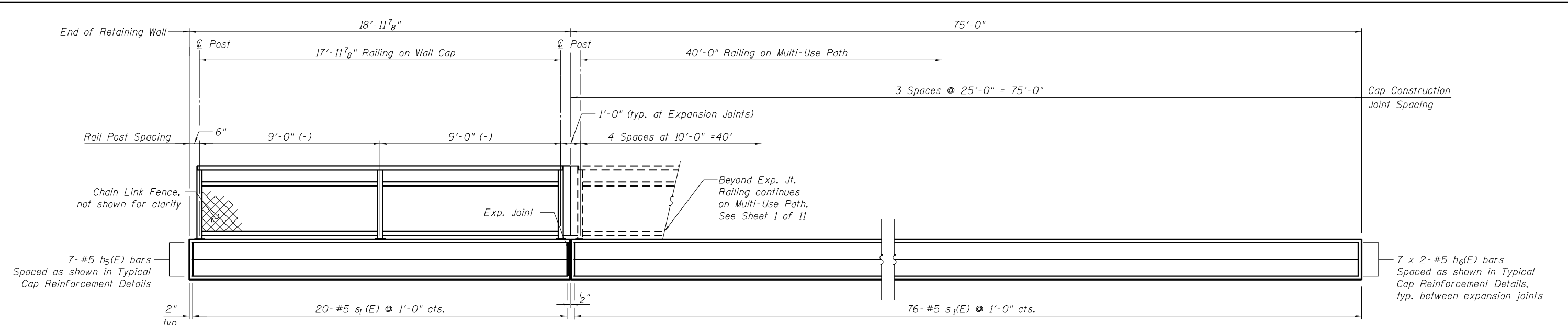
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET PILE & CAP DETAILS (3 OF 4)
WESTERN RETAINING WALLS

SHEET NO. 5 OF 11 SHEETS

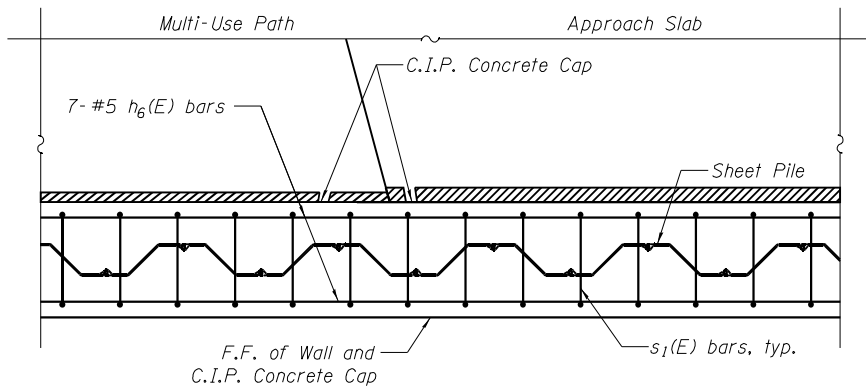
F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120Y-B	COOK	267	209
CONTRACT NO. 60J10				

ILLINOIS FED. AID PROJECT

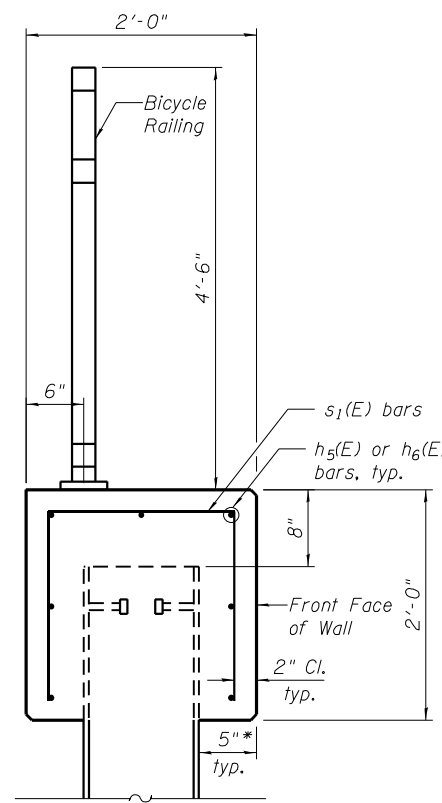


ELEVATION OF BICYCLE RAILING & CAP

(See Sheet 8 of 11 for Bicycle Railing details)



SW CAP REINFORCEMENT AT APPROACH SLAB



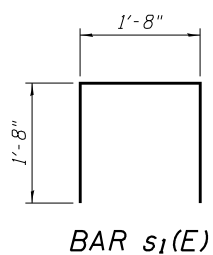
TYPICAL CAP REINFORCEMENT DETAILS

* Dimension shown is based on the use of PZ 35. If an alternate sheet pile section is chosen, this dimension must be adjusted.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h ₅ (E)	7	#5	18'-8"	—
h ₆ (E)	14	#5	38'-10"	—
s ₁ (E)	96	#5	5'-0"	Π
Reinforcement Bars, Epoxy Coated			Pound	1,210
Concrete Structures			Cu. Yds.	14.0
Protective Coat			Sq. Yd.	21

- Notes:
1. Minimum lap lengths: #5 bar - 2'-11"
 2. Bars indicarted thus 7 x 2-#5 etc. indicates 7 lines of bars with 2 lengths per line.
 3. Apply protective coat to top of cap.



BAR s₁(E)

FILE NAME = X:\P\13-2838-000 Road Road\CAD\AS\CA00 Sheets\WestWall1-58J10-006-File&CapDetail1a.dgn



USER NAME = Etwiloe	DESIGNED - TLR 05-15-2014	REVISED
PLOT DATE = 3/18/2024	CHECKED - LM 05-27-2014	REVISED
	DRAWN - OR 12-01-2023	REVISED
	CHECKED - JIK 01-05-2024	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SHEET PILE & CAP DETAILS (4 OF 4)
WESTERN RETAINING WALLS**

SHEET NO. 6 OF 11 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120Y-B	COOK	267	210
CONTRACT NO. 60J10				

ILLINOIS FED. AID PROJECT



SOIL BORING LOG

GSI Job No. 10148
 Page 1 of 1
 Date 6/11/13

ROUTE _____ DESCRIPTION US-12 (Rand Road) Over The DesPlaines River LOGGED BY TK
 SECTION _____ LOCATION SW 1/4, SEC. 16, TWP. T41N, RNG. R12E, 3rd PM
 COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. Station	DEPTH (ft)	BLOW S	UCS Qu	MOIST T (%)	Surface Water Elev. n/a ft	Stream Bed Elev. n/a ft	Groundwater Elev.:	DEPTH (ft)	BLOW S	UCS Qu	MOIST T (%)
12.0" TOPSOIL-black	631.00			25			SILTY LOAM-gray-medium dense (continued)	611.00			
SANDY CLAY-brown-stiff		2					CLAY LOAM-gray-very stiff		5	2.8	14
		2	1.0	18					8	B	
		3	P								
		2							5		
		3	1.9	19					8	3.2	17
		5	B						13	B	
		-5							-25		
	626.00						SILTY LOAM-gray-dense to very dense	606.50			
SAND-brown-medium dense		3							23		
		4	4.0	19					37		16
		6	P						44		
		4							25		
SILTY CLAY LOAM-gray-very stiff	623.00	5	3.6	20					28		15
		5	B						21		
		-10							-30		
		3									
		4		19							
		8									
	618.50						CLAY LOAM-gray-hard	598.50			
SILTY LOAM-gray-medium dense		7							10	4.2	16
		10							11	B	
		11							15		
		10									
		12		15							
		14									
		6							8		
		6		17					13	4.8	16
		7							17	B	
		-20							-40		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
 BBS, from 137 (Rev. 8-99)



BORING LOG RW-01

WEI Job No.: 555-15-03
 Client Illinois Department of Transportation
 Project MSE Retaining Walls - Rand Road
 Location Des Plaines, Illinois

Datum: NGVD
 Elevation: 636.15 ft
 North: 1959236.51 ft
 East: 1107545.22 ft
 Station: 242+17.85
 Offset: 52.00 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 (%)
635.6	6-inch thick, brown SILTY LOAM --TOPSOIL-- Very stiff, brown and gray, SILTY CLAY LOAM, trace gravel --FILL--		1	3 5 5	3.75 P	14				11	5 8 9	1.64 B	17
			2	3 6 6	3.00 P	19				12	7 9 15	1.97 B	17
630.6	Loose, brown SILTY LOAM, trace organic material		3	3 4 4	NP	22	604.4	Very dense, gray SILTY LOAM --WET--					
628.1	Stiff, brown CLAY LOAM		4	2 3 3	1.75 P	14				13	35 34 19	NP	16
625.6	Medium dense, brown, coarse SAND, little gravel --WET--		5	4 5 9	NP	18	599.4	Hard, gray SILTY CLAY, trace gravel					
623.1	Very stiff to hard, brown to gray SILTY CLAY, trace gravel		6	5 7 8	5.17 B	20	596.1	Boring terminated at 40.00 ft					
			7	4 8 13	3.36 B	22							
618.1	Medium dense to dense, gray SILTY LOAM, trace gravel --MOIST--		8	8 8 10	NP	17							
			9	11 16 16	NP	15							
613.1	Medium stiff to stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel		10	4 3 5	0.82 B	13							

GENERAL NOTES				WATER LEVEL DATA		
Begin Drilling	06-21-2013	Complete Drilling	06-21-2013	While Drilling	10.50 ft	
Drilling Contractor	Wang Testing Service	Drill Rig	TMR, CME-55	At Completion of Drilling	NA	
Driller	R & J	Logger	D. Kolpacki	Time After Drilling	NA	
Drilling Method	2.5 ft interval to 30 ft, 5ft interval to 40 ft		Checked by	B. Wilson	Depth to Water	NA
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.						

Z:\PROJECTS\2010\10148 RSH_US-12 (RAND) OVER DES PLAINES RIVER (PTB. 156, ITEM 17)\10148 BORING LOGS\10148_LOG.GPJ_7/19/13

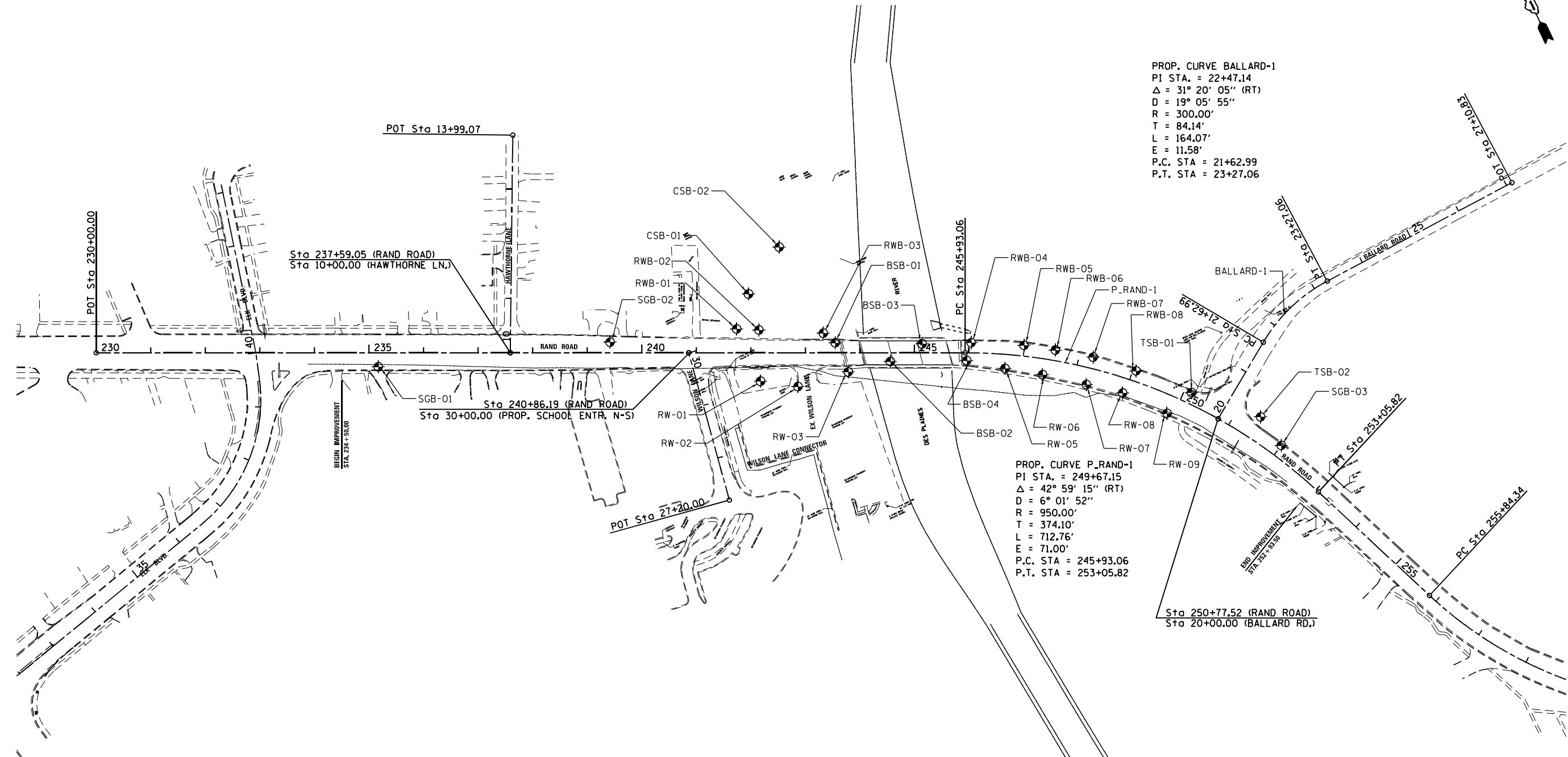


USER NAME = Etwiloe	DESIGNED - TLR 05-15-2014	REVISED
PLOT DATE = 3/18/2024	CHECKED - LM 05-27-2014	REVISED
	DRAWN - JIK 05-27-2014	REVISED
	CHECKED - LM 05-28-2014	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

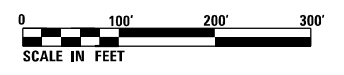
BORING LOGS (2 OF 3)
 WESTERN RETAINING WALLS
 SHEET NO. 10 OF 11 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120Y-B	COOK	267	214
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				



PROP. CURVE BALLARD-1
 PI STA. = 22+47.14
 Δ = 31° 20' 05" (RT)
 D = 19° 05' 55"
 R = 300.00'
 T = 84.14'
 L = 164.07'
 E = 11.58'
 P.C. STA = 21+62.99
 P.T. STA = 23+27.06

PROP. CURVE P_RAND-1
 PI STA. = 249+67.15
 Δ = 42° 59' 15" (RT)
 D = 6° 01' 52"
 R = 950.00'
 T = 374.10'
 L = 712.76'
 E = 71.00'
 P.C. STA = 245+93.06
 P.T. STA = 253+05.82



FILE NAME = D:\60110-ph-12-2012.dgn



USER NAME = EtwileE	DESIGNED - MCK	REVISED -
	DRAWN - MCK	REVISED -
PLOT SCALE = 200.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/18/2024	DATE - 01/10/2024	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SOIL REPORT PLAN

SCALE: 1" = 100' SHEET 1 OF 1 SHEETS STA. 230+00.00 TO STA. 255+84.34

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	216
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				



BORING LOG RW-01

Page 1 of 1

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

WEI Job No.: 555-15-03

Client: Illinois Department of Transportation
Project: MSE Retaining Walls - Rand Road
Location: Des Plaines, Illinois

Datum: NGVD
Elevation: 636.15 ft
North: 1959236.51 ft
East: 1107545.22 ft
Station: 242+17.85
Offset: 52.00 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
635.6	6-inch thick, brown SILTY LOAM --TOPSOIL-- Very stiff, brown and gray, SILTY CLAY LOAM, trace gravel --FILL--	0-5	1	3 5 3	3.75 P	14	604.4	Very dense, gray SILTY LOAM --WET--	0-5	11	5 8 9	1.64 B	17
630.6	Loose, brown SILTY LOAM, trace organic material	5-10	2	3 6 6	3.00 P	19	604.4	Very dense, gray SILTY LOAM --WET--	5-10	12	7 9 15	1.97 B	17
628.1	Stiff, brown CLAY LOAM	10-15	3	3 4 4	NP	22	599.4	Hard, gray SILTY CLAY, trace gravel	10-15	13	35 34 19	NP	16
625.6	Medium dense, brown, coarse SAND, little gravel --WET--	15-20	4	2 3 3	1.75 P	14	596.1	Boring terminated at 40.00 ft	15-20	14	11 20 22	8.04 B	13
623.1	Very stiff to hard, brown to gray SILTY CLAY, trace gravel	20-25	5	4 5 9	NP	18			20-25	7	4 8 13	3.36 B	22
618.1	Medium dense to dense, gray SILTY LOAM, trace gravel --MOIST--	25-30	6	5 7 8	5.17 B	20			25-30	8	8 8 10	NP	17
613.1	Medium stiff to stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel	30-35	7	11 16 16	NP	15			30-35	9	4 3 5	0.82 B	13

GENERAL NOTES

Begin Drilling: 06-21-2013 Complete Drilling: 06-21-2013
 Drilling Contractor: Wang Testing Service Drill Rig: TMR, CME-55
 Driller: R & J Logger: D. Kolpacki Checked by: B. Wilson
 Drilling Method: 2.5 ft interval to 30 ft, 5ft interval to 40 ft

WATER LEVEL DATA

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



BORING LOG RW-02

Page 1 of 1

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

WEI Job No.: 555-15-03

Client: Illinois Department of Transportation
Project: MSE Retaining Walls - Rand Road
Location: Des Plaines, Illinois

Datum: NGVD
Elevation: 635.28 ft
North: 1959197.83 ft
East: 1107602.89 ft
Station: 242+86.60
Offset: 61.76 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
634.94	4-inch thick ASPHALT --PAVEMENT--	0-1	1	2 2 3	1.50 P	20	627.3	Loose, brown, medium SAND --FILL--	0-1	11	6 3 11	1.39 B	18
634.4	6-inch thick, brown CRUSHED STONE --BASE COURSE--	1-5	2	2 3 6	1.50 P	18	624.8	Stiff to very stiff, gray SILTY CLAY, trace gravel --L _c (%)=41, P _L (%)=15--	1-5	12	6 7 11	3.53 B	19
627.3	Loose, brown, medium SAND --FILL--	5-10	3	2 3 5	0.50 P	18	624.8	Stiff to very stiff, gray SILTY CLAY, trace gravel --L _c (%)=41, P _L (%)=15--	5-10	13	16 17 13	3.28 B	14
624.8	Stiff to very stiff, gray SILTY CLAY, trace gravel --L _c (%)=41, P _L (%)=15--	10-15	4	2 3 5	NP	11	595.3	Boring terminated at 40.00 ft	10-15	14	8 10 16	3.94 B	17
615.3	Stiff to very stiff, gray SILTY CLAY, trace gravel --L _c (%)=41, P _L (%)=15--	15-20	5	4 5 7	2.54 B	21			15-20	6	7 12 15	1.75 P	23
612.8	Stiff to very stiff, gray SILTY CLAY, trace gravel --L _c (%)=41, P _L (%)=15--	20-25	6	4 7 12	1.75 P	23			20-25	7	4 7 12	2.00 P	24
610.3	Stiff to very stiff, gray SILTY CLAY, trace gravel --L _c (%)=41, P _L (%)=15--	25-30	7	7 5 6	1.89 B	16			25-30	8	5 6 8	2.05 B	18
607.8	Stiff to very stiff, gray SILTY CLAY, trace gravel --L _c (%)=41, P _L (%)=15--	30-35	8	5 6 8	2.05 B	18			30-35	9	5 6 8	2.05 B	18

GENERAL NOTES

Begin Drilling: 06-25-2013 Complete Drilling: 06-25-2013
 Drilling Contractor: Wang Testing Service Drill Rig: TMR, CME-55
 Driller: R & J Logger: D. Kolpacki Checked by: C. Marin
 Drilling Method: 2.5 ft interval to 30 ft, 5ft interval to 40 ft

WATER LEVEL DATA

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

FILE NAME = D:\56210-rt-b-log-201.dgn



USER NAME = EtwileE	DESIGNED - MCK	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - MCK	REVISED -
PLOT DATE = 3/18/2024	CHECKED -	REVISED -
	DATE - 01/10/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS

SCALE: NA SHEET 1 OF 16 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	217
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				



BORING LOG RW-03

Page 1 of 1

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

WEI Job No.: 555-15-03

Client: Illinois Department of Transportation
Project: MSE Retaining Walls - Rand Road
Location: Des Plaines, Illinois

Datum: NGVD
Elevation: 635.17 ft
North: 1959182.03 ft
East: 1107697.59 ft
Station: 243+78.75
Offset: 34.82 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
634.5	8-inch thick, dark brown SILTY LOAM --TOPSOIL--		1	1	NP	17				11	8	3.12	17
	Loose, brown SILTY LOAM, trace gravel and roots		2	2						12	6	4.67	19
632.2	--FILL-- Stiff to very stiff, brown SILTY CLAY LOAM, trace gravel and roots	5	3	3	2.50	20			30	13	15	NP	16
	--FILL--		4	4			603.4	Very dense, gray, fine SAND --WET--		14	9	6.40	15
626.4	Loose to medium dense, brown SANDY LOAM, trace gravel	10	5	5	NP	13	601.2	Very dense, gray SILTY LOAM	35	15	23	NP	16
624.7	Medium dense, brown GRAVELLY SAND --WET--		6	6	NP	16	598.4	Hard, gray SILTY CLAY, trace gravel		16	14	NP	16
622.2	Very stiff to hard, gray SILTY CLAY, trace gravel	15	7	7	5.17	21	595.2	Boring terminated at 40.00 ft	40	17	21	NP	16
			8	8	2.75	22				18	18	NP	16
617.2	Medium dense to dense, gray SILTY LOAM, trace gravel --MOIST-- --%Gravel=5.0--20-- --%Sand=15.5-- --%Silt=70.8-- --%Clay=8.7-- --A-4 (0)--		9	9	NP	15			45	19	16	NP	16
612.2	Stiff to hard, gray SILTY CLAY, trace gravel	25	10	10	1.23	16			50	20	7	NP	16

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	06-21-2013	Complete Drilling	06-21-2013	While Drilling	▽	10.50 ft	
Drilling Contractor	Wang Testing Service	Drill Rig	TMR, CME-55	At Completion of Drilling	▼	NA	
Driller	R & J	Logger	D. Kolpacki	Time After Drilling		NA	
Checked by	C. Marin	Depth to Water	▽	NA			
Drilling Method	2.5 ft interval to 30 ft, 5ft interval to 40 ft			The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			



BORING LOG RW-05

Page 1 of 1

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

WEI Job No.: 555-15-03

Client: Illinois Department of Transportation
Project: MSE Retaining Walls - Rand Road
Location: Des Plaines, Illinois

Datum: NGVD
Elevation: 633.34 ft
North: 1959062.70 ft
East: 1107958.96 ft
Station: 246+68.11
Offset: 25.74 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
632.3	12-inch thick ASPHALT --PAVEMENT--		1	10	1.50	14				11	6	3.69	17	
631.8	6-inch thick, brown SANDY GRAVEL --BASE COURSE--		2	2	2.00	17				12	19	NP	16	
	Stiff to very stiff, brown and gray SILTY CLAY LOAM, trace wood fragments		3	3	0.75	15	605.8	Very dense, gray SILTY LOAM		13	10	3.94	16	
627.8	Soft to stiff, brown SILTY CLAY, trace gravel and organic matter		4	4	1.25	34	601.8	Very stiff, gray SILTY CLAY, trace gravel		14	11	6.89	9	
	--FILL--		5	5	0.33	34	596.3	Hard, gray SILTY LOAM to SILTY CLAY LOAM, trace gravel		15	19	23	NP	16
626.4	Loose, gray SANDY LOAM, trace gravel and organic material		6	6	0.49	26	593.3	Boring terminated at 40.00 ft	40	16	23	NP	16	
613.6	Loose, brown, coarse SAND		7	7	0.33	26				17	12	NP	16	
611.8	Stiff to very stiff, gray SILTY CLAY, trace gravel and silt seams		8	8	NP	37				18	6	1.89	18	
	--WET--		9	9	1.89	18				19	6	2.87	17	
			10	10	2.87	17				20	2	NP	37	

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	06-19-2013	Complete Drilling	06-19-2013	While Drilling	▽	15.50 ft	
Drilling Contractor	Wang Testing Service	Drill Rig	TMR, CME-55	At Completion of Drilling	▼	15.50 ft	
Driller	R & J	Logger	D. Kolpacki	Time After Drilling		NA	
Checked by	C. Marin	Depth to Water	▽	NA			
Drilling Method	2.5 ft interval to 30 ft, 5ft interval to 40 ft			The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			

FILE NAME = D:\62110-rt-b-log2022.dgn



USER NAME = EtzweE	DESIGNED - MCK	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - MCK	REVISED -
PLOT DATE = 3/18/2024	CHECKED -	REVISED -
	DATE - 01/10/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS

SCALE: NA SHEET 2 OF 16 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	218
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				



BORING LOG RW-06

Page 1 of 1

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

WEI Job No.: 555-15-03

Client: Illinois Department of Transportation
Project: MSE Retaining Walls - Rand Road
Location: Des Plaines, Illinois

Datum: NGVD
Elevation: 632.17 ft
North: 1959022.39 ft
East: 1108016.06 ft
Station: 247+40.01
Offset: 29.09 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
631.2	12-inch thick ASPHALT --PAVEMENT--												
630.5	4-inch thick, brown SANDY GRAVEL --BASE COURSE--		1	7	NP	15				11	12	3.85	13
629.2	Medium dense, brown SILTY LOAM, trace gravel --FILL--		2	2	2.25	20				12	8	4.50	15
626.7	Very stiff, brown and gray SILTY CLAY LOAM, trace gravel --FILL--		3	0	1.25	19				13	11	2.25	16
621.7	Medium stiff to stiff, gray SILTY CLAY LOAM, trace gravel and organic matter --L _L (%)=57, P _L (%)=25-- --%Gravel=2.1-- --%Sand=16.7-- --%Silt=60.5-- --%Clay=20.6-- --A-7-6 (28)--		4	2	0.50	26				14	18	6.97	15
616.7	Very loose, brown LOAM, trace gravel --WET-- --%Gravel=0.8-- --%Sand=32.6-- --%Silt=47.9-- --%Clay=18.7-- --A-4 (0)--		5	0	NP	24				15	15	24	
615.2	Brown GRAVELLY SAND		6	0	NP	23	592.2	Boring terminated at 40.00 ft		16	10	17	
611.7	Medium dense, gray SILTY LOAM, some gravel		7	10	NP	17				17	10	17	
	Stiff to hard, gray SILTY CLAY, trace to little gravel		8	6	1.50	16				18	5	7	11
			9	5	4.26	15				19	5	7	11

WANGENG 5551503.GPJ WANGENG.GDT 7/17/13

GENERAL NOTES

Begin Drilling: 06-19-2013 Complete Drilling: 06-19-2013
Drilling Contractor: Wang Testing Service Drill Rig: TMR, CME-55
Driller: R & J Logger: D. Kolpacki Checked by: C. Marin
Drilling Method: 2.5 ft interval to 30 ft, 5ft interval to 40 ft

WATER LEVEL DATA

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



BORING LOG RW-07

Page 1 of 1

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

WEI Job No.: 555-15-03

Client: Illinois Department of Transportation
Project: MSE Retaining Walls - Rand Road
Location: Des Plaines, Illinois

Datum: NGVD
Elevation: 631.08 ft
North: 1958971.13 ft
East: 1108080.64 ft
Station: 248+25.16
Offset: 30.87 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
630.1	12-inch thick ASPHALT --PAVEMENT--												
626.9	2-inch thick, brown SANDY GRAVEL --BASE COURSE--		1	11	1.25	14				11	18	NP	22
	Soft to stiff, brown SILTY CLAY LOAM, trace to little gravel --FILL--		2	1	0.25	14				12	23	NP	16
625.6	Soft to medium stiff, brown SILTY CLAY, trace organic matter		3	1	0.50	35				13	5	5.49	14
621.8	Very loose to loose, brown SANDY LOAM, trace to some gravel --WET--		4	1	0.25	26				14	10	7.30	12
			5	1	NP	24				15	12	15	
			6	1	NP	29				16	4	6	8
615.6	Medium stiff to very stiff, gray SILTY CLAY, trace gravel		7	4	0.82	13	591.1	Boring terminated at 40.00 ft		17	6	9	
			8	2	1.31	12				18	5	7	12
			9	4	1.72	16				19	4	6	8
			10	5	3.61	18				20	2	6	9

WANGENG 5551503.GPJ WANGENG.GDT 7/17/13

GENERAL NOTES

Begin Drilling: 06-20-2013 Complete Drilling: 06-20-2013
Drilling Contractor: Wang Testing Service Drill Rig: TMR, CME-55
Driller: R & J Logger: D. Kolpacki Checked by: C. Marin
Drilling Method: 2.5 ft interval to 30 ft, 5ft interval to 40 ft

WATER LEVEL DATA

While Drilling: 9.25 ft
At Completion of Drilling: 10.00 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.

FILE NAME = D:\56210-rt-bt-bc-203.dgn



USER NAME = EtwileE	DESIGNED - MCK	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - MCK	REVISED -
PLOT DATE = 3/18/2024	CHECKED -	REVISED -
	DATE - 01/10/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS

SCALE: NA SHEET 3 OF 16 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	219
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				



BORING LOG RW-08

Page 1 of 1

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

WEI Job No.: 555-15-03

Client: Illinois Department of Transportation
Project: MSE Retaining Walls - Rand Road
Location: Des Plaines, Illinois

Datum: NGVD
Elevation: 629.89 ft
North: 1958928.16 ft
East: 1108133.65 ft
Station: 248+95.49
Offset: 27.46 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
628.9	12-inch thick ASPHALT --PAVEMENT--						604.4	Very dense, gray SILTY LOAM --WET--		11	30	NP	16
628.7	3-inch thick, brown SANDY GRAVEL --BASE COURSE--		1	6 0 0 4	1.00 P	12			30	12	30 38 42	NP	16
	Medium stiff to stiff, brown SILTY CLAY LOAM, some to little gravel --FILL--		2	1 2 2 2	0.50 P	15							
624.4	Medium stiff to stiff, brown SILTY CLAY, trace organic material with roots		3	1 2 3	0.50 P	31	598.1	Very stiff to hard, gray SILTY CLAY, trace gravel		13	5 5 12	3.28 B	16
			4	2 2 1	1.15 B	28							
618.4	Very loose, brown SANDY LOAM		5	1 1 1	NP	26							
616.9	Brown, coarse SAND, trace gravel --WET--		6	2 5 12	NP	22	589.9	Boring terminated at 40.00 ft		14	10 18 22	6.23 B	17
616.1	Medium dense, gray SILTY LOAM		15										
614.4	Stiff to hard, gray SILTY CLAY, trace gravel		7	2 3 7	1.64 B	19							
			8	2 4 6	1.56 B	18							
			9	5 9 12	4.76 B	16							
			10	6 9 24	4.02 B	19							

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	06-20-2013	Complete Drilling	06-20-2013	While Drilling	▽	11.50 ft	
Drilling Contractor	Wang Testing Service	Drill Rig	TMR, CME-55	At Completion of Drilling	▼	12.00 ft	
Driller	R & J	Logger	D. Kolpacki	Time After Drilling		NA	
Checked by	C. Marin	Drilling Method	2.5 ft interval to 30 ft, 5ft interval to 40 ft	Depth to Water	▽	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							



BORING LOG RW-09

Page 1 of 1

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

WEI Job No.: 555-15-03

Client: Illinois Department of Transportation
Project: MSE Retaining Walls - Rand Road
Location: Des Plaines, Illinois

Datum: NGVD
Elevation: 629.83 ft
North: 1958859.39 ft
East: 1108190.86 ft
Station: 249+87.75
Offset: 32.85 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
629.1	8-inch thick, brown SILTY CLAY --TOPSOIL--						604.3	Dense, gray SILTY LOAM		11	13 20 23	NP	20
	Stiff, brown SILTY CLAY LOAM, trace gravel and roots --FILL--		1	2 2 2	1.23 B	14			30	12	15 18 19	NP	15
			2	1 2 2	1.23 P	14							
624.3	Stiff, brown SILTY CLAY		3	1 2 4	1.00 P	22	598.1	Hard, gray SILTY CLAY, trace gravel		13	6 10 12	4.18 B	15
			4	1 2 1	NP	23							
620.8	Very loose to medium dense, brown SANDY LOAM, trace gravel and roots --WET--		5	2 4 6	NP	25							
616.8	Medium dense, brown, coarse SAND, some gravel		6	4 3 7	NP	8	589.8	Boring terminated at 40.00 ft		14	10 15 21	7.63 B	15
614.3	Medium dense, gray SILTY LOAM, trace gravel		7	7 10 12	NP	12							
			8	8 12 10	NP	15							
609.3	Very stiff to hard, gray SILTY CLAY, trace gravel		9	6 6 9	2.87 B	16							
			10	6 11 14	4.18 B	19							

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	06-20-2013	Complete Drilling	06-20-2013	While Drilling	▽	9.00 ft	
Drilling Contractor	Wang Testing Service	Drill Rig	TMR, CME-55	At Completion of Drilling	▼	9.00 ft	
Driller	R & J	Logger	D. Kolpacki	Time After Drilling		NA	
Checked by	C. Marin	Drilling Method	2.5 ft interval to 30 ft, 5ft interval to 40 ft	Depth to Water	▽	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

FILE NAME = D:\56210-rt-bt-blog204.dgn



USER NAME = EtwileE	DESIGNED - MCK	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - MCK	REVISED -
PLOT DATE = 3/18/2024	CHECKED -	REVISED -
	DATE - 01/10/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS

SCALE: NA SHEET 4 OF 16 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	220
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				



GSI Job No. 10148

SOIL BORING LOG

Page 1 of 2

Date 6/4/13

ROUTE _____ DESCRIPTION US-12 (Rand Road) Over The DesPlaines River LOGGED BY KD

SECTION _____ LOCATION SW 1/4, SEC. 16, TWP. T41N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. _____
 Station _____
 BORING NO. BSB-01
 Station 243+55
 Offset 18.30ft Left
 Ground Surface Elev. 633.80 ft

DEPTH (ft)	BLOW (blows)	UCS (tsf)	MOIST (%)	DESCRIPTION	DEPTH (ft)	BLOW (blows)	UCS (tsf)	MOIST (%)	DESCRIPTION
613.30				7.0" ASPHALT, 11.0" CONCRETE	613.30				CLAY LOAM-gray-stiff to hard
632.30	3			SANDY CLAY LOAM-brown-loose to medium dense (Fill)	5				
	6	2.0	19		6	1.3		15	
	9	P			9	P			
	4				5				
	3	1.8	21		5	1.5		19	
	2	P			5	B			
628.30				SANDY CLAY LOAM-dark brown-loose					
	2				12				
	2	1.8	17		13	4.0		17	
	3	P			17	P			
625.80				SAND-dark brown-medium dense					
	3				17				
	6		15		50/5"	4.5		15	
	8				-30	P			
623.30				CLAY LOAM-gray-stiff to very stiff					
	6								
	8	2.3	17						
	11	P							
	6				9				
	10	1.5	22		14	4.5		16	
	13	P			17	P			
618.30				SILTY CLAY LOAM-gray-medium dense					
	6								
	9	4.5	14						
	12	P							
	5				7				
	8	4.3	15		14	4.8		14	
	12	P			19	B			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
 BBS, from 137 (Rev. 8-99)



GSI Job No. 10148

SOIL BORING LOG

Page 2 of 2

Date 6/4/13

ROUTE _____ DESCRIPTION US-12 (Rand Road) Over The DesPlaines River LOGGED BY KD

SECTION _____ LOCATION SW 1/4, SEC. 16, TWP. T41N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. _____
 Station _____
 BORING NO. BSB-01
 Station 243+55
 Offset 18.30ft Left
 Ground Surface Elev. 633.80 ft

DEPTH (ft)	BLOW (blows)	UCS (tsf)	MOIST (%)	DESCRIPTION	DEPTH (ft)	BLOW (blows)	UCS (tsf)	MOIST (%)	DESCRIPTION
576.80				CLAY LOAM-gray-stiff to hard (continued)	576.80				SILTY LOAM-gray-medium dense (continued)
					571.80				SANDY LOAM-gray-very dense
	8				30				
	16	4.9	15		50/5"			17	
	22	B			-65				
566.80				SILT-gray-medium dense					
	8				12				
	14	4.5	17		12			20	
	22	P			12				
561.80				CLAY LOAM-gray-very stiff					
	7				12				
	11	4.5	21		20	3.6		12	
	15	P			25	B			
576.80				SILTY LOAM-gray-medium dense					
	5				13				
	8		12		18	3.8		13	
	11			End Of Boring @ -80.0'. Boring backfilled with cuttings.	30	B			
					553.80	-80			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
 BBS, from 137 (Rev. 8-99)

FILE NAME = D:\62110-148-RSH-12 (RAND) OVER DES PLAINES RIVER (PTB 156, ITEM 17)10148 BORING LOGS\10148_LOG.GPJ 7/9/13



USER NAME = EtzwileE	DESIGNED - MCK	REVISED -
	DRAWN - MCK	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/18/2024	DATE - 01/10/2024	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BORING LOGS

SCALE: NA SHEET 5 OF 16 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	221
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				



GSI Job No. 10148

SOIL BORING LOG

Page 1 of 2

Date 6/3/13

ROUTE _____ DESCRIPTION US-12 (Rand Road) Over The DesPlaines River LOGGED BY KD

SECTION _____ LOCATION SW 1/4, SEC. 16, TWP. T41N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. _____
 Station _____
 BORING NO. BSB-03
 Station 245+14
 Offset 16.50ft Left
 Ground Surface Elev. 635.60 ft

DEPTH H S	B L O W S	U C S Qu	M O I S T	Surface Water Elev. n/a ft				D E P T H	B L O W S	U C S Qu	M O I S T
				Stream Bed Elev. n/a ft							
Groundwater Elev.:				D E P T H	B L O W S	U C S Qu	M O I S T	Groundwater Elev.:			
First Encounter n/a ft								(ft)	(/6")	(tsf)	(%)
After _____ Hrs.				After _____ Hrs.							
14.0" CONCRETE BRIDGE DECK											
VOID / RIVER 634.43											
CRUSHED STONE-very dense (Fill) (continued) 614.10 10											
SILTY SAND & GRAVEL-gray-medium dense (Apparent Fill) 612.10 4 15											
CLAY LOAM-gray-stiff to very stiff 612.10 4 1.2 16											
5 5 B											
4 5 1.8 19											
6 B											
5 8 3.2 18											
13 B											
603.60											
SILTY LOAM-gray-very dense 603.60 21											
35 13											
35 35											
618.60											
CRUSHED STONE-very dense (Fill) 598.60 50/5" 3											
8											
50/5" 7											
12 5.0 14											
15 B											
-20											

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
 BBS, from 137 (Rev. 8-99)



GSI Job No. 10148

SOIL BORING LOG

Page 2 of 2

Date 6/3/13

ROUTE _____ DESCRIPTION US-12 (Rand Road) Over The DesPlaines River LOGGED BY KD

SECTION _____ LOCATION SW 1/4, SEC. 16, TWP. T41N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. _____
 Station _____
 BORING NO. BSB-03
 Station 245+14
 Offset 16.50ft Left
 Ground Surface Elev. 635.60 ft

DEPTH H S	B L O W S	U C S Qu	M O I S T	Surface Water Elev. n/a ft				D E P T H	B L O W S	U C S Qu	M O I S T
				Stream Bed Elev. n/a ft							
Groundwater Elev.:				D E P T H	B L O W S	U C S Qu	M O I S T	Groundwater Elev.:			
First Encounter n/a ft								(ft)	(/6")	(tsf)	(%)
After _____ Hrs.				After _____ Hrs.							
CLAY LOAM-gray-stiff to hard (continued) 573.60											
SILT-gray-dense to very dense 573.60 7 30											
15 2.4 12											
16 B											
7 6											
11 4.2 17											
16 B											
563.60											
CLAY LOAM-gray-very stiff to hard 563.60 8 6											
13 4.5 19											
15 P											
578.60											
CLAY-gray-very stiff 578.60 9 9											
13 3.3 22											
20 B											
End Of Boring @ -80.0'. Boring backfilled with cuttings. 555.60 12 2.9 18											
13 B											
-80											

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
 BBS, from 137 (Rev. 8-99)

FILE NAME = D:\60110-rt-b-log207.dgn



USER NAME = EtzwileE	DESIGNED - MCK	REVISED -
	DRAWN - MCK	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/18/2024	DATE - 01/10/2024	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BORING LOGS

SCALE: NA SHEET 7 OF 16 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	223
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				



GSI Job No. 10148

SOIL BORING LOG

Page 1 of 1

Date 6/11/13

ROUTE _____ DESCRIPTION US-12 (Rand Road) Over The DesPlaines River LOGGED BY TK

SECTION _____ LOCATION SW 1/4, SEC. 16, TWP. T41N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.	DEPTH	BLOW	UCS	MOIST	Surface Water Elev.	DEPTH	BLOW	UCS	MOIST
Station	(ft)	(/6")	(tsf)	(%)	n/a ft	(ft)	(/6")	(tsf)	(%)
BORING NO. RWB-01					Stream Bed Elev. n/a ft				
Station 241+74					Groundwater Elev.:				
Offset 43.80ft Left					First Encounter 625.3 ft				
Ground Surface Elev. 630.80 ft					Upon Completion n/a ft				
					After Hrs. _____				
18.0" TOPSOIL-black				19	CLAY LOAM-gray-stiff (continued)				
629.30	4					3		1.8	17
SAND & GRAVEL-brown	4			9		6	B		
	3					7			
626.30	2			10		12	2.0		19
SILTY LOAM-brown & gray-very loose	-5	3				13	B		
	0					21			
	0			31		31	4.5		15
	1					36	P		
622.30	2				SILTY LOAM-gray-dense	602.30	25		16
SILTY CLAY LOAM-gray-very stiff	6	3.9	18			31			
	7	B				20			
	-10				CLAY LOAM-gray-hard	599.80			
	4								
	7	2.4	26						
	10	B							
617.30	4				SILTY LOAM-gray-medium dense	617.30	7		13
SILTY LOAM-gray-medium dense	11		16			15	4.6		
	10					21	B		
	-15					-35			
	7								
	12		16						
	12								
613.30					CLAY LOAM-gray-stiff				
	8								
	8	1.0	15		End Of Boring @ -40.0'. Boring backfilled with cuttings.	590.80	18	5.5	12
	6	B				-40	20	B	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



GSI Job No. 10148

SOIL BORING LOG

Page 1 of 1

Date 6/11/13

ROUTE _____ DESCRIPTION US-12 (Rand Road) Over The DesPlaines River LOGGED BY TK

SECTION _____ LOCATION SW 1/4, SEC. 16, TWP. T41N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.	DEPTH	BLOW	UCS	MOIST	Surface Water Elev.	DEPTH	BLOW	UCS	MOIST
Station	(ft)	(/6")	(tsf)	(%)	n/a ft	(ft)	(/6")	(tsf)	(%)
BORING NO. RWB-02					Stream Bed Elev. n/a ft				
Station 242+15					Groundwater Elev.:				
Offset 41.90ft Left					First Encounter 623.6 ft				
Ground Surface Elev. 630.60 ft					Upon Completion n/a ft				
					After Hrs. _____				
18.0" TOPSOIL-black				13	SILTY LOAM-gray-medium dense to dense (continued)	609.60			
629.10	0				CLAY LOAM-gray-very stiff		4		
SANDY CLAY-brown-soft to medium stiff	1	0.4	23			7	2.2	16	
	1	B				10	B		
	2					4			
	2	1.0	14			6	3.0	17	
	-5	P				9	B		
	5					4			
	7		11			9	2.6	16	
623.60	10				SAND-brown-medium dense	603.10	14	B	
End Of Boring @ -27.5'. Boring backfilled with cuttings.									
	5								
	6		17						
	7								
	-10								
	28								
	29		19						
	6								
617.10					SILTY LOAM-gray-medium dense to dense	617.10	4		17
	4					8			
	8					12			
	-15					-35			
	4								
	6		15						
	7								
	3								
	5		17						
	-20								
	9								

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

FILE NAME = D:\6210-rt-b-log210.dgn



USER NAME = EtwileE	DESIGNED - MCK	REVISED -
	DRAWN - MCK	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/18/2024	DATE - 01/10/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS

SCALE: NA SHEET 10 OF 16 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	226
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				



GSI Job No. 10148

SOIL BORING LOG

Page 1 of 1

Date 6/7/13

ROUTE _____ DESCRIPTION US-12 (Rand Road) Over The DesPlaines River LOGGED BY TK

SECTION _____ LOCATION SW 1/4, SEC. 16, TWP. T41N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. Station	DEPTH H	BLOW S	UCS Qu	MOIST T	Surface Water Elev. n/a ft				DEPTH H	BLOW S	UCS Qu	MOIST T
					Stream Bed Elev. n/a ft							
BORING NO. Station Offset Ground Surface Elev.	(ft)	(/6")	(tsf)	(%)	Groundwater Elev.:				(ft)	(/6")	(tsf)	(%)
					First Encounter Dry To 10.0' ft							
					Upon Completion n/a ft							
					After Hrs.							
15.0" ASPHALT					SILT-gray-medium dense				613.50			
	632.75	11			SILTY LOAM-gray-medium dense					9		
SAND & GRAVEL-brown-medium dense (Fill)		14		3					11		20	
		15							14			
	631.00				CLAY LOAM-gray-very stiff				611.00			
CLAY LOAM-dark brown & gray-stiff (Fill)		3							5			
		2	1.0	17					9	2.3	18	
		3	P						10	B		
	628.50								5			
SANDY CLAY LOAM-brown-very loose (Apparent Fill)		1							8	2.4	18	
		2	1.0						11	B		
		1	P						5			
		0							7	3.9	17	
		1	0.5	19					9	B		
		1	P									
	621.00				SILT-gray-medium dense				602.00			
SILTY CLAY-brown-soft (Wet)		1							27			
		0	0.3	25					36		15	
		1	P						50/4"			
		1										
		2	0.3	26								
		1	P		CLAY LOAM-gray-hard				597.00			
	616.00				SILT-gray-medium dense							
		6							7			
		7	6.1	17					14	5.0	16	
		8	B		End Of Boring @ -40.0'. Boring backfilled with cuttings.				594.00	15	B	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



GSI Job No. 10148

SOIL BORING LOG

Page 1 of 1

Date 6/7/13

ROUTE _____ DESCRIPTION US-12 (Rand Road) Over The DesPlaines River LOGGED BY TK

SECTION _____ LOCATION SW 1/4, SEC. 16, TWP. T41N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. Station	DEPTH H	BLOW S	UCS Qu	MOIST T	Surface Water Elev. n/a ft				DEPTH H	BLOW S	UCS Qu	MOIST T
					Stream Bed Elev. n/a ft							
BORING NO. Station Offset Ground Surface Elev.	(ft)	(/6")	(tsf)	(%)	Groundwater Elev.:				(ft)	(/6")	(tsf)	(%)
					First Encounter 625.2 ft							
					Upon Completion n/a ft							
					After Hrs.							
12.0" ASPHALT					SILTY LOAM to SILT-gray-medium dense to dense							
	632.70				(continued)							
SAND & GRAVEL-brown-medium dense (Fill)		10							10			
		15		4					20		16	
		12							20			
	630.70				SILTY CLAY LOAM with GRAVEL-gray-medium dense				610.70			
CLAYEY SAND with GRAVEL-brown & gray-very loose to loose (Fill)		5							6			
		4		13					10		8	
		4							10			
	608.20				CLAY LOAM-gray-stiff				608.20			
		1							6			
		3		17					9	1.5	18	
		2							12	B		
	605.70				SILTY LOAM-gray-medium dense				605.70			
		1							11			
		1		19					28		15	
		1							37			
	623.20				SANDY CLAY LOAM-dark brown-very loose (Apparent Fill)				601.70			
		1										
		1		19								
		2										
	620.70				SILTY CLAY-brown & gray-very loose							
		1							19			
		0	0.3	23					11	3.0	15	
		1	P						15	B		
	618.20				SANDY LOAM-brown-loose							
		2										
		3		23								
		3										
	615.70				SILTY LOAM to SILT-gray-medium dense to dense							
		12							11			
		12		15					15	3.5	14	
		15			End Of Boring @ -40.0'. Boring backfilled with cuttings.				593.70	17	B	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

FILE NAME = D:\60110-148-RSH-156-ITEM 17\10148 BORING LOGS\10148_LOG.GPJ 7/9/13



USER NAME = EtzwileE	DESIGNED - MCK	REVISED -
	DRAWN - MCK	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/18/2024	DATE - 01/10/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS

SCALE: NA SHEET 12 OF 16 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	228
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				



GSI Job No. 10148

SOIL BORING LOG

Page 1 of 1

Date 6/10/13

ROUTE _____ DESCRIPTION US-12 (Rand Road) Over The DesPlaines River LOGGED BY TK

SECTION _____ LOCATION SW 1/4, SEC. 16, TWP. T41N, RNG. R12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. _____
Station _____

BORING NO. TSB-02
Station 251+41
Offset 43.20ft Left
Ground Surface Elev. 631.30 ft

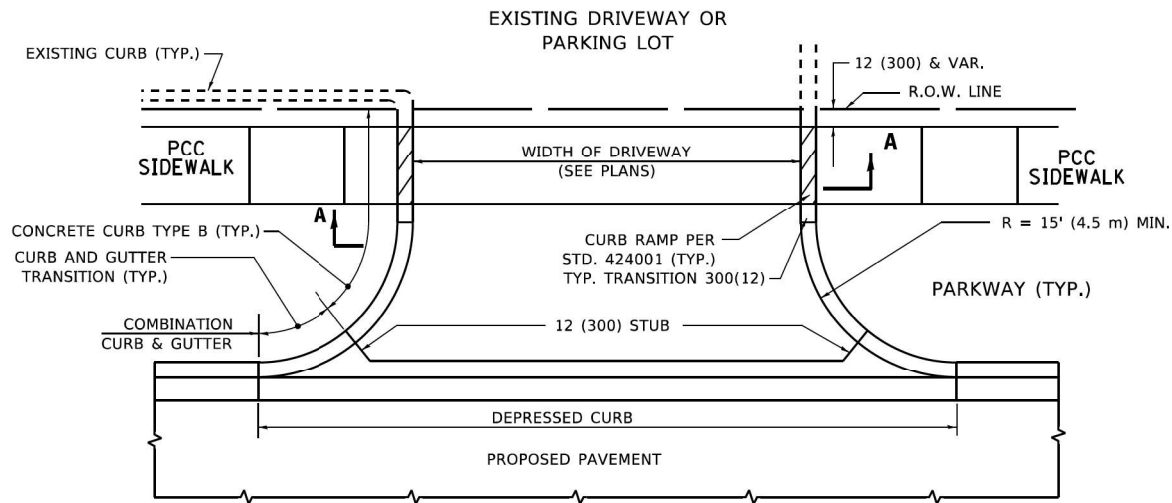
DEPTH (ft)	BLOW (ft)	UCS (tsf)	MOIST (%)	Surface Water Elev. (ft)	DEPTH (ft)	BLOW (ft)	UCS (tsf)	MOIST (%)
18.0"			16	n/a				
629.80	4			n/a				
	2	1.0 P	26					
628.30								
	3							
	4	1.0 B	22					
	6							
	3							
	4	0.5 B	26					
623.30								
	7							
	9	4.5 P	19					
	9							
620.80								
	6		17					
	8							
	4							
	6		18					
	8							
615.80								
	3							
	5	2.7 B	14					
	6							
	8							
	8	2.3 B	16					
	9							
611.30								

End Of Boring @ -20.0'. Boring backfilled with cuttings.

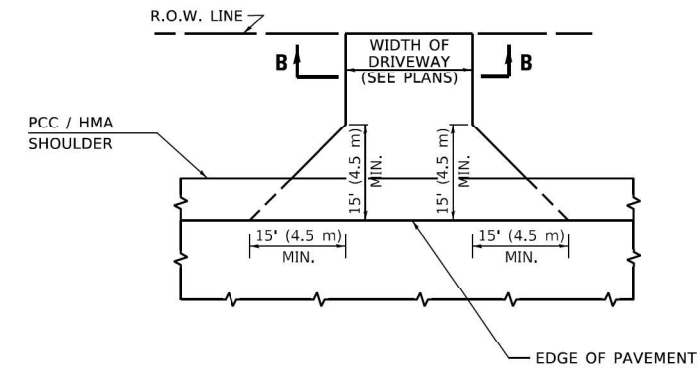
Z:\PROJECTS\2010\10148 RSH US-12 (RAND) OVER DES PLAINES RIVER (FTB 156, ITEM 17)\10148 BORING LOGS\10148_LOG.GPJ 7/9/13

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

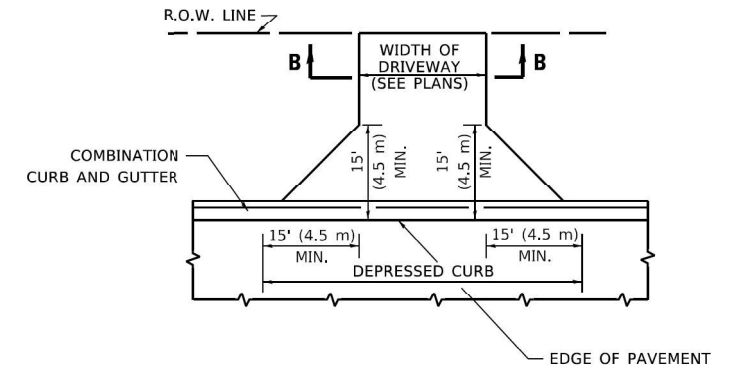
FILE NAME = D:\6010-rt-b-log216.dgn



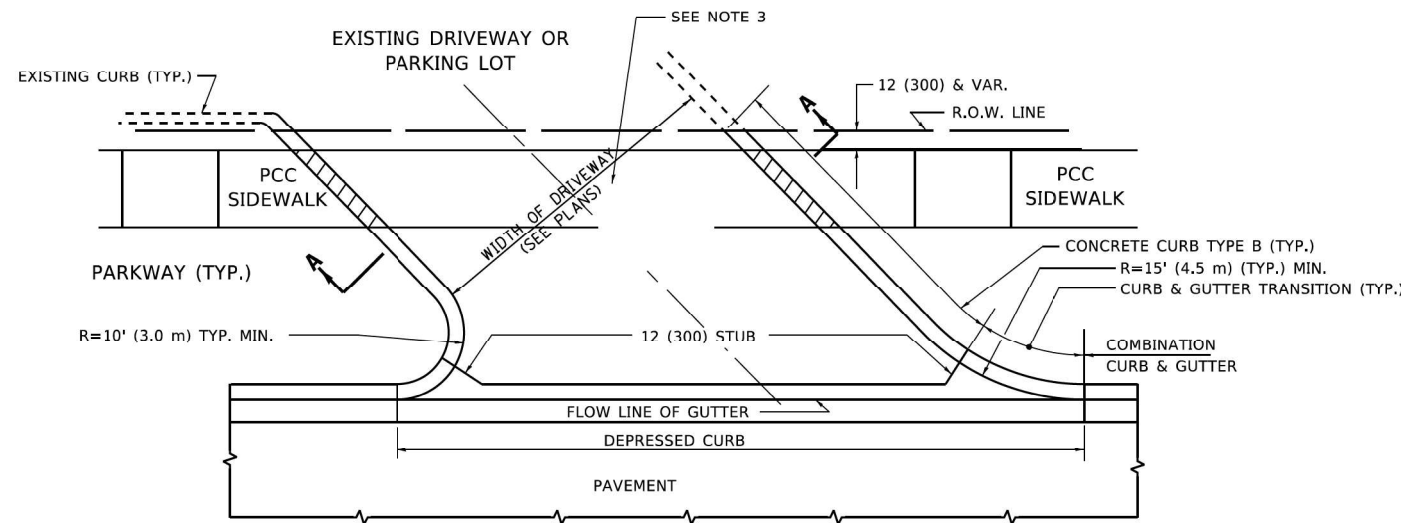
WITH CONCRETE CURB, TYPE B



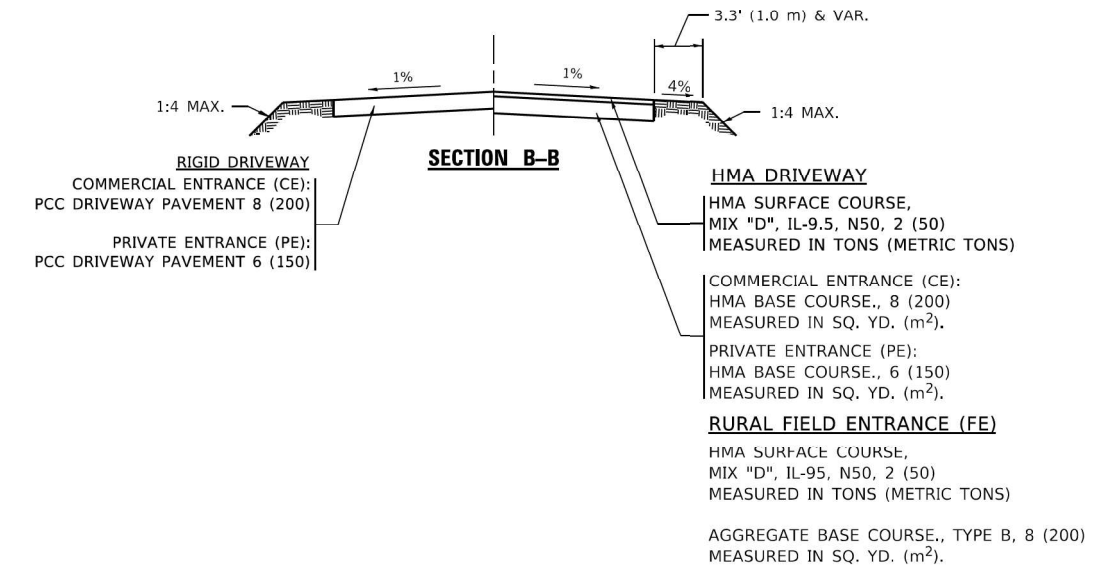
ADJACENT TO PCC /HMA SHOULDER



ADJACENT TO CURB AND GUTTER

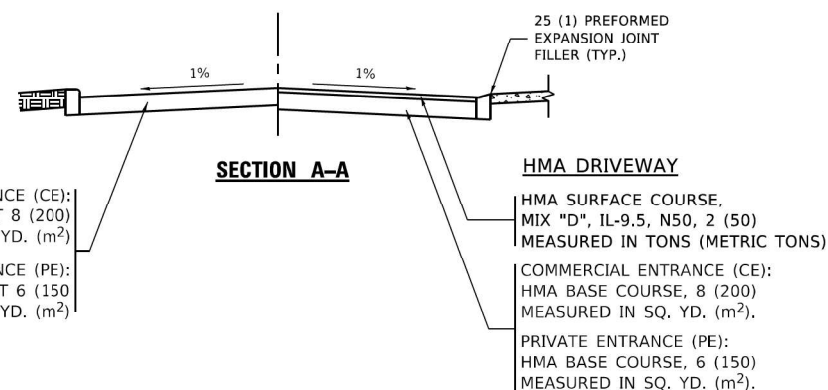


WITH CONCRETE CURB, TYPE B



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.

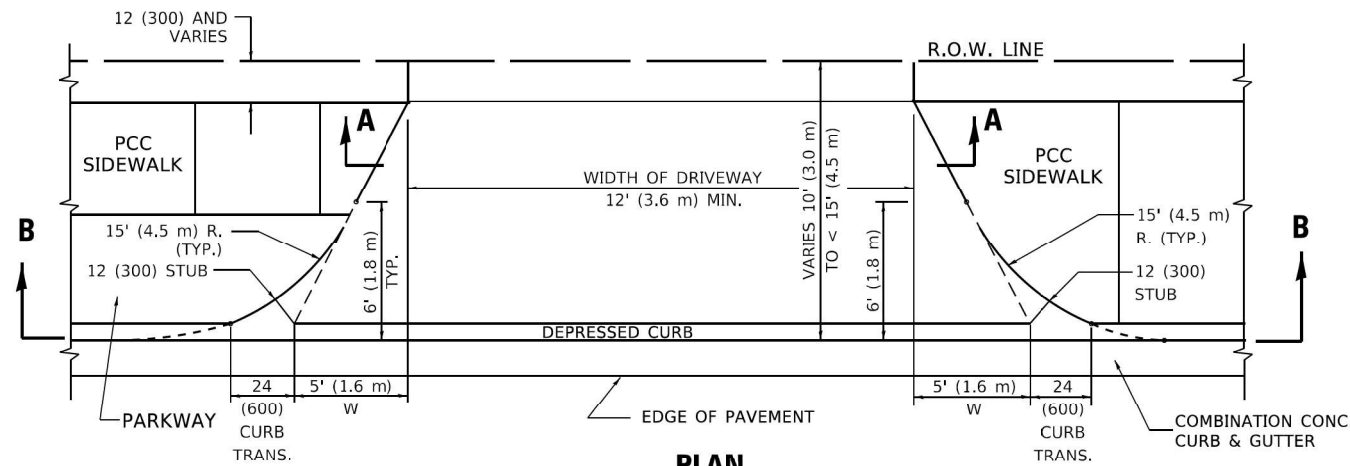
MODEL: Defaulr
 FILE NAME: W:\BASIS\0223\310b01.dgn

USER NAME = demanchelt	DESIGNED - R. SHAH	REVISED - R. BORO 06-11-08
	DRAWN -	REVISED - R. BORO 09-06-11
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - K. SMITH 08-28-19
PLOT DATE = 2/2/2022	DATE - 11-04-95	REVISED - K. SMITH 02-01-22

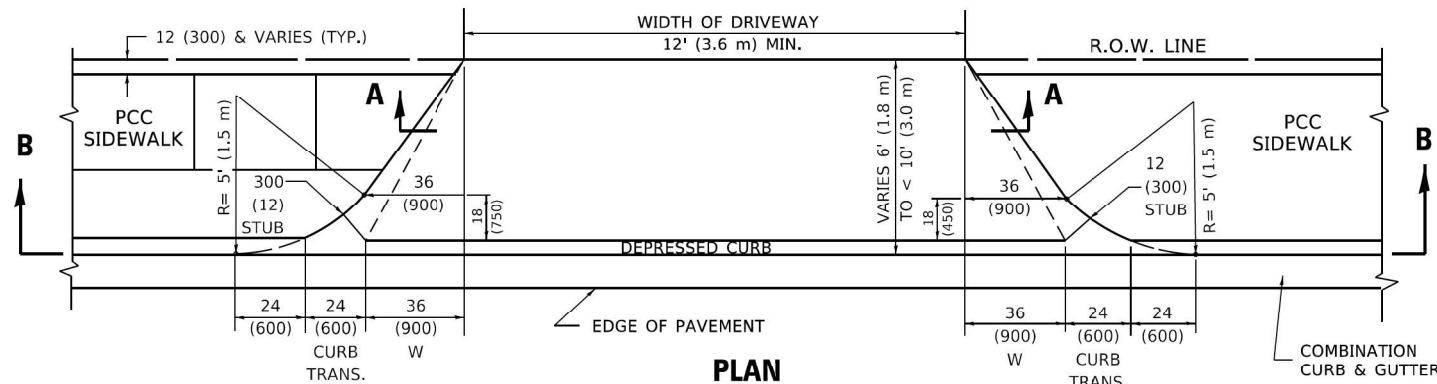
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER ≥ 15'(4.5m)			
SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.	

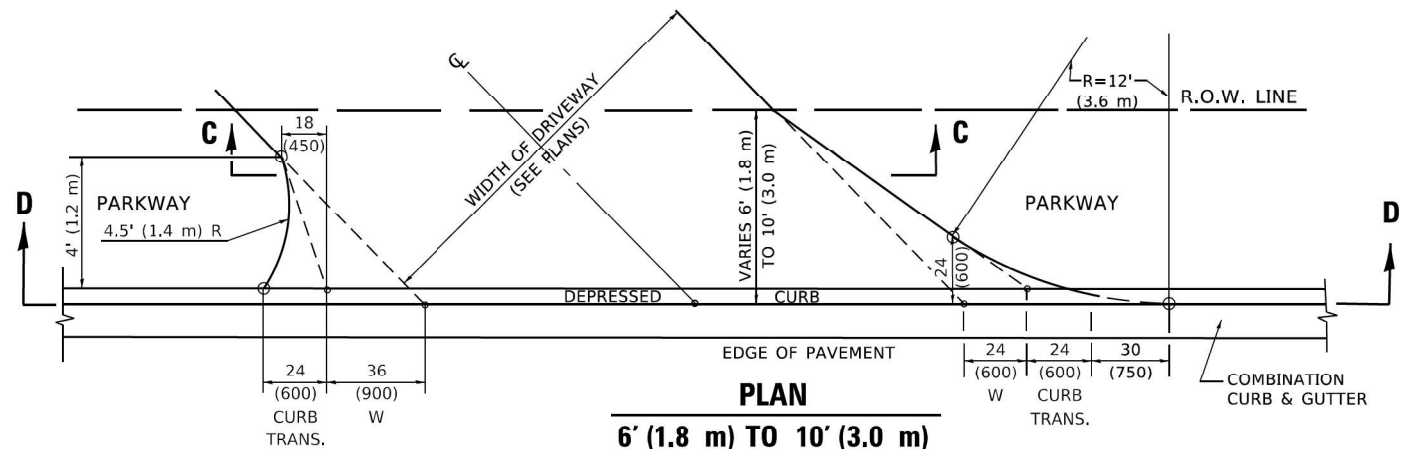
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	233
BD400-01 (BD-01)			CONTRACT NO. 60J10	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



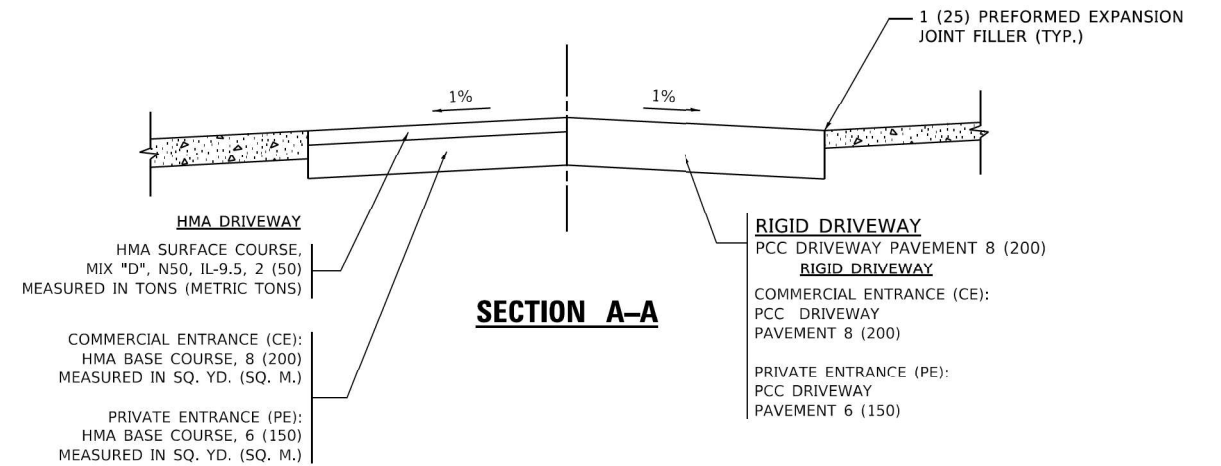
PLAN
10' (3.0 m) TO < 15' (4.5 m)



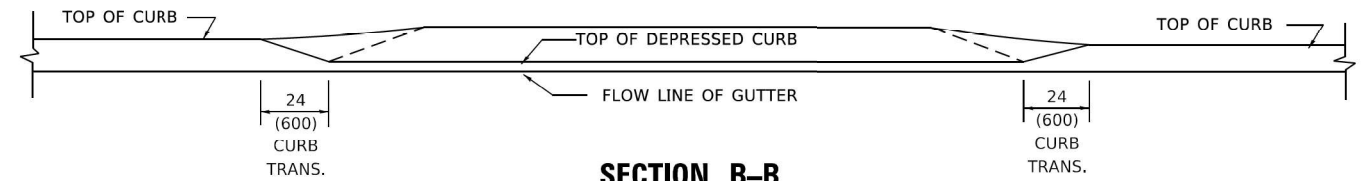
PLAN
6' (1.8 m) TO < 10' (3.0 m)



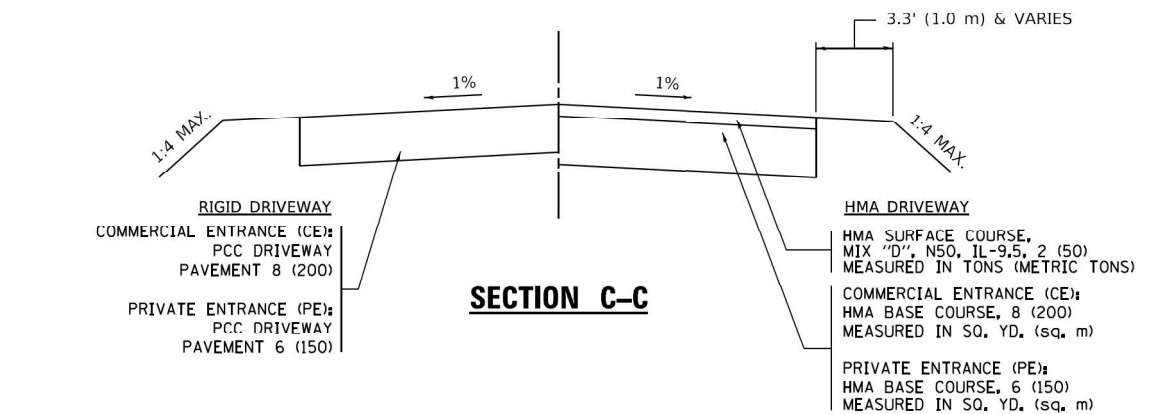
PLAN
6' (1.8 m) TO 10' (3.0 m)



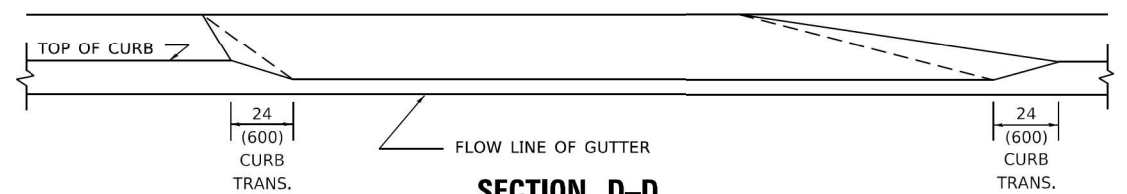
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

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 ILLUSTRATION 10 IN THE PERMIT HANDBOOK. WHERE SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED WITH RIGID PAVEMENT. WHERE NO SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED IN KIND. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.
- WHEN THE DISTANCE BETWEEN R.O.W. AND THE BACK OF CURB IS EQUAL TO OR LESS THAN 8' (2.4 m), THE PCC SIDEWALK SHALL EXTEND TO THE BACK OF CURB.
- "W" VARIES FROM 36 (900) TO 5' (1.5 m) PROPORTIONAL TO THE LENGTH (L), FROM 6' (1.8 m) TO 10' (3 m).

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

MODEL: Defaul
FILE NAME: W:\B1545022\310b02.dgn

USER NAME = demanchelt	DESIGNED - R. SHAH	REVISED - R. BORO 01-01-07
	DRAWN - R. BORO 09-06-11	REVISED - R. BORO 09-06-11
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED - K. SMITH 08-27-19
PLOT DATE = 2/2/2022	DATE - 11-06-95	REVISED - K. SMITH 02-01-22

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DRIVEWAY DETAILS			
DISTANCE BETWEEN ROW AND FACE OF CURB < 15' (4.5m)			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	234
BD400-02 (BD-02)		CONTRACT NO. 60J10		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FRAME EXTENSION INTO PAVEMENT	INNER HOOP REINFORCEMENT DIAMETER	SEMI CIRCULAR FORM DIAMETER	OUTER HOOP REINFORCEMENT DIAMETER
UP TO 8" (200)	3'-6" (1.1 m)	4'-0" (1.2 m)	5'-0" (1.5 m)
> 8" (200) TO 14" (360)	4'-0" (1.2 m)	4'-6" (1.4 m)	5'-0" (1.5 m)

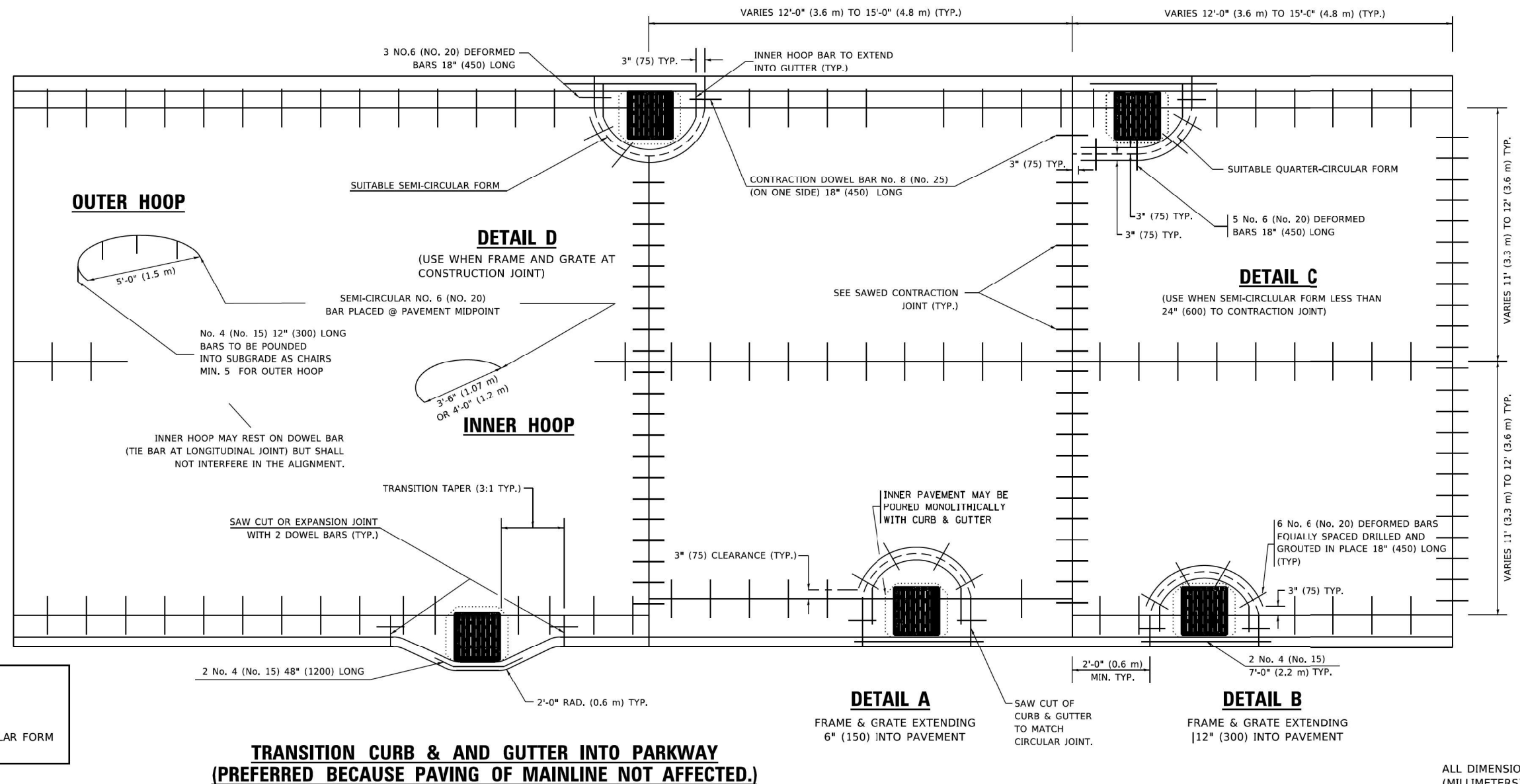
GENERAL NOTES

1. TRANSVERSE JOINTS MAY BE MOVED TO ACCOMMODATE ROUNDOUT, EDGE OF CIRCULAR JOINT SHALL BE MINIMUM 12" (300) FROM TRANSVERSE JOINT. RELOCATED TRANSVERSE JOINT SHALL BE CONTINUOUS FROM EDGE OF PAVEMENT TO EDGE OF PAVEMENT.
2. SEMI-CIRCULAR FORM SHALL BE REMOVED PRIOR TO DRILL AND GROUT OF TIE BARS.
3. ALL REINFORCED BARS SHALL BE EPOXY COATED.
4. DRILL AND GROUT IS PREFERRED, HOWEVER TIE BARS CAN BE POURED IN PLACE IF CLEARANCE IS PROVIDED TO OUTER EDGE OF FRAME. MINIMUM 2" (50) CLEARANCE.
5. WOOD SHIMS SHALL BE USED TO ADJUST ALL FRAMES. AFTER ADJUSTING MORTAR HAS CURED, THE WOOD SHIMS SHALL BE REMOVED AND THE VOIDS UNDER THE FRAMES FILLED WITH NON SHRINK GROUT.
6. HOOP REINFORCEMENT SHALL BE ONE PIECE CONSTRUCTION.
7. CIRCULAR FRAMES AND GRATES MAY BE SUBSTITUTED.
8. CURB DOWELS MUST BE PLACED LEVEL & TRUE TO ALLOW CONTRACTION MOVEMENT.

BASIS OF PAYMENT

1. THE ROUNDOUT AND ADDED REINFORCEMENT WILL NOT BE PAID SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE PAVEMENT.

DESIGNER NOTE
THIS DETAIL IS TO BE USED WHEN THE GUTTER FLAG IS LESS THAN 24"



LEGEND	
.....	CASTING
-----	SUITABLE SEMI-CIRCULAR FORM

**TRANSITION CURB & AND GUTTER INTO PARKWAY
(PREFERRED BECAUSE PAVING OF MAINLINE NOT AFFECTED.)**

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED

MODEL: Defaul... FILE NAME: W:\BASIS\0223\10b48.dgn

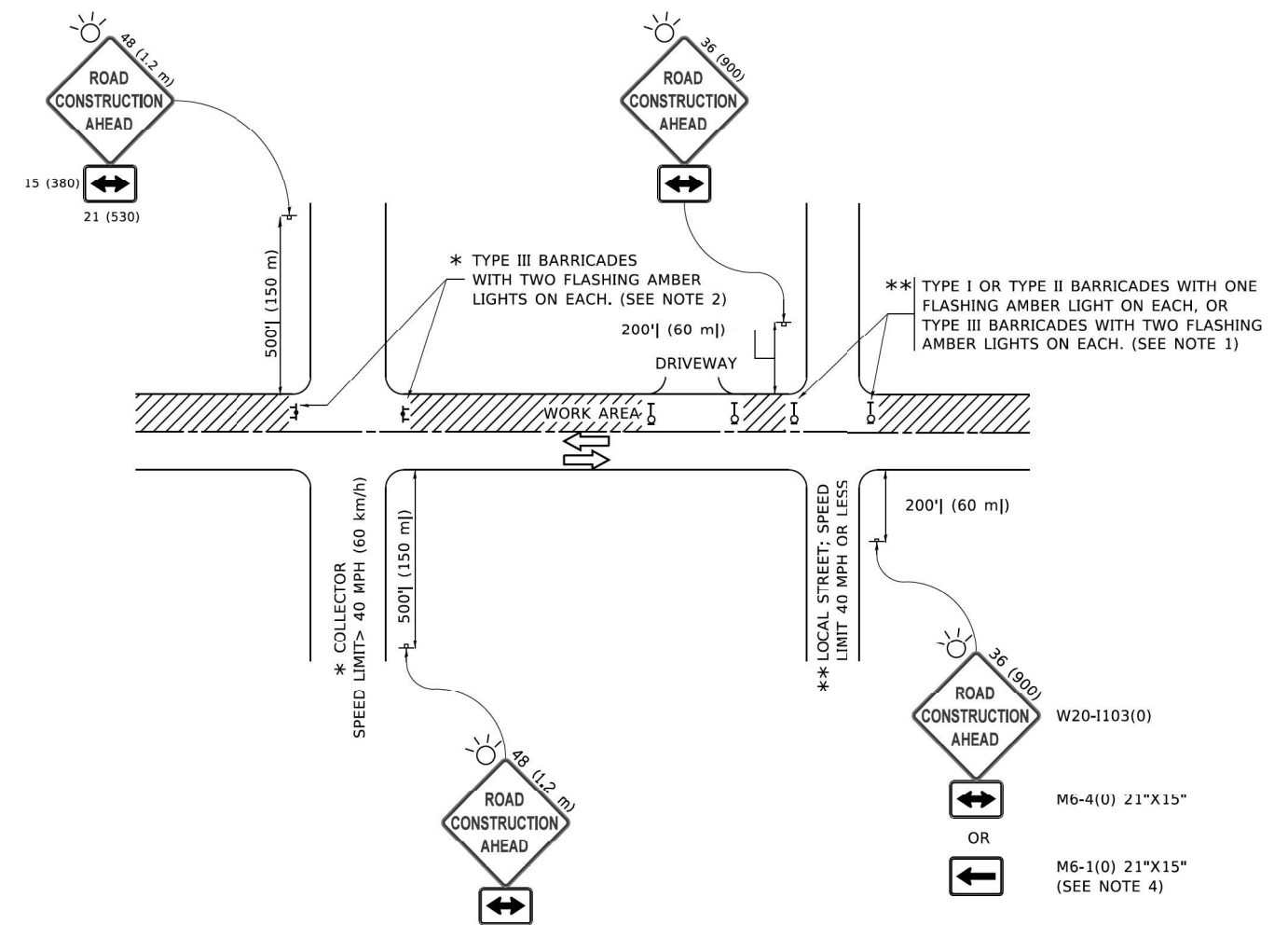
USER NAME = demanchelt	DESIGNED - A. ABBAS	REVISED - T. MATOUSEK 10-02-00
	DRAWN - TOM MATOUSEK	REVISED - T. MATOUSEK 04-25-02
PLOT SCALE = 100.0000' / 1in.	CHECKED - A. ABBAS	REVISED - P. LAFLEUR 08-27-02
PLOT DATE = 2/2/2022	DATE - 01-04-99	REVISED - K. SMITH 02-01-22

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PCC PAVEMENT ROUNDOUTS AT
CURB AND GUTTER

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	235
BD-48			CONTRACT NO. 60J10	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

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

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

NOTE: Default: FILE NAME: p:\u0048\BID\NTEG\Illinois.gov\PIWDOT\Documents\DOT Offices\District 1\Projects\Dist5\23232\CAD\Drawings\CAD\Sheet11.cad

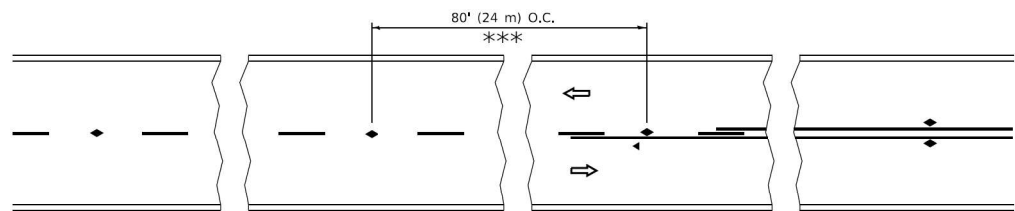
USER NAME = footemj	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
	DRAWN -	REVISED - T. RAMMACHER 01-06-00
PLOT SCALE = 50,0000 ' / ft.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
PLOT DATE = 3/4/2019	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

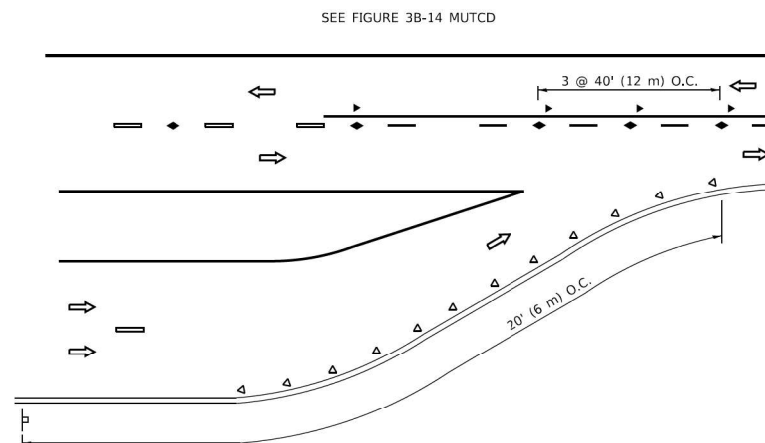
**TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

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

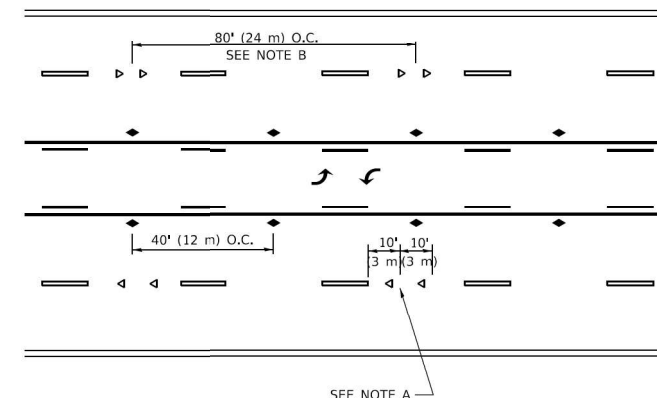
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	236
TC-10			CONTRACT NO. 60J10	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



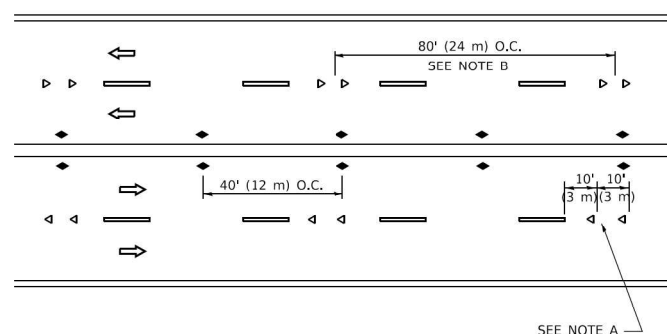
TWO-LANE/TWO-WAY



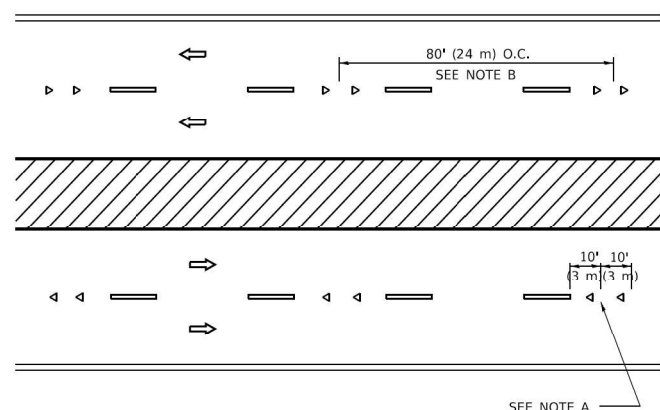
LANE REDUCTION TRANSITION



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

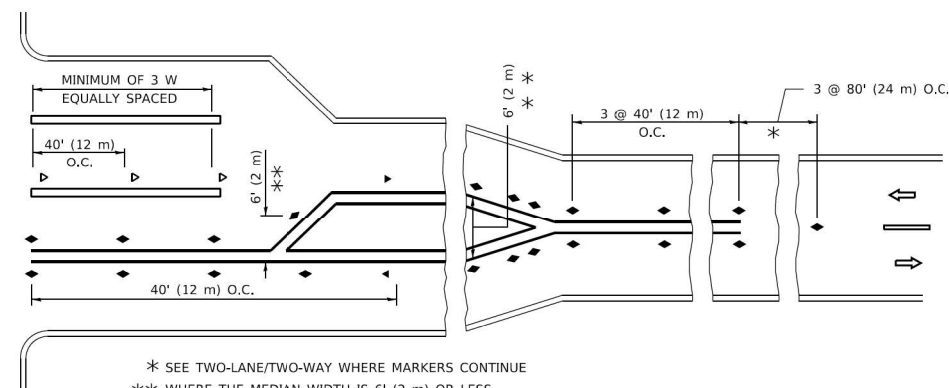
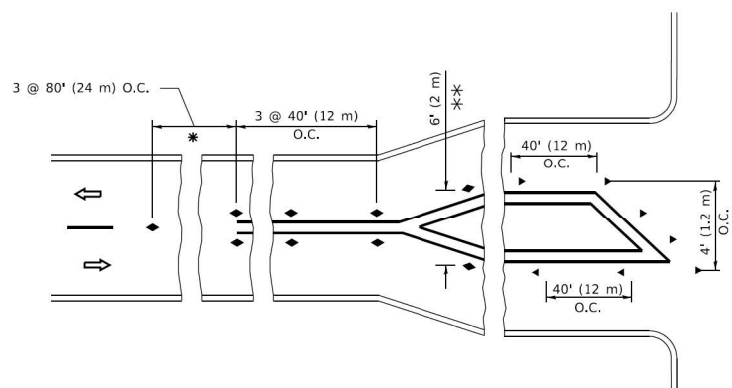
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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.

NODE: Default
 FILE NAME: p:\u0008\BENTLEY\Illinois.gov\PIVOT\Documents\DOT Offices\District 1\Projects\Dist5273-24\CADD\Dist1\CAD\Sheet1.ctb

USER NAME = footemj	DESIGNED -	REVISED - T. RAMMACHER 03-12-99
	DRAWN -	REVISED - T. RAMMACHER 01-06-00
PLOT SCALE = 50,0000' / 1"	CHECKED -	REVISED - C. JUCIUS 09-09-09
PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 07-01-13

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TYPICAL APPLICATIONS
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	237
TC-11			CONTRACT NO.	
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

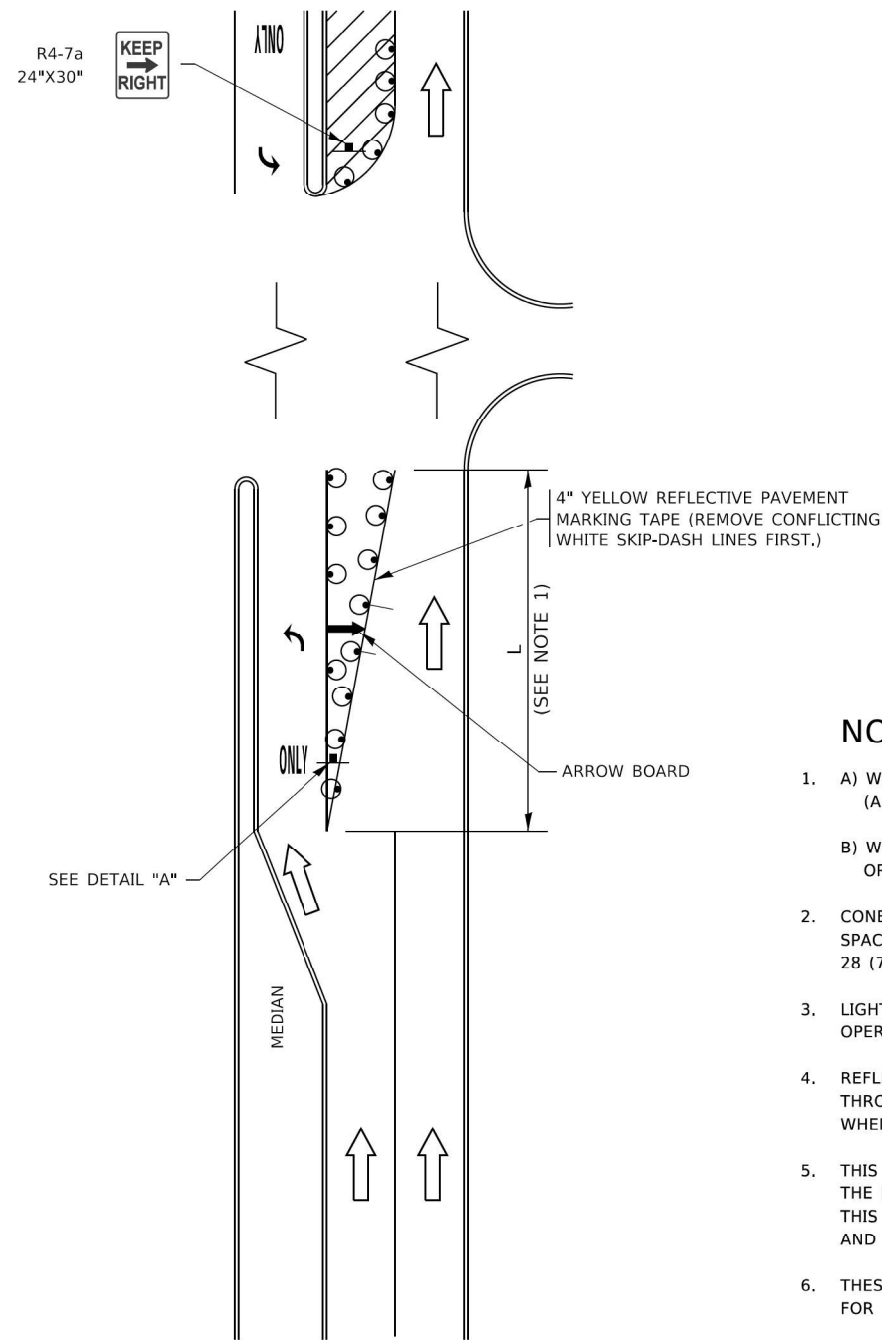


FIGURE 1

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

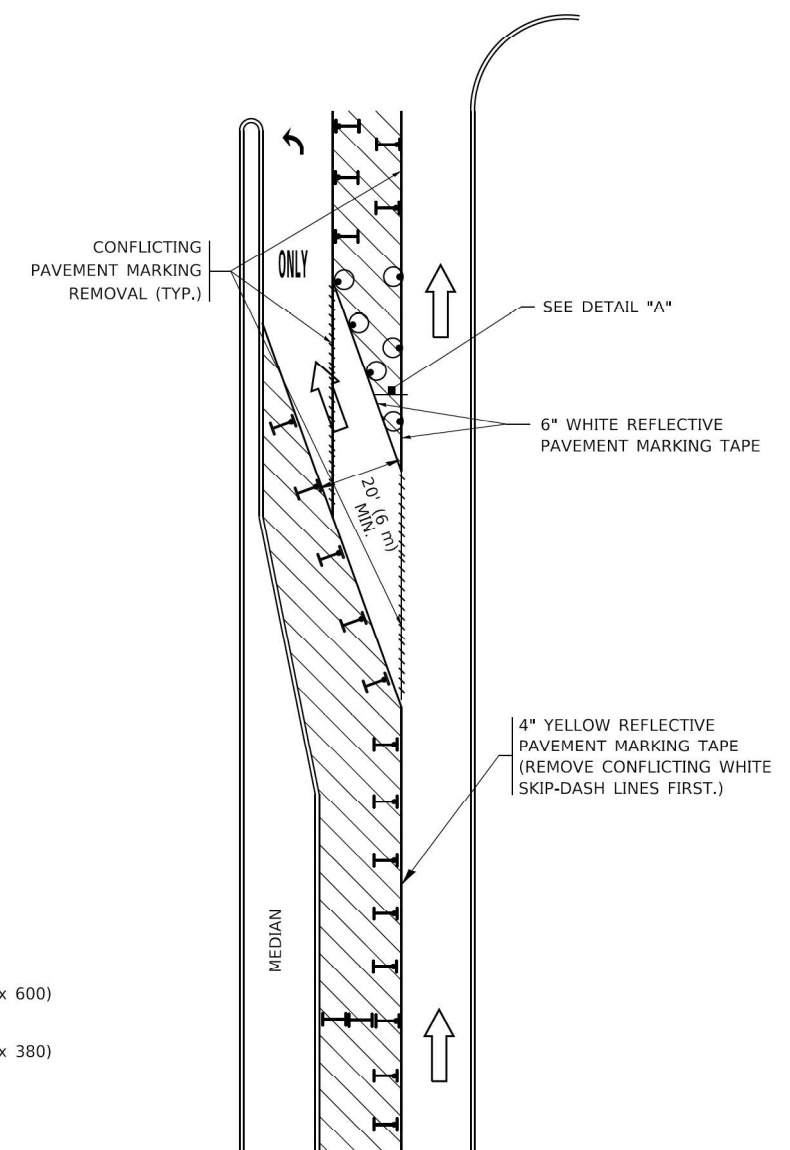


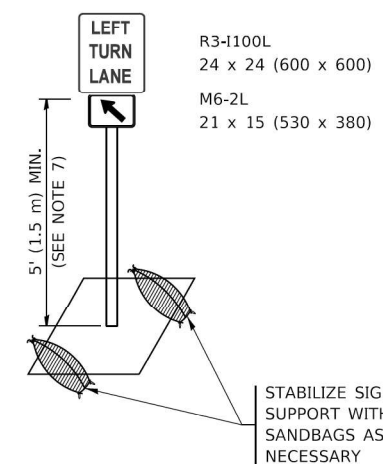
FIGURE 2

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" R3-1100R 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.

MODEL: Default
 FILE NAME: p:\01\08\BENTLEY\Illinois\p\WIDOT\Documents\DOT Offices\District 1\Projects\Dist5\232321\CADD\NA\CAD\sheet14.dgn

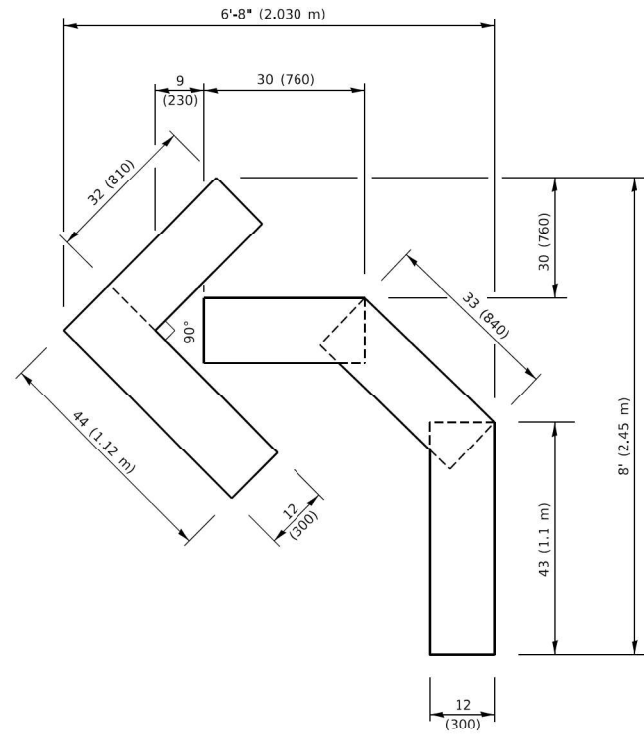
USER NAME = footemj	DESIGNED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09
	DRAWN - A. HOUSEH 11-07-95	REVISED - A. SCHUETZE 07-01-13
PLOT SCALE = 50,0000' / 1"	CHECKED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16
PLOT DATE = 3/4/2019	DATE - T. RAMMACHER 01-06-00	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)**

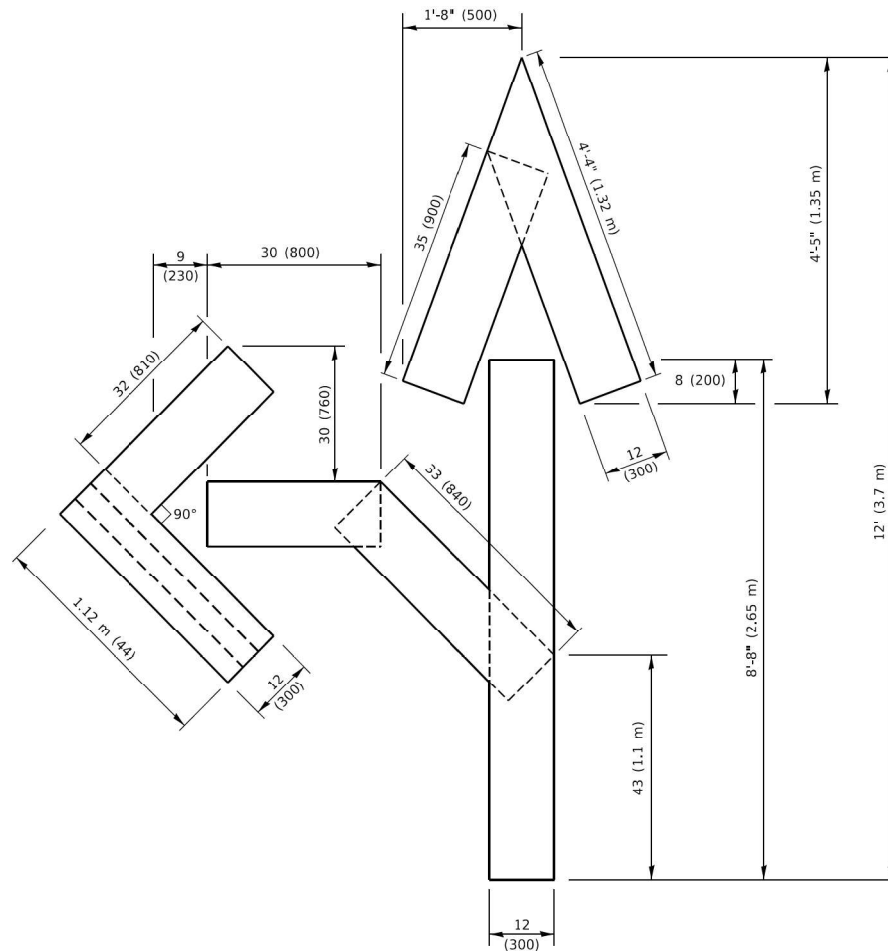
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	239
TC-14			CONTRACT NO. 60J10	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



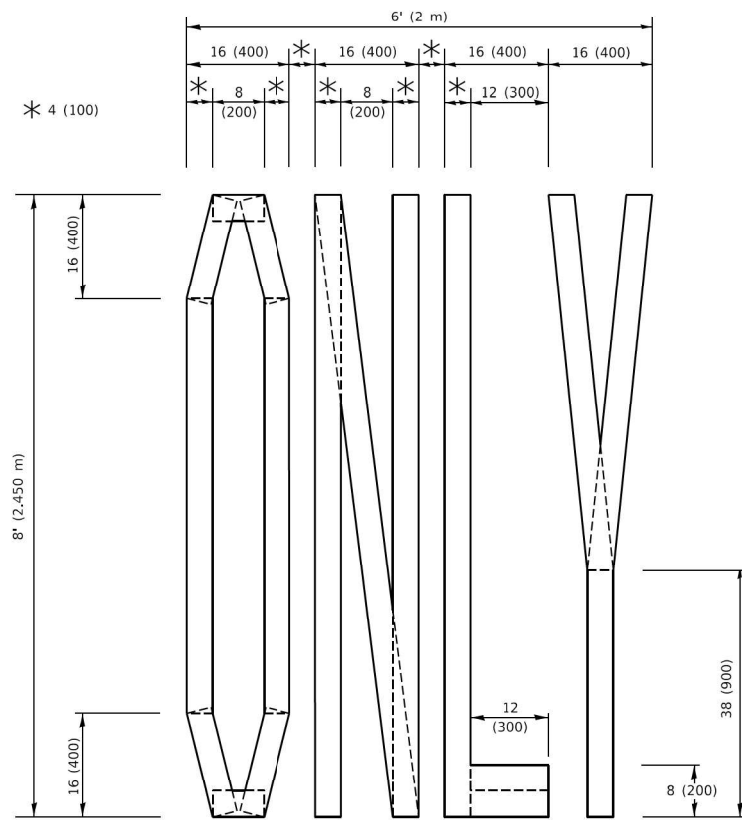
QUANTITY

4 (100) LINE = 45.5 ft. (13.9 m)
15.2 sq. ft. (1.41 sq. m)



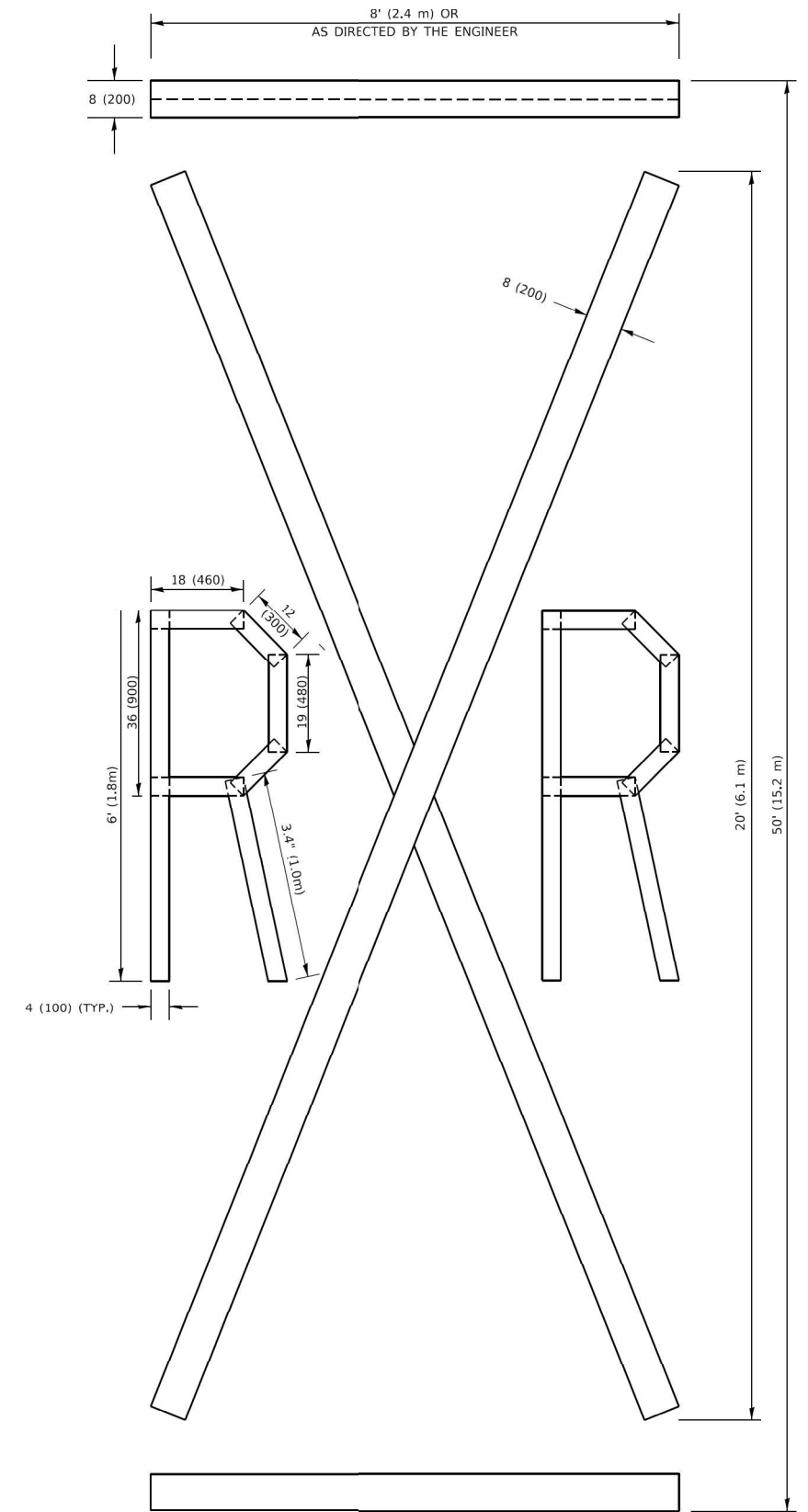
QUANTITY

4 (100) LINE = 82.5 ft. (25.1 m)
27.5 sq. ft. (2.53 sq. m)



QUANTITY

4 (100) LINE = 64.1 ft. (19.5 m)
21.4 sq. ft. (1.99 sq. m)



QUANTITY

4 (100) LINE = 225.9 ft. (68.9 m)
75.3 sq. ft. (6.99 sq. m)

NOTE:

ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.

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

MODEL: Defaulr
FILE NAME: P:\11\08\FEB\NTEG\Illinois.gov\PIV\DOT\Documents\DOT Offices\District 1\Projects\Dist\22\24\CAD\Drawn\CAD\Drawn\16.cgn

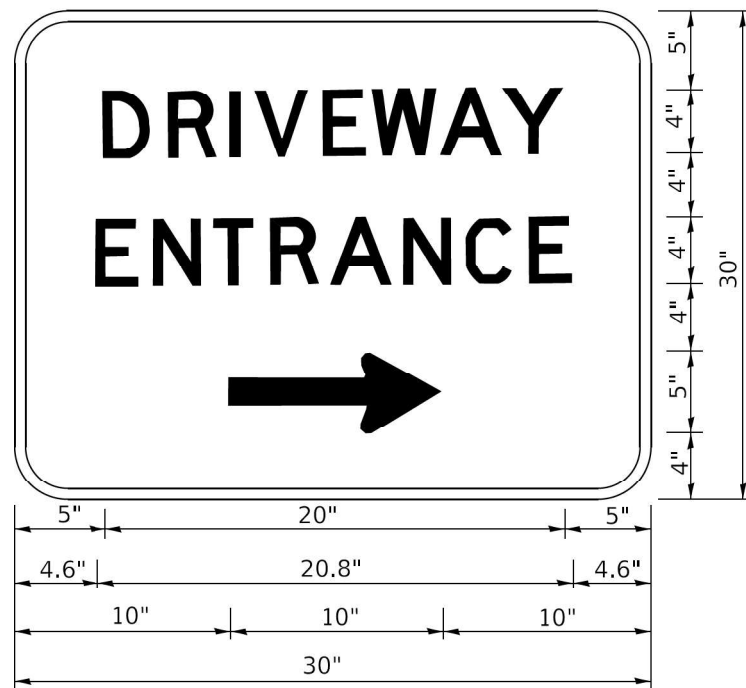
USER NAME = footemj	DESIGNED -	REVISED - T. RAMMACHER 03-02-98
	DRAWN -	REVISED - E. GOMEZ 08-28-00
PLOT SCALE = 50.0068" / in.	CHECKED -	REVISED - E. GOMEZ 08-28-00
PLOT DATE = 3/4/2019	DATE - 09-18-94	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	240
TC-16			CONTRACT NO.	
FED. ROAD DIST. NO. 1 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: Default
 FILE NAME: p:\pubplan\com.edt_illinois.gov\PIW\DOT\Documents\DOT_Offices\IDistrict_1\Projects\IDHS427231\CAD\Drawn\CAD\Sheet1226.dgn

USER NAME = leysa	DESIGNED -	REVISED - C. JUCIUS 02-15-07
	DRAWN -	REVISED -
PLOT SCALE = 50,0000' / 1/4"	CHECKED -	REVISED -
PLOT DATE = 8/6/2021	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DRIVEWAY ENTRANCE SIGNING

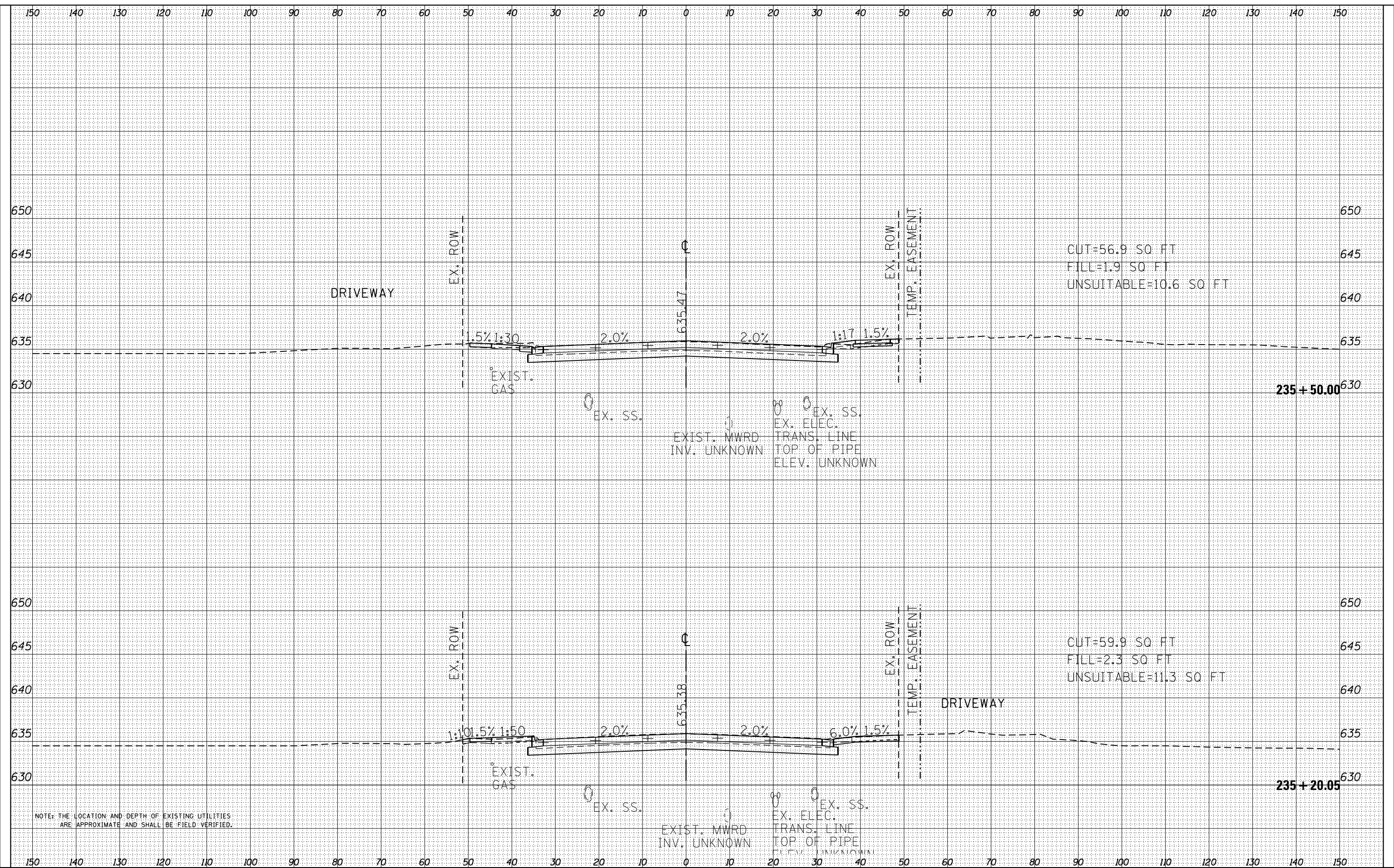
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	242
TC-26			CONTRACT NO. 60J10	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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

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

FILE NAME = D:\6010-eh-t-rash-20.dgn



NOTE: THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.



USER NAME =	EtzwieE
DESIGNED -	MXF
DRAWN -	MJM
CHECKED -	JRS
DATE -	01/10/2024

REVISED -	
REVISED -	
REVISED -	
REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RAND ROAD CROSS SECTIONS

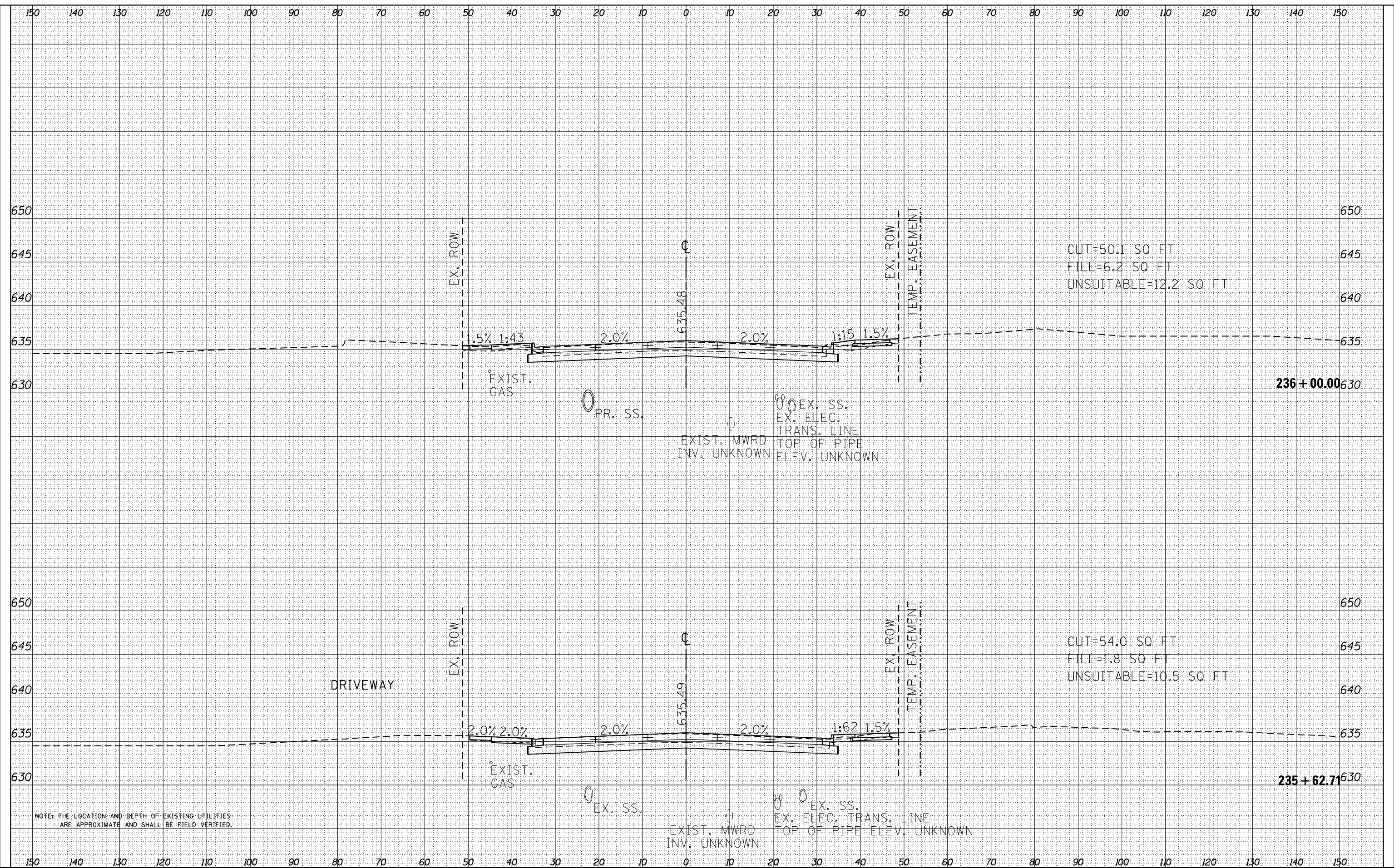
SCALE: 1"=10'H/1"=5'V SHEET 2 OF 25 SHEETS STA. 235+20.05 TO STA. 235+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	244
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				

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

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

FILE NAME = D:\6010-eh-t-rash-2020.dgn



NOTE: THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.



USER NAME = EtwileE	DESIGNED - MXF	REVISED -
	DRAWN - MJM	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - JRS	REVISED -
PLOT DATE = 3/18/2024	DATE - 01/10/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RAND ROAD CROSS SECTIONS

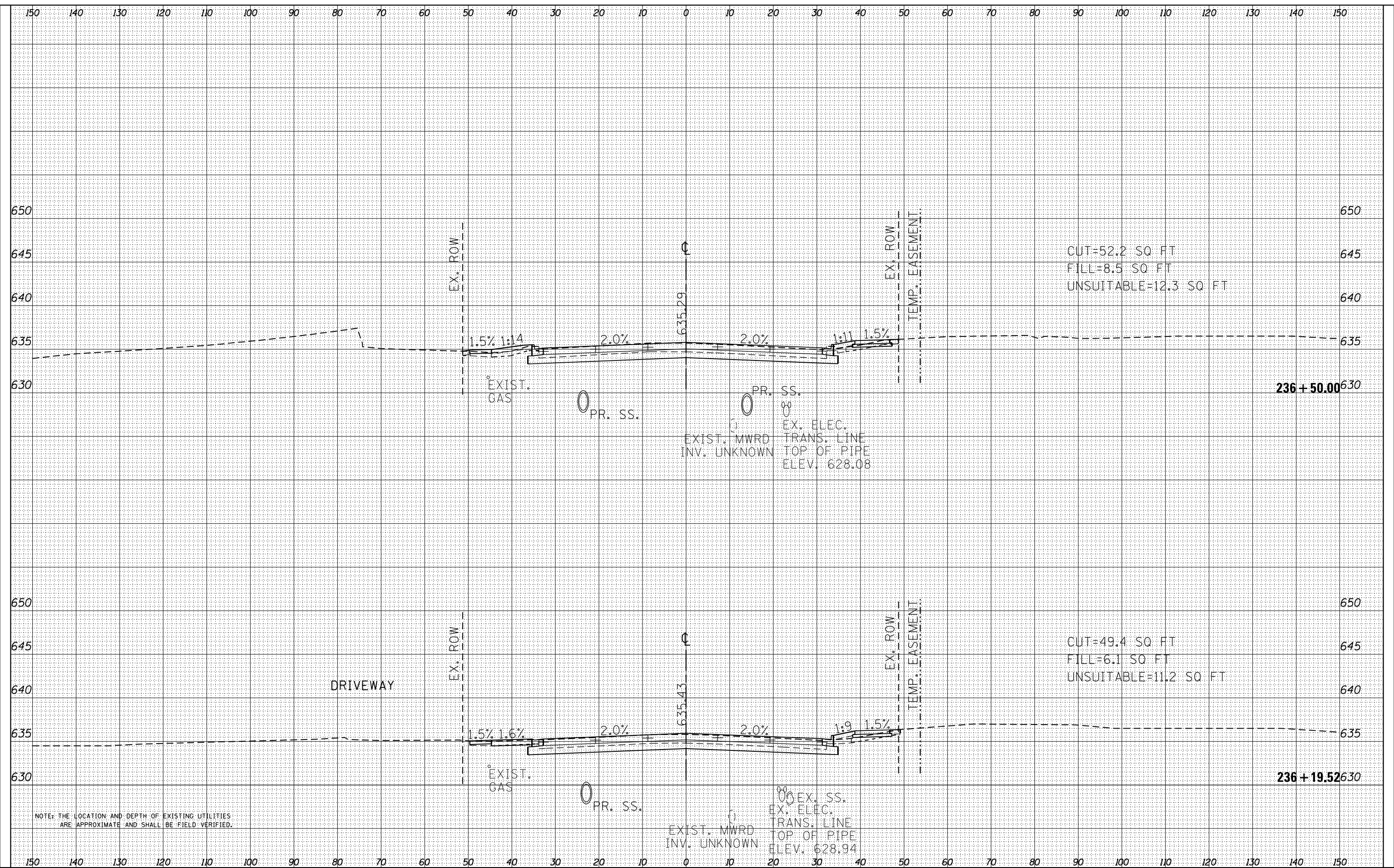
SCALE: 1"=10'H/1"=5'V SHEET 3 OF 25 SHEETS STA. 235+62.71 TO STA. 236+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	245
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				

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

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

FILE NAME = D:\6010-eh-t-rash-20.dgn



NOTE: THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.



USER NAME = EtwileE	DESIGNED - MXF	REVISED -
	DRAWN - MJM	REVISED -
	CHECKED - JRS	REVISED -
	DATE - 01/10/2024	REVISED -
PLOT SCALE = 20.0000' / in.		
PLOT DATE = 3/18/2024		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RAND ROAD CROSS SECTIONS

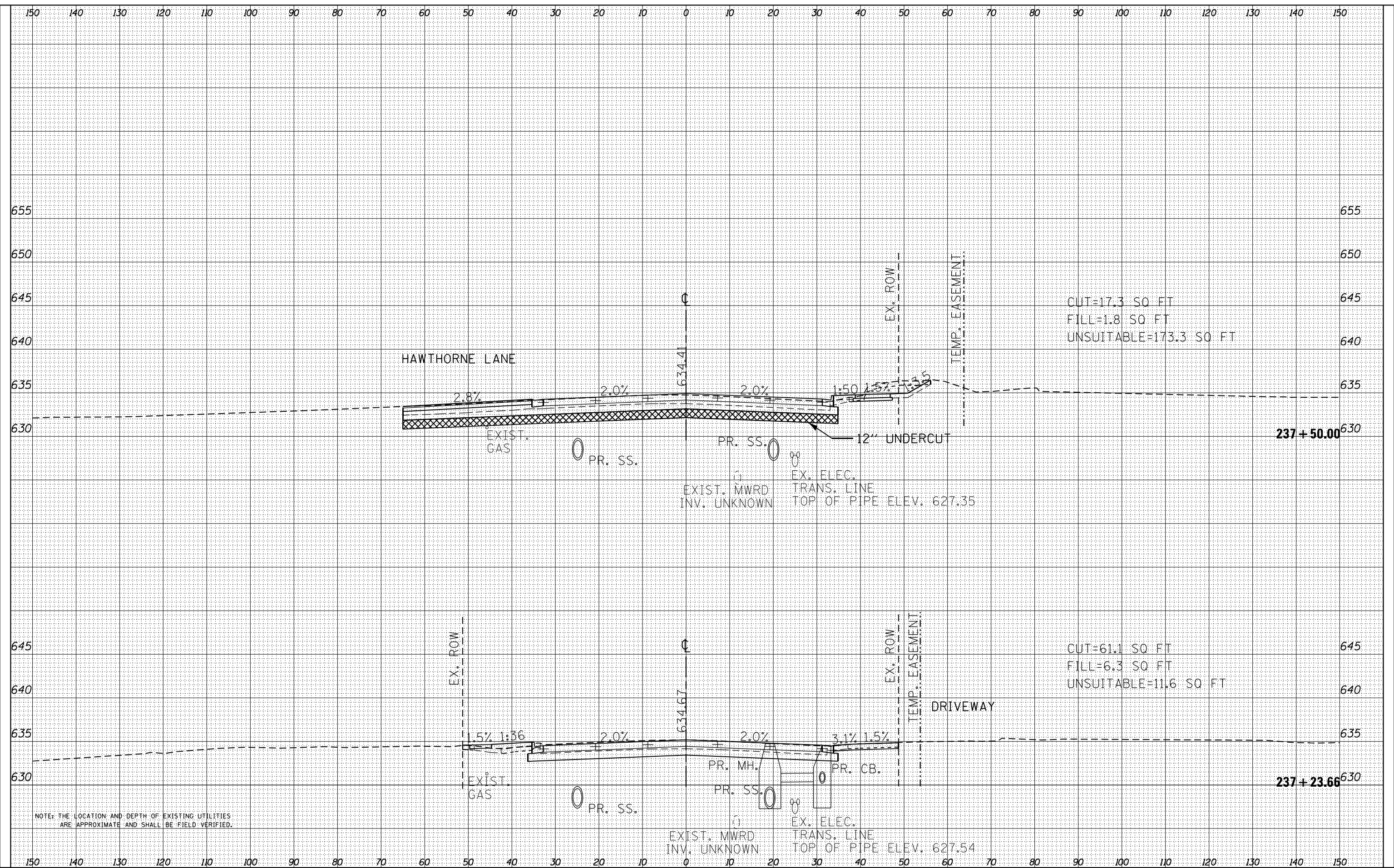
SCALE: 1"=10'H/1"=5'V SHEET 4 OF 25 SHEETS STA. 236+19.52 TO STA. 236+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	246
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				

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

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

FILE NAME = D:\6010-rtt-rash-2024.dgn



NOTE: THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.



USER NAME = EtwileE	DESIGNED - MXF	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - MJM	REVISED -
PLOT DATE = 3/18/2024	CHECKED - JRS	REVISED -
	DATE - 01/10/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RAND ROAD CROSS SECTIONS

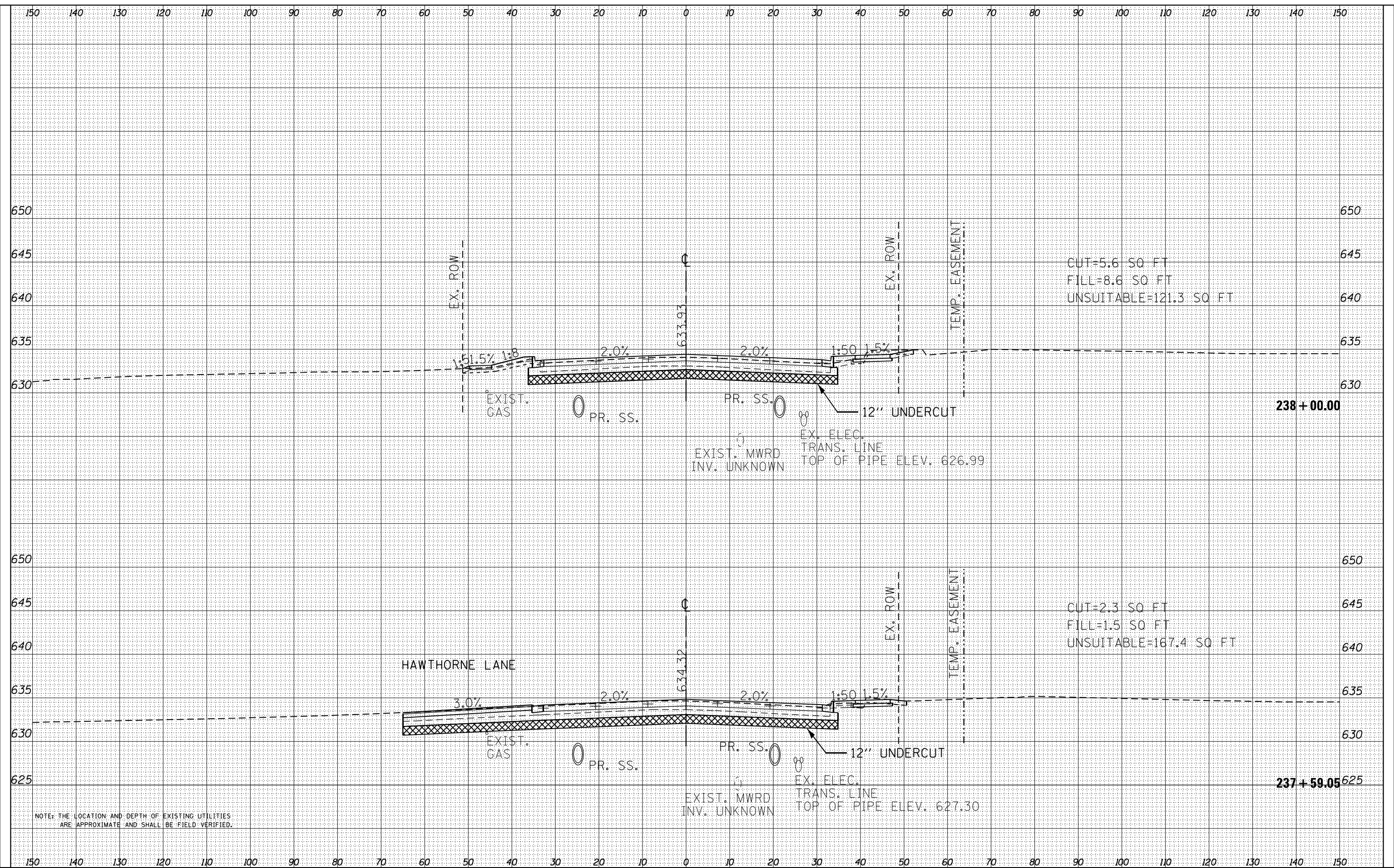
SCALE: 1"=10'H/1"=5'V SHEET 6 OF 25 SHEETS STA. 237+23.66 TO STA. 237+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	248
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
PLOTTED	
TEMPLATE	
NO. BOOK	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
NO. BOOK	
AREAS CHECKED	

FILE NAME = D:\6010-hh-cash-201.dgn



NOTE: THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.



USER NAME = EtwileE	DESIGNED - MXF	REVISED -
PLLOT SCALE = 20.0000' / in.	DRAWN - MJM	REVISED -
PLLOT DATE = 3/18/2024	CHECKED - JRS	REVISED -
	DATE - 01/10/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

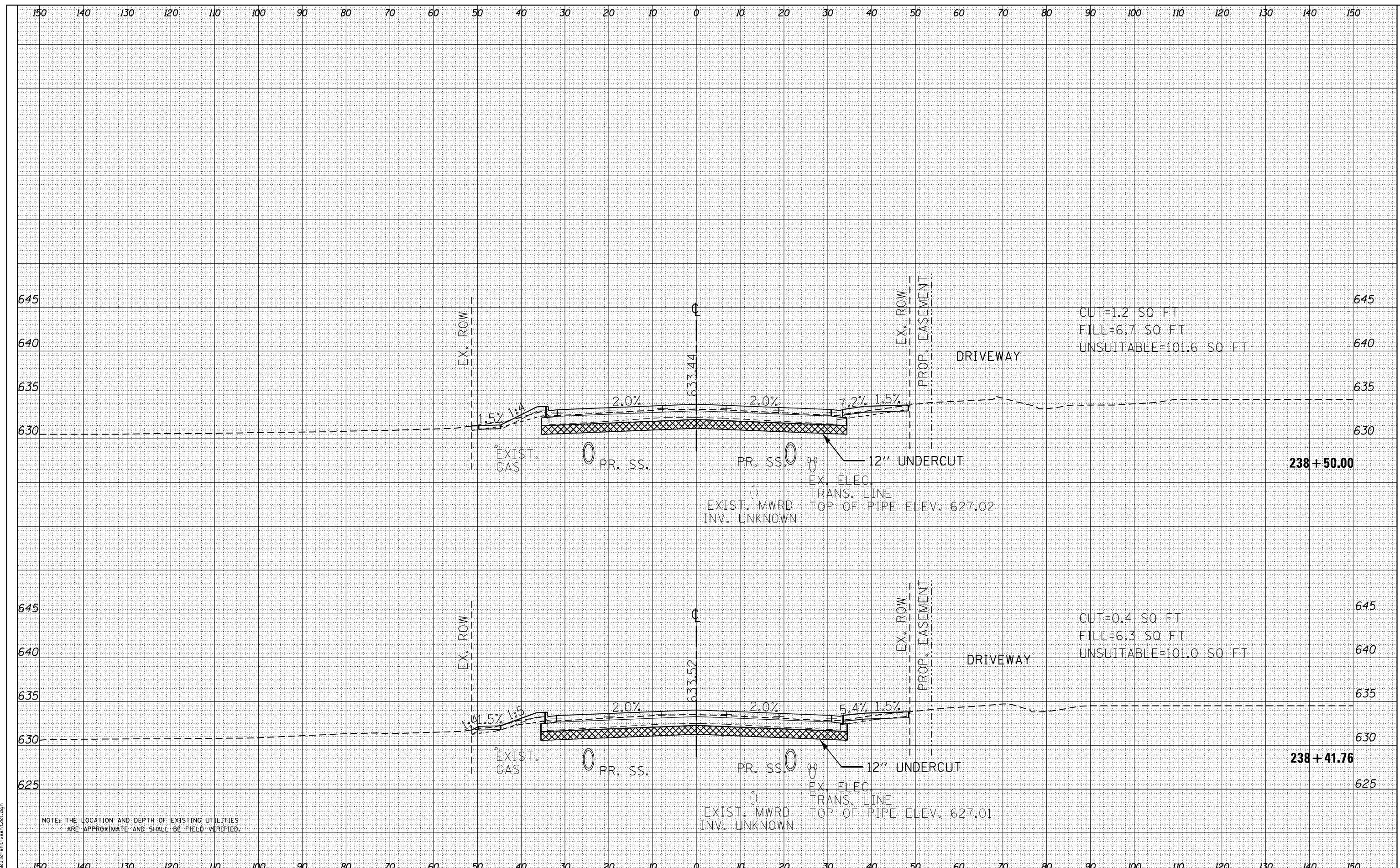
RAND ROAD CROSS SECTIONS

SCALE: 1"=10'H/1"=5'V SHEET 7 OF 25 SHEETS STA. 237+59.05 TO STA. 238+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	249
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				

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

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



NOTE: THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.

FILE NAME = D:\6010-shh-rash-201.dgn



USER NAME = EtwileE	DESIGNED - MXF	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - MJM	REVISED -
PLOT DATE = 3/18/2024	CHECKED - JRS	REVISED -
	DATE - 01/10/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RAND ROAD CROSS SECTIONS

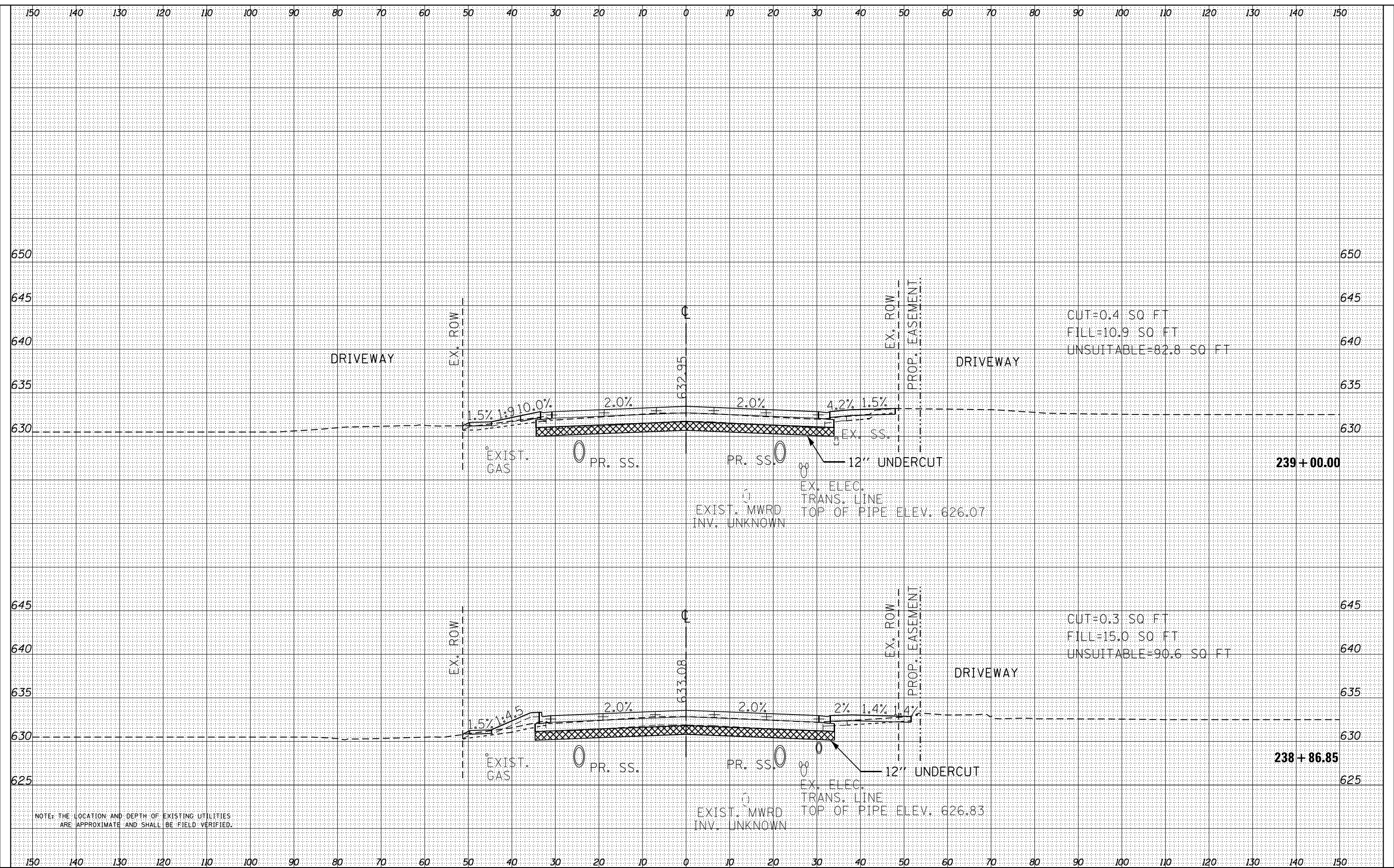
SCALE: 1"=10'H/1"=5'V SHEET 8 OF 25 SHEETS STA. 238+41.76 TO STA. 238+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	250
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				

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

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

FILE NAME = D:\6010-ht-rash-20.dgn



NOTE: THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.



USER NAME = EtwileE	DESIGNED - MXF	REVISED -
	DRAWN - MJM	REVISED -
	CHECKED - JRS	REVISED -
	DATE - 01/10/2024	REVISED -
PLOT SCALE = 20.0000' / in.		
PLOT DATE = 3/18/2024		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

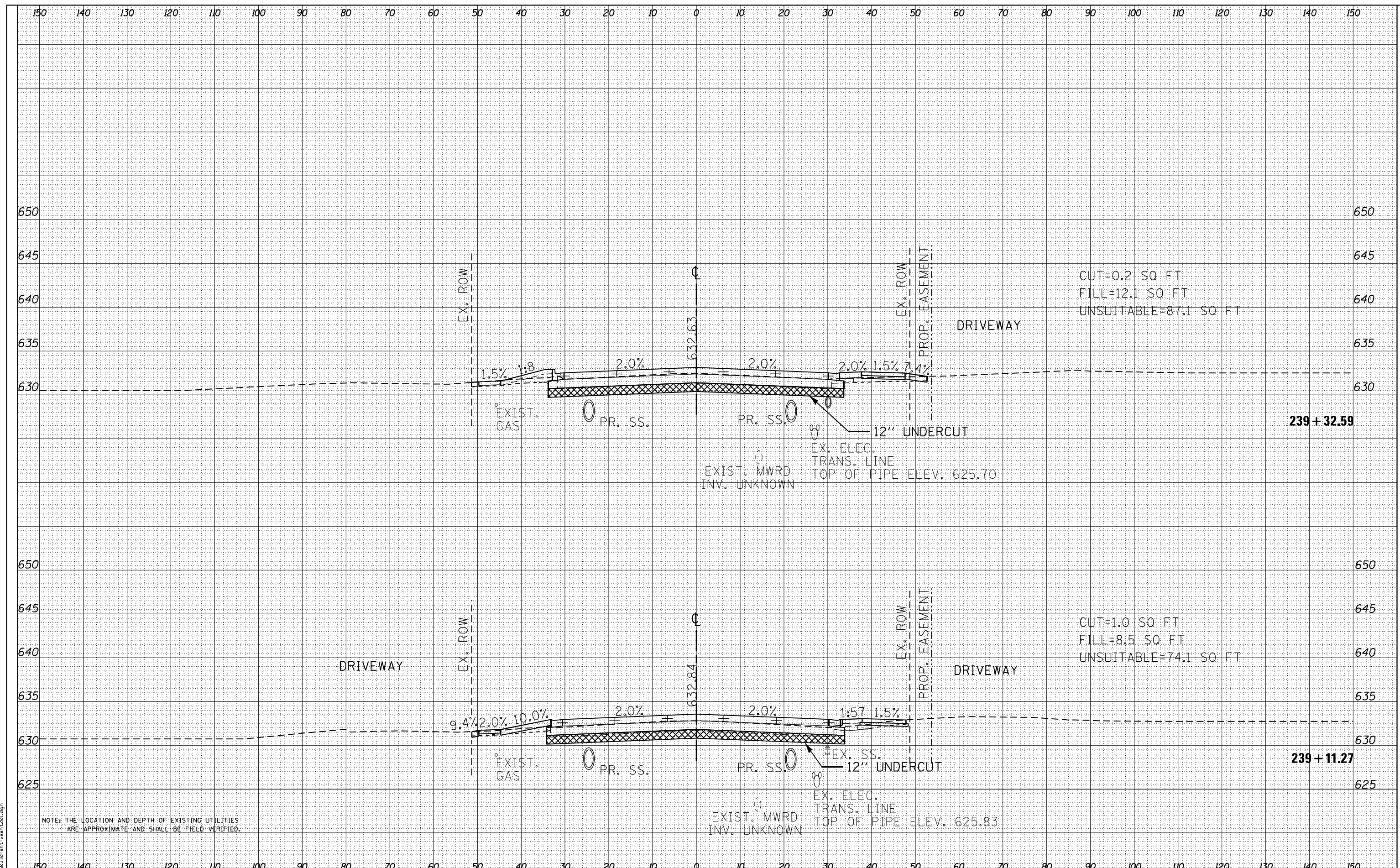
RAND ROAD CROSS SECTIONS

SCALE: 1"=10'H/1"=5'V SHEET 9 OF 25 SHEETS STA. 238+86.85 TO STA. 239+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	251
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				

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

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



NOTE: THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.

FILE NAME = D:\6010-eh-t-rash-201.dgn



USER NAME = EtwileE	DESIGNED - MXF	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - MJM	REVISED -
PLOT DATE = 3/18/2024	CHECKED - JRS	REVISED -
	DATE - 01/10/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

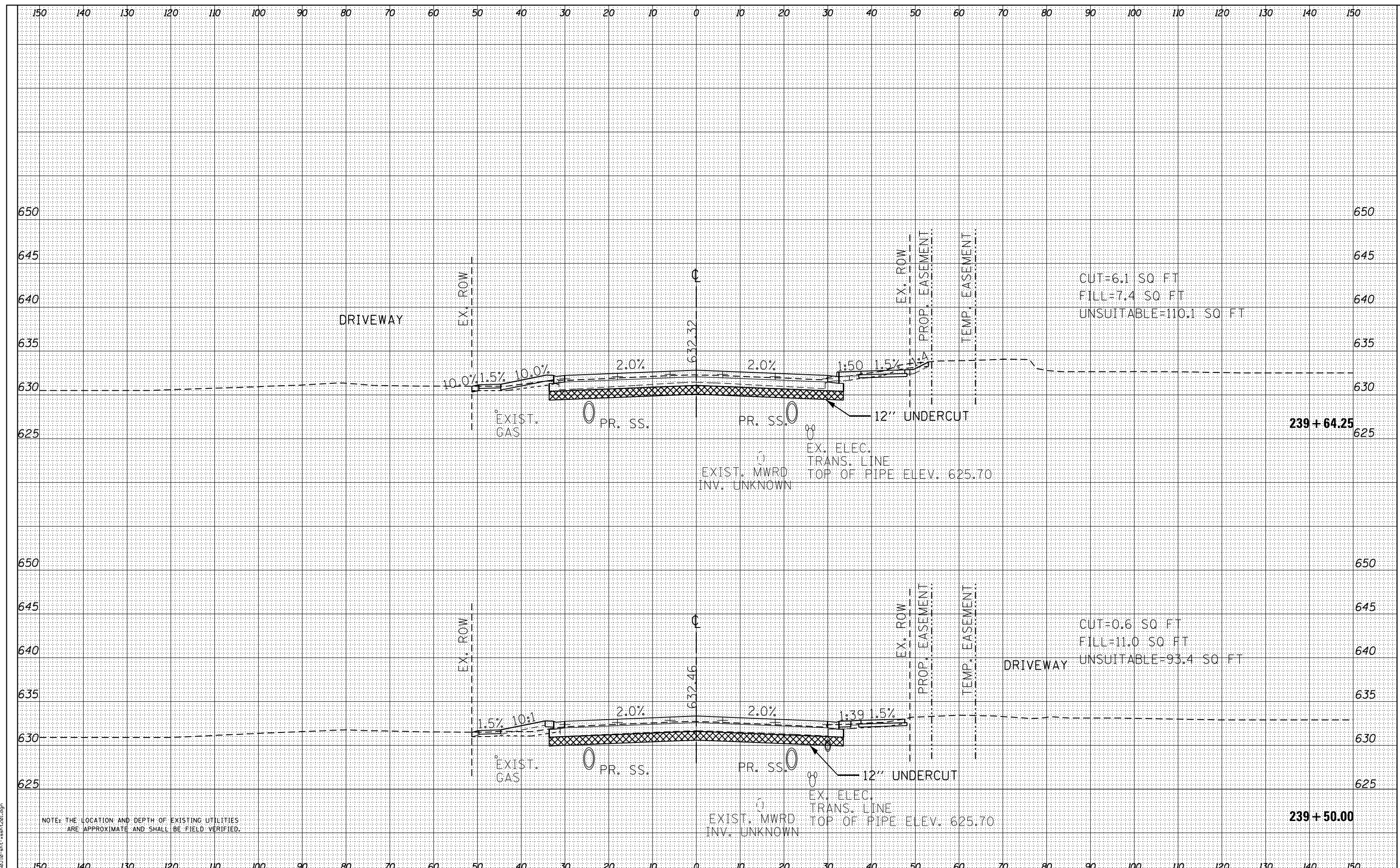
RAND ROAD CROSS SECTIONS

SCALE: 1"=10'H/1"=5'V SHEET 10 OF 25 SHEETS STA. 239+11.27 TO STA. 239+32.59

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	252
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				

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

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



NOTE: THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.

FILE NAME = D:\6010-shh-rash-2024.dgn



USER NAME = EtwileE	DESIGNED - MXF	REVISED -
PLLOT SCALE = 20.0000' / in.	DRAWN - MJM	REVISED -
PLLOT DATE = 3/18/2024	CHECKED - JRS	REVISED -
	DATE - 01/10/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

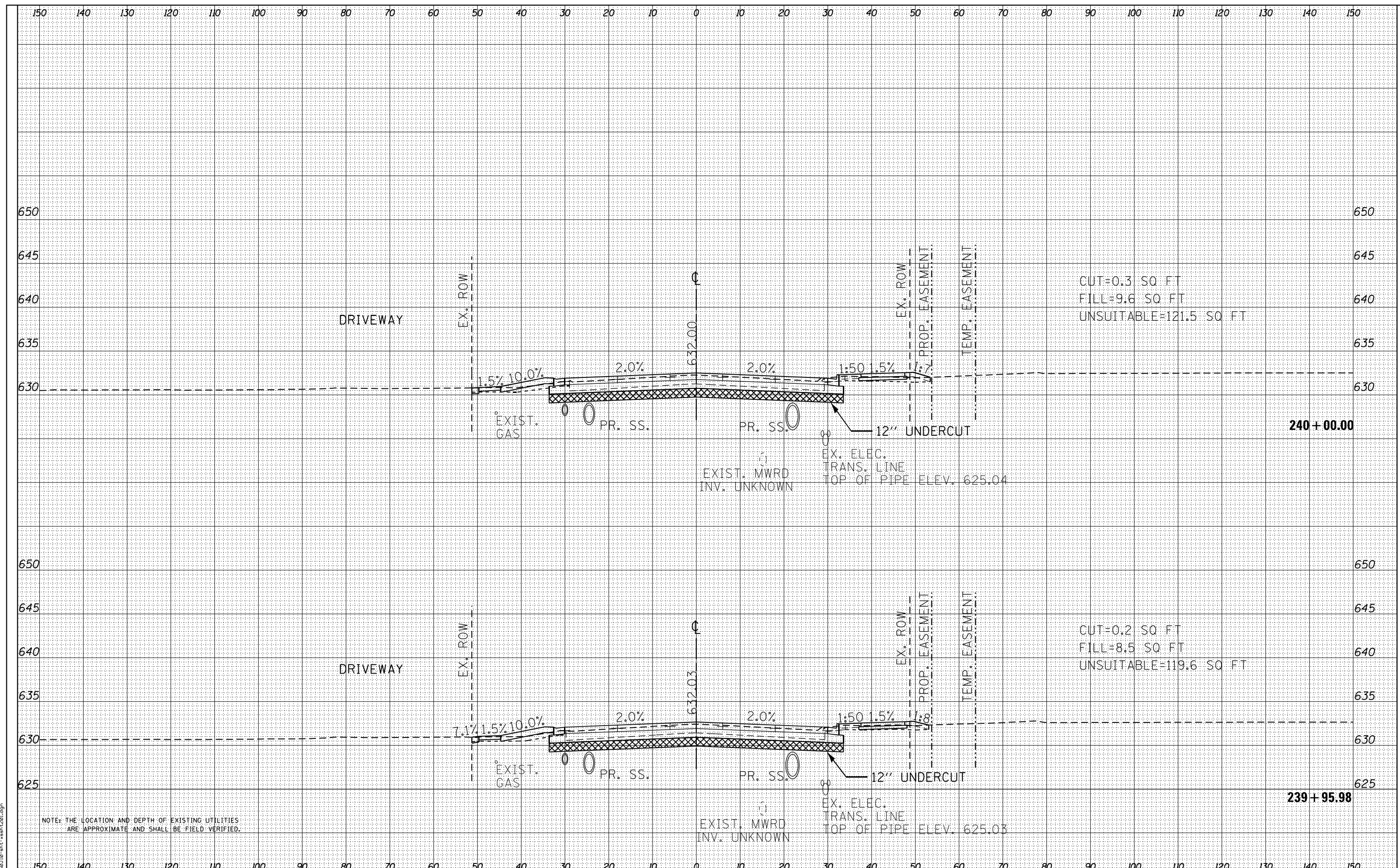
RAND ROAD CROSS SECTIONS

SCALE: 1"=10'H/1"=5'V SHEET 11 OF 25 SHEETS STA. 239+50.00 TO STA. 239+64.25

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	253
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				

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

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



NOTE: THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.

FILE NAME = D:\6010-shh-rash-2024.dgn



USER NAME =	EtzwieE
DESIGNED -	MXF
DRAWN -	MJM
CHECKED -	JRS
DATE -	01/10/2024

REVISED -	
REVISED -	
REVISED -	
REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RAND ROAD CROSS SECTIONS

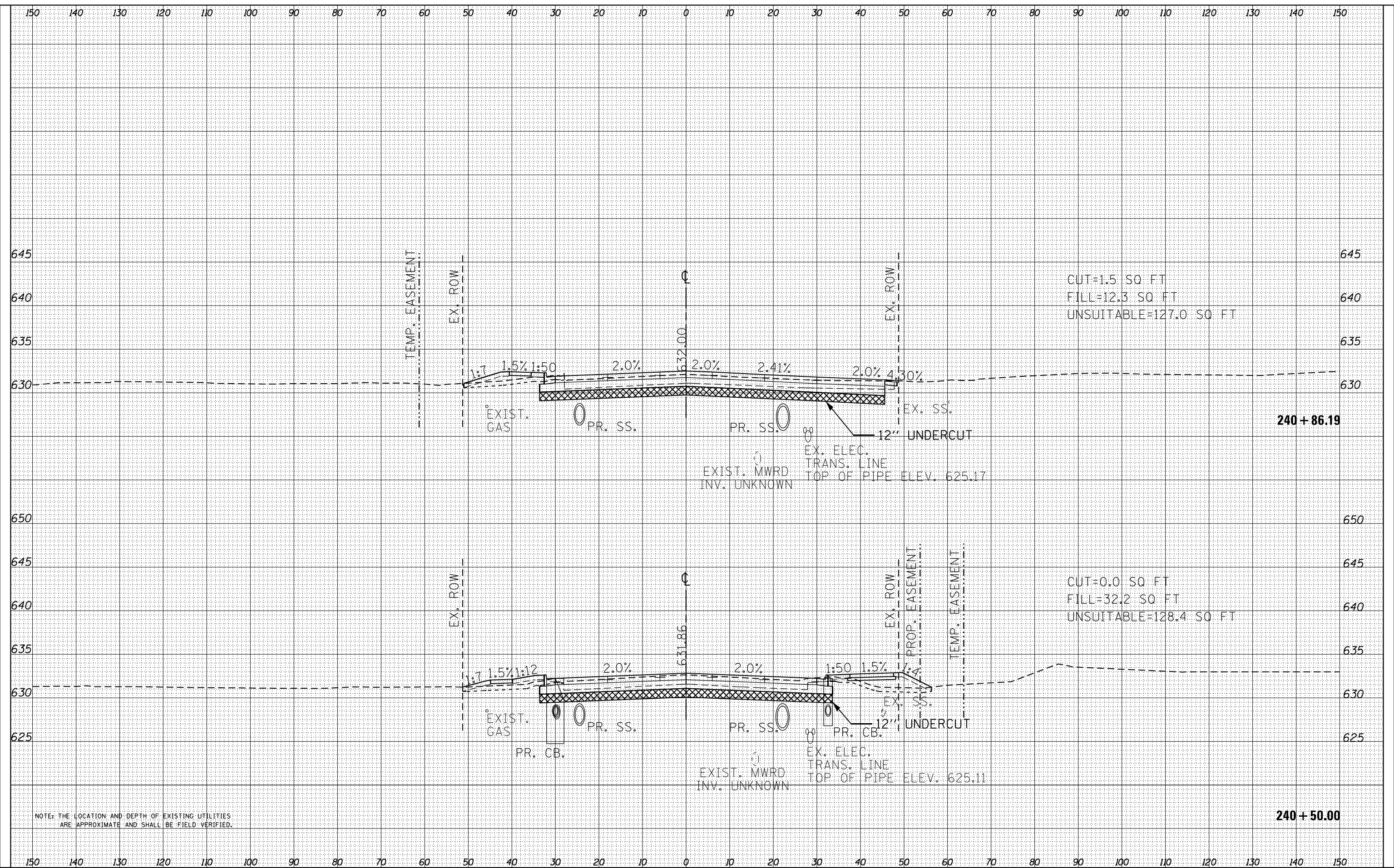
SCALE: 1"=10'H/1"=5'V SHEET 12 OF 25 SHEETS STA. 239+95.98 TO STA. 240+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	254
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				

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

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

FILE NAME = D:\6010-shr-cash-201.dgn



NOTE: THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.



USER NAME = EtwileE	DESIGNED - MXF	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - MJM	REVISED -
PLOT DATE = 3/18/2024	CHECKED - JRS	REVISED -
	DATE - 01/10/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RAND ROAD CROSS SECTIONS

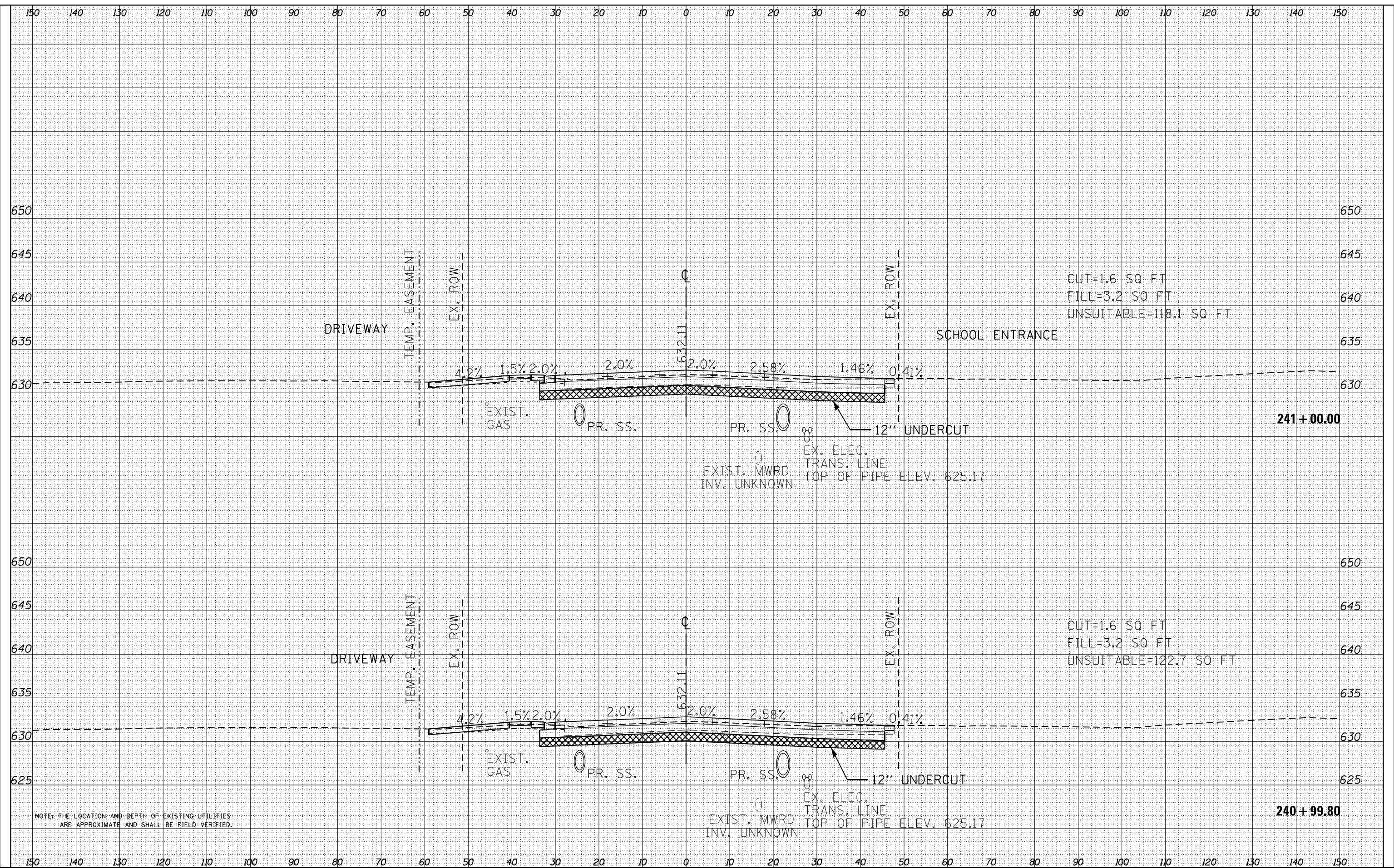
SCALE: 1"=10'H/1"=5'V SHEET 13 OF 25 SHEETS STA. 240+50.00 TO STA. 240+86.19

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	255
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				

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

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

FILE NAME = D:\6010-shh-rash-201.dgn



NOTE: THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.



USER NAME = EtwileE	DESIGNED - MXF	REVISED -
	DRAWN - MJM	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - JRS	REVISED -
PLOT DATE = 3/18/2024	DATE - 01/10/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RAND ROAD CROSS SECTIONS

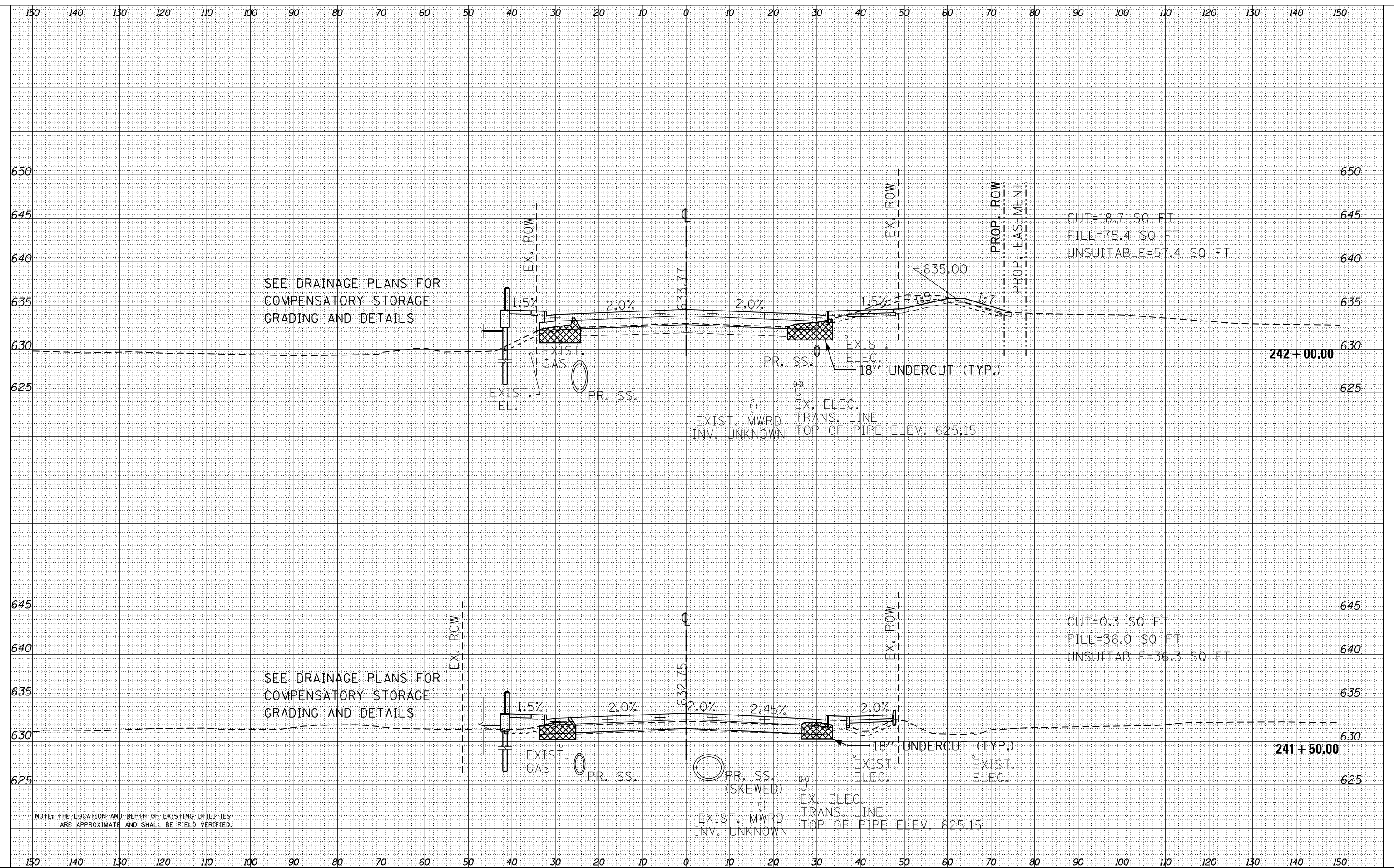
SCALE: 1"=10'H/1"=5'V SHEET 14 OF 25 SHEETS STA. 240+99.80 TO STA. 241+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	256
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				

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

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

FILE NAME = D:\6010-eh-t-rash-200.dgn



SEE DRAINAGE PLANS FOR COMPENSATORY STORAGE GRADING AND DETAILS

SEE DRAINAGE PLANS FOR COMPENSATORY STORAGE GRADING AND DETAILS

NOTE: THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.

CUT=18.7 SQ FT
FILL=75.4 SQ FT
UNSUITABLE=57.4 SQ FT

CUT=0.3 SQ FT
FILL=36.0 SQ FT
UNSUITABLE=36.3 SQ FT



USER NAME = EtwileE	DESIGNED - MXF	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - MJM	REVISED -
PLOT DATE = 3/18/2024	CHECKED - JRS	REVISED -
	DATE - 01/10/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

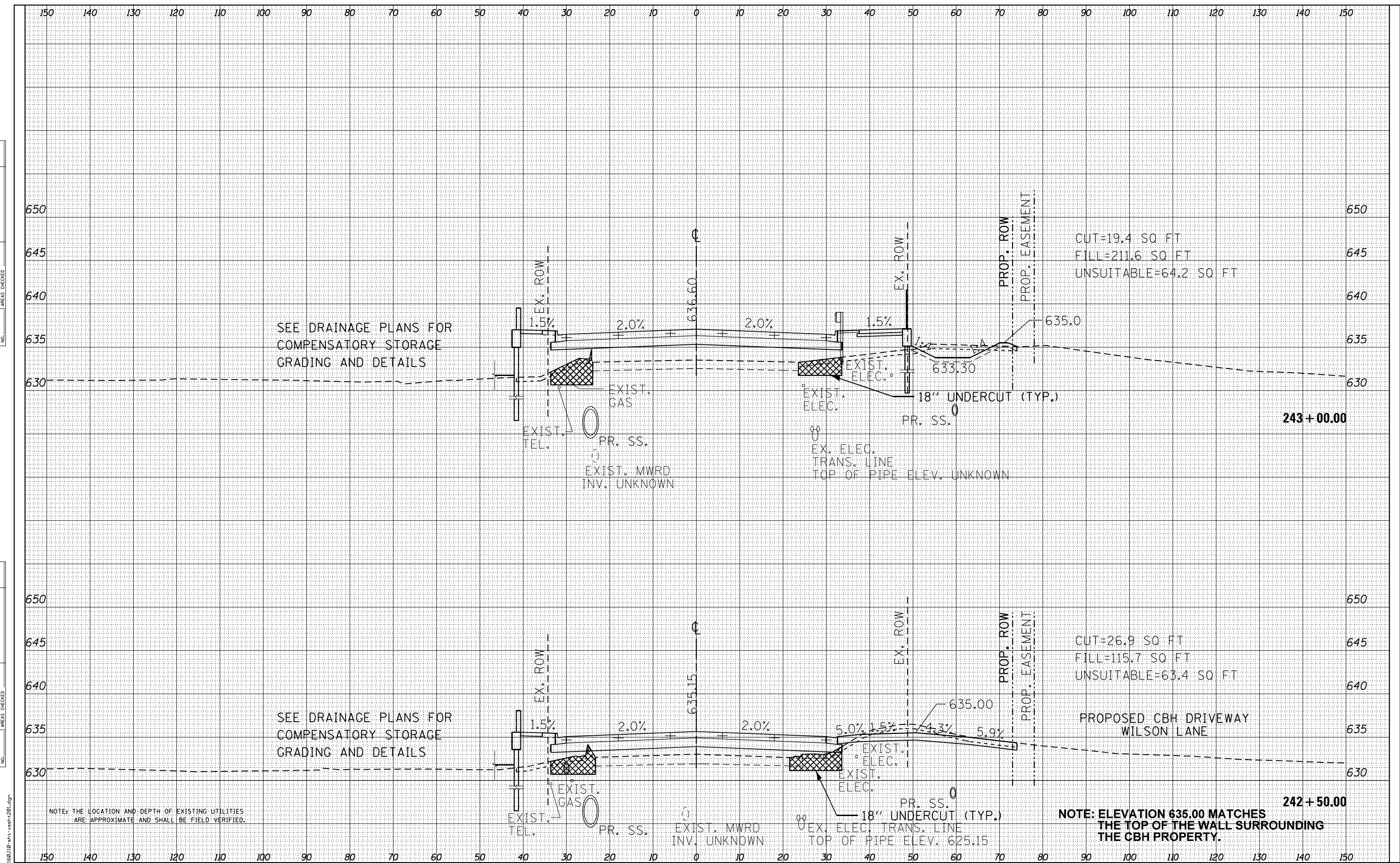
RAND ROAD CROSS SECTIONS

SCALE: 1"=10'H/1"=5'V SHEET 15 OF 25 SHEETS STA. 241+50.00 TO STA. 242+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	257
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
AREAS CHECKED	TEMPLATE
	AREAS
	CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
AREAS CHECKED	TEMPLATE
	AREAS
	CHECKED



NOTE: THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.

NOTE: ELEVATION 635.00 MATCHES THE TOP OF THE WALL SURROUNDING THE CBH PROPERTY.



USER NAME =	EtzwieE
DESIGNED -	MXF
DRAWN -	MJM
CHECKED -	JRS
DATE -	01/10/2024

REVISED -	
REVISED -	
REVISED -	
REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RAND ROAD CROSS SECTIONS

SCALE: 1"=10'H/1"=5'V SHEET 16 OF 25 SHEETS STA. 242+50.00 TO STA. 243+00.00

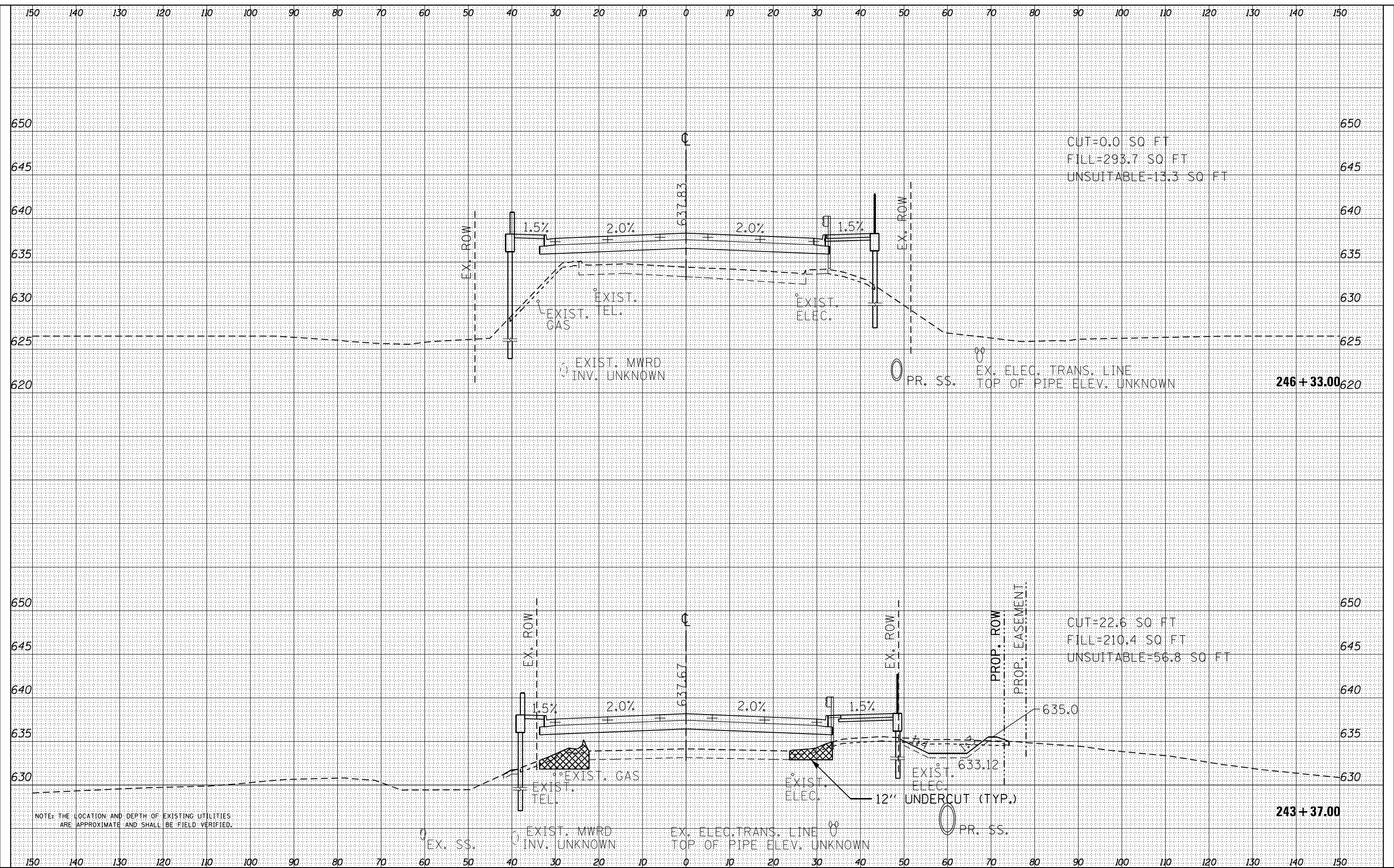
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	258
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				

FILE NAME = D:\60110-shh-rand-rs&h-2020.dgn

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

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

FILE NAME = D:\6010-eh-t-rash-201.dgn



NOTE: THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.



USER NAME = EtwileE	DESIGNED - MXF	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - MJM	REVISED -
PLOT DATE = 3/18/2024	CHECKED - JRS	REVISED -
	DATE - 01/10/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

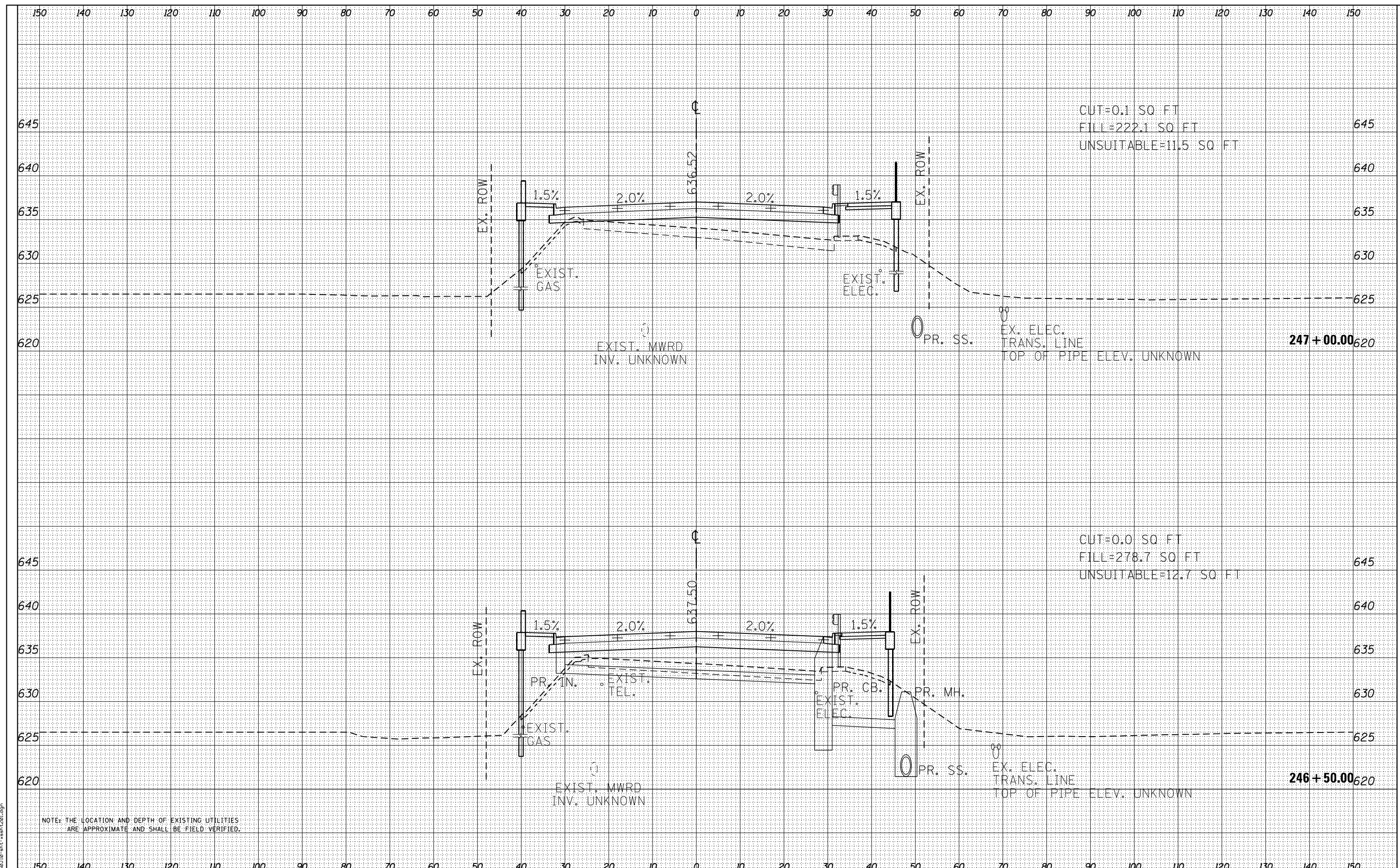
RAND ROAD CROSS SECTIONS

SCALE: 1"=10'H/1"=5'V SHEET 17 OF 25 SHEETS STA. 243+37.00 TO STA. 246+33.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	259
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				

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

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



NOTE: THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.

FILE NAME = D:\6010\shh\ashh20.dgn



USER NAME = EtwileE	DESIGNED - MXF	REVISED -
	DRAWN - MJM	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - JRS	REVISED -
PLOT DATE = 3/18/2024	DATE - 01/10/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RAND ROAD CROSS SECTIONS

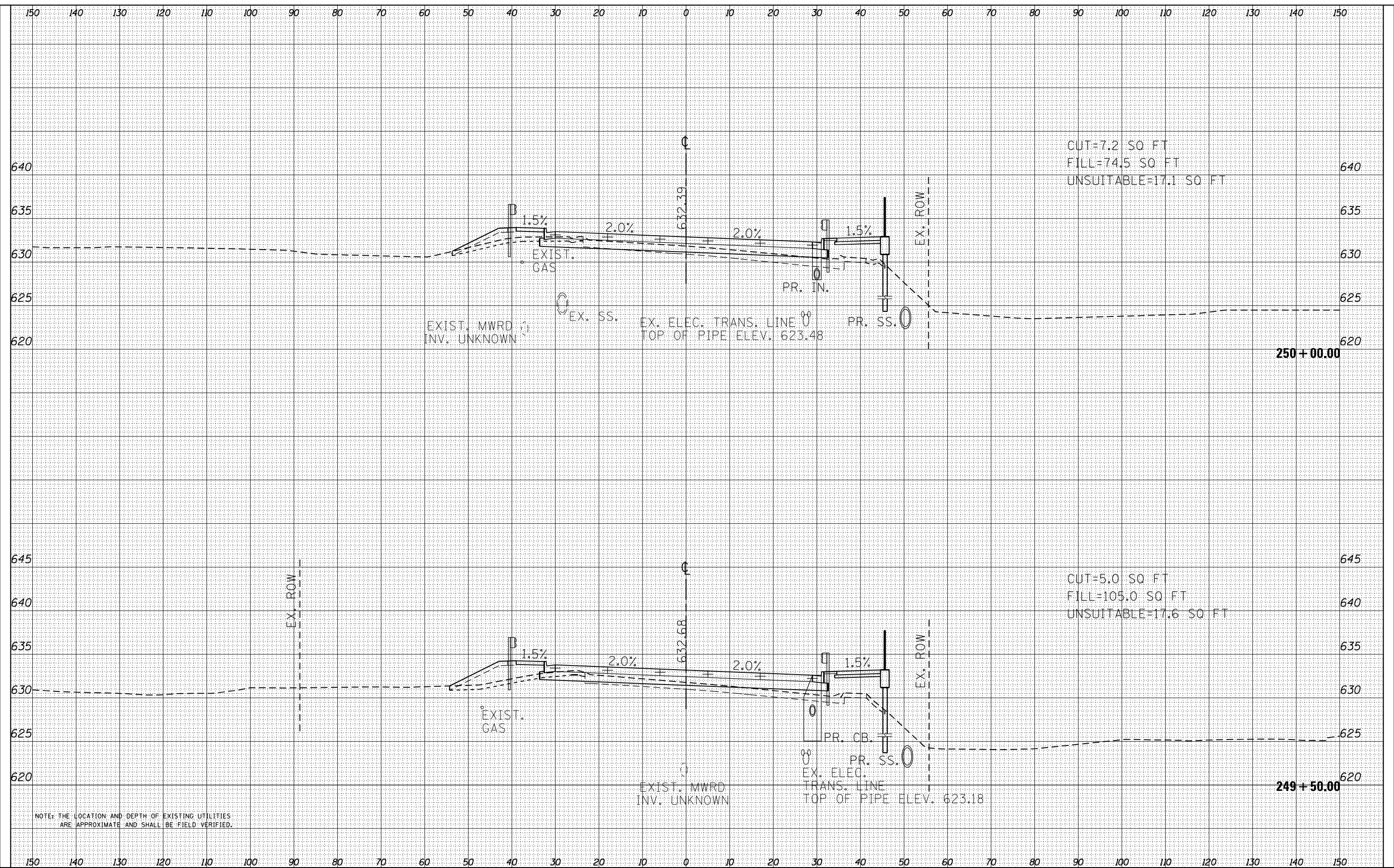
SCALE: 1"=10'H/1"=5'V SHEET 18 OF 25 SHEETS STA. 246+50.00 TO STA. 247+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	260
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				

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

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

FILE NAME = D:\6010-ht-rash-201.dgn



NOTE: THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.



USER NAME = EtwileE	DESIGNED - MXF	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - MJM	REVISED -
PLOT DATE = 3/18/2024	CHECKED - JRS	REVISED -
	DATE - 01/10/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RAND ROAD CROSS SECTIONS

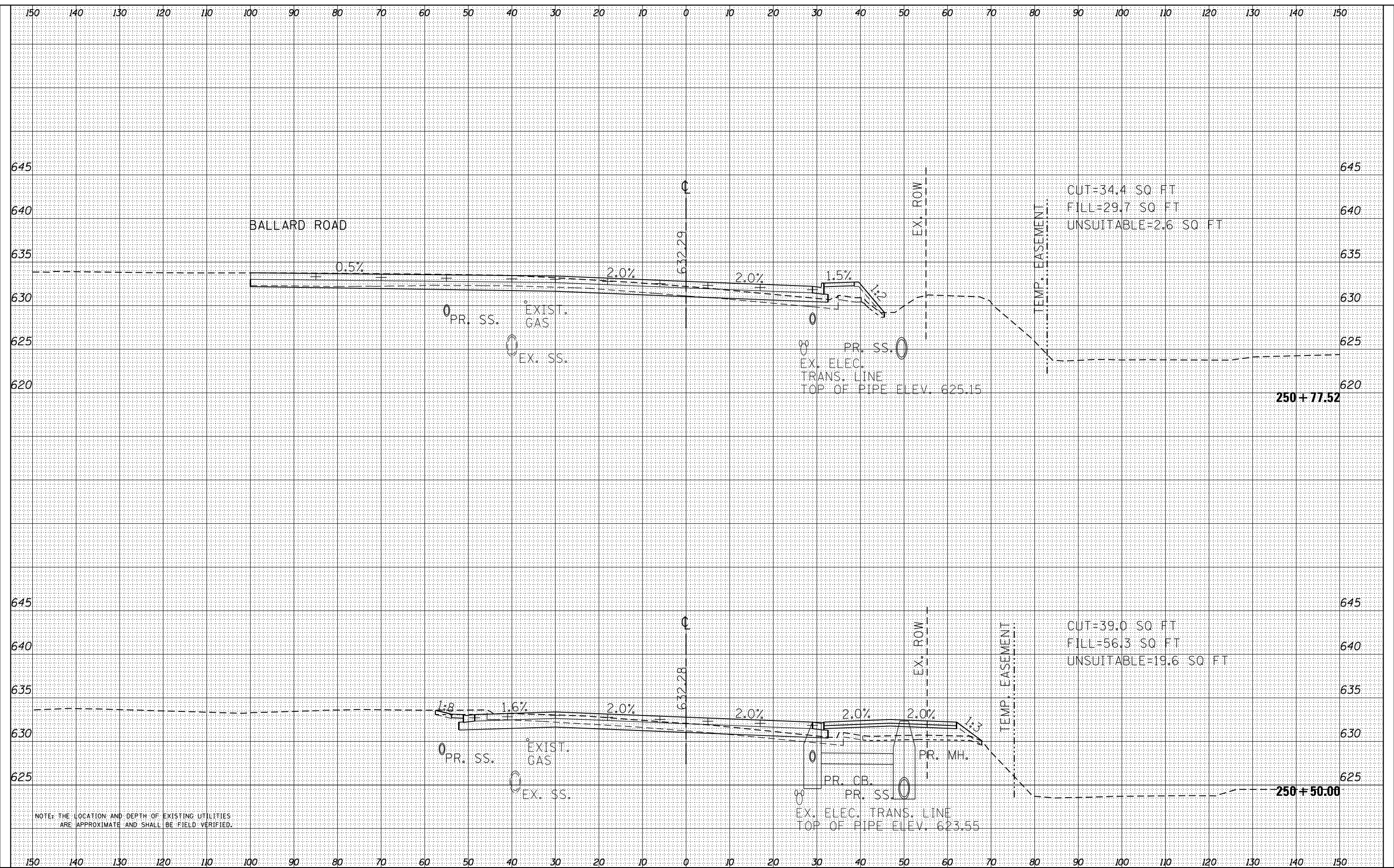
SCALE: 1"=10'H/1"=5'V SHEET 21 OF 25 SHEETS STA. 249+50.00 TO STA. 250+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	263
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				

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

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

FILE NAME = D:\6010-ht-rash-201.dgn



NOTE: THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.



USER NAME = EtwileE	DESIGNED - MXF	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - MJM	REVISED -
PLOT DATE = 3/18/2024	CHECKED - JRS	REVISED -
	DATE - 01/10/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RAND ROAD CROSS SECTIONS

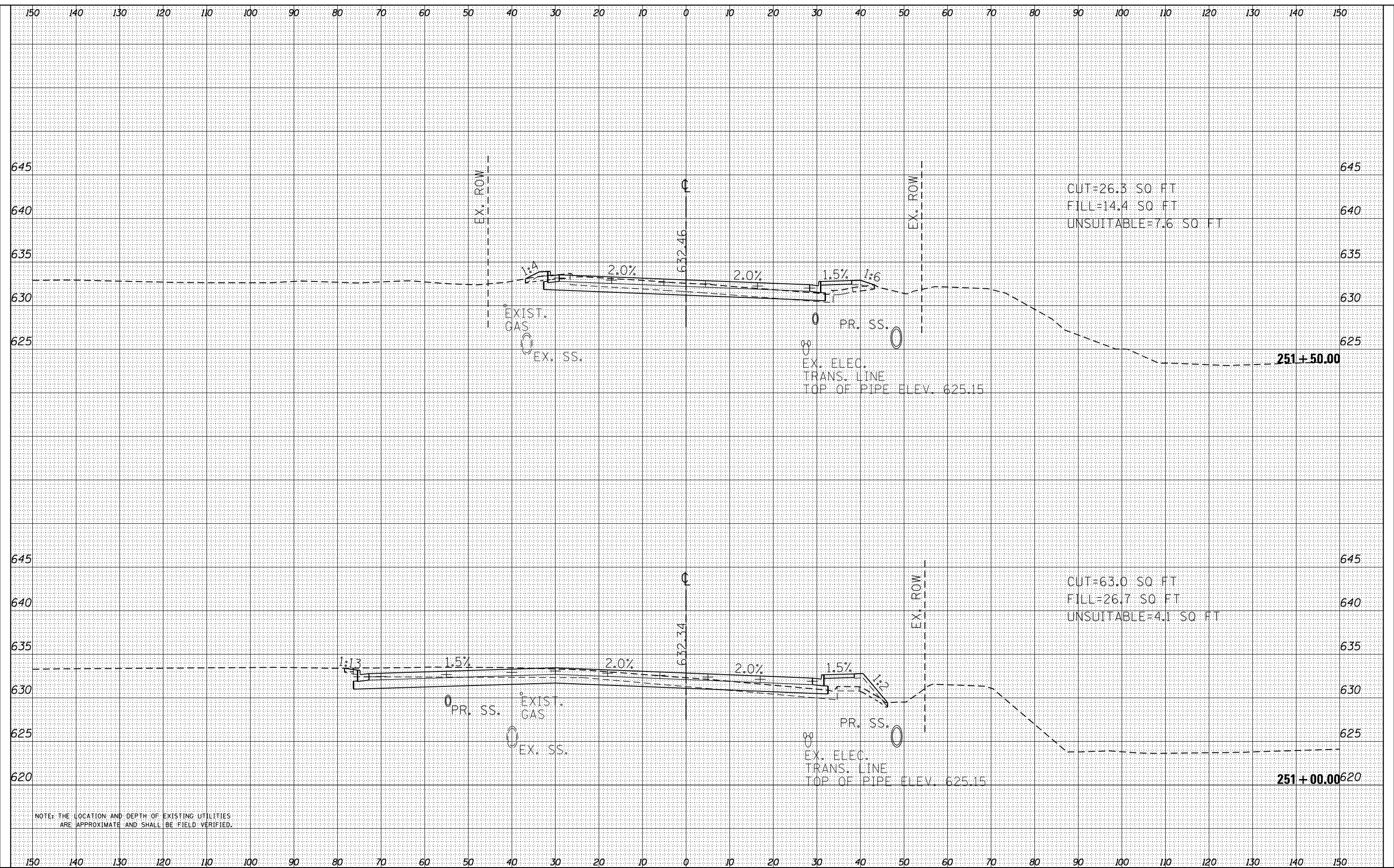
SCALE: 1"=10'H/1"=5'V SHEET 22 OF 25 SHEETS STA. 250+50.00 TO STA. 250+77.52

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	264
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				

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

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

FILE NAME = D:\6010-ht-cash-201.dgn



NOTE: THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.



USER NAME = EtwileE	DESIGNED - MXF	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - MJM	REVISED -
PLOT DATE = 3/18/2024	CHECKED - JRS	REVISED -
	DATE - 01/10/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RAND ROAD CROSS SECTIONS

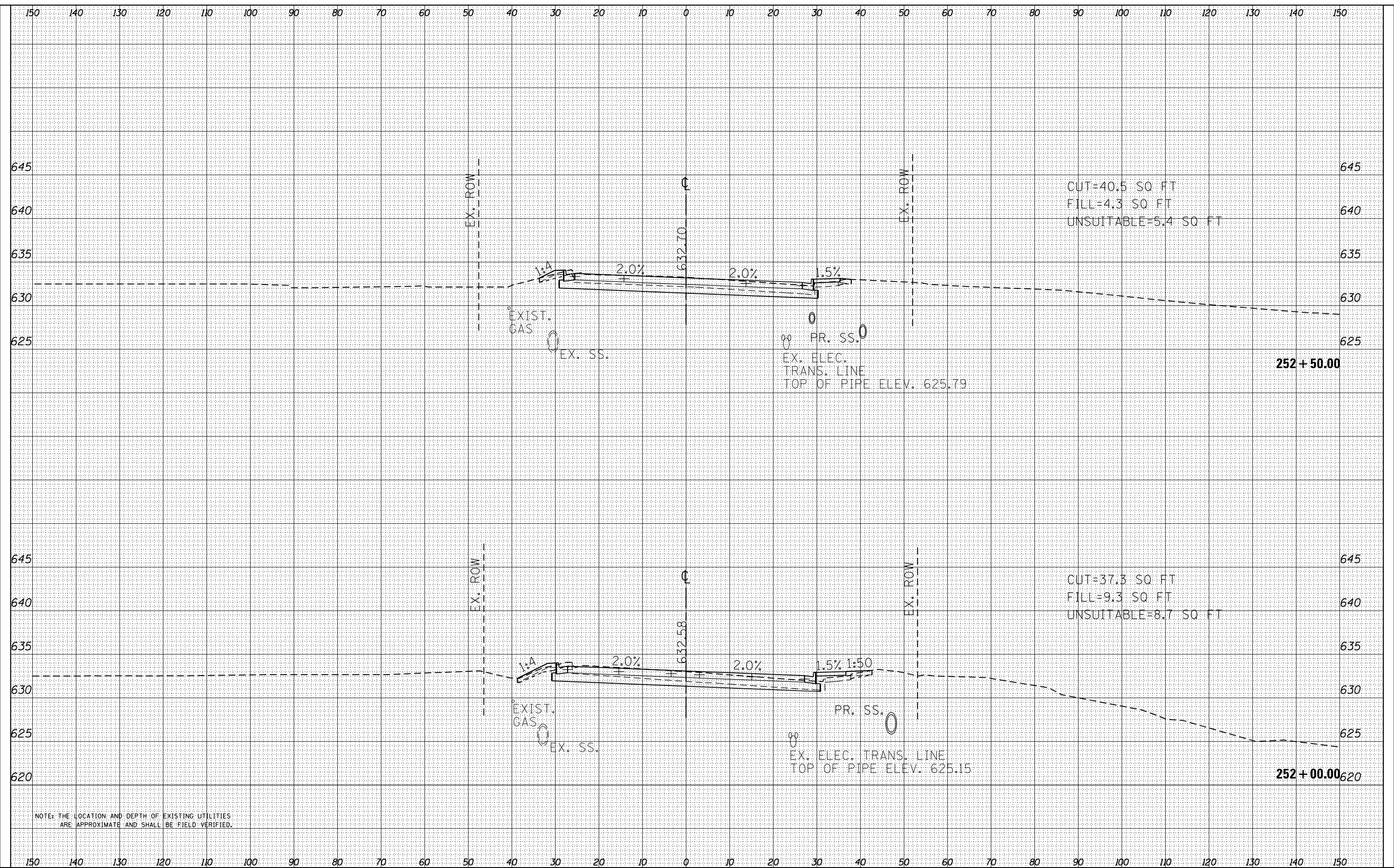
SCALE: 1"=10'H/1"=5'V SHEET 23 OF 25 SHEETS STA. 251+00.00 TO STA. 251+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	265
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				

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

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

FILE NAME = D:\6010-ht-rash-201.dgn



NOTE: THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.



USER NAME =	EtzwieE
DESIGNED -	MXF
DRAWN -	MJM
CHECKED -	JRS
DATE -	01/10/2024

REVISED -	
REVISED -	
REVISED -	
REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RAND ROAD CROSS SECTIONS

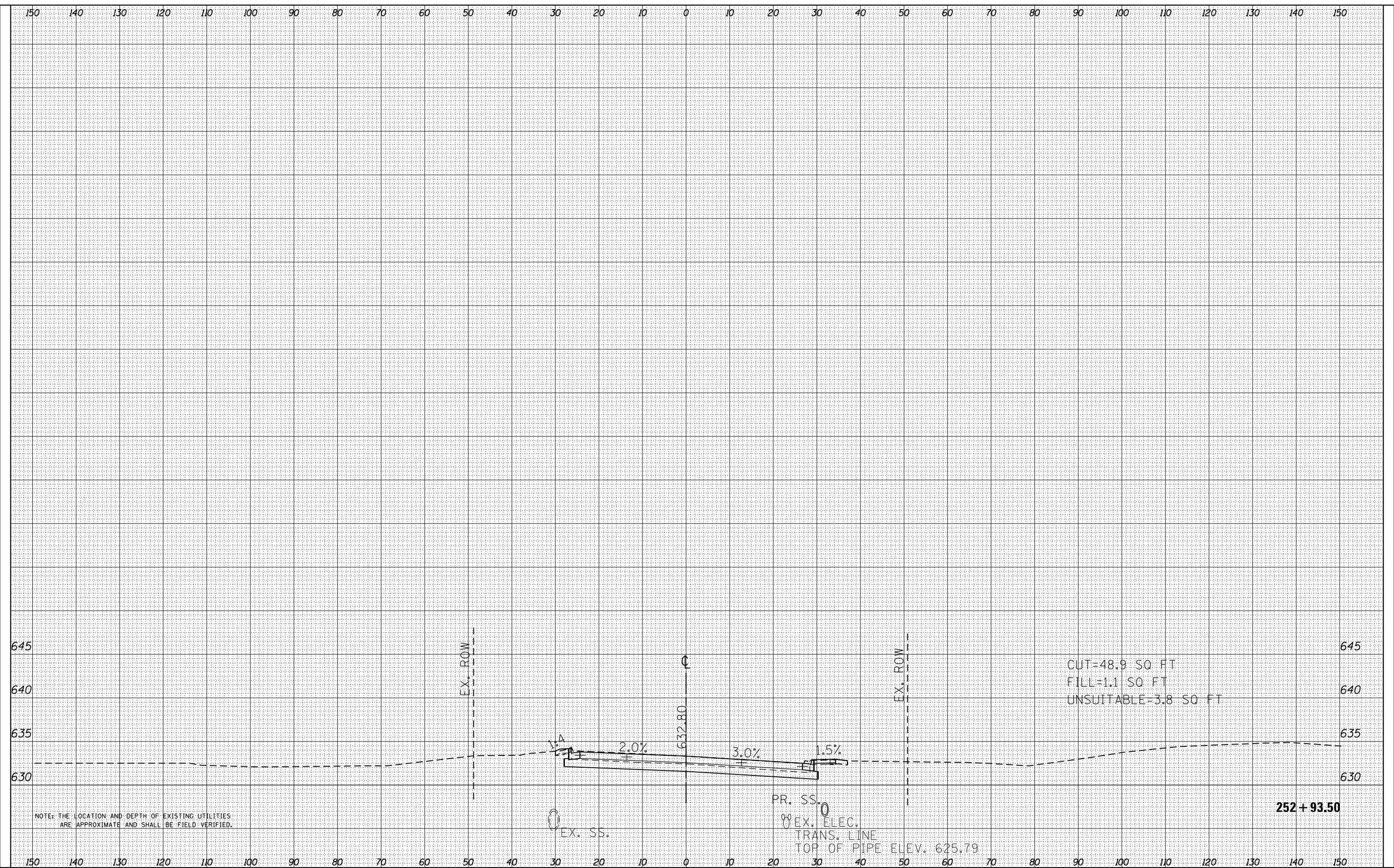
SCALE: 1"=10'H/1"=5'V SHEET 24 OF 25 SHEETS STA. 252+00.00 TO STA. 252+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	266
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				

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

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

FILE NAME = D:\6010\shh\ashh20.dgn



NOTE: THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.



USER NAME = EtwileE	DESIGNED - MXF	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - MJM	REVISED -
PLOT DATE = 3/18/2024	CHECKED - JRS	REVISED -
	DATE - 01/10/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RAND ROAD CROSS SECTIONS

SCALE: 1"=10'H/1"=5'V SHEET 25 OF 25 SHEETS STA. 252+93.50 TO STA. 252+93.50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3523	120-Y-B	COOK	267	267
CONTRACT NO. 60J10				
ILLINOIS FED. AID PROJECT				