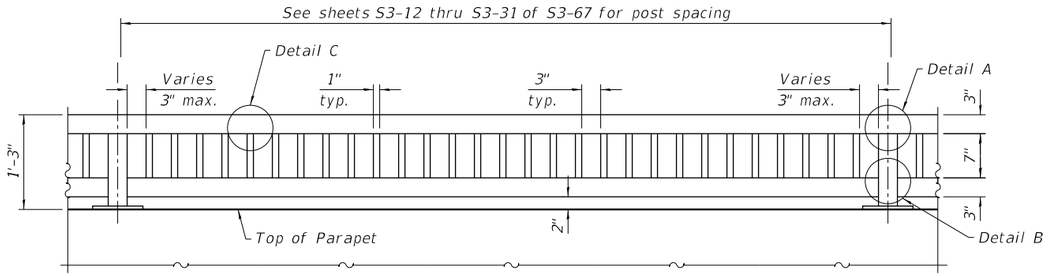
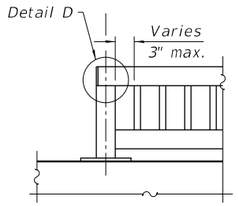
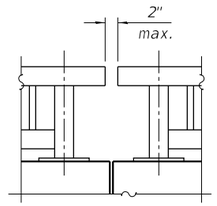


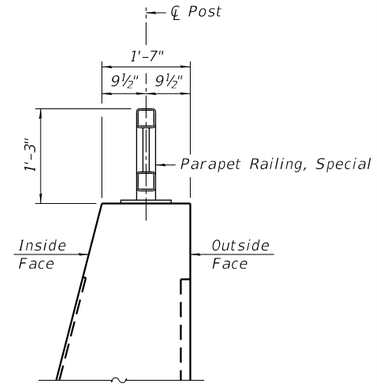
ELEVATION



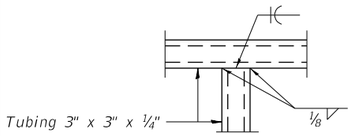
TERMINAL SECTION



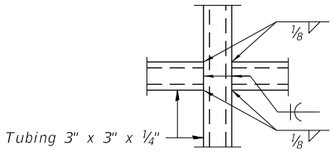
SECTION AT EXPANSION JOINT



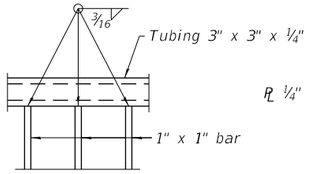
SECTION THRU RAILING



DETAIL A



DETAIL B



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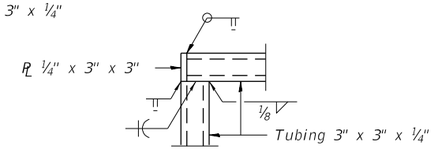
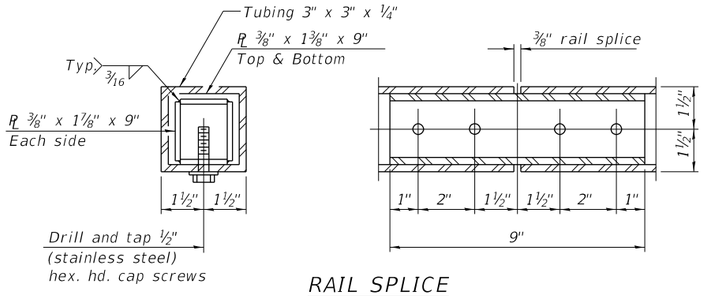
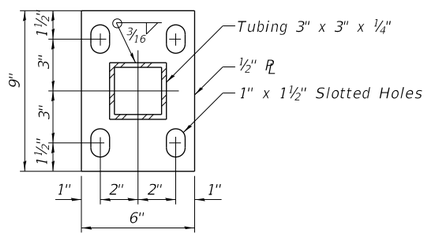


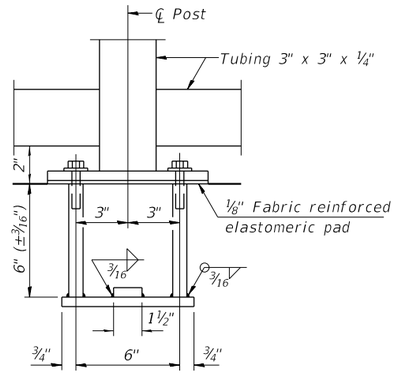
DETAIL D

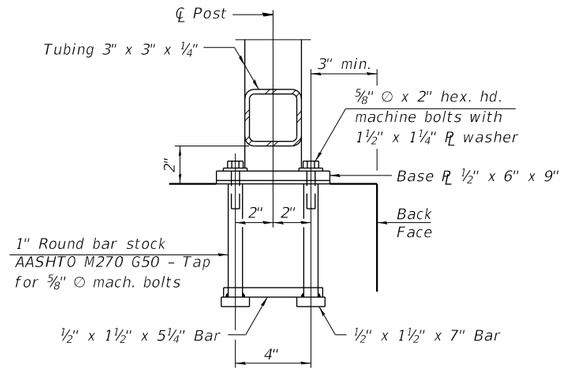


RAIL SPLICE



BASE PL





ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting ⅝" ∅ anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

Notes:
All post, railing, splices, anchor devices, and plates shall be powder coat the color Traffic Black (RAL 9017).

BILL OF MATERIAL

Item	Unit	Quantity
Parapet Railing, Special	Foot	1,618

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

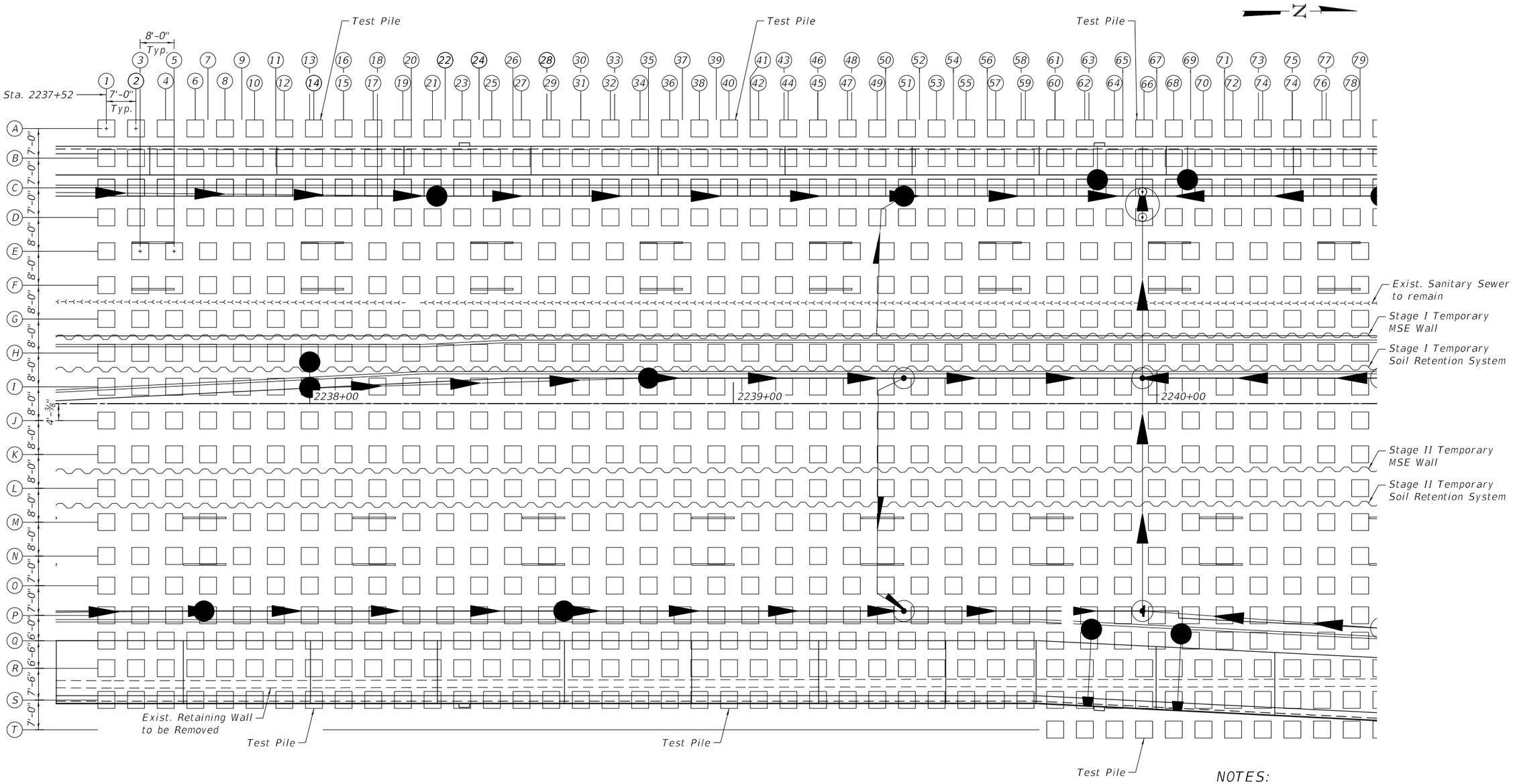
FILE NAME: pw:\\tg-pwint01.a-ac.transystems.com:transystems-pw1\Documents\Projects\CH401 - Chicago\P401130061\140.00000\44.00000\44.02800\Contract 2\Sheet Files\23 Structural Sheets\TSC\Sheets\SN 056-W302 - Wall 2\056W302-R2\93-034-RailDet.dgn

USER NAME = Mlbeening	DESIGNED - JE	REVISED -
	DRAWN - JE	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - IS	REVISED -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RAILING DETAILS
STRUCTURE NO. 056-W302
SHEET S3-34 OF S3-67 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	501
		CONTRACT NO. 61J93		
		ILLINOIS	FED. AID PROJECT	



TIMBER PILE LAYOUT PLAN

NOTES:

1. See Sheets S3-01 thru S3-06 for the Elevation view of the Timber Pile Ground Improvement.
2. See Sheet S3-38 for Detail 1.
3. Dimensions are given to ℄ of pile and cap.

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1475 EAST WOODFIELD ROAD, SUITE 600
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(847) 605-9600

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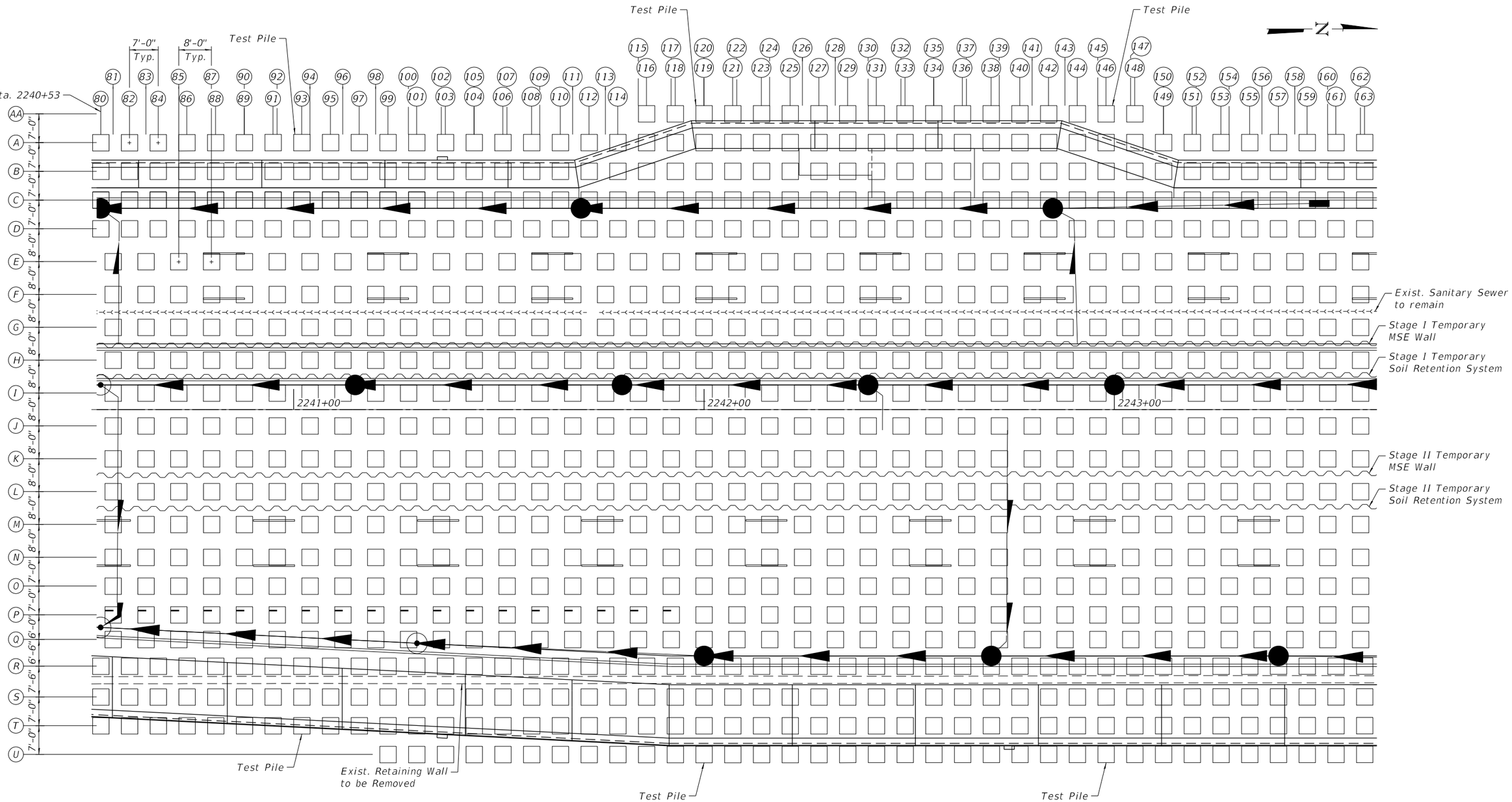
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TIMBER PILE GROUND IMPROVEMENT LAYOUT 1
STRUCTURE NO. 056-W302
SHEET S3-35 OF S3-67 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	502
		CONTRACT NO. 61J93		
		ILLINOIS	FED. AID PROJECT	



TIMBER PILE LAYOUT PLAN

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

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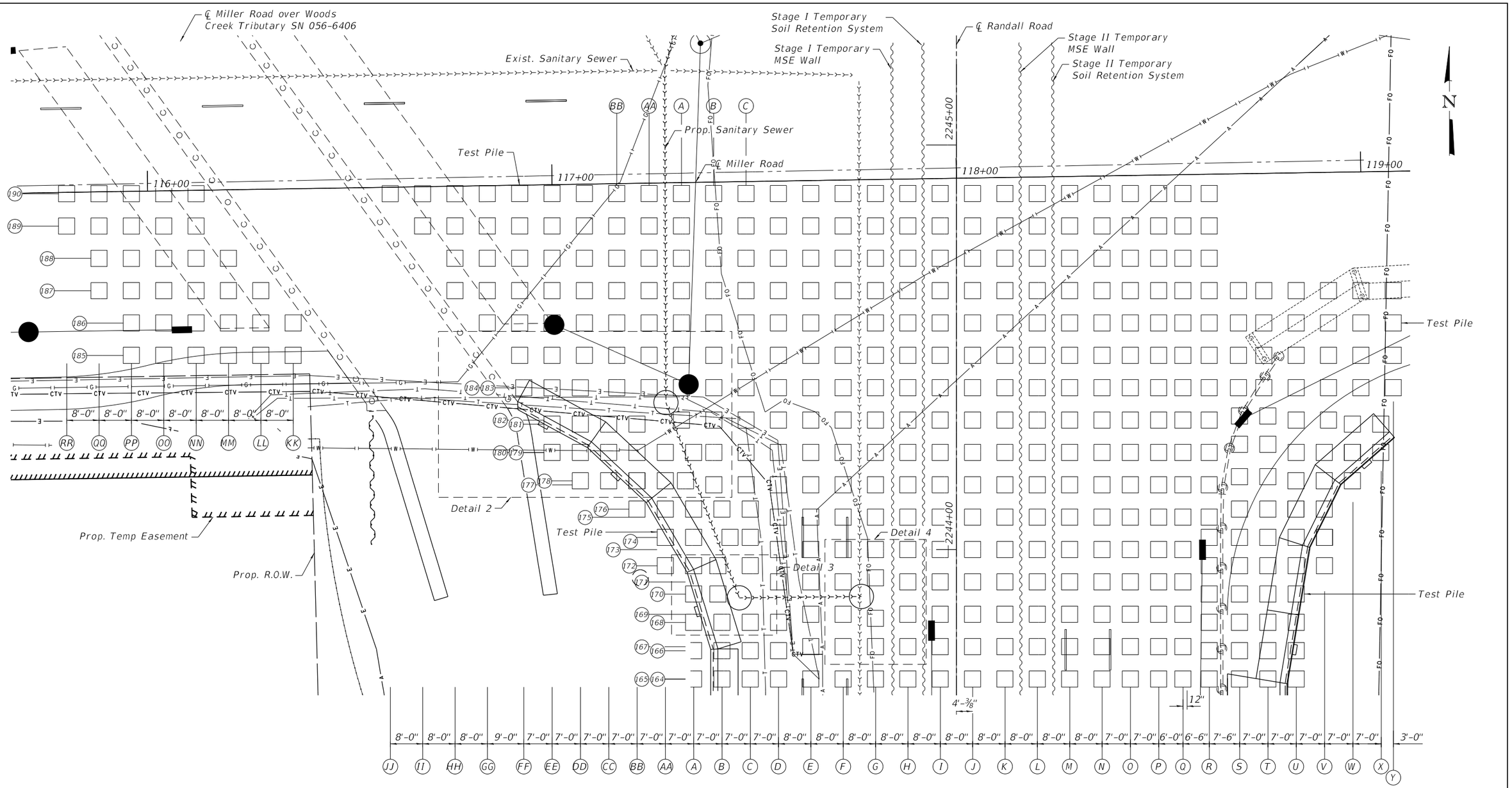
USER NAME = Mbeening	DESIGNED - JE	REVISED -	**STATE OF ILLINOIS**
	DRAWN - JE	REVISED -	**DEPARTMENT OF TRANSPORTATION**
PLOT SCALE = 24.0000 ' / in.	CHECKED - TJA	REVISED -	
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -	

TIMBER PILE GROUND IMPROVEMENT LAYOUT 2
STRUCTURE NO. 056-W302
SHEET S3-36 OF S3-67 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	503
		CONTRACT NO. 61J93		
		ILLINOIS	FED. AID PROJECT	



TIMBER PILE LAYOUT PLAN

NOTE:

1. See Sheets S3-01 thru S3-06 for the Elevation view of the Timber Pile Ground Improvement.
2. See Sheet S3-38 for Details 2 thru 4.

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
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(847) 605-9600

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USER NAME = Mbeening	DESIGNED - JE	REVISED -	
	DRAWN - JE	REVISED -	
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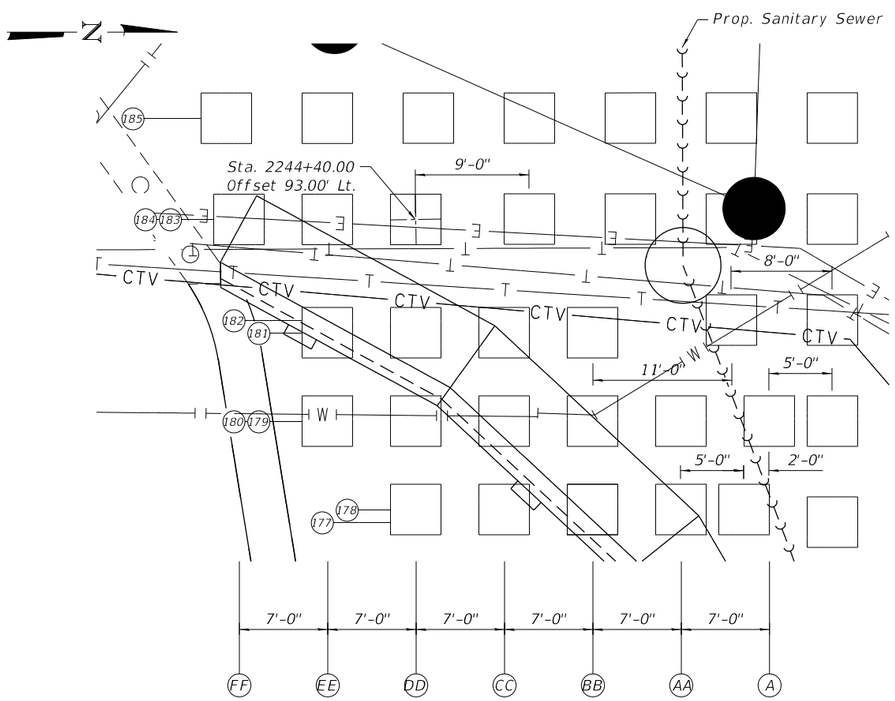
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -	

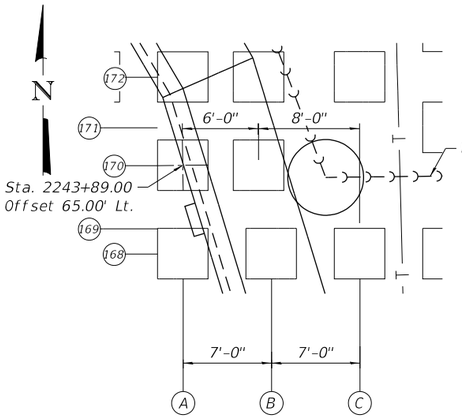
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TIMBER PILE GROUND IMPROVEMENT LAYOUT 3
STRUCTURE NO. 056-W302
SHEET S3-37 OF S3-67 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	504
		CONTRACT NO. 61J93		
		ILLINOIS	FED. AID PROJECT	



DETAIL 1



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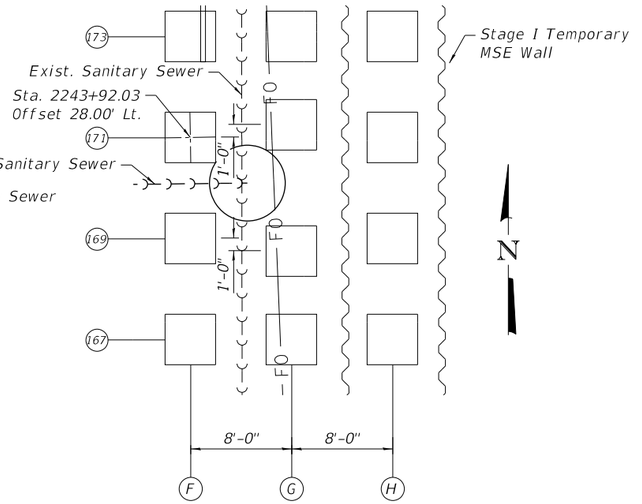
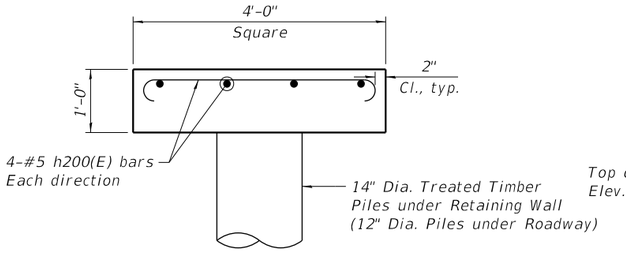
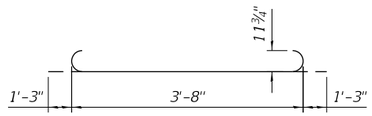


DETAIL 3



PILE CAP DETAIL

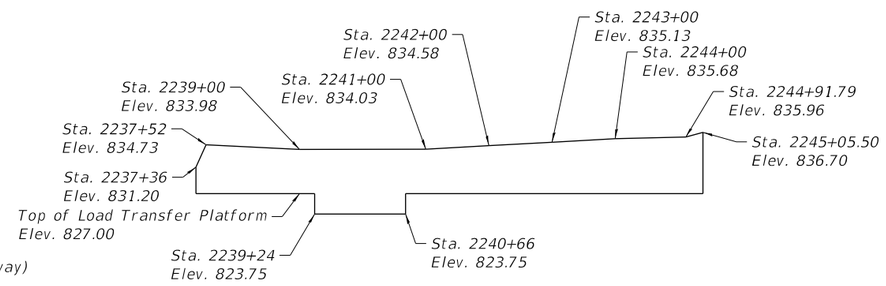


BAR h200(E)

PRECAST CONCRETE CAP
BILL OF MATERIAL

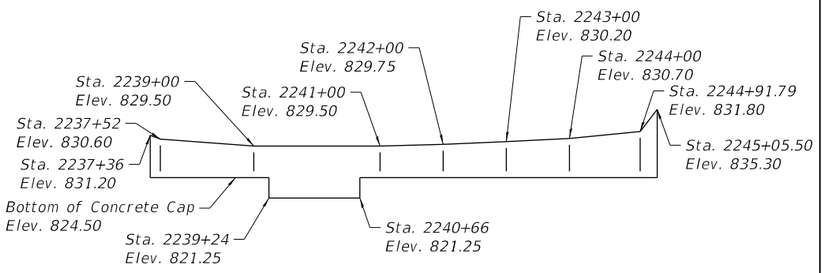
Item	Unit	Total
Concrete	Cu. Yd.	0.9
Reinforcement Bars, Epoxy Coated	Pound	52

(For Information Only)



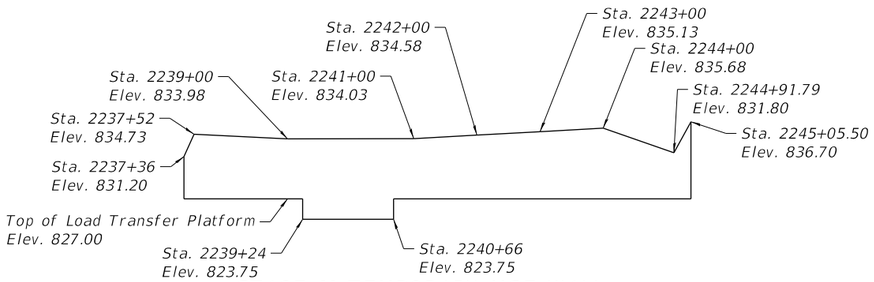
STAGE I TEMPORARY MSE WALL

Looking West



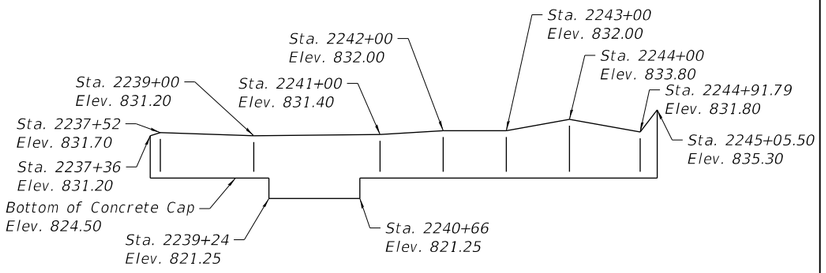
STAGE I TEMPORARY SOIL RETENTION SYSTEM

Looking West



STAGE II TEMPORARY MSE WALL

Looking West



STAGE I TEMPORARY SOIL RETENTION SYSTEM

Looking West

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SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

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PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TIMBER PILE GROUND IMPROVEMENT DETAILS 1
STRUCTURE NO. 056-W302
SHEET S3-38 OF S3-67 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	505
		CONTRACT NO. 61J93		
		ILLINOIS	FED. AID PROJECT	

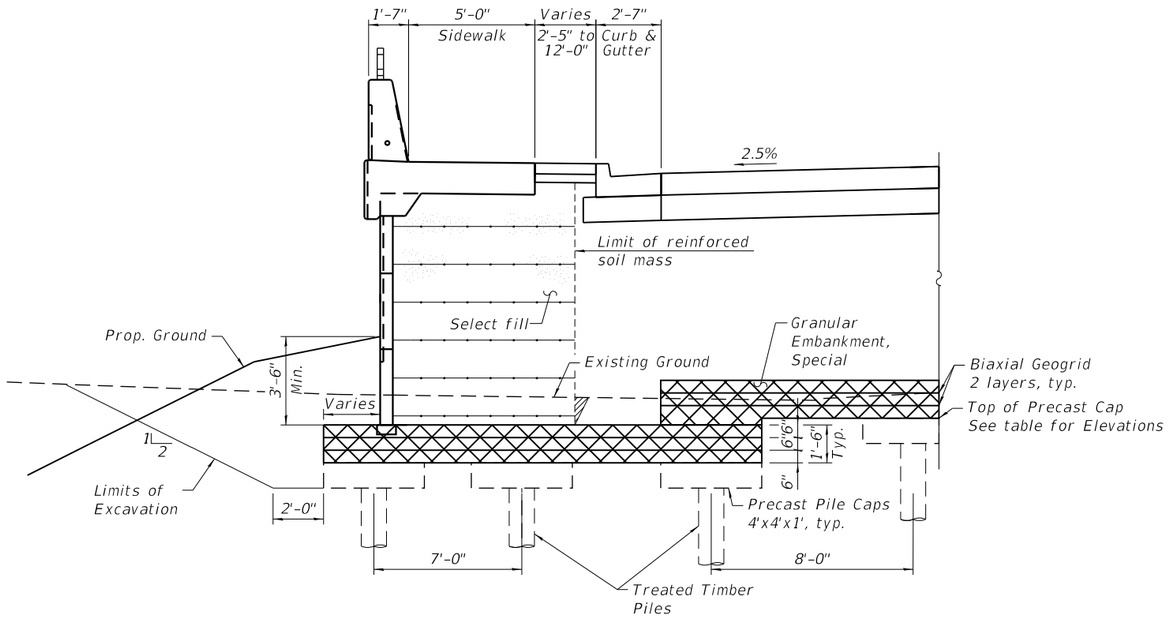
PILE SUPPORTED EMBANKMENT NOTES

1. Timber pile splicing is not recommended. If any production pile does not achieve the design capacity when fully driven, one of the following two methods can be approved by the Engineer for the pile in question:

   a. The pile shall be withdrawn and replaced by a new longer pile that achieves the design capacity when fully driven.

   b. A second pile that achieves the design capacity when fully driven shall be driven adjacent to the insufficient pile.

2. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60.



TYPICAL SECTION THRU PILE SUPPORTED EMBANKMENT

(West leg shown, east leg similar)
Looking North)

BILL OF MATERIAL

Item	Unit	Total
Granular Embankment, Special	Cu. Yd.	6,814
Precast Concrete Caps	Each	2,177
Driving Piles	Foot	76,904
Furnishing Treated Piles 20.1 to 38 Feet	Foot	44,914
Furnishing Treated Piles over 38 Feet	Foot	31,990
Biaxial Geogrid	Sq. Yd.	24,647
Test Pile Timber	Each	16

PILE SUPPORTED EMBANKMENT DETAILS

PILE COLUMN LIMITS	PILE ROWS	NOMINAL REQUIRED BEARING (KIPS)	ESTIMATED PILE LENGTH (FEET)	TOP OF CAP ELEVATION (FEET)
1 thru 14	A thru D	203	36	822.25
	E thru P	153	38	825.50
	Q thru S	203	37	823.50
15 thru 46	A thru D	203	40	822.25
	E thru P	153	36	825.50
	Q thru S	203	36	822.50
47 thru 65	A thru D	203	40	822.25
	E thru N	153	33	822.25
	O thru P	153	34	823.25
	Q thru T	203	37	823.25
66 thru 84	A thru D	203	34	822.25
	E thru N	153	39	822.25
	O thru P	153	40	823.25
	Q thru T	203	37	823.25
85 thru 92	A thru D	203	34	822.25
	E thru Q	153	42	825.50
	R thru T	203	39	823.25
93 thru 114	A thru D	203	36	822.25
	E thru P	153	37	825.50
	R thru U	203	42	823.25
115 thru 124	AA thru D	203	32	822.00
	E thru Q	153	43	825.50
	R thru U	203	38	823.25
125 thru 159	AA thru D	203	32	822.00
	E thru Q	153	43	825.50
	R thru U	203	39	824.25
160 thru 169	A thru D	203	35	824.50
	E thru Q	153	43	825.50
	R thru U	203	39	824.25
170 thru 184	FF thru CC	203	33	820.50
	BB thru D	203	43	824.50
	E thru Y	153	37	825.50
185 thru 186	PP thru KK	153	43	825.50
	GG thru CC	203	31	820.50
	BB thru Y	153	43	825.50
187 thru 190	RR thru Y	153	43	825.50

Note:
Piles with a Nominal Required Bearing exceeding 153 kips shall h ave a minimum diameter at 36 inches from the butt of the pile of 14 inches.

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PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TIMBER PILE GROUND IMPROVEMENT DETAILS 2
STRUCTURE NO. 056-W302
SHEET S3-39 OF S3-67 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	506
		CONTRACT NO. 61J93		
	ILLINOIS	FED. AID PROJECT		

wangeng@wangeng.com
Telephone:
Fax:

BORING LOG EPS-01

WEI Job No.: KE225090
Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 831.11 ft
North: 2011089.92 ft
East: 983692.00 ft
Station: 2236+29.74
Offset: 55.44 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		14-inch thick ASPHALT --PAVEMENT--						
	830.0							
	829.4	4-inch thick CRUSHED STONE --AGGREGATE--						
	828.9	3-inch thick CONCRETE --PAVEMENT--						
	828.1	15-inch thick white STYROFOAM --FILL--						
		Medium dense, brown and gray, LOAM to SANDY LOAM, trace gravel; damp	5		1	7 6 6	NP	10
	825.6	--FILL--						
		Medium dense, brown and gray, fine to medium SAND, trace to little gravel; damp			2	8 6 4	NP	7
		--RDR 2--						
	823.1	--rig chatter--						
		Loose to medium dense, brown to gray, gravelly SANDY LOAM; damp to wet			3	22 5 5	NP	8
		--RDR 2-3--	10					
					4	3 3 4	NP	19
	818.1	Loose, gray, medium to coarse SAND, trace to little gravel; wet --RDR 2--						
					5	3 3 3	NP	25
			15					
					6	4 6 3	NP	23
	813.1	Loose to medium dense, gray, gravelly SANDY LOAM to SANDY GRAVEL, trace cobbles; wet to saturated						
			20		7	7 5 4	NP	28

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--RDR 2-3-- --lost drilling mud--			8	7 4 4	NP	20
		--rig chatter-- --lost drilling mud--			9	7 5 4	NP	18
		--rig chatter--	25		10	6 4 4	NP	27
					11	8 7 6	NP	20
		--rig chatter-- --lost drilling mud--	30					
					12	10 12 8	NP	21
		--rig chatter-- --lost drilling mud--	35					
					13	14 9 8	NP	10
			40					

WANGENGINC 7907701.GPJ WANGENG.GDT 5/16/23

GENERAL NOTES

Begin Drilling: 09-20-2021 Complete Drilling: 09-20-2021
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: NC&KG Logger: M. Rojo Checked by: M. Snider
Drilling Method: 2.25-inch IDA HSA to 10' mud rotary after, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 11.00 ft
At Completion of Drilling: MUD
Time After Drilling: NA
Depth to Water: NA

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

wangeng@wangeng.com
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Fax:

BORING LOG EPS-01

WEI Job No.: KE225090
Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 831.11 ft
North: 2011089.92 ft
East: 983692.00 ft
Station: 2236+29.74
Offset: 55.44 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		14	14 15 12	NP	10
		--rig chatter-- --possible cobbles--						
			50		15	6 4 5	NP	13
	779.4	Stiff, gray SILTY CLAY LOAM to SILTY LOAM; wet --RDR 2--						
			55		16	10 9 9	1.25 P	26
	774.4	Medium dense, gray SILTY LOAM; saturated						
	771.1	Boring terminated at 60.00 ft	60		17	15 15 14	NP	22

WANGENGINC 7907701.GPJ WANGENG.GDT 5/16/23

GENERAL NOTES

Begin Drilling: 09-20-2021 Complete Drilling: 09-20-2021
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: NC&KG Logger: M. Rojo Checked by: M. Snider
Drilling Method: 2.25-inch IDA HSA to 10' mud rotary after, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 11.00 ft
At Completion of Drilling: MUD
Time After Drilling: NA
Depth to Water: NA

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

wangeng@wangeng.com
Telephone:
Fax:

BORING LOG EPS-02

WEI Job No.: KE225090
Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 834.30 ft
North: 2011165.65 ft
East: 983632.09 ft
Station: 2237+04.31
Offset: 5.72 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		14-inch thick ASPHALT --PAVEMENT--						
	833.1							
	832.7	5-inch thick CONCRETE --PAVEMENT--						
	832.0	3-inch thick SANDY GRAVEL --AGGREGATE--			1	4 6 7	NP	7
	831.0	9-inch thick white STYROFOAM --FILL--						
		Medium dense, brown SANDY GRAVEL --FILL--	5		2	6 5 4	3.50 P	10
		Very stiff, brown SILTY CLAY, trace gravel; damp						
	828.0	--FILL--			3	4 4 5	NP	20
		Loose to medium dense, brown to gray, fine to medium SAND; moist to saturated						
		--RDR 2--			4	3 4 7	NP	24
		--continued drilling from 25 feet, measured a 24 hour mud water level at 10 feet--	10					
					5	6 9 6	NP	20
	821.3	Medium dense, gray SANDY GRAVEL; saturated --RDR 2-3--						
			15		6	9 12 13	NP	15
					7	10 10 11	NP	12
			20		8	24 13 9	NP	15

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
					9	13 6 7	NP	13
			25		10	16 10 7	NP	13
					11	9 9 7	NP	12
			30		12	18 7 6	NP	18
					13	17 16 13	NR	
			35					
					14	18 15 9	NP	20
			40					

WANGENGINC 7907701.GPJ WANGENG.GDT 5/16/23

GENERAL NOTES

Begin Drilling: 05-12-2021 Complete Drilling: 05-13-2021
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: R&J Logger: I. Nenn Checked by: M. Snider
Drilling Method: 2.25-inch IDA HSA to 10' mud rotary after, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 8.50 ft
At Completion of Drilling: 3' Mud
Time After Drilling: 24 hours
Depth to Water: 10.00 ft

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

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME: pw:\\hq-pwint01.ai-e.transystems.com:transystemscorp-pw11\Documents\Projects\CH401 - Chicago\P401130061\40.0000\44.0000\44.0800\Contract 2\Sheet Files\123 Structural Sheets\TSC\Sheets\SN_056-W302 - Wall 2\056W302-62J93-0440-BoringLog1.dgn

USER NAME = Mlbeening	DESIGNED - JE	REVISED -	
	DRAWN - JE	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - TJA	REVISED -	
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 1
STRUCTURE NO. 056-W302
SHEET S3-40 OF S3-67 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	507
		CONTRACT NO. 61J93		
	ILLINOIS FED. AID PROJECT			

Wang Engineering
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BORING LOG EPS-02

WEI Job No.: KE225090

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 834.30 ft
North: 2011165.65 ft
East: 983632.09 ft
Station: 2237+04.31
Offset: 5.72 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--lost drilling mud--	45		15	6 17 12	NP	
	787.5	Stiff, gray SILTY CLAY LOAM, trace to some gravel; moist --RDR 3--	50		16	8 8 5	1.50 P	13
		--lost drilling mud--	55		17	45 19 7	NA	
	774.3	Boring terminated at 60.00 ft	60		18	6 6 7	1.00 P	20

GENERAL NOTES

Begin Drilling: 05-12-2021 Complete Drilling: 05-13-2021
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: R&J Logger: I. Nenn Checked by: M. Snider
Drilling Method: 2.25-inch IDA HSA to 10' mud rotary after, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 8.50 ft
At Completion of Drilling: 3' Mud
Time After Drilling: 24 hours
Depth to Water: 10.00 ft
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 790701.GPJ WANGENG.GDT 5/16/23

BORING LOG EPS-03

WEI Job No.: KE225090

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 830.76 ft
North: 2011305.51 ft
East: 983688.25 ft
Station: 2238+45.35
Offset: 52.75 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	829.6	14-inch thick ASPHALT --PAVEMENT--						
	829.0	34-inch thick CRUSHED STONE --AGGREGATE--						
	827.8	3-inch thick CONCRETE --PAVEMENT--						
		15-inch thick white STYROFOAM --FILL--	5		1	11 3 3	3.50 P	9
	825.3	Very stiff, brown SILTY LOAM to LOAM, little gravel; damp --FILL--						
		Very loose, black and dark brown Organic SILTY LOAM, trace plant matter; moist --RDR 2--			2	2 2 1	NP	73
	822.0	Loose, gray SANDY LOAM, little gravel; saturated --RDR 2--	10		3	2 3 4	NP	15
	820.3	Loose to medium dense, gray SILTY LOAM, trace to little gravel; saturated --RDR 2--	15		4	4 5 6	NP	15
	815.3	Loose to medium dense, gray, fine to medium SAND, trace gravel; wet --RDR 2--	20		5	4 4 4	NP	15
					6	3 4 5	NP	18
					7	5 6 6	NP	18
	810.3	Gray SILTY LOAM; saturated			8	3 3 5	NP	20
	809.5	Loose, gray, fine to medium SAND, trace gravel; saturated						
	807.8	Loose, gray SILTY LOAM, trace gravel; saturated --RDR 2--	25		9	5 4 5	NP	18
	805.3	Loose to medium dense, gray SAND to SANDY LOAM, trace gravel; wet to saturated --RDR 2--	30		10	3 4 4	NP	17
					11	4 4 3	NP	20
	794.0	Very stiff, gray SILTY CLAY LOAM, interbedded silt and sand lenses; moist --RDR 2--	35		12	3 4 6	NP	21
			40		13	2 3 7	2.00 P	27

GENERAL NOTES

Begin Drilling: 09-17-2021 Complete Drilling: 09-17-2021
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: KS&JT Logger: M. Rojo Checked by: M. Snider
Drilling Method: 2.25-inch IDA HSA to 10' mud rotary thereafter, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 9.00 ft
At Completion of Drilling: MUD
Time After Drilling: NA
Depth to Water: NA
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 790701.GPJ WANGENG.GDT 5/16/23

BORING LOG EPS-03

WEI Job No.: KE225090

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 830.76 ft
North: 2011305.51 ft
East: 983688.25 ft
Station: 2238+45.35
Offset: 52.75 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	790.0	Loose to medium dense, gray SANDY LOAM, trace gravel; wet --RDR 2--	45		14	3 4 5	NP	18
			50		15	8 7 7	NP	15
	779.0	Very stiff, gray SILTY CLAY LOAM, trace to little gravel; damp to moist --RDR 2--	55		16	6 9 13	3.69 B	11
	774.0	Gray SANDY GRAVEL, trace cobbles; wet --RDR 3--						
	772.0	Medium dense, gray SILTY LOAM; wet --RDR 3--	60		17	14 10 8	NP	19
	770.8	Boring terminated at 60.00 ft	65					
			70					
			75					
			80					

GENERAL NOTES

Begin Drilling: 09-17-2021 Complete Drilling: 09-17-2021
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: KS&JT Logger: M. Rojo Checked by: M. Snider
Drilling Method: 2.25-inch IDA HSA to 10' mud rotary thereafter, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 9.00 ft
At Completion of Drilling: MUD
Time After Drilling: NA
Depth to Water: NA
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 790701.GPJ WANGENG.GDT 5/16/23

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME: pw:\\lng-pwin01.a-e.transystemscorp.com:transystemscorp-pw1\Documents\Projects\C14101 - CHicago\P401130061\40.0000\44.0000\44.0800\Contract 2\Sheet Files\123 Structural Sheets\TSC\Sheets\SN_0S6-W302 - Wall 2\0S6W302-623f03-041-BoringLog2.dgn

USER NAME = Mbeening	DESIGNED - JE	REVISED -
	DRAWN - JE	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - TJA	REVISED -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 2
STRUCTURE NO. 056-W302
SHEET S3-41 OF S3-67 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	508
		CONTRACT NO. 61J93		
	ILLINOIS FED. AID PROJECT			

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

BORING LOG EPS-04

WEI Job No.: 790-77-01

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 833.55 ft
North: 2011368.32 ft
East: 983631.41 ft
Station: 2239+04.03
Offset: 7.10 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		14-inch thick ASPHALT --PAVEMENT--						
	832.4							
	832.0	4-inch thick CONCRETE --PAVEMENT--						
	831.0	12-inch thick white STYROFOAM --FILL--			1	2 1 2	NP	
		Very stiff, black to brown SILTY CLAY to SILTY CLAY LOAM; damp --FILL-- --RDR 2--	5		2	6 5 9	3.50 P	21
					3	7 5 6	2.21 B	3
	825.5	Soft to medium stiff, black to brown PEAT; moist --RDR 2--	10		4	3 2 3	0.50 P	170
					5	0 0 1	0.41 B	216
			15		6	0 0 0	0.41 B	127
	818.0	Very loose, black, organic SILTY LOAM; moist --RDR 2--			7	0 0 1	0.41 B	62
	815.5	Soft, gray SILTY CLAY LOAM; moist --RDR 2--			8	0 7 3	0.33 B	31
	814.5	Loose to medium dense, gray,	20					
		medium to coarse SAND; saturated --RDR 2--			9	5 5 3	NP	19
			25		10	3 2 4	NP	22
					11	4 3 2	NP	23
			30		12	5 5 8	NP	18
					13	6 9 11	NP	19
			35		14	7 9 10	NP	21
			40					

GENERAL NOTES

Begin Drilling: 05-12-2021 Complete Drilling: 05-12-2021
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: R&J Logger: I. Nenn Checked by: M. Snider
Drilling Method: 2.25-inch IDA HSA to 10' mud rotary thereafter, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 19.00 ft
At Completion of Drilling: 12' Mud
Time After Drilling: NA
Depth to Water: NA

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

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BORING LOG EPS-04

WEI Job No.: 790-77-01

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 833.55 ft
North: 2011368.32 ft
East: 983631.41 ft
Station: 2239+04.03
Offset: 7.10 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--trace gravel--	45		15	11 8 7	NP	19
		--trace gravel--	50		16	11 12 17	NP	15
		--some gravel-- --few clay lenses--	55		17	8 8 7	NP	13
	777.5	Hard drilling; cobble zone, 56 to 57 feet --RDR 3--						
	776.5	Dense, gray SANDY GRAVEL; saturated --RDR 3--	60		18	29 24 19	NP	7
	773.5	Boring terminated at 60.00 ft						

GENERAL NOTES

Begin Drilling: 05-12-2021 Complete Drilling: 05-12-2021
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: R&J Logger: I. Nenn Checked by: M. Snider
Drilling Method: 2.25-inch IDA HSA to 10' mud rotary thereafter, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 19.00 ft
At Completion of Drilling: 12' Mud
Time After Drilling: NA
Depth to Water: NA

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

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BORING LOG EPS-05

WEI Job No.: 790-77-01

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 830.38 ft
North: 2011458.03 ft
East: 983689.64 ft
Station: 2239+97.86
Offset: 54.89 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		13-inch thick ASPHALT --PAVEMENT--						
	829.3							
	828.9	5-inch thick, brown SANDY GRAVEL --AGGREGATE--			1	3 2 2	NA	
	823.9	4-inch thick CONCRETE --PAVEMENT--						
		45-inch thick white STYROFOAM --FILL--	5		2	4 5 7	NA	
	824.9	Very stiff, reddish brown CLAY, trace gravel; damp --FILL--			3	4 4 7	2.50 P	34
	823.9	Medium stiff to very stiff, black Organic SILTY CLAY LOAM; damp --RDR 2--			4	2 3 3	0.75 P	126
	819.9	Soft, brown and black PEAT; damp RDR 2	10		5	0 0 1	0.49 B	206
			15		6	0 1 1	0.49 B	110
	814.9	Medium stiff, grayish brown, organic SILTY CLAY; damp --RDR 2--			7	0 0 0	0.57 B	83
	812.4	Loose, gray, fine SAND; saturated			8	7 6 1	NP	18
	810.9	Very soft, gray and black SILTY	20					
	808.4	CLAY, trace organic matter; moist --RDR 2--			9	1 4 8	< 0.25 P	26
		Medium dense, gray, fine to medium SAND; saturated --RDR 2--	25		10	6 7 5	NP	20
					11	7 6 5	NP	17
			30		12	5 6 6	NP	20
					13	7 8 8	NP	20
	793.6	Medium dense, gray, medium to coarse SAND, trace to some gravel; saturated --RDR 2--	35		14	14 11 10	NP	9
			40					

GENERAL NOTES

Begin Drilling: 04-27-2021 Complete Drilling: 04-27-2021
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: R&J Logger: M. Sadowski Checked by: M. Snider
Drilling Method: 2.25-inch IDA HSA to 10' mud rotary thereafter, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 18.00 ft
At Completion of Drilling: MUD
Time After Drilling: NA
Depth to Water: NA

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

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME: pw:\\hq-pwint01.a-e.transystems.com:transystems-pw1\Documents\Projects\CH401 - Chicago\P401130061\40.0000\44.0000\44.0800\Contract 2\Sheet Files\123 Structural Sheets\

USER NAME = Mlbeening	DESIGNED - JE	REVISED -	
	DRAWN - JE	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - TJA	REVISED -	
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 3
STRUCTURE NO. 056-W302

SHEET S3-42 OF S3-67 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	509
		CONTRACT NO. 61J93		
	ILLINOIS FED. AID PROJECT			

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

BORING LOG EPS-05

WEI Job No.: 790-77-01

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 830.38 ft
North: 2011458.03 ft
East: 983689.64 ft
Station: 2239+97.86
Offset: 54.89 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	11 13 16	NP	12
			50		16	10 11 11	NP	11
	775.9	Stiff, gray SILTY CLAY LOAM, trace gravel; damp --RDR 2--	55		17	12 14 10	1.50 P	14
	773.6	Medium dense, gray, medium to coarse SAND, little gravel, saturated --RDR 2--						
	770.4	Boring terminated at 60.00 ft	60		18	14 11 15	NP	9

GENERAL NOTES

Begin Drilling: 04-27-2021 Complete Drilling: 04-27-2021
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: R&J Logger: M. Sadowski Checked by: M. Snider
Drilling Method: 2.25-inch IDA HSA to 10' mud rotary thereafter, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: ▽ 18.00 ft
At Completion of Drilling: ▼ MUD
Time After Drilling: NA
Depth to Water: ▽ NA

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

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BORING LOG EPS-06

WEI Job No.: 790-77-01

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 833.02 ft
North: 2011567.62 ft
East: 983629.46 ft
Station: 2241+02.54
Offset: 7.64 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	832.3	9-inch thick ASPHALT --PAVEMENT--						
	832.0	3-inch thick, brown SAND --AGGREGATE--						
	831.5	6-inch thick ASPHALT --PAVEMENT--						
	831.1	3-inch thick CONCRETE --PAVEMENT--			1	2 1 1	NP	
	829.4	21-inch thick white STYROFOAM --FILL--	5		2	9 9 12	> 4.50 P	7
	827.6	Hard, brown SILTY CLAY LOAM, little gravel; damp --FILL--			3	3 3 4	1.00 P	55
		Medium stiff to stiff, black, organic SILTY CLAY LOAM; damp --RDR 2--	10		4	2 1 2	0.50 P	38
	822.5	Soft, brown PEAT; moist --RDR 2--			5	0 1 1	0.33 B	235
			15		6	0 0 2	0.33 B	112
					7	0 0 0	0.33 B	91
	815.0	Soft, black and brown, organic LOAM; moist --RDR 2--	20		8	0 0 2	0.41 B	104

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	812.5	Very soft, black to gray SILTY CLAY LOAM; moist --RDR 2--			9	0 1 1	0.08 B	54
	808.9	Loose, gray SILT, few sand seams; saturated --RDR 2--	25		10	0 1 6	NP	23
	806.5	Medium dense, gray, medium to coarse SAND; saturated --RDR 2--			11	4 7 6	NP	24
			30		12	4 9 11	NP	16
			35		13	7 9 9	NP	17
		--some gravel--	40		14	14 14 12	NP	7

GENERAL NOTES

Begin Drilling: 04-29-2021 Complete Drilling: 04-30-2021
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: R&J Logger: I. Nenn Checked by: M. Snider
Drilling Method: 2.25-inch IDA HSA to 10' mud rotary thereafter, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: ▽ 24.50 ft
At Completion of Drilling: ▼ 15' Mud
Time After Drilling: 24 hours
Depth to Water: ▽ 22.00 ft

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

Wang Engineering
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1145 N Main Street
Lombard, IL 60148
Telephone: (630) 953-9928
Fax:

BORING LOG EPS-06

WEI Job No.: 790-77-01

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 833.02 ft
North: 2011567.62 ft
East: 983629.46 ft
Station: 2241+02.54
Offset: 7.64 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--cave-in--						
	791.3	Very stiff, gray SILTY CLAY LOAM, trace gravel; damp --RDR 2--						
			45		15	4 10 12	2.87 B	12
	786.3	Medium dense, gray, medium to coarse SAND; saturated --RDR 2--						
			50		16	11 9 11	NP	10
			55		17	7 6 13	NP	13
	776.3	Medium dense, gray SILT; saturated						
	773.0	Boring terminated at 60.00 ft	60		18	7 8 14	NP	21

GENERAL NOTES

Begin Drilling: 04-29-2021 Complete Drilling: 04-30-2021
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: R&J Logger: I. Nenn Checked by: M. Snider
Drilling Method: 2.25-inch IDA HSA to 10' mud rotary thereafter, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: ▽ 24.50 ft
At Completion of Drilling: ▼ 15' Mud
Time After Drilling: 24 hours
Depth to Water: ▽ 22.00 ft

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

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME: pw:\\hq-pwint01.a-d.transystems.com:transystems-pw1\Documents\Projects\CH401 - Chicago\P401130061\40.0000\44.0000\44.0800\Contract 2\Sheet Files\123 Structural Sheets\TSC\Sheets\SN_056-W302 - Wall 2\056W302-62J93-0443-BoringLog4.dgn

USER NAME = Mbeening	DESIGNED - JE	REVISED -	
	DRAWN - JE	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - TJA	REVISED -	
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 4
STRUCTURE NO. 056-W302
SHEET S3-43 OF S3-67 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	510
		CONTRACT NO. 61J93		
		ILLINOIS FED. AID PROJECT		

Wang Engineering
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1145 N Main Street
Lombard, IL 60148
Telephone: (630) 953-9928
Fax:

BORING LOG EPS-07

WEI Job No.: 790-77-01

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 831.06 ft
North: 2011674.38 ft
East: 983688.47 ft
Station: 2242+14.21
Offset: 54.78 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		19-inch thick ASPHALT --PAVEMENT--						
	829.5	23-inch thick white STYROFOAM --FILL--			1	1 1 2	NP	
	827.6	Very stiff (3.50P), brown SILTY CLAY; damp --FILL--	5		2	10 18 13	NP	8
	825.6	Dense, brown, gravelly coarse SAND; dry --FILL--			3	3 4 6	2.50 P	28
	823.1	Soft, black and brown, organic SILTY LOAM; moist --RDR 2--	10		4	2 2 2	0.33 B	33
					5	1 1 1	0.25 P	77
	818.1	Soft, brown PEAT; moist --RDR 2--	15		6	0 1 1	0.33 B	106
					7	0 1 1	0.33 B	100
			20		8	0 0 1	0.33 B	99
	810.6	Soft, black, organic SILTY LOAM; moist --RDR 2--			9	1 1 2	0.33 B	83
	808.1	Loose, gray, medium SAND, few sitlt lenses; saturated --RDR 2--	25		10	3 4 2	NP	19
	805.6	Medium dense, gray, coarse SAND; saturated --RDR 2-3--			11	4 7 7	NP	13
			30		12	8 8 8	NP	15
			35		13	6 7 7	NP	14
			40		14	6 6 7	NP	12

GENERAL NOTES

Begin Drilling: 04-27-2021 Complete Drilling: 04-27-2021
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: R&J Logger: I. Nenn Checked by: M. Snider
Drilling Method: 2.25-inch IDA HSA to 10' mud rotary thereafter, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: ▽ 23.50 ft
At Completion of Drilling: ▼ MUD
Time After Drilling: NA
Depth to Water: ▽ NA

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

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BORING LOG EPS-07

WEI Job No.: 790-77-01

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 831.06 ft
North: 2011674.38 ft
East: 983688.47 ft
Station: 2242+14.21
Offset: 54.78 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	789.3	Medium dense, gray, gravelly coarse SAND; saturated --RDR 2--	45		15	8 8 7	NP	8
			50		16	13 13 10	NP	10
	779.3	Medium dense, gray SILT to SILTY LOAM, trace gravel; saturated --RDR 2-3--	55		17	5 6 7	1.00 P	22
	771.1	Boring terminated at 60.00 ft	60		18	8 8 9	NP	21

GENERAL NOTES

Begin Drilling: 04-27-2021 Complete Drilling: 04-27-2021
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: R&J Logger: I. Nenn Checked by: M. Snider
Drilling Method: 2.25-inch IDA HSA to 10' mud rotary thereafter, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: ▽ 23.50 ft
At Completion of Drilling: ▼ MUD
Time After Drilling: NA
Depth to Water: ▽ NA

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

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BORING LOG EPS-08

WEI Job No.: 790-77-01

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 831.15 ft
North: 2011766.88 ft
East: 983628.64 ft
Station: 2243+07.00
Offset: 4.59 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		13-inch thick ASPHALT --PAVEMENT--						
	830.1	5-inch thick, brown SANDY GRAVEL --AGGREGATE--			1	1 1 2	NP	
	828.4	4-inch thick CONCRETE --PAVEMENT--						
		16-inch thick, white STYROFOAM --FILL--	5		2	7 13 15	3.20 B	9
	825.7	Very stiff, brown, gray and black SILTY CLAY LOAM, little gravel; damp --FILL--			3	3 5 6	2.25 P	33
	823.2	Very stiff, black, SILTY CLAY with organic matter; damp --FILL-- --RDR 2--						
		Soft, gray SILTY CLAY with organic matter; damp to moist --RDR 2--	10		4	1 2 2	0.25 P	52
	820.7	Soft to medium stiff, black and brown PEAT; damp RDR 2			5	0 0 0	0.25 B	112
			15		6	1 1 1	0.49 B	87
					7	0 1 1	0.74 B	124
			20		8	0 1 1	0.66 B	102
	810.7	Soft to medium stiff, black and gray, organic SILTY CLAY; damp to moist --RDR 2--			9	0 1 1	0.66 B	88
	806.7	Medium dense, gray, medium to coarse SAND; saturated --RDR 2-- --little gravel--	25		10	1 5 6	0.33 B	40
	803.2	Medium dense, gray SANDY GRAVEL; saturated --RDR 2--			11	5 6 6	NP	16
	799.4	--loss of drilling mud-- Medium dense to dense, gray, fine to coarse SAND, some gravel; wet to saturated --RDR 2-3--	30		12	7 7 13	NP	7
			35		13	11 11 10	NP	13
			40		14	10 7 5	NP	14

GENERAL NOTES

Begin Drilling: 04-29-2021 Complete Drilling: 04-29-2021
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: R&J Logger: M. Sadowski Checked by: M. Snider
Drilling Method: 2.25-inch IDA HSA to 10' mud rotary thereafter, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: ▽ 24.50 ft
At Completion of Drilling: ▼ 9' Mud
Time After Drilling: NA
Depth to Water: ▽ NA

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

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
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FILE NAME: pw:\\ihs-pwint01.ei-d.transystems.com:transystems~nw11Documents\Projects\CH401 - Chicago\P401130061\40.0000\44.0000\44.0800\Contract 2\Sheet Files\123 Structural Sheets\TSC\Sheets\SN_056-W302 - Wall 2\056W302-620J3-044-BoringLog5.dgn

USER NAME = Mbeening	DESIGNED - JE	REVISED -	
	DRAWN - JE	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - TJA	REVISED -	
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 5
STRUCTURE NO. 056-W302
SHEET S3-44 OF S3-67 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	511
		CONTRACT NO. 61J93		
		ILLINOIS FED. AID PROJECT		

Page 2 of 2

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BORING LOG EPS-08

WEI Job No.: 790-77-01

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 831.15 ft
North: 2011766.88 ft
East: 983628.64 ft
Station: 2243+07.00
Offset: 4.59 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--lost drilling mud-- --cave-in--	45	15		9 9 8	NP	17
			50	16		14 20 18	NP	10
		--rig chatter; possible cobbles--	55	17		6 8 13	NP	17
	772.2	Hard, gray SILTY CLAY LOAM, little gravel; damp	60	18		13 10 10	4.35 B	11
	771.2	Boring terminated at 60.00 ft						

GENERAL NOTES

Begin Drilling: 04-29-2021 Complete Drilling: 04-29-2021
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: R&J Logger: M. Sadowski Checked by: M. Snider
Drilling Method: 2.25-inch IDA HSA to 10' mud rotary thereafter, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 24.50 ft
At Completion of Drilling: 9' Mud
Time After Drilling: NA
Depth to Water: NA
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

Page 1 of 2

Wang Engineering

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BORING LOG EPS-09

WEI Job No.: 790-77-01

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 832.09 ft
North: 2011841.36 ft
East: 983688.10 ft
Station: 2243+81.19
Offset: 55.24 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	830.8	15-inch thick ASPHALT --PAVEMENT--						
		Medium dense to dense, brown, gravelly coarse SAND; dry --AGGREGATE--	5	1		12 20 18	NP	3
	827.8	Hard, brown CLAY LOAM, some gravel; damp --FILL--		2		12 8 8	4.50 P	13
	826.6	Soft to medium stiff, black SILTY CLAY LOAM, trace organic matter; damp --RDR 2--		3		4 3 3	0.82 B	29
	822.8	Soft, gray and black, organic SILTY CLAY LOAM; damp --RDR 2--	10	4		2 1 2	0.41 B	68
	821.6	Soft, brown PEAT; moist --RDR 2--		5		1 1 2	0.41 B	115
			15	6		1 1 2	0.41 B	84
				7		0 1 2	0.41 B	214
	814.1	Soft, gray and brown, organic SILTY CLAY LOAM; damp --RDR 2--	20	8		1 1 1	0.41 B	68
	810.9	Medium dense, gray, medium SAND; saturated --RDR 2--		9		6 6 4	NP	17
			25	10		16 13 14	NP	18
	804.1	Medium dense, gray SANDY GRAVEL; saturated --RDR 3--		11		11 8 8	NP	8
			30	12		9 7 7	NP	14
		--lost drilling mud--	35	13		6 9 11	NP	9
			40	14		10 10 11	NP	10

GENERAL NOTES

Begin Drilling: 04-28-2021 Complete Drilling: 04-29-2021
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: R&J Logger: I. Nenn Checked by: M. Snider
Drilling Method: 2.25-inch IDA HSA to 10' mud rotary thereafter, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 21.50 ft
At Completion of Drilling: MUD
Time After Drilling: NA
Depth to Water: NA
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

Page 2 of 2

Wang Engineering

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BORING LOG EPS-09

WEI Job No.: 790-77-01

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 832.09 ft
North: 2011841.36 ft
East: 983688.10 ft
Station: 2243+81.19
Offset: 55.24 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	785.3	Medium dense, gray, coarse SAND, some gravel; saturated --RDR 3--	45	15		10 5 8	NP	12
			50	16		11 8 11	NP	9
	780.3	Dense to very dense, gray SANDY GRAVEL; saturated --RDR 3--	55	17		50/2	NP	
	772.1	Boring terminated at 60.00 ft	60	18		24 22 9	NP	9

GENERAL NOTES

Begin Drilling: 04-28-2021 Complete Drilling: 04-29-2021
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: R&J Logger: I. Nenn Checked by: M. Snider
Drilling Method: 2.25-inch IDA HSA to 10' mud rotary thereafter, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 21.50 ft
At Completion of Drilling: MUD
Time After Drilling: NA
Depth to Water: NA
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

USER NAME = MIbeening	DESIGNED - JE	REVISED -	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION**
	DRAWN - JE	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - TJA	REVISED -	
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -	

BORING LOGS 6
STRUCTURE NO. 056-W302
SHEET S3-45 OF S3-67 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	512
		CONTRACT NO. 61J93		
		ILLINOIS FED. AID PROJECT		

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BORING LOG MRC-01

WEI Job No.: 790-77-01

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 830.18 ft
North: 2011877.17 ft
East: 983521.47 ft
Station: 116+87.63
Offset: 72.20 RT

Depth (ft)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		829.7	6-inch thick, black SILTY LOAM --TOPSOIL--					
			Very stiff, black and dark brown SILTY CLAY LOAM, trace gravel, roots, fibers --FILL--		1	6 3 4	3.75 P	29
5					2	4 7 6	2.50 P	30
		822.2			3	2 2 1	3.00 P	28
			Medium stiff, brown, fibrous, organic SILTY CLAY		4	1 2 1	0.66 B	93
10		819.7						
			Very soft, bluish gray, fibrous SILTY LOAM L_L(%)=24, P_L(%)=14 --%Gravel=0.1-- --%Sand=18.2-- --%Silt=64.5-- --%Clay=17.2--		5	0 1 8	0.16 B	28
		817.2	Loose to medium dense, gray GRAVELLY SAND; wet		6	3 8 7	NP	14
15					7	4 5 6	NP	15
					8	3 4 4	NP	13
20								
					9	8 7 6	NP	17
		807.2	Very soft, bluish gray SILTY CLAY LOAM to SILTY CLAY					
25					10	3 3 14	< 0.25 P	22
		804.7	Medium dense, gray GRAVELLY SAND; wet		11	11 11 11	NP	15
30					12	6 9 9	NP	18
					13	9 12 13	NP	15
35								
		793.4	Stiff to very stiff, gray and reddish brown CLAY LOAM to SILTY CLAY LOAM, trace to little gravel					
40					14	4 7 8	1.00 P	16

WANGENGINC 790730.GPJ WANGENG.GDT 1/20/22

GENERAL NOTES

Begin Drilling: 02-25-2015 Complete Drilling: 02-25-2015
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: K& J Logger: A. Happel Checked by: A. Hamad
Drilling Method: 3.25-inch IDA HSA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: ▽ 10.50 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.

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BORING LOG MRC-01

WEI Job No.: 790-77-01

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 830.18 ft
North: 2011877.17 ft
East: 983521.47 ft
Station: 116+87.63
Offset: 72.20 RT

Depth (ft)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
45					15	7 8 11	2.71 B	12
50					16	6 7 10	2.05 S	12
55					17	7 8 12	3.77 B	12
		770.2	Boring terminated at 60.00 ft		18	6 9 12	2.95 B	12
60								

WANGENGINC 790730.GPJ WANGENG.GDT 1/20/22

GENERAL NOTES

Begin Drilling: 02-25-2015 Complete Drilling: 02-25-2015
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: K& J Logger: A. Happel Checked by: A. Hamad
Drilling Method: 3.25-inch IDA HSA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: ▽ 10.50 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.

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BORING LOG MRC-02

WEI Job No.: 790-77-01

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 831.73 ft
North: 2011940.07 ft
East: 983506.69 ft
Station: 116+74.16
Offset: 09.00 RT

Depth (ft)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			16-inch thick, ASPHALT --PAVEMENT--					
		830.4						
		830.0	5-inch thick, black SANDY LOAM; dry --AGGREGATE BASE--		1	8 9 7	1.50 P	9
		828.5	Stiff, brown and gray CLAY LOAM, trace gravel --FILL--					
			Medium stiff, black SILTY LOAM to SILTY CLAY LOAM, sand lenses		2	4 3 3	0.75 P	26
5			-- BURIED TOPSOIL--					
		826.2	Soft to medium stiff, black and gray SILTY CLAY, trace organic matter and roots		3	2 1 2	0.74 B	49
10					4	0 1 1	0.41 B	39
					5	0 0 0	0.25 B	54
		818.7	Very soft, gray SILTY CLAY LOAM, sand lenses		6	0 3 1	< 0.25 P	19
15		816.2	Medium dense, gray, medium to coarse GRAVELLY SAND; wet		7	6 6 7	NP	23
					8	9 8 10	NP	16
20								
		795.0	Gray, fine SAND; wet		9	9 10 9	NP	11
		793.4	--heaving sand-- Medium stiff to hard, pinkish gray CLAY LOAM, trace gravel		10	5 8 7	NP	14
25					11	10 10 11	NP	11
			--hard drilling 28.5' to 38.5'-- --possible cobbles--		12	10 11 11	NP	10
30								
					13	13 10 8	NP	12
35								
					14	6 6 6	0.50 P	15
40								

WANGENGINC 790730.GPJ WANGENG.GDT 1/20/22

GENERAL NOTES

Begin Drilling: 03-30-2015 Complete Drilling: 03-30-2015
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: R & J Logger: A. Tomaras Checked by: A. Hamad
Drilling Method: 4.00-inch OD CFA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: ▽ 5.50 ft
At Completion of Drilling: ▼ MUD
Time After Drilling: NA
Depth to Water: ▽ NA

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

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME: pw:\\hq-swint01.a-d.transystems.com:transystems-pw1\Documents\Projects\CH401 - Chicago\P401130061\40.0000\44.0000\44.0800\Contract 2\Sheet Files\23 Structural Sheets\TSC\Sheets\SN 056-W302 - Wall 2\056W302-62J93-046-BoringLog7.dgn

USER NAME = Mlbeening	DESIGNED - JE	REVISED -	
	DRAWN - JE	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - TJA	REVISED -	
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 7
STRUCTURE NO. 056-W302
SHEET S3-46 OF S3-67 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	513
		CONTRACT NO. 61J93		
	ILLINOIS	FED. AID PROJECT		

Page 2 of 2

Wang Engineering

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Fax:

BORING LOG MRC-02

WEI Job No.: 790-77-01

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 831.73 ft
North: 2011940.07 ft
East: 983506.69 ft
Station: 116+74.16
Offset: 09.00 RT

Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
45		15	9 11 11	1.25 P	13
50		16	5 7 11	2.21 B	13
55		17	7 11 13	2.00 P	13
60		18	9 10 15	2.30 B	12
65		19	6 8 12	2.71 B	12
70		20	8 13 15	2.54 B	12
75		21	8 14 19	4.59 B	12

--L_L(%)=21, P_L(%)=11--
--%Gravel=4.3--
--%Sand=34.9--
--%Silt=41.2--
--%Clay=19.5--

756.7
Boring terminated at 75.00 ft

GENERAL NOTES

Begin Drilling: 03-30-2015 Complete Drilling: 03-30-2015
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: R & J Logger: A. Tomaras Checked by: A. Hamad
Drilling Method: 4.00-inch OD CFA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

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

WANGENGINC 790701.GPJ WANGENG.GDT 1/20/22

Page 1 of 2

Wang Engineering

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BORING LOG MRC-03

WEI Job No.: 790-77-01

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 832.26 ft
North: 2011992.35 ft
East: 983494.59 ft
Station: 116+63.14
Offset: 43.52 LT

Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
0		1	10 9 8	4.50 P	10
5		2	4 4 3	4.50 P	25
		3	2 2 1	0.98 B	30
10		4	1 1 1	NP	124
		5	2 2 10	NP	16
15		6	5 7 8	NP	19
		7	5 8 11	NP	20
20		8	7 7 6	NP	13
25		9	6 7 11	NP	13
		10	11 10 9	NP	10
30		11	6 8 10	NP	20
		12	14 11 10	NP	11
35		13	5 6 5	NP	19
40		14	6 7 11	1.72 B	11

832.0 3-inch thick, black SILTY LOAM --TOPSOIL--
Medium stiff to hard, black and brown SILTY CLAY to SILTY CLAY LOAM, trace gravel --FILL--
826.8
Medium stiff, black CLAY
--%Gravel=0.3--
--%Sand=55.6--
--%Silt=34.5--
--%Clay=9.6--
823.3
Very loose, black and brown, fibrous ORGANIC SANDY LOAM
821.0
Medium dense, gray SANDY LOAM; wet
819.3
Medium dense, gray SANDY LOAM to GRAVELLY SAND; wet
--%Gravel=35.0--
--%Sand=57.6--
--%Silt=6.4--
--%Clay=1.0--
797.5
Stiff to very stiff, gray to reddish gray, CLAY LOAM to SILTY CLAY LOAM, trace gravel

GENERAL NOTES

Begin Drilling: 02-26-2015 Complete Drilling: 02-26-2015
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: K & K Logger: A. Happel Checked by: A. Hamad
Drilling Method: 3.25-inch IDA HSA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 13.00 ft
At Completion of Drilling: 18.00 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.

WANGENGINC 790701.GPJ WANGENG.GDT 1/20/22

Page 2 of 2

Wang Engineering

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BORING LOG MRC-03

WEI Job No.: 790-77-01

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 832.26 ft
North: 2011992.35 ft
East: 983494.59 ft
Station: 116+63.14
Offset: 43.52 LT

Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
45		15	7 8 10	3.94 B	14
50		16	4 6 9	2.62 B	12
55		17	7 10 15	2.46 B	12
60		18	6 9 14	1.80 B	11

772.3
Boring terminated at 60.00 ft

GENERAL NOTES

Begin Drilling: 02-26-2015 Complete Drilling: 02-26-2015
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: K & K Logger: A. Happel Checked by: A. Hamad
Drilling Method: 3.25-inch IDA HSA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 13.00 ft
At Completion of Drilling: 18.00 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.

WANGENGINC 790701.GPJ WANGENG.GDT 1/20/22

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME: pw:\\lng-pwin01.a-e.transystemscorp.com:transystemscorp-pw1\Documents\Projects\CH401 - CHicago\P401130061\40.0000\44.0800\Contract 2\Sheet Files\123 Structural Sheets\TSCSheets\SN_056-W302 - Wall 2\056W302-623\93-047-BoringLog8.dgn

USER NAME = Mbeening	DESIGNED - JE	REVISED -
	DRAWN - JE	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - TJA	REVISED -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 8
STRUCTURE NO. 056-W302
SHEET S3-47 OF S3-67 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	514
		CONTRACT NO. 61J93		
	ILLINOIS FED. AID PROJECT			

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

BORING LOG MRC-04

WEI Job No.: 790-77-01

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 831.01 ft
North: 2011914.83 ft
East: 983494.93 ft
Station: 116+61.88
Offset: 33.99 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		12-inch thick ASPHALT						
	830.0	--PAVEMENT--						
	829.4	Loose, brown SANDY LOAM, some gravel; moist			1	4 3 3	NP	10
		--BASE COURSE--						
		Loose, black, gray and brown LOAM to SILTY CLAY LOAM, trace to little gravel; moist						
	826.8	--FILL--			2	1 3 2	NR	
		Very soft to soft, black and gray CLAY to SILTY CLAY; moist	5					
		--RDR 2--			3	1 1 1	0.25 B	43
			10		4	1 1 1	0.16 B	48
	820.5	Very soft, brown and gray SILTY CLAY LOAM to LOAM, trace gravel; moist						
		--RDR 2--			5	0 1 0	< 0.25 P	94
	818.0	Very loose, gray SILTY LOAM to CLAY LOAM; saturated						
	816.7	Very soft, gray SILTY CLAY to CLAY; moist to wet	15		6	0 0 1	NP	61
	815.5	Very soft, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel; wet						
	814.4	Medium dense, gray SANDY GRAVEL to GRAVELLY SAND; wet			7	0 9 9	< 0.25 P	19
		--RDR 2-3--						
		--rig chatter--	20		8	9 8 8	NP	7
	808.0	Medium dense, gray, fine to coarse SAND, some gravel; wet			9	9 12 9	NP	10
		--RDR 2-3--	25		10	7 9 10	NP	12
		--rig chatter--			11	9 7 8	NP	13
			30		12	10 9 9	NP	14
		--rig chatter--						
			35		13	9 5 7	NP	11
	794.3	Soft, brown SILTY CLAY LOAM, little gravel; moist						
		--RDR 2-3--			14	3 2 5	0.33 B	13
		--rig chatter--	40					

GENERAL NOTES

Begin Drilling: 09-23-2021 Complete Drilling: 09-23-2021
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: NC&KG Logger: M. Rojo Checked by: M. Snider
Drilling Method: 2.25-inch IDA HSA to 10' mud rotary after, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 13.00 ft
At Completion of Drilling: 14' Mud
Time After Drilling: NA
Depth to Water: NA

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

WANGENGINC 790770101.GPJ WANGENG.GDT 1/20/22

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Lombard, IL 60148
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BORING LOG MRC-04

WEI Job No.: 790-77-01

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 831.01 ft
North: 2011914.83 ft
East: 983494.93 ft
Station: 116+61.88
Offset: 33.99 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	789.3	Stiff to hard, brown SILTY CLAY LOAM, little gravel; damp to moist						
		--RDR 2-3--						
			45		15	3 4 8	1.39 B	13
		--rig chatter--						
			50		16	5 5 10	2.21 B	11
		--rig chatter--						
			55		17	6 9 10	3.44 B	11
		--rig chatter--						
			60		18	6 9 10	1.64 B	13
		--hard rig chatter--						
			65		19	7 12 10	3.44 B	11
		--rig chatter--						
			70		20	15 19 35	NR	
			75		21	20 23 32	NR	
	751.0	Boring terminated at 80.00 ft						
			80		22	7 10 15	5.33 B	11

GENERAL NOTES

Begin Drilling: 09-23-2021 Complete Drilling: 09-23-2021
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: NC&KG Logger: M. Rojo Checked by: M. Snider
Drilling Method: 2.25-inch IDA HSA to 10' mud rotary after, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 13.00 ft
At Completion of Drilling: 14' Mud
Time After Drilling: NA
Depth to Water: NA

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

WANGENGINC 790770101.GPJ WANGENG.GDT 1/20/22

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BORING LOG MRC-05

WEI Job No.: 790-77-01

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 831.86 ft
North: 2011962.78 ft
East: 983434.81 ft
Station: 116+02.77
Offset: 15.19 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		12-inch thick ASPHALT						
	830.9	--PAVEMENT--						
	829.4	Medium dense, brown and gray, GRAVELLY SANDY LOAM; damp			1	4 6 4	NP	4
		--FILL--						
		Stiff, black and brown SILTY CLAY LOAM, trace gravel; moist						
		--FILL--	5		2	9 2 5	1.50 P	39
	826.4	Medium stiff, black SILTY CLAY to CLAY; moist						
		--RDR 2--			3	1 2 2	0.57 B	49
	823.9	Very soft, black and brown SILTY CLAY, trace gravel; moist						
	822.9	Brown and gray GRAVELLY SAND; saturated						
		--RDR 2--	10		4	2 1 1	0.16 B	44
	820.6	Gray SANDY LOAM, trace gravel; wet						
	820.3	Very soft, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel; wet			5	1 1 1	0.16 B	29
	818.0	Medium dense, gray SANDY LOAM, trace gravel; wet	15		6	2 4 6	NP	17
	816.4	Medium dense, gray, medium to coarse SAND, trace gravel; wet						
		--RDR 2--			7	4 7 5	NP	18
	813.9	Very stiff, gray SILTY CLAY, interbedded fine sand seams, trace gravel; moist to wet						
		--RDR 2--	20		8	2 3 17	2.00 P	15
	811.4	--rig chatter--						
		Medium dense, gray SANDY GRAVEL to GRAVELLY SAND; wet			9	9 14 12	NP	10
		--RDR 2-3--						
		--rig chatter--	25		10	10 14 12	NP	8
		--rig chatter--						
		--lost drilling mud--			11	10 8 9	NP	7
			30		12	9 9 8	NP	7
		--hard rig chatter--						
	797.6	Very stiff to hard, brown SILTY CLAY LOAM to SILTY CLAY, trace to little gravel; damp	35		13	7 5 9	NR	
		--RDR 2--						
			40		14	6 7 9	3.36 B	13

GENERAL NOTES

Begin Drilling: 09-21-2021 Complete Drilling: 09-21-2021
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: NC&KG Logger: M. Rojo Checked by: M. Snider
Drilling Method: 2.25-inch IDA HSA to 10' mud rotary after, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 10.50 ft
At Completion of Drilling: 11' Mud
Time After Drilling: NA
Depth to Water: NA

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

WANGENGINC 790770101.GPJ WANGENG.GDT 1/20/22

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME: pw:\\ng-pwint01.a-e.transyscorp.com:transyscorp-jw10\Documents\Projects\CH401 - Chicago\P401130061\40.0000\44.0000\44.0800\Contract 2\Sheet Files\23 Structural Sheets\TSCISheets\SN_056-W302 - Wall 2\056W302-62J93-04B-BoringLog9.dgn

USER NAME = Mlbeening	DESIGNED - JE	REVISED -
	DRAWN - JE	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - TJA	REVISED -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 9
STRUCTURE NO. 056-W302
SHEET S3-48 OF S3-67 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	515
		CONTRACT NO. 61J93		
	ILLINOIS FED. AID PROJECT			

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Lombard, IL 60148
Telephone: (630) 953-9928
Fax:

BORING LOG MRC-05

WEI Job No.: 790-77-01

Client: **TranSystems Corporation**
Project: **Randall Road Phase II Improvements**
Location: **McHenry County, IL**

Datum: NAVD88
Elevation: 831.86 ft
North: 2011962.78 ft
East: 983434.81 ft
Station: 116+02.77
Offset: 15.19 LT

Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Soil and Rock Description
45		15	10 13 15	3.28 B	11	
50		16	8 12 15	5.74 B	11	--lost drilling mud--
55		17	7 8 11	2.95 B	11	
60		18	8 10 18	3.00 P	13	
65		19	8 13 14	5.17 B	11	
70		20	11 12 14	4.43 B	12	
75		21	11 12 20	4.51 B	11	
80		22	10 40 47	6.56 B	10	--very dense sandy loam--

751.9 Boring terminated at 80.00 ft

GENERAL NOTES

Begin Drilling: **09-21-2021** Complete Drilling: **09-21-2021**
Drilling Contractor: **Wang Testing Services** Drill Rig:
Driller: **NC&KG** Logger: **M. Rojo** Checked by: **M. Snider**
Drilling Method: **2.25-inch IDA HSA to 10' mud rotary after, auto hammer, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **10.50 ft**
At Completion of Drilling: **11' Mud**
Time After Drilling: **NA**
Depth to Water: **NA**

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

WANGENGINC 790770.GPJ WANGENG.GDT 1/20/22

Wang Engineering
wangeng@wangeng.com
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BORING LOG NB3-03

WEI Job No.: KE225090

Client: **TranSystems Corporation**
Project: **Randall Road Phase II Improvements**
Location: **McHenry County, IL**

Datum: NAVD88
Elevation: 823.70 ft
North: 2010321.37 ft
East: 983715.50 ft
Station: 2228+60.43
Offset: 74.8461 RT

Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Soil and Rock Description
0		1	1 0 1	0.57 B	15	12-inch thick GRAVEL, some organic silty clay loam; damp --FILL-- --RDR 2-3-- 822.7 Medium stiff, gray CLAY LOAM, trace organic matter; moist --RDR 2--
5		2	2 2 3	0.98 B	21	819.9 Gray, medium SAND; saturated 819.7 Medium stiff to hard, gray CLAY; damp --RDR 2--
		3	3 6 6	5.08 B	21	
10		4	5 6 8	NP	19	815.7 Medium dense, gray, fine SAND; wet --RDR 2--
		5	5 9 8	NP	11	813.2 Stiff (1.72B), gray CLAY, few sand seams; damp 812.2 Medium dense, gray, medium to coarse SAND, trace to some gravel; saturated --RDR 2--
15		6	7 12 12	NP	11	--sand heaving in augers--
		7	2 4 5	NP	17	808.2 Loose, gray SILTY LOAM, damp --RDR 2--
		8	6 7 8	5.00 B	12	806.7 Medium dense, gray, medium to coarse SAND; wet 804.4 --RDR 2-- 803.7 Hard, gray SILTY CLAY LOAM,
20						little gravel; damp Boring terminated at 20.00 ft
25						
30						
35						
40						

GENERAL NOTES

Begin Drilling: **04-16-2021** Complete Drilling: **04-16-2021**
Drilling Contractor: **Wang Testing Services** Drill Rig:
Driller: **A&M** Logger: **M. Sadowski** Checked by: **C. Marin**
Drilling Method: **3.25-inch IDA HSA, auto hammer, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **3.75 ft**
At Completion of Drilling: **4.00 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.

WANGENGINC 790791.GPJ WANGENG.GDT 5/16/23

Wang Engineering
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Fax:

BORING LOG NB3-04

WEI Job No.: KE225090

Client: **TranSystems Corporation**
Project: **Randall Road Phase II Improvements**
Location: **McHenry County, IL**

Datum: NAVD88
Elevation: 823.80 ft
North: 2010395.98 ft
East: 983714.20 ft
Station: 2229+35.70
Offset: 74.2171 RT

Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Soil and Rock Description
0		1	1 2 1	1.56 B	26	12-inch thick GRAVEL, some organic silty clay loam; damp 822.8 --FILL-- --RDR 2-3-- Medium stiff to stiff, brown to gray CLAY to SILTY CLAY; damp to wet --RDR 2--
5		2	0 2 2	1.56 B	26	--few fine sand seams; wet--
		3	3 3 7	0.90 B	27	--L_L(%)=36, P_L(%)=13-- --%Gravel=0.0-- --%Sand=2.6-- --%Silt=58.4-- --%Clay=39.0-- --A-6 (22)-- 816.5 Loose to medium dense, gray, fine SAND; wet to saturated --RDR 2--
10		4	3 4 2	NP	19	
		5	5 7 9	NP	21	810.8 Medium dense, gray, fine to coarse SAND, little to some gravel; wet to saturated --RDR 2--
15		6	6 7 9	NP	10	
		7	24 8 6	2.25 P	15	807.1 Stiff to very stiff, gray SILTY CLAY LOAM, trace gravel; damp --RDR 2-3--
20		8	5 5 7	1.15 B	13	803.8 Boring terminated at 20.00 ft

GENERAL NOTES

Begin Drilling: **04-16-2021** Complete Drilling: **04-16-2021**
Drilling Contractor: **Wang Testing Services** Drill Rig:
Driller: **A&M** Logger: **M. Sadowski** Checked by: **C. Marin**
Drilling Method: **3.25-inch IDA HSA, auto hammer, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **7.25 ft**
At Completion of Drilling: **4.00 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.

WANGENGINC 790791.GPJ WANGENG.GDT 5/16/23

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME: pw:\\hq-pwint01.a-e.transystems.com:transystems\projlib\Documents\Projects\CH401 - Chicago\P401130061\40.0000\44.0800\Contract 2\Sheet Files\S3 Structural Sheets\TSCISheets\SN_056-W302 - Wall 2\056W302-62J93-0049-BoringLog10.dgn

USER NAME = MIbeening	DESIGNED - JE	REVISED -	
	DRAWN - JE	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - TJA	REVISED -	
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 10
STRUCTURE NO. 056-W302
SHEET S3-49 OF S3-67 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	516
		CONTRACT NO. 61J93		
		ILLINOIS	FED. AID PROJECT	

Wang Engineering
wangeng@wangeng.com
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BORING LOG NB3-05

WEI Job No.: KE225090

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 830.61 ft
North: 2010459.68 ft
East: 983695.23 ft
Station: 2229+99.49
Offset: 55.5681 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	830.1	18-inch thick ASPHALT --PAVEMENT--						
	829.1	Medium dense, brown, coarse SAND; dry --BASE COURSE--			1	13 12 7	NP	4
	827.6	Medium stiff to stiff, brown to gray SILTY CLAY to SILTY CLAY LOAM; damp --RDR 2--	5		2	2 3 5	1.64 B	21
					3	3 3 3	1.89 B	20
		--few sand seams--	10		4	3 4 9	0.82 B	24
	820.1	Medium stiff, gray SILTY LOAM, few sand seams; moist --RDR 2--			5	3 3 7	0.41 B	23
	817.6	Medium dense, gray, coarse SAND; saturated --RDR 2--	15		6	8 10 12	NP	19
		--few silt seams--			7	10 10 11	NP	19
			20		8	10 10 12	NP	16
	810.1	Stiff to very stiff, gray SILTY CLAY LOAM to SILTY CLAY, trace gravel; damp --RDR 2--			9	5 6 7	1.64 B	12
			25		10	4 6 6	1.23 B	14
					11	5 6 9	1.31 B	15
			30		12	4 6 8	1.00 P	15
	793.9	Medium dense to dense, gray, medium to coarse SAND; saturated --RDR 2--	35		13	7 7 13	2.79 B	17
			40		14	13 14 13	NP	17

GENERAL NOTES

Begin Drilling: 04-26-2021 Complete Drilling: 04-27-2021
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: R&J Logger: I. Nenn Checked by: C. Marin
Drilling Method: 2.25-inch IDA HSA to 10' mud rotary after, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 13.50 ft
At Completion of Drilling: MUD
Time After Drilling: NA
Depth to Water: NA

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

WANGENGINC 7907701.GPJ WANGENG.GDT 5/16/23

Wang Engineering
wangeng@wangeng.com
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Fax:

BORING LOG NB3-05

WEI Job No.: KE225090

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 830.61 ft
North: 2010459.68 ft
East: 983695.23 ft
Station: 2229+99.49
Offset: 55.5681 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	14 18 16	NP	18
			50		16	15 14 15	NP	20
			55		17	16 14 15	NP	19
	770.6	Boring terminated at 60.00 ft	60		18	15 13 18	NP	13

GENERAL NOTES

Begin Drilling: 04-26-2021 Complete Drilling: 04-27-2021
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: R&J Logger: I. Nenn Checked by: C. Marin
Drilling Method: 2.25-inch IDA HSA to 10' mud rotary after, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 13.50 ft
At Completion of Drilling: MUD
Time After Drilling: NA
Depth to Water: NA

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

WANGENGINC 7907701.GPJ WANGENG.GDT 5/16/23

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BORING LOG NB3-06

WEI Job No.: KE225090

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 823.70 ft
North: 2010476.89 ft
East: 983713.33 ft
Station: 2230+16.62
Offset: 73.7486 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	822.7	12-inch thick, brown SANDY GRAVEL --FILL--			1	4 5 4	< 0.25 P	69
	822.4	Brown PEAT; moist						
		Very soft, dark brown Organic CLAY LOAM; moist						
	820.7	Medium stiff, gray SILTY CLAY; moist						
	819.7	Loose, gray SILT; saturated	5		2	2 3 4	0.66 B	23
	818.2	Medium dense, gray SAND to SANDY LOAM, little gravel; saturated --RDR 2--			3	6 7 8	NP	18
			10		4	6 5 6	NP	14
					5	8 7 8	NP	16
	810.7	Medium stiff to stiff, gray SILTY CLAY, trace gravel; damp to moist --RDR 2--	15		6	3 3 3	0.82 B	14
					7	4 6 8	0.75 P	14
	803.7	Boring terminated at 20.00 ft	20		8	4 6 8	1.97 B	14

GENERAL NOTES

Begin Drilling: 04-19-2021 Complete Drilling: 04-19-2021
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: J&M Logger: T. Rothschild Checked by: C. Marin
Drilling Method: 3.25-inch IDA HSA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 4.00 ft
At Completion of Drilling: 5.00 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.

WANGENGINC 7907701.GPJ WANGENG.GDT 5/16/23

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME: pw:\\ths-swint01.a-e.transystcorp.com:transystcorp-pw11\Documents\Projects\CH401 - Chicago\P401130061\40.0000\44.0000\44.0800\Contract 2\Sheet Files\123 Structural Sheets\TSC\Sheets\SN_056-W302 - Wall 2\056W302-62J93-050-BoringLog11.dgn

USER NAME = MIbeening	DESIGNED - JE	REVISED -	
	DRAWN - JE	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - TJA	REVISED -	
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 11
STRUCTURE NO. 056-W302
SHEET S3-50 OF S3-67 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	517
		CONTRACT NO. 61J93		
	ILLINOIS	FED. AID PROJECT		

BORING LOG NB3-07

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Page 1 of 1

WEI Job No.: KE225090
Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 823.98 ft
North: 2010546.20 ft
East: 983712.92 ft
Station: 2230+85.93
Offset: 73.6830 RT

Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	12-inch thick, brown SANDY GRAVEL; damp --FILL--					
823.0	Very soft, dark brown SILTY CLAY LOAM, little organic matter; moist --RDR 2--		1	4 3 8	< 0.25 P	23
821.0	Loose, gray SILTY LOAM; saturated --RDR 2--	5	2	4 4 4	NP	23
818.5	Medium dense, gray LOAM, little gravel; saturated --RDR 2--		3	5 6 8	NP	17
816.0	Medium dense, gray SANDY GRAVEL; saturated --RDR 2-- --heaving sand and gravel in augers--	10	4	3 4 10	NP	14
813.5	Medium dense, gray LOAM, little gravel; saturated --RDR 2--		5	7 5 5	NP	14
811.0	Medium stiff to stiff, gray SILTY CLAY LOAM to SILTY LOAM, trace to little gravel; moist --RDR 2--	15	6	2 2 4	0.98 B	15
			7	3 5 7	1.56 B	16
804.0		20	8	4 4 7	1.48 B	13
	Boring terminated at 20.00 ft					

GENERAL NOTES

Begin Drilling 04-19-2021 Complete Drilling 04-19-2021
Drilling Contractor Wang Testing Services Drill Rig
Driller J&M Logger T. Rothschild Checked by C. Marin
Drilling Method 3.25-inch IDA HSA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

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

WANGENGINC 7907701.GPJ WANGENG.GDT 5/16/23

BORING LOG NB3-08

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Page 1 of 1

WEI Job No.: KE225090
Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 823.94 ft
North: 2010622.61 ft
East: 983712.11 ft
Station: 2231+62.34
Offset: 73.2464 RT

Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	12-inch thick GRAVEL --FILL--					
822.9	Medium stiff, gray SILTY CLAY, few silt and sand seams; damp --RDR 3--		1	2 2 2	0.90 B	23
820.9	Very stiff, gray CLAY; damp --RDR 2--	5	2	3 3 4	2.30 B	25
818.4	Stiff, gray SILTY CLAY, few silt seams; damp --RDR 2--		3	2 3 6	1.89 B	24
815.9	Medium stiff, gray LOAM to CLAY LOAM, few sand seams; moist to wet --RDR 2--	10	4	4 4 5	0.75 P	22
813.4	Very loose, gray, fine SAND; saturated --RDR 2--		5	4 1 2	NP	19
810.9	Medium dense, gray, medium to coarse SAND; wet --RDR 2--	15	6	5 8 11	NP	12
			7	4 6 7	NP	16
805.9	Stiff, gray SILTY CLAY LOAM, little gravel; damp --RDR 2--		8	8 6 5	1.39 B	14
803.9	Boring terminated at 20.00 ft	20				

GENERAL NOTES

Begin Drilling 04-06-2021 Complete Drilling 04-06-2021
Drilling Contractor Wang Testing Services Drill Rig
Driller J&M Logger M. Sadowski Checked by C. Marin
Drilling Method 3.25-inch IDA HSA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling ▽ 8.00 ft
At Completion of Drilling ▼ MUD
Time After Drilling NA
Depth to Water ▼ NA
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 7907701.GPJ WANGENG.GDT 5/16/23

BORING LOG NB3-09

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Page 1 of 2

WEI Job No.: KE225090
Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 831.16 ft
North: 2010663.62 ft
East: 983695.08 ft
Station: 2232+03.43
Offset: 56.4226 RT

Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	15-inch thick ASPHALT --PAVEMENT--					
829.9	Medium dense to dense, brown SANDY GRAVEL; damp --FILL-- --RDR 2-3--		1	14 25 18	NP	3
		5	2	11 11 5	NP	3
824.9	Stiff to very stiff, brown to gray CLAY to SILTY LOAM, few silt seams; moist --RDR 2--		3	18 6 7	2.71 B	20
		10	4	4 4 6	2.13 B	21
			5	3 4 4	NR	
		15	6	4 4 6	1.00 P	26
815.7	Medium dense, gray, fine SAND; saturated --RDR 2--		7	8 7 7	NP	19
813.2	Medium dense, gray SILTY LOAM, few clay seams; damp to wet --RDR 2--	20	8	5 7 15	NP	22
810.7	--L_L(%)=NP, P_L(%)=NP-- --%Gravel=0.0-- --%Sand=35.3-- --%Silt=57.3-- --%Clay=7.4-- --A-4 (0)--		9	11 15 18	NP	18
	Medium dense to dense, gray, medium to coarse SAND, some gravel; moist to saturated --RDR 2--	25	10	8 10 12	NP	11
804.4	Stiff to very stiff, gray CLAY LOAM; damp --RDR 2--		11	8 9 7	NP	11
		30	12	4 3 5	1.15 B	14
799.4	Very stiff, gray SILTY CLAY LOAM, trace gravel; damp --RDR 2--	35	13	5 9 11	2.13 B	13
		40	14	10 10 13	3.03 B	14

GENERAL NOTES

Begin Drilling 04-26-2021 Complete Drilling 04-26-2021
Drilling Contractor Wang Testing Services Drill Rig
Driller R&J Logger M. Sadowski Checked by C. Marin
Drilling Method 2.25-inch IDA HSA to 10' mud rotary after, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling ▽ 15.00 ft
At Completion of Drilling ▼ MUD
Time After Drilling NA
Depth to Water ▼ NA
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 7907701.GPJ WANGENG.GDT 5/16/23

TRANSYSTEMS
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FILE NAME: pw:\\hq-pwie01.a+e.transyscorp.com:transyscorp-pw1\Documents\Projects\CH401 - Chicago\P401130063\140.0000\44.0000\44.0800\Contract_2\Sheet Files\23 Structural Sheets\TSC\Sheets\SN 056-W302 - Wall 2\056W302-62J93-051-BoringLog12.dgn

USER NAME = MIbeening	DESIGNED - JE	REVISED -	
	DRAWN - JE	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - TJA	REVISED -	
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 12
STRUCTURE NO. 056-W302

SHEET S3-51 OF S3-67 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	518
		CONTRACT NO. 61J93		
		ILLINOIS	FED. AID PROJECT	

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BORING LOG NB3-09

WEI Job No.: KE225090

Client: **TranSystems Corporation**
Project: **Randall Road Phase II Improvements**
Location: **McHenry County, IL**

Datum: NAVD88
Elevation: 831.16 ft
North: 2010663.62 ft
East: 983695.08 ft
Station: 2232+03.43
Offset: 56.4226 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	789.4	Medium dense to dense, gray, medium to coarse SAND, little gravel; wet to saturated --RDR 2--	45		15	9 11 13	NP	13
			50		16	17 26 13	NP	13
			55		17	12 13 12	NP	15
	774.4	Medium dense, gray LOAM to SANDY LOAM; wet						
	771.2	Boring terminated at 60.00 ft	60		18	12 13 16	NP	21

GENERAL NOTES

Begin Drilling: **04-26-2021** Complete Drilling: **04-26-2021**
Drilling Contractor: **Wang Testing Services** Drill Rig:
Driller: **R&J** Logger: **M. Sadowski** Checked by: **C. Marin**
Drilling Method: **2.25-inch IDA HSA to 10' mud rotary after, auto hammer, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **15.00 ft**
At Completion of Drilling: **MUD**
Time After Drilling: **NA**
Depth to Water: **NA**

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

WANGENGINC 7907701.GPJ WANGENG.GDT 5/16/23

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BORING LOG NB3-10

WEI Job No.: KE225090

Client: **TranSystems Corporation**
Project: **Randall Road Phase II Improvements**
Location: **McHenry County, IL**

Datum: NAVD88
Elevation: 823.53 ft
North: 2010696.99 ft
East: 983715.55 ft
Station: 2232+36.70
Offset: 77.0488 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	822.5	Black SANDY GRAVEL, some silty clay loam --FILL--						
	822.0	Medium stiff, brown SILTY CLAY, trace organic matter; damp			1	4 2 4	2.21 B	21
		Stiff to very stiff, brown to gray CLAY; damp to wet --RDR 2--	5		2	2 3 3	1.31 B	23
		--few silt and fine sand seams; wet--						
		--wet spoon recovery--			3	2 3 3	2.13 B	27
	815.5	Stiff, gray SILTY CLAY, few fine sand seams; damp			4	3 5 9	1.31 B	23
	814.0	Gray, fine SAND; saturated	10					
	813.0	Stiff, gray SILTY CLAY LOAM, few sand and clay lenses; damp to moist --RDR 2--			5	4 4 6	1.07 B	22
	810.5	Medium dense, gray, medium to coarse SAND; wet to saturated --RDR 2--	15		6	4 5 6	NP	17
					7	11 13 12	NP	18
	803.5	Boring terminated at 20.00 ft	20		8	5 6 8	NP	12

GENERAL NOTES

Begin Drilling: **04-07-2021** Complete Drilling: **04-07-2021**
Drilling Contractor: **Wang Testing Services** Drill Rig:
Driller: **J&M** Logger: **M. Sadowski** Checked by: **C. Marin**
Drilling Method: **3.25-inch IDA HSA, auto hammer, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **5.50 ft**
At Completion of Drilling: **6.00 ft**
Time After Drilling: **NA**
Depth to Water: **NA**

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

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BORING LOG NB3-11

WEI Job No.: KE225090

Client: **TranSystems Corporation**
Project: **Randall Road Phase II Improvements**
Location: **McHenry County, IL**

Datum: NAVD88
Elevation: 822.41 ft
North: 2010781.39 ft
East: 983717.89 ft
Station: 2233+21.09
Offset: 79.8034 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	821.4	Black SANDY GRAVEL, some silty clay loam --FILL--						
	821.1	Soft (0.25P), black and brown SILTY CLAY LOAM, trace organic matter; damp			1	1 1 2	1.48 B	24
		Stiff, brown to gray CLAY to SILTY CLAY; damp --RDR 2-- --L_L(%)=36, P_L(%)=14-- --%Gravel=0.0-- --%Sand=1.3-- --%Silt=58.6-- --%Clay=40.1-- --A-6 (22)--	5		2	1 1 2	1.48 B	29
		--few fine sand seams; wet-- --wet spoon recovery--			3	2 3 4	1.39 B	25
	814.4	Medium dense, gray, fine SAND; saturated --RDR 2--	10		4	4 5 8	NP	21
					5	5 6 6	NP	19
	809.4	Loose to medium dense, gray, coarse SAND, little gravel; wet --RDR 2--	15		6	3 4 5	NP	18
					7	7 6 5	NP	11
	802.7 802.4		20		8	4 4 6	NP	12
		Very stiff (2.75P), gray SILTY CLAY; damp						
		Boring terminated at 20.00 ft						

GENERAL NOTES

Begin Drilling: **04-07-2021** Complete Drilling: **04-07-2021**
Drilling Contractor: **Wang Testing Services** Drill Rig:
Driller: **J&M** Logger: **M. Sadowski** Checked by: **C. Marin**
Drilling Method: **3.25-inch IDA HSA, auto hammer, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **5.50 ft**
At Completion of Drilling: **6.00 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.

WANGENGINC 7907701.GPJ WANGENG.GDT 5/16/23

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FILE NAME: pw:\\hq-pwint01.a-e.transystems.com:transystems-pw1\Documents\Projects\CH401 - Chicago\P401133061\40.0000\44.0000\44.0800\Contract 2\Sheet Files\23 Structural Sheets\TSCISheets\SN_056-W302 - Wall 2\056W302-62J93-052-BoringLog13.dgn

USER NAME = Mlbeening	DESIGNED - JE	REVISED -	
	DRAWN - JE	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - TJA	REVISED -	
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 13
STRUCTURE NO. 056-W302
SHEET S3-52 OF S3-67 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	519
		CONTRACT NO. 61J93		
	ILLINOIS	FED. AID PROJECT		

Page 1 of 1

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BORING LOG NB3-14

WEI Job No.: KE225090

Client: **TranSystems Corporation**
Project: **Randall Road Phase II Improvements**
Location: **McHenry County, IL**

Datum: NAVD88
Elevation: 823.01 ft
North: 2010858.78 ft
East: 983715.23 ft
Station: 2233+98.49
Offset: 77.5307 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	822.0	Black SANDY GRAVEL, some silty clay loam --FILL--						
	820.0	Medium stiff, black and gray CLAY LOAM, little gravel, trace organic matter; moist --RDR 2--			1	1 0 1	0.50 P	23
	818.3	Soft, black and gray SILTY CLAY LOAM, trace organic matter; damp --RDR 2--	5		2	2 5 6	0.41 B	64
		Loose, gray, medium to coarse SAND; saturated --RDR 2--			3	2 3 3	NP	18
	815.0	Very stiff, gray SILTY CLAY, few fine sand seams; damp --RDR 2--	10		4	2 4 5	2.54 B	23
	812.5	Stiff to very stiff, gray CLAY, few fine sand seams; damp --RDR 2--			5	3 3 4	2.21 B	26
			15		6	3 3 3	1.31 B	27
					7	2 2 3	1.72 B	24
	803.0	Boring terminated at 20.00 ft	20		8	3 3 5	2.62 B	22

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)

GENERAL NOTES

Begin Drilling: **04-07-2021** Complete Drilling: **04-07-2021**
Drilling Contractor: **Wang Testing Services** Drill Rig:
Driller: **J&M** Logger: **M. Sadowski** Checked by: **C. Marin**
Drilling Method: **3.25-inch IDA HSA, auto hammer, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: ▽ **4.75 ft**
At Completion of Drilling: ▼ **MUD**
Time After Drilling: **NA**
Depth to Water: ▼ **NA**

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

WANGENGINC 7907701.GPJ WANGENG.GDT 5/16/23

Page 1 of 2

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BORING LOG NB3-15

WEI Job No.: KE225090

Client: **TranSystems Corporation**
Project: **Randall Road Phase II Improvements**
Location: **McHenry County, IL**

Datum: NAVD88
Elevation: 830.70 ft
North: 2010865.24 ft
East: 983692.73 ft
Station: 2234+05.06
Offset: 55.0648 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	829.5	15-inch thick ASPHALT --PAVEMENT--						
	827.7	Medium dense, brown SANDY GRAVEL; damp --FILL-- --RDR 3--			1	9 10 6	NP	3
	825.2	Hard, brown and gray CLAY LOAM, trace gravel; damp --FILL-- --RDR 2-3--	5		2	5 8 8	4.50 P	12
		Very loose to loose, gray, medium SAND, trace to little gravel; damp to moist --FILL-- --RDR 2--			3	5 4 4	NP	13
	821.5	Very soft, gray Organic SILTY CLAY LOAM, trace wood	10		4	2 1 1	0.25 P	86
	820.2	fragments; moist						
		Medium dense, gray, fine SAND; saturated --RDR 2--			5	10 10 8	NP	17
	817.7	Stiff to very stiff, gray CLAY to SILTY CLAY, few silt seams; damp --RDR 2--	15		6	3 3 6	2.50 P	23
					7	4 4 4	1.75 P	28
	812.7	Stiff to very stiff, gray CLAY, few sand seams; damp --RDR 2--	20		8	2 3 3	1.25 P	23

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	806.7				9	3 5 5	2.05 B	29
		Medium dense, gray, fine SAND; wet to saturated --RDR 2--	25		10	4 12 12	NP	21
	805.2	Stiff, gray SILTY CLAY LOAM, few sand and silt seams; damp --RDR 2--			11	4 4 7	1.23 B	24
	802.7	Medium dense, gray, medium SAND; saturated --RDR 2--	30		12	9 10 11	NP	17
	799.0	--very hard drilling; possible cobbles-- --RDR 4-- --offset boring 5 feet north and continued from 33 feet-- Medium dense, gray Gravelly coarse SAND; saturated --RDR 2--	35		13	10 14 15	NP	11
	794.0	Very stiff, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel; damp --RDR 2--	40		14	6 8 11	3.36 B	13

GENERAL NOTES

Begin Drilling: **04-26-2021** Complete Drilling: **04-27-2021**
Drilling Contractor: **Wang Testing Services** Drill Rig:
Driller: **R&J** Logger: **M. Sadowski** Checked by: **C. Marin**
Drilling Method: **2.25-inch IDA HSA to 10' mud rotary after, auto hammer, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: ▽ **10.50 ft**
At Completion of Drilling: ▼ **MUD**
Time After Drilling: **NA**
Depth to Water: ▼ **NA**

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

WANGENGINC 7907701.GPJ WANGENG.GDT 5/16/23

Page 2 of 2

Wang Engineering

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BORING LOG NB3-15

WEI Job No.: KE225090

Client: **TranSystems Corporation**
Project: **Randall Road Phase II Improvements**
Location: **McHenry County, IL**

Datum: NAVD88
Elevation: 830.70 ft
North: 2010865.24 ft
East: 983692.73 ft
Station: 2234+05.06
Offset: 55.0648 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	7 10 13	3.36 B	12
	794.0	Medium dense, gray Gravelly coarse SAND; wet --RDR 2--						
			50		16	10 11 13	NP	10
	779.0	Very stiff (2.54B), gray SILTY CLAY LOAM; damp --RDR 2--						
	776.7	Dense, gray, fine to coarse SAND, trace gravel; wet --RDR 2--	55		17	15 16 20	NP	12
	770.7	Boring terminated at 60.00 ft	60		18	17 22 20	NP	14

GENERAL NOTES

Begin Drilling: **04-26-2021** Complete Drilling: **04-27-2021**
Drilling Contractor: **Wang Testing Services** Drill Rig:
Driller: **R&J** Logger: **M. Sadowski** Checked by: **C. Marin**
Drilling Method: **2.25-inch IDA HSA to 10' mud rotary after, auto hammer, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: ▽ **10.50 ft**
At Completion of Drilling: ▼ **MUD**
Time After Drilling: **NA**
Depth to Water: ▼ **NA**

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

WANGENGINC 7907701.GPJ WANGENG.GDT 5/16/23

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME: pw:\\hg-pwin01.a-e.transystems.com:transystems-pw1\Documents\Projects\CH401 - Chicago\P401130061\400.0000\44.0800\Contract 2\Sheet Files\23 Structural Sheets\TSC\Sheets\SN_056-W302 - Wall 2\056W302-623f03-053-BoringLog14.dgn

USER NAME = Mbeening	DESIGNED - JE	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**BORING LOGS 14 STRUCTURE NO. 056-W302**
	DRAWN - JE	REVISED -		
PLOT SCALE = 2.0000 ' / in.	CHECKED - TJA	REVISED -		SHEET S3-53 OF S3-67 SHEETS
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -		

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	520
		CONTRACT NO. 61J93		
	ILLINOIS FED. AID PROJECT			

Page 1 of 1

BORING LOG NB3-16

Wang Engineering

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Telephone:
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WEI Job No.: KE225090

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 823.50 ft
North: 2010925.44 ft
East: 983712.09 ft
Station: 2234+65.17
Offset: 74.7211 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	822.5	Black SANDY GRAVEL, some silty clay loam --FILL--						
	820.5	Soft, black and brown Organic SILTY CLAY LOAM, trace gravel; damp			1	0 0 0	0.49 B	102
	818.0	Soft, gray and brown PEAT; damp --RDR 2--	5		2	0 0 0	0.25 B	104
	815.5	Medium dense, gray, medium SAND; saturated --RDR 2--			3	4 5 7	NP	15
		Medium stiff to very stiff, gray CLAY to SILTY CLAY; damp to wet --RDR 2--	10		4	2 2 2	0.97 B	22
		--L_L(%)=34, P_L(%)=13-- --%Gravel=0.0-- --%Sand=2.5-- --%Silt=61.2-- --%Clay=36.3-- --A-6 (20)--			5	2 2 4	2.21 B	27
			15		6	2 2 4	2.30 B	24
		--few fine sand seams; wet--			7	1 2 3	1.97 B	27
	803.5	Boring terminated at 20.00 ft	20		8	3 3 4	1.23 B	27

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	04-07-2021	While Drilling	5.50 ft
Complete Drilling	04-07-2021	At Completion of Drilling	2.50 ft
Drilling Contractor	Wang Testing Services	Time After Drilling	NA
Drill Rig		Depth to Water	NA
Driller	J&M	Logger	M. Sadowski
Checked by	C. Marin		
Drilling Method	3.25-inch IDA HSA, auto hammer, boring backfilled upon completion		

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

Page 1 of 1

BORING LOG NB3-17

Wang Engineering

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Telephone:
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WEI Job No.: KE225090

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 823.58 ft
North: 2011006.04 ft
East: 983712.90 ft
Station: 2235+45.76
Offset: 75.9281 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	822.6	Black SANDY GRAVEL, some silty clay loam --FILL--						
	819.6	Very loose, brown to gray, fine to coarse SAND, trace gravel; moist to wet --trace organic matter-- --FILL-- --RDR 2-3--			1	2 1 1	NP	18
	817.1	Soft, gray SILTY CLAY LOAM, trace organic matter, trace gravel; damp to moist --RDR 2--	5		2	1 0 0	0.25 P	23
		Loose to medium dense, gray, fine to medium SAND; saturated --RDR 2--			3	4 5 6	NP	18
			10		4	3 2 2	NP	17
	813.1	Very stiff, gray SILTY CLAY LOAM, few fine sand seams; damp --RDR 2--			5	2 5 4	2.05 B	22
	810.6	Stiff to very stiff, gray CLAY, few fine sand seams; damp --RDR 2--	15		6	1 2 3	2.30 B	26
					7	2 3 3	1.48 B	29
	803.6	Boring terminated at 20.00 ft	20		8	3 3 4	1.15 B	29

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	04-08-2021	While Drilling	3.00 ft
Complete Drilling	04-08-2021	At Completion of Drilling	1.50 ft
Drilling Contractor	Wang Testing Services	Time After Drilling	NA
Drill Rig		Depth to Water	NA
Driller	J&M	Logger	M. Sadowski
Checked by	C. Marin		
Drilling Method	3.25-inch IDA HSA, auto hammer, boring backfilled upon completion		

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

Page 1 of 1

BORING LOG NB3-19

Wang Engineering

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WEI Job No.: KE225090

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 824.17 ft
North: 2011179.66 ft
East: 983709.13 ft
Station: 2237+19.40
Offset: 73.0073 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	822.9	15-inch thick, brown SANDY GRAVEL; damp --FILL--						
	821.2	Very soft, dark brown CLAY LOAM; moist --RDR 2--			1	3 3 4	< 0.25 P	23
		Loose, gray SANDY GRAVEL; saturated --RDR 3--	5		2	2 3 3	NP	7
					3	3 3 3	NP	14
	816.2	Loose, gray SAND, little gravel; saturated --RDR 2--	10		4	2 3 3	NP	10
	813.7	Loose to medium dense, gray SANDY GRAVEL; saturated --RDR 2-3--			5	7 11 10	NP	9
			15		6	3 3 4	NP	9
					7	8 5 3	NP	4
			20		8	8 7 8	NP	6
	794.2	Boring terminated at 30.00 ft	30		9	5 4 3	NP	3
			25		10	13 10 6	NP	8
					11	10 16 21	NR	
			35		12	8 6 6	NP	5
			40					

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	04-22-2021	While Drilling	2.50 ft
Complete Drilling	04-22-2021	At Completion of Drilling	0.50 ft
Drilling Contractor	Wang Testing Services	Time After Drilling	NA
Drill Rig		Depth to Water	NA
Driller	J&M	Logger	T. Rothschild
Checked by	M. Snider		
Drilling Method	3.25-inch IDA HSA, auto hammer, boring backfilled upon completion		

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

TRANSYSTEMS
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FILE NAME: pw:\\hq-siwin01.n-a.transyscorp.com:transyscorp-siw11Documents\Projects\CH401 - Chicago\P401130061\40.0000\44.0800\Contract 2\Sheet Files\23 Structural Sheets\TSC\Sheets\SN_056-W302 - Wall 2\056W302-62J93-0534-BoringLog15.dgn

USER NAME = MIbeening	DESIGNED - JE	REVISED -
	DRAWN - JE	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - TJA	REVISED -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 15
STRUCTURE NO. 056-W302
SHEET S3-54 OF S3-67 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	521
		CONTRACT NO. 61J93		
	ILLINOIS	FED. AID PROJECT		

BORING LOG NB3-20

Wang Engineering
wangeng@wangeng.com
Telephone:
Fax:

WEI Job No.: KE225090

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 824.23 ft
North: 2011228.78 ft
East: 983708.72 ft
Station: 2237+68.52
Offset: 72.8373 RT

Elevation (ft)	Soil and Rock Description
	9-inch thick, brown SANDY GRAVEL; damp --FILL--
823.5	Soft (0.25P), dark brown CLAY LOAM, trace organic matter; moist
822.6	Soft to stiff, gray SILTY CLAY; moist --RDR 1-2-- --3-inch thick silt and loam lenses-- --3-inch thick sand and loam lenses--
812.7	Medium stiff (0.90S), gray LOAM; wet
812.4	Stiff to very stiff, gray CLAY; damp to moist --RDR 2--
804.7	Loose, gray SILT to SILTY LOAM; saturated --RDR 2--
801.2	Medium dense, gray LOAM; saturated --RDR 2--
796.2	Medium dense, gray SILT; saturated --RDR 2--
794.2	Boring terminated at 30.00 ft

Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
1	1, 1, 3	0.49 B	22
2	3, 3, 2	0.90 B	25
3	2, 3, 5	0.90 B	21
4	3, 3, 3	1.25 P	20
5	2, 3, 5	0.90 B	30
6	3, 3, 3	1.64 B	23
7	2, 4, 3	2.13 B	25
8	3, 4, 5	1.97 B	21
9	3, 3, 4	NP	17
10	5, 5, 6	NP	17
11	4, 5, 7	NP	17
12	3, 4, 10	NP	19

GENERAL NOTES

Begin Drilling: 04-22-2021 Complete Drilling: 04-22-2021
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: J&M Logger: T. Rothschild Checked by: M. Snider
Drilling Method: 3.25-inch IDA HSA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 19.50 ft
At Completion of Drilling: 20.00 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.

WANGENGINC 7907701.GPJ WANGENG.GDT 5/16/23

BORING LOG NB3-22

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WEI Job No.: 790-77-01

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 825.21 ft
North: 2011386.52 ft
East: 983710.02 ft
Station: 2239+26.25
Offset: 74.9222 RT

Elevation (ft)	Soil and Rock Description
	Dark brown SANDY GRAVEL, some silty clay loam --FILL--
824.1	Very soft, black and dark brown PEAT; moist --RDR 1--
821.2	Black, organic SILTY CLAY; moist --RDR 1--
819.7	Loose to medium dense, gray LOAM; wet to saturated --RDR 2--
814.7	Medium dense, gray SAND, trace gravel; wet RDR 2
812.2	Loose to medium dense, gray LOAM, trace to little gravel; saturated --RDR 2--
795.2	Boring terminated at 30.00 ft

Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
1	0, 1, 2	< 0.25 P	238
2	0, 0, 0	< 0.25 P	240
3	3, 3, 4	NP	18
4	5, 6, 7	NP	19
5	6, 5, 7	NP	16
6	4, 5, 6	NP	18
7	3, 3, 4	NP	19
8	3, 5, 5	NP	22
9	2, 6, 6	NP	18
10	7, 6, 5	NP	19
11	4, 6, 9	NP	20
12	6, 5, 7	NP	21

GENERAL NOTES

Begin Drilling: 04-21-2021 Complete Drilling: 04-21-2021
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: J&M Logger: T. Rothschild Checked by: M. Snider
Drilling Method: 3.25-inch IDA HSA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 5.50 ft
At Completion of Drilling: 11.50 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.

WANGENGINC 7907701.GPJ WANGENG.GDT 1/20/22

BORING LOG NB3-24

Wang Engineering
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WEI Job No.: 790-77-01

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 824.56 ft
North: 2011529.17 ft
East: 983711.63 ft
Station: 2240+68.89
Offset: 77.2329 RT

Elevation (ft)	Soil and Rock Description
	Dark brown SANDY GRAVEL, some silty clay loam --FILL--
823.6	Soft, black and dark gray SILTY CLAY, trace gravel; moist --trace organic matter-- --RDR 1--
821.6	Very soft to soft, brown to dark brown PEAT; moist --RDR 1--
814.8	Gray SILT; wet
814.6	Soft, dark brown PEAT; moist --RDR 1--
811.6	Soft, dark brown SILTY CLAY, some organic matter; moist
810.6	Gray SILT; wet
810.3	Very soft to soft, dark brown to gray SILTY CLAY; moist to wet --RDR 1--
806.6	Loose to medium dense, gray LOAM, trace to little gravel; saturated --RDR 2--
799.1	Medium dense, gray, gravelly SAND; saturated --RDR 2--
796.6	Medium dense, gray LOAM, little gravel; saturated --RDR 2--
794.6	Boring terminated at 30.00 ft

Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
1	1, 1, 3	0.25 P	59
2	1, 1, 1	0.33 B	151
3	0, 0, 0	0.33 B	209
4	0, 1, 0	0.16 B	121
5	0, 0, 0	0.33 B	99
6	1, 1, 1	0.41 B	68
7	0, 0, 0	< 0.25 P	33
8	7, 9, 12	NP	22
9	1, 1, 5	NP	19
10	5, 7, 7	NP	15
11	6, 6, 8	NP	12
12	7, 7, 11	NP	15

GENERAL NOTES

Begin Drilling: 04-21-2021 Complete Drilling: 04-21-2021
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: J&M Logger: T. Rothschild Checked by: M. Snider
Drilling Method: 3.25-inch IDA HSA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 18.00 ft
At Completion of Drilling: 20.00 ft
Time After Drilling: NA
Depth to Water: NA

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WANGENGINC 7907701.GPJ WANGENG.GDT 1/20/22

TRANSYSTEMS
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FILE NAME: pw:\\hq-pwint01.a-e.transyscorp.com:transyscorp-pw1\Documents\Projects\CH401 - Chicago\P401130061\40.0000\44.0000\44.0800\Contract_2\Sheet Files\23 Structural Sheets\TSC\Sheets\SN_056-W302 - Wall 2\056W302-62J93-055-BoringLog16.dgn

USER NAME = MIbeening	DESIGNED - JE	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BORING LOGS 16 STRUCTURE NO. 056-W302	
	DRAWN - JE	REVISED -			
PLOT SCALE = 2.0000 ' / in.	CHECKED - TJA	REVISED -			
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -		SHEET S3-55 OF S3-67 SHEETS	

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	522
		CONTRACT NO. 61J93		
		ILLINOIS	FED. AID PROJECT	

Page 1 of 1

Wang Engineering

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BORING LOG NB3-25

WEI Job No.: 790-77-01

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 824.56 ft
North: 2011592.64 ft
East: 983710.35 ft
Station: 2241+72.36
Offset: 76.2645 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	824.1	Medium dense, gray Gravelly SAND; saturated						
		--RDR 2-3--			9	7 6 4	NP	12
			25		10	20 11 7	NP	8
					11	15 6 8	NP	14
	794.6		30		12	5 6 7	NP	11
		Boring terminated at 30.00 ft						

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	823.6	Dark brown SANDY GRAVEL, some silty clay loam						
		--FILL--			1	1 2 2	0.25 P	42
		Soft, dark brown and black SILTY CLAY, trace organic matter; moist						
	821.6	--RDR 1--			2	1 1 1	0.49 B	90
		Soft to medium stiff, brown PEAT; moist	5					
		--RDR 1--			3	0 0 0	0.57 B	264
			10		4	0 0 0	0.41 B	129
					5	0 0 0	0.41 B	101
	811.6	Very soft to soft, dark brown to dark greenish gray SILTY CLAY, some organic matter; moist to wet						
		--RDR 1--	15		6	0 0 0	0.41 B	86
					7	0 0 0	0.41 B	59
	805.6	Gray SILTY CLAY LOAM; moist to wet	20		8	1 2 3	< 0.25 P	29

GENERAL NOTES				WATER LEVEL DATA	
Begin Drilling	04-20-2021	Complete Drilling	04-20-2021	While Drilling	20.50 ft
Drilling Contractor	Wang Testing Services	Drill Rig		At Completion of Drilling	23.00 ft
Driller	J&M	Logger	T. Rothschild	Time After Drilling	NA
Drilling Method	3.25-inch IDA HSA, auto hammer, boring backfilled upon completion	Checked by	M. Snider	Depth to Water	NA

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

Page 1 of 1

Wang Engineering

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BORING LOG NB3-26

WEI Job No.: 790-77-01

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 825.79 ft
North: 2011681.83 ft
East: 983712.69 ft
Station: 2242+21.54
Offset: 79.0448 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	805.3	Loose, gray SAND, trace gravel; saturated						
		--RDR 3--			9	1 2 2	NP	20
	802.8	Medium dense, gray SAND, some gravel; saturated						
		--RDR 3--	25		10	9 6 9	NP	9
					11	10 7 6	NP	15
	795.8		30		12	11 13 11	NP	14
		Boring terminated at 30.00 ft						

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	825.0	Dark brown SANDY GRAVEL, some silty clay loam						
		--FILL--			1	2 3 2	0.66 B	49
		Soft to medium stiff, black SILTY CLAY, little organic matter, trace gravel; moist						
		--RDR 1-2--	5		2	1 2 1	0.41 B	70
	820.3	Soft, dark brown PEAT; moist						
		--RDR 1--			3	1 0 0	0.41 B	250
			10		4	0 1 0	0.41 B	199
	814.5	Soft, dark greenish gray to dark brown and black, organic CLAY to SILTY CLAY; moist to wet						
		--RDR 1--	15		6	0 0 0	0.41 B	92
					7	0 0 0	0.49 B	87
	806.8	Gray SILTY CLAY LOAM; moist	20		8	1 2 1	< 0.25 P	35

GENERAL NOTES				WATER LEVEL DATA	
Begin Drilling	04-20-2021	Complete Drilling	04-20-2021	While Drilling	21.00 ft
Drilling Contractor	Wang Testing Services	Drill Rig		At Completion of Drilling	22.00 ft
Driller	J&M	Logger	T. Rothschild	Time After Drilling	NA
Drilling Method	3.25-inch IDA HSA, auto hammer, boring backfilled upon completion	Checked by	M. Snider	Depth to Water	NA

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

Page 1 of 2

Wang Engineering

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BORING LOG NB3-27

WEI Job No.: 790-77-01

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 831.25 ft
North: 2011728.17 ft
East: 983688.09 ft
Station: 2242+68.01
Offset: 54.6764 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	808.2	Soft, black and gray SILTY CLAY LOAM; moist						
		--RDR 2--			9	0 1 1	0.41 B	82
	806.5	Medium dense, gray, coarse SAND; saturated						
		--RDR 2--	25		10	1 1 6	0.41 B	30
		--little gravel--			11	10 8 6	NP	13
			30		12	5 5 7	NP	14
					13	8 4 6	NP	12
	794.5	Medium dense, gray, gravelly coarse SAND; saturated						
		--RDR 2-3--			14	11 7 13	NP	8

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	830.0	15-inch thick ASPHALT --PAVEMENT--						
	829.4	5-inch thick, brown SAND --AGGREGATE--						
		2-inch thick CONCRETE --PAVEMENT--			1	2 2 1	NP	
	827.7	20-inch thick, white STYROFOAM --FILL--			2	23 20 13	NP	8
		Dense, brown SANDY LOAM, little gravel; dry	5					
	826.7	--FILL-- --RDR 2--			3	3 5 3	1.00 P	36
		Stiff, black SILTY CLAY, trace organic matter; damp						
		--FILL--			4	2 1 2	0.41 B	91
	823.2	Soft, black, organic SILTY CLAY LOAM; damp	10					
		--RDR 2--			5	0 1 2	0.25 P	212
	820.7	Very soft to soft, brown PEAT; moist						
		RDR 2	15		6	0 1 1	0.16 B	219
	815.7	Soft, black and gray, organic SILTY CLAY LOAM to SILTY LOAM; moist						
		--RDR 2--			7	1 1 1	0.41 B	101
			20		8	0 1 1	0.25 B	102

GENERAL NOTES				WATER LEVEL DATA	
Begin Drilling	04-28-2021	Complete Drilling	04-28-2021	While Drilling	25.00 ft
Drilling Contractor	Wang Testing Services	Drill Rig		At Completion of Drilling	10.00 ft
Driller	R&J	Logger	I. Nenn	Time After Drilling	NA
Drilling Method	2.25-inch IDA HSA to 10' mud rotary after, auto hammer, boring backfilled upon completion	Checked by	M. Snider	Depth to Water	NA

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

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

USER NAME = MIbeening	DESIGNED - JE	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BORING LOGS 17 STRUCTURE NO. 056-W302
	DRAWN - JE	REVISED -		
PLOT SCALE = 2.0000 ' / in.	CHECKED - TJA	REVISED -		SHEET S3-56 OF S3-67 SHEETS
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -		

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	523
		CONTRACT NO. 61J93		
		ILLINOIS	FED. AID PROJECT	

BORING LOG NB3-27

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

WEI Job No.: 790-77-01

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 831.25 ft
North: 2011728.17 ft
East: 983688.09 ft
Station: 2242+68.01
Offset: 54.6764 RT

Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
789.5	Medium dense, gray, medium SAND; saturated --RDR 3--	45	15	8, 5, 8	NP	17
784.5	Brown SILTY CLAY; damp --RDR 3--	50	16	9, 6, 8	NA	16
779.5	Gray SILT; wet --RDR 3--					
777.6	Medium stiff to stiff, pinkish gray CLAY LOAM to SILTY CLAY LOAM, trace gravel; damp --RDR 2-3--	55	17	7, 7, 9	0.50 P	19
		60	18	5, 5, 6	1.31 B	10
771.2	Boring terminated at 60.00 ft					

GENERAL NOTES

Begin Drilling 04-28-2021 Complete Drilling 04-28-2021
Drilling Contractor Wang Testing Services Drill Rig
Driller R&J Logger I. Nenn Checked by M. Snider
Drilling Method 2.25-inch IDA HSA to 10' mud rotary after, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling ▽ 25.00 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 NB3-29

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

WEI Job No.: 790-77-01

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 827.47 ft
North: 2011837.71 ft
East: 983743.16 ft
Station: 2243+77.27
Offset: 110.2822 RT

Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	Stiff, black CLAY LOAM, trace gravel; damp to moist --TOPSOIL--		1	3, 3, 2	1.00 P	22
824.5	Soft to medium stiff, black and brown Organic SILTY CLAY LOAM; damp to moist --RDR 2--	5	2	0, 0, 2	0.41 B	65
			3	0, 0, 0	0.90 B	87
819.5	Soft to medium stiff, brown and black PEAT; damp to wet --RDR 1-2--	10	4	0, 0, 0	0.49 B	131
			5	0, 0, 0	0.49 B	161
		15	6	0, 0, 0	0.49 B	130
			7	0, 0, 0	0.66 B	81
808.2	Very loose, gray, medium SAND; saturated --RDR 2--	20	8	4, 1, 1	NP	21
807.0	Medium dense, gray SANDY GRAVEL; saturated --RDR 2--		9	8, 7, 5	NP	13
		25	10	4, 5, 5	NP	8
802.0	Medium dense, gray, coarse SAND, little to some gravel; wet --RDR 2--		11	6, 5, 8	NP	10
		30	12	4, 5, 7	NP	11
797.5	Boring terminated at 30.00 ft	35				
		40				

GENERAL NOTES

Begin Drilling 04-06-2021 Complete Drilling 04-06-2021
Drilling Contractor Wang Testing Services Drill Rig
Driller J&M Logger M. Sadowski Checked by M. Snider
Drilling Method 3.25-inch IDA HSA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling ▽ 7.50 ft
At Completion of Drilling ▼ 8.00 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 RR-NB-28

Wang Engineering
wangeng@wangeng.com
Telephone:
Fax:

WEI Job No.: KE225090

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 832.02 ft
North: 2010132.18 ft
East: 983698.70 ft
Station: 2226+71.06
Offset: 48.62 RT

Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	14-inch thick, ASPHALT --PAVEMENT--					
830.9	10-inch thick, brown SANDY GRAVEL --BASE COURSE--					
830.0	Stiff to very stiff, black and dark gray CLAY LOAM, trace gravel --FILL--		1	6, 3, 6	2.50 P	14
			2	12, 12, 14, 10	1.00 P	22
827.8	Loose, black SILTY LOAM, trace organic matter, roots and shells, moist sand lenses	5	3	6, 4, 3, 4	NP	29
825.5	Medium stiff, black, brown, and gray SILTY CLAY, trace organic matter, roots		4	2, 2, 4, 5	0.82 B	19
823.4	Medium dense, gray, medium SAND --WET--	10	5	7, 7, 16, 17	NP	19
821.0	Boring terminated at 11.00 ft	15				
		20				

GENERAL NOTES

Begin Drilling 07-18-2014 Complete Drilling 07-18-2014
Drilling Contractor Wang Testing Services Drill Rig
Driller R & J Logger A. Tomaras Checked by C. Marin
Drilling Method 3.25-inch IDA HSA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling ▽ 8.75 ft
At Completion of Drilling ▼ 8.75 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.

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

USER NAME = Mlbeening	DESIGNED - JE	REVISED -	
	DRAWN - JE	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - TJA	REVISED -	
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 18
STRUCTURE NO. 056-W302

SHEET S3-57 OF S3-67 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	524

CONTRACT NO. 61J93

ILLINOIS FED. AID PROJECT

Page 1 of 1

BORING LOG RR-NB-29

Wang Engineering

wangeng@wangeng.com

Telephone:
Fax:

WEI Job No.: KE225090

Client: **TranSystems Corporation**
Project: **Randall Road Phase II Improvements**
Location: **McHenry County, IL**

Datum: NAVD88
Elevation: 830.51 ft
North: 2010427.46 ft
East: 983696.94 ft
Station: 2229+66.97
Offset: 49.47 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	829.0	18-inch thick, ASPHALT --PAVEMENT--						
	828.0	Brown SANDY GRAVEL --BASE COURSE--			1	8 4 3	NP	6
	827.1	Very stiff, black and gray CLAY LOAM --FILL--			2	3 3 5 7	NP	19
	826.1	Loose, black SILTY LOAM, trace organic matter	5		3	4 3 6 6	2.30 B	19
		Very stiff, brown and gray SILTY CLAY, sporadic silt and sand lenses			4	3 3 6 5	2.21 B	21
	819.5	Boring terminated at 11.00 ft	10		5	3 4 5 6	2.54 B	25
			15		6			
			20					

GENERAL NOTES

Begin Drilling: 07-18-2014 Complete Drilling: 07-18-2014
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: R & J Logger: A. Tomaras Checked by: C. Marin
Drilling Method: 3.25-inch IDA HSA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: DRY
At Completion of Drilling: DRY
Time After Drilling: NA
Depth to Water: NA

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

WANGENGINC 7907701.GPJ WANGENG.GDT 5/16/23

Page 1 of 1

BORING LOG RR-NB-30

Wang Engineering

wangeng@wangeng.com

Telephone:
Fax:

WEI Job No.: KE225090

Client: **TranSystems Corporation**
Project: **Randall Road Phase II Improvements**
Location: **McHenry County, IL**

Datum: NAVD88
Elevation: 831.20 ft
North: 2010730.54 ft
East: 983694.71 ft
Station: 2232+70.05
Offset: 49.24 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	829.7	18-inch thick, ASPHALT --PAVEMENT--						
	828.6	Brown SANDY GRAVEL --BASE COURSE--			1	20 17 16	NP	4
	826.9	Stiff, gray and brown, SILTY CLAY LOAM, trace gravel --FILL--	5		2	12 6 4 5	1.00 P	14
	824.4	Medium stiff, brown and gray LOAM, trace gravel --L_L(%)=32, P_L(%)=12-- --%Gravel=5.4-- --%Sand=39.9-- --%Silt=42.3-- --%Clay=12.4-- --A-6 (7)--			3	4 2 3 4	0.90 B	17
		Very stiff, gray SILT and CLAY lamination			4	6 4 6 7	2.50 P	22
	821.7	Very stiff, gray SILTY CLAY, sporadic SILT seams	10		5	4 5 7 7	2.30 B	20
	820.2	Boring terminated at 11.00 ft	15		6			
					7			
			20					

GENERAL NOTES

Begin Drilling: 07-18-2014 Complete Drilling: 07-18-2014
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: R & J Logger: A. Tomaras Checked by: C. Marin
Drilling Method: 3.25-inch IDA HSA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 6.75 ft
At Completion of Drilling: 9.00 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.

WANGENGINC 7907701.GPJ WANGENG.GDT 5/16/23

Page 1 of 1

BORING LOG RR-NB-34

Wang Engineering

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1145 N Main Street
Lombard, IL 60148
Telephone: (630) 953-9928
Fax:

WEI Job No.: 790-77-01

Client: **TranSystems Corporation**
Project: **Randall Road Phase II Improvements**
Location: **McHenry County, IL**

Datum: NAVD88
Elevation: 832.88 ft
North: 2011909.15 ft
East: 983691.31 ft
Station: 2244+48.75
Offset: 53.36 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	831.6	15-inch thick, ASPHALT --PAVEMENT--						
	831.1	6-inch thick, GRAVEL --BASE COURSE--			1	5 11 3	2.50 P	16
		Stiff to very stiff, black, brown, and gray CLAY LOAM, trace gravel --FILL--	5		2	4 3 6 14	1.50 P	16
	827.3	Loose to medium dense, black, SILTY LOAM, trace organic matter			3	12 9 6 7	NP	24
	824.1	Loose, black, organic SILTY CLAY			4	3 3 5 5	NP	26
			10		5	3 2 4 4	NP	81
					6	2 2 2 2	0.82 B	69
	819.3	Loose, black PEAT	15		7	1 2 2 2	NP	200
					8	2 1 3 3	NP	118
	816.1	Very loose, bluish gray, organic SILT			9	1 1 2 2	NP	82
	813.1		20			2 1		
	809.9	Medium dense, gray GRAVELLY SAND --Wet--			10	2 2	NP	74
		Boring terminated at 23.00 ft	25		11	3 7 7 9	NP	16
			30					
			35					
			40					

GENERAL NOTES

Begin Drilling: 07-18-2014 Complete Drilling: 07-18-2014
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: R & J Logger: A. Tomaras Checked by: C. Marin
Drilling Method: 3.25-inch IDA HSA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 19.80 ft
At Completion of Drilling: 19.80 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.

WANGENGINC 7907701.GPJ WANGENG.GDT 1/20/22

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME: pw:\\tg-pwint01.a-e.transystems.com:transystems-pw10\Documents\Projects\CH401 - Chicago\P401130061\40.0000\44.0000\44.0800\Contract 2\Sheet Files\23 Structural Sheets\TSC\Sheets\SN 056-W302 - Wall 2\056W302-623193-058-BoringLog19.dgn

USER NAME = Mbeening	DESIGNED - JE	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BORING LOGS 19 STRUCTURE NO. 056-W302
	DRAWN - JE	REVISED -		
PLOT SCALE = 2.0000 ' / in.	CHECKED - TJA	REVISED -		SHEET S3-58 OF S3-67 SHEETS
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -		

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	525
		CONTRACT NO. 61J93		
	ILLINOIS	FED. AID PROJECT		

Wang Engineering
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BORING LOG SB2-04

WEI Job No.: KE225090

Client: **TranSystems Corporation**
Project: **Randall Road Phase II Improvements**
Location: **McHenry County, IL**

Datum: NAVD88
Elevation: 825.98 ft
North: 2010332.19 ft
East: 983588.92 ft
Station: 2228+72.41
Offset: 59.17 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	825.0	Brown GRAVEL --Dry--						
	823.0	Dark brown, SILTY CLAY --Auger Cuttings--			1	11 11 9	NA	16
	820.5	Medium dense, brown medium SAND, trace gravel; wet	5		2	5 7 6	NP	24
	818.0	Stiff, brown CLAY LOAM, fine sand seams			3	4 4 5	1.25 P	19
	815.5	Medium dense, brown GRAVELLY SAND; wet	10		4	5 9 6	NP	14
		Stiff to very stiff, gray SILTY CLAY LOAM, trace gravel			5	4 6 7	2.54 B	15
			15		6	2 3 5	1.64 B	14
					7	3 5 7	1.31 B	14
			20		8	4 5 7	1.00 P	15
	794.2	Loose, gray GRAVELLY SAND; saturated			9	3 5 7	1.39 B	14
	789.5	Medium dense, gray SAND; saturated --heaving sand--	25		10	9 10 7	1.50 P	14
					11	5 6 9	1.50 P	15
			30		12	5 6 11	NA	
			35		13	1 1 4	NP	14
	786.0	Boring terminated at 40.00 ft	40		14	11 11 13	NP	20

GENERAL NOTES

Begin Drilling: **03-06-2015** Complete Drilling: **03-06-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig:
Driller: **K & K** Logger: **D.Kolpacki** Checked by: **A. Hamad**
Drilling Method: **3.25-inch IDA HSA, auto hammer, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **3.00 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.

Wang Engineering
wangeng@wangeng.com
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Fax:

BORING LOG SB2-05

WEI Job No.: KE225090

Client: **TranSystems Corporation**
Project: **Randall Road Phase II Improvements**
Location: **McHenry County, IL**

Datum: NAVD88
Elevation: 826.77 ft
North: 2010407.17 ft
East: 983581.39 ft
Station: 2229+47.43
Offset: 66.21 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	826.8	12-inch thick, dark brown SILTY CLAY --TOPSOIL--			1	6 4 3	1.89 B	16
		Stiff, brown and gray SILTY CLAY						
		--fine sand seams--	5		2	2 4 6	1.48 B	23
	821.3	Medium dense, brown fine SAND, trace gravel; saturated --interbedded clay--			3	5 5 4	NP	28
			10		4	4 7 10	NP	26
	815.5	Stiff to very stiff, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel			5	5 7 9	1.64 B	12
			15		6	3 4 9	1.75 P	14
					7	5 5 7	1.48 B	13
		--L_L(%)=18, P_I(%)=13-- --%Gravel=5.4-- --%Sand=19.0-- --%Silt=60.5--	20		8	6 8 8	1.31 B	13
		--%Clay=15.2-- --A-4 (1)--			9	3 4 6	1.56 B	14
	790.0	Loose to medium dense, gray GRAVELLY SAND; wet	25		10	5 5 7	1.31 B	14
					11	4 5 9	2.05 B	15
			30		12	7 6 8	2.62 B	16
			35		13	1 3 5	NP	14
	786.8	Boring terminated at 40.00 ft	40		14	10 11 13	NP	7

GENERAL NOTES

Begin Drilling: **03-06-2015** Complete Drilling: **03-06-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig:
Driller: **K & K** Logger: **D. Kolpacki** Checked by: **A. Hamad**
Drilling Method: **3.25-inch IDA HSA, auto hammer, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **5.50 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.

Wang Engineering
wangeng@wangeng.com
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Fax:

BORING LOG SB2-06

WEI Job No.: KE225090

Client: **TranSystems Corporation**
Project: **Randall Road Phase II Improvements**
Location: **McHenry County, IL**

Datum: NAVD88
Elevation: 827.72 ft
North: 2010486.24 ft
East: 983588.22 ft
Station: 2230+26.46
Offset: 58.86 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	827.2	6-inch thick, black SILTY LOAM --TOPSOIL--						
		Medium dense, brown SANDY LOAM, trace gravel; dry --FILL--			1	5 6 6	NP	4
	824.7	Very stiff, brown and gray SILTY CLAY, fine sand seams	5		2	3 3 6	2.05 B	21
	822.2	Medium dense, brown fine to medium SAND; saturated			3	3 7 7	NP	20
			10		4	2 6 4	NP	25
					5	9 11 15	NP	21
	814.7	Medium dense, gray GRAVELLY SAND; saturated	15		6	10 12 14	NP	15
					7	8 10 11	NP	15
	809.7	Stiff, gray SILTY CLAY LOAM, trace gravel	20		8	3 4 5	1.31 B	12
	807.2	Medium dense, brown fine to medium SAND, trace gravel; wet			9	7 6 9	NP	17
	804.7	Stiff to very stiff, gray SILTY CLAY LOAM, trace gravel	25		10	3 5 8	1.39 B	13
					11	4 5 9	2.05 B	13
			30		12	6 7 9	2.13 B	15
	790.0	Medium dense to dense, gray GRAVELLY SAND; wet	35		13	7 9 11	NP	7
	787.7	Boring terminated at 40.00 ft	40		14	12 15 17	NP	9

GENERAL NOTES

Begin Drilling: **03-05-2015** Complete Drilling: **03-05-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig:
Driller: **K & K** Logger: **A. Happel** Checked by: **A. Hamad**
Drilling Method: **3.25-inch IDA HSA, auto hammer, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **5.50 ft**
At Completion of Drilling: **8.00 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.

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME: pw:\\lng-pwin01.a-e.transystems.com:transystems~pw1\Documents\Projects\C14101 - Chicago\P401130061\40.0000\44.0000\44.0800\Contract 2\Sheet Files\123 Structural Sheets\TSC\Sheets\SN_056-W302 - Wall 2\056W302-42J93-059-BoringLog20.dgn

USER NAME = Mbeening	DESIGNED - JE	REVISED -	
	DRAWN - JE	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - TJA	REVISED -	
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 20
STRUCTURE NO. 056-W302
SHEET S3-59 OF S3-67 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	526
		CONTRACT NO. 61J93		
	ILLINOIS FED. AID PROJECT			

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

BORING LOG SB2-07

Wang Engineering
wangeng@wangeng.com
Telephone:
Fax:

WEI Job No.: KE225090
Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 828.19 ft
North: 2010557.79 ft
East: 983584.93 ft
Station: 2230+98.03
Offset: 61.67 LT

SOIL AND ROCK DESCRIPTION

- 827.7 — 6-inch thick, black SILTY LOAM --TOPSOIL--
- Very soft to very stiff, brown and gray SILTY CLAY to SILTY CLAY LOAM, trace gravel, sand seams
- 820.2 — Soft to stiff, brown and gray CLAY LOAM to SILT CLAY LOAM, sand seams
  - --L_L(%)=33, P_L(%)=15--
  - --%Gravel=7.0--
  - --%Sand=21.5--
  - --%Silt=47.2--
  - --%Clay=24.3--
  - --A-6 (11)--
- 813.7 — Gray SANDY LOAM, little gravel; moist
- 812.7 — Very stiff, gray SILTY CLAY LOAM, trace gravel
- 810.2 — Gray fine to medium SAND; saturated
- 809.2 — Medium stiff to very stiff, gray SILTY CLAY LOAM, trace gravel
- 791.4 — Medium dense to dense, gray SANDY GRAVEL; wet

Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
1	4, 4, 3	3.00 P	13
2	2, 1, 3	1.75 P	16
3	2, 2, 2	2.71 B	21
4	0, 1, 1	1.00 P	20
5	0, 1, 2	0.33 B	24
6	2, 5, 14	0.25 B	21
7	5, 8, 10	2.62 B	11
8	5, 8, 8	2.71 B	13
9	4, 5, 7	2.62 B	13
10	7, 8, 10	2.05 B	13
11	5, 6, 10	2.21 B	14
12	1, 5, 7	1.64 B	14
13	2, 5, 5	0.82 B	18
14	5, 5, 15	NP	15

GENERAL NOTES

Begin Drilling: 03-05-2015 Complete Drilling: 03-05-2015
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: K & K Logger: A. Happel Checked by: A. Hamad
Drilling Method: 3.25-inch IDA HSA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 18.00 ft
At Completion of Drilling: 17.00 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.

WANGENGINC 7907701.GPJ WANGENG.GDT 5/1/23

BORING LOG SB2-07

Wang Engineering
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Telephone:
Fax:

WEI Job No.: KE225090
Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 828.19 ft
North: 2010557.79 ft
East: 983584.93 ft
Station: 2230+98.03
Offset: 61.67 LT

SOIL AND ROCK DESCRIPTION

- 783.2 — Boring terminated at 45.00 ft

Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
15	9, 13, 20	NP	6

GENERAL NOTES

Begin Drilling: 03-05-2015 Complete Drilling: 03-05-2015
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: K & K Logger: A. Happel Checked by: A. Hamad
Drilling Method: 3.25-inch IDA HSA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 18.00 ft
At Completion of Drilling: 17.00 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.

WANGENGINC 7907701.GPJ WANGENG.GDT 5/1/23

BORING LOG SB2-08

Wang Engineering
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WEI Job No.: KE225090
Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 828.09 ft
North: 2010633.54 ft
East: 983585.53 ft
Station: 2231+73.78
Offset: 60.58 LT

SOIL AND ROCK DESCRIPTION

- 827.6 — 6-inch thick, SILTY LOAM --TOPSOIL--
- Stiff to very stiff, black, brown, and gray CLAY to SILTY CLAY, trace gravel, fine sand seams
- 818.4 — Loose to medium dense, gray fine to coarse SAND to SANDY LOAM; saturated
  - --%Gravel=0.5--
  - --%Sand=62.2--
  - --%Silt=33.6--
  - --%Clay=3.7--
  - --A-4 (0)--
- 807.6 — Medium stiff, gray SILTY CLAY LOAM, trace gravel
- 805.1 — Medium dense, gray SANDY LOAM, trace gravel; wet
- 801.6 — Very stiff to hard, gray SILTY CLAY LOAM, trace gravel
- 793.6 — Dense, gray GRAVELLY SAND; wet
- 788.1 — Boring terminated at 40.00 ft

Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
1	4, 2, 3	3.50 P	27
2	2, 2, 3	1.64 B	24
3	2, 3, 3	1.31 B	27
4	2, 7, 8	1.07 B	25
5	4, 7, 8	NP	24
6	0, 4, 3	NP	21
7	5, 6, 6	NP	13
8	4, 6, 5	NP	13
9	3, 4, 5	0.82 B	13
10	7, 8, 4	NP	11
11	7, 7, 9	5.82 B	13
12	4, 5, 9	2.21 B	14
13	6, 7, 14	4.92 B	14
14	11, 14, 16	NP	11

GENERAL NOTES

Begin Drilling: 03-04-2015 Complete Drilling: 03-04-2015
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: K & K Logger: A. Happel Checked by: A. Hamad
Drilling Method: 3.25-inch IDA HSA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 9.75 ft
At Completion of Drilling: 8.00 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.

WANGENGINC 7907701.GPJ WANGENG.GDT 5/1/23

FILE NAME: pw:\\hq-pwlel01.a+e.transyscorp.com:transyscorp-pw1\Documents\Projects\CH401 - Chicago\P401130061\40.0000\44.0000\44.0800\Contract 2\Sheet Files\23 Structural Sheets\TSC\Sheets\SN 056-W302 - Wall 2\056W302-62J93-060-BoringLog21.dgn

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

Wang Engineering

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BORING LOG SB2-09

WEI Job No.: KE225090

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 827.33 ft
North: 2010710.79 ft
East: 983587.06 ft
Station: 2232+51.03
Offset: 58.53 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	827.1	3-inch thick, dark brown SILTY LOAM --TOPSOIL--						
		Medium stiff to very stiff, gray SILTY CLAY TO CLAY, trace gravel, fine sand seams			1	2 2 3	2.50 P	21
			5		2	2 5 5	3.12 B	21
					3	3 3 4	1.23 B	20
			10		4	2 2 2	0.66 B	21
					5	2 2 2	0.82 B	28
	813.3	Medium dense, brown and gray fine to medium SAND; saturated	15		6	5 6 8	NP	21
					7	0 5 8	NP	21
			20		8	1 7 10	NP	21
	806.8	Medium dense, gray GRAVELLY SAND; saturated			9	5 12 15	NP	13
			25		10	7 9 13	NP	12
	801.8	Medium dense, gray SAND; saturated			11	14 8 8	NP	19
	799.3	Stiff to very stiff, gray SILTY CLAY, trace gravel			12	4 4 7	1.89 B	14
			30		13	5 7 12	3.20 B	18
	790.6	Medium dense, gray SANDY GRAVEL; wet			14	8 13 14	NP	10
	787.3	Boring terminated at 40.00 ft	40					

GENERAL NOTES

Begin Drilling: 03-04-2015 Complete Drilling: 03-04-2015
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: K & K Logger: A. Happel Checked by: A. Hamad
Drilling Method: 3.25-inch IDA HSA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 14.00 ft
At Completion of Drilling: 15.00 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.

WANGENGINC 7907701.GPJ WANGENG.GDT 5/1/23

BORING LOG SB2-10

WEI Job No.: KE225090

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 825.94 ft
North: 2010782.65 ft
East: 983586.53 ft
Station: 2233+22.87
Offset: 58.60 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	824.9	12-inch thick, black SILTY LOAM --TOPSOIL--						
		Medium stiff to stiff, gray SILTY CLAY to CLAY, trace gravel, fine sand seams			1	3 2 2	1.00 P	25
			5		2	1 2 3	0.82 B	24
					3	2 2 3	1.23 B	31
			10		4	2 2 3	1.23 B	24
					5	2 2 3	0.90 B	28
	811.9	Medium dense to dense, brown and gray, fine to coarse SAND to SANDY LOAM, trace gravel; saturated	15		6	5 10 10	NP	19
		--interbedded clay--			7	5 7 7	NP	24
			20		8	7 9 11	NP	21
	805.4	Medium dense to dense, gray GRAVELLY SAND; saturated			9	4 5 6	NP	12
			25		10	7 9 25	NP	12
	800.4	Stiff, gray SILTY CLAY LOAM, trace gravel			11	5 6 7	1.80 B	16
			30		12	4 5 7	1.72 B	14
	794.2	Medium dense, gray, medium to coarse SAND, little gravel; wet			13	10 10 10	NP	14
	789.2	Medium dense. gray SANDY GRAVEL			14	7 11 10	NP	8
	785.9	Boring terminated at 40.00 ft	40					

GENERAL NOTES

Begin Drilling: 03-04-2015 Complete Drilling: 03-04-2015
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: K & K Logger: A. Happel Checked by: A. Hamad
Drilling Method: 3.25-inch IDA HSA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 14.00 ft
At Completion of Drilling: 16.00 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.

WANGENGINC 7907701.GPJ WANGENG.GDT 5/1/23

BORING LOG SB2-11

WEI Job No.: KE225090

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 824.72 ft
North: 2010857.40 ft
East: 983582.89 ft
Station: 2233+97.65
Offset: 61.74 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	823.7	12-inch thick, black SILTY LOAM --TOPSOIL--						
		Very soft, brown ORGANIC SILTY LOAM to fibrous PEAT			1	2 1 2	0.25 B	97
		--Disturbed Sample--	5		2	1 1 0	NA	173
	819.2	Loose, gray SAND, trace gravel; saturated			3	2 2 2	NP	20
	817.5	Stiff, gray CLAY to SILTY CLAY, fine sand and silt lenses			4	2 1 2	1.07 B	27
			10		5	2 2 3	1.23 B	26
			15		6	2 2 3	1.07 B	29
					7	2 3 3	1.15 B	27
	806.2	Gray SAND; wet	20		8	2 3 3	1.23 B	24
	805.0	Stiff to very stiff, gray CLAY to SILTY CLAY, fine sand and silt						
		lenses			9	3 3 5	2.62 B	23
	801.7	Loose, brown, fine to medium SAND; saturated			10	5 3 6	NP	21
	799.2	Stiff, gray SILTY CLAY			11	4 6 12	1.56 B	18
	797.7	Loose, brown fine to medium SAND, trace gravel; saturated			12	4 4 3	NP	23
			30		13	8 9 10	NP	17
	793.0	Medium dense, gray GRAVELLY SAND; saturated			14	5 6 12	3.28 B	13
	788.0	Very stiff, gray SILTY CLAY, trace gravel						
	784.7	Boring terminated at 40.00 ft	40					

GENERAL NOTES

Begin Drilling: 03-03-2015 Complete Drilling: 03-03-2015
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: K & K Logger: A. Happel Checked by: A. Hamad
Drilling Method: 3.25-inch IDA HSA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 5.50 ft
At Completion of Drilling: 8.00 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.

WANGENGINC 7907701.GPJ WANGENG.GDT 5/1/23

USER NAME = MIbeening	DESIGNED - JE	REVISED -	**STATE OF ILLINOIS**	**BORING LOGS 22**	
	DRAWN - JE	REVISED -	**DEPARTMENT OF TRANSPORTATION**	**STRUCTURE NO. 056-W302**	
PLOT SCALE = 2.0000 ' / in.	CHECKED - TJA	REVISED -		SHEET S3-61 OF S3-67 SHEETS	
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -			

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	528
		CONTRACT NO. 61J93		
	ILLINOIS	FED. AID PROJECT		

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BORING LOG SB2-12

WEI Job No.: KE225090

Client: **TranSystems Corporation**
Project: **Randall Road Phase II Improvements**
Location: **McHenry County, IL**

Datum: NAVD88
Elevation: 824.69 ft
North: 2010932.66 ft
East: 983581.11 ft
Station: 2234+72.94
Offset: 63.01 LT

Depth (ft)	Elevation (ft)	Soil and Rock Description	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
0	823.7	12-inch thick, black SILTY LOAM --TOPSOIL--					
		Loose, black and brown ORGANIC SILTY LOAM		1	3 2 2	NP	150
5				2	1 0 1	NP	110
	818.2	Loose, gray SILTY LOAM; moist		3	0 0 7	NP	18
	816.7	Medium dense, gray SAND, trace gravel; saturated		4	5 6 7	NP	21
10							
	814.2	Medium stiff to very stiff, gray CLAY to SILTY CLAY, trace gravel, fine sand and silt lenses		5	3 3 3	1.80 B	25
15				6	2 2 2	1.07 B	26
				7	2 1 3	0.74 B	30
20				8	2 2 3	1.07 B	28

Depth (ft)	Elevation (ft)	Soil and Rock Description	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--L_L(%)=36, P_L(%)=17-- --%Gravel=0.0-- --%Sand=0.9-- --%Silt=57.5-- --%Clay=41.6-- --A-6 (19)--		9	2 2 3	0.57 B	30
25				10	3 3 7	0.82 B	25
				11	2 2 4	1.15 B	26
30				12	3 4 5	1.72 B	22
	790.2	Gray, fine to medium SAND; wet					
	787.9	Medium dense, gray GRAVELLY SAND; saturated					
35				13	6 7 7	2.13 B	19
	784.7	Boring terminated at 40.00 ft		14	7 8 12	NP	17
40							

GENERAL NOTES

Begin Drilling: **03-03-2015** Complete Drilling: **03-03-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig:
Driller: **K & K** Logger: **A. Happel** Checked by: **A. Hamad**
Drilling Method: **3.25-inch IDA HSA, auto hammer, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **7.50 ft**
At Completion of Drilling: **8.00 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.

WANGENGINC 7907701.GPJ WANGENG.GDT 5/1/23

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BORING LOG SB2-13

WEI Job No.: KE225090

Client: **TranSystems Corporation**
Project: **Randall Road Phase II Improvements**
Location: **McHenry County, IL**

Datum: NAVD88
Elevation: 825.77 ft
North: 2011005.07 ft
East: 983583.55 ft
Station: 2235+45.31
Offset: 60.10 LT

Depth (ft)	Elevation (ft)	Soil and Rock Description	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
0	824.5	15-inch thick, SILTY LOAM --TOPSOIL--					
		Loose to medium dense, brown and gray SANDY LOAM to SAND, trace gravel; wet		1	4 2 3	NP	76
5				2	4 4 2	NP	14
				3	12 10 9	NP	21
10				4	4 4 6	NP	16
				5	4 6 5	NP	19
15				6	4 5 5	NP	17
				7	5 6 7	NP	18
20				8	4 8 9	NP	19

Depth (ft)	Elevation (ft)	Soil and Rock Description	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	805.3	Medium dense to dense, gray GRAVELLY SAND; wet		9	8 10 11	NP	11
25				10	6 9 14	NP	9
				11	4 7 8	NP	13
30				12	6 17 11	NP	23
				13	6 9 21	NP	14
35				14	9 8 11	NP	22
	785.8	Boring terminated at 40.00 ft					
40							

GENERAL NOTES

Begin Drilling: **03-02-2015** Complete Drilling: **03-02-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig:
Driller: **K & K** Logger: **A. Happel** Checked by: **A. Hamad**
Drilling Method: **3.25-inch IDA HSA, auto hammer, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **5.50 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.

WANGENGINC 7907701.GPJ WANGENG.GDT 5/1/23

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BORING LOG SB2-14

WEI Job No.: KE225090

Client: **TranSystems Corporation**
Project: **Randall Road Phase II Improvements**
Location: **McHenry County, IL**

Datum: NAVD88
Elevation: 827.50 ft
North: 2011078.10 ft
East: 983582.99 ft
Station: 2236+18.36
Offset: 60.18 LT

Depth (ft)	Elevation (ft)	Soil and Rock Description	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
0	826.0	18-inch thick, black SILTY LOAM, trace roots --TOPSOIL--					
		Loose, brown fine to medium SAND; moist		1	3 3 6	NP	13
	824.5	Loose to medium dense, brown and gray GRAVELLY SANDY LOAM; wet --%Gravel=62.2-- --%Sand=28.7-- --%Silt=7.8-- --%Clay=1.3-- --A-1-a (0)--		2	7 6 6	NP	10
5				3	4 4 4	NP	16
	817.9	Loose to very dense, gray medium to coarse SAND, trace to little gravel; saturated		4	6 3 3	NP	25
10				5	2 2 3	NP	25
				6	2 2 3	NP	24
15				7	6 5 3	NP	21
				8	4 4 5	NP	22
20							

Depth (ft)	Elevation (ft)	Soil and Rock Description	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--heaving sand--		9	5 5 5	NP	20
25				10	13 30 20	NP	12
				11	5 6 8	NP	18
30				12	5 8 12	NP	23
		--heaving sand--		13	8 12 15	NP	17
35							
	790.7	Medium dense, gray GRAVELLY SAND; saturated					
	787.5	Boring terminated at 40.00 ft		14	17 12 12	NP	10
40							

GENERAL NOTES

Begin Drilling: **03-02-2015** Complete Drilling: **03-02-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig:
Driller: **K & K** Logger: **A. Happel** Checked by: **A. Hamad**
Drilling Method: **3.25-inch IDA HSA, auto hammer, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **5.50 ft**
At Completion of Drilling: **14.00 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.

WANGENGINC 7907701.GPJ WANGENG.GDT 5/1/23

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME: pw:\\ths-pwint01.a-e.transystcorp.com:transystcorp-pw11\Documents\Projects\CH401 - Chicago\P401130061\40.0000\44.0000\44.0800\Contract 2\Sheet Files\S3 Structural Sheets\TSC\Sheets\TSC Sheets\SN_056-W302 - Wall 2\056W302-62J93-062-BoringLog23.dgn

USER NAME = MIbeening	DESIGNED - JE	REVISED -	
	DRAWN - JE	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - TJA	REVISED -	
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 23
STRUCTURE NO. 056-W302
SHEET S3-62 OF S3-67 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	529
		CONTRACT NO. 61J93		
		ILLINOIS	FED. AID PROJECT	

Wang Engineering

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Fax:

BORING LOG SB2-15

WEI Job No.: KE225090

Client: **TranSystems Corporation**
Project: **Randall Road Phase II Improvements**
Location: **McHenry County, IL**

Datum: NAVD88
Elevation: 827.19 ft
North: 2011154.51 ft
East: 983576.31 ft
Station: 2236+94.79
Offset: 66.36 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	827.0	2-inch thick, SILTY LOAM --TOPSOIL--						
		Medium stiff to stiff, black and brown SILTY CLAY LOAM, trace gravel			1	2 3 3	1.15 B	23
	823.2	Loose, gray, fine to medium SAND, trace; saturated	5		2	4 4 4	NP	20
	821.7	Loose to medium dense, brown GRAVELLY SAND; saturated			3	5 8 10	NP	14
	819.2	Medium dense, brown and gray, fine to medium SAND to SANDY LOAM; saturated	10		4	6 7 8	NP	28
					5	7 7 8	NP	19
			15		6	4 6 7	NP	23
	811.7	Medium dense, gray, gravelly SAND; saturated			7	4 5 5	NP	11
	809.2	Loose to medium dense, gray, medium SAND, trace to little gravel; wet	20		8	3 4 5	NP	21
					9	5 6 7	NP	14
			25		10	6 6 7	NP	13
		--%Gravel=7.8-- --%Sand=88.6-- --%Silt and Clay=19.2--			11	4 5 5	NP	14
	799.2	Medium dense, gray GRAVELLY SAND; wet --heaving sand--	30		12	4 6 7	NP	11
			35		13	4 8 7	NP	20
			40		14	7 9 9	NP	7
	787.2	Boring terminated at 40.00 ft						

GENERAL NOTES

Begin Drilling: **02-27-2015** Complete Drilling: **02-27-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig:
Driller: **K & K** Logger: **A. Happel** Checked by: **A. Hamad**
Drilling Method: **3.25-inch IDA HSA, auto hammer, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: ▽ **8.00 ft**
At Completion of Drilling: ▼ **17.00 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.

WANGENGINC 790770.GPJ WANGENG.GDT 5/1/23

Wang Engineering

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BORING LOG MIL-03

WEI Job No.: 790-77-01

Client: **TranSystems Corporation**
Project: **Randall Road Phase II Improvements**
Location: **McHenry County, IL**

Datum: NAVD88
Elevation: 832.81 ft
North: 2011971.38 ft
East: 983750.19 ft
Station: 51+13.05
Offset: 22.80 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		10-inch thick, ASPHALT						
	832.0	--PAVEMENT--						
	831.5	8-inch thick, brown SANDY GRAVEL --BASE COURSE--			1	11 6 4 4	NP	10
		Loose, pinkish brown to dark brown SILTY LOAM to LOAM, trace to little gravel --FILL--	5		2	4 4 4 4	NP	2
		-DRY-			3	5 3 6 7	NP	0
	825.3	Loose to medium dense, black LOAM to SILTY LOAM with sand and silt lenses, trace organic matter			4	11 7 5 5	NP	14
		--moist--	10		5	6 2 2 2	NP	24
	822.0	Brown, medium SAND to SANDY LOAM			6	1 1 1 3	NP	65
	820.8	--wet-- Very loose, black and brown, organic SILT and LOAM to fibrous PEAT --L_L(%)=67, P_L(%)=19-- --%Gravel=5.6-- --%Sand=37.7-- --%Silt=38.8-- --%Clay=17.9-- --A-7-6 (23)--	15		7	1 1 1 2	NP	49
					8	1 2 1 1	NP	78
	815.6	Medium dense, gray, medium SAND, little gravel --wet--			9	3 5 11 12	NP	11
	813.8	Boring terminated at 19.00 ft	20					

GENERAL NOTES

Begin Drilling: **10-27-2014** Complete Drilling: **10-27-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig:
Driller: **N & M** Logger: **A. Tomaras** Checked by: **A.Hamad**
Drilling Method: **2.25-inch IDA HSA, auto hammer, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: ▽ **9.50 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.

WANGENGINC 790770.GPJ WANGENG.GDT 1/20/22

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Telephone: (630) 953-9928
Fax:

BORING LOG SB2-15

WEI Job No.: 790-77-01

Client: **TranSystems Corporation**
Project: **Randall Road Phase II Improvements**
Location: **McHenry County, IL**

Datum: NAVD88
Elevation: 827.19 ft
North: 2011154.51 ft
East: 983576.31 ft
Station: 2236+94.79
Offset: 66.36 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	827.0	2-inch thick, SILTY LOAM --TOPSOIL--						
		Medium stiff to stiff, black and brown SILTY CLAY LOAM, trace gravel			1	2 3 3	1.15 B	23
	823.2	Loose, gray, fine to medium SAND, trace; saturated	5		2	4 4 4	NP	20
	821.7	Loose to medium dense, brown GRAVELLY SAND; saturated			3	5 8 10	NP	14
	819.2	Medium dense, brown and gray, fine to medium SAND to SANDY LOAM; saturated	10		4	6 7 8	NP	28
					5	7 7 8	NP	19
			15		6	4 6 7	NP	23
	811.7	Medium dense, gray, gravelly SAND; saturated			7	4 5 5	NP	11
	809.2	Loose to medium dense, gray, medium SAND, trace to little gravel; wet	20		8	3 4 5	NP	21
					9	5 6 7	NP	14
			25		10	6 6 7	NP	13
		--%Gravel=7.8-- --%Sand=88.6-- --%Silt and Clay=19.2--			11	4 5 5	NP	14
	799.2	Medium dense, gray GRAVELLY SAND; wet --heaving sand--	30		12	4 6 7	NP	11
			35		13	4 8 7	NP	20
			40		14	7 9 9	NP	7
	787.2	Boring terminated at 40.00 ft						

GENERAL NOTES

Begin Drilling: **02-27-2015** Complete Drilling: **02-27-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig:
Driller: **K & K** Logger: **A. Happel** Checked by: **A. Hamad**
Drilling Method: **3.25-inch IDA HSA, auto hammer, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: ▽ **8.00 ft**
At Completion of Drilling: ▼ **17.00 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.

WANGENGINC 790770.GPJ WANGENG.GDT 1/20/22

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME: pw:\\ng-pwint01.a-e.transyscorp.com:transyscorp-pw1\Documents\Projects\CH401 - Chicago\P401130061\40.0000\44.0000\44.0800\Contract 2\Sheet Files\23 Structural Sheets\TSC\Sheets\SN_056-W302 - Wall 2\056W302-R2\93-063-BoringLog24.dgn

USER NAME = Mlbeening	DESIGNED - JE	REVISED -
	DRAWN - JE	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - TJA	REVISED -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 24
STRUCTURE NO. 056-W302
SHEET S3-63 OF S3-67 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	530
		CONTRACT NO. 61J93		
	ILLINOIS FED. AID PROJECT			

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BORING LOG SB2-16

WEI Job No.: 790-77-01

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 825.82 ft
North: 2011237.23 ft
East: 983574.63 ft
Station: 2237+77.52
Offset: 67.49 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	825.6	3-inch thick, black SILTY LOAM --TOPSOIL--						
		Very soft to very stiff, black, brown, and red, organic SILTY CLAY to SILTY LOAM			1	5 4 3	2.00 P	54
			5		2	2 1 2	0.25 P	176
		--%Gravel=0.1-- --%Sand=21.8-- --%Silt=69.5-- --%Clay=8.6-- --A-4 (0)--			3	1 1 0	0.16 B	119
			10		4	0 0 0	0.25 P	39
	815.3	Very soft, gray CLAY, trace sand seams			5	0 0 0	0.00 P	22
	812.1	Loose, gray LOAM; wet	15		6	1 2 4	NP	19
	810.3	Medium stiff to stiff, gray SILTY CLAY to SILTY CLAY LOAM, silt laminations			7	3 3 3	0.66 B	24
			20		8	4 4 5	1.07 B	22
	794.1	Stiff, gray CLAY LOAM						
		--L_L(%)=28, P_L(%)=15-- --%Gravel=0.0-- --%Sand=1.5-- --%Silt=65.9-- --%Clay=32.6-- --A-6 (11)--			9	3 5 4	0.98 B	25
			25		10	3 5 5	1.31 B	24
					11	3 4 5	1.31 B	18
			30		12	3 3 4	1.07 B	22
	786.8	Medium dense, gray, medium to fine SAND, little gravel; wet			13	4 5 10	1.89 B	17
	785.8	Boring terminated at 40.00 ft	35		14	5 7 8	NP	20
			40					

GENERAL NOTES

Begin Drilling: 02-27-2015 Complete Drilling: 02-27-2015
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: K & K Logger: A. Happel Checked by: A. Hamad
Drilling Method: 3.25-inch IDA HSA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: ▽ 10.50 ft
At Completion of Drilling: ▼ 22.00 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 SB2-17

WEI Job No.: 790-77-01

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 825.63 ft
North: 2011307.22 ft
East: 983570.68 ft
Station: 2238+47.54
Offset: 70.98 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	825.4	3-inch, black SILTY LOAM --TOPSOIL--						
		Very stiff, black and brown SILTY CLAY, trace gravel and organic matter			1	3 2 3	2.50 P	48
			5		2	2 1 1	2.00 P	43
	820.1	Very loose, brown, fibrous PEAT			3	1 0 1	NP	304
			10		4	0 0 0	NP	263
	815.1	Very loose to loose, gray and white SILTY LOAM, trace organic matter; wet			5	1 4 2	NP	23
			15		6	1 1 1	NP	49
	810.1	Loose, brown and gray SANDY LOAM; moist			7	4 1 5	NP	18
	807.6	Very loose, blue and gray SILTY LOAM; wet			8	0 0 0	NP	37
	805.1	Medium stiff, gray SILTY CLAY LOAM to SILTY LOAM						
		--L_L(%)=20, P_L(%)=13-- --%Gravel=0.0-- --%Sand=17.9-- --%Silt=60.8-- --%Clay=21.3-- --A-4 (3)--			9	0 0 3	0.75 P	19
			25		10	2 2 2	0.75 P	24
	800.1	Very loose to medium dense, brown and gray SANDY LOAM to SAND, saturated			11	0 3 5	NP	24
			30		12	3 2 2	NP	21
	791.6	Medium dense, gray, gravelly SAND; saturated			13	0 0 4	NP	27
			35		14	8 12 13	NP	18
			40					

GENERAL NOTES

Begin Drilling: 02-25-2015 Complete Drilling: 02-25-2015
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: K &J Logger: A. Happel Checked by: A. Hamad
Drilling Method: 3.25-inch IDA HSA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: ▽ 10.50 ft
At Completion of Drilling: ▼ 32.00 ft
Time After Drilling: 24 hrs hours
Depth to Water: ▽ NA

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

BORING LOG SB2-17

WEI Job No.: 790-77-01

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 825.63 ft
North: 2011307.22 ft
East: 983570.68 ft
Station: 2238+47.54
Offset: 70.98 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	781.6	Stiff, gray SILTY CLAY LOAM, trace gravel	45		15	4 5 6	1.31 B	19
	778.9	Very dense, gray SANDY GRAVEL			16	12 16 57	NP	6
	775.6	Boring terminated at 50.00 ft	50					
			55					
			60					

GENERAL NOTES

Begin Drilling: 02-25-2015 Complete Drilling: 02-25-2015
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: K &J Logger: A. Happel Checked by: A. Hamad
Drilling Method: 3.25-inch IDA HSA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: ▽ 10.50 ft
At Completion of Drilling: ▼ 32.00 ft
Time After Drilling: 24 hrs hours
Depth to Water: ▽ NA

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

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FILE NAME: pw:\\hs-pwint01.ai-e.transyscorp.com:transysscorp.com~pw11Documents\Projects\CH401 - Chicago\P401130061\40.0000\44.0000\44.0800\Contract 2\Sheet Files\23 Structural Sheets\TSCISheets\SN_DSS-W302 - Wall 2\DS6W302-62J93-064-BoringLog25.dgn

USER NAME = Mlbeening	DESIGNED - JE	REVISED -	
	DRAWN - JE	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - TJA	REVISED -	
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 25
STRUCTURE NO. 056-W302
SHEET S3-64 OF S3-67 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	531
		CONTRACT NO. 61J93		
		ILLINOIS FED. AID PROJECT		

Page 1 of 1

Wang Engineering

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BORING LOG SB2-18

WEI Job No.: 790-77-01

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 825.84 ft
North: 2011383.11 ft
East: 983569.17 ft
Station: 2239+23.44
Offset: 71.99 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	825.4	Dark brown SILTY LOAM --TOPSOIL--						
		Very stiff, dark brown SILTY CLAY --FILL--			1	2 3 4	2.25 P	38
	822.8	Loose, black and brown, organic SILTY LOAM	5		2	3 2 1	NP	117
	820.3	Very loose, brown PEAT			3	1 1 0	NP	347
	817.8	Very loose, brown, organic SILT	10		4	0 1 0	NP	141
					5	0 0 0	NP	97
			15		6	0 1 0	NP	103
	810.3	Very loose, dark brown SILT, organic odor			7	1 0 1	NP	77
	807.8	Very loose to medium dense, gray, fine SAND; saturated	20		8	1 1 1	NP	24
		--interbedded clay--	25		9	5 7 6	NP	23
					10	5 6 7	NP	20
					11	7 9 11	NP	20
		--interbedded clay--	30		12	6 9 12	NP	22
		--interbedded silt and clay--	35		13	6 10 11	NP	19
			40		14	11 11 16	NP	18
	785.8	Boring terminated at 40.00 ft						

GENERAL NOTES

Begin Drilling: 03-12-2015 Complete Drilling: 03-12-2015
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: N & R Logger: D. Kolpacki Checked by: A. Hamad
Drilling Method: 3.25-inch IDA HSA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: ▽ 18.00 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.

Page 1 of 1

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BORING LOG SB2-19

WEI Job No.: 790-77-01

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 825.66 ft
North: 2011460.28 ft
East: 983571.17 ft
Station: 2240+00.59
Offset: 69.49 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	825.5	7-inch thick dark brown SILTY LOAM --TOPSOIL--						
		Stiff, dark brown CLAY --FILL--			1	3 4 4	1.50 P	36
	822.7	Very loose, brown PEAT	5		2	2 1 0	NP	246
					3	1 0 0	NP	328
	815.2	Very loose, black, brown, and gray, organic SILT, trace shells and sand lenses --L_L(%)=85, P_L(%)=51-- --%Gravel=0.1-- --%Sand=9.8-- --%Silt=79.8-- --%Clay=10.3-- --A-7-5 (41)--	10		4	0 0 0	NP	218
					5	0 0 0	NP	134
			15		6	0 1 0	NP	113
					7	1 0 0	NP	90
	807.7	Very loose, black and gray SILT, interbedded sand; wet	20		8	1 0 1	NP	25
	805.2	Loose to medium dense, gray SAND; saturated			9	2 3 6	NP	30
		--interbedded silt--	25		10	2 4 4	NP	28
					11	4 5 6	NP	18
		--interbedded silt and clay--	30		12	5 5 6	NP	21
	793.9	Medium dense, gray, gravelly SAND; saturated			13	5 6 10	NP	15
			35		14	7 12 11	NP	9
	785.7	Boring terminated at 40.00 ft	40					

GENERAL NOTES

Begin Drilling: 02-17-2015 Complete Drilling: 02-17-2015
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: P & N Logger: D. Kolpacki Checked by: A. Hamad
Drilling Method: 3.25-inch IDA HSA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: ▽ 3.00 ft
At Completion of Drilling: ▽ 4.00 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.

Page 1 of 1

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BORING LOG SB2-20

WEI Job No.: 790-77-01

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 825.25 ft
North: 2011533.22 ft
East: 983571.14 ft
Station: 2240+73.56
Offset: 69.02 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	824.8	5-inch thick dark brown SILTY LOAM --TOPSOIL--						
		Stiff, dark brown CLAY --FILL--			1	2 2 3	1.25 P	44
	822.3	Very loose, brown, organic SILT	5		2	2 1 2	NP	136
		--%Gravel=0.0-- --%Sand=25.2-- --%Silt=66.7-- --%Clay=8.1-- --A-4 (0)--			3	1 0 0	NP	127
	817.3	--interbedded fine sand-- Very loose, brown PEAT	10		4	1 0 1	NP	220
					5	1 0 0	NP	79
			15		6	1 0 1	NP	105
					7	1 2 6	NP	95
	806.3	Medium dense, gray, gravelly SAND; saturated	20		8	2 3 7	NP	15
	804.8	Medium dense, gray SAND, trace gravel; saturated			9	9 8 8	NP	10
		--heaving sand--	25		10	5 6 5	NP	17
		--heaving sand--			11	8 9 10	NP	14
	797.3	Very stiff, gray SILTY CLAY LOAM, trace gravel	30		12	5 5 6	2.50 P	9
	793.0	Medium dense, gray, gravelly SAND; wet --heaving sand--			13	6 7 7	NP	11
		--hard drilling-- --possible cobbles--	35		14	14 15 9	NP	8
	785.3	Boring terminated at 40.00 ft	40					

GENERAL NOTES

Begin Drilling: 02-16-2015 Complete Drilling: 02-16-2015
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: P & N Logger: D. Kolpacki Checked by: A. Hamad
Drilling Method: 3.25-inch IDA HSA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: ▽ 8.00 ft
At Completion of Drilling: ▽ 7.00 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.

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
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(847) 605-9600

FILE NAME: pw:\\ilpw-pwin01.a-e.transystemscorp.com:transystemscorp-pw1\Documents\Projects\C14G1 - CHicago\P401130061\40.0000\44.0000\44.0800\Contract 2\Sheet Files\23 Structural Sheets\TSC\Sheets\SN_056-W302 - Wall 2\056W302-62J93-065-BoringLog26.dgn

USER NAME = Mbeening	DESIGNED - JE	REVISED -
	DRAWN - JE	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - TJA	REVISED -
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 26
STRUCTURE NO. 056-W302
SHEET S3-65 OF S3-67 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	532
		CONTRACT NO. 61J93		
	ILLINOIS FED. AID PROJECT			

Page 1 of 2

Wang Engineering

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BORING LOG SB2-21

WEI Job No.: 790-77-01

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 825.51 ft
North: 2011608.98 ft
East: 983570.89 ft
Station: 2241+49.29
Offset: 68.78 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	825.0	6-inch thick dark brown SILTY LOAM --TOPSOIL--						
		Medium stiff, dark brown CLAY --FILL--			1	1 2 2	0.75 P	46
	822.5	Very loose, brown, organic SILT	5		2	2 1 1	NP	141
	818.5	Brown SAND; saturated			3	2 2 1	NP	149
	817.5	Very loose, brown, organic SILT to SILTY LOAM, trace shells, interbedded silt and fine sand	10		4	1 0 1	NP	142
					5	1 0 0	NP	84
			15		6	0 0 0	NP	135
		--%Gravel=0.1-- --%Sand=11.6-- --%Silt=79.3-- --%Clay=9.1-- --A-4 (0)--			7	1 0 0	NP	74
	807.5	Very loose to loose, gray SILTY LOAM, interbedded fine sand; saturated	20		8	0 1 0	NP	36
	803.5	Medium dense, gray, medium SAND, some gravel; wet			9	1 3 10	NP	30
	800.0	Medium dense, gray, gravelly SAND; wet	25		10	5 8 9	NP	15
	797.5	Dense, gray, medium SAND, some gravel; saturated			11	10 12 16	NP	11
			30		12	15 18 19	NP	28
	793.8	Medium dense, gray, gravelly SAND; wet			13	6 9 9	NP	11
	788.8	Medium dense, gray, medium SAND; wet	35		14	10 13 16	NP	13
	786.0	Stiff (1.8B), gray SILTY CLAY						
	785.5		40					

GENERAL NOTES

Begin Drilling: 02-16-2015 Complete Drilling: 02-16-2015
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: P & N Logger: D. Kolpacki Checked by: A. Hamad
Drilling Method: 3.25-inch IDA HSA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: ▽ 7.00 ft
At Completion of Drilling: ▼ 4.00 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.

WANGENG INC 790770.GPJ WANGENG.GDT 1/20/22

Page 2 of 2

Wang Engineering

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BORING LOG SB2-21

WEI Job No.: 790-77-01

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 825.51 ft
North: 2011608.98 ft
East: 983570.89 ft
Station: 2241+49.29
Offset: 68.78 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		LOAM, trace gravel						
		Boring terminated at 40.00 ft	45					
			50					
			55					
			60					

GENERAL NOTES

Begin Drilling: 02-16-2015 Complete Drilling: 02-16-2015
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: P & N Logger: D. Kolpacki Checked by: A. Hamad
Drilling Method: 3.25-inch IDA HSA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: ▽ 7.00 ft
At Completion of Drilling: ▼ 4.00 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.

WANGENG INC 790770.GPJ WANGENG.GDT 1/20/22

Page 1 of 1

Wang Engineering

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BORING LOG SB2-22

WEI Job No.: 790-77-01

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 826.11 ft
North: 2011684.97 ft
East: 983570.97 ft
Station: 2242+25.28
Offset: 68.20 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	825.6	6-inch thick dark brown SILTY LOAM --TOPSOIL--						
		Stiff, dark brown CLAY to SILTY CLAY --FILL--			1	1 2 2	1.00 P	74
	820.6	Very loose, brown, organic SILT and PEAT, interbedded fine sand	5		2	2 3 1	1.00 P	35
					3	1 0 0	NP	148
			10		4	0 1 0	NP	109
	813.1	Very loose, black and brown, organic SILT, trace shells			5	0 1 1	NP	131
			15		6	0 0 0	NP	92
		--L_L(%)=67, P_L(%)=33-- --%Gravel=0.0-- --%Sand=3.6-- --%Silt=86.3-- --%Clay=10.0-- --A-7-5 (40)--			7	0 1 0	NP	66
			20		8	0 1 1	NP	92
	805.6	Loose, gray SILT, interbedded sand; saturated			9	2 2 2	NP	27
	801.5	Medium dense, gray, gravelly SAND; saturated	25		10	3 1 2	NP	26
					11	9 12 9	NP	14
			30		12	5 8 10	NP	14
					13	11 11 10	NP	17
	786.1	Boring terminated at 40.00 ft	40		14	7 10 11	NP	16

GENERAL NOTES

Begin Drilling: 02-10-2015 Complete Drilling: 02-13-2015
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: P & N Logger: D. Kolpacki Checked by: A. Hamad
Drilling Method: 3.25-inch IDA HSA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: ▽ 9.00 ft
At Completion of Drilling: ▼ 6.00 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.

WANGENG INC 790770.GPJ WANGENG.GDT 1/20/22

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME: pw:\\ltg-pwint01.a-e.transystems.com:transystemspw1\Documents\Projects\CH401 - Chicago\P401130061\40.0000\44.0000\44.0800\Contract 2\Sheet Files\123 Structural Sheets\TSC\Sheets\SN 056-W302 - Wall 2\056W302-62J93-066-BoringLog27.dgn

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	DRAWN - JE	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - TJA	REVISED -	
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 27
STRUCTURE NO. 056-W302
SHEET S3-66 OF S3-67 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	533
		CONTRACT NO. 61J93		
	ILLINOIS	FED. AID PROJECT		

Wang Engineering

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

BORING LOG SB2-23

WEI Job No.: 790-77-01

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 826.54 ft
North: 2011759.41 ft
East: 983571.02 ft
Station: 2242+99.60
Offset: 67.67 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	826.0	6-inch thick dark brown SILTY LOAM --TOPSOIL--						
		Stiff, dark brown SILTY CLAY --FILL--			1	2 2 2	1.00 P	55
	823.5	Very loose, brown, organic SILTY LOAM to SILT --%Gravel=0.2-- --%Sand=34.1-- --%Silt=54.4-- --%Clay=11.3-- --A-4 (0)--	5		2	2 0 1	NP	87
					3	2 1 2	NP	108
	818.5	Very loose, brown PEAT --interbedded wet sand--	10		4	0 1 1	NP	196
	816.0	Very loose, brown, organic SILT			5	0 1 1	NP	123
		--shells--	15		6	0 1 0	NP	111
					7	1 0 1	NP	86
	808.5	Very loose, black, brown, and gray SILT with interbedded sand and clay; saturated	20		8	0 0 0	NP	35
	804.4	Loose to dense, gray, gravelly SAND; saturated			9	1 0 1	NP	25
			25		10	4 4 3	NP	17
					11	8 9 8	NP	6
			30		12	5 8 6	NP	26
			35		13	6 7 8	NP	11
					14	10 18 19	NP	8
	786.5	Boring terminated at 40.00 ft	40					

GENERAL NOTES

Begin Drilling: 02-10-2015 Complete Drilling: 02-10-2015
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: P & N Logger: D. Kolpacki Checked by: A. Hamad
Drilling Method: 3.25-inch IDA HSA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 7.00 ft
At Completion of Drilling: 5.00 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.

WANGENG.GDT 1/20/22 790701.GPJ WANGENG INC

Wang Engineering

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

BORING LOG SB2-24

WEI Job No.: 790-77-01

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 826.40 ft
North: 2011828.85 ft
East: 983570.96 ft
Station: 2243+69.04
Offset: 67.39 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	826.0	5-inch thick dark brown SILTY LOAM --TOPSOIL--						
		Very soft to medium stiff, dark brown, organic SILTY CLAY; damp			1	2 2 2	0.66 B	57
			5		2	1 1 1	NP	62
	819.1	Brown SAND; saturated			3	2 5 4	< 0.25 P	57
	818.4	Very loose, brown to gray, organic SILTY LOAM; wet	10		4	1 1 1	NP	73
					5	0 1 0	NP	108
		--trace shells--	15		6	1 0 1	NP	79
	810.9	Loose, gray SILT; saturated			7	4 4 14	NP	35
	809.4	Loose to dense, gray, gravelly SAND; wet	20		8	4 4 5	NP	19
	804.4	Loose to dense, gray, gravelly SAND; saturated			9	7 7 5	NP	16
			25		10	5 6 5	NP	11
					11	10 12 16	NP	10
			30		12	14 12 16	NP	10
			35		13	26 19 16	NP	11
	789.4	Stiff, reddish gray SILTY CLAY LOAM, trace gravel			14	9 13 15	1.89 B	12
	786.4	Boring terminated at 40.00 ft	40					

GENERAL NOTES

Begin Drilling: 02-09-2015 Complete Drilling: 02-09-2015
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: P & N Logger: D. Kolpacki Checked by: A. Hamad
Drilling Method: 3.25-inch IDA HSA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 7.40 ft
At Completion of Drilling: 5.00 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.

WANGENG.GDT 1/20/22 790701.GPJ WANGENG INC

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

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PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 28
STRUCTURE NO. 056-W302
SHEET S3-67 OF S3-67 SHEETS

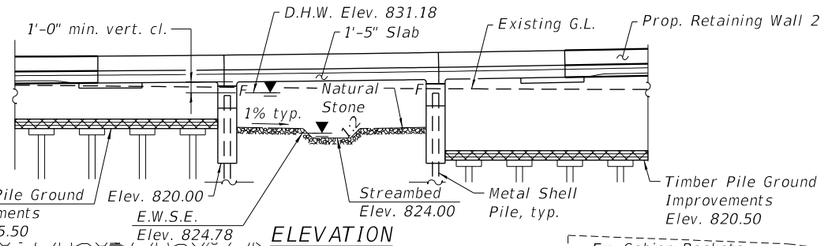
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	534
		CONTRACT NO. 61J93		
		ILLINOIS	FED. AID PROJECT	

Bench Mark: Bench Mark: BM #11. RR spike in power pole in SW quadrant of intersection of Randall Road and Miller Road. Elev. 828.92

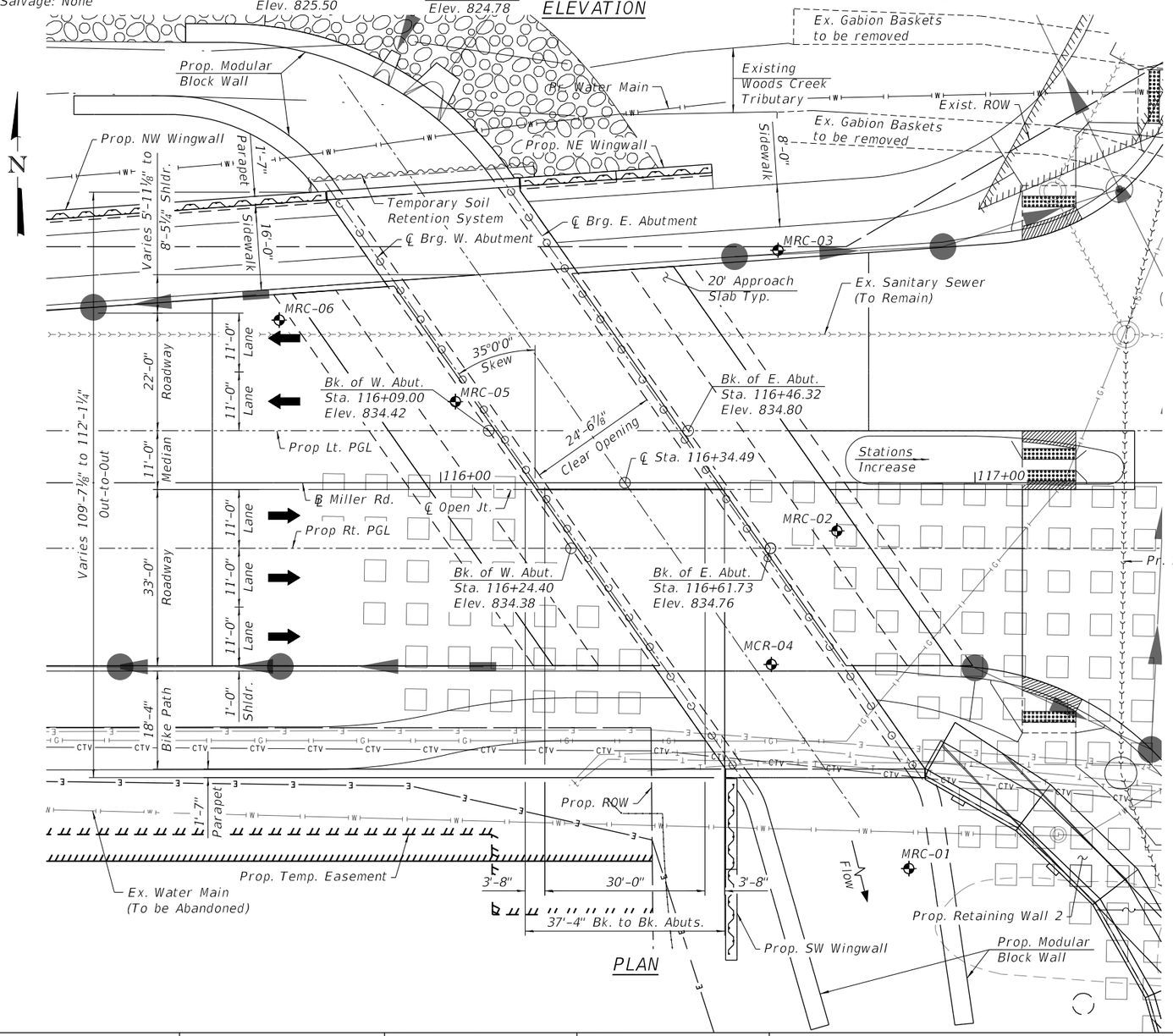
Traffic Control: Miller Road closed to traffic during construction.

Existing Structure: S.N. 056-3206 was built in 1970 under Section 70-1-Q. The existing structure is a two-barrel 9'x5' cast-in-place concrete culvert under the intersection of Randall Road and Miller Road. Channel is relocated to this location. The culvert is 144'-0" long.

Salvage: None



ELEVATION



PLAN

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

MATTHEW D. SANTEFORD 081-007244 LICENSED STRUCTURAL ENGINEER OF STATE OF ILLINOIS

MATTHEW D. SANTEFORD, P.E., S.E.
NO. 081-007244
EXP. DATE 11/30/2024

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

DESIGN STRESSES

FIELD UNITS

f'c = 4,000 psi (Superstructure)
f'c = 3,500 psi (Substructure)
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (Sheet Piling)

LOADING HL-93

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

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.081g
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.141g
Soil Site Class = D

DESIGN SCOUR ELEVATION TABLE

Event / Limit State	Design Scour Elevations (ft.)		
	W. Abut.	E. Abut.	Item 113
Q100	822.12	822.12	8
Q200	822.21	822.21	
Design	820.00	820.00	
Check	820.00	820.00	

WATERWAY INFORMATION

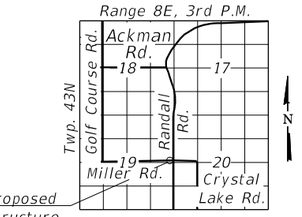
Drainage Area = 2.0 sq. mi.

Existing Overtopping Elev. 831.62' @ Sta. 116+50
Proposed Overtopping Elev. 833.37' @ Sta. 114+73.49

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	489	75	137	830.11	0.62	0.00	830.73	830.11
Design	30	734	76	163	831.18	1.77	0.00	832.95	831.18
Base	50	846	76	165	831.24	2.28	0.00	833.52	831.24
	100	1021	76	179	831.81	2.84	0.00	834.65	831.81
Scour Design Check	200	1201	76	183	832.22	3.09	0.00	835.31	832.22
Max. Calc.	500	1466	76	183	832.78	3.27	0.00	836.05	832.78

LEGEND

- Exist. Underground Water
- Exist. Electric
- Exist. Gas
- Exist. Underground Telephone
- Exist. Underground Sanitary Sewer
- Exist. Cable TV
- Exist. ROW
- Prop. ROW
- Prop. Temp. Easement
- Prop. Storm Sewer
- Soil Boring
- Timber Pile Ground Improvements



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
MILLER ROAD OVER
WOODS CREEK TRIBUTARY
F.A.U. ROUTE 4039
SECTION 06-00329-02-PW
MCHENRY COUNTY
STATION 116+34.49
STRUCTURE NO. 056-6406

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME: pw:\\ng-pwint01.a-e.transystems.com:transystems-jw1\Documents\Projects\CH401 - Chicago\P401130061\40.0000\44.0000\44.0800\Contract 2\Sheet Files\23 Structural Sheets\TSC\Sheets\SN 056-6406 - Miller Road over Woods Creek Tributary\056406-623f23-001-GPE.dgn

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	DRAWN - IS	REVISED -
PLOT SCALE = 24.0000 ' / in.	CHECKED - MDS	REVISED -
PLOT DATE = 6/12/2024	DATE - 6/12/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 056-6406
SHEET S4-01 OF S4-29 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	535
		CONTRACT NO. 61J93		
	ILLINOIS FED. AID PROJECT			

GENERAL NOTES

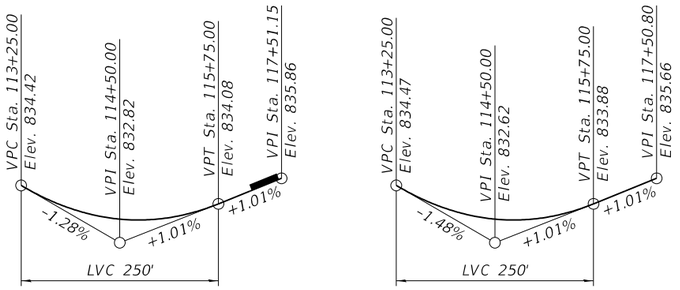
1. Reinforcement bars designated (E) shall be epoxy coated.
2. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
3. The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection. Forms for deck slab shall be removed prior to placement of bridge approach slab.
4. Slipforming of the parapets is not allowed.
5. Backfill shall be placed behind the abutment after the superstructure has been poured and falsework removed. See Article 502.10 of the Standard Specifications.
6. Form Liner Textured Surface, Special shall be inset into the face of the barrier on the traffic side up to ½" deep and 1" wide.
7. Anti-Graffiti Coating shall be applied to all exposed faces of the parapet.
8. Staining shall be applied to all areas of Form Liner Textured Surface and Form Liner Textured Surface, Special.
9. Concrete Sealer shall be applied on the inside face of abutment to 1'-0" below PR grade.

INDEX OF SHEETS

S4-01	General Plan and Elevation
S4-02	General Data
S4-04	Foundation Layout
S4-05	Top of Slab Elevations
S4-06	Top of Approach Slab Elevations
S4-07	Superstructure Plan
S4-08	Superstructure Cross Section
S4-09	Superstructure Details & BOM
S4-10	Approach Slab 1
S4-11	Approach Slab 2
S4-12	Parapet Railing Details
S4-13	West Abutment Plan (1 of 2)
S4-14	West Abutment Plan (2 of 2)
S4-15	East Abutment Plan (1 of 2)
S4-16	East Abutment Plan (2 of 2)
S4-17	Abutment Details and BOM
S4-18	Pile Details
S4-19	Sheet Pile Walls Plan & Elevation 1
S4-20	Sheet Pile Walls Plan & Elevation 2
S4-21	Sheet Pile Walls Plan & Elevation 3
S4-22	Sheet Pile Walls Plan & Elevation 4
S4-23	Sheet Pile Wall Details 1
S4-24	Sheet Pile Wall Details 2
S4-24	Precast Modular Retaining Wall GPE
S4-25	Boring Logs 1
S4-26	Boring Logs 2
S4-27	Boring Logs 3
S4-28	Boring Logs 4
S4-29	Boring Logs 5

TOTAL BILL OF MATERIAL

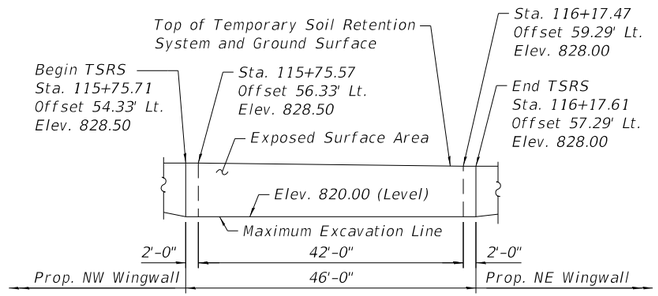
Item	Unit	Super	Sub	Total
Structure Excavation	Cu. Yd.		1,037	1,037
Concrete Structures	Cu. Yd.		539.4	539.4
Concrete Superstructure	Cu. Yd.	97.6		97.6
Form Liner Textured Surface	Sq. Ft.	2,276		2,276
Protective Coat	Sq. Yd.	499		499
Concrete Superstructure (Approach Slab)	Cu. Yd.	136.1		136.1
Reinforcement Bars, Epoxy Coated	Pound	178,160	53,110	231,270
Furnishing Metal Shell Piles 16" X 0.375"	Foot		2,074	2,074
Driving Piles	Foot		2,074	2,074
Test Pile Metal Shells	Each		2	2
Name Plates	Each	1		1
Permanent Sheet Piling	Sq. Ft		11,864	11,864
Precast Modular Retaining Wall	Sq. Ft		810	810
Granular Backfill For Structures	Cu. Yd.		435	435
Concrete Sealer	Sq. Ft		2,115	2,115
Geocomposite Wall Drain	Sq. Yd		145	145
Pipe Underdrains For Structures 4"	Foot		295	295
High Performance Concrete Superstructure	Cu. Yd.	240.6		240.6
Anti-Graffiti Coating	Sq. Ft.	4,399		4,399
Form Liner Textured Surface, Special	Sq. Ft.	1,177		1,177
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	601		601
Staining Concrete Structures	Sq. Ft.	3,453		3,453
Parapet Railing, Special	Foot	335		335
Silicone Joint Sealer, 1"	Foot	35		35
Diamond Grinding (Bridge Section)	Sq. Yd.	1,090		1,090
Temporary Soil Retention System	Foot		380	380
Bridge Deck Concrete Sealer	Sq. Yd.	285		285
Stud Shear Connectors	Each		1,234	1,234



PROFILE GRADE
(Along Lt. PGL of Miller Road)

PROFILE GRADE
(Along Rt. PGL of Miller Road)

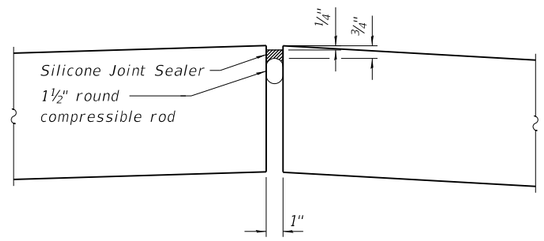
Notes:
1. Up to ¼ inch to be ground off the bridge deck and the bridge approach slabs. The Profile Grade shows the final grade after grinding.



TEMPORARY SOIL RETENTION SYSTEM
(Looking North, measured along F.F. of TSRS. Stations and offsets from ℄ Miller Road.)

STATION 116+34.49
BUILT 20__ BY
STATE OF ILLINOIS
F.A.U. RTE. 4039
SEC. 06-00329-02-PW
LOADING HL-93
STRUCTURE NO. 056-6406

NAME PLATE
See Std. 515001



DETAIL AT OPEN JOINT
(Dimensions after grinding)

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

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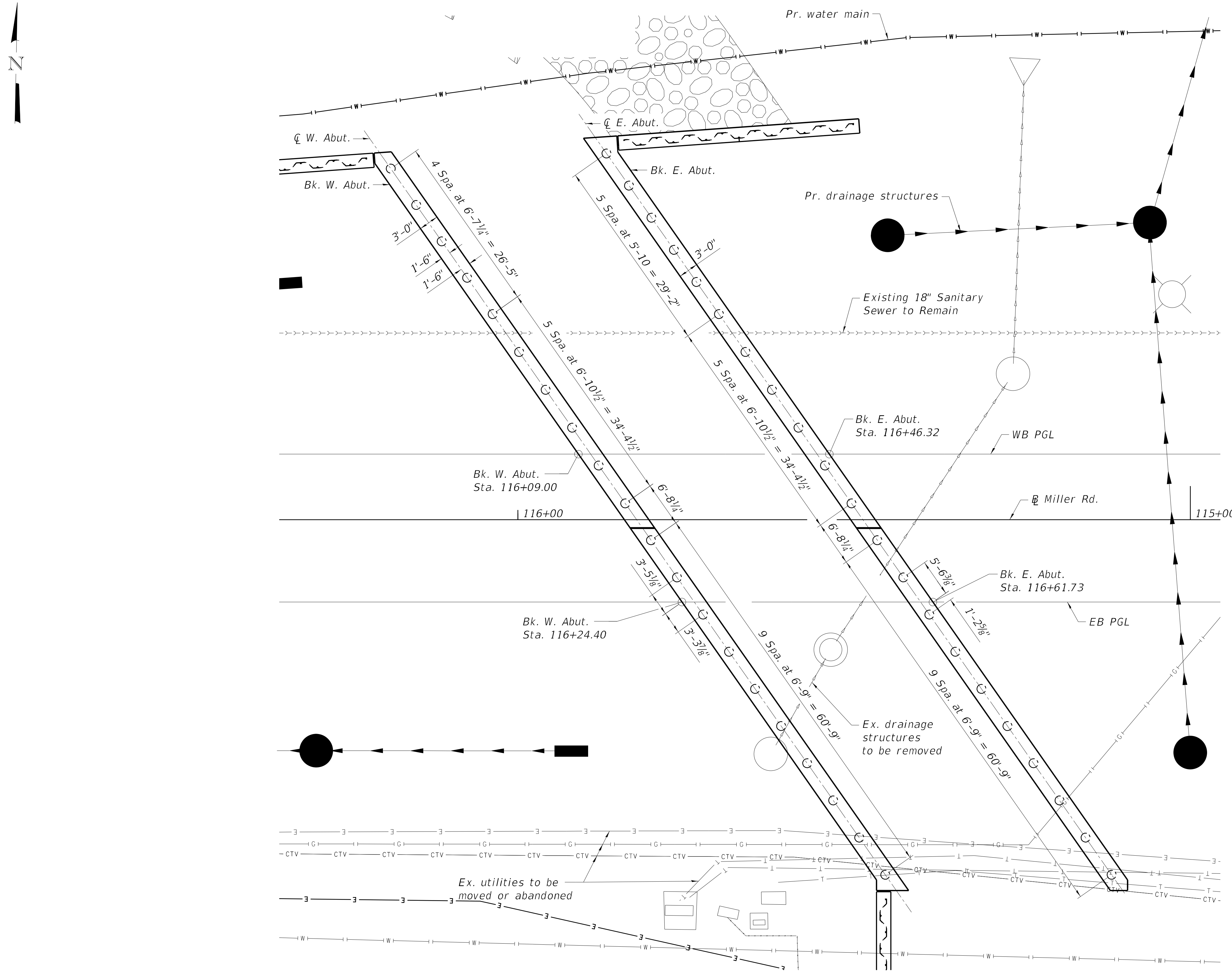
PLOT DATE = 6/12/2024	DATE - 6/12/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTION AND DETAILS
STRUCTURE NO. 056-6406
SHEET S4-02 OF S4-29 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	536
		CONTRACT NO. 61J93		
		ILLINOIS	FED. AID PROJECT	



FOUNDATION LAYOUT

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

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FOUNDATION LAYOUT
STRUCTURE NO. 056-6406

SHEET S4-03 OF S4-29 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	537
		CONTRACT NO. 61J93		
	ILLINOIS	FED. AID PROJECT		

NORTH EDGE OF DECK

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
E. End W. Appr.	115+78.85	-54.55	833.60	833.62
A	115+95.47	-55.73	833.74	833.80
W. End E. Appr.	116+12.09	-56.90	833.88	833.91

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
E. End W. Appr.	115+90.75	-37.76	833.68	833.70
A	116+07.30	-38.93	833.82	833.88
W. End E. Appr.	116+24.85	-40.10	833.97	833.99

LEFT PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
E. End W. Appr.	116+10.22	-9.75	834.44	834.46
A	116+27.66	-9.75	834.61	834.67
W. End E. Appr.	116+45.10	-9.75	834.79	834.81

SOUTH EDGE OF DECK

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
E. End W. Appr.	116+55.67	55.17	834.24	834.26
A	116+73.11	55.17	834.41	834.47
W. End E. Appr.	116+90.56	55.17	834.59	834.61

SOUTH EDGE OF PAVEMENT

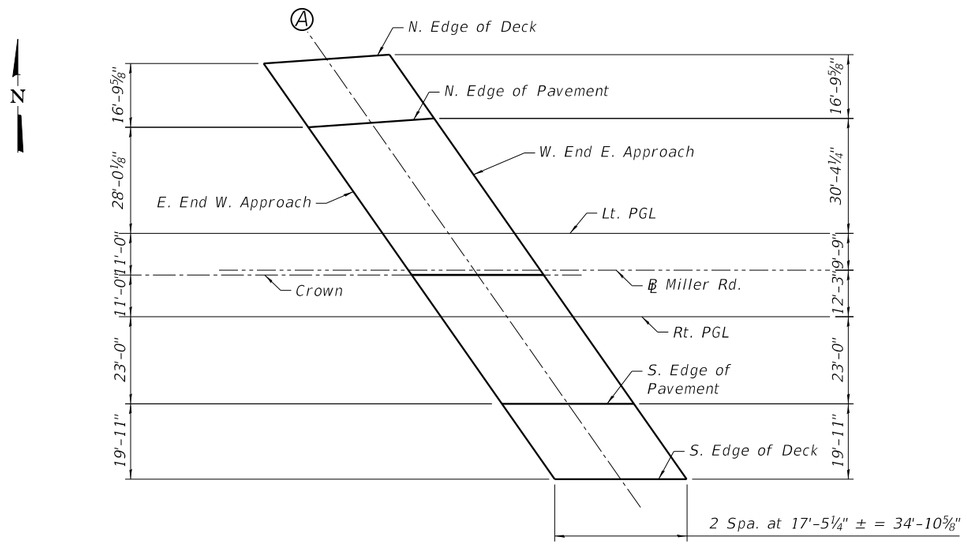
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
E. End W. Appr.	116+41.73	35.25	834.10	834.12
A	116+59.17	35.25	834.27	834.33
W. End E. Appr.	116+76.61	35.25	834.45	834.47

RIGHT PROFILE GRADE

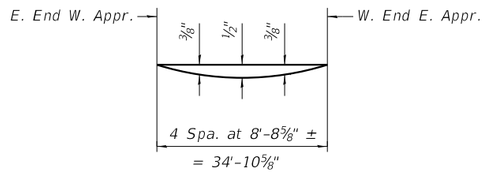
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
E. End W. Appr.	116+25.62	12.25	834.39	834.41
A	116+43.06	12.25	834.57	834.63
W. End E. Appr.	116+60.51	12.25	834.75	834.77

CROWN

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
E. End W. Appr.	116+17.92	1.25	834.57	834.59
A	116+35.36	1.25	834.75	834.80
W. End E. Appr.	116+52.80	1.25	834.92	834.94



PLAN



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only)

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

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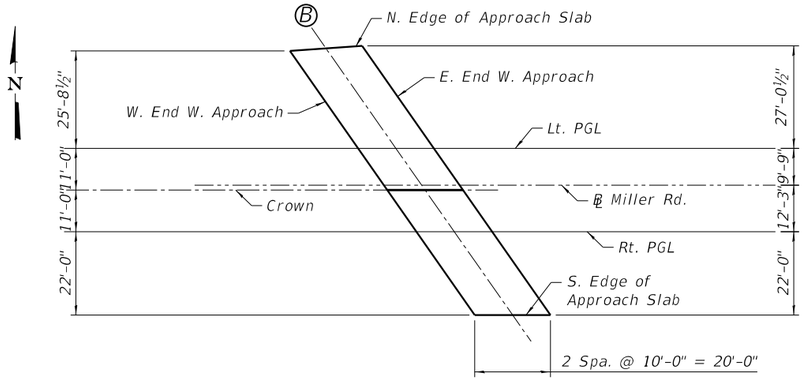
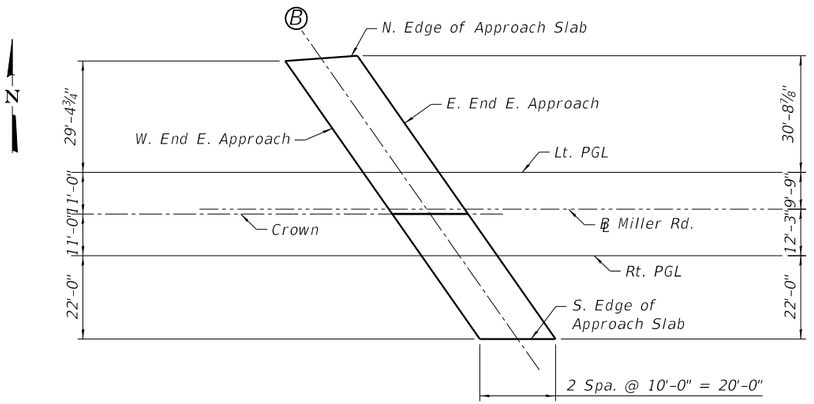
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 056-6406
SHEET S4-04 OF S4-29 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	538
		CONTRACT NO. 61J93		
	ILLINOIS FED. AID PROJECT			



WEST APPROACH PLAN



EAST APPROACH PLAN

WEST APPROACH SLAB ELEVATIONS

NORTH EDGE OF APPROACH SLAB

Location	Station	Offset	Theoretical Grade Elevations Adjusted for Grinding
W. End W. Appr.	115+72.22	-35.46	833.56
B	115+81.75	-36.09	833.64
E. End W. Appr.	115+91.28	-36.80	833.72

LEFT PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations Adjusted for Grinding
W. End W. Appr.	115+90.22	-9.75	834.25
B	116+00.22	-9.75	834.36
E. End W. Appr.	116+10.22	-9.75	834.46

CROWN

Location	Station	Offset	Theoretical Grade Elevations Adjusted for Grinding
W. End W. Appr.	115+97.92	1.25	834.39
B	116+07.92	1.25	834.49
E. End W. Appr.	116+17.92	1.25	834.59

RIGHT PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations Adjusted for Grinding
W. End W. Appr.	116+05.62	12.25	834.21
B	116+15.62	12.25	834.31
E. End W. Appr.	116+25.62	12.25	834.41

SOUTH EDGE OF APPROACH SLAB

Location	Station	Offset	Theoretical Grade Elevations Adjusted for Grinding
W. End W. Appr.	116+21.03	34.25	833.93
B	116+31.03	34.25	834.03
E. End W. Appr.	116+41.03	34.25	834.13

EAST APPROACH SLAB ELEVATIONS

NORTH EDGE OF APPROACH SLAB

Location	Station	Offset	Theoretical Grade Elevations Adjusted for Grinding
W. End E. Appr.	116+24.52	-39.15	834.01
B	116+34.05	-39.86	834.10
E. End E. Appr.	116+43.57	-40.49	834.18

LEFT PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations Adjusted for Grinding
W. End E. Appr.	116+45.10	-9.75	834.81
B	116+55.10	-9.75	834.91
E. End E. Appr.	116+65.10	-9.75	835.01

CROWN

Location	Station	Offset	Theoretical Grade Elevations Adjusted for Grinding
W. End E. Appr.	116+52.80	1.25	834.94
B	116+62.80	1.25	835.04
E. End E. Appr.	116+72.80	1.25	835.14

RIGHT PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations Adjusted for Grinding
W. End E. Appr.	116+60.51	12.25	834.77
B	116+70.51	12.25	834.87
E. End E. Appr.	116+80.51	12.25	834.97

SOUTH EDGE OF APPROACH SLAB

Location	Station	Offset	Theoretical Grade Elevations Adjusted for Grinding
W. End E. Appr.	116+75.91	34.25	834.48
B	116+85.91	34.25	834.58
E. End E. Appr.	116+95.91	34.25	834.68

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF APPROACH SLAB ELEVATIONS
STRUCTURE NO. 056-6406
SHEET S4-05 OF S4-29 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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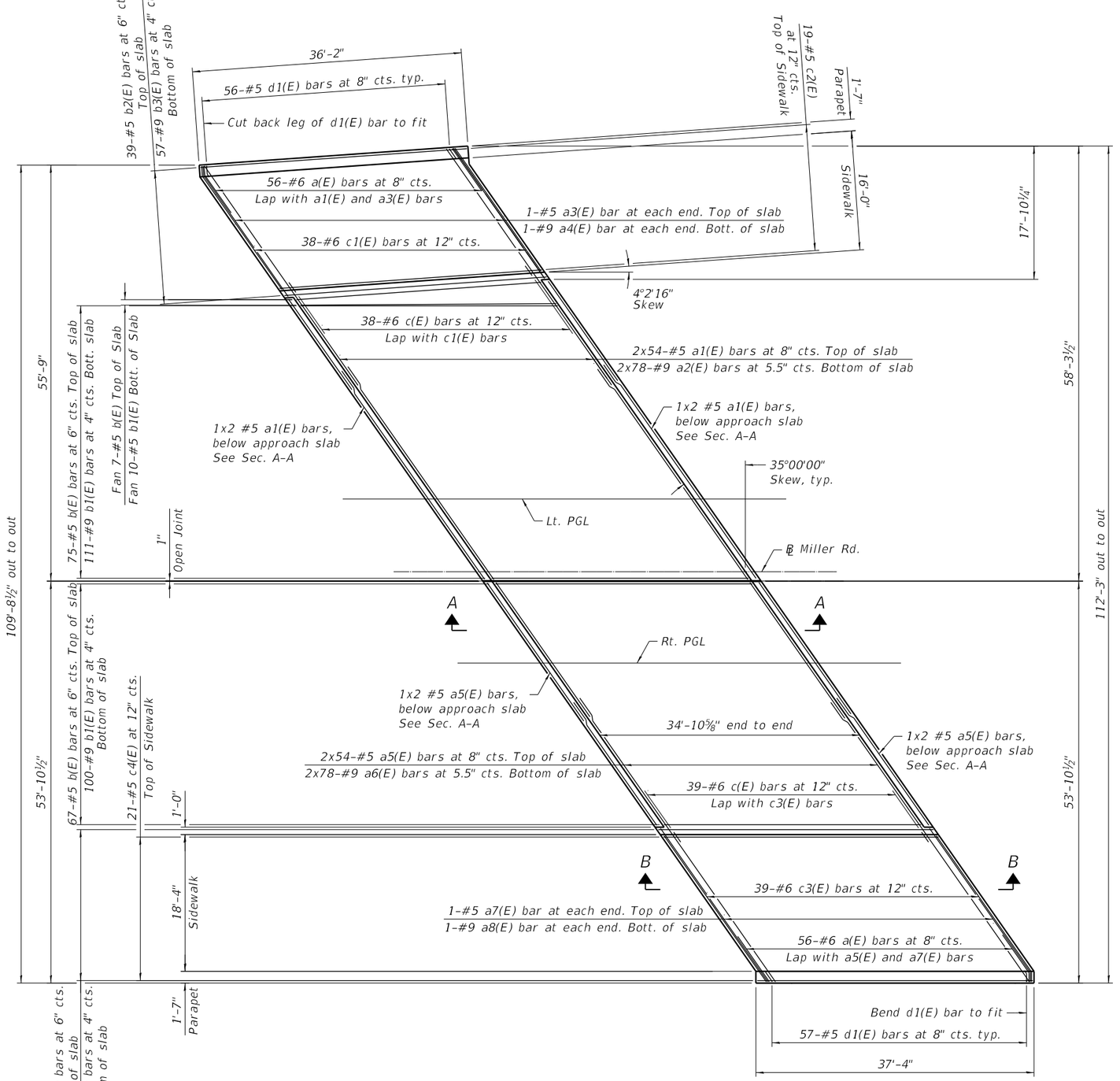
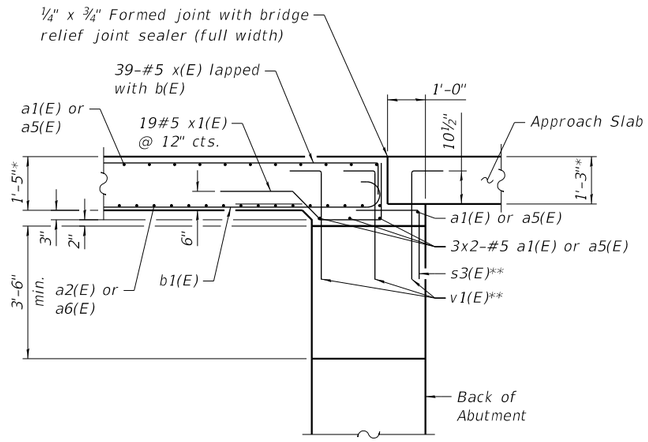
		CONTRACT NO. 61J93		
	ILLINOIS	FED. AID PROJECT		



PLAN

(Approach Slab not shown for clarity)

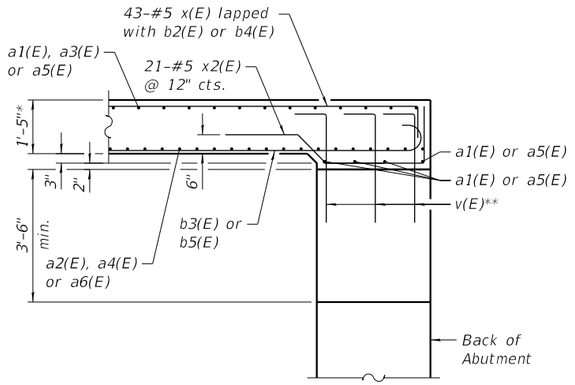


SECTION A-A

MINIMUM BAR LAP

#5 bar = 3'-6"
#9 bar = 9'-7"

* After Grinding
** See Abutment sheets



SECTION B-B

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SUPERSTRUCTURE PLAN
STRUCTURE NO. 056-6406
SHEET S4-06 OF S4-29 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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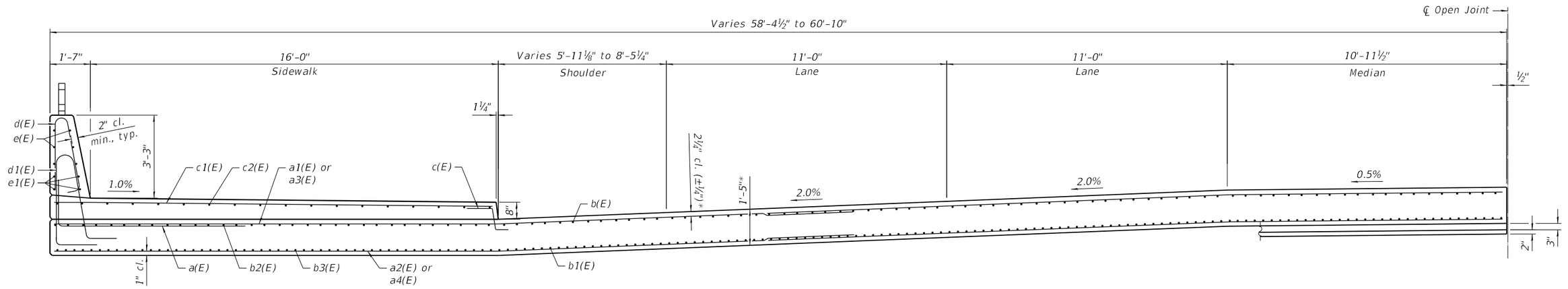
		CONTRACT NO. 61J93		
		ILLINOIS	FED. AID PROJECT	



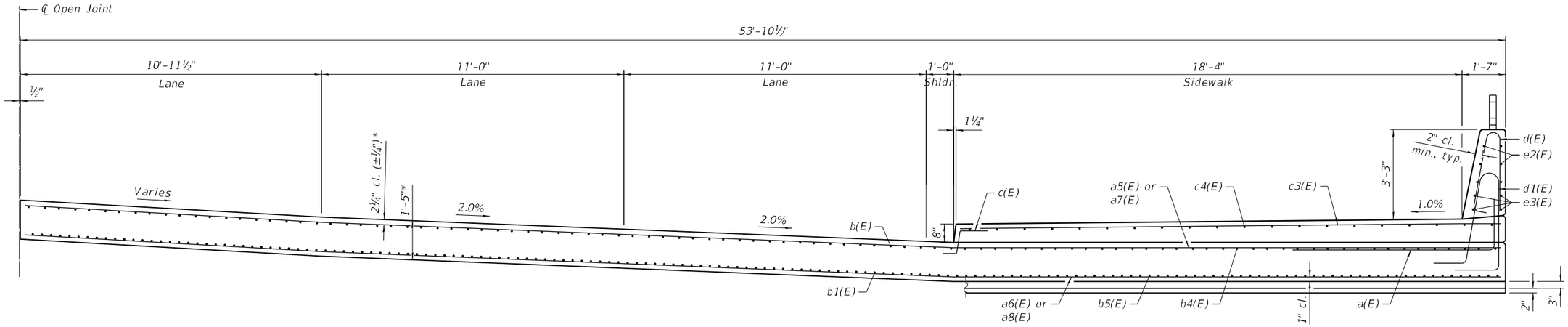
NEAR MIDSPAN

NEAR ABUTMENT

CROSS SECTION – NORTH OF OPEN JOINT

(Looking East)

* After grinding



NEAR MIDSPAN

NEAR ABUTMENT

CROSS SECTION – SOUTH OF OPEN JOINT

(Looking East)

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE CROSS SECTION
STRUCTURE NO. 056-6406

SHEET S4-07 OF S4-29 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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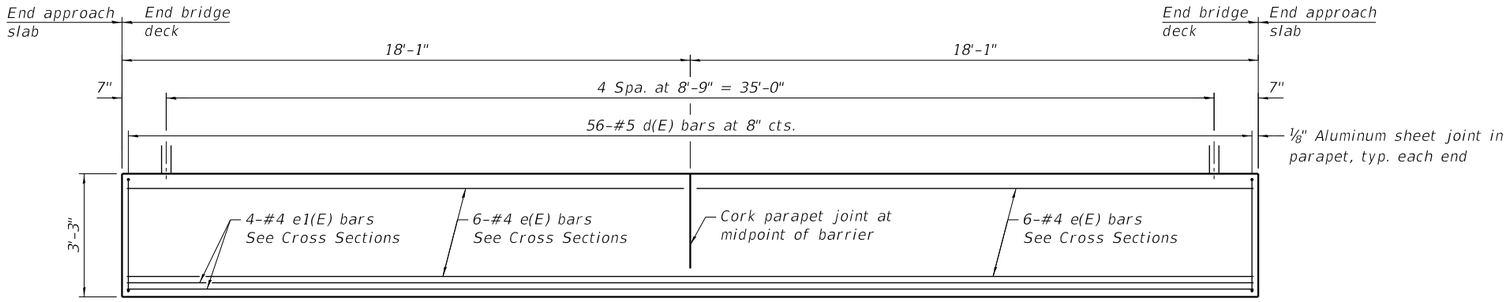
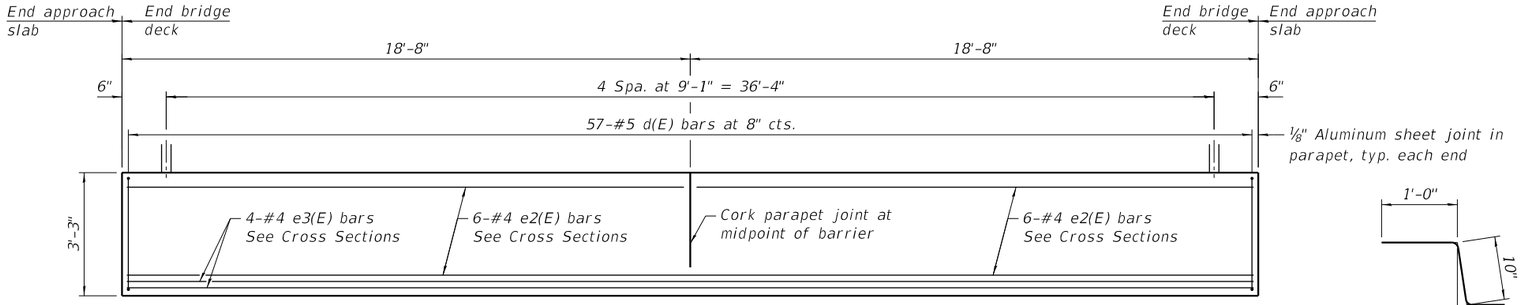
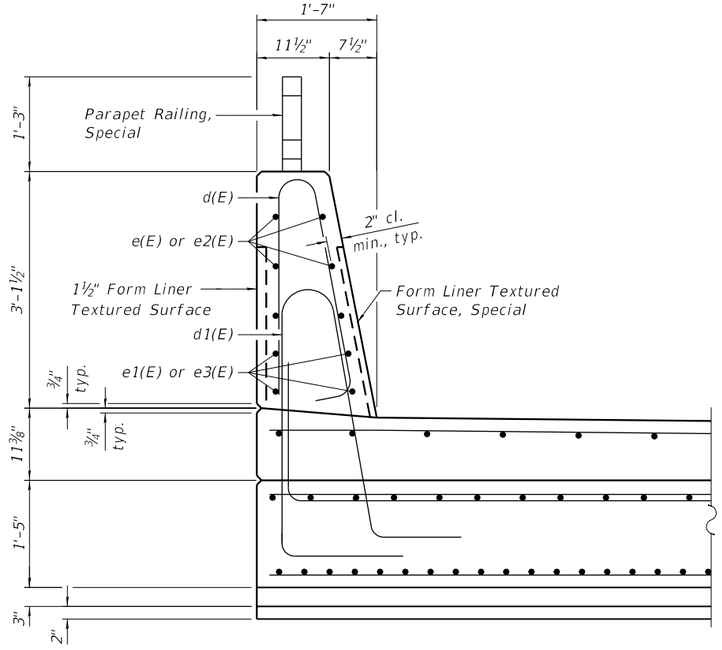
		CONTRACT NO. 61J93		
	ILLINOIS	FED. AID PROJECT		



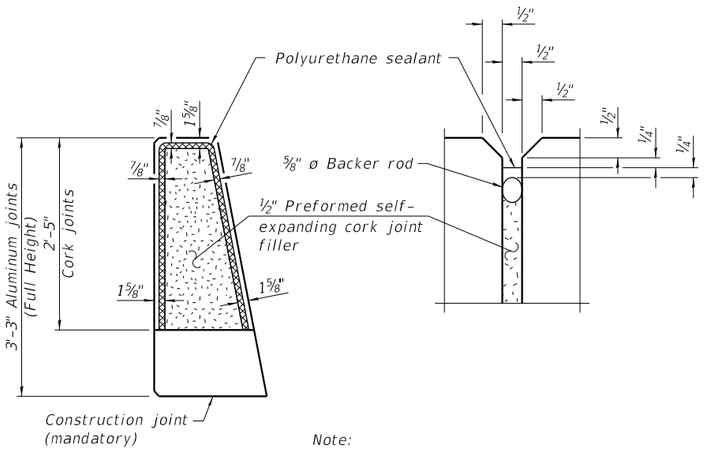
INSIDE ELEVATION OF NORTH PARAPET



INSIDE ELEVATION OF SOUTH PARAPET



SECTION THRU PARAPET



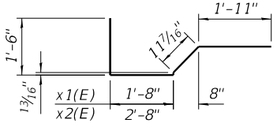
Note:
The polyurethane sealant shall be according to Article 1050.04 of the Standard Specifications and the color shall be gray.

PARAPET JOINT DETAILS

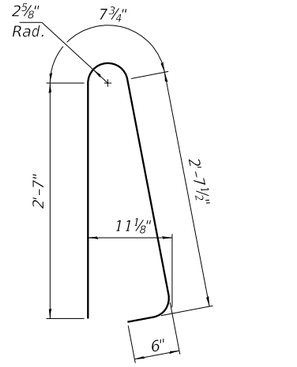
BAR c(E)

b(E) BAR SCHEDULE

Bar	"A"
b1(E)	34'-6"
b3(E)	35'-10"
b5(E)	37'-0"

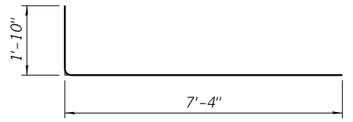


BAR x1(E) AND x2(E)

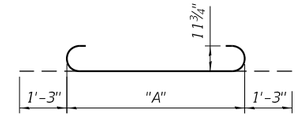


BAR d(E)

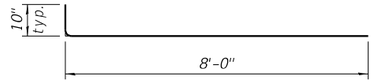
BAR d1(E)



BAR a(E)



BAR b1(E), b3(E), AND b5(E)



BAR x(E)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	112	#6	9'-2"	
a1(E)	118	#5	37'-1"	
a2(E)	160	#9	40'-2"	
a3(E)	2	#5	21'-4"	
a4(E)	2	#9	21'-4"	
a5(E)	114	#5	34'-6"	
a6(E)	156	#9	37'-7"	
a7(E)	2	#5	25'-2"	
a8(E)	2	#9	25'-2"	
b(E)	149	#5	34'-6"	
b1(E)	221	#9	37'-0"	
b2(E)	39	#5	35'-10"	
b3(E)	57	#9	38'-4"	
b4(E)	43	#5	37'-0"	
b5(E)	64	#9	39'-6"	
c(E)	77	#6	2'-4"	
c1(E)	38	#6	20'-1"	
c2(E)	19	#6	35'-10"	
c3(E)	39	#6	23'-10"	
c4(E)	21	#6	37'-0"	
d(E)	113	#5	6'-5"	
d1(E)	113	#5	8'-11"	
e(E)	12	#4	17'-9"	
e1(E)	4	#4	35'-10"	
e2(E)	12	#4	18'-4"	
e3(E)	4	#4	37'-0"	
x(E)	82	#5	8'-10"	
x1(E)	19	#5	6'-2"	
x2(E)	21	#5	7'-2"	
Concrete Superstructure		Cu. Yd.	51.2	
Protective Coat		Sq. Yd.	178	
Reinforcement Bars, Epoxy Coated		Pound	113,040	
High Performance Concrete Superstructure		Cu. Yd.	240.6	
Bridge Deck Concrete Sealer		Sq. Yd.	285	

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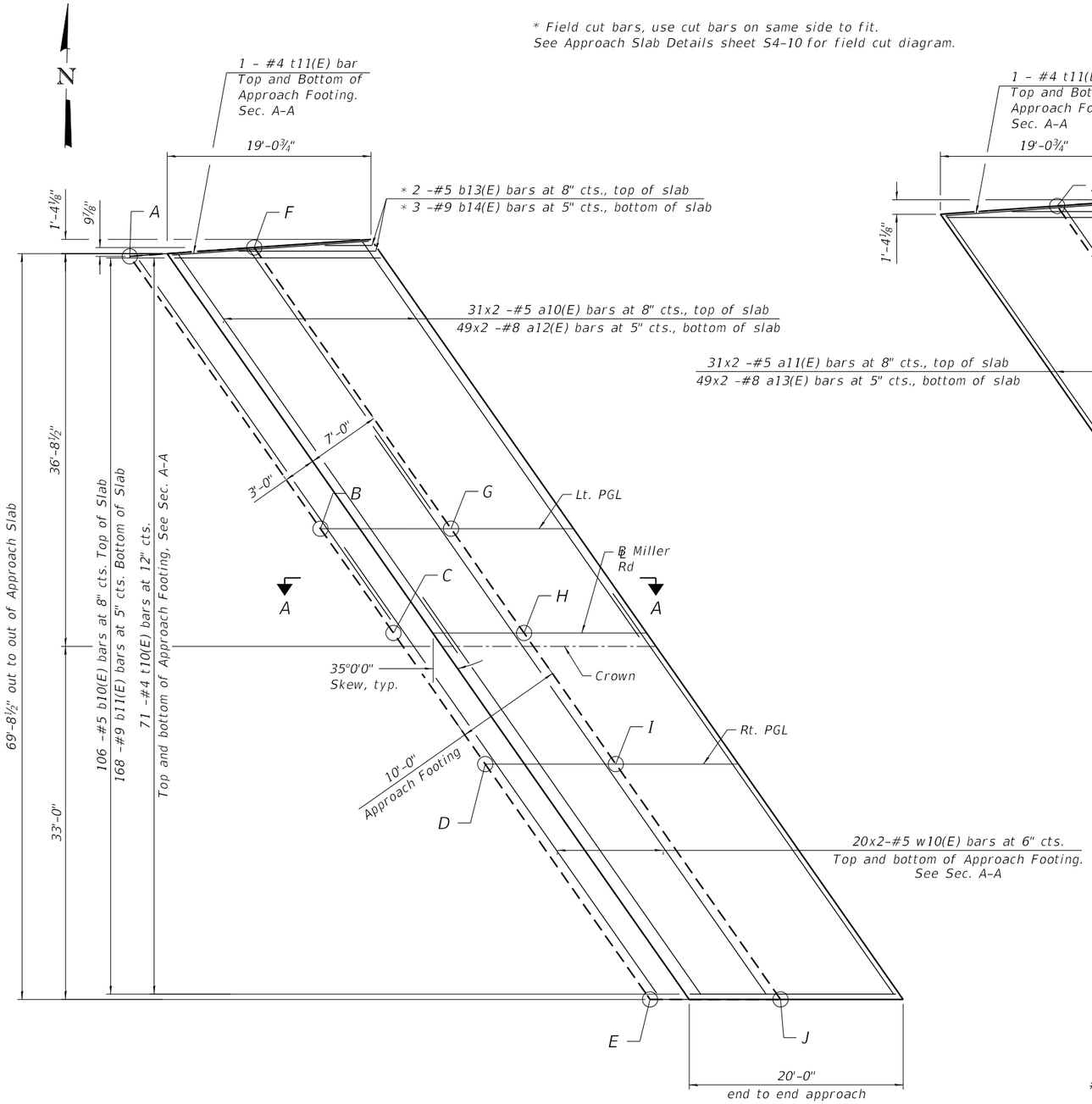
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

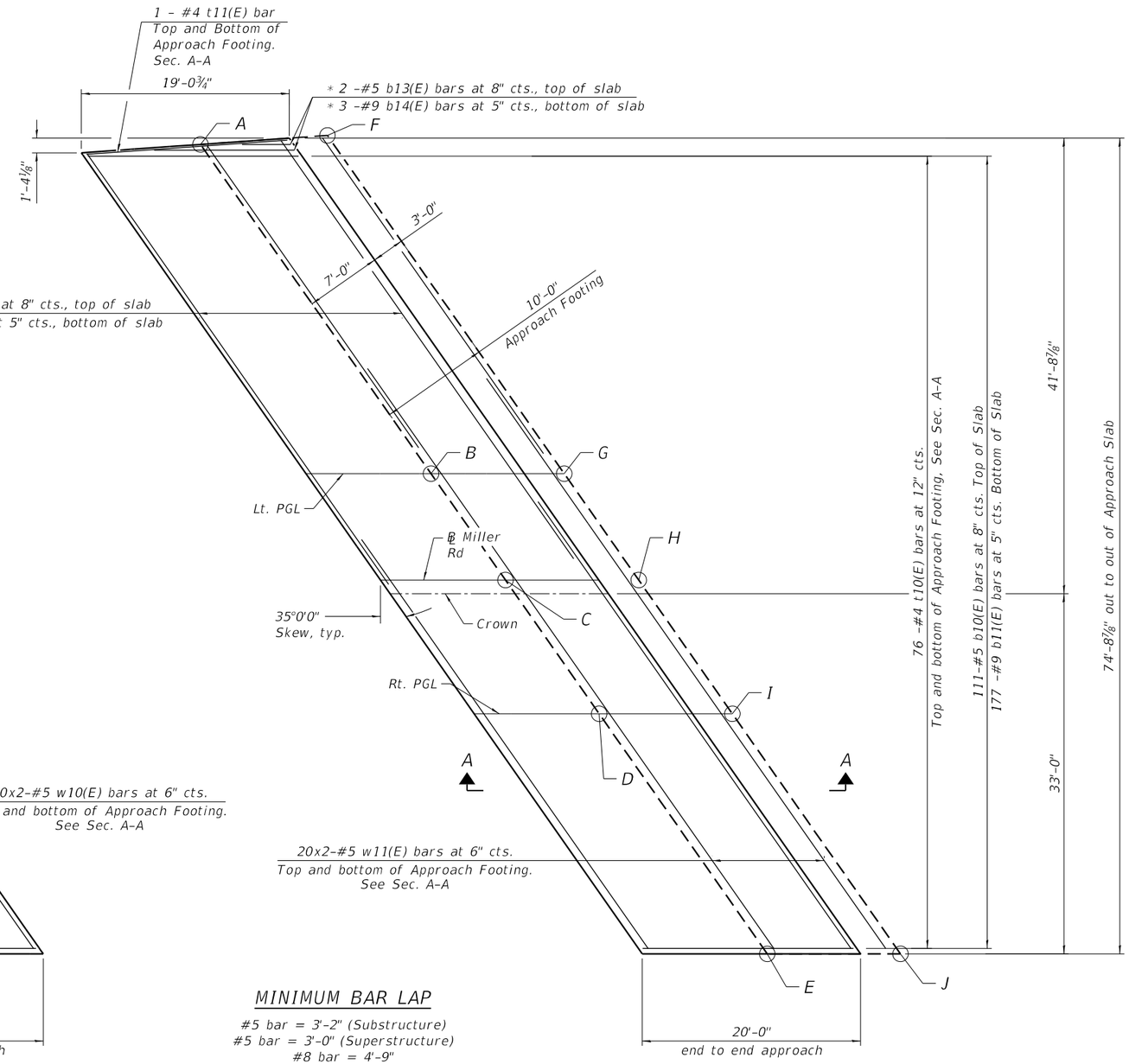
SUPERSTRUCTURE DETAILS
STRUCTURE NO. 056-6406
SHEET S4-08 OF S4-29 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	542
		CONTRACT NO. 61J93		
		ILLINOIS FED. AID PROJECT		

* Field cut bars, use cut bars on same side to fit.
See Approach Slab Details sheet S4-10 for field cut diagram.



WEST APPROACH PLAN



EAST APPROACH PLAN

MINIMUM BAR LAP

#5 bar = 3'-2" (Substructure)
#5 bar = 3'-0" (Superstructure)
#8 bar = 4'-9"

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APPROACH SLAB PLAN
STRUCTURE NO. 056-6406
SHEET S4-09 OF S4-29 SHEETS

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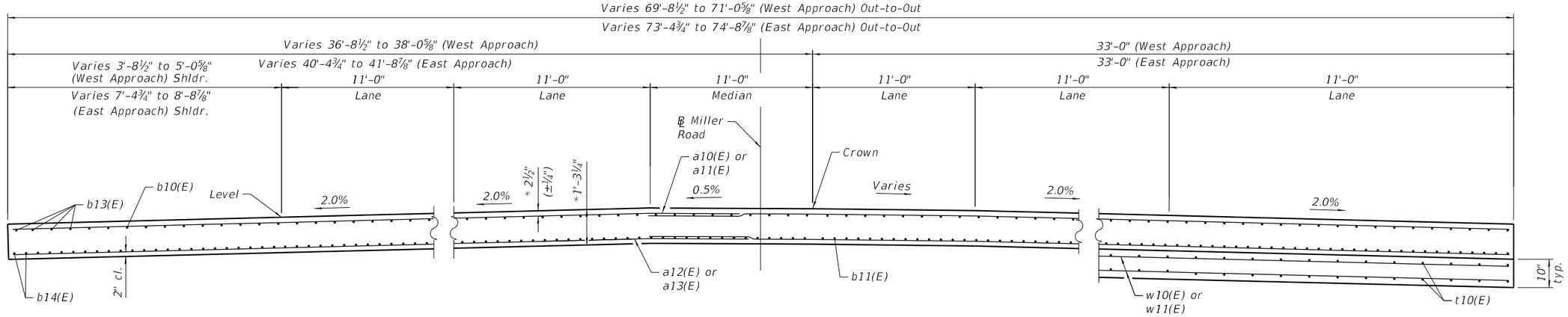
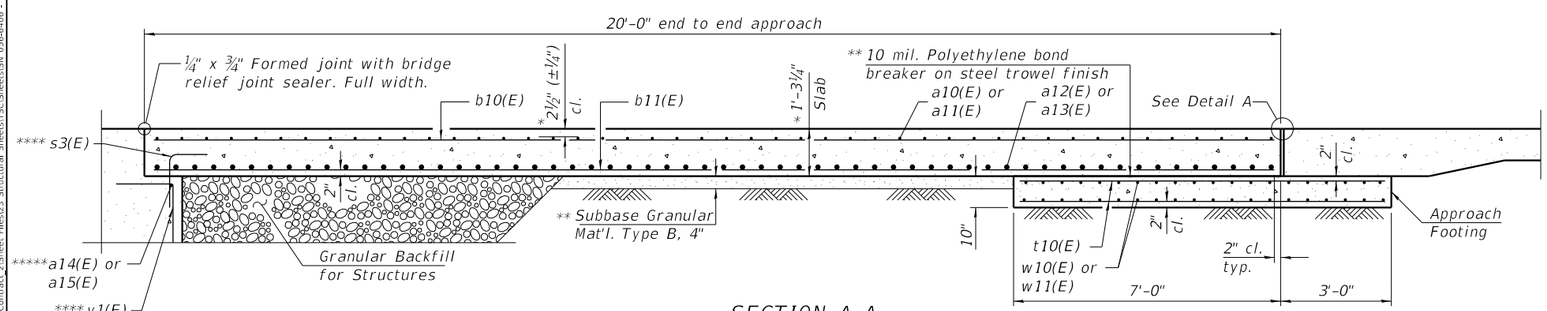


NEAR ABUTMENT

CROSS SECTION

(Looking East)
*Prior to grinding

AT APPROACH FOOTING



SECTION A-A

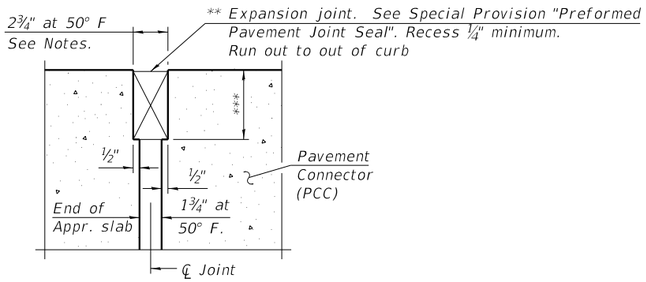
*Prior to grinding

** Cost included with Concrete Superstructure (Approach Slab).

*** Per manufacturer recommendations

**** See Abutment sheets

***** See Superstructure sheets

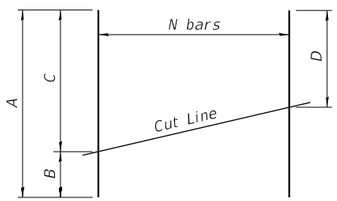


DETAIL A

(at Rt. ∠'s)

TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTINGS

Point	West Approach		East Approach	
	Top	Bottom	Top	Bottom
A	832.26	831.43	832.84	832.00
B	832.95	832.11	833.65	832.82
C	833.16	832.33	833.87	833.04
D	832.90	832.07	833.61	832.78
E	832.62	831.79	833.33	832.49
F	832.36	831.53	832.94	832.11
G	833.07	832.24	833.78	832.94
H	833.29	832.45	833.99	833.16
I	833.03	832.19	833.73	832.90
J	832.74	831.91	833.45	832.62



FIELD CUTTING DIAGRAM

Order b13(E) and b14(E) bars full length.
Cut as shown and use remainder of bars same side of approach slab.

Bar	A	B	C	D	N
b13(E)	19'-11"	5'-0"	14'-11"	5'-0"	2
b14(E)	17'-5"	2'-6"	14'-11"	2'-6"	3

TWO APPROACHES BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	62	#5	44'-9"	———
a11(E)	62	#5	47'-0"	———
a12(E)	98	#8	45'-7"	———
a13(E)	98	#8	47'-10"	———
b10(E)	217	#5	19'-8"	———
b11(E)	345	#9	19'-8"	———
b13(E)	2	#5	19'-11"	———
b14(E)	3	#9	17'-5"	———
t10(E)	294	#4	9'-8"	———
t11(E)	4	#4	11'-3"	———
w10(E)	80	#5	44'-6"	———
w11(E)	80	#5	47'-1"	———
Reinforcement Bars, Epoxy Coated		Pound	75,100	
Concrete Superstructure (Approach Slab)		Cu. Yds.	136.1	
Concrete Structures		Cu. Yds.	55.4	
Protective Coat		Sq. Yds.	321	

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PLOT DATE = 6/21/2024	DATE - 6/14/2024	REVISED -

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APPROACH SLAB DETAILS
STRUCTURE NO. 056-6406
SHEET S4-10 OF S4-29 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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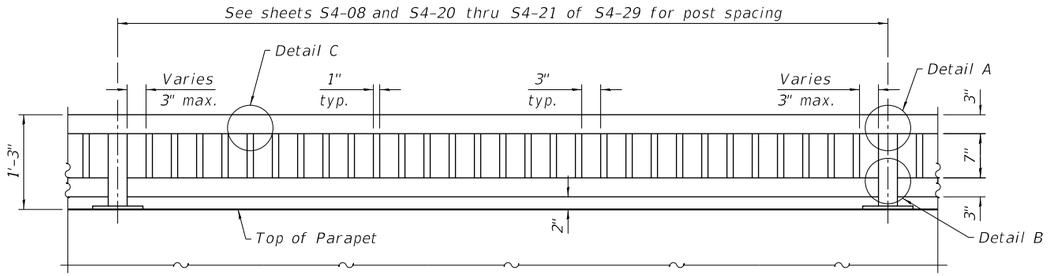
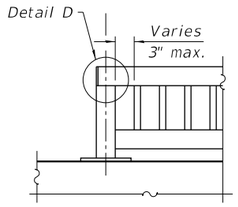
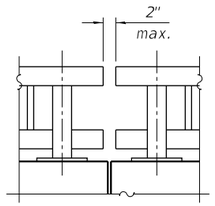
		CONTRACT NO. 61J93		
		ILLINOIS	FED. AID PROJECT	



ELEVATION



TERMINAL SECTION



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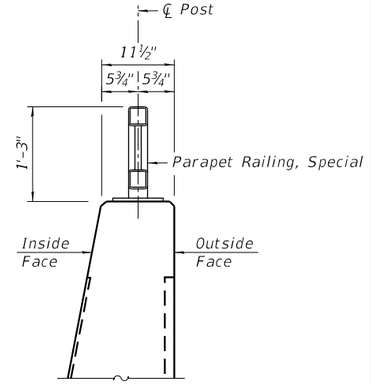

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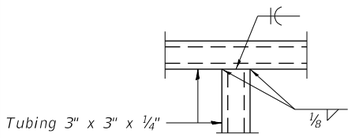
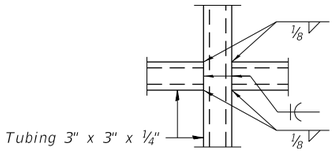


DETAIL A



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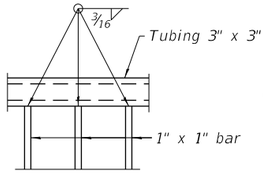

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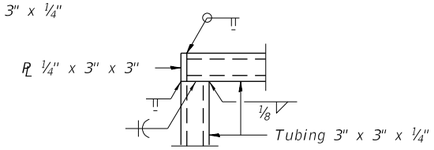

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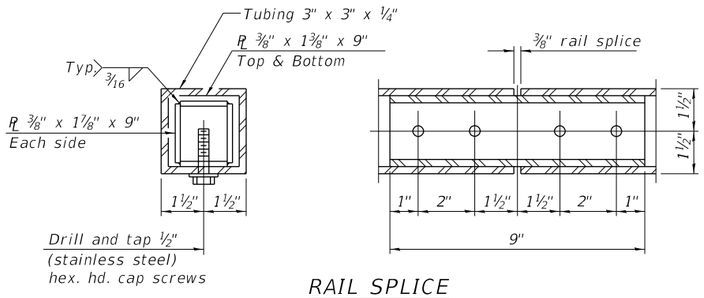

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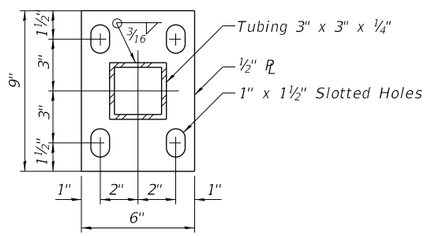

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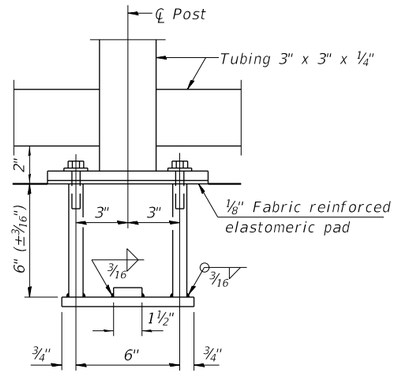

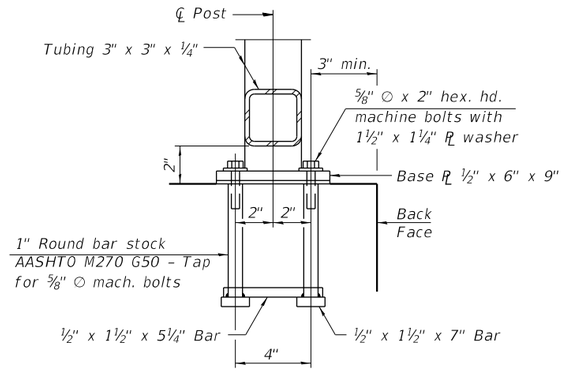

ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting ⅝" ∅ anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

Notes:
All post, railing, splices, anchor devices, and plates shall be powder coat the color Traffic Black (RAL 9017).

BILL OF MATERIAL

Item	Unit	Quantity
Parapet Railing, Special	Foot	335

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME: pw:\\tg-pwint01.a-ac.transystems.com:transystems-pw1\Documents\Projects\CH401 - Chicago\P401130061\140.00000\44.00000\44.02800\Contract 2\Sheet Files\23 Structural Sheets\T

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	DRAWN - IS	REVISED -	
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PLOT DATE = 6/21/2024	DATE - 6/14/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RAILING DETAILS
STRUCTURE NO. 056-6406
SHEET S4-11 OF S4-29 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	545
		CONTRACT NO. 61J93		
		ILLINOIS	FED. AID PROJECT	

PILE DATA – WEST ABUTMENT

Type: PP16 x 0.375"

Nominal Required Bearing: 364 kips

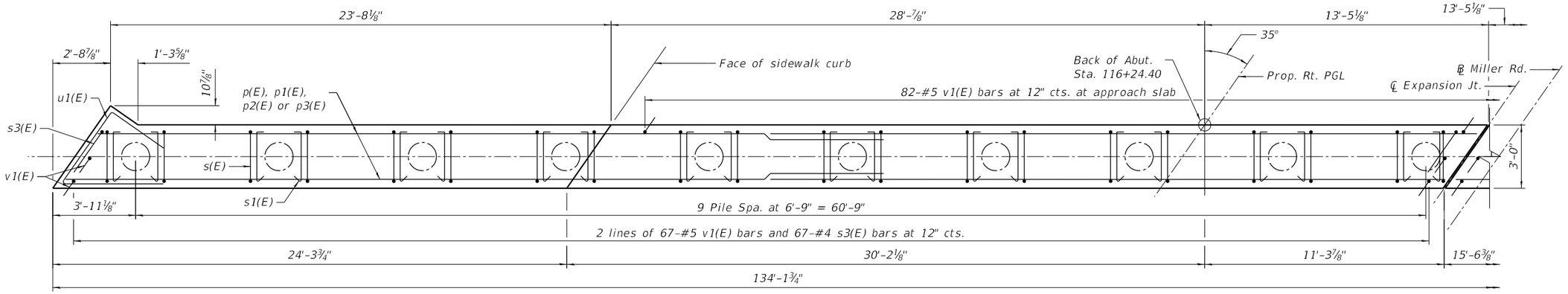
Factored Resistance Available: 200 kips

Est. Length: 46 feet

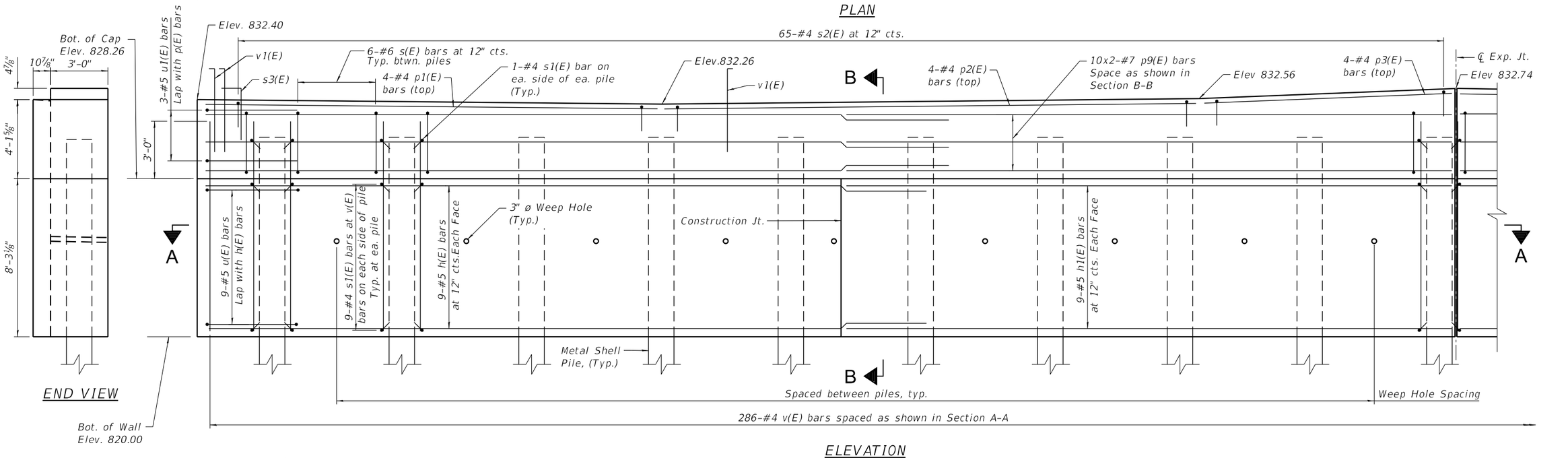
No. Production Piles: 19

No. Test Piles: 1

Min. Tip Elev. 798.00



PLAN



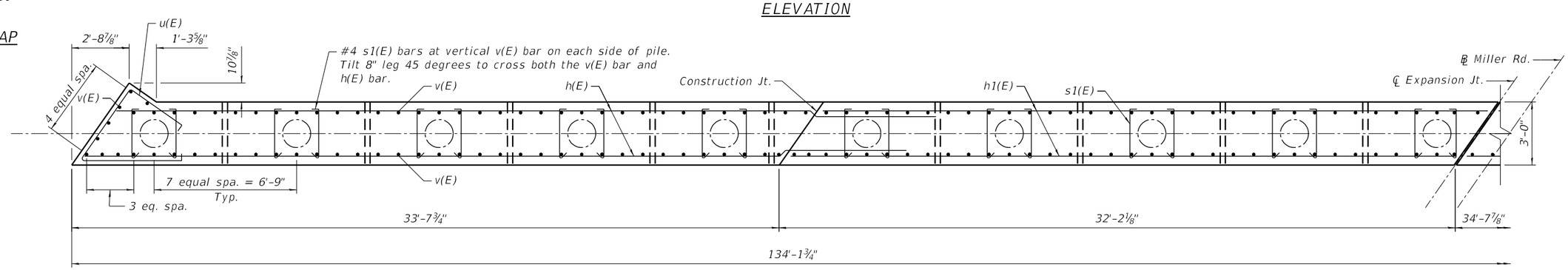
END VIEW

Bot. of Wall Elev. 820.00

MINIMUM BAR LAP

#5 bar = 3'-7"
#7 bar = 5'-0"

ELEVATION



SECTION A-A

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME: pw:\\hq-pwin01.a-e.transystems.com:transystems\Documents\Projects\CH401 - Chicago\P401130061\40.0000\44.0000\44.0800\Contract 2\Sheet Files\23 Structural Sheets\TSC\Sheets\SN 056-6406 - Miller Road over Woods Creek- Tributary\056640f6-4293-0112-WAbutPI

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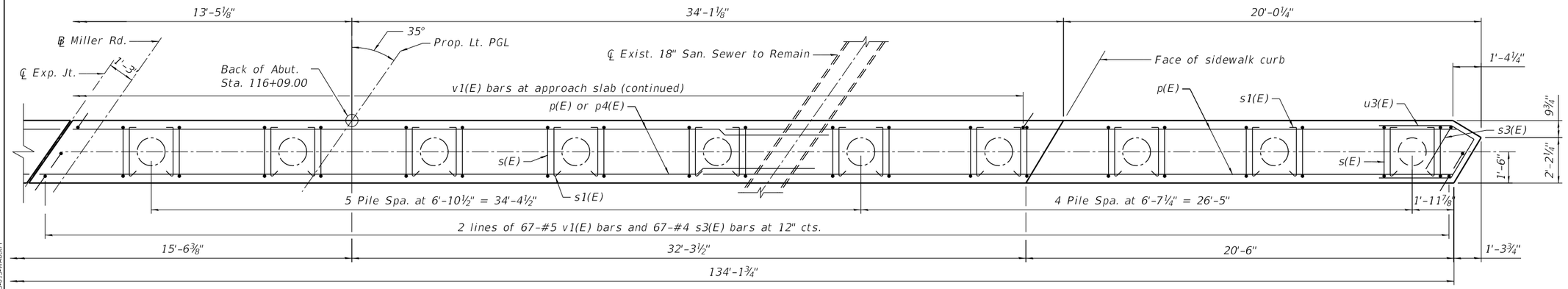
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

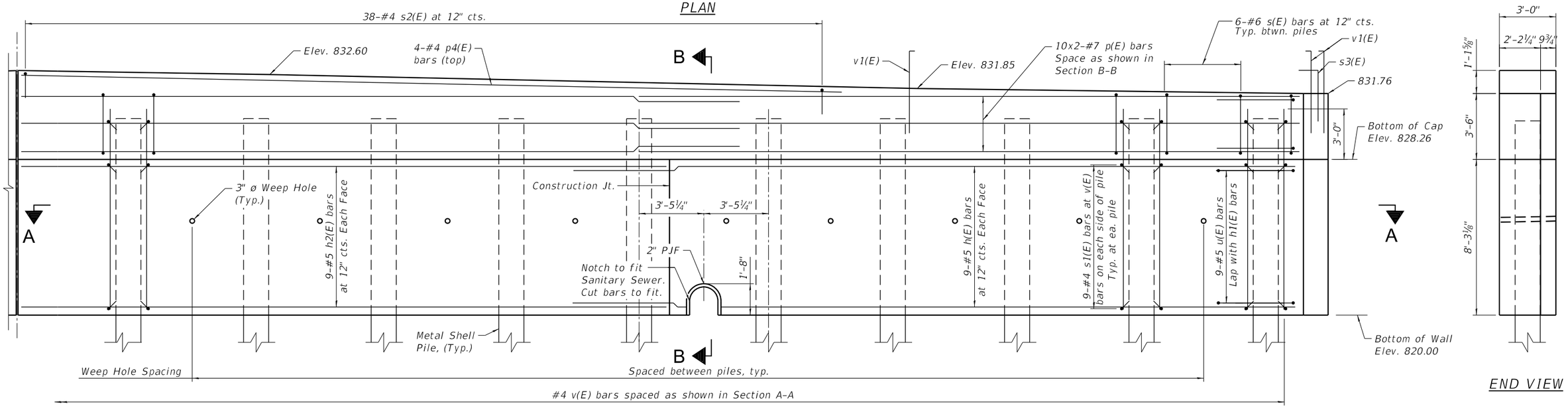
WEST ABUTMENT PLAN (1 OF 2)
STRUCTURE NO. 056-6406

SHEET S4-12 OF S4-29 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	546
		CONTRACT NO. 61J93		
		ILLINOIS	FED. AID PROJECT	



PLAN

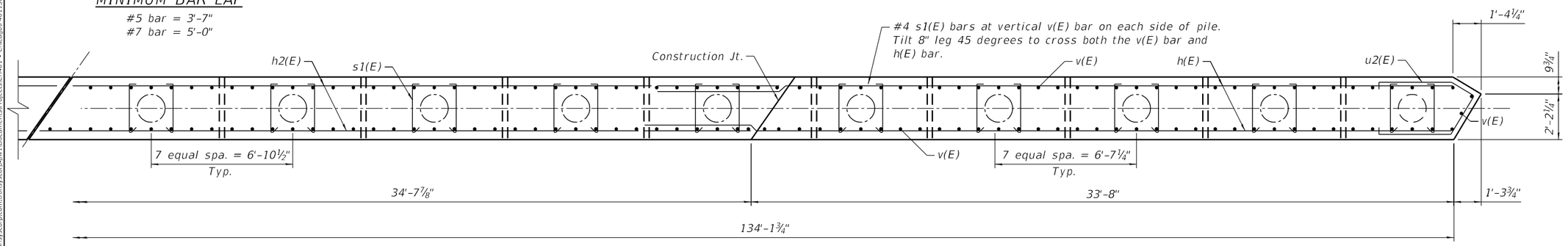


ELEVATION

END VIEW

MINIMUM BAR LAP

#5 bar = 3'-7"
#7 bar = 5'-0"



SECTION A-A

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
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	DRAWN - DMH	REVISED -	**DEPARTMENT OF TRANSPORTATION**
PLOT SCALE = 5.3333 ' / in.	CHECKED - CCF	REVISED -	
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -	

WEST ABUTMENT PLAN (2 OF 2)
STRUCTURE NO. 056-6406
SHEET S4-13 OF S4-29 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	547
		CONTRACT NO. 61J93		
	ILLINOIS FED. AID PROJECT			

PILE DATA – EAST ABUTMENT

Type: PP16 x 0.375"

Nominal Required Bearing: 364 kips

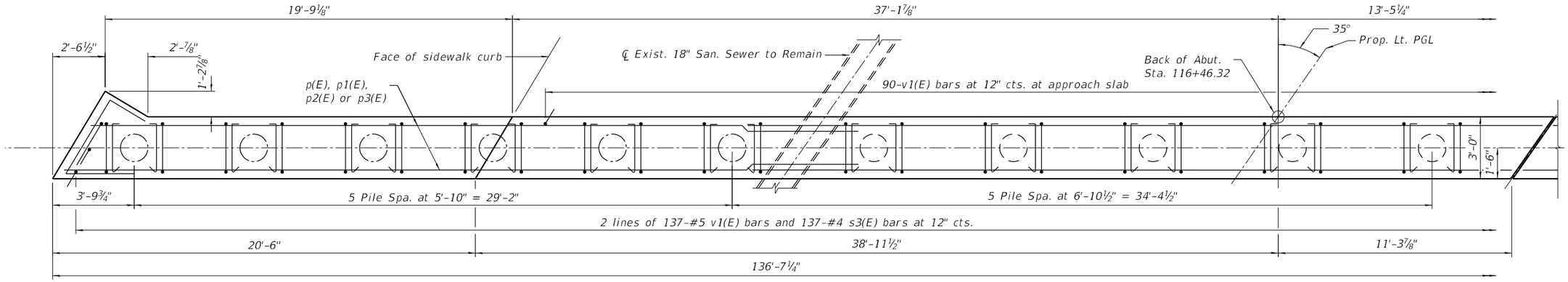
Factored Resistance Available: 200 kips

Est. Length: 60 feet

No. Production Piles: 20

No. Test Piles: 1

Min. Tip Elev. 798.00



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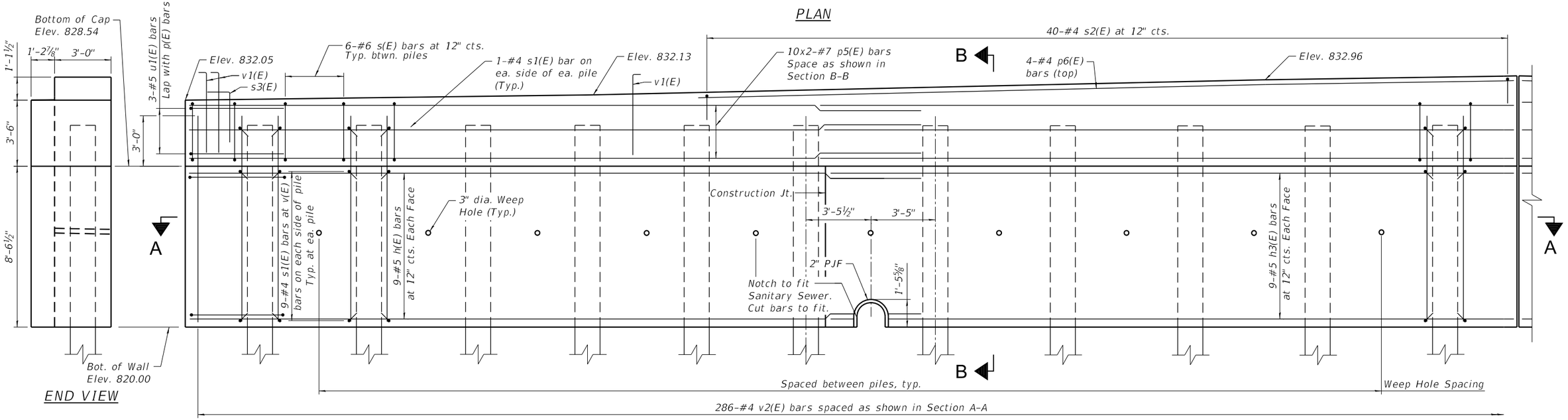


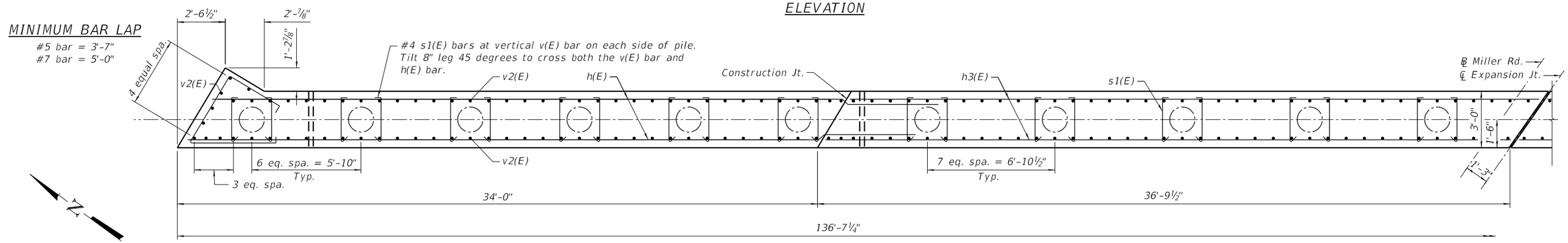
END VIEW

ELEVATION

MINIMUM BAR LAP

#5 bar = 3'-7"

#7 bar = 5'-0"



SECTION A-A

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
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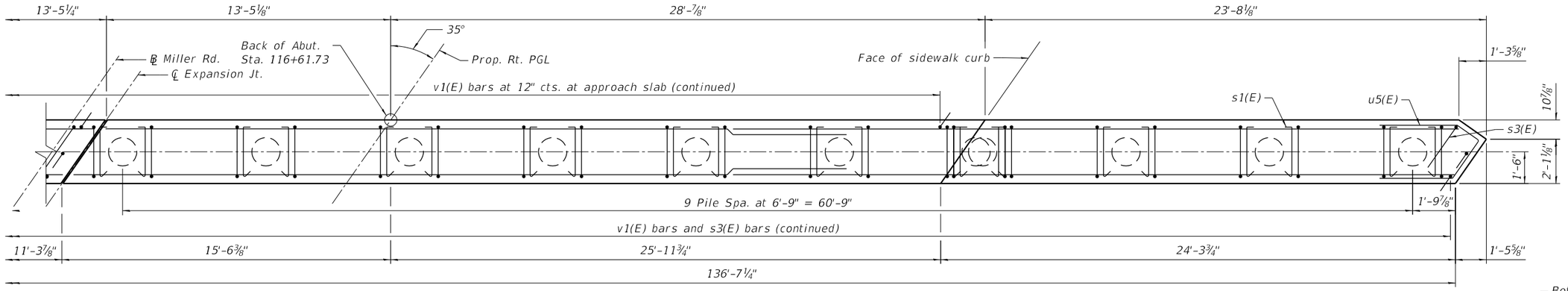
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT PLAN (1 OF 2)
STRUCTURE NO. 056-6406
SHEET S4-14 OF S4-29 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	548
		CONTRACT NO. 61J93		
	ILLINOIS FED. AID PROJECT			



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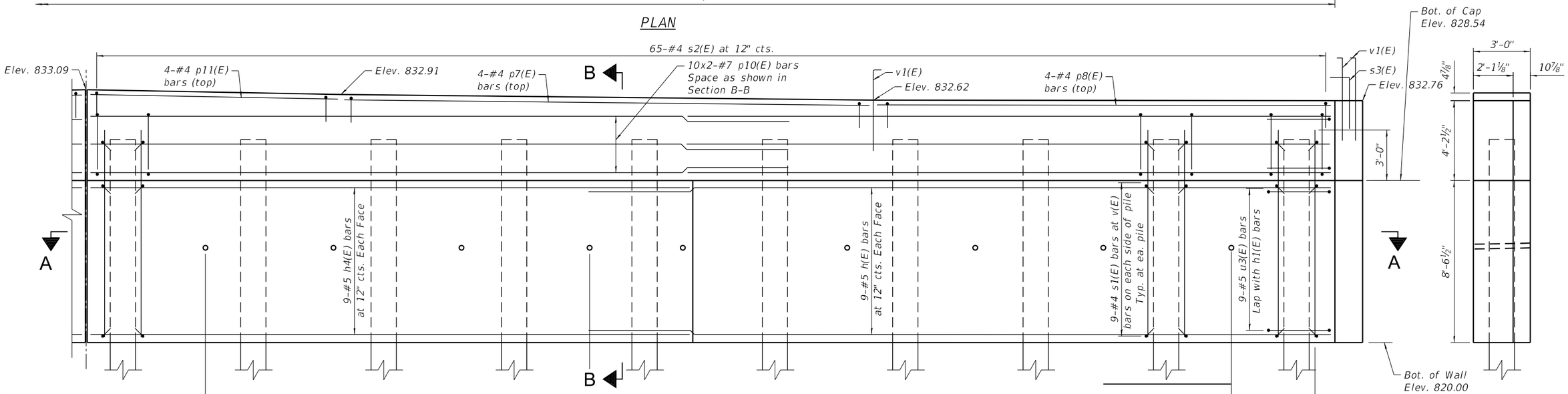
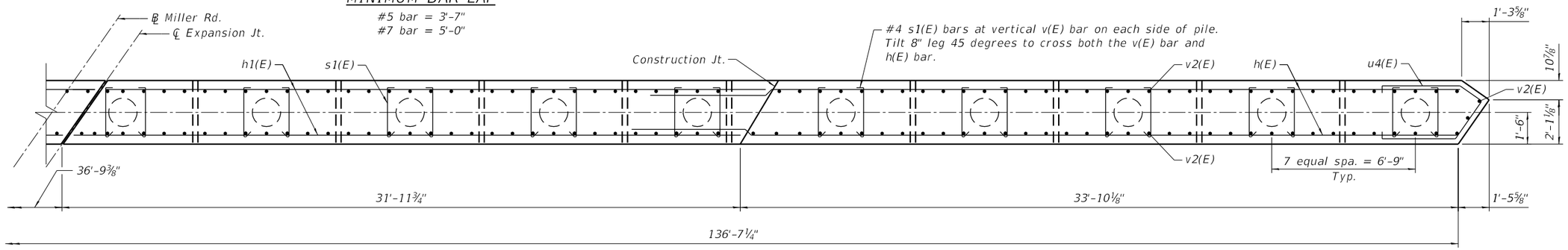


ELEVATION

END VIEW

MINIMUM BAR LAP

#5 bar = 3'-7"
#7 bar = 5'-0"



SECTION A-A

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

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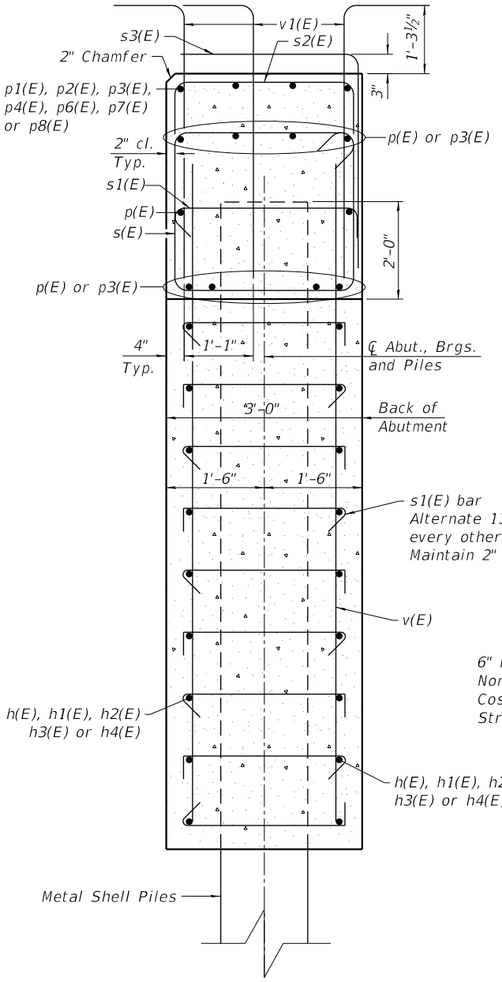
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -	

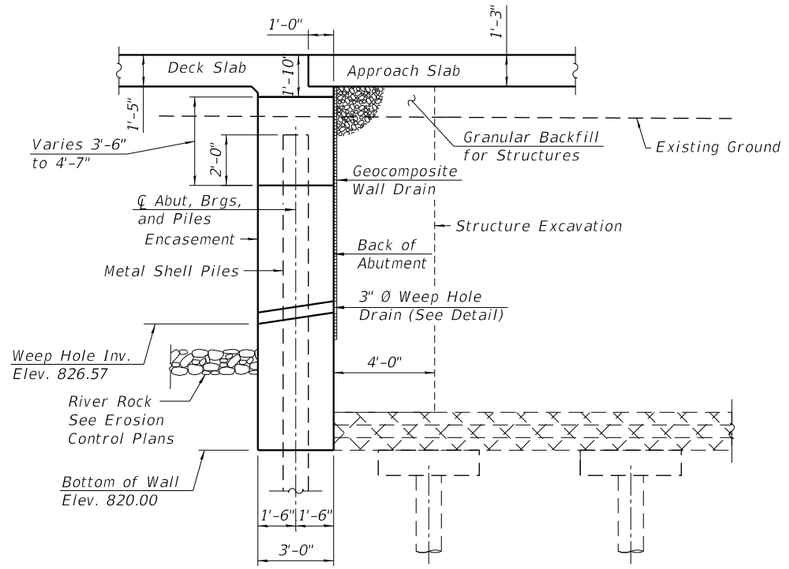
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT PLAN (2 OF 2)
STRUCTURE NO. 056-6406
SHEET S4-15 OF S4-29 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	549
		CONTRACT NO. 61J93		
	ILLINOIS FED. AID PROJECT			

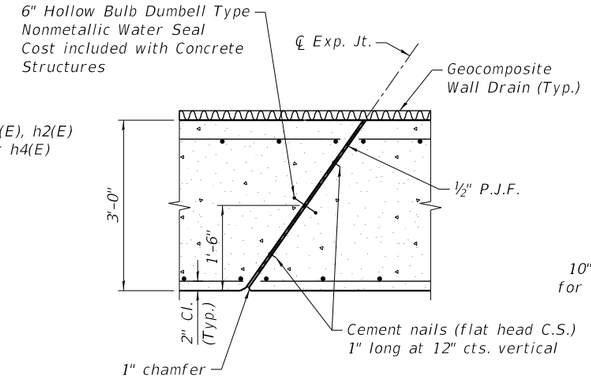


SECTION B-B

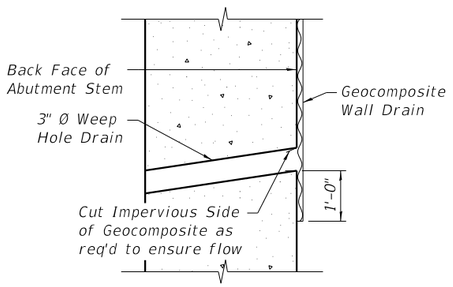


SECTION THRU ABUTMENT

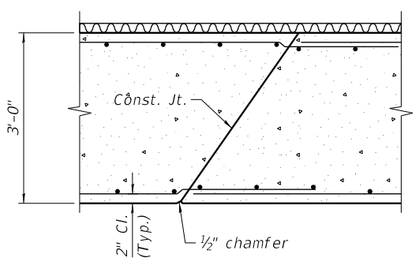
(Horiz. dim. at Rt. L's)



EXPANSION JOINT DETAIL



WEEP HOLE DRAIN DETAIL



CONSTRUCTION JOINT DETAIL

BILL OF MATERIAL WEST ABUTMENT

Bar	No.	Size	Length	Shape
h(E)	36	#5	37'-7"	
h1(E)	18	#5	31'-9"	
h2(E)	18	#5	34'-4"	
p(E)	20	#7	36'-4"	
p1(E)	4	#4	24'-0"	
p2(E)	4	#4	27'-10"	
p3(E)	4	#4	13'-2"	
p4(E)	4	#4	37'-0"	
p9(E)	20	#7	35'-3"	
s(E)	122	#6	13'-0"	
s1(E)	420	#4	3'-10"	
s2(E)	103	#4	5'-8"	
s3(E)	134	#4	5'-4"	
u(E)	9	#5	13'-5"	
u1(E)	3	#5	11'-9"	
u2(E)	9	#5	11'-11"	
u3(E)	3	#5	10'-3"	
v(E)	286	#5	11'-1"	
v1(E)	350	#5	5'-1"	

Item	Unit	Quantity
Structure Excavation	Cu Yd	420
Concrete Structures	Cu Yd	183.5
Reinforcement Bars, Epoxy Coated	Pound	15,650
Furnishing Steel Piles PP16 x 0.375"	Foot	874
Driving Piles	Foot	874
Test Pile, Steel PP16 x 0.375"	Each	1

BILL OF MATERIAL EAST ABUTMENT

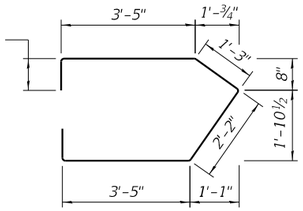
Bar	No.	Size	Length	Shape
h(E)	36	#5	37'-7"	
h3(E)	18	#5	36'-6"	
h4(E)	18	#5	31'-8"	
p5(E)	20	#7	37'-10"	
p6(E)	4	#4	39'-2"	
p7(E)	4	#4	27'-10"	
p8(E)	4	#4	24'-1"	
p10(E)	20	#7	35'-3"	
p11(E)	4	#4	13'-2"	
s(E)	122	#6	13'-0"	
s1(E)	420	#4	3'-10"	
s2(E)	105	#4	5'-8"	
s3(E)	137	#4	5'-4"	
u4(E)	9	#5	14'-6"	
u5(E)	3	#5	12'-10"	
u6(E)	9	#5	12'-0"	
u7(E)	3	#5	10'-4"	
v1(E)	364	#5	5'-1"	
v2(E)	290	#5	11'-5"	

Item	Unit	Quantity
Structure Excavation	Cu Yd	447
Concrete Structures	Cu Yd	193.2
Reinforcement Bars, Epoxy Coated	Pound	16,010
Furnishing Steel Piles PP16 x 0.375"	Foot	1,200
Driving Piles	Foot	1,200
Test Pile, Steel PP16 x 0.375"	Each	1

BAR v1(E)

BAR s3(E)

BAR s(E)



BAR u2(E) & u3(E)

BAR s1(E)

BAR s2(E)

BAR u(E) & u1(E)

BAR u4(E) & u5(E)

BAR u6(E) & u7(E)

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
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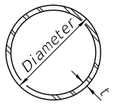
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT DETAILS
STRUCTURE NO. 056-6406

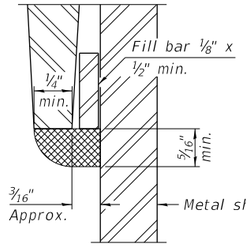
SHEET S4-16 OF S4-29 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	550
		CONTRACT NO. 61J93		
		ILLINOIS FED. AID PROJECT		

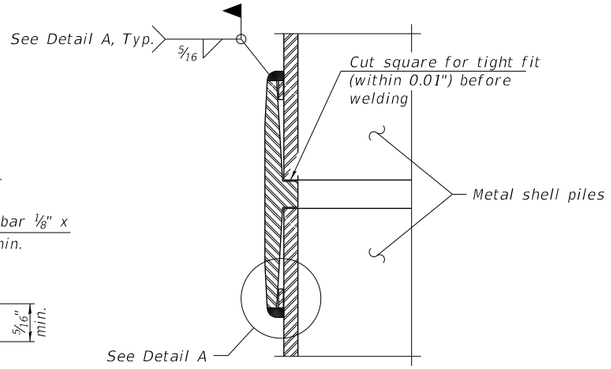


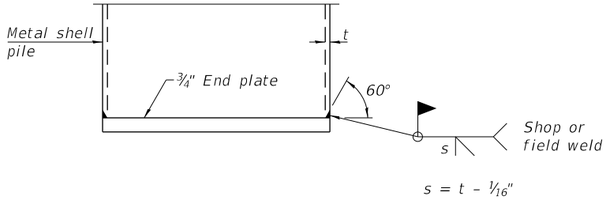
METAL SHELL PILE TABLE

Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd.³/ft.)
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361
PP16	0.312"	52.32	0.0478
PP16	0.375"	62.64	0.0470



DETAIL A

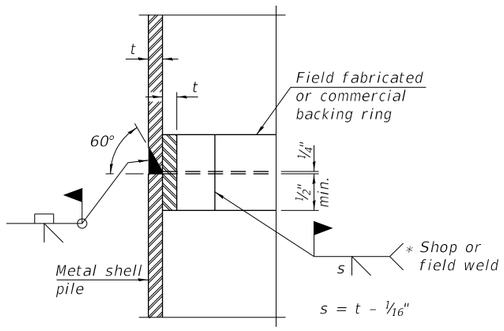




END PLATE ATTACHMENT

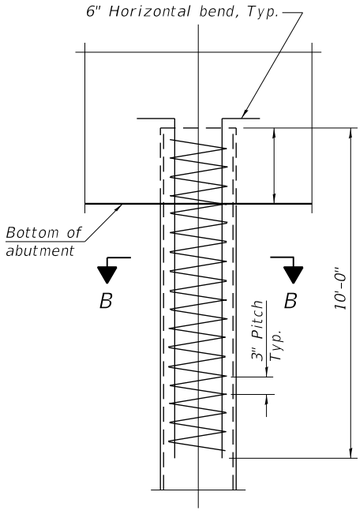
WELDED COMMERCIAL SPLICE

Notes:
The 1/8" x 1/2" min. fill bar may be constructed of 2 bars with a 1/8" max. gap between them.
Pile segments shall be driven to solid contact with splicer before welding.

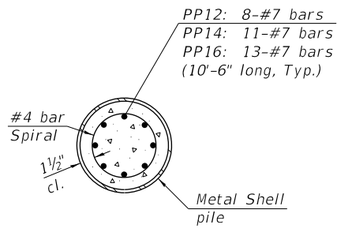


COMPLETE PENETRATION WELD SPLICE

* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



ELEVATION



SECTION B-B

REINFORCEMENT AT ABUTMENTS

(Omit when concrete encasement is specified)

Note:
The metal shell piles shall be according to Article 1006.05 of the Standard Specifications.

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USER NAME = Mlbeening	DESIGNED - CCF	REVISED -	
	DRAWN - DMH	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - CCF	REVISED -	
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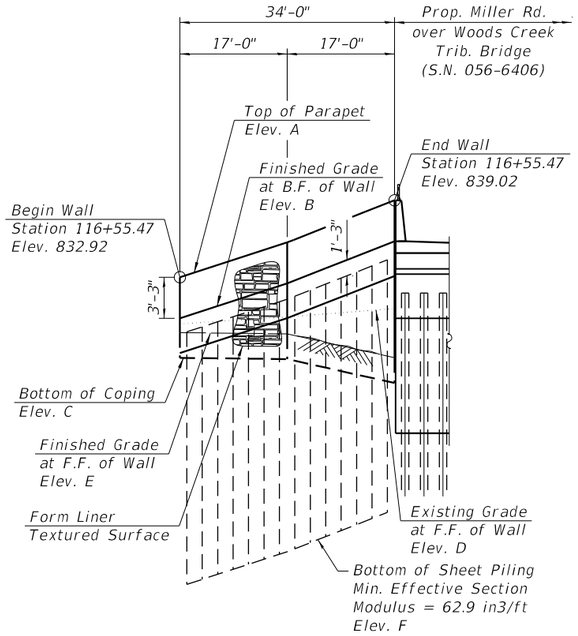
DEPARTMENT OF TRANSPORTATION

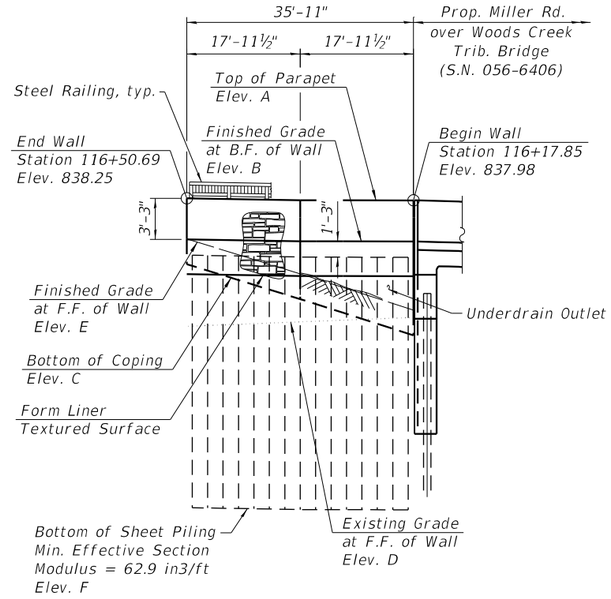
METAL SHELL PILE DETAILS
STRUCTURE NO. 056-6406
SHEET S4-17 OF S4-29 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	551
		CONTRACT NO. 61J93		
	ILLINOIS	FED. AID PROJECT		



SOUTHWEST WINGWALL - ELEVATION

(Looking West at F.F. of Wall)



NORTHEAST WINGWALL - ELEVATION

(Looking South at F.F. of Wall)

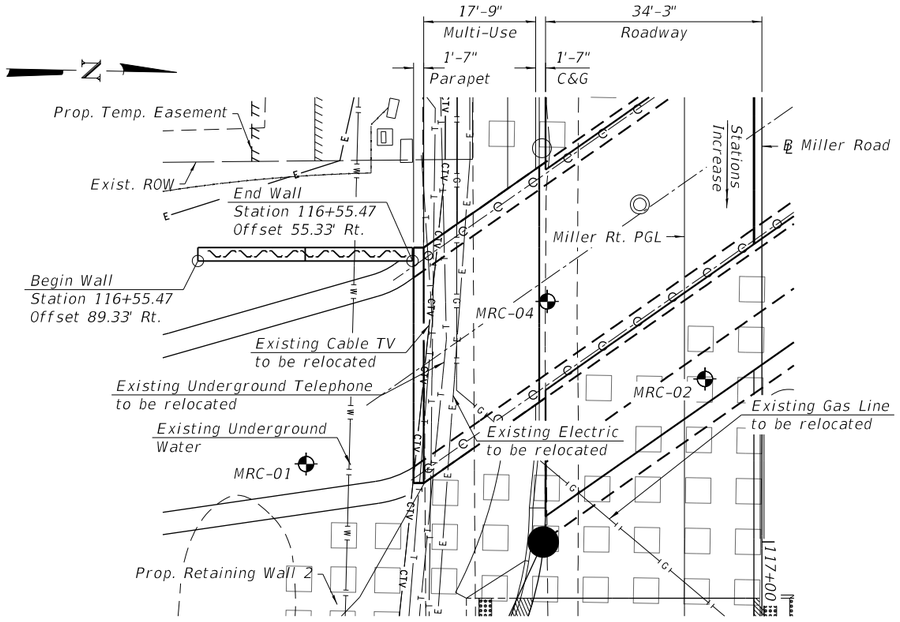
TABLE 1 - SOUTHWEST WINGWALL ELEVATIONS

Station	Offset	Elev. A	Elev. B	Elev. C	Elev. D	Elev. E	Elev. F
116+55.47	89.33' Rt.	832.92	829.67	826.54	829.23	828.54	788.42
116+55.47	72.33' Rt.	835.68	832.43	826.44	829.78	828.44	791.18
116+55.47	55.33' Rt.	839.02	835.77	824.55	830.44	826.55	794.52

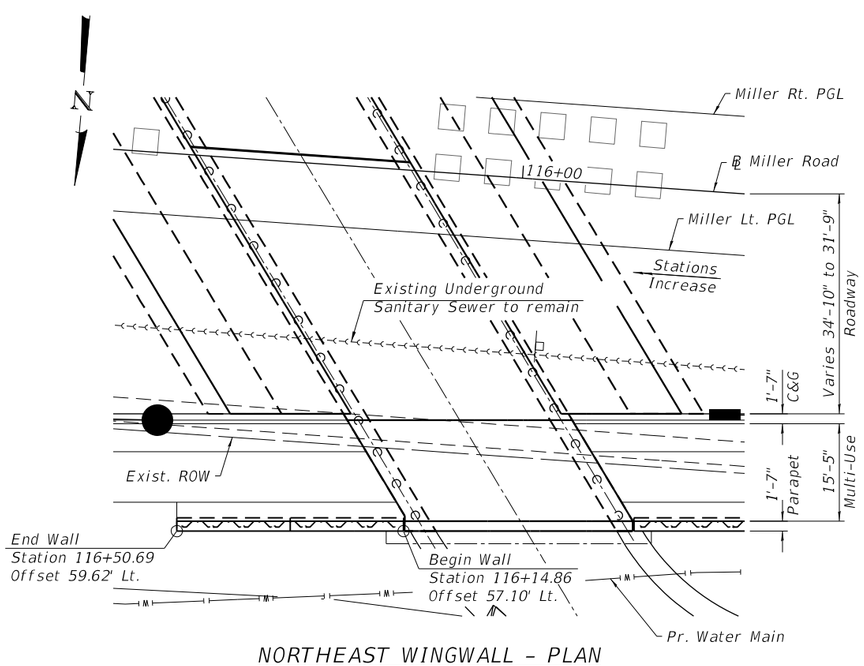
TABLE 2 - NORTHEAST WINGWALL ELEVATIONS

Station	Offset	Elev. A	Elev. B	Elev. C	Elev. D	Elev. E	Elev. F
116+14.86	57.1' Lt.	838.05	834.80	827.38	828.79	829.38	793.55
116+32.77	58.36' Lt.	838.07	834.82	830.24	828.44	832.24	793.57
116+50.69	59.62' Lt.	838.23	834.98	833.01	828.09	835.01	793.73

Elevation A - Top of Parapet
Elevation B - Finished Grade at Back Face of Wall
Elevation C - Bottom of Coping
Elevation D - Existing Grade at Front Face of Wall
Elevation E - Finished Grade at Front Face of Wall
Elevation F - Bottom of Sheet Piling



SOUTHWEST WINGWALL - PLAN



NORTHEAST WINGWALL - PLAN

LEGEND

- Exist. Cable TV
- Exist. Electric
- Exist. Gas
- Exist. Underground Telephone
- Exist. Underground Sanitary Sewer
- Exist. Underground Water
- Exist. ROW
- Prop. Temp. Easement
- Prop. Storm Sewer
- Exist. Catch Basin
- Exist. Manhole
- Soil Boring
- Timber Pile Ground Improvements

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PLOT DATE = 6/12/2024	DATE - 6/12/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET PILE WALLS PLAN AND ELEVATION 1
STRUCTURE NO. 056-6406

SHEET S4-18 OF S4-29 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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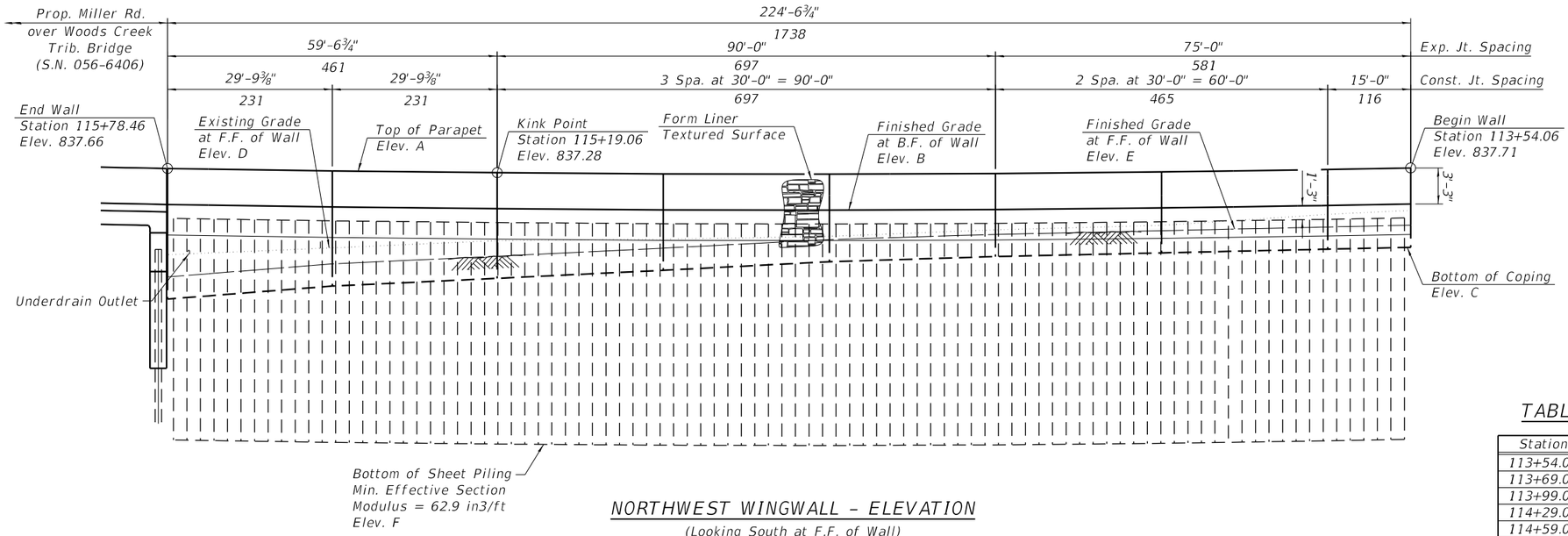
		CONTRACT NO. 61J93		
		ILLINOIS	FED. AID PROJECT	



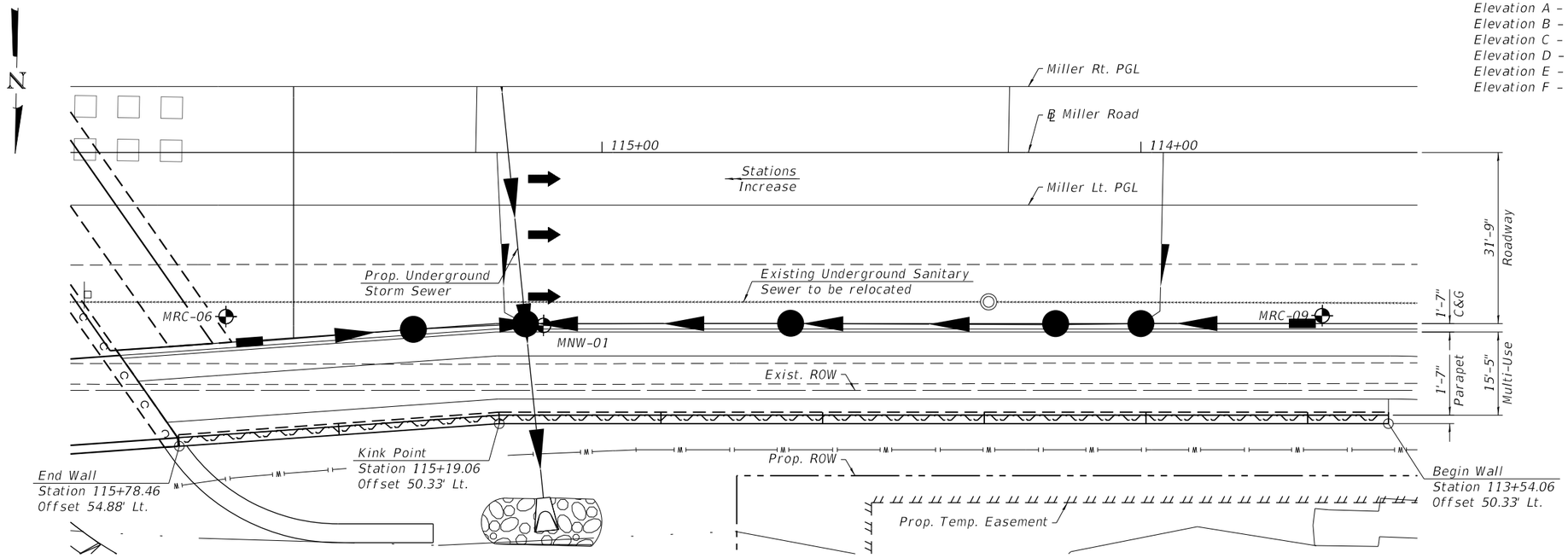
NORTHWEST WINGWALL - ELEVATION

(Looking South at F.F. of Wall)

TABLE 3 - NORTHWEST WINGWALL ELEVATIONS

Station	Offset	Elev. A	Elev. B	Elev. C	Elev. D	Elev. E	Elev. F
113+54.06	50.33' Lt.	837.71	834.46	830.54	833.88	832.54	793.21
113+69.06	50.33' Lt.	837.57	834.32	830.38	833.52	832.38	793.07
113+99.06	50.33' Lt.	837.35	834.10	830.04	832.52	832.04	792.85
114+29.06	50.33' Lt.	837.21	833.96	829.71	832.12	831.71	792.71
114+59.06	50.33' Lt.	837.15	833.90	829.24	831.54	831.24	792.65
114+89.06	50.33' Lt.	837.18	833.93	828.47	831.28	830.47	792.68
115+19.06	50.33' Lt.	837.28	834.03	827.74	831.15	829.74	792.78
115+48.76	52.43' Lt.	837.43	834.18	827.05	830.49	829.05	792.93
115+78.46	54.88' Lt.	837.66	834.41	825.87	829.88	827.87	793.16

Elevation A - Top of Parapet
Elevation B - Finished Grade at Back Face of Wall
Elevation C - Bottom of Coping
Elevation D - Existing Grade at Front Face of Wall
Elevation E - Finished Grade at Front Face of Wall
Elevation F - Bottom of Sheet Piling



NORTHWEST WINGWALL - PLAN

LEGEND

- Exist. Underground Sanitary Sewer
- Exist. ROW
- Temp. Easement
- Prop. Storm Sewer
- Ex. Manhole
- Soil Boring
- Timber Pile Ground Improvements

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STATE OF ILLINOIS
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SHEET PILE WALLS PLAN AND ELEVATION 2
STRUCTURE NO. 056-6406
SHEET S4-19 OF S4-29 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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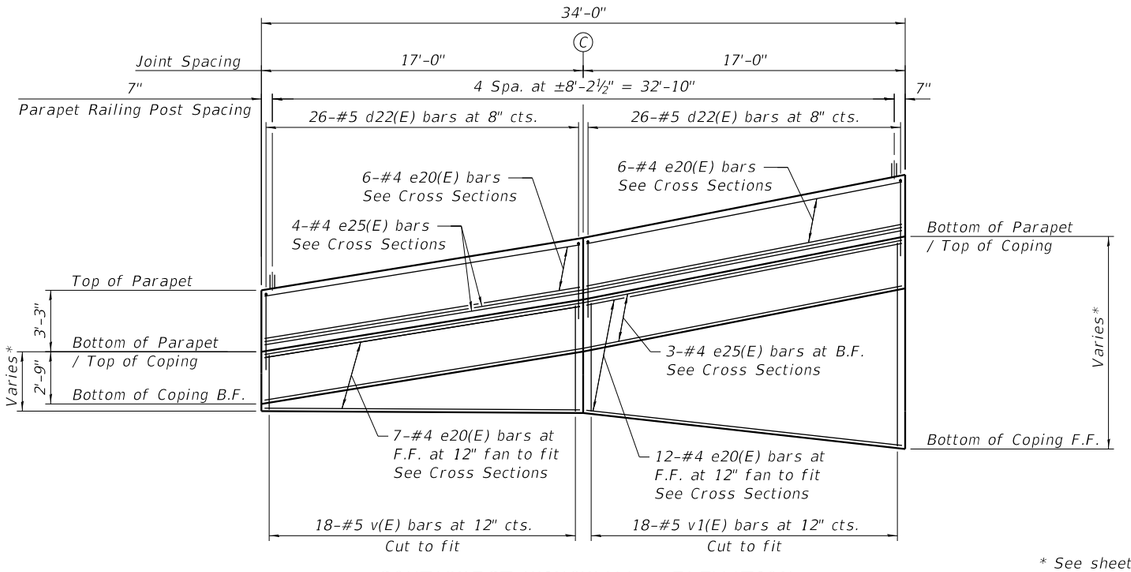
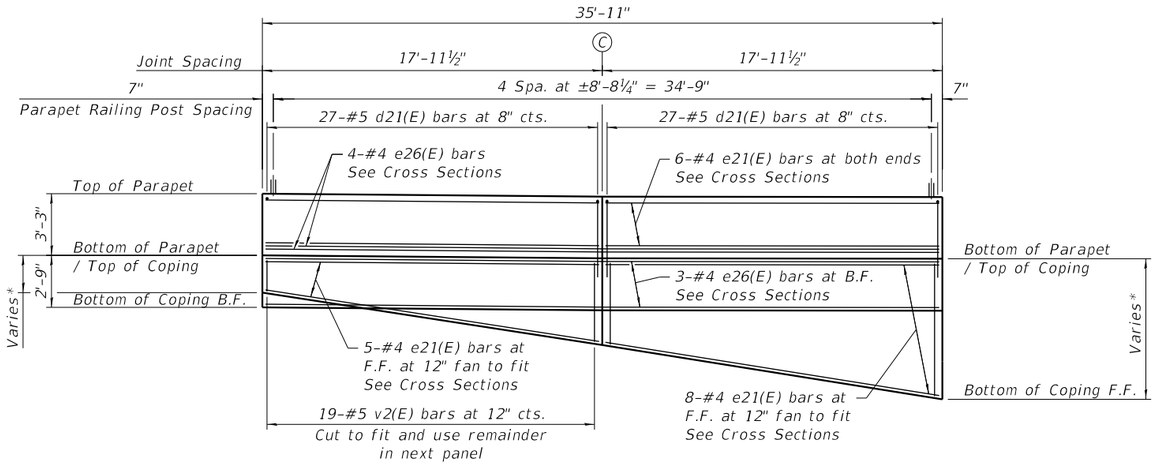
		CONTRACT NO. 61J93		
	ILLINOIS FED. AID PROJECT			

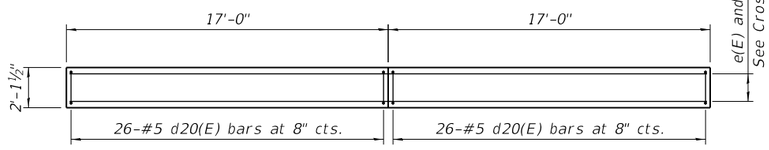


SOUTHWEST WINGWALL - ELEVATION

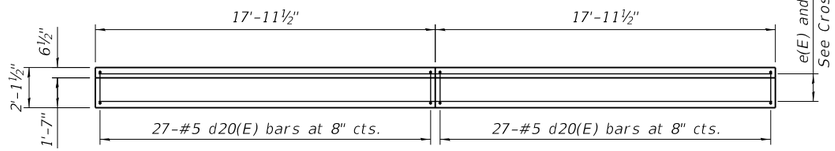


NORTHEAST WINGWALL - ELEVATION

* See sheets S4-18 and S4-19 for elevations.



SOUTHWEST WINGWALL - PLAN



NORTHEAST WINGWALL - PLAN

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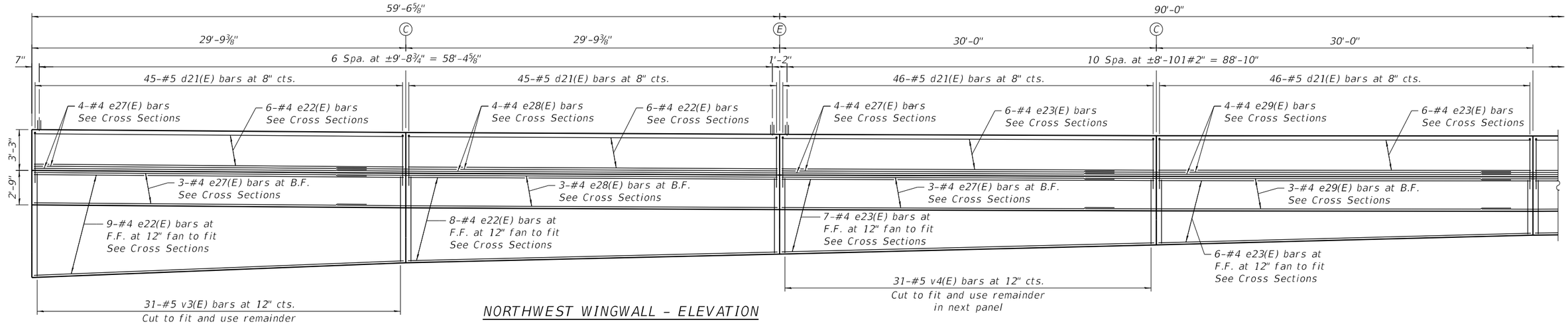
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

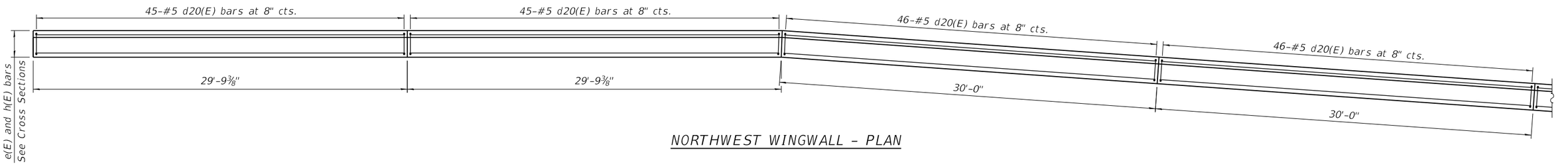
SHEET PILE WALLS PLAN AND ELEVATION 3
STRUCTURE NO. 056-6406

SHEET S4-20 OF S4-29 SHEETS

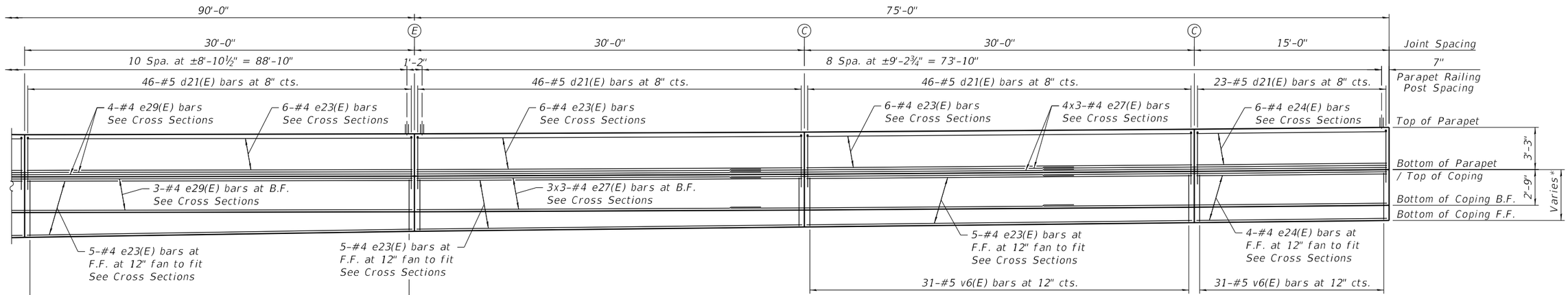
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	554
		CONTRACT NO. 61J93		
	ILLINOIS	FED. AID PROJECT		



NORTHWEST WINGWALL - ELEVATION

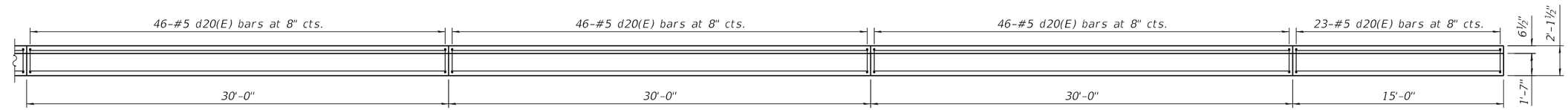


NORTHWEST WINGWALL - PLAN



NORTHWEST WINGWALL - ELEVATION

* See sheets S4-18 and S4-19 for elevations.



NORTHWEST WINGWALL - PLAN

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PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET PILE WALLS PLAN AND ELEVATION 4
STRUCTURE NO. 056-6406
SHEET S4-21 OF S4-29 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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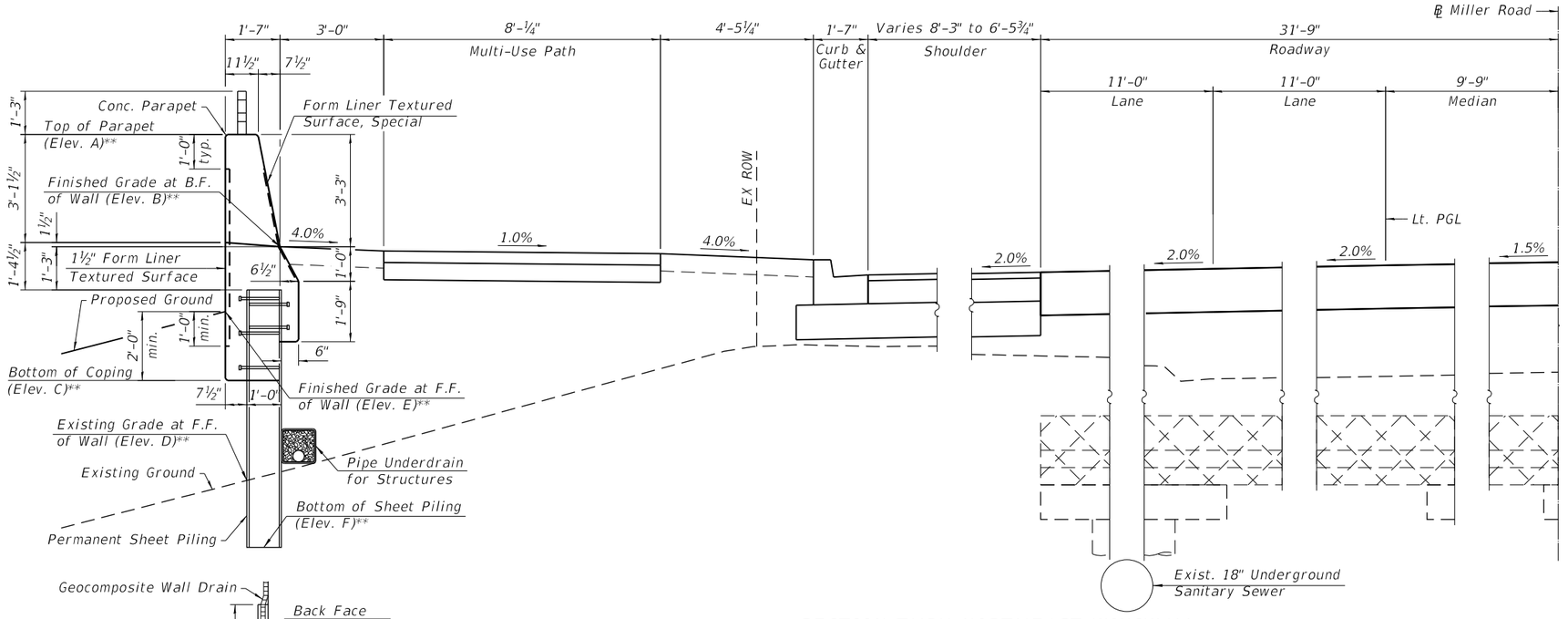
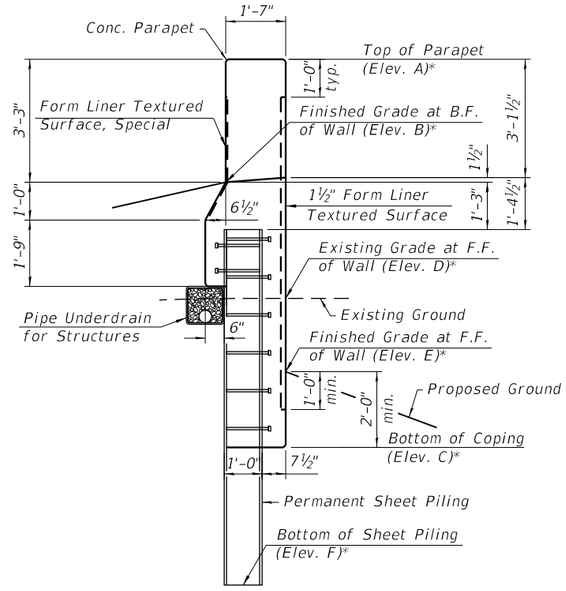
		CONTRACT NO. 61J93		
		ILLINOIS	FED. AID PROJECT	



SECTION THRU NORTHEAST WINGWALL

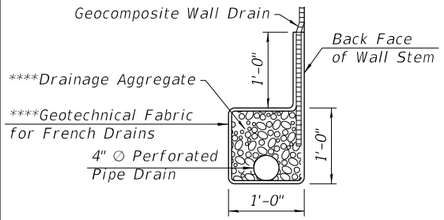
(Sta. 116+14.86 to 116+50.69)
(Looking East)



SECTION THRU SOUTHWEST WINGWALL

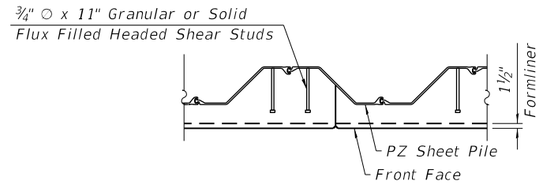
(Sta. 116+55.47)
(Looking North)

* For Elevations, See Table 1 on Sheet S4-18 of S4-29
** For Elevations, See Table 2 on Sheet S4-18 of S4-29
*** For Elevations, See Table 3 on Sheet S4-19 of S4-29
**** Included in the cost of "Pipe Underdrains for Structures"

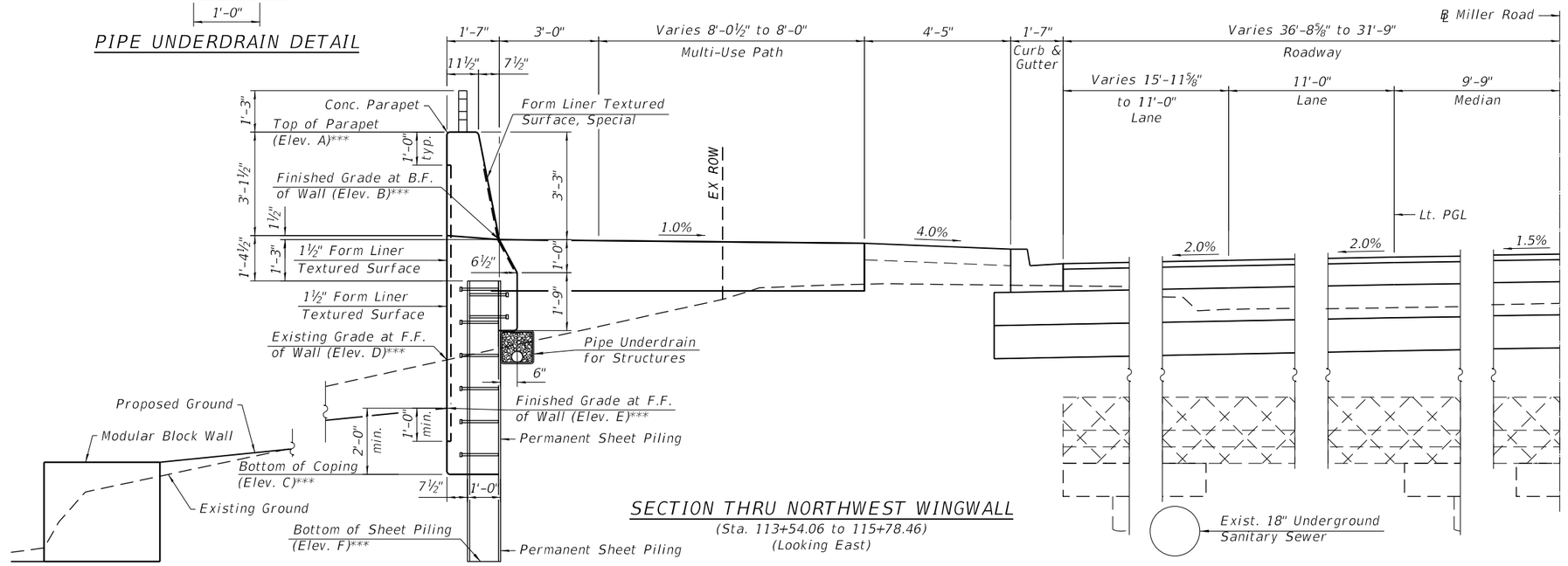


PIPE UNDERDRAIN DETAIL

EXPANSION JOINT DETAIL



CONSTRUCTION JOINT DETAIL



SECTION THRU NORTHWEST WINGWALL

(Sta. 113+54.06 to 115+78.46)
(Looking East)

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PLOT DATE = 6/12/2024	DATE - 6/12/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET PILE WALL DETAILS 1
STRUCTURE NO. 056-6406
SHEET S4-22 OF S4-29 SHEETS

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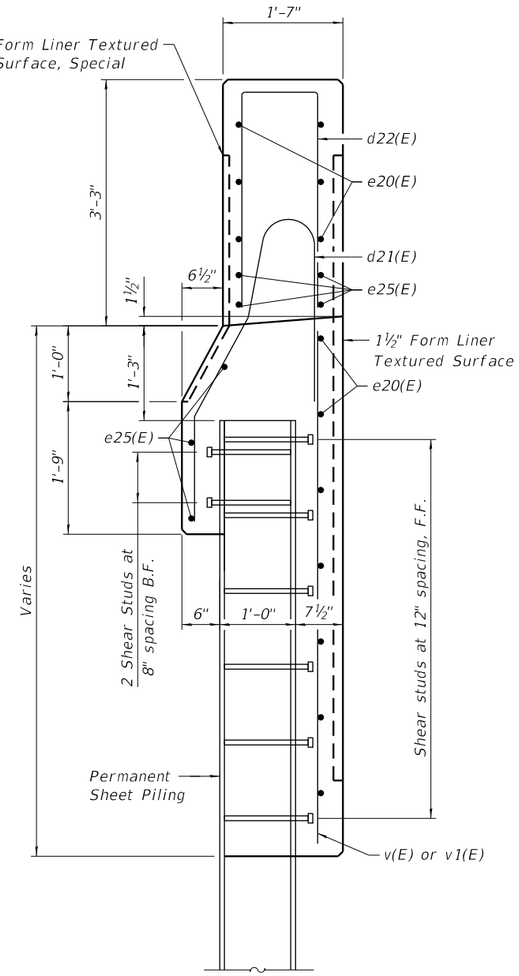
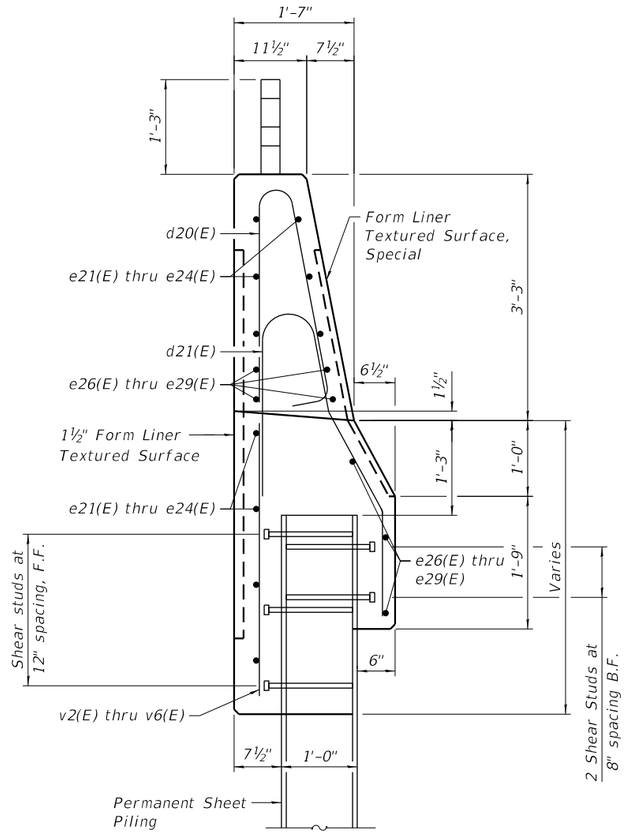
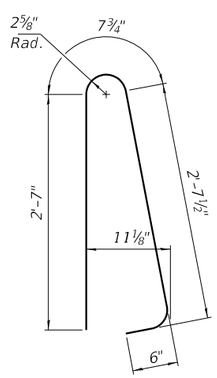


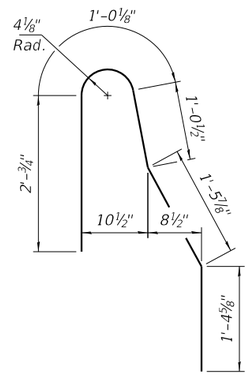
SECTION THRU SOUTHWEST WALL



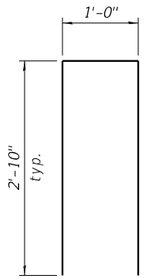
SECTION THRU WALL



BAR d20(E)



BAR d21(E)



BAR d22(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d20(E)	417	#5	6'-6"	
d21(E)	365	#5	7'-2"	
d22(E)	52	#5	6'-8"	
e20(E)	31	#4	16'-8"	
e21(E)	25	#4	17'-8"	
e22(E)	29	#4	29'-6"	
e23(E)	58	#4	29'-8"	
e24(E)	10	#4	14'-8"	
e25(E)	7	#4	33'-8"	
e26(E)	7	#4	35'-7"	
e27(E)	35	#4	26'-6"	
e28(E)	7	#4	35'-2"	
e29(E)	14	#4	34'-0"	
v(E)	18	#5	5'-8"	
v1(E)	18	#5	10'-10"	
v2(E)	19	#5	8'-7"	
v3(E)	31	#5	14'-1"	
v4(E)	31	#5	10'-3"	
v5(E)	31	#5	8'-0"	
v6(E)	47	#5	3'-7"	
Concrete Structures			Pound	107.3
Reinforcement Bars, Epoxy Coated			Cu. Yds.	11,470

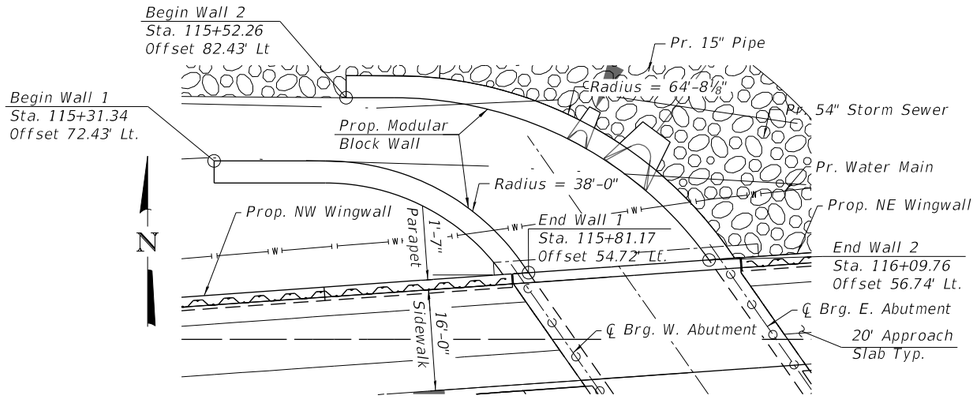
TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

USER NAME = MIbeening	DESIGNED - IS	REVISED -	
	DRAWN - IS	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - MDS	REVISED -	
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET PILE WALL DETAILS 2
STRUCTURE NO. 056-6406
SHEET S4-23 OF S4-29 SHEETS

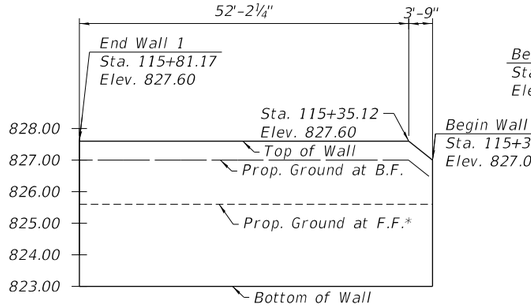
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	557
		CONTRACT NO. 61J93		
		ILLINOIS	FED. AID PROJECT	



NORTH MILLER ROAD PLAN

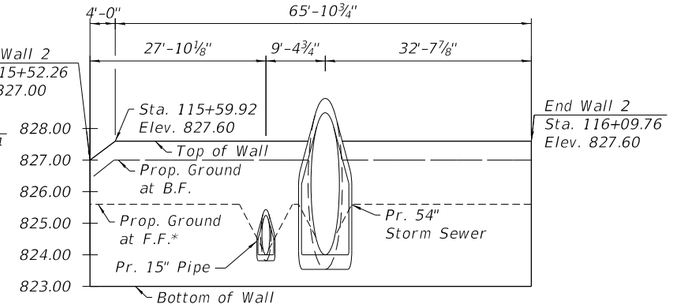
LEGEND

- Exist. Underground Water
- Exist. Electric
- Exist. Gas
- Exist. Underground Telephone
- Exist. Underground Sanitary Sewer
- Exist. Cable TV
- Exist. ROW
- Prop. ROW
- Prop. Temp. Easement
- Prop. Storm Sewer
- Soil Boring
- Timber Pile Ground Improvements



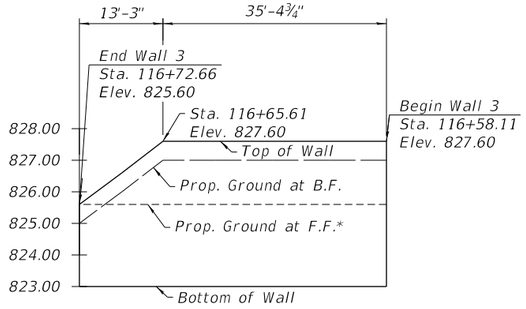
WALL 1 ELEVATION

Looking at F.F. of Wall



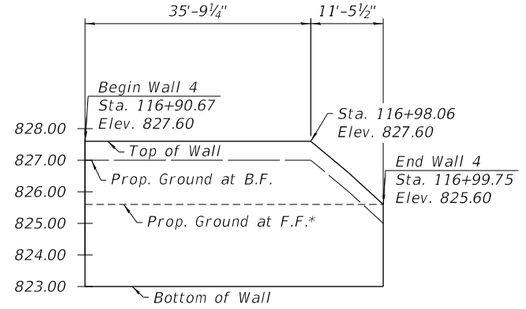
WALL 2 ELEVATION

Looking at F.F. of Wall



WALL 3 ELEVATION

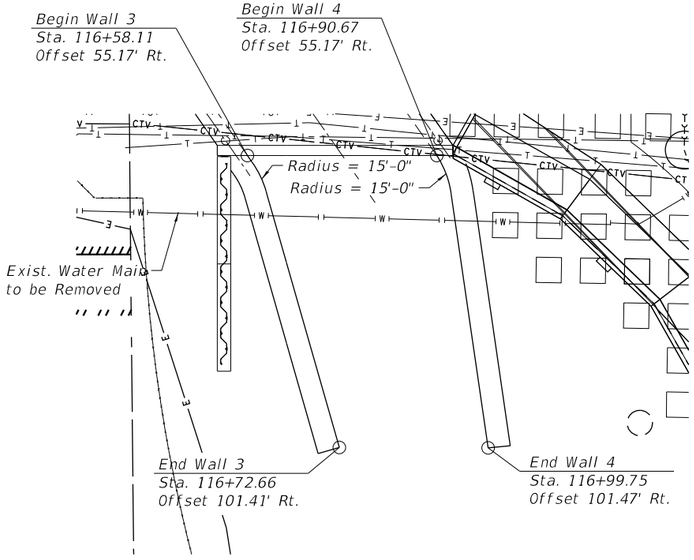
Looking at F.F. of Wall



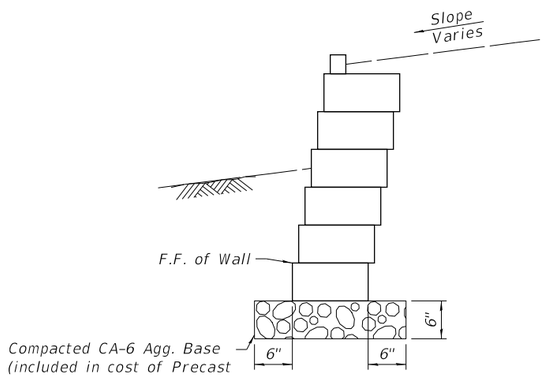
WALL 4 ELEVATION

Looking at F.F. of Wall

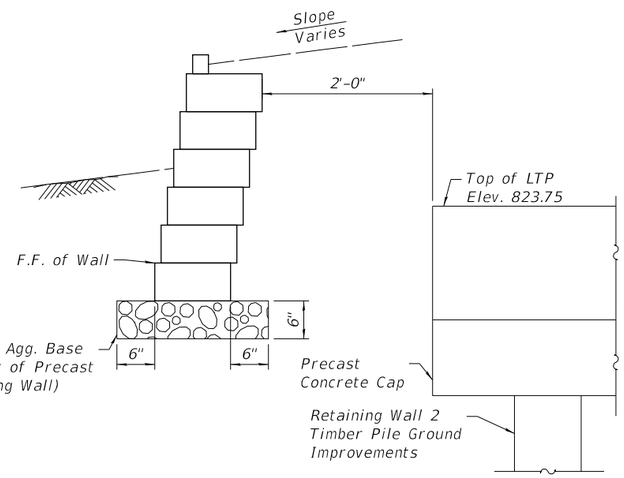
* Elev. 825.60 typ.



SOUTH MILLER ROAD PLAN



TYPICAL SECTION THRU WALL



SECTION THRU WALL WITH GROUND IMPROVEMENTS

BILL OF MATERIAL

Item	Unit	Total
Precast Modular Retaining Wall	Sq Ft	810

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME: pw:\\Ne-jowin01.ja-e.transystems.com:transystems\Projects\CH401 - Chicago\P401130061\40.0000\44.0000\44.0800\Contract 2\Sheet Files\123 Structural Sheets\TSC\Sheets\SN 056-6406 - Miller Road over Woods Creek Tributary\056406-6293-024-MoistWall

USER NAME = Mbeening	DESIGNED - JE	REVISED -	
	DRAWN - JE	REVISED -	
PLOT SCALE = 24.0000 ' / in.	CHECKED - TJA	REVISED -	
PLOT DATE = 6/12/2024	DATE - 6/12/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
PRECAST MODULAR RETAINING WALLS 1-4

SHEET S4-24 OF S4-29 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	558
		CONTRACT NO. 61J93		
	ILLINOIS FED. AID PROJECT			

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

Wang Engineering

wangeng@wangeng.com

Telephone:
Fax:

BORING LOG MNW-01

WEI Job No.: KE225090

Client: **TranSystems Corporation**
Project: **Randall Road Phase II Improvements**
Location: **McHenry County, IL**

Datum: NAVD 88
Elevation: 832.97 ft
North: 2011977.79 ft
East: 983342.56 ft
Station: 115+10.85
Offset: 32.1070 Lt

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	832.0	11-inch thick, dark brown SILTY CLAY LOAM						
		--TOPSOIL--						
		Medium stiff to very stiff, brown to black and dark brown SILTY CLAY LOAM, trace gravel; damp to moist			1	4 5 6	2.13 B	9
		--FILL--						
		--RDR 2--	5		2	3 4 5	0.66 B	30
	827.5	Medium stiff, black SILTY CLAY, trace gravel; moist			3	2 3 3	0.98 B	27
		--FILL--						
		--RDR 2--						
	825.0	Medium stiff, black SILTY CLAY, trace roots, trace gravel; moist			4	3 6 11	0.75 P	49
	824.0	--BURIED TOPSOIL--	10					
	822.5	Medium dense, brown and gray SANDY GRAVEL; saturated						
	821.5	--frequent rig chatter, 9 to 11 feet--			5	6 9 11	NP	6
		Soft, black SILTY CLAY LOAM to LOAM, little gravel; wet						
		Medium dense to very dense, gray SANDY GRAVEL; wet to saturated						
		--RDR 3--	15		6	12 6 9	NP	11
					7	8 12 15	NP	8
			20		8	11 13 13	NP	11
	811.2	--constant rig chatter, 20.5 to 21 feet--						
	810.5	Very dense, red GRAVEL; saturated			9	20 28 32	NP	13
		--possible cobbles--						
		Medium dense, gray SANDY GRAVEL; saturated						
		--RDR 3--	25		10	9 13 14	NP	
		--heaving sand--			11	5 8 19	NP	
		--frequent rig chatter--						
	805.0	Hard, gray SILTY CLAY LOAM, trace gravel; damp						
		--RDR 3--	30		12	6 3 7	3.75 P	
		--possible cobbles--			13	7 10 10	NR	
		--frequent rig chatter, 35 to 38.5 feet--	35					
	796.2	Stiff, pinkish gray CLAY LOAM, trace gravel; moist						
		--RDR 3--			14	6 13 14	1.50 P	
	793.0	Boring terminated at 40.00 ft	40					

WANGENGINC 7907701.GPJ WANGENG.GDT 4/21/23

GENERAL NOTES

Begin Drilling: **03-08-2023** Complete Drilling: **03-14-2023**
Drilling Contractor: **Wang Testing Services** Drill Rig:
Driller: **NC&KG; AG&EH** Logger: **D. You / D. Morken** Checked by: **M. Snider**
Drilling Method: **3.25" ID HSA; Boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **9.00 ft**
At Completion of Drilling: **16.00 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.

Wang Engineering

wangeng@wangeng.com

Telephone:
Fax:

BORING LOG MRC-01

WEI Job No.: KE225090

Client: **TranSystems Corporation**
Project: **Randall Road Phase II Improvements**
Location: **McHenry County, IL**

Datum: NAVD88
Elevation: 830.18 ft
North: 2011877.17 ft
East: 983521.47 ft
Station: 116+87.63
Offset: 72.20 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	829.7	6-inch thick, black SILTY LOAM						
		--TOPSOIL--						
		Very stiff, black and dark brown SILTY CLAY LOAM, trace gravel, roots, fibers			1	6 3 4	3.75 P	29
		--FILL--						
			5		2	4 7 6	2.50 P	30
					3	2 2 1	3.00 P	28
	822.2	Medium stiff, brown, fibrous, organic SILTY CLAY						
			10		4	1 2 1	0.66 B	93
	819.7	Very soft, bluish gray, fibrous SILTY LOAM			5	0 1 8	0.16 B	28
		--L_L(%)=24, P_L(%)=14--						
		--%Gravel=0.1--						
		--%Sand=18.2--						
		--%Silt=64.5--						
		--%Clay=17.2--						
	817.2	Loose to medium dense, gray GRAVELLY SAND; wet			6	3 8 7	NP	14
			15		7	4 5 6	NP	15
			20		8	3 4 4	NP	13
	807.2	Very soft, bluish gray SILTY CLAY LOAM to SILTY CLAY			9	8 7 6	NP	17
			25		10	3 3 14	< 0.25 P	22
	804.7	Medium dense, gray GRAVELLY SAND; wet			11	11 11 11	NP	15
			30		12	6 9 9	NP	18
			35		13	9 12 13	NP	15
	793.4	Stiff to very stiff, gray and reddish brown CLAY LOAM to SILTY CLAY LOAM, trace to little gravel						
			40		14	4 7 8	1.00 P	16

WANGENGINC 7907701.GPJ WANGENG.GDT 4/21/23

GENERAL NOTES

Begin Drilling: **02-25-2015** Complete Drilling: **02-25-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig:
Driller: **K& J** Logger: **A. Happel** Checked by: **A. Hamad**
Drilling Method: **3.25-inch IDA HSA, auto hammer, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **10.50 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.

Wang Engineering

wangeng@wangeng.com

Telephone:
Fax:

BORING LOG MRC-01

WEI Job No.: KE225090

Client: **TranSystems Corporation**
Project: **Randall Road Phase II Improvements**
Location: **McHenry County, IL**

Datum: NAVD88
Elevation: 830.18 ft
North: 2011877.17 ft
East: 983521.47 ft
Station: 116+87.63
Offset: 72.20 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	7 8 11	2.71 B	12
			50		16	6 7 10	2.05 S	12
			55		17	7 8 12	3.77 B	12
	770.2	Boring terminated at 60.00 ft	60		18	6 9 12	2.95 B	12

WANGENGINC 7907701.GPJ WANGENG.GDT 4/21/23

GENERAL NOTES

Begin Drilling: **02-25-2015** Complete Drilling: **02-25-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig:
Driller: **K& J** Logger: **A. Happel** Checked by: **A. Hamad**
Drilling Method: **3.25-inch IDA HSA, auto hammer, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **10.50 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.

USER NAME = MIbeening	DESIGNED - IS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BORING LOGS 1 STRUCTURE NO. 056-6406	
	DRAWN - IS	REVISED -			
PLOT SCALE = 2.0000 ' / in.	CHECKED - TJA	REVISED -			
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -		SHEET S4-25 OF S4-29 SHEETS	

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	559
		CONTRACT NO. 61J93		
	ILLINOIS	FED. AID PROJECT		

Wang Engineering
wangeng@wangeng.com
Telephone:
Fax:

BORING LOG MRC-02

WEI Job No.: KE225090
Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 831.73 ft
North: 2011940.07 ft
East: 983506.69 ft
Station: 116+74.16
Offset: 09.00 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		16-inch thick, ASPHALT --PAVEMENT--						
	830.4							
	830.0	5-inch thick, black SANDY LOAM; dry --AGGREGATE BASE--						
		Stiff, brown and gray CLAY LOAM, trace gravel --FILL--			1	8 9 7	1.50 P	9
	828.6							
		Medium stiff, black SILTY LOAM to SILTY CLAY LOAM, sand lenses	5		2	4 3 3	0.75 P	26
	826.2	-- BURIED TOPSOIL--						
		Soft to medium stiff, black and gray SILTY CLAY, trace organic matter and roots			3	2 1 2	0.74 B	49
			10		4	0 1 1	0.41 B	39
					5	0 0 0	0.25 B	54
	818.7	Very soft, gray SILTY CLAY LOAM, sand lenses						
			15		6	0 3 1	< 0.25 P	19
	816.2	Medium dense, gray, medium to coarse GRAVELLY SAND; wet						
					7	6 6 7	NP	23
	795.0	Gray, fine SAND; wet						
	793.4	--heaving sand-- Medium stiff to hard, pinkish gray CLAY LOAM, trace gravel	20		8	9 8 10	NP	16
		--hard drilling 28.5' to 38.5'-- --possible cobbles--	25		9	9 10 9	NP	11
					10	5 8 7	NP	14
					11	10 10 11	NP	11
			30		12	10 11 11	NP	10
					13	13 10 8	NP	12
			35		14	6 6 6	0.50 P	15

GENERAL NOTES

Begin Drilling: 03-30-2015 Complete Drilling: 03-30-2015
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: R & J Logger: A. Tomaras Checked by: A. Hamad
Drilling Method: 4.00-inch OD CFA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 5.50 ft
At Completion of Drilling: MUD
Time After Drilling: NA
Depth to Water: NA

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

WANGENGINC 7907701.GPJ WANGENG.GDT 4/21/23

Wang Engineering
wangeng@wangeng.com
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Fax:

BORING LOG MRC-02

WEI Job No.: KE225090
Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 831.73 ft
North: 2011940.07 ft
East: 983506.69 ft
Station: 116+74.16
Offset: 09.00 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	9 11 11	1.25 P	13
			50		16	5 7 11	2.21 B	13
		--L_L(%)=21, P_L(%)=11-- --%Gravel=4.3-- --%Sand=34.9-- --%Silt=41.2-- --%Clay=19.5--	55		17	7 11 13	2.00 P	13
			60		18	9 10 15	2.30 B	12
			65		19	6 8 12	2.71 B	12
			70		20	8 13 15	2.54 B	12
			75		21	8 14 19	4.59 B	12
	756.7	Boring terminated at 75.00 ft						

GENERAL NOTES

Begin Drilling: 03-30-2015 Complete Drilling: 03-30-2015
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: R & J Logger: A. Tomaras Checked by: A. Hamad
Drilling Method: 4.00-inch OD CFA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 5.50 ft
At Completion of Drilling: MUD
Time After Drilling: NA
Depth to Water: NA

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

WANGENGINC 7907701.GPJ WANGENG.GDT 4/21/23

Wang Engineering
wangeng@wangeng.com
Telephone:
Fax:

BORING LOG MRC-03

WEI Job No.: KE225090
Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 832.26 ft
North: 2011992.35 ft
East: 983494.59 ft
Station: 116+63.14
Offset: 43.52 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	832.0	3-inch thick, black SILTY LOAM --TOPSOIL--						
		Medium stiff to hard, black and brown SILTY CLAY to SILTY CLAY LOAM, trace gravel --FILL--			1	10 9 8	4.50 P	10
			5		2	4 4 3	4.50 P	25
	826.8	Medium stiff, black CLAY						
					3	2 2 1	0.98 B	30
		--%Gravel=0.3-- --%Sand=55.6-- --%Silt=34.5-- --%Clay=9.6--						
	823.3	Very loose, black and brown, fibrous ORGANIC SANDY LOAM	10		4	1 1 1	NP	124
	821.0	Medium dense, gray SANDY LOAM; wet			5	2 2 10	NP	16
	819.3	Medium dense, gray SANDY LOAM to GRAVELLY SAND, wet			6	5 7 8	NP	19
			15		7	5 8 11	NP	20
			20		8	7 7 6	NP	13
	797.5	Stiff to very stiff, gray to reddish gray, CLAY LOAM to SILTY CLAY LOAM, trace gravel						
		--%Gravel=35.0-- --%Sand=57.6-- --%Silt=6.4-- --%Clay=1.0--	25		9	6 7 11	NP	13
					10	11 10 9	NP	10
					11	6 8 10	NP	20
			30		12	14 11 10	NP	11
					13	5 6 5	NP	19
			35		14	6 7 11	1.72 B	11

GENERAL NOTES

Begin Drilling: 02-26-2015 Complete Drilling: 02-26-2015
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: K & K Logger: A. Happel Checked by: A. Hamad
Drilling Method: 3.25-inch IDA HSA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 13.00 ft
At Completion of Drilling: 18.00 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.

WANGENGINC 7907701.GPJ WANGENG.GDT 4/21/23

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME: pw:\\ihg-pwin01.a-e.transystcorp.com:transystcorp-pw1\Documents\Projects\CH401 - Chicago\P401130061\40.0000\44.0000\44.0800\Contract 2\Sheet Files\23 Structural Sheets\TSCISheets\SN 056-6406 - Miller Road over Woodis Creek- Tributary\056406-6293-026-BoringL

USER NAME = Mbeening	DESIGNED - IS	REVISED -	
	DRAWN - IS	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - TJA	REVISED -	
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 2
STRUCTURE NO. 056-6406
SHEET S4-26 OF S4-29 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	560
		CONTRACT NO. 61J93		
	ILLINOIS FED. AID PROJECT			

Wang Engineering
wangeng@wangeng.com
Telephone:
Fax:

BORING LOG MRC-03

WEI Job No.: KE225090
Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 832.26 ft
North: 2011992.35 ft
East: 983494.59 ft
Station: 116+63.14
Offset: 43.52 LT

Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Elevation (ft)	SOIL AND ROCK DESCRIPTION
45		15	7 8 10	3.94 B	14		
50		16	4 6 9	2.62 B	12		
55		17	7 10 15	2.46 B	12		
60		18	6 9 14	1.80 B	11	772.3	Boring terminated at 60.00 ft

GENERAL NOTES

Begin Drilling: 02-26-2015 Complete Drilling: 02-26-2015
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: K & K Logger: A. Happel Checked by: A. Hamad
Drilling Method: 3.25-inch IDA HSA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 13.00 ft
At Completion of Drilling: 18.00 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.

WANGENGINC 790701.GPJ WANGENG.GDT 4/21/23

Wang Engineering
wangeng@wangeng.com
Telephone:
Fax:

BORING LOG MRC-04

WEI Job No.: KE225090
Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 831.01 ft
North: 2011914.83 ft
East: 983494.93 ft
Station: 116+61.88
Offset: 33.99 RT

Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Elevation (ft)	SOIL AND ROCK DESCRIPTION
						830.0	12-inch thick ASPHALT --PAVEMENT--
		1	4 3 3	NP	10	829.4	Loose, brown SANDY LOAM, some gravel; moist --BASE COURSE--
5		2	1 3 2	NR		826.8	Loose, black, gray and brown LOAM to SILTY CLAY LOAM, trace to little gravel; moist --FILL-- Very soft to soft, black and gray CLAY to SILTY CLAY; moist --RDR 2--
		3	1 1 1	0.25 B	43		
10		4	1 1 1	0.16 B	48	820.5	
		5	0 1 0	0.25 P	94		Very soft, brown and gray SILTY CLAY LOAM to LOAM, trace gravel; moist --RDR 2--
15		6	0 0 1	NP	61	818.0	Very loose, gray SILTY LOAM to CLAY LOAM; saturated
		7	0 9 9	0.25 P	19	816.7	Very soft, gray SILTY CLAY to CLAY; moist to wet
20		8	9 8 8	NP	7	815.5 814.6	Very soft, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel; wet Medium dense, gray SANDY GRAVEL to GRAVELLY SAND; wet --RDR 2-3-- --rig chatter--
		9	9 12 9	NP	10	808.0	Medium dense, gray, fine to coarse SAND, some gravel; wet --RDR 2-3--
25		10	7 9 10	NP	12		
		11	9 7 8	NP	13		--rig chatter--
30		12	10 9 9	NP	14		
		13	9 5 7	NP	11		--rig chatter--
35		14	3 2 5	0.33 B	13	794.3	Soft, brown SILTY CLAY LOAM, little gravel; moist --RDR 2-3--
40							--rig chatter--

GENERAL NOTES

Begin Drilling: 09-23-2021 Complete Drilling: 09-23-2021
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: NC&KG Logger: M. Rojo Checked by: M. Snider
Drilling Method: 2.25-inch IDA HSA to 10' mud rotary after, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 13.00 ft
At Completion of Drilling: 14' Mud
Time After Drilling: NA
Depth to Water: NA

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

WANGENGINC 790701.GPJ WANGENG.GDT 4/21/23

Wang Engineering
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Fax:

BORING LOG MRC-04

WEI Job No.: KE225090
Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 831.01 ft
North: 2011914.83 ft
East: 983494.93 ft
Station: 116+61.88
O'fset: 33.99 RT

Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Elevation (ft)	SOIL AND ROCK DESCRIPTION
						789.3	Stiff to hard, brown SILTY CLAY LOAM, little gravel; damp to moist --RDR 2-3--
45		15	3 4 8	1.39 B	13		
							--rig chatter--
50		16	5 5 10	2.21 B	11		
							--rig chatter--
55		17	6 9 10	3.44 B	11		
							--rig chatter--
60		18	6 9 10	1.64 B	13	751.0	Boring terminated at 80.00 ft
65		19	7 12 10	3.44 B	11		--hard rig chatter--
							--rig chatter--
70		20	15 19 35	NR			
75		21	20 23 32	NR			
80		22	7 10 15	5.33 B	11		

GENERAL NOTES

Begin Drilling: 09-23-2021 Complete Drilling: 09-23-2021
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: NC&KG Logger: M. Rojo Checked by: M. Snider
Drilling Method: 2.25-inch IDA HSA to 10' mud rotary after, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 13.00 ft
At Completion of Drilling: 14' Mud
Time After Drilling: NA
Depth to Water: NA

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

WANGENGINC 790701.GPJ WANGENG.GDT 4/21/23

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USER NAME = Mlbeening	DESIGNED - IS	REVISED -	
	DRAWN - IS	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - TJA	REVISED -	
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 3
STRUCTURE NO. 056-6406
SHEET S4-27 OF S4-29 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	561
		CONTRACT NO. 61J93		
	ILLINOIS FED. AID PROJECT			

Wang Engineering

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Fax:

BORING LOG MRC-05

WEI Job No.: KE225090

Client: **TranSystems Corporation**
Project: **Randall Road Phase II Improvements**
Location: **McHenry County, IL**

Datum: NAVD88
Elevation: 831.86 ft
North: 2011962.78 ft
East: 983434.81 ft
Station: 116+02.77
Offset: 15.19 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	830.9	12-inch thick ASPHALT --PAVEMENT--						
	829.6	Medium dense, brown and gray, GRAVELLY SANDY LOAM, damp --FILL--			1	4 6 4	NP	4
		Stiff, black and brown SILTY CLAY LOAM, trace gravel; moist --FILL--	5		2	9 2 5	1.50 P	39
	826.4	Medium stiff, black SILTY CLAY to CLAY; moist --RDR 2--			3	1 2 2	0.57 B	49
	823.9	Very soft, black and brown SILTY CLAY, trace gravel; moist			4	2 1 1	0.16 B	44
	822.9	Brown and gray GRAVELLY SAND; saturated --RDR 2--	10					
	820.6	Gray SANDY LOAM, trace gravel; wet			5	1 1 1	0.16 B	29
		Very soft, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel; wet						
	818.0	Medium dense, gray SANDY LOAM, trace gravel; wet	15		6	2 4 6	NP	17
	816.4	Medium dense, gray, medium to coarse SAND, trace gravel; wet --RDR 2--			7	4 7 5	NP	18
	813.9	Very stiff, gray SILTY CLAY, interbedded fine sand seams, trace gravel; moist to wet --RDR 2--	20		8	2 3 17	2.00 P	15
	811.4	--rig chatter-- Medium dense, gray SANDY GRAVEL to GRAVELLY SAND; wet --RDR 2-3--			9	9 14 12	NP	10
		--rig chatter--	25		10	10 14 12	NP	8
		--rig chatter-- --lost drilling mud--			11	10 8 9	NP	7
		--hard rig chatter--	30		12	9 9 8	NP	7
	797.6	Very stiff to hard, brown SILTY CLAY LOAM to SILTY CLAY, trace to little gravel; damp --RDR 2--	35		13	7 5 9	NR	
			40		14	6 7 9	3.36 B	13

WANGENGINC 7907701.GPJ WANGENG.GDT 4/21/23

GENERAL NOTES

Begin Drilling: **09-21-2021** Complete Drilling: **09-21-2021**
Drilling Contractor: **Wang Testing Services** Drill Rig:
Driller: **NC&KG** Logger: **M. Rojo** Checked by: **M. Snider**
Drilling Method: **2.25-inch IDA HSA to 10' mud rotary after, auto hammer, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **10.50 ft**
At Completion of Drilling: **11' Mud**
Time After Drilling: **NA**
Depth to Water: **NA**

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

Wang Engineering

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Fax:

BORING LOG MRC-05

WEI Job No.: KE225090

Client: **TranSystems Corporation**
Project: **Randall Road Phase II Improvements**
Location: **McHenry County, IL**

Datum: NAVD88
Elevation: 831.86 ft
North: 2011962.78 ft
East: 983434.81 ft
Station: 116+02.77
Offset: 15.19 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	10 13 15	3.28 B	11
			50		16	8 12 15	5.74 B	11
		--lost drilling mud--	55		17	7 8 11	2.95 B	11
			60		18	8 10 18	3.00 P	13
	751.9	Boring terminated at 80.00 ft	65		19	8 13 14	5.17 B	11
		--very dense sandy loam--	70		20	11 12 14	4.43 B	12
			75		21	11 12 20	4.51 B	11
			80		22	10 40 47	6.56 B	10

WANGENGINC 7907701.GPJ WANGENG.GDT 4/21/23

GENERAL NOTES

Begin Drilling: **09-21-2021** Complete Drilling: **09-21-2021**
Drilling Contractor: **Wang Testing Services** Drill Rig:
Driller: **NC&KG** Logger: **M. Rojo** Checked by: **M. Snider**
Drilling Method: **2.25-inch IDA HSA to 10' mud rotary after, auto hammer, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **10.50 ft**
At Completion of Drilling: **11' Mud**
Time After Drilling: **NA**
Depth to Water: **NA**

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

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BORING LOG MRC-06

WEI Job No.: KE225090

Client: **TranSystems Corporation**
Project: **Randall Road Phase II Improvements**
Location: **McHenry County, IL**

Datum: NAVD88
Elevation: 832.49 ft
North: 2011977.35 ft
East: 983401.52 ft
Station: 115+69.79
Offset: 30.45 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	831.0	11-inch thick, dark brown SILTY CLAY; damp --TOPSOIL--						
		Very stiff, brown CLAY LOAM, trace gravel; damp --FILL--			1	6 4 3	3.00 P	10
	829.5	Stiff, black SILTY CLAY, trace gravel; damp to moist --FILL-- --RDR 2--	5		2	2 4 4	1.50 P	22
	825.7	Medium stiff, gray to brown SILTY CLAY to SILTY CLAY LOAM; moist			3	2 2 2	0.98 B	41
	823.7	--some organic matter-- Loose, gray SAND; wet --RDR 2--	10		4	3 3 5	NP	19
	822.0	Medium dense, gray LOAM, little to some gravel; saturated --RDR 2--			5	3 7 7	NP	16
			15		6	5 7 7	NP	18
					7	3 5 5	NP	12
			20		8	7 6 6	NP	12
	812.0	Medium dense, gray SANDY GRAVEL; saturated --RDR 3--			9	12 11 8	NP	7
	809.5	Medium dense, gray SILTY LOAM, some gravel; saturated --RDR 4--	25		10	25 17 9	NP	10
	807.0	Medium dense, gray LOAM, some gravel; saturated --RDR 2--			11	17 8 5	NP	10
			30		12	21 11 8	NP	5
	800.7	Stiff, pinkish gray SILTY CLAY, trace gravel; moist			13	6 5 4	1.39 B	10
	797.5	Boring terminated at 35.00 ft	35					
			40					

WANGENGINC 7907701.GPJ WANGENG.GDT 4/21/23

GENERAL NOTES

Begin Drilling: **04-26-2021** Complete Drilling: **04-26-2021**
Drilling Contractor: **Wang Testing Services** Drill Rig:
Driller: **J&M** Logger: **T. Rothschild** Checked by: **M. Snider**
Drilling Method: **3.25-inch IDA HSA to 27.5' mud rotary after, auto hammer, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **8.25 ft**
At Completion of Drilling: **10' Mud**
Time After Drilling: **NA**
Depth to Water: **NA**

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

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USER NAME = Mbeening	DESIGNED - IS	REVISED -	
	DRAWN - IS	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - TJA	REVISED -	
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 4
STRUCTURE NO. 056-6406

SHEET S4-28 OF S4-29 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	562
		CONTRACT NO. 61J93		
	ILLINOIS FED. AID PROJECT			

Wang Engineering
wangeng@wangeng.com
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Fax:

BORING LOG MRC-09

WEI Job No.: KE225090

Client: **TranSystems Corporation**
Project: **Randall Road Phase II Improvements**
Location: **McHenry County, IL**

Datum: NAVD88
Elevation: 834.36 ft
North: 2011972.96 ft
East: 983198.12 ft
Station: 113+66.34
Offset: 30.28 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (0in/6 in)	Qu (tsf)	Moisture Content (%)
	833.7	8-inch thick, dark brown SILTY CLAY; damp --TOPSOIL--						
		Stiff, dark brown and black SILTY CLAY, trace organic matter; damp --RDR 2--			1	3 4 4	1.50 P	14
	831.4							
		Stiff, dark brown and black CLAY LOAM; moist			2	3 3 3	1.56 B	19
	830.1							
		Loose to medium dense, brown LOAM, trace to little gravel; wet --RDR 2-3--	5		3	3 3 4	NP	16
					4	3 5 5	NP	15
			10					
	823.9							
		Loose, brown SILTY LOAM; saturated --RDR 2--			5	5 4 4	NP	20
	821.4							
		Medium dense, brown LOAM, trace to little gravel; saturated --RDR 2-3--			6	3 6 8	NP	15
			15		7	7 10 8	NP	14
	816.4							
		Medium dense, gray SANDY GRAVEL; saturated --RDR 3--			8	12 13 11	NP	2
			20					
	813.9							
		Stiff, gray SILTY CLAY, trace gravel; moist --RDR 2--			9	10 6 4	1.64 B	16
	811.4							
		Stiff to hard, pinkish gray SILTY CLAY, little gravel; damp to moist --RDR 2-3--			10	2 1 2	1.31 B	13
			25		11	4 6 10	4.43 B	13
					12	6 11 15	2.05 B	13
			30					
	799.4							
		Boring terminated at 35.00 ft	35		13	7 13 16	5.74 B	11
			40					

WANGENGINC 7507701.GPJ WANGENG.GDT 4/21/23

GENERAL NOTES

Begin Drilling: **04-26-2021** Complete Drilling: **04-26-2021**
Drilling Contractor: **Wang Testing Services** Drill Rig:
Driller: **J&M** Logger: **T. Rothschild** Checked by: **M. Snider**
Drilling Method: **3.25-inch IDA HSA, auto hammer, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **4.25 ft**
At Completion of Drilling: **16.00 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.

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
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USER NAME = MIbeening	DESIGNED - IS	REVISED -	
	DRAWN - IS	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - TJA	REVISED -	
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 5
STRUCTURE NO. 056-6406
SHEET S4-29 OF S4-29 SHEETS

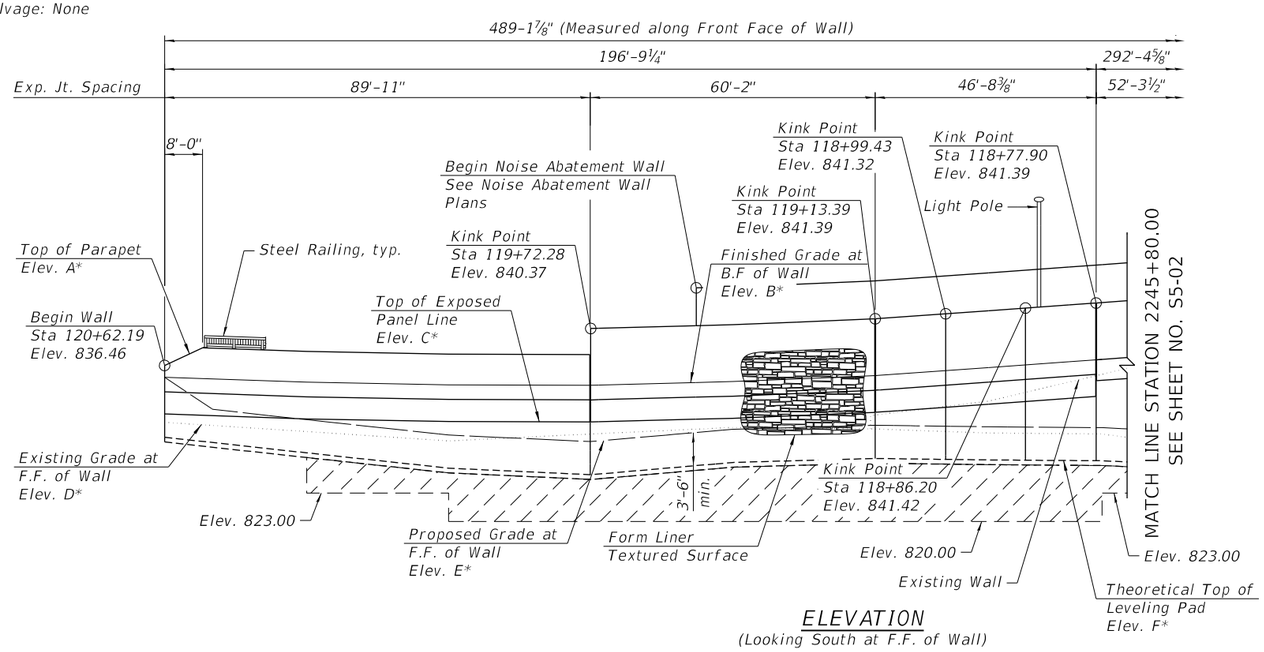
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	563
		CONTRACT NO. 61J93		
		ILLINOIS	FED. AID PROJECT	

Bench Mark: B.M. #11 Found Railroad Spike in Power Pole in the Southwest Quadrant of the Intersection of Randall Road & Miller Road. NAVD '88 Elevation 828.92

Existing Structure: Existing block retaining wall along the east side of Randall Road.

Traffic Control: Traffic to be maintained utilizing staged construction.

Salvage: None



ELEVATION
(Looking South at F.F. of Wall)

Notes:
1. Offsets are measured from the centerline of Miller Road to the front face of wall.
2. F.F. = Front Face
3. B.F. = Back Face
4. Wall to be built along straight chords between construction and expansion joints.

* For Elevations, See Table 1 on Sheet S5-03.

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

DESIGN STRESSES

FIELD UNITS

f'c = 4,000 psi
fy = 60,000 psi (Reinforcement)

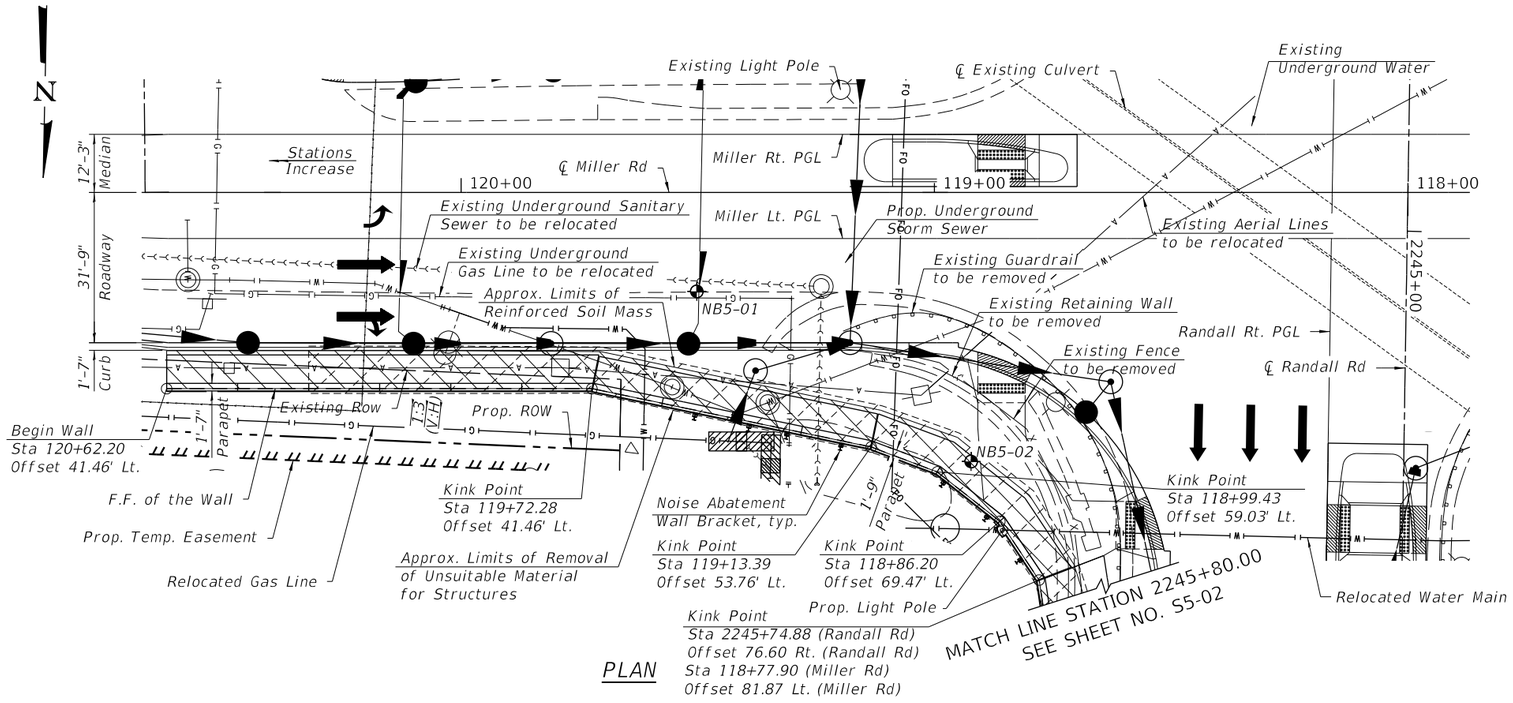
PRECAST UNITS

f'c = 4,500 psi

MATTHEW D. SANTEFORD
081-007244
LICENSED STRUCTURAL ENGINEER
OF
STATE OF ILLINOIS

MATTHEW D. SANTEFORD, P.E., S.E.
NO. 081-007244
EXP. DATE 11/30/2024

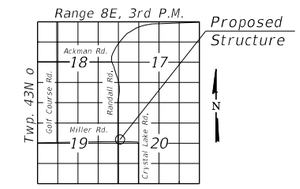
"I certify that to the best of my knowledge, information, and belief, this retaining wall design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with the requirements of the current 'AASHTO LRFD Bridge Design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



PLAN

LEGEND

- Ex. Aerial Lines
- Ex. Fence
- Ex. Gas Line
- Ex. Guardrail
- Ex. Underground Sanitary Sewer
- Ex. Underground Water
- Proposed Storm Sewer
- Ex. Catch Basin
- Ex. Manhole
- Limits of Reinforced Soil Mass
- Limits of Removal of Unsuitable Material for Structures. Backfill with Porous Granular Embankment.
- Proposed Catch Basin
- Proposed Inlet
- Proposed Manhole
- Soil Boring



LOCATION SKETCH

GENERAL PLAN AND ELEVATION - 1
RETAINING WALL 3
ALONG MILLER ROAD (F.A.U. RTE. 4039)
AND RANDALL ROAD (F.A.P. RTE. 336)
SECTION 06-00329-02-PW
MCHENRY COUNTY
STATION 118+77.89 TO 120+62.20 (MILLER)
STATION 2245+74.96 TO 2248+66.15 (RANDALL)
STRUCTURE NO. 056-W303

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

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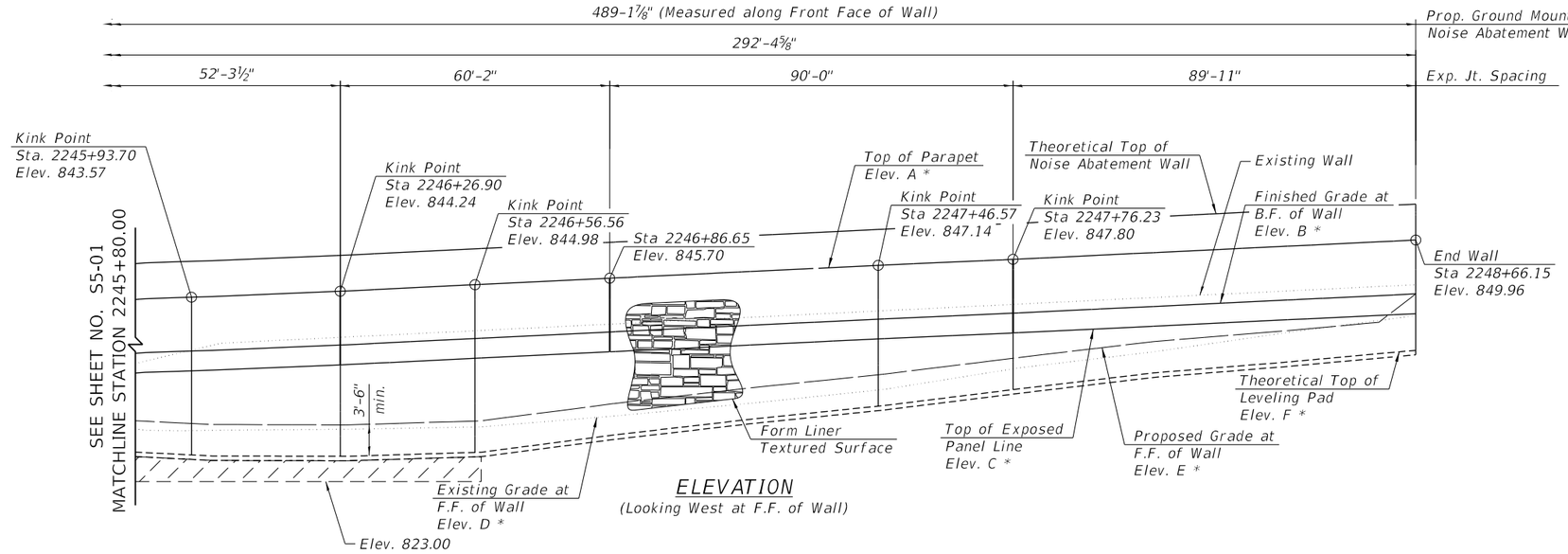
	DRAWN - IIP	REVISED -	
PLOT SCALE = 32.0000 ' / in.	CHECKED - MDS	REVISED -	
PLOT DATE = 6/12/2024	DATE - 6/12/2024	REVISED -	

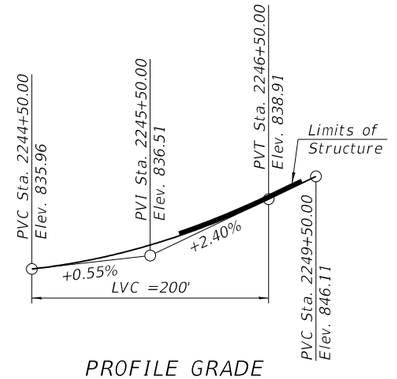
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION - 1
STRUCTURE NO. 056-W303
SHEET S5-01 OF S5-14 SHEETS

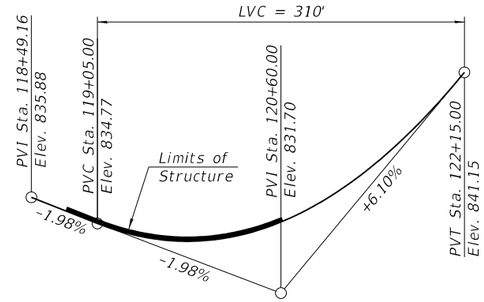
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	564
		CONTRACT NO. 61J93		
		ILLINOIS	FED. AID PROJECT	



ELEVATION
(Looking West at F.F. of Wall)



PROFILE GRADE
(Along Rt. PGL of Randall Rd.)



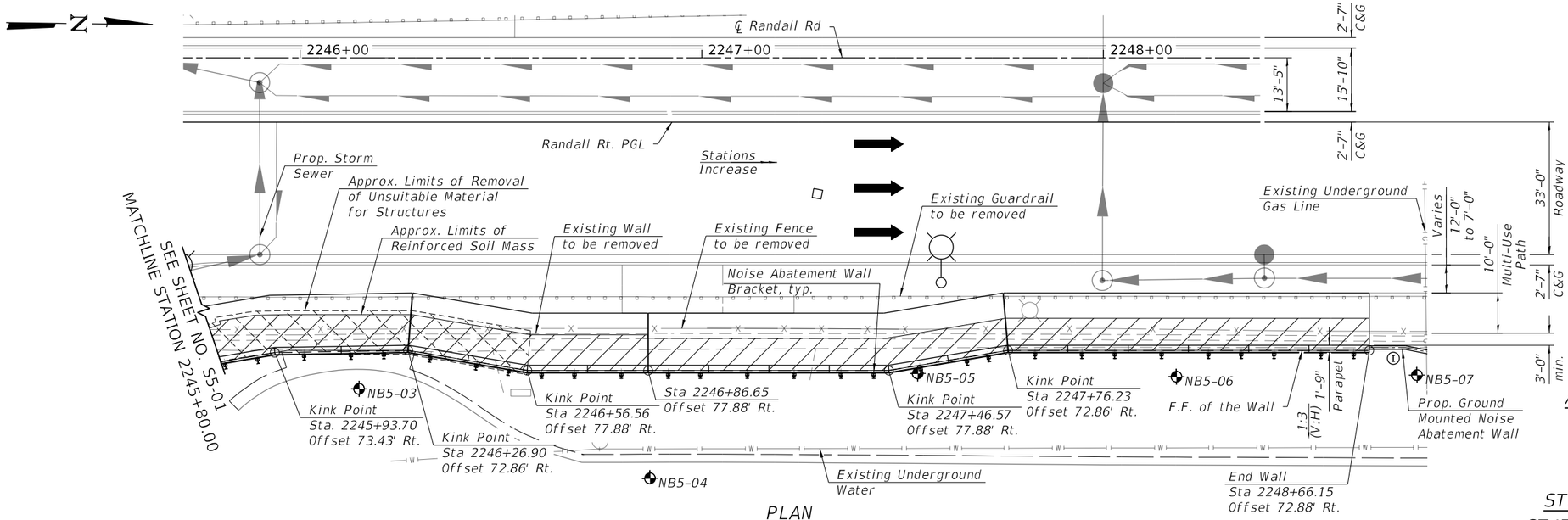
PROFILE GRADE
(Along Lt. PGL of Miller Rd.)

Notes:
1. *Offsets are measured from the centerline of Randall Road to the front face of wall.*
2. *F.F. = Front Face*
3. *B.F. = Back Face*
4. *Wall to be built along straight chords between construction and expansion joints.*

**For Elevations, See Table 1 on Sheet S5-03*

LEGEND

- Ex. Fence
- Ex. Gas Line
- Ex. Guardrail
- Ex. Underground Water
- Ex. Inlet
- Limits of Reinforced Soil Mass
- Limits of Removal of Unsuitable Material for Structures. Backfill with Porous Granular Embankment.
- Proposed Catch Basin
- Proposed Manhole
- Proposed Storm Sewer
- Soil Boring



PLAN

GENERAL PLAN AND ELEVATION – 2
RETAINING WALL 3
ALONG MILLER ROAD (F.A.U. RTE. 4039)
AND RANDALL ROAD (F.A.P. RTE. 336)
SECTION 06-00329-02-PW
MCHENRY COUNTY
STATION 118+77.89 TO 120+62.20 (MILLER)
STATION 2245+74.96 TO 2248+66.15 (RANDALL)
STRUCTURE NO. 056-W303

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

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USER NAME = Mbeening	DESIGNED - IIP	REVISED -	**STATE OF ILLINOIS**	**GENERAL PLAN AND ELEVATION - 2**
	DRAWN - IIP	REVISED -	**DEPARTMENT OF TRANSPORTATION**	**STRUCTURE NO. 056-W303**
PLOT SCALE = 32.0000 ' / in.	CHECKED - MDS	REVISED -		SHEET S5-02 OF S5-14 SHEETS
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -		

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	565
		CONTRACT NO. 61J93		
		ILLINOIS	FED. AID PROJECT	

GENERAL NOTES

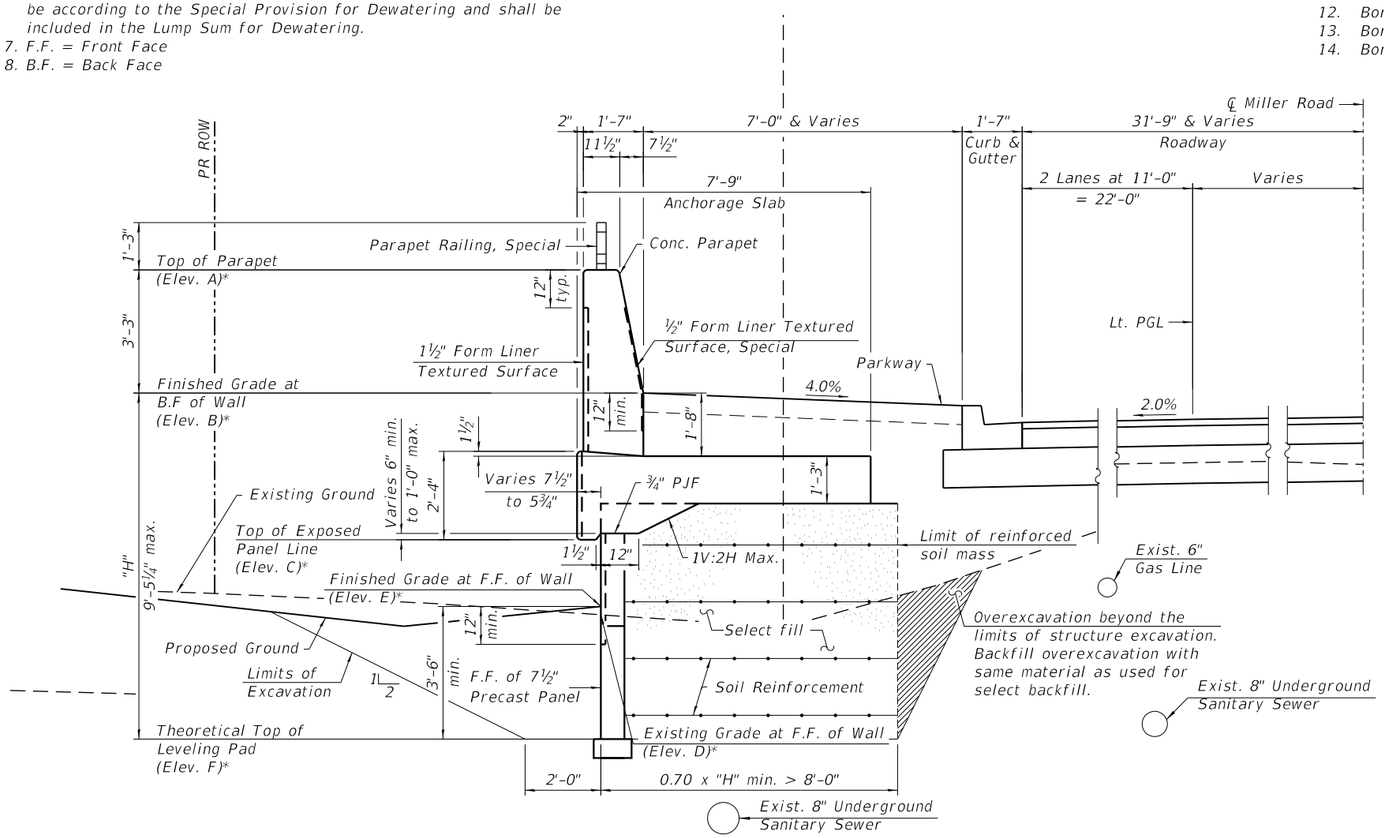
1. Reinforcement bars designated (E) shall be epoxy coated.
2. Form Liner Textured Surface, Special shall be insert into the face of the barrier on the traffic side up to ½" deep and 1" wide.
3. The MSE wall supplier's internal stablity design shall account for the moment slab's bearing pressure surcharge of 1.0 ksf and horizontal sliding force of 0.5 k/ft of wall.
4. Anti-Graffiti Coating shall be applied to all exposed faces of the parapet and the exposed area of the MSE wall panels.
5. Staining shall be applied to areas of Form Liner Textured Surface, Form Liner Textured Surface, Special, and the precast concrete panels of the MSE wall.
6. All dewatering necessary for the construction of this structure shall be according to the Special Provision for Dewatering and shall be included in the Lump Sum for Dewatering.
7. F.F. = Front Face
8. B.F. = Back Face

INDEX OF SHEETS

1. General Plan and Elevation 1
2. General Plan and Elevation 2
3. General Data 1
4. General Data 2
5. Anchorage Slab Plan and Elevation 1
6. Anchorage Slab Plan and Elevation 2
7. Anchorage Slab Plan and Elevation 3
8. Anchorage Slab Plan and Elevation 4
9. Anchorage Slab Plan and Elevation 5
10. Anchorage Slab Details
11. Parapet Railing, Special
12. Boring Logs 1
13. Boring Logs 2
14. Boring Logs 3

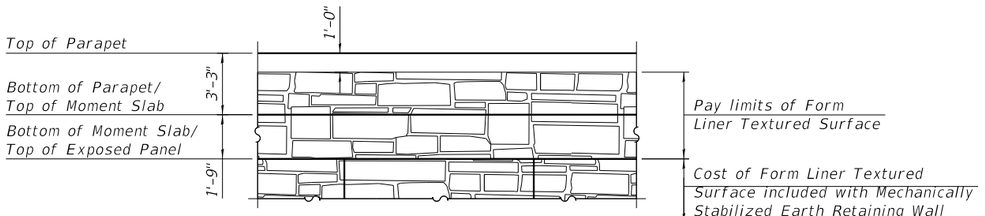
TOTAL BILL OF MATERIAL

Item	Unit	Total
Porous Granular Embankment	Cu. Yd.	570
Removal of Existing Structures No. 2	Each	1
Structure Excavation	Cu. Yd.	1,011
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	570
Concrete Superstructure	Cu. Yd.	454.6
Form Liner Textured Surface	Sq. Ft.	2,880
Protective Coat	Sq. Yd.	317
Reinforcement Bars, Epoxy Coated	Pound	77,330
Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	3,172
Noise Abatement Wall Anchor Rod Assembly	Each	37
Anti-Graffiti Coating	Sq. Ft.	8,372
Form Liner Textured Surface, Special	Sq. Ft.	2,352
Staining Concrete Structures	Sq. Ft.	8,404
Parapet Railing, Special	Foot	82



CROSS SECTION THRU MILLER ROAD

(Sta. 119+72.13 to 120+62.20)
(Looking East)

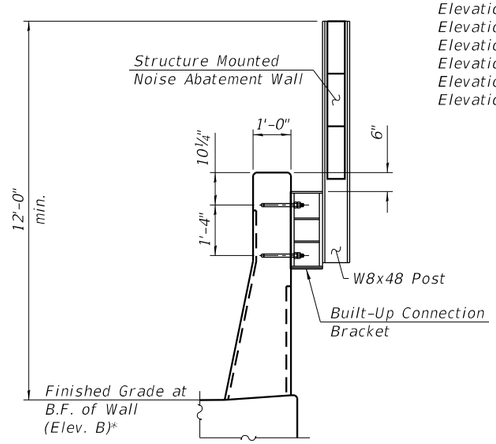


FORM LINER DETAIL

TABLE 1 - WALL ELEVATIONS

Station	Offset	Elev. A	Elev. B	Elev. C	Elev. D	Elev. E	Elev. F
120+62.19	41.46' Lt.	836.46	835.21	831.34	830.46	835.21	828.88
120+32.19	41.46' Lt.	837.95	834.70	830.82	829.49	830.74	827.24
120+02.19	41.46' Lt.	837.66	834.41	830.54	828.50	829.12	825.62
119+72.28	41.46' Lt.	837.62	834.37	830.49	829.22	828.38	824.88
119+72.28	41.46' Lt.	840.37	834.37	830.49	829.22	828.38	824.88
119+42.83	47.61' Lt.	840.76	834.76	830.89	829.91	829.79	826.29
119+13.39	53.76' Lt.	841.39	835.39	831.51	829.76	830.14	826.64
118+99.43	59.03' Lt.	841.32	835.32	831.44	829.26	830.04	826.54
118+86.20	69.47' Lt.	842.38	836.38	832.51	829.28	829.96	826.46
118+77.90	81.87' Lt.	842.66	836.66	832.79	829.23	829.90	826.40
2245+74.88	76.60' Rt.	842.66	836.66	834.45	829.23	829.88	826.38
2245+93.70	73.43' Rt.	843.57	837.57	835.36	828.71	829.42	825.92
2246+26.90	72.86' Rt.	844.24	838.24	836.03	828.82	829.31	825.81
2246+56.56	77.88' Rt.	844.98	838.98	836.77	829.09	829.78	826.28
2246+86.65	77.88' Rt.	845.70	839.70	837.49	830.32	831.70	828.20
2247+16.74	77.88' Rt.	846.42	840.42	838.21	831.72	833.43	829.93
2247+46.57	77.88' Rt.	847.14	841.14	838.93	833.27	834.99	831.49
2247+76.23	72.86' Rt.	847.80	841.80	839.59	835.67	836.82	833.32
2248+06.15	72.87' Rt.	848.52	842.52	840.31	837.45	838.57	835.07
2248+36.15	72.87' Rt.	849.24	843.24	841.03	839.61	839.79	836.29
2248+66.15	72.88' Rt.	849.96	843.96	841.75	841.59	843.96	837.65

Elevation A - Top of Parapet
Elevation B - Finished Grade at Back Face of Wall
Elevation C - Top of Exposed Panel Line
Elevation D - Existing Grade at Front Face of Wall
Elevation E - Proposed Grade at Front Face of Wall
Elevation F - Theoretical Top of Leveling Pad



SECTION THROUGH NOISE ABATEMENT WALL

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STATE OF ILLINOIS
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GENERAL DATA 1
STRUCTURE NO. 056-W303
SHEET S5-03 OF S5-14 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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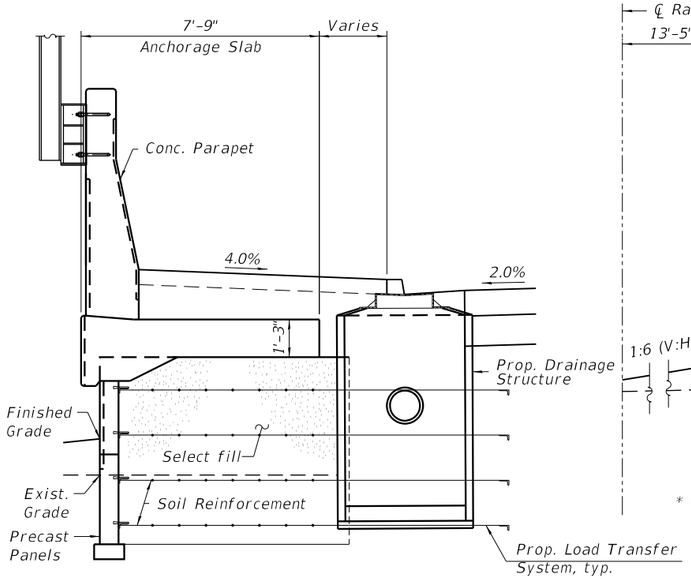
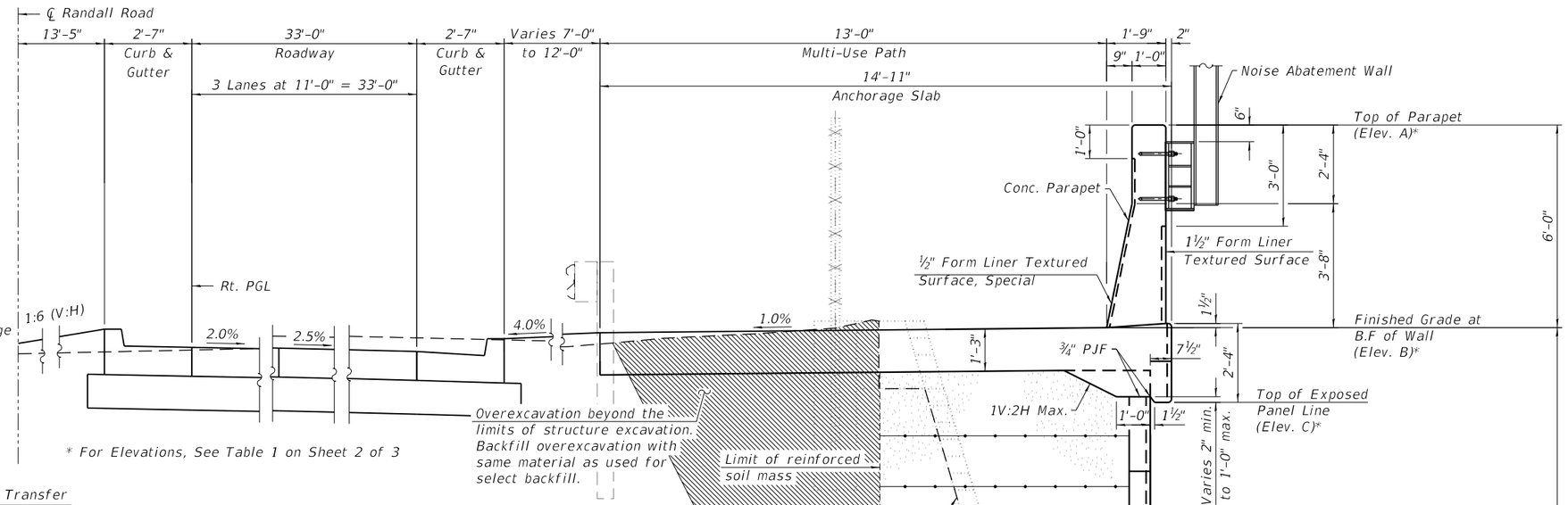
		CONTRACT NO. 61J93		
		ILLINOIS	FED. AID PROJECT	

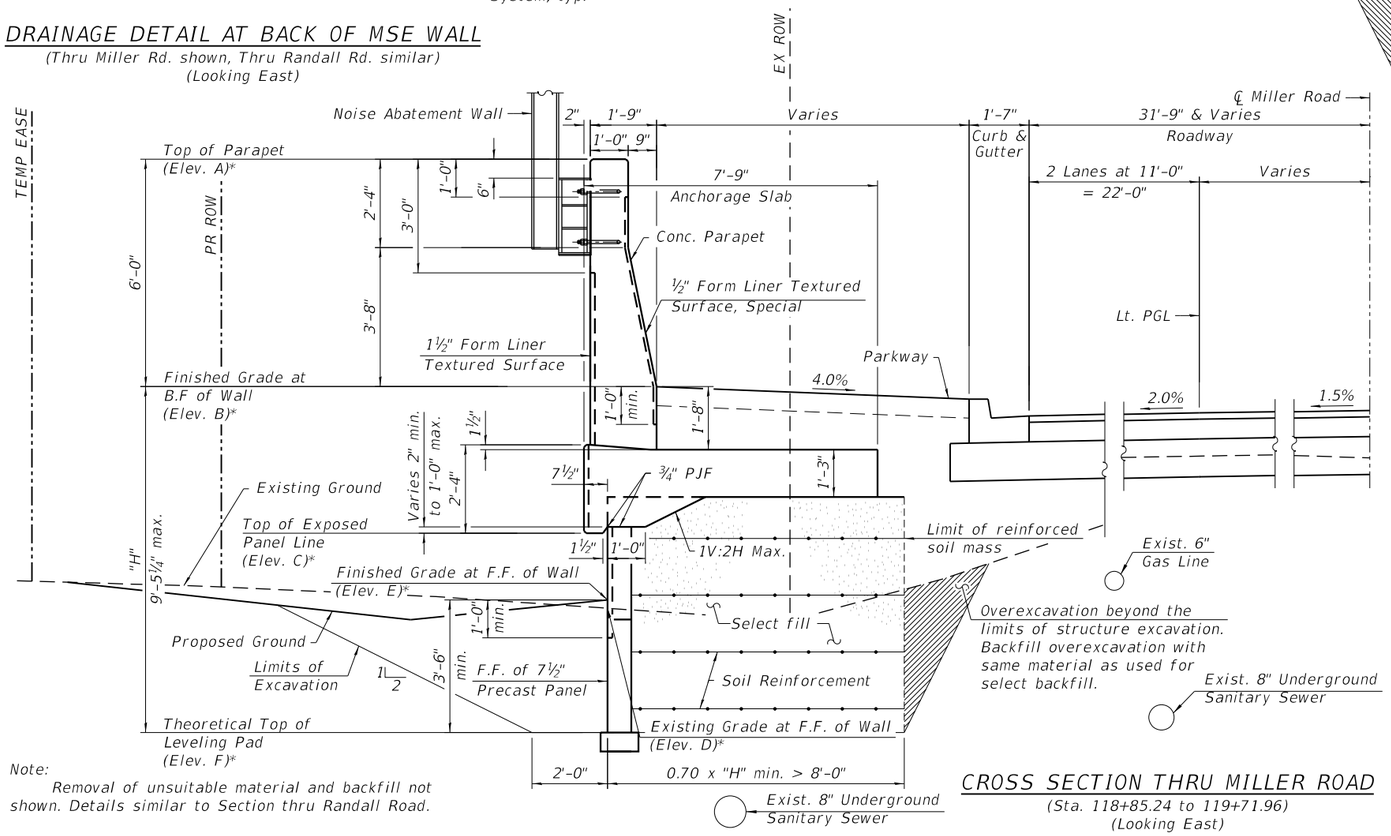




* For Elevations, See Table 1 on Sheet 2 of 3

DRAINAGE DETAIL AT BACK OF MSE WALL

(Thru Miller Rd. shown, Thru Randall Rd. similar)
(Looking East)



Note:
Removal of unsuitable material and backfill not shown. Details similar to Section thru Randall Road.

*For Elevations, See Table 1 on Sheet S5-03.

CROSS SECTION THRU MILLER ROAD

(Sta. 118+85.24 to 119+71.96)
(Looking East)

CROSS SECTION THRU RANDALL ROAD

(Sta. 2245+74.96 to 2248+66.15)
(Looking North)

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GENERAL DATA 2
STRUCTURE NO. 056-W303
SHEET S5-04 OF S5-14 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 61J93		
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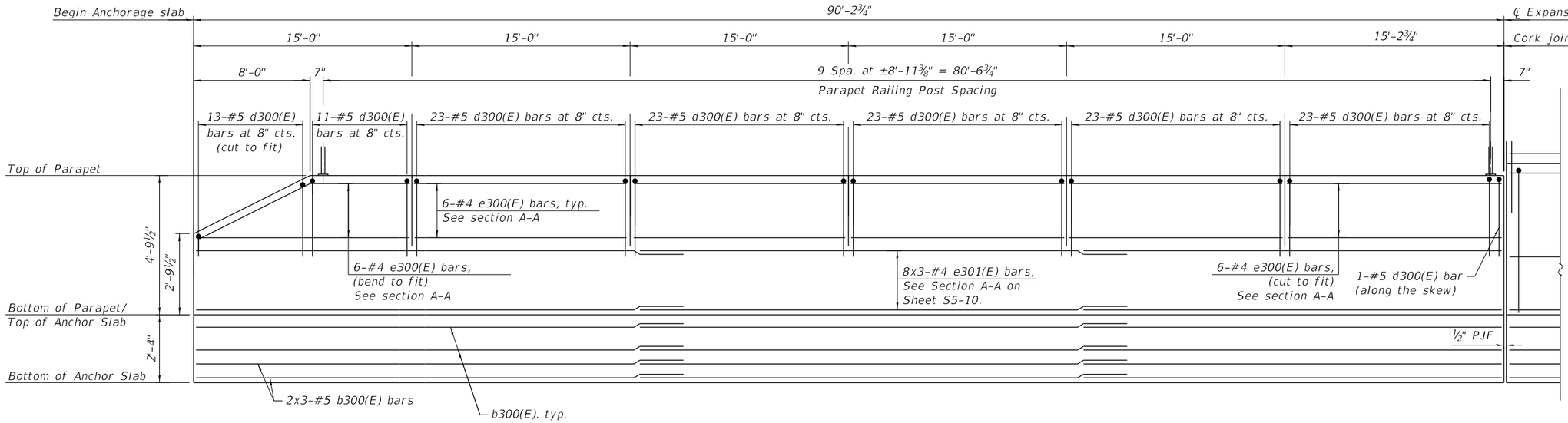
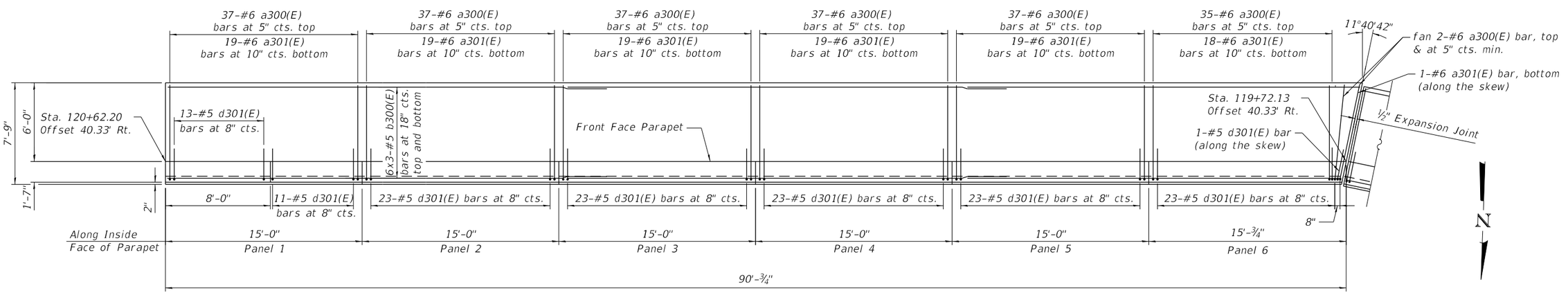


INSIDE ELEVATION

(Looking West)

MIN. BAR LAP

#4 bar = 2'-8"
#5 bar = 3'-4"



PLAN

NOTES:

1. Stations and Offsets are along the inside face of parapet.
2. For Section thru Moment Slab, see Sheet S5-10.

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STATE OF ILLINOIS
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ANCHORAGE SLAB PLAN AND ELEVATION 1
STRUCTURE NO. 056-W303
SHEET S5-05 OF S5-14 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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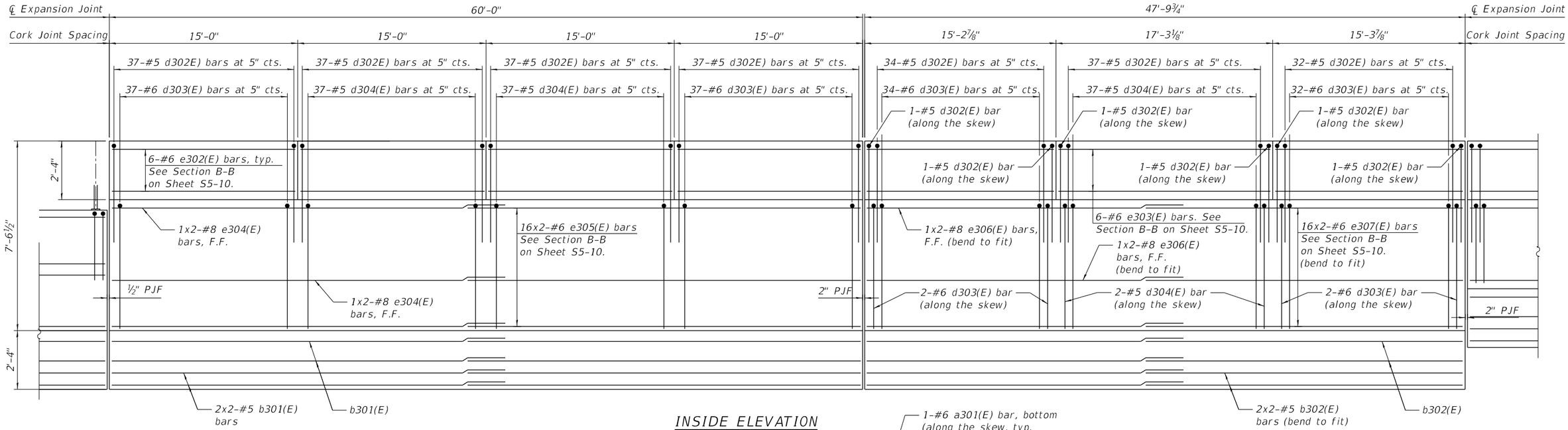
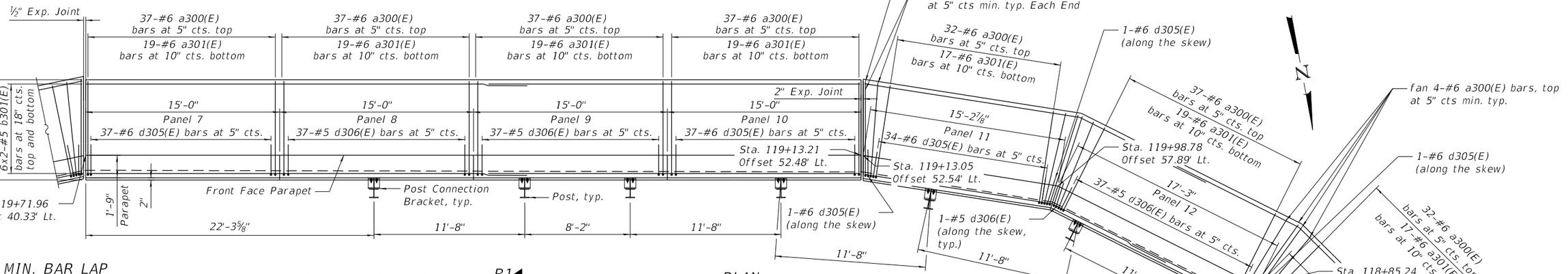
		CONTRACT NO. 61J93		
		ILLINOIS	FED. AID PROJECT	



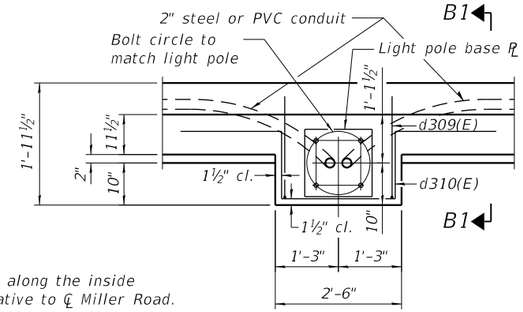
INSIDE ELEVATION

(Looking West)

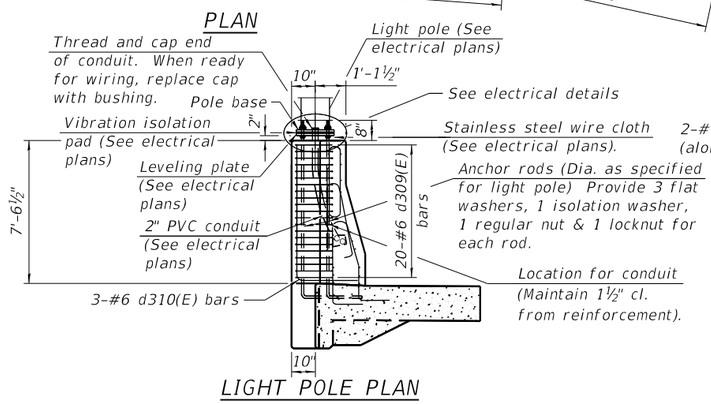


MIN. BAR LAP

#5 bar = 3'-4"
#6 bar = 4'-0"
#8 bar = 5'-4"



LIGHT POLE PLAN



LIGHT POLE PLAN

NOTES:

1. Stations and Offsets are along the inside face of parapet, and relative to ℄ Miller Road.
2. For Section thru Moment Slab, see Sheet S5-10.

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ANCHORAGE SLAB PLAN AND ELEVATION 2
STRUCTURE NO. 056-W303
SHEET S5-06 OF S5-14 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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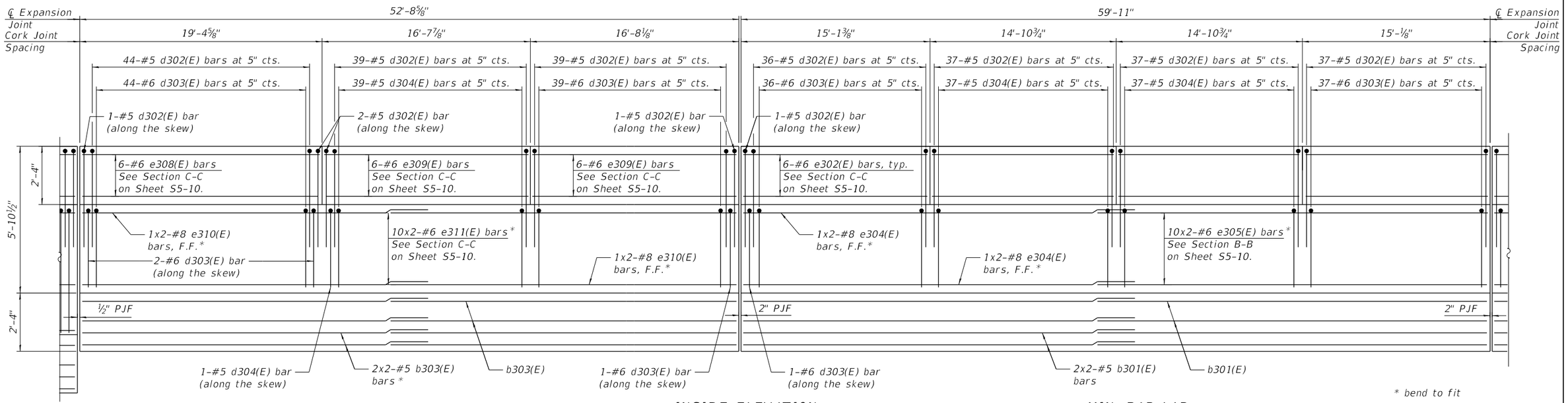
		CONTRACT NO. 61J93		
	ILLINOIS	FED. AID PROJECT		



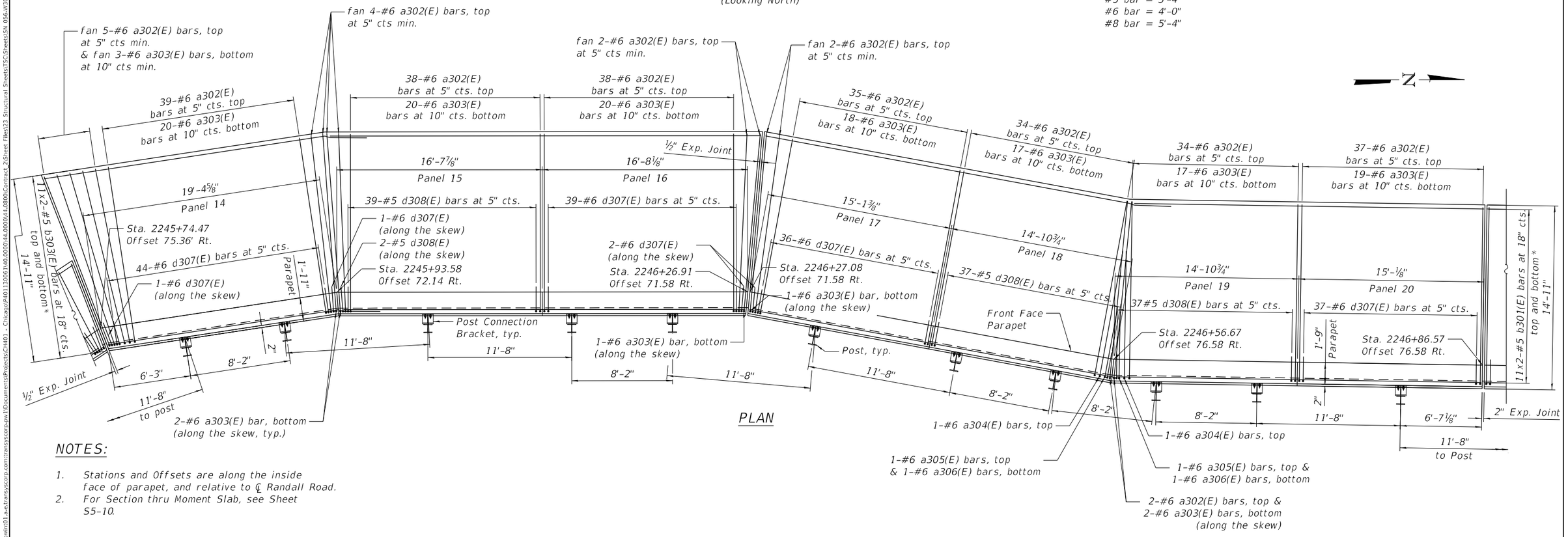
INSIDE ELEVATION

(Looking North)

* bend to fit

MIN. BAR LAP

#5 bar = 3'-4"
#6 bar = 4'-0"
#8 bar = 5'-4"



PLAN

NOTES:

1. Stations and Offsets are along the inside face of parapet, and relative to ℄ Randall Road.
2. For Section thru Moment Slab, see Sheet S5-10.

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ANCHORAGE SLAB PLAN AND ELEVATION 3
STRUCTURE NO. 056-W303
SHEET S5-07 OF S5-14 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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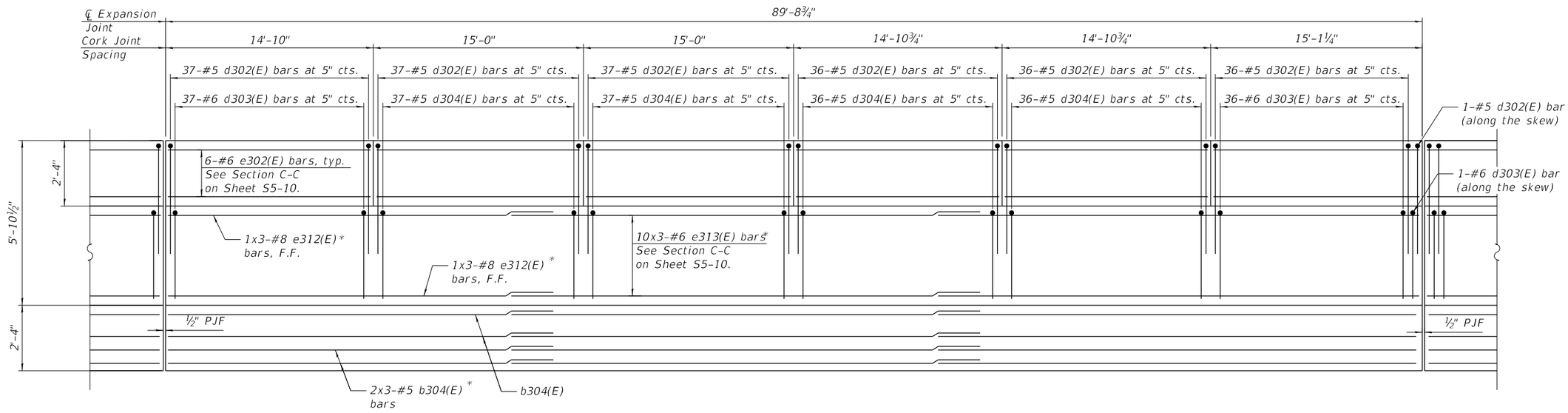
		CONTRACT NO. 61J93		
	ILLINOIS	FED. AID PROJECT		

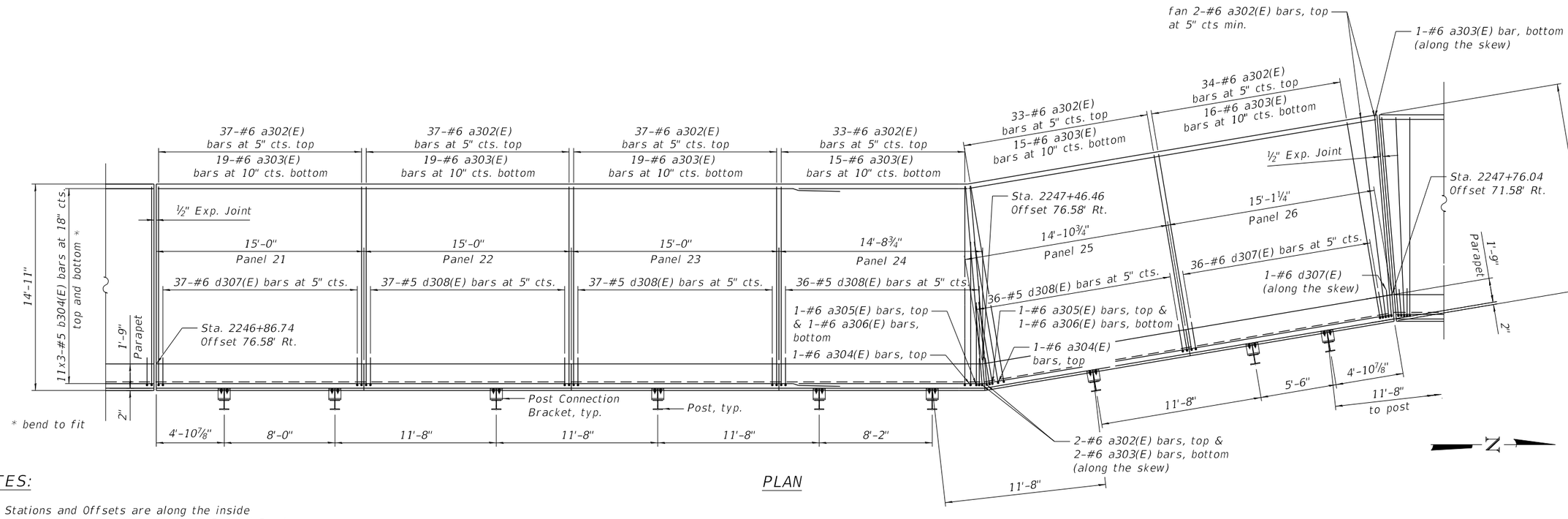


INSIDE ELEVATION

(Looking North)

MIN. BAR LAP

#5 bar = 3'-4"
#6 bar = 4'-0"
#8 bar = 5'-4"



PLAN

NOTES:

1. Stations and Offsets are along the inside face of parapet, and relative to ℄ Randall Road.
2. For Section thru Moment Slab, see Sheet S5-10.

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STATE OF ILLINOIS
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ANCHORAGE SLAB PLAN AND ELEVATION 4
STRUCTURE NO. 056-W303
SHEET S5-08 OF S5-14 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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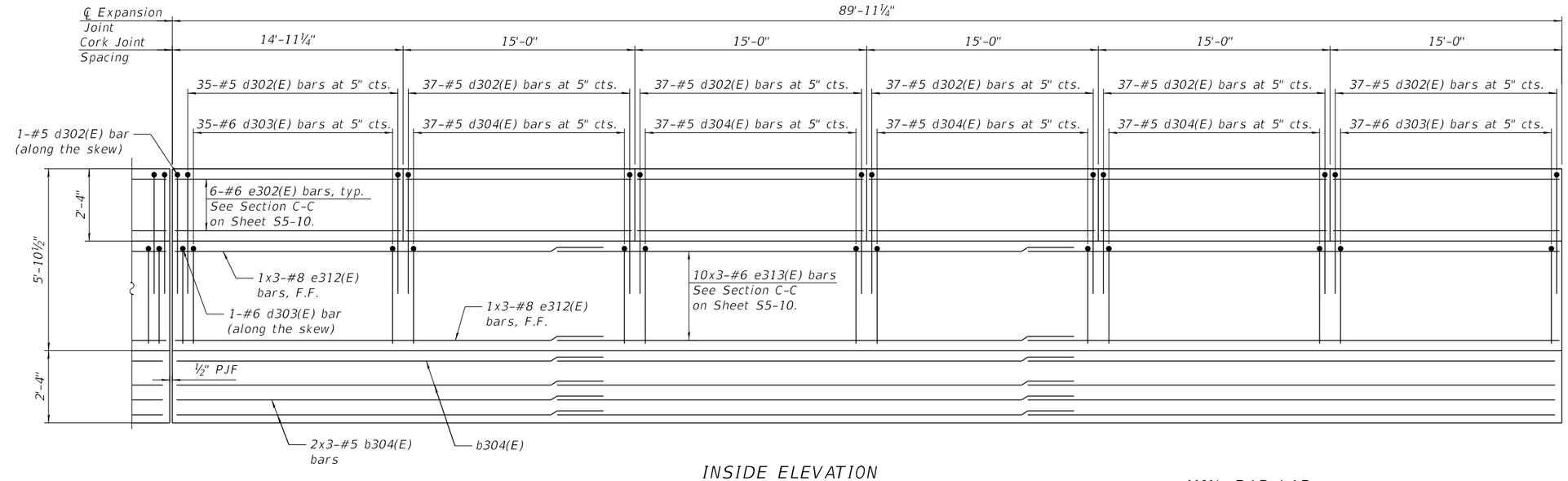
		CONTRACT NO. 61J93		
		ILLINOIS	FED. AID PROJECT	

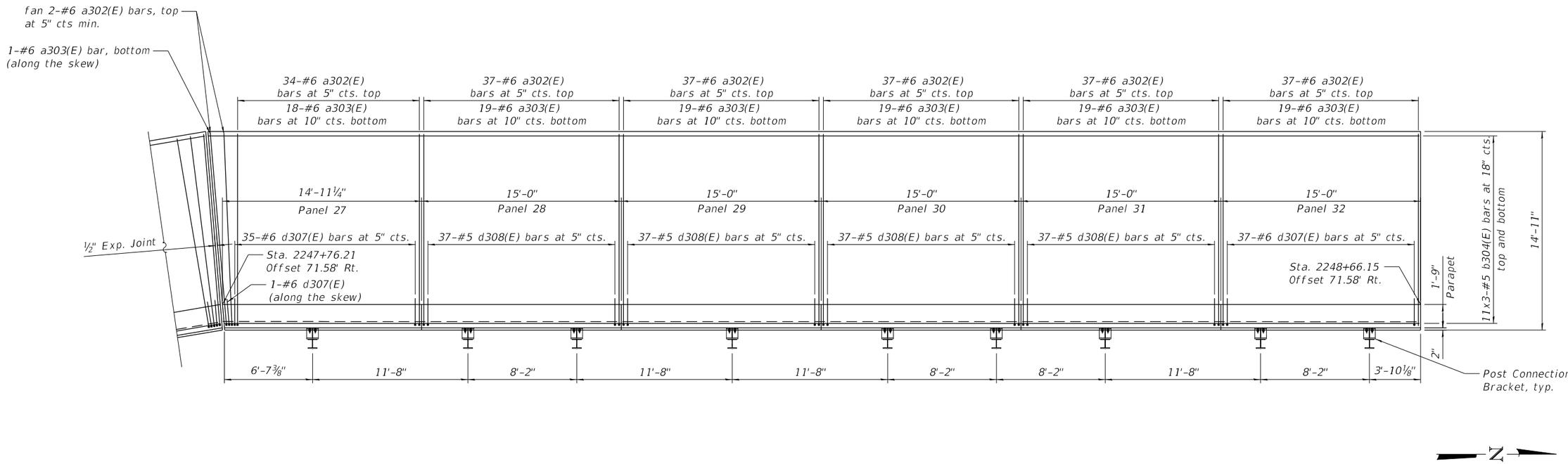


INSIDE ELEVATION

(Looking North)

MIN. BAR LAP

#5 bar = 3'-4"
#6 bar = 4'-0"
#8 bar = 5'-4"



PLAN

NOTES:

1. Stations and Offsets are along the inside face of parapet, and relative to ℄ Randall Road.
2. For Section thru Moment Slab, see Sheet S5-10.

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PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -	

ANCHORAGE SLAB PLAN AND ELEVATION 5
STRUCTURE NO. 056-W303
SHEET S5-09 OF S5-14 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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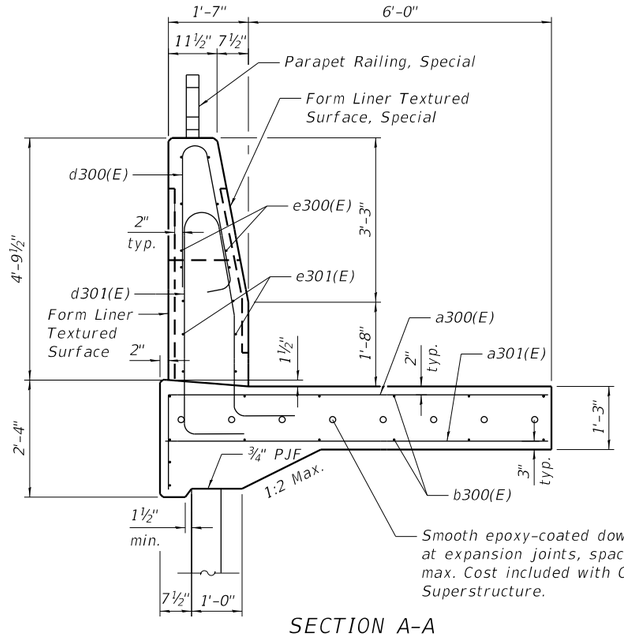
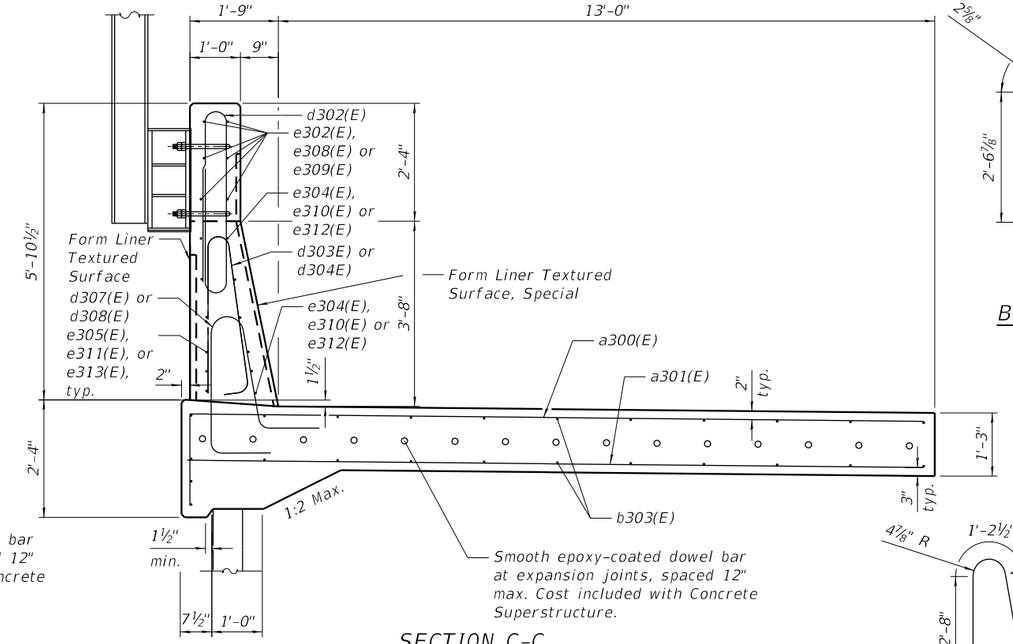
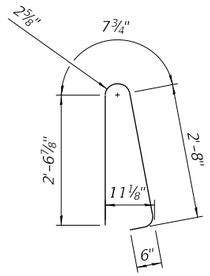
		CONTRACT NO. 61J93		
		ILLINOIS	FED. AID PROJECT	



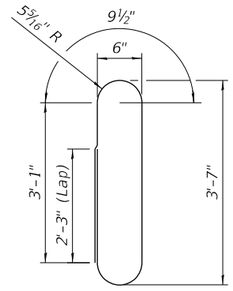
SECTION A-A



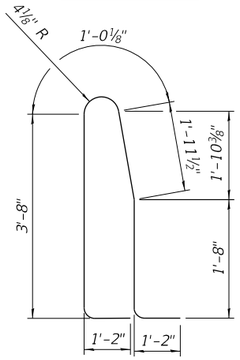
SECTION C-C



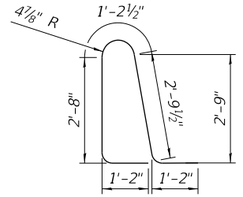
BAR d300(E)



BAR d302(E)



BAR d301(E)



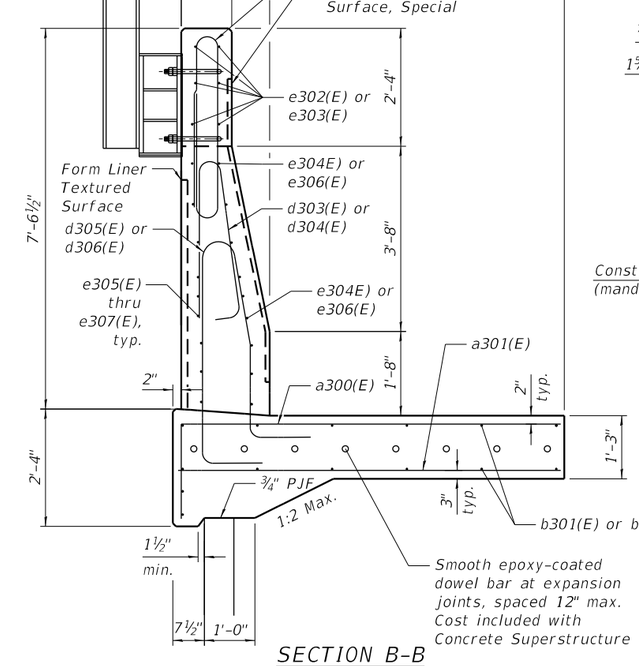
BAR d307(E) OR d308(E)

Back leg to extend 9½" into anchorage slab

BILL OF MATERIAL

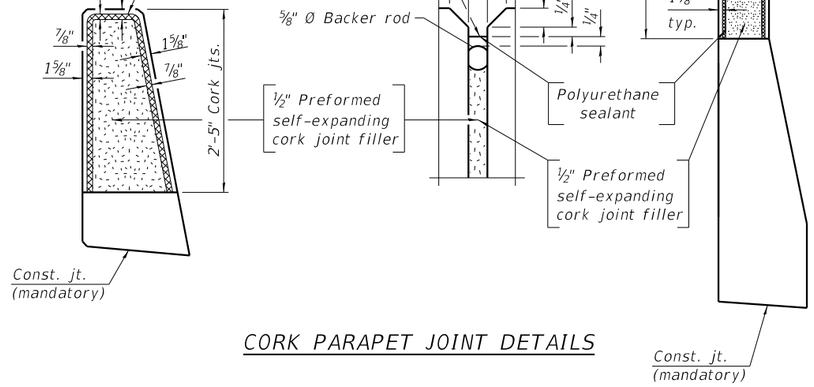
Bar	No.	Size	Length	Shape
a300(E)	479	#6	8'-3"	
a301(E)	249	#6	7'-5"	
a302(E)	706	#6	15'-5"	
a303(E)	360	#6	14'-7"	
a304(E)	4	#6	10'-9"	
a305(E)	4	#6	5'-10"	
a306(E)	4	#6	5'-0"	
b300(E)	24	#5	32'-2"	
b301(E)	42	#5	31'-6"	
b302(E)	16	#5	25'-5"	
b303(E)	26	#5	27'-11"	
b304(E)	78	#5	32'-2"	
d300(E)	139	#5	6'-5"	
d301(E)	139	#5	10'-8"	
d302(E)	972	#5	10'-0"	
d303(E)	451	#6	8'-7"	
d304(E)	521	#5	8'-1"	
d305(E)	144	#6	12'-4"	
d306(E)	113	#5	12'-4"	
d307(E)	307	#6	9'-0"	
d308(E)	408	#5	9'-0"	
d309(E)	20	#6	8'-11"	
d310(E)	3	#6	6'-6"	
e300(E)	36	#4	14'-8"	
e301(E)	24	#4	31'-9"	
e302(E)	132	#6	14'-7"	
e303(E)	6	#6	16'-11"	
e304(E)	8	#8	32'-6"	
e305(E)	52	#6	31'-10"	
e306(E)	4	#8	26'-5"	
e307(E)	32	#6	25'-9"	
e308(E)	6	#6	19'-0"	
e309(E)	12	#6	16'-3"	
e310(E)	4	#8	28'-10"	
e311(E)	20	#6	28'-3"	
e312(E)	12	#8	33'-6"	
e313(E)	60	#6	32'-7"	
Reinforcement Bars, Epoxy Coated		Pound	77,330	
Concrete Superstructure		Cu. Yds.	455	
Noise Abatement Wall Anchor Rod Assembly		Each	37	

Bars indicated thus 1 x 15-#5 etc. indicates 1 line of bars with 15 lengths per line.

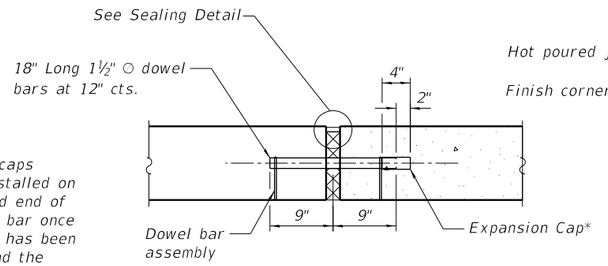


SECTION B-B

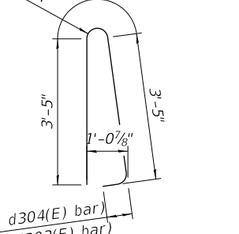
* Expansion caps shall be installed on the exposed end of each dowel bar once the header has been removed and the joint filler material has been installed.



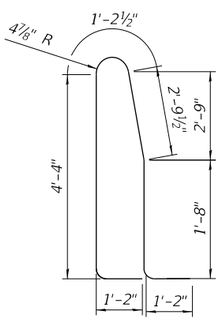
CORK PARAPET JOINT DETAILS



TRANSVERSE EXPANSION JOINT

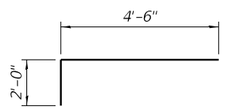


BAR d303(E) OR d304(E)

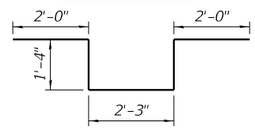


BAR d305(E) OR d306(E)

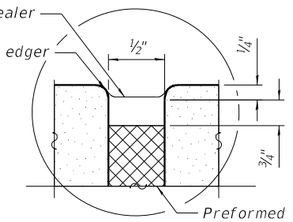
Back leg to extend 9½" into anchorage slab



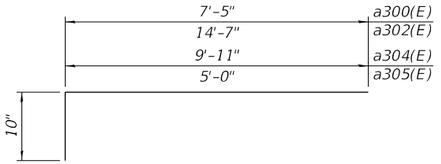
BAR d310(E)



BAR d309(E)



SEALING DETAIL



BAR a300(E), a302(E), a304(E) OR 305(E)

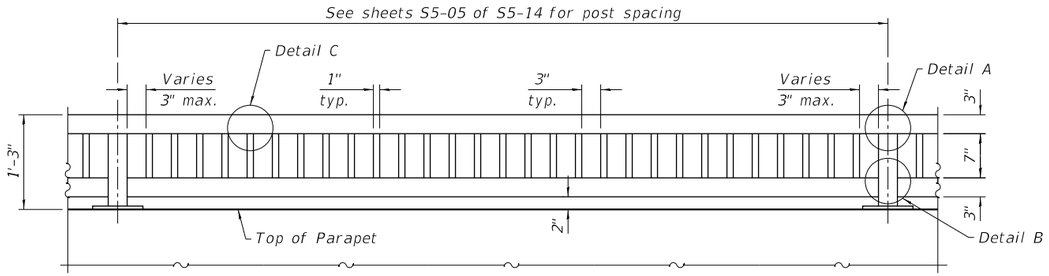
TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

USER NAME = Mlbeening	DESIGNED - IIP	REVISED -	
	DRAWN - IIP	REVISED -	
PLOT SCALE = 3.0000 ' / in.	CHECKED - MDS	REVISED -	
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -	

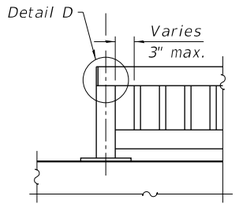
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ANCHORAGE SLAB DETAILS
STRUCURE NO. 056-W303
SHEET S5-10 OF S5-14 SHEETS

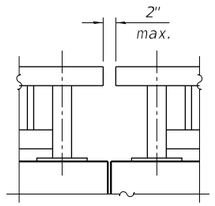
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	573
		CONTRACT NO. 61J93		
	ILLINOIS	FED. AID PROJECT		



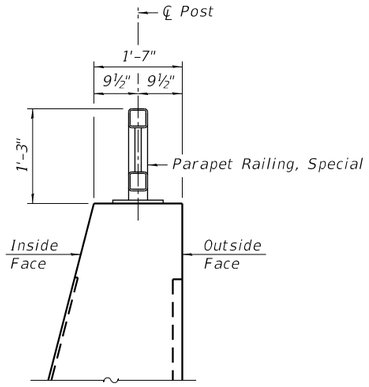
ELEVATION



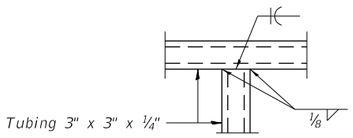
TERMINAL SECTION



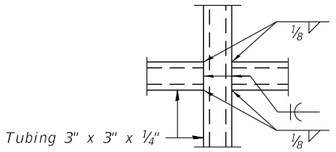
SECTION AT EXPANSION JOINT



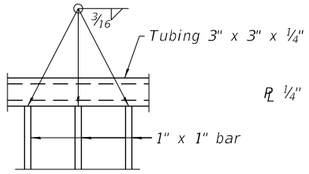
SECTION THRU RAILING



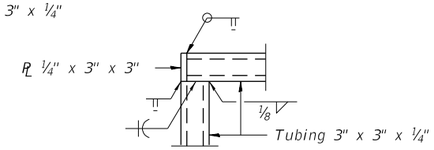
DETAIL A



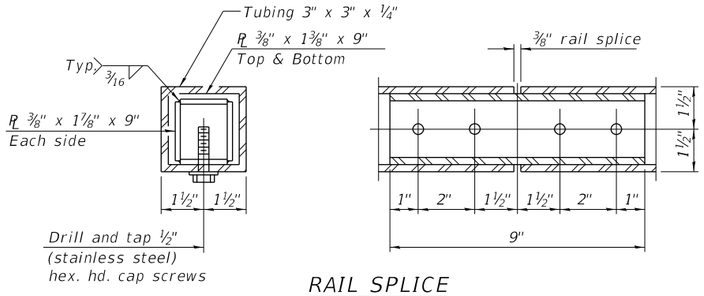
DETAIL B



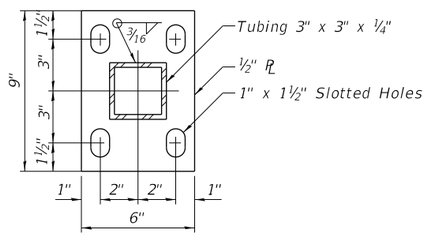
DETAIL C



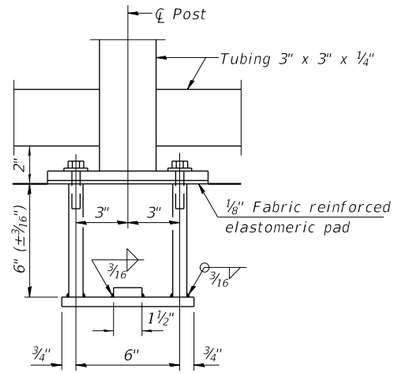
DETAIL D

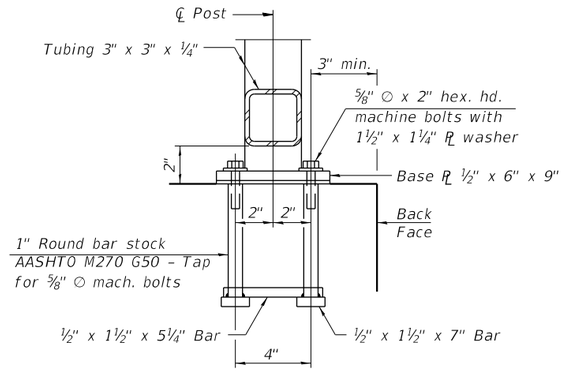


RAIL SPLICE



BASE PL





ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting ⅝" ∅ anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

Notes:
All post, railing, splices, anchor devices, and plates shall be powder coat the color Traffic Black (RAL 9017).

BILL OF MATERIAL

Item	Unit	Quantity
Parapet Railing, Special	Foot	82

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME: pw:\\tg-pwint01.a-ac.transystems.com:transystems-pw1\Documents\Projects\CH401 - Chicago\P401130061\140.00000\44.00000\44.02800\Contract 2\Sheet Files\23 Structural Sheets\TSC\Sheets\SN 056-W303 - Wall 3\056W303-623\93-011-RailDet.dgn

USER NAME = Mlbeening	DESIGNED - IIP	REVISED -	
	DRAWN - IIP	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - MDS	REVISED -	
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RAILING DETAILS
STRUCTURE NO. 056-W303
SHEET S5-11 OF S5-14 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	574
		CONTRACT NO. 61J93		
		ILLINOIS	FED. AID PROJECT	

Wang Engineering
wangeng@wangeng.com
Telephone:
Fax:

BORING LOG NB5-01

WEI Job No.: KE225090
Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 833.03 ft
North: 2011975.71 ft
East: 983782.06 ft
Station: 2245+15.07
Offset: 149.86 RT

Depth (ft)	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
0	832.5	7-inch thick, brown SILTY CLAY, little gravel; damp --TOPSOIL--					
		Medium stiff to very stiff, dark brown to dark greenish gray SILTY CLAY, little to some gravel; damp to moist --FILL-- --RDR 2--		1	10 9 8	2.25 P	9
5				2	5 8 10	0.75 P	11
	827.5	Soft to medium stiff, black, dark gray and dark greenish brown SILTY CLAY, trace to some organic matter; moist --RDR 1--		3	1 2 3	0.49 B	45
10				4	1 2 1	0.49 B	109
				5	2 1 1	0.74 B	109
	820.0	Very soft to soft, gray SILTY CLAY; moist to wet --RDR 1--		6	1 0 1	0.49 B	78
15				7	3 4 3	< 0.25 P	32
	816.7	Loose to dense, gray LOAM, little to some gravel; saturated --RDR 2-3--		8	5 5 6	NP	11
20				9	18 19 11	NP	9
25				10	7 8 10	NP	10
				11	14 5 4	NP	11
30				12	20 7 5	NP	8
35	798.0	Boring terminated at 35.00 ft		13	6 5 5	NP	11
40							

GENERAL NOTES

Begin Drilling: 04-23-2021 Complete Drilling: 04-23-2021
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: J&M Logger: T. Rothschild Checked by: M. Snider
Drilling Method: 3.25-inch IDA HSA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 16.50 ft
At Completion of Drilling: 18.00 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.

Wang Engineering
wangeng@wangeng.com
Telephone:
Fax:

BORING LOG NB5-02

WEI Job No.: KE225090
Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 829.39 ft
North: 2012010.43 ft
East: 983723.38 ft
Station: 2245+50.08
Offset: 91.35 RT

Depth (ft)	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
0		Stiff, black SILTY CLAY LOAM; damp --TOPSOIL--		1	2 2 2	1.75 P	30
	827.4	Stiff (1.00P), brown CLAY LOAM, little gravel; damp to moist --FILL-- --RDR 2--		2	2 0 1	0.50 P	105
5	825.6	Medium stiff, black SILTY CLAY LOAM; damp --BURIED TOPSOIL--		3	1 1 2	0.25 P	119
	823.9	Soft to medium stiff, brown and black ORGANIC SILT and PEAT; damp --RDR 2--		4	0 0 0	0.50 P	58
10	818.9	Medium dense, gray SANDY GRAVEL; saturated --RDR 2--		5	9 9 10	NP	24
	816.4	Loose to medium dense, gray, coarse SAND, little gravel; wet to saturated --RDR 2-3--		6	5 5 7	NP	12
15				7	3 4 6	NP	11
20				8	3 5 7	NP	11
25				9	7 9 5	NP	15
				10	3 5 5	NP	16
30				11	8 13 14	NP	16
				12	2 2 5	NP	13
35	794.4	Boring terminated at 35.00 ft		13	5 7 9	NP	16
40							

GENERAL NOTES

Begin Drilling: 04-05-2021 Complete Drilling: 04-05-2021
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: J&M Logger: M. Sadowski Checked by: M. Snider
Drilling Method: 3.25-inch IDA HSA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 10.50 ft
At Completion of Drilling: 19.00 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.

Wang Engineering
wangeng@wangeng.com
Telephone:
Fax:

BORING LOG NB5-03

WEI Job No.: KE225090
Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 829.25 ft
North: 2012074.98 ft
East: 983714.14 ft
Station: 2246+14.68
Offset: 82.43 RT

Depth (ft)	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
0		9-inch thick ASPHALT --PAVEMENT--					
	828.5	Brown and gray SANDY GRAVEL; dry to wet --FILL--		1	2 2 3	2.00 P	33
	828.0	Stiff to very stiff, black, organic SILTY CLAY; damp --RDR 2--		2	1 2 2	1.25 P	102
5	825.0	Brown and black PEAT; damp		3	2 3 3	0.75 P	16
	823.8	Medium stiff, gray CLAY LOAM; damp to moist --RDR 2--		4	4 5 7	NP	20
10	821.3	Medium dense, gray, medium to coarse SAND, some gravel; saturated --RDR 2--		5	3 5 6	NP	16
				6	6 7 6	NP	10
15				7	6 8 7	NP	10
	811.3	Medium stiff, gray CLAY LOAM, little gravel; damp		8	6 9 6	0.50 P	18
20				9	4 5 4	NP	9
25	808.8	Loose to medium dense, gray, medium to coarse SAND, some gravel; saturated --RDR 2--		10	8 8 9	NP	9
	803.8	Very stiff, gray CLAY LOAM, little gravel; damp to moist --RDR 3--		11	8 13 13	2.25 P	11
30	801.3	Very stiff, gray SILTY CLAY LOAM, little gravel; damp --RDR 3--		12	9 8 8	3.28 B	9
	797.0	Stiff, gray CLAY LOAM, little gravel; damp --RDR 2-3--		13	5 5 6	1.23 B	11
35	794.3	Boring terminated at 35.00 ft					
40							

GENERAL NOTES

Begin Drilling: 04-09-2021 Complete Drilling: 04-09-2021
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: J&A Logger: I. Nenn Checked by: M. Snider
Drilling Method: 3.25-inch IDA HSA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 8.00 ft
At Completion of Drilling: 7.00 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.

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME: pw:\\tsg-pwin01.a-e.transystems.com:transystems-pw1\Documents\Projects\CH401 - Chicago\P401130061\40.0000\44.0000\44.0800\Contract 2\Sheet Files\123 Structural Sheets\TSC\Sheets\SN_05S-W303 - Wall 3\05W3G3-62J93-012-BoringLog1.dgn

USER NAME = Mbeening	DESIGNED - IP	REVISED -	
	DRAWN - IP	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - TJA	REVISED -	
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 1
STRUCTURE NO. 056-W303
SHEET S5-12 OF S5-14 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	575
		CONTRACT NO. 61J93		
	ILLINOIS FED. AID PROJECT			

Wang Engineering
wangeng@wangeng.com
Telephone:
Fax:

BORING LOG NB5-04

WEI Job No.: KE225090

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 831.10 ft
North: 2012147.51 ft
East: 983736.07 ft
Station: 2246+87.11
Offset: 104.72 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	830.4	9-inch thick ASPHALT --PAVEMENT--						
	829.9	Brown and gray SANDY GRAVEL; moist to wet --FILL--			1	2 2 4	0.50 P	30
	828.1	Medium stiff, black, organic SILTY CLAY LOAM; damp						
		Very soft, brown CLAY LOAM, trace gravel; moist --RDR 2--	5		2	3 4 3	< 0.25 P	20
	825.6	Medium dense, brown, fine SAND; damp						
	824.6	Very stiff, gray SILTY CLAY LOAM, trace gravel; damp			3	5 7 8	3.50 P	15
	823.1	Loose to medium dense, gray, fine to coarse SAND; damp to wet --RDR 2--	10		4	5 6 6	NP	10
	819.4	Very stiff, gray CLAY LOAM, trace gravel; damp			5	4 3 3	2.50 P	11
	818.1	Hard, gray SILTY CLAY LOAM, trace gravel; damp --RDR 2--	15		6	4 6 6	5.08 B	11
	815.6	Medium stiff to stiff, gray CLAY LOAM, little gravel; damp --RDR 2--			7	3 2 3	0.82 B	12
			20		8	3 4 4	1.48 B	12
	810.6	Very stiff to hard, gray SILTY CLAY LOAM, trace to little gravel; damp --RDR 2-3--			9	5 9 9	3.94 B	11
			25		10	5 8 10	3.53 B	10
					11	7 8 10	5.58 B	11
		--slow hard drilling--	30		12	7 8 12	4.92 B	10
	796.1	Boring terminated at 35.00 ft	35		13	6 8 10	5.08 B	11
			40					

GENERAL NOTES

Begin Drilling: 04-09-2021 Complete Drilling: 04-09-2021
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: J&A Logger: I. Nenn Checked by: M. Snider
Drilling Method: 3.25-inch IDA HSA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 10.00 ft
At Completion of Drilling: DRY
Time After Drilling: NA
Depth to Water: NA

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

Wang Engineering
wangeng@wangeng.com
Telephone:
Fax:

BORING LOG NB5-05

WEI Job No.: KE225090

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 833.58 ft
North: 2012214.03 ft
East: 983709.65 ft
Station: 2247+53.75
Offset: 78.62 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	832.3	15-inch thick, stiff (1.25P), black SILTY CLAY LOAM; damp --TOPSOIL--						
		Medium dense, brown and gray, medium to coarse SAND, little to some gravel; damp to moist --FILL-- --RDR 2--			1	6 7 7	NP	6
	829.6	Very stiff, brown to gray CLAY LOAM, trace gravel; damp --FILL-- --RDR 2--	5		2	2 6 11	2.75 P	16
	828.1	Stiff to hard, gray SILTY CLAY LOAM, trace to little gravel; damp --RDR 2-3--			3	2 3 4	1.07 B	12
			10		4	3 5 7	2.05 B	12
					5	4 4 6	1.00 P	13
			15		6	4 6 7	2.13 B	11
					7	4 7 9	2.05 B	11
			20		8	5 6 9	4.10 B	12
		--slow drilling--			9	7 7 8	4.02 B	10
		--slow drilling--	25		10	6 6 8	3.69 B	12
		--water added to help drilling--			11	6 7 8	4.10 B	12
			30		12	5 6 11	5.74 B	11
	798.6	Boring terminated at 35.00 ft	35		13	7 11 14	5.00 B	11
			40					

GENERAL NOTES

Begin Drilling: 04-09-2021 Complete Drilling: 04-09-2021
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: J&A Logger: I. Nenn Checked by: M. Snider
Drilling Method: 3.25-inch IDA HSA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: DRY
At Completion of Drilling: DRY
Time After Drilling: NA
Depth to Water: NA

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

Wang Engineering
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BORING LOG NB5-06

WEI Job No.: KE225090

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 837.32 ft
North: 2012278.43 ft
East: 983710.12 ft
Station: 2248+18.14
Offset: 79.41 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	836.1	15-inch thick, black SILTY CLAY LOAM; damp --TOPSOIL--						
		Very stiff, brown and gray CLAY LOAM, some gravel; damp --FILL-- --RDR 2--			1	4 6 7	2.75 P	20
	834.3	Medium stiff to very stiff, brown to gray SILTY CLAY LOAM, trace to little gravel; damp --RDR 2--	5		2	5 6 7	1.72 B	10
					3	3 3 4	0.75 P	12
			10		4	4 5 7	2.13 B	11
	826.8	Medium dense, gray, medium to coarse SAND; wet to saturated --RDR 2--			5	8 11 16	NP	7
	823.3	Very stiff to hard, gray SILTY CLAY LOAM, trace to some gravel; damp --RDR 2-3--	15		6	7 7 6	2.30 B	11
					7	8 9 13	2.87 B	11
			20		8	5 9 9	4.26 B	11
					9	6 8 13	4.59 B	9
			25		10	5 6 11	3.85 B	10
					11	8 10 10	2.38 B	11
			30		12	7 10 15	6.23 B	10
	802.3	Boring terminated at 35.00 ft	35		13	8 10 15	5.33 B	9
			40					

GENERAL NOTES

Begin Drilling: 04-12-2021 Complete Drilling: 04-12-2021
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: J&M Logger: M. Sadowski Checked by: M. Snider
Drilling Method: 3.25-inch IDA HSA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

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

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

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(847) 605-9600

FILE NAME: pw:\\hq-pwint01.a-e.transystems.com:transystems\projlib\Documents\Projects\CH401 - Chicago\P401130061\40.0000\44.0000\44.0800\Contract 2\Sheet Files\23 Structural Sheets\TSC\Sheets\SN_056-W303 - Wall 3\056W303-62J93-013-BoringLog2.dgn

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	DRAWN - IP	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - TJA	REVISED -	
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 2
STRUCTURE NO. 056-W303
SHEET S5-13 OF S5-14 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	576
		CONTRACT NO. 61J93		
	ILLINOIS	FED. AID PROJECT		

Page 1 of 1

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BORING LOG NB5-07

WEI Job No.: KE225090

Client: **TranSystems Corporation**
Project: **Randall Road Phase II Improvements**
Location: **McHenry County, IL**

Datum: NAVD88
Elevation: 841.53 ft
North: 2012338.30 ft
East: 983709.42 ft
Station: 2248+78.02
Offset: 79.01 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (0tw/6 in)	Qu (tsf)	Moisture Content (%)
	840.5	12-inch thick, black SILTY CLAY LOAM; damp						
		--TOPSOIL--						
		Soft to stiff, brown and gray CLAY LOAM, little to some gravel; damp to moist			1	3 3 3	1.25 P	12
		--FILL--						
		--RDR 2-3--			2	3 4 5	0.25 P	14
	836.0	Very stiff to hard, gray SILTY CLAY LOAM, little to some gravel; damp	5		3	8 8 8	2.13 B	10
		--RDR 2-3--						
		--rig chatter; possible cobbles--			4	5 6 8	3.69 B	9
			10		5	5 6 9	4.35 B	10
		--rig chatter; possible cobbles--			6	6 6 8	4.10 B	12
	826.0	Medium stiff to stiff, gray SILTY CLAY LOAM, trace to little gravel; damp	15		7	4 5 6	0.98 B	12
		--RDR 2-4--						
		--added water to help with drilling--			8	4 5 8	1.72 B	13
			20					
	821.0	Very stiff to hard, gray SILTY CLAY LOAM, trace to little gravel; damp						
		--RDR 2-3--			9	7 7 9	2.87 B	11
			25		10	5 7 12	5.49 B	10
			30		11	8 9 12	5.33 B	10
					12	8 12 15	4.92 B	13
	806.5	Boring terminated at 35.00 ft	35		13	9 10 11	5.00 B	11
			40					

GENERAL NOTES

Begin Drilling: **04-12-2021** Complete Drilling: **04-12-2021**
Drilling Contractor: **Wang Testing Services** Drill Rig:
Driller: **J&M** Logger: **M. Sadowski** Checked by: **M. Snider**
Drilling Method: **3.25-inch IDA HSA, auto hammer, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: ▽ **DRY**
At Completion of Drilling: ▼ **DRY**
Time After Drilling: **NA**
Depth to Water: ▼ **NA**

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

WANGENGINC 790701.GPJ WANGENG.GDT 5/19/23

Page 1 of 1

Wang Engineering

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Telephone:
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BORING LOG NB5-08

WEI Job No.: KE225090

Client: **TranSystems Corporation**
Project: **Randall Road Phase II Improvements**
Location: **McHenry County, IL**

Datum: NAVD88
Elevation: 833.37 ft
North: 2011961.31 ft
East: 983876.86 ft
Station: 120+44.69
Offset: 4.5490 Lt

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (0tw/6 in)	Qu (tsf)	Moisture Content (%)
	832.3	13-inch thick ASPHALT --PAVEMENT--						
		Dense, brown SANDY GRAVEL; damp --AGGREGATE BASE--			1	10 20 18	NP	4
	830.4	Medium dense, brown and black LOAM, trace gravel and organic matter; damp			2	14 8 4	NP	11
		--FILL--	5					
		--RDR 2--			3	3 2 3	0.75 P	104
	827.9	Medium stiff, black ORGANIC SILT and PEAT; moist						
		--RDR 2--			4	0 2 6	0.50 P	53
	824.6	Loose, gray SANDY LOAM, trace gravel; moist	10					
	823.8	Black PEAT; moist			5	5 3 4	NP	19
	822.9	Loose to very dense, gray SAND, trace to little gravel; saturated						
		--RDR 2--	15		6	5 5 8	NP	17
		--heaving sand--			7	4 5 4	NP	18
		--2-inch thick silty clay lens; damp--	20		8	5 6 6	NP	15
	796.6	Medium dense, gray SANDY GRAVEL; saturated						
		--RDR 2--	25		9	4 5 6	NP	19
					10	4 6 6	NP	15
			30		11	4 3 5	NP	18
					12	9 15 42	NP	14
	793.4	Boring terminated at 40.00 ft	35		13	25 23 18	NP	19
			40		14	3 6 5	NP	9

GENERAL NOTES

Begin Drilling: **02-23-2023** Complete Drilling: **02-23-2023**
Drilling Contractor: **Wang Testing Services** Drill Rig:
Driller: **RR&GT** Logger: **D. Morken** Checked by: **M. Snider**
Drilling Method: **2.25-inch IDA HSA, auto hammer, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: ▽ **11.00 ft**
At Completion of Drilling: ▼ **20.00 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.

WANGENGINC 790701.GPJ WANGENG.GDT 5/19/23

Page 1 of 1

Wang Engineering

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Telephone:
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BORING LOG NB5-09

WEI Job No.: KE225090

Client: **TranSystems Corporation**
Project: **Randall Road Phase II Improvements**
Location: **McHenry County, IL**

Datum: NAVD88
Elevation: 836.32 ft
North: 2011963.05 ft
East: 983963.31 ft
Station: 121+31.16
Offset: 4.4944 Lt

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (0tw/6 in)	Qu (tsf)	Moisture Content (%)
	835.3	12-inch thick ASPHALT --PAVEMENT--						
		Medium dense, brown and gray SANDY GRAVEL; damp --AGGREGATE BASE--			1	9 15 11	NP	7
	833.3	Medium stiff, brown CLAY LOAM, trace gravel; damp						
		--FILL--			2	2 1 2	0.74 B	18
		--RDR 2--	5					
	830.8	Loose, brown SAND, trace gravel; damp to moist			3	2 3 4	NP	8
		--FILL--						
		--RDR 2--			4	2 4 5	NP	17
	828.3	Loose to medium dense, brown to gray SAND, trace gravel; moist to saturated	10					
		--RDR 2--			5	3 3 5	NP	20
			15		6	3 4 6	NP	21
					7	4 5 9	NP	23
			20		8	3 4 5	NP	18
	808.3	Medium dense, gray SANDY GRAVEL; saturated						
		--RDR 2--	25		9	3 5 8	NP	19
		--2-inch thick silt lens--			10	6 9 10	NP	20
			30		11	5 7 8	NP	19
					12	6 5 5	NP	7
	801.8	Hard, gray SILTY CLAY, trace gravel; damp	35		13	8 7 7	4.00 P	15
		--RDR 2--						
	799.6	Medium dense, gray SAND, trace gravel; saturated						
		--RDR 2--	40		14	3 4 6	NP	15
	796.3	Boring terminated at 40.00 ft						

GENERAL NOTES

Begin Drilling: **02-23-2023** Complete Drilling: **02-23-2023**
Drilling Contractor: **Wang Testing Services** Drill Rig:
Driller: **RR&GT** Logger: **D. Morken** Checked by: **M. Snider**
Drilling Method: **2.25-inch IDA HSA, auto hammer, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: ▽ **11.00 ft**
At Completion of Drilling: ▼ **20.00 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.

WANGENGINC 790701.GPJ WANGENG.GDT 5/19/23

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(847) 605-9600

USER NAME = Mbeening	DESIGNED - IP	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**BORING LOGS 3 STRUCTURE NO. 056-W303**
	DRAWN - IP	REVISED -		
PLOT SCALE = 2.0000 ' / in.	CHECKED - TJA	REVISED -		
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -		SHEET S5-14 OF S5-14 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	577
		CONTRACT NO. 61J93		
	ILLINOIS	FED. AID PROJECT		

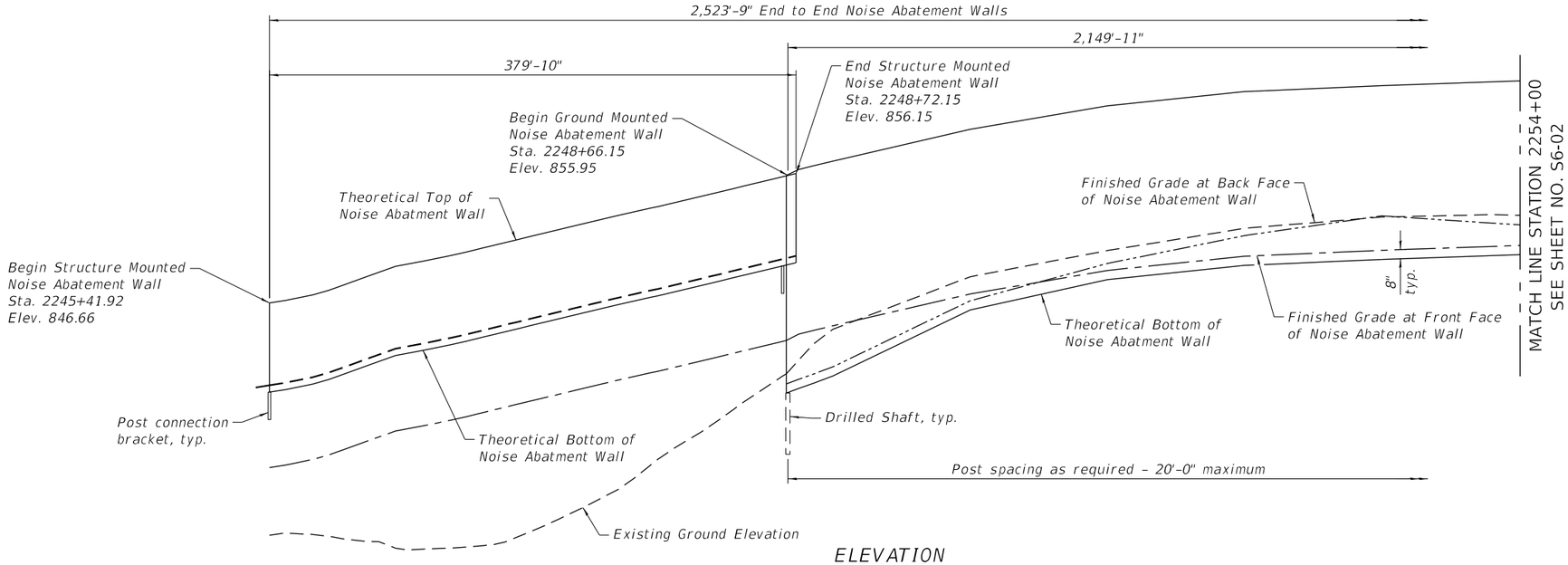
Bench Mark: B.M. #11 Found railroad spike in power pole in the southwest quadrant of the intersection of Randall Road & Miller Road. NAVD '88 Elevation 828.92

Existing Structure: None

Proposed Structure: The proposed noise abatement wall consists of a structure mounted and a ground mounted noise abatement wall with a total length of 2,523'–9" and a maximum height of approximately 12'–0" measured from top of anchorage slab or proposed grade to top of noise wall.

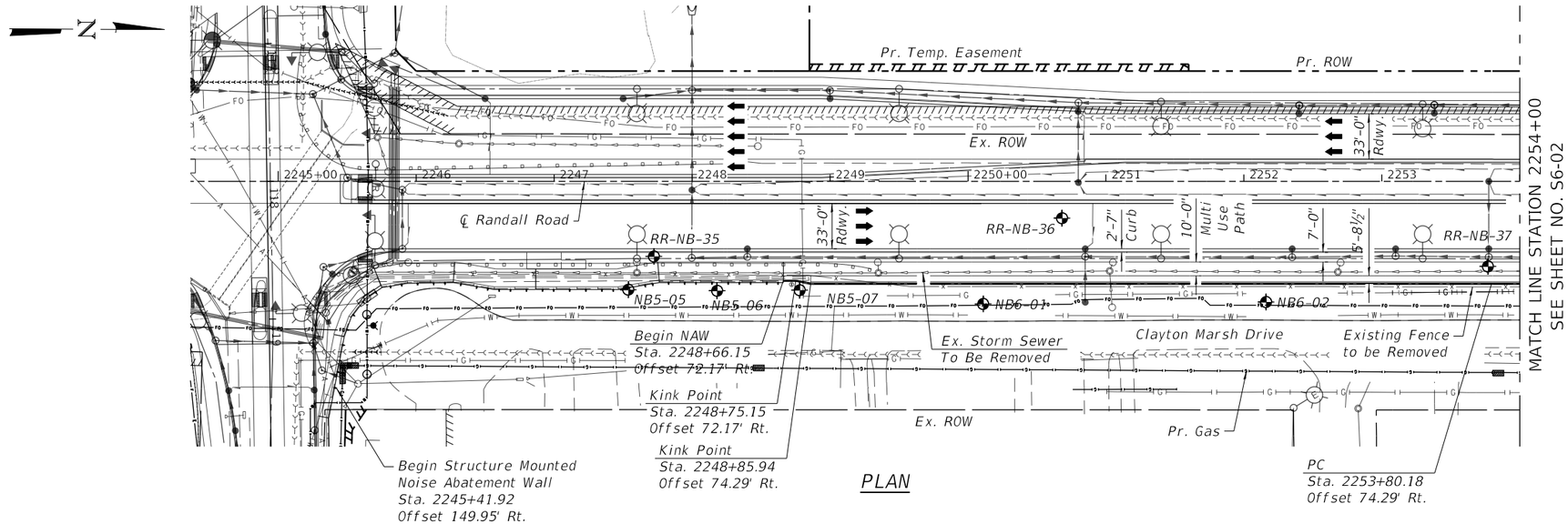
NOTES:

1. Stations and offsets for the Structure Mounted Noise Abatement Wall are measured from the ℄ of Randall Road to ℄ post.
2. Stations and offsets for the Ground Mounted Noise Abatement Wall are measured from the ℄ of Randall Road to the ℄ of Noise Abatement Wall.
3. Ground Mounted Noise Abatement Wall to be constructed along chords to fit the indicated curves.



ELEVATION

(Elevation scaled 1H:10V)



PLAN

LEGEND

- Pr. Drainage
- Ex. Storm Sewer
- Ex. Sanitary Sewer
- Ex. Fiber Optic
- Ex. Gas Line
- Ex. Water Line
- Ex. Fence
- Pr. Lighting
- Pr. Drainage Structure
- Boring Log

GENERAL PLAN AND ELEVATION NOISE ABATEMENT WALL ALONG RANDALL ROAD F.A.P. RTE. 336 SECTION 06-00329-02-PW MCHENRY COUNTY STATION 2245+41.92 TO 2270+22.60

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	DRAWN - TJA	REVISED -	
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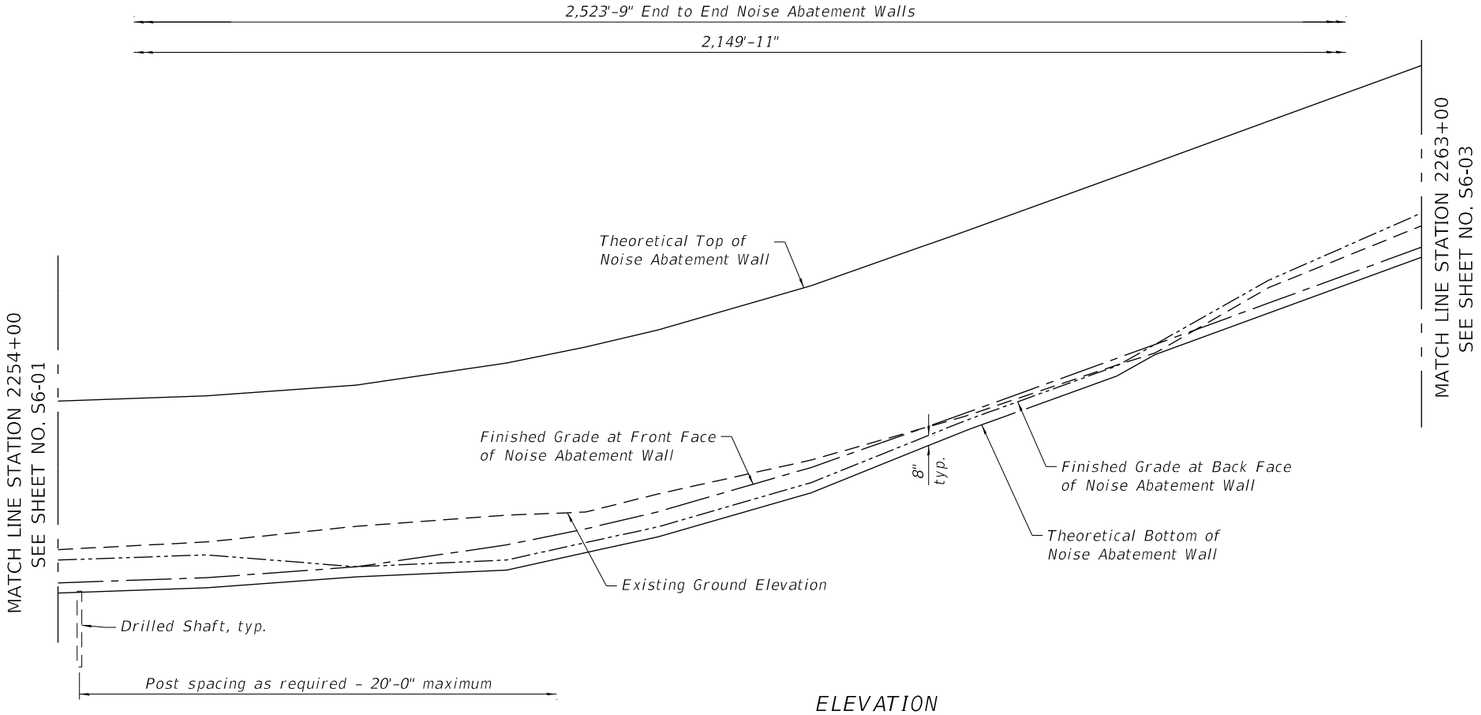
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION - 1
STRUCTURE NO. 056-NAW1
SHEET S6-01 OF S6-16 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	578
		CONTRACT NO. 61J93		
	ILLINOIS	FED. AID PROJECT		



ELEVATION

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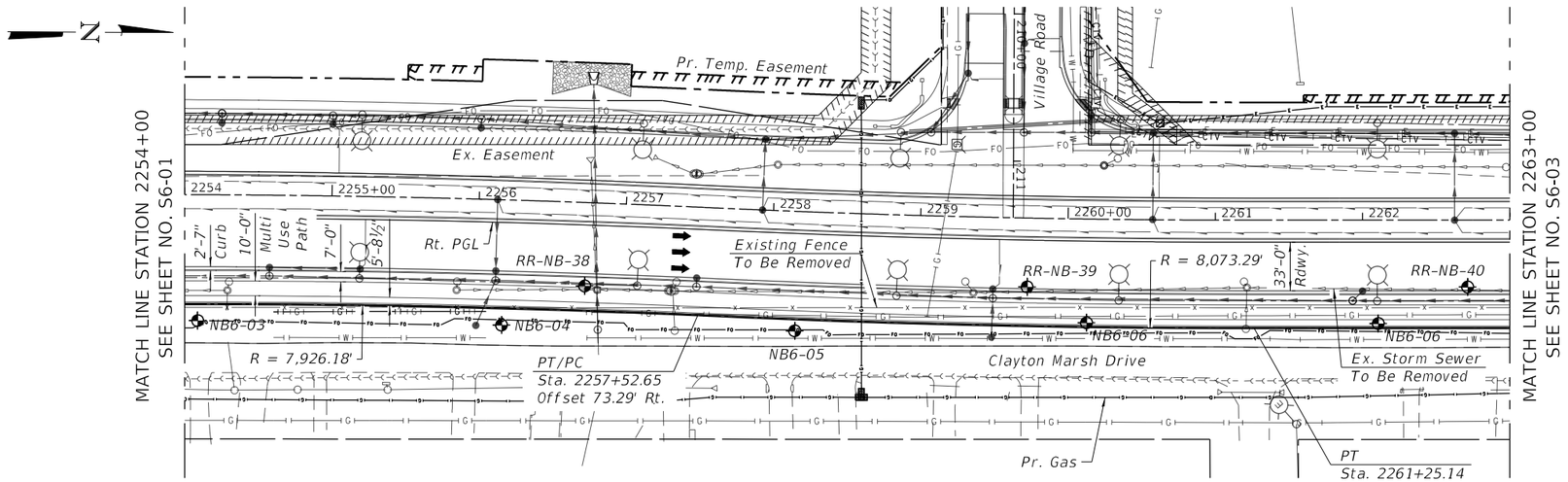

PLAN

NOTES:

1. Stations and offsets for the Ground Mounted Noise Abatement Wall are measured from the ℄ of Randall Road to the ℄ of Noise Abatement Wall.
2. Ground Mounted Noise Abatement Wall to be constructed along chords to fit the indicated curves.

LEGEND

- Pr. Drainage
- Ex. Storm Sewer
- Ex. Sanitary Sewer
- FO — Ex. Fiber Optic
- G — Ex. Gas Line
- W — Ex. Water Line
- x — Ex. Fence
- Pr. Lighting
- Pr. Drainage Structure
- Boring Log

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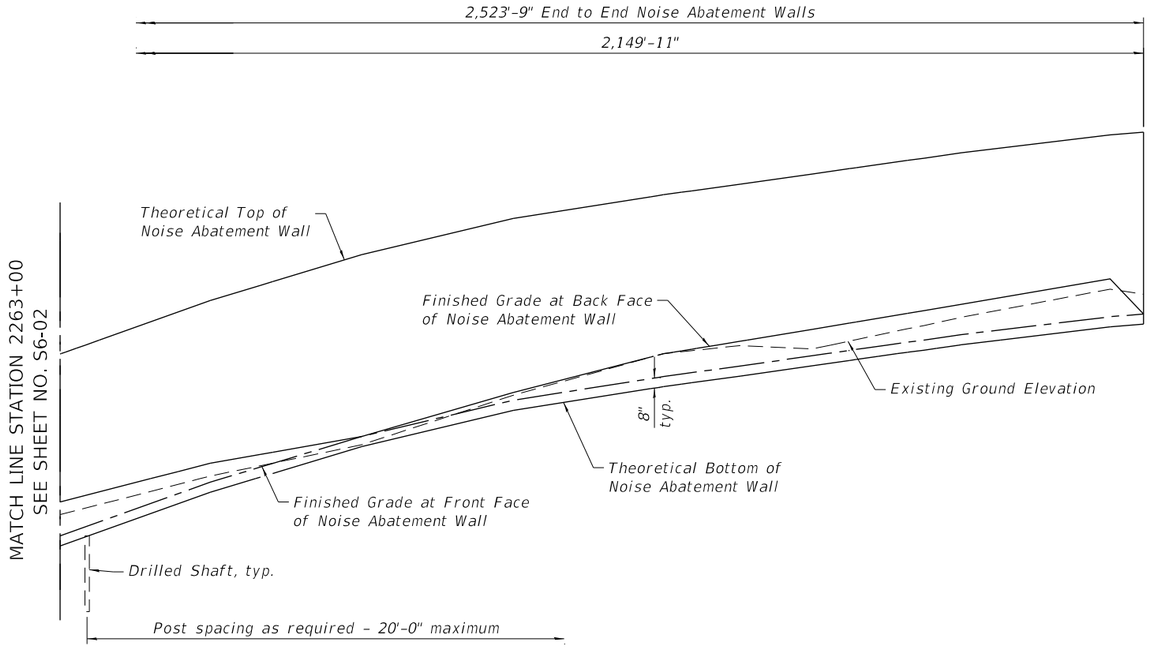
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION - 2
STRUCTURE NO. 056-NAW1
SHEET S6-02 OF S6-16 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	579
		CONTRACT NO. 61J93		
	ILLINOIS	FED. AID PROJECT		



ELEVATION

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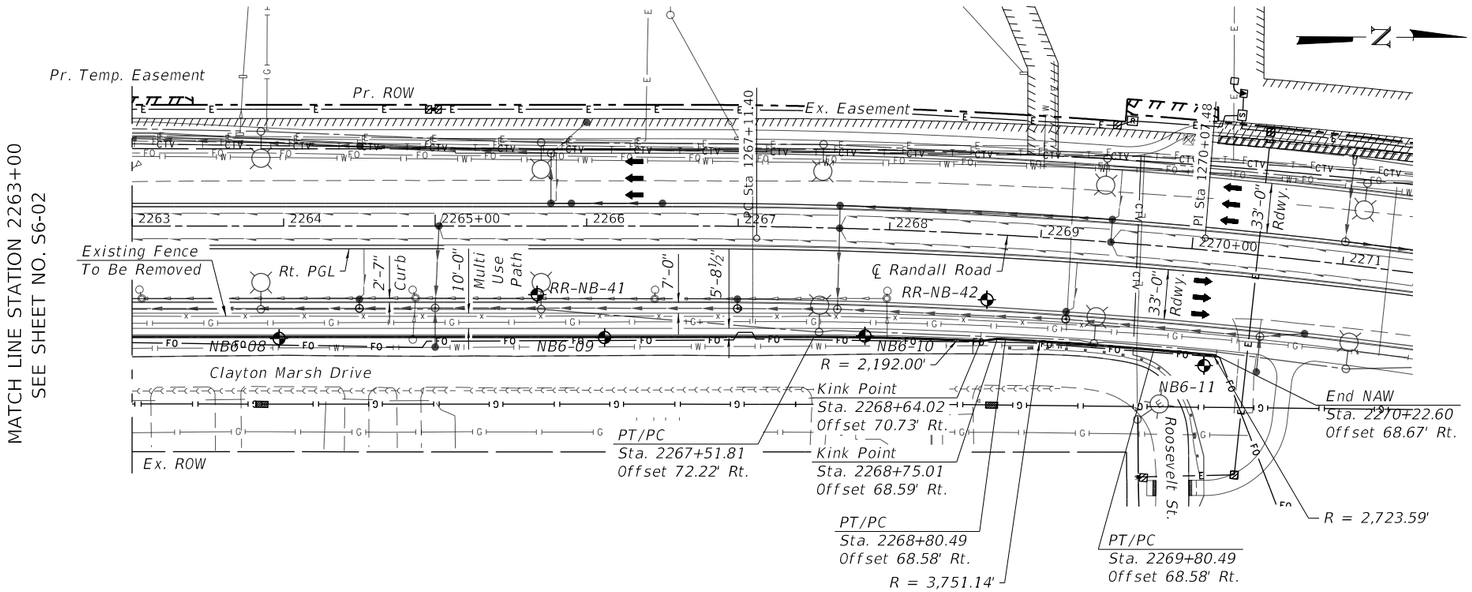

PLAN

NOTES:

1. Stations and offsets for the Ground Mounted Noise Abatement Wall are measured from the ℄ of Randall Road to the ℄ of Noise Abatement Wall.
2. Ground Mounted Noise Abatement Wall to be constructed along chords to fit the indicated curves.

LEGEND

- Pr. Drainage
- Ex. Storm Sewer
- Ex. Sanitary Sewer
- FO — Ex. Fiber Optic
- G — Ex. Gas Line
- W — Ex. Water Line
- x — Ex. Fence
- CTV — Ex. Cable TV
- E — Ex. Underground Electric
- T — Ex. Telephone
- Pr. Lighting
- Pr. Drainage Structure
- Boring Log

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	DRAWN - TJA	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - MDS	REVISED -	
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION 3
STRUCTURE NO. 056-NAW1
SHEET S6-03 OF S6-16 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	580
		CONTRACT NO. 61J93		
	ILLINOIS	FED. AID PROJECT		

GENERAL NOTES

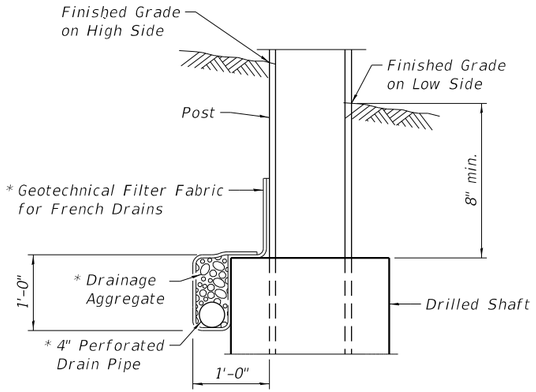
1. The Contractor shall field verify location of the existing utilities prior to construction. The Contractor shall take precautions not to damage existing utilities. Any such damage shall be repaired by the Contractor at no additional cost.

2. Noise Abatement Wall drilled shaft foundation diameter, depth and spacing to be determined by the Contractor.

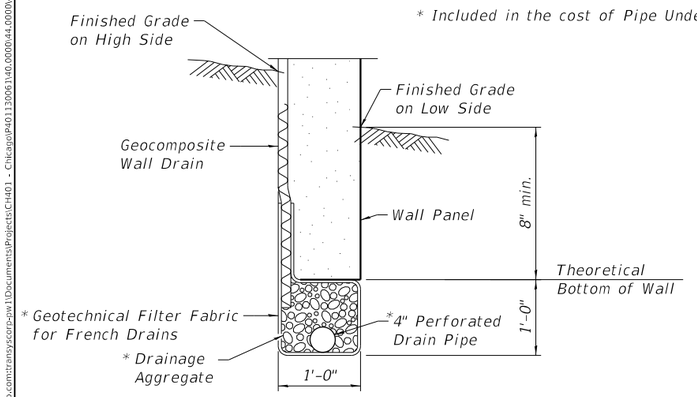
3. Contractor shall provide Ashlar Stone Finish on both faces of Noise Abatement Wall. See Sheet S6-05 of S6-16 .

4. All underground utilities or drainage structure removal or installation shall be completed prior to foundation installation.

5. For posts locations, spacing and numbering in Structure mounted wall, See sheets S5-07 thru S5-09 .



PIPE UNDERDRAIN DETAIL AT DRILLED SHAFTS



PIPE UNDERDRAIN DETAIL BETWEEN DRILLED SHAFTS

* Included in the cost of Pipe Underdrains for Structures

INDEX OF SHEETS

S6-01	General Plan and Elevation 1
S6-02	General Plan and Elevation 2
S6-03	General Plan and Elevation 3
S6-04	General Data
S6-05	Noise Abatement Wall Details 1
S6-06	Noise Abatement Wall Details 2
S6-07	Noise Abatement Wall Data Tables
S6-08	Boring Logs 1
S6-09	Boring Logs 2
S6-10	Boring Logs 3
S6-11	Boring Logs 4
S6-12	Boring Logs 5
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S6-14	Boring Logs 7
S6-15	Boring Logs 8
S6-16	Boring Logs 9

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

DESIGN STRESSES

FIELD UNITS

f'c = 4,000 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (Struct. Steel, M270 Grade 50, posts)
fy = 36,000 psi (Struct. Steel, M270 Grade 36, all other structural steel)

PRECAST UNITS

f'c = 4,500 psi
fy = 60,000 psi (Reinforcement)
fy = 65,000 psi (Welded Wire Reinforcement)

DESIGN LOADS

Strength III or V Wing: 35 psf
Service I Wind: 15 psf
Unfactored Max. Active Earth Pressure: 118 psf
Unfactored Live Load Surcahrge: 110 psf

BILL OF MATERIAL

Item	Unit	Total
Structure Excavation	Cu. Yd.	605
Geocomposite Wall Drain	Sq. Yd.	466
Pipe Underdrains For Structures 4"	Foot	2,142
Noise Abatement Wall, Structure Mounted	Sq. Ft.	2,469
Noise Abatement Wall, Ground Mounted	Sq. Ft.	27,696

NOISE REDUCTION DATA

Noise Wall Structure Number	Face	From Sta.	To Sta.	Noise Reduction Coefficient
056-NAW1	Randall Road	2245+41.92	2270+22.60	Reflective
	Residential	2245+41.92	2270+22.60	Reflective

TRANSYSTEMS
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SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME: pw:\\hq-pwin01.a-e.transystems.com:transystems-pw1\Documents\Projects\CH401 - Chicago\P401133061\40.0000\44.0000\44.0800\Contract 2\Sheet Files\23 Structural Sheets\TSC\Sheets\SN 056-NAW1 - Noise Abatement Wall\056NAW1-62J93-004-GenData1.dgn

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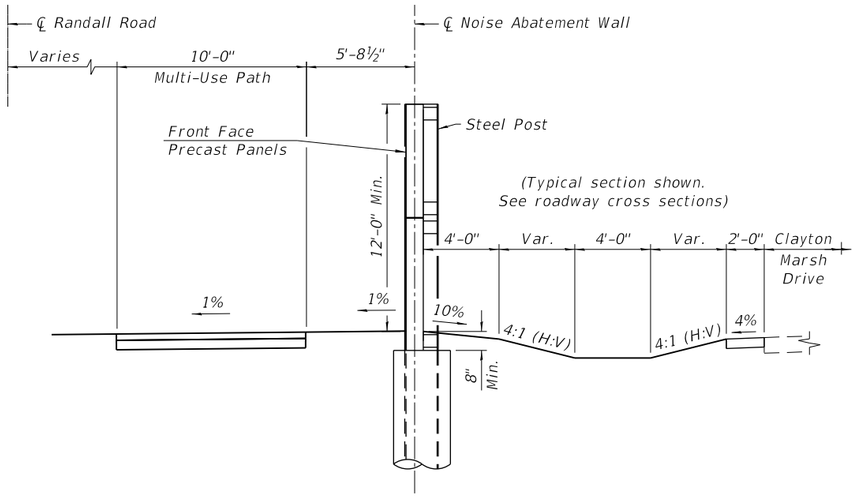
	DRAWN - TJA	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - MDS	REVISED -	
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

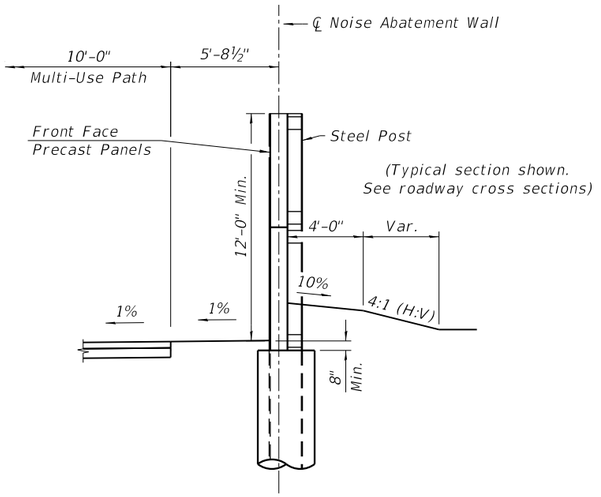
GENERAL DATA
STRUCTURE NO. 056-NAW1
SHEET S6-04 OF S6-16 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	581
		CONTRACT NO. 61J93		
	ILLINOIS FED. AID PROJECT			



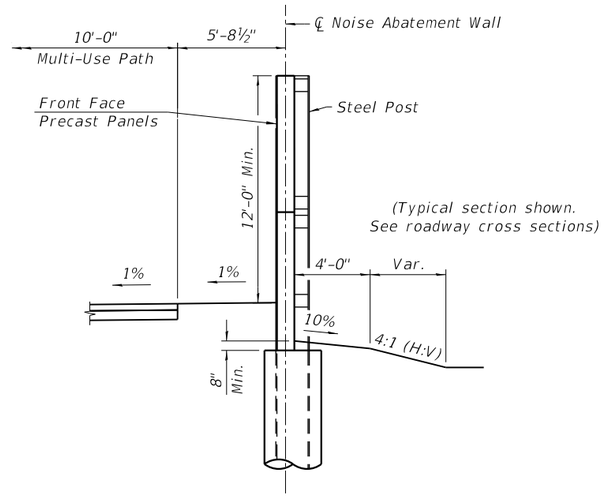
TYPICAL SECTION THRU NOISE ABATMENT WALL

Looking North



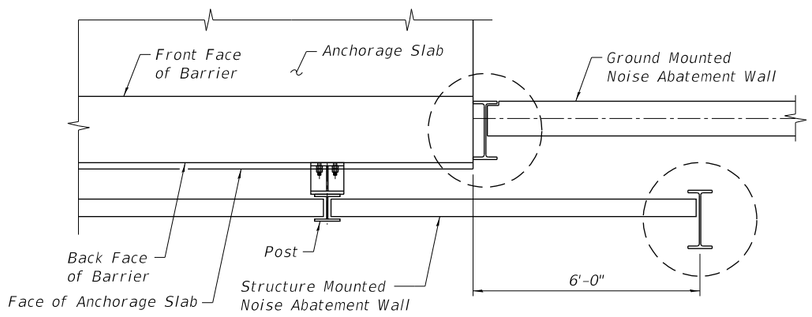
UNBALANCED SOIL CONDITION 1

Looking North

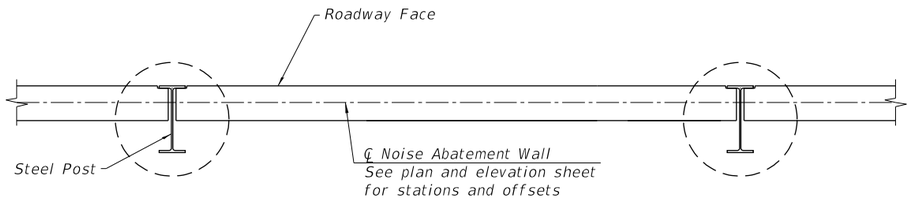


UNBALANCED SOIL CONDITION 2

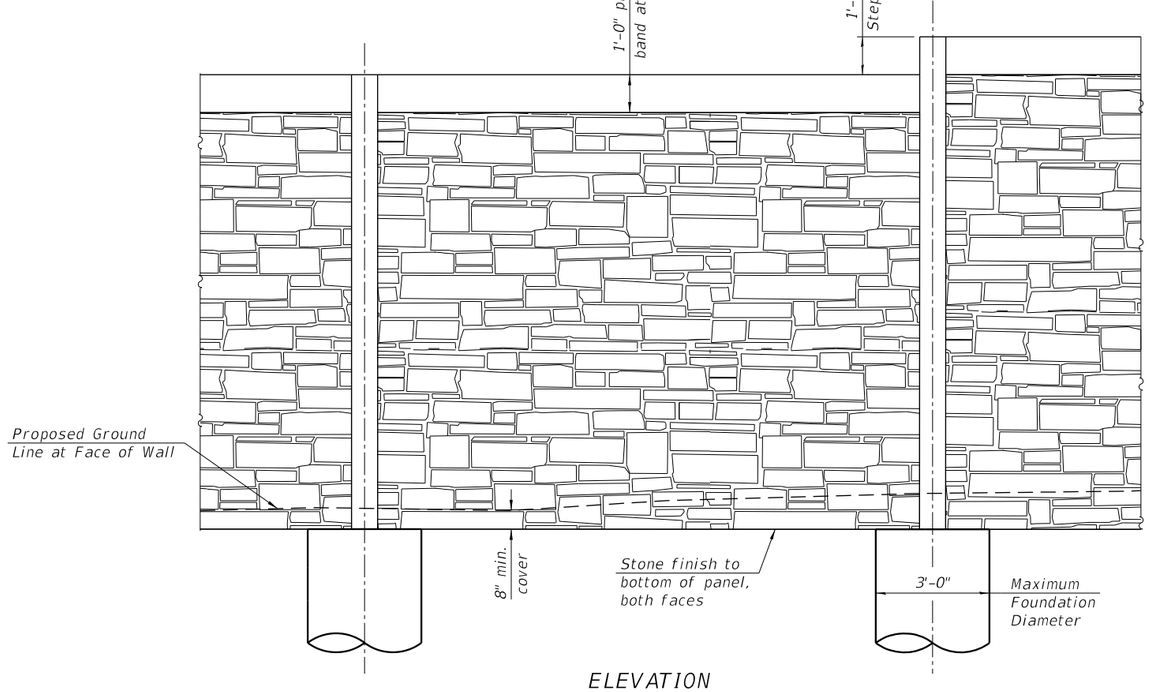
Looking North



PLAN AT END OF BARRIER



PLAN



ELEVATION

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME: pw:\\hq-siwin01.ai-e.transystcorp.com:transystcorp-siw1\Documents\Projects\CH401 - Chicago\P401139061\40.0000\44.0000\44.0800\Contract_2\Sheet Files\33_Structural Sheets\15C-Sheets\S6-056-NAW1-Noise Abatement Wall\056NAW1-62J93-005-NAW-Details1.dgn

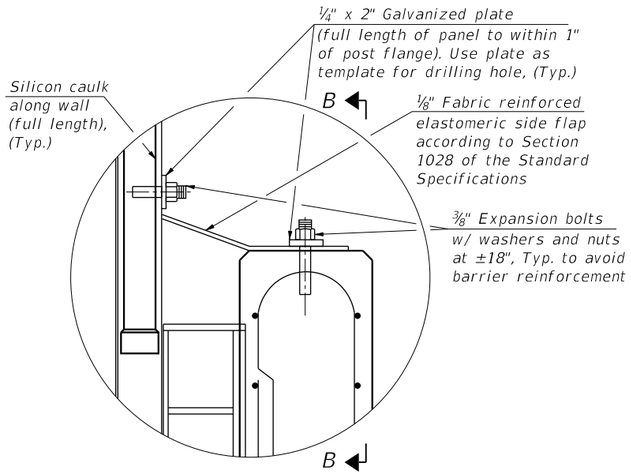
USER NAME = MIbeening	DESIGNED - TJA	REVISED -	
	DRAWN - TJA	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - MDS	REVISED -	
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

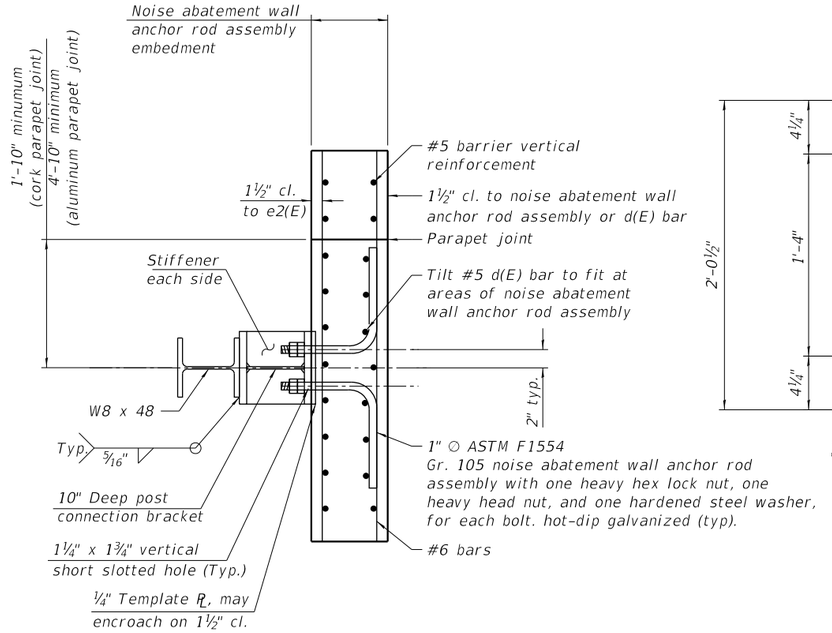
NOISE ABATEMENT WALL DETAILS 1
STRUCTURE NO. 056-NAW1

SHEET S6-05 OF S6-16 SHEETS

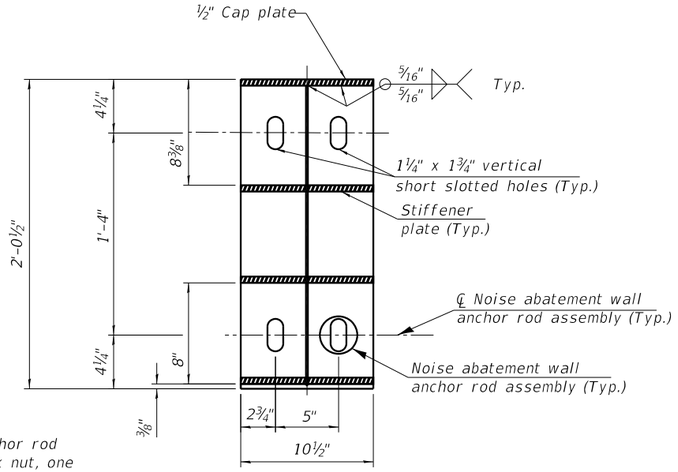
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	582
		CONTRACT NO. 61J93		
		ILLINOIS	FED. AID PROJECT	



TYPICAL SECTION THRU DEBRIS SHIELD

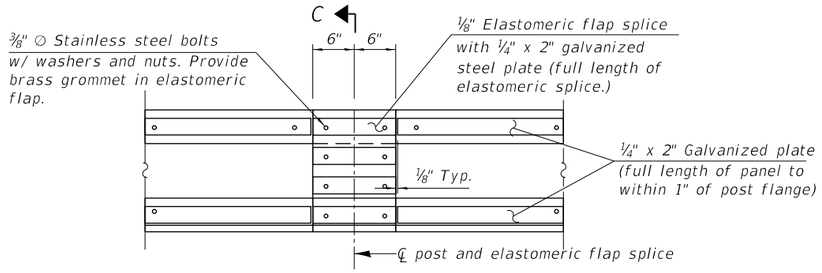


SECTION X-X

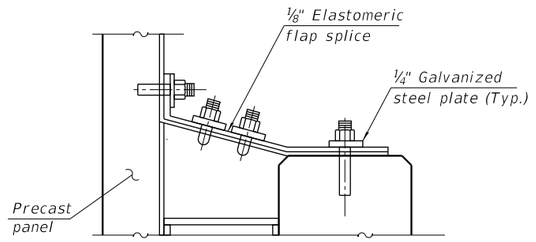


SECTION A-A

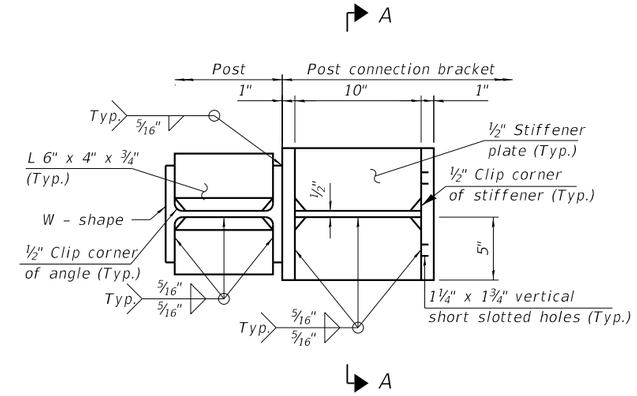
(Showing post connection bracket)



SECTION B-B



SECTION C-C



SECTION THRU POST AND POST CONNECTION BRACKET

(Template ℄ not shown for clarity)

NOTE:

1. Anchorage Slab, Template Plate, and anchor rod details shown for information only. See Anchorage Slab plans for full details.

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(847) 605-9600

USER NAME = Mlbeening	DESIGNED - TJA	REVISED -	
	DRAWN - TJA	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - MDS	REVISED -	
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NOISE ABATEMENT WALL DETAILS 2
STRUCTURE NO. 056-NAW1
SHEET S6-06 OF S6-16 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	583
		CONTRACT NO. 61J93		
	ILLINOIS	FED. AID PROJECT		

STRUCTURE MOUNTED
NOISE ABATEMENT WALL DATA TABLE

Post	Station	Offset	Theoretical Top of NAW Elev.	Top of Parapet Elev.	Theoretical Bottom of NAW Elev.	Existing Grade	Theoretical Wall Height (ft)
1	2245+41.92	149.95' Rt.	846.66	840.66	840.16	829.74	6.50
2	2245+44.10	138.49' Rt.	846.85	840.85	840.35	829.89	6.50
3	2245+45.62	130.47' Rt.	847.01	841.01	840.51	829.85	6.50
4	2245+47.80	119.01' Rt.	847.26	841.26	840.76	829.79	6.50
5	2245+50.78	107.92' Rt.	847.36	841.36	840.86	829.57	6.50
6	2245+55.21	97.53' Rt.	847.47	841.47	840.97	829.26	6.50
7	2245+62.29	88.26' Rt.	848.21	842.21	841.71	829.28	6.50
8	2245+71.14	81.25' Rt.	848.55	842.55	842.05	829.25	6.50
9	2245+81.51	77.17' Rt.	848.97	842.97	842.47	829.06	6.50
10	2245+89.56	75.82' Rt.	849.36	843.36	842.86	828.83	6.50
11	2246+01.01	74.98' Rt.	849.72	843.72	843.22	828.73	6.50
12	2246+12.68	74.78' Rt.	849.95	843.95	843.45	828.77	6.50
13	2246+20.84	74.65' Rt.	850.12	844.12	843.62	828.80	6.50
14	2246+32.26	75.46' Rt.	850.38	844.38	843.88	828.87	6.50
15	2246+43.76	77.41' Rt.	850.67	844.67	844.17	828.98	6.50
16	2246+51.81	78.77' Rt.	850.87	844.87	844.37	829.05	6.50
17	2246+60.15	79.55' Rt.	851.06	845.06	844.56	829.24	6.50
18	2246+68.31	79.55' Rt.	851.26	845.26	844.76	829.57	6.50
19	2246+79.98	79.55' Rt.	851.54	845.54	845.04	830.05	6.50
20	2246+91.65	79.55' Rt.	851.82	845.82	845.32	830.55	6.50
21	2246+99.65	79.55' Rt.	852.01	846.01	845.51	830.92	6.50
22	2247+11.31	79.55' Rt.	852.29	846.29	845.79	831.46	6.50
23	2247+22.98	79.55' Rt.	852.57	846.57	846.07	832.04	6.50
24	2247+34.65	79.55' Rt.	852.85	846.85	846.35	832.65	6.50
25	2247+42.81	79.55' Rt.	853.05	847.05	846.55	833.07	6.50
26	2247+54.61	78.21' Rt.	853.31	847.31	846.81	833.90	6.50
27	2247+66.11	76.27' Rt.	853.57	847.57	847.07	834.83	6.50
28	2247+71.54	75.35' Rt.	853.69	847.69	847.19	835.26	6.50
29	2247+82.97	74.55' Rt.	853.96	847.96	847.46	836.07	6.50
30	2247+94.64	74.55' Rt.	854.24	848.24	847.74	836.76	6.50
31	2248+02.80	74.55' Rt.	854.44	848.44	847.94	837.25	6.50
32	2248+14.47	74.55' Rt.	854.72	848.72	848.22	838.05	6.50
33	2248+26.14	74.55' Rt.	855.00	849.00	848.50	838.89	6.50
34	2248+34.30	74.55' Rt.	855.19	849.19	848.69	839.48	6.50
35	2248+42.47	74.55' Rt.	855.39	849.39	848.89	840.03	6.50
36	2248+54.14	74.55' Rt.	855.67	849.67	849.17	840.80	6.50
37	2248+62.30	74.55' Rt.	855.87	849.87	849.37	841.34	6.50
38	2248+72.15	74.83' Rt.	856.15	850.10	849.60	842.24	6.55

Stations and offsets are to ℄ of posts.

GROUND MOUNTED
NOISE ABATEMENT WALL DATA TABLE

Station	Offset	Theoretical Top of NAW Elev.	Finished Grade at F.F. of Wall	Finished Grade at B.F. of Wall	Existing Grade	Theoretical Bottom of NAW Elev.	Theoretical Wall Height (ft)
2248+66.15	72.17' Rt.	855.95	844.17	840.76	844.95	840.09	15.86
2248+75.15	72.17' Rt.	856.39	844.39	841.09	845.32	840.43	15.96
2248+85.94	74.29' Rt.	856.67	844.67	841.49	843.69	840.82	15.84
2249+00.00	74.29' Rt.	857.00	845.00	842.01	844.76	841.34	15.66
2250+00.00	74.29' Rt.	859.32	847.32	846.82	848.58	846.15	13.16
2251+00.00	74.29' Rt.	861.03	849.03	849.54	850.48	848.37	12.67
2252+00.00	74.29' Rt.	862.07	850.07	851.57	852.10	849.40	12.67
2253+00.00	74.29' Rt.	862.50	850.50	853.01	852.92	849.84	12.67
2253+80.18	74.29' Rt.	862.78	850.78	852.49	853.10	850.12	12.67
2254+00.00	74.24' Rt.	862.85	850.85	852.36	853.05	850.19	12.67
2255+00.00	73.97' Rt.	863.20	851.20	852.71	853.56	850.54	12.67
2256+00.00	73.70' Rt.	863.92	851.92	851.92	854.60	851.25	12.67
2257+00.00	73.43' Rt.	865.37	853.37	852.37	855.33	851.70	13.67
2257+52.66	73.29' Rt.	866.43	854.43	853.52	855.54	852.86	13.57
2258+00.00	73.29' Rt.	867.55	855.55	854.56	856.73	853.89	13.66
2259+00.00	73.29' Rt.	870.47	858.47	857.47	858.96	856.80	13.67
2260+00.00	73.29' Rt.	874.03	862.03	861.53	861.83	860.86	13.16
2261+00.00	73.29' Rt.	877.68	865.68	865.18	865.23	864.51	13.16
2261+25.14	73.29' Rt.	878.60	866.60	866.60	866.03	865.93	12.67
2262+00.00	73.29' Rt.	881.33	869.33	870.83	870.34	868.66	12.67
2263+00.00	73.29' Rt.	884.98	872.98	875.23	874.39	872.31	12.67
2264+00.00	73.29' Rt.	888.55	876.55	877.80	876.96	875.88	12.67
2265+00.00	73.29' Rt.	891.57	879.57	879.57	879.03	878.90	12.67
2266+00.00	73.29' Rt.	893.96	881.96	882.47	882.30	881.30	12.67
2267+00.00	73.09' Rt.	895.53	883.53	885.03	885.04	882.86	12.67
2267+51.81	72.22' Rt.	896.23	884.23	885.86	885.57	883.56	12.67
2268+00.00	71.30' Rt.	896.90	884.90	886.64	885.35	884.23	12.67
2268+64.02	70.73' Rt.	897.80	885.80	887.70	886.68	885.13	12.67
2268+75.01	68.59' Rt.	897.93	885.93	887.88	886.89	885.27	12.67
2269+00.00	68.58' Rt.	898.29	886.29	888.29	887.44	885.63	12.67
2270+00.00	68.60' Rt.	899.47	887.47	889.97	889.30	886.81	12.67
2270+22.60	68.67' Rt.	899.66	887.66	887.66	888.96	886.99	12.67

Stations and offsets are to ℄ of Noise Abatement Wall.

NOTE:

1. Theoretical Top of NAW Elev., Theoretical Bottom of NAW Elev., Finished Grade Elev. at Front Face of NAW, and Finished Grade Elev. at Back Face of NAW shall be taken as straight lines in the segments between each pair of stations shown in the NAW Data Table.

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
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(847) 605-9600

USER NAME = Mlbeening	DESIGNED - TJA	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**NOISE ABATEMENT WALL DATA TABLES STRUCTURE NO. 056-W303-NAW**	
	DRAWN - TJA	REVISED -			
PLOT SCALE = 2.0000 ' / in.	CHECKED - MDS	REVISED -			
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -		SHEET S6-07 OF S6-16 SHEETS	

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	584
		CONTRACT NO. 61J93		
	ILLINOIS	FED. AID PROJECT		

Wang Engineering
wangeng@wangeng.com
Telephone:
Fax:

BORING LOG NB4-01

WEI Job No.: 790-77-01
Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 876.84 ft
North: 2008006.87 ft
East: 983765.10 ft
Station: 2205+45.62
Offset: 81.36 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	876.5	4-inch thick, dark brown SILTY CLAY LOAM --TOPSOIL--						
		Very stiff, brown SILTY CLAY, trace gravel; moist --FILL-- --RDR 2--			1	4 4 4	2.46 B	16
	873.8	Stiff to hard, brown and gray SILTY CLAY, trace gravel; moist --RDR 2--	5		2	2 3 4	1.23 B	19
					3	6 9 11	5.90 B	13
			10		4	6 6 8	4.02 B	15
					5	6 7 10	NR	
			15		6	3 4 7	2.79 B	18
	860.6	Dense, gray SANDY LOAM, little gravel; damp			7	10 19 17	NP	9
	859.8	Gray GRAVELLY SAND; damp --RDR 2--						
	858.8	Loose, gray SANDY LOAM; wet --RDR 2--						
	857.3	Medium stiff to stiff, gray SILTY	20		8	2 3 5	NP	14

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		CLAY LOAM, trace gravel; damp --RDR 2--			9	8 10 11	2.13 B	12
	854.3	Boring terminated at 22.50 ft	25					
			30					
			35					
			40					

GENERAL NOTES

Begin Drilling: 08-09-2017 Complete Drilling: 08-09-2017
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: J & M Logger: J. Rowells Checked by: NSB
Drilling Method: 2.25-inch IDA HSA, auto hammer, boring backfilled
upon completion

WATER LEVEL DATA

While Drilling: 18.00 ft
At Completion of Drilling: 22.50 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.

Wang Engineering
wangeng@wangeng.com
Telephone:
Fax:

BORING LOG NB4-01B

WEI Job No.: 790-77-01
Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 834.32 ft
North: 2010055.59 ft
East: 983644.40 ft
Station:
Offset:

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	833.5	10-inch thick ASPHALT --PAVEMENT--						
		Medium dense, brown, medium SAND, little gravel; damp --FILL--			1	9 13 8	NP	4
	831.3	Stiff, black SILTY CLAY, trace gravel; moist --Buried TOPSOIL-- --RDR 2--	5		2	2 3 4	NA	11
	827.7	Stiff, black, brown and green CLAY to SILTY CLAY, trace gravel; moist			3	2 3 3	1.31 B	33
	826.3	Medium dense, gray SANDY LOAM, trace gravel; saturated --RDR 2--	10		4	5 6 4	NP	9
	823.8	Loose, gray SILT, trace gravel; moist --RDR 2--			5	4 2 4	NP	16
	821.3	Very soft, gray SILTY CLAY LOAM, trace gravel; moist --RDR 2--	15		6	4 3 5	< 0.25 P	16
	818.8	Stiff to very stiff, gray SILTY CLAY LOAM to SILTY CLAY, trace gravel; moist --RDR 2--			7	4 4 4	1.56 B	12
			20		8	4 4 7	2.46 B	14

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			25		9	4 5 8	3.03 B	14
					10	5 6 7	3.03 B	14
	806.3	Soft, gray SILTY CLAY LOAM to SILTY CLAY; moist --RDR 2--			11	4 4 7	2.46 B	15
			30		12	5 5 7	0.33 B	19
	802.0	Medium dense, brown SAND, some gravel; saturated --RDR 2--						
			35		13	2 5 10	NP	11
	797.6	Gray SILTY CLAY, some gravel; moist --RDR 2--						
			40		14	7 6 10	NA	13

GENERAL NOTES

Begin Drilling: 02-24-2023 Complete Drilling: 02-24-2023
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: KG&TC Logger: A. Scifers Checked by: JAB
Drilling Method: 2.25-inch IDA HSA, auto hammer, boring backfilled
upon completion

WATER LEVEL DATA

While Drilling: 8.00 ft
At Completion of Drilling: 11.00 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.

Wang Engineering
wangeng@wangeng.com
Telephone:
Fax:

BORING LOG NB4-01B

WEI Job No.: 790-77-01
Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 834.32 ft
North: 2010055.59 ft
East: 983644.40 ft
Station:
Offset:

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	792.6	Medium dense, brown SAND, trace to little gravel; saturated --RDR 2--						
			45		15	6 9 9	NP	13
					16	6 10 12	NP	21
	784.3	Boring terminated at 50.00 ft	50					
			55					
			60					

GENERAL NOTES

Begin Drilling: 02-24-2023 Complete Drilling: 02-24-2023
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: KG&TC Logger: A. Scifers Checked by: JAB
Drilling Method: 2.25-inch IDA HSA, auto hammer, boring backfilled
upon completion

WATER LEVEL DATA

While Drilling: 8.00 ft
At Completion of Drilling: 11.00 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.

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

USER NAME = MIbeening	DESIGNED - TJA	REVISED -	
	DRAWN - TJA	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - MDS	REVISED -	
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 1
STRUCTURE NO. 056-NAW1
SHEET S6-08 OF S6-16 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	585
		CONTRACT NO. 61J93		
		ILLINOIS FED. AID PROJECT		

Page 1 of 1

Wang Engineering

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BORING LOG NB4-02

WEI Job No.: 790-77-01

Client: **TranSystems Corporation**
Project: **Randall Road Phase II Improvements**
Location: **McHenry County, IL**

Datum: NAVD88
Elevation: 880.06 ft
North: 2007957.35 ft
East: 983761.45 ft
Station: 2204+96.13
Offset: 77.34 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	879.6	5-inch thick, dark brown SILTY CLAY LOAM --TOPSOIL--						
		Medium stiff to stiff, brown SILTY CLAY to SILTY CLAY LOAM, trace gravel --FILL--			1	4 3 3	1.80 B	15
	874.6	Hard, gray SILTY CLAY, trace gravel; moist --RDR 2--	5		2	2 2 1	0.82 B	13
					3	7 9 13	5.74 B	15
			10		4	5 7 9	4.18 B	14
					5	6 13 14	5.33 B	16
	865.6	Gray SANDY GRAVEL; wet --RDR 2--	15		6	3 7 10	5.17 B	18
		--sample missed, 16 to 17.5 feet--			7			
	862.6	Medium dense, gray, fine SAND; saturated						
	860.5	Gray GRAVELLY SAND;	20		8	3 10 15	NP	17

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	859.6	saturated --RDR 3--						
		Stiff to very stiff, gray SILTY CLAY LOAM, trace gravel; moist --RDR 2--			9	4 5 7	1.80 B	13
			25		10	5 6 9	2.54 B	12
					11	5 6 9	2.30 B	11
					12	7 8 10	2.30 B	12
	850.1	Boring terminated at 30.00 ft	30					
			35					
			40					

GENERAL NOTES

Begin Drilling: **08-09-2017** Complete Drilling: **08-09-2017**
Drilling Contractor: **Wang Testing Services** Drill Rig:
Driller: **J & M** Logger: **J. Rowells** Checked by: **NSB**
Drilling Method: **2.25-inch IDA HSA, auto hammer, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **14.50 ft**
At Completion of Drilling: **30.00 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.

WANGENGINC 790701.GPJ WANGENG.GDT 3/6/23

Page 1 of 2

Wang Engineering

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BORING LOG NB4-02B

WEI Job No.: 790-77-01

Client: **TranSystems Corporation**
Project: **Randall Road Phase II Improvements**
Location: **McHenry County, IL**

Datum: NAVD88
Elevation: 838.97 ft
North: 2009928.85 ft
East: 983638.87 ft
Station:
Offset:

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	838.3	8-inch thick ASPHALT --PAVEMENT--						
	838.0	4-inch thick SANDY GRAVEL --BASE COURSE--						
	837.8	Loose, brown SANDY LOAM, trace gravel; moist --FILL--			1	4 5 3	1.00 P	18
	836.0	Stiff, black SILTY CLAY LOAM; moist --Buried TOPSOIL--	5		2	5 3 3	2.13 B	15
		Very stiff to hard, brown to gray SILTY CLAY, trace gravel; damp to moist --RDR 2-- --Qu: 4.50P--			3	7 9 9	NP	21
	832.6	Medium dense, brown SAND, trace gravel; saturated						
	831.0	Dense, brown SANDY GRAVEL; saturated --silt seams--	10		4	13 15 27	NP	12
	828.5	Stiff to very stiff, gray SILTY CLAY LOAM to SILTY CLAY, tracc gravcl; damp to moist --RDR 2--			5	4 4 6	1.97 B	16
			15		6	3 6 4	1.07 B	14
					7	3 5 7	1.31 B	12
			20		8	2 5 6	1.80 B	13

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
					9	3 6 7	1.15 B	15
			25		10	3 5 5	3.03 B	15
					11	4 6 8	3.69 B	16
	807.2	Medium dense, gray SAND, little gravel; saturated --RDR 2--	30		12	5 5 8	3.77 B	22
			35		13	8 13 14	NP	8
	802.2	Dense, gray GRAVEL; saturated --RDR 2--						
	799.8	Medium dense to dense, gray SAND, trace to little gravel;	40		14	10 15 16	NP	12

GENERAL NOTES

Begin Drilling: **02-28-2023** Complete Drilling: **02-28-2023**
Drilling Contractor: **Wang Testing Services** Drill Rig:
Driller: **RR&GT** Logger: **D. Morken** Checked by: **JAB**
Drilling Method: **2.25-inch IDA HSA to 10' mud rotary after, auto hammer, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **5.00 ft**
At Completion of Drilling: **MUD**
Time After Drilling: **NA**
Depth to Water: **NA**

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

WANGENGINC 790701.GPJ WANGENG.GDT 3/6/23

Page 2 of 2

Wang Engineering

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BORING LOG NB4-02B

WEI Job No.: 790-77-01

Client: **TranSystems Corporation**
Project: **Randall Road Phase II Improvements**
Location: **McHenry County, IL**

Datum: NAVD88
Elevation: 838.97 ft
North: 2009928.85 ft
East: 983638.87 ft
Station:
O/set:

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		saturated --RDR 2-3-- --rig chatter--			9	3 6 7	1.15 B	15
			45		10	3 5 5	3.03 B	15
					11	4 6 8	3.69 B	16
		--rig chatter--	50		12	5 5 8	3.77 B	22
					13	8 13 14	NP	8
		--rig chatter--	55		14	10 15 16	NP	12
					15	8 15 13	NP	19
		--rig chatter--	60		16	9 28 21	NP	12
		--loss drilling mud--			17	11 14 17	NP	20
			65		18	11 15 16	NP	19

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	777.2	Very stiff, pinkish gray SILTY CLAY, trace gravel; damp --RDR 2--						
	774.0	Boring terminated at 65.00 ft	65		19	3 6 9	2.50 P	21
			70					
			75					
			80					

GENERAL NOTES

Begin Drilling: **02-28-2023** Complete Drilling: **02-28-2023**
Drilling Contractor: **Wang Testing Services** Drill Rig:
Driller: **RR&GT** Logger: **D. Morken** Checked by: **JAB**
Drilling Method: **2.25-inch IDA HSA to 10' mud rotary after, auto hammer, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **5.00 ft**
At Completion of Drilling: **MUD**
Time After Drilling: **NA**
Depth to Water: **NA**

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

WANGENGINC 790701.GPJ WANGENG.GDT 3/6/23

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME: pw:\\hq-pwint01.ai-e.transystems.com:transystems~pw11Documents\Projects\CH401 - Chicago\P401130061\40.0000\44.0000\44.0800\Contract 2\Sheet Files\123 Structural Sheets\TSC\Sheets\SN_056-NAW1 - Noise Abatement Wall\056NAW1-462\93-009-BoringLog2.dgn

USER NAME = MIbeening	DESIGNED - TJA	REVISED -	
	DRAWN - TJA	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - MDS	REVISED -	
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 2
STRUCTURE NO. 056-NAW1
SHEET S6-09 OF S6-16 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	586
		CONTRACT NO. 61J93		
	ILLINOIS	FED. AID PROJECT		

Page 1 of 1

BORING LOG NB4-03

Wang Engineering

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Telephone:
Fax:

WEI Job No.: 790-77-01

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 883.15 ft
North: 2007903.89 ft
East: 983765.84 ft
Station: 2204+42.63
Offset: 81.39 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	883.0	2-inch thick, dark brown SILTY CLAY LOAM --TOPSOIL--						
		Hard, brown SILTY CLAY, trace gravel; moist --FILL--			1	5 5 3	4.67 B	14
	880.1	--RDR 2-- Very stiff to hard, brown and gray SILTY CLAY, trace gravel; moist --RDR 2--	5		2	2 3 5	3.03 B	16
					3	4 6 6	4.76 B	15
			10		4	4 7 10	5.82 B	15
					5	5 7 8	5.25 B	14
			15		6	4 6 8	4.51 B	14
	865.8	Gray SILT; damp --RDR 2--			7	5 9 13	5.74 B	18
	864.3	Medium dense, gray SANDY LOAM; wet			8	6 4 6	NP	15
	863.1	Boring terminated at 20.00 ft	20					

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)

GENERAL NOTES

Begin Drilling: 08-09-2017 Complete Drilling: 08-09-2017
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: J & M Logger: J. Rowells Checked by: NSB
Drilling Method: 2.25-inch IDA HSA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 19.00 ft
At Completion of Drilling: 20.00 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.

WANGENGINC 790701.GPJ WANGENG.GDT 3/6/23

Page 1 of 2

BORING LOG NB4-03B

Wang Engineering

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Telephone:
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WEI Job No.: 790-77-01

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NGVD
Elevation: ft
North: ft
East: ft
Station:
Offset:

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		12-inch thick ASPHALT --PAVEMENT--						
		6-inch thick SANDY GRAVEL --BASE COURSE-- Very stiff, brown SILTY CLAY LOAM, trace gravel; damp --FILL--			1	5 6 6	3.50 P	8
		Medium dense, brown and gray LOAM, trace gravel; wet --FILL--	5		2	4 4 8	2.00 P	16
		Very stiff, brown and gray SILTY CLAY, trace gravel; damp --FILL--			3	5 6 5	NP	13
		Medium dense, yellowish brown LOAM, trace gravel; wet --FILL--			4	3 2 5	0.90 B	15
		Medium stiff to very stiff, greenish gray to gray SILTY CLAY, trace gravel; moist --RDR 2--	10		5	4 5 8	2.46 B	15
			15		6	4 6 8	1.64 B	13
					7	6 6 8	2.71 B	13
			20		8	5 7 10	2.95 B	15

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
					9	8 12 12	2.79 B	16
			25		10	6 8 9	3.03 B	16
					11	3 6 7	3.03 B	20
			30		12	6 10 13	3.12 B	20
		--heaving sand in augers; flushed out augers with water-- Gray SAND						
		Medium stiff, gray SILTY CLAY LOAM, little gravel --RDR 2--			13	2 3 7	0.50 P	21
		--heaving sand in augers-- Medium dense, gray SAND, little gravel; saturated --RDR 2--	40		14	6 7 10	NP	10

GENERAL NOTES

Begin Drilling: 02-24-2023 Complete Drilling: 02-24-2023
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: RR&GT Logger: D. Morken Checked by: JAB
Drilling Method: 2.25-inch IDA HSA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 6.00 ft
At Completion of Drilling: 9' WASH
Time After Drilling: NA
Depth to Water: NA

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

WANGENGINC 790701.GPJ WANGENG.GDT 3/6/23

Page 2 of 2

BORING LOG NB4-03B

Wang Engineering

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Telephone:
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WEI Job No.: 790-77-01

Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NGVD
Elevation: ft
North: ft
East: ft
Station:
Offset:

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--heaving sand in augers--	45		15	8 12 16	NP	11
		Boring terminated at 50.00 ft	50		16	7 5 13	NP	14

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			55					
			60					

GENERAL NOTES

Begin Drilling: 02-24-2023 Complete Drilling: 02-24-2023
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: RR&GT Logger: D. Morken Checked by: JAB
Drilling Method: 2.25-inch IDA HSA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 6.00 ft
At Completion of Drilling: 9' WASH
Time After Drilling: NA
Depth to Water: NA

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

WANGENGINC 790701.GPJ WANGENG.GDT 3/6/23

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME: pw:\\tig-cwim01.a-e.transystems.com:transystemscorp-pw1\Documents\Projects\CH401 - Chicago\P401130061\400044.0000\44.0800\Contract_2\Sheet Files\23_Structural Sheets\TSCISheets\SN_056-NAW1 - Noise Abatement Wall\056NAW1-462-P03-010-BoringLog3.dgn

USER NAME = Mbeening	DESIGNED - TJA	REVISED -	
	DRAWN - TJA	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - MDS	REVISED -	
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 3
STRUCTURE NO. 056-NAW1
SHEET S6-10 OF S6-16 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	587
		CONTRACT NO. 61J93		
	ILLINOIS	FED. AID PROJECT		

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BORING LOG NB5-01

WEI Job No.: 790-77-01
Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 833.03 ft
North: 2011975.71 ft
East: 983782.06 ft
Station: 2245+15.07
Offset: 149.86 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	832.5	7-inch thick, brown SILTY CLAY, little gravel; damp						
		--TOPSOIL--						
		Medium stiff to very stiff, dark brown to dark greenish gray SILTY CLAY, little to some gravel; damp to moist			1	10 9 8	2.25 P	9
		--FILL--						
		--RDR 2--	5		2	5 8 10	0.75 P	11
	827.5	Soft to medium stiff, black, dark gray and dark greenish brown SILTY CLAY, trace to some organic matter; moist			3	1 2 3	0.49 B	45
		--RDR 1--	10		4	1 2 1	0.49 B	109
					5	2 1 1	0.74 B	109
	820.0	Very soft to soft, gray SILTY CLAY; moist to wet						
		--RDR 1--	15		6	1 0 1	0.49 B	78
	816.7	Loose to dense, gray LOAM, little to some gravel; saturated			7	3 4 3	< 0.25 P	32
		--RDR 2-3--	20		8	5 5 6	NP	11
	798.0	Boring terminated at 35.00 ft	35		9	18 19 11	NP	9
			25		10	7 8 10	NP	10
			30		11	14 5 4	NP	11
					12	20 7 5	NP	8
			35		13	6 5 5	NP	11
			40					

GENERAL NOTES

Begin Drilling: 04-23-2021 Complete Drilling: 04-23-2021
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: J&M Logger: T. Rothschild Checked by: JAB
Drilling Method: 3.25-inch IDA HSA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 16.50 ft
At Completion of Drilling: 18.00 ft
Time After Drilling: NA
Depth to Water: NA

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

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BORING LOG NB5-02

WEI Job No.: 790-77-01
Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 829.39 ft
North: 2012010.43 ft
East: 983723.38 ft
Station: 2245+50.08
Offset: 91.35 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		Stiff, black SILTY CLAY LOAM; damp						
		--TOPSOIL--			1	2 2 2	1.75 P	30
	827.4	Stiff (1.00P), brown CLAY LOAM, little gravel; damp to moist						
		--RDR 2--	5		2	2 0 1	0.50 P	105
	825.6	Medium stiff, black SILTY CLAY LOAM; damp						
		--BURIED TOPSOIL--			3	1 1 2	0.25 P	119
	823.9	Soft to medium stiff, brown and black PEAT; damp						
		--RDR 2--	10		4	0 0 0	0.50 P	58
	818.9	Medium dense, gray SANDY GRAVEL; saturated			5	9 9 10	NP	24
		--RDR 2--						
	816.4	Loose to medium dense, gray, coarse SAND, little gravel; wet to saturated			6	5 5 7	NP	12
		--RDR 2-3--	15		7	3 4 6	NP	11
			20		8	3 5 7	NP	11
	794.4	Boring terminated at 35.00 ft	35		9	7 9 5	NP	15
			25		10	3 5 5	NP	16
			30		11	8 13 14	NP	16
					12	2 2 5	NP	13
			35		13	5 7 9	NP	16
			40					

GENERAL NOTES

Begin Drilling: 04-05-2021 Complete Drilling: 04-05-2021
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: J&M Logger: M. Sadowski Checked by: JAB
Drilling Method: 3.25-inch IDA HSA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 10.50 ft
At Completion of Drilling: 19.00 ft
Time After Drilling: NA
Depth to Water: NA

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

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BORING LOG NB5-03

WEI Job No.: 790-77-01
Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 829.25 ft
North: 2012074.98 ft
East: 983714.14 ft
Station: 2246+14.68
Offset: 82.43 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		9-inch thick ASPHALT						
	828.5	--PAVEMENT--						
	828.0	Brown and gray SANDY GRAVEL; dry to wet			1	2 2 3	2.00 P	33
		--FILL--						
		Stiff to very stiff, black, organic SILTY CLAY; damp						
		--RDR 2--	5		2	1 2 2	1.25 P	102
	825.0	Brown and black PEAT; damp						
	823.8	Medium stiff, gray CLAY LOAM; damp to moist			3	2 3 3	0.75 P	16
		--RDR 2--	10		4	4 5 7	NP	20
	821.3	Medium dense, gray, medium to coarse SAND, some gravel; saturated			5	3 5 6	NP	16
		--RDR 2--						
			15		6	6 7 6	NP	10
					7	6 8 7	NP	10
	811.3	Medium stiff, gray CLAY LOAM, little gravel; damp						
			20		8	6 9 6	0.50 P	18
	808.8	Loose to medium dense, gray, medium to coarse SAND, some gravel; saturated			9	4 5 4	NP	9
		--RDR 2--	25		10	8 8 9	NP	9
	803.8	Very stiff, gray CLAY LOAM, little gravel; damp to moist			11	8 13 13	2.25 P	11
		--RDR 3--	30		12	9 8 8	3.28 B	9
	801.3	Very stiff, gray SILTY CLAY LOAM, little gravel; damp						
		--RDR 3--						
	797.0	Stiff, gray CLAY LOAM, little gravel; damp						
		--RDR 2-3--	35		13	5 5 6	1.23 B	11
	794.3	Boring terminated at 35.00 ft	40					

GENERAL NOTES

Begin Drilling: 04-09-2021 Complete Drilling: 04-09-2021
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: J&A Logger: I. Nenn Checked by: JAB
Drilling Method: 3.25-inch IDA HSA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 8.00 ft
At Completion of Drilling: 7.00 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.

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME: pw:\\hq-pwin01.a-e.transystems.com:transystems-pw1\Documents\Projects\CH401 - Chicago\P401130061\40.0000\44.0000\44.0800\Contract 2\Sheet Files\23 Structural Sheets\TSC\Sheets\SN_05E-NAW1 - Noise Abatement Wall\05ENAW1-62J93-01-BoringLog4.dgn

USER NAME = Mbeening	DESIGNED - TJA	REVISED -	
	DRAWN - TJA	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - MDS	REVISED -	
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 4
STRUCTURE NO. 056-NAW1
SHEET S6-11 OF S6-16 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	588
		CONTRACT NO. 61J93		
	ILLINOIS FED. AID PROJECT			

Wang Engineering
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BORING LOG NB5-04

WEI Job No.: 790-77-01
Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 831.10 ft
North: 2012147.51 ft
East: 983736.07 ft
Station: 2246+87.11
Offset: 104.72 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (0tw/6 in)	Qu (tsf)	Moisture Content (%)
	830.4	9-inch thick ASPHALT --PAVEMENT--						
	829.9	Brown and gray SANDY GRAVEL; moist to wet --FILL--			1	2 2 4	0.50 P	30
	828.1	Medium stiff, black, organic SILTY CLAY LOAM; damp						
		Very soft, brown CLAY LOAM, trace gravel; moist --RDR 2--	5		2	3 4 3	< 0.25 P	20
	825.6	Medium dense, brown, fine SAND; damp						
	824.6	Very stiff, gray SILTY CLAY LOAM, trace gravel; damp			3	5 7 8	3.50 P	15
	823.1	Loose to medium dense, gray, fine to coarse SAND; damp to wet --RDR 2--	10		4	5 6 6	NP	10
	819.4	Very stiff, gray CLAY LOAM, trace gravel; damp			5	4 3 3	2.50 P	11
	818.1	Hard, gray SILTY CLAY LOAM, trace gravel; damp --RDR 2--	15		6	4 6 6	5.08 B	11
	815.6	Medium stiff to stiff, gray CLAY LOAM, little gravel; damp --RDR 2--			7	3 2 3	0.82 B	12
			20		8	3 4 4	1.48 B	12
	810.6	Very stiff to hard, gray SILTY CLAY LOAM, trace to little gravel; damp --RDR 2-3--			9	5 9 9	3.94 B	11
			25		10	5 8 10	3.53 B	10
					11	7 8 10	5.58 B	11
		--slow hard drilling--	30		12	7 8 12	4.92 B	10
	796.1	Boring terminated at 35.00 ft	35		13	6 8 10	5.08 B	11
			40					

GENERAL NOTES

Begin Drilling: 04-09-2021 Complete Drilling: 04-09-2021
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: J&A Logger: I. Nenn Checked by: JAB
Drilling Method: 3.25-inch IDA HSA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 10.00 ft
At Completion of Drilling: DRY
Time After Drilling: NA
Depth to Water: NA

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

WANGENGINC 790701.GPJ WANGENG.GDT 3/6/23

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BORING LOG NB5-05

WEI Job No.: 790-77-01
Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 833.58 ft
North: 2012214.03 ft
East: 983709.65 ft
Station: 2247+53.75
Offset: 78.62 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (0tw/6 in)	Qu (tsf)	Moisture Content (%)
	832.3	15-inch thick, stiff (1.25P), black SILTY CLAY LOAM; damp --TOPSOIL--						
		Medium dense, brown and gray, medium to coarse SAND, little to some gravel; damp to moist --RDR 2--			1	6 7 7	NP	6
	829.6	Very stiff, brown to gray CLAY LOAM, trace gravel; damp --RDR 2--	5		2	2 6 11	2.75 P	16
	828.1	Stiff to hard, gray SILTY CLAY LOAM, trace to little gravel; damp --RDR 2-3--			3	2 3 4	1.07 B	12
			10		4	3 5 7	2.05 B	12
					5	4 4 6	1.00 P	13
			15		6	4 6 7	2.13 B	11
					7	4 7 9	2.05 B	11
			20		8	5 6 9	4.10 B	12
		--slow drilling--			9	7 7 8	4.02 B	10
		--slow drilling--	25		10	6 6 8	3.69 B	12
		--water added to help drilling--			11	6 7 8	4.10 B	12
			30		12	5 6 11	5.74 B	11
		--slow hard drilling--			13	7 11 14	5.00 B	11
	798.6	Boring terminated at 35.00 ft	35					
			40					

GENERAL NOTES

Begin Drilling: 04-09-2021 Complete Drilling: 04-09-2021
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: J&A Logger: I. Nenn Checked by: JAB
Drilling Method: 3.25-inch IDA HSA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: DRY
At Completion of Drilling: DRY
Time After Drilling: NA
Depth to Water: NA

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

WANGENGINC 790701.GPJ WANGENG.GDT 3/6/23

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BORING LOG NB5-06

WEI Job No.: 790-77-01
Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 837.32 ft
North: 2012278.43 ft
East: 983710.12 ft
Station: 2248+18.14
Offset: 79.41 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (0tw/6 in)	Qu (tsf)	Moisture Content (%)
	836.1	15-inch thick, black SILTY CLAY LOAM; damp --TOPSOIL--						
		Very stiff, brown and gray CLAY LOAM, some gravel; damp --RDR 2--			1	4 6 7	2.75 P	20
	834.3	Medium stiff to very stiff, brown to gray SILTY CLAY LOAM, trace to little gravel; damp --RDR 2--	5		2	5 6 7	1.72 B	10
					3	3 3 4	0.75 P	12
			10		4	4 5 7	2.13 B	11
	826.8	Medium dense, gray, medium to coarse SAND; wet to saturated --RDR 2--			5	8 11 16	NP	7
	823.3	Very stiff to hard, gray SILTY CLAY LOAM, trace to some gravel; damp --RDR 2-3--	15		6	7 7 6	2.30 B	11
					7	8 9 13	2.87 B	11
			20		8	5 9 9	4.26 B	11
			25		9	6 8 13	4.59 B	9
					10	5 6 11	3.85 B	10
			30		11	8 10 10	2.38 B	11
					12	7 10 15	6.23 B	10
	802.3	Boring terminated at 35.00 ft	35		13	8 10 15	5.33 B	9
			40					

GENERAL NOTES

Begin Drilling: 04-12-2021 Complete Drilling: 04-12-2021
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: J&M Logger: M. Sadowski Checked by: JAB
Drilling Method: 3.25-inch IDA HSA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

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

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

WANGENGINC 790701.GPJ WANGENG.GDT 3/6/23

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
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FILE NAME: pw:\\hq-pwint01.a-e.transystems.com:transystems~pw1\Documents\Projects\CH401 - Chicago\P401130061\40.0000\44.0000\44.0800\Contract 2\Sheet Files\23 Structural Sheets\TSC\Sheets\SN_056-NAW1 - Noise Abatement Wall\056NAW1-I-62J93-01-2-BoringLogS.dgn

USER NAME = MIbeening	DESIGNED - TJA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BORING LOGS 5 STRUCTURE NO. 056-NAW1	
	DRAWN - TJA	REVISED -			
PLOT SCALE = 2.0000 ' / in.	CHECKED - MDS	REVISED -			
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -		SHEET S6-12 OF S6-16 SHEETS	

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	589
		CONTRACT NO. 61J93		
	ILLINOIS	FED. AID PROJECT		

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BORING LOG NB5-07

WEI Job No.: 790-77-01
Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 841.53 ft
North: 2012338.30 ft
East: 983709.42 ft
Station: 2248+78.02
Offset: 79.01 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (0/w/6 in)	Qu (tsf)	Moisture Content (%)
	840.5	12-inch thick, black SILTY CLAY LOAM; damp						
		--TOPSOIL--						
		Soft to stiff, brown and gray CLAY LOAM, little to some gravel; damp to moist			1	3 3 3	1.25 P	12
		--RDR 2-3--			2	3 4 5	0.25 P	14
	836.0	Very stiff to hard, gray SILTY CLAY LOAM, little to some gravel; damp	5		3	8 8 8	2.13 B	10
		--RDR 2-3--						
		--rig chatter; possible cobbles--	10		4	5 6 8	3.69 B	9
					5	5 6 9	4.35 B	10
		--rig chatter; possible cobbles--	15		6	6 6 8	4.10 B	12
	826.0	Medium stiff to stiff, gray SILTY CLAY LOAM, trace to little gravel; damp			7	4 5 6	0.98 B	12
		--RDR 2-4--						
		--added water to help with drilling--	20		8	4 5 8	1.72 B	13

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (0/w/6 in)	Qu (tsf)	Moisture Content (%)
	821.0	Very stiff to hard, gray SILTY CLAY LOAM, trace to little gravel; damp			9	7 7 9	2.87 B	11
		--RDR 2-3--	25		10	5 7 12	5.49 B	10
					11	8 9 12	5.33 B	10
			30		12	8 12 15	4.92 B	13
					13	9 10 11	5.00 B	11
	806.5	Boring terminated at 35.00 ft	35					
			40					

GENERAL NOTES

Begin Drilling: 04-12-2021 Complete Drilling: 04-12-2021
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: J&M Logger: M. Sadowski Checked by: JAB
Drilling Method: 3.25-inch IDA HSA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: DRY
At Completion of Drilling: DRY
Time After Drilling: NA
Depth to Water: NA

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

WANGENGINC 790701.GPJ WANGENG.GDT 3/6/23

BORING LOG NB6-01

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WEI Job No.: 790-77-01
Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 846.88 ft
North: 2012471.30 ft
East: 983718.74 ft
Station: 2250+10.98
Offset: 88.98 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (0/w/6 in)	Qu (tsf)	Moisture Content (%)
	845.9	12-inch thick, black SILTY CLAY LOAM						
		--TOPSOIL--						
		Stiff, brown SILTY CLAY LOAM, trace gravel; damp			1	3 3 4	1.00 P	18
		--RDR 2--						
	843.9	Loose, brown, fine to coarse SAND; damp to wet	5		2	3 3 2	NP	8
		--RDR 2--						
		--trace gravel--			3	2 2 6	NP	21
	838.9	Stiff, reddish brown to gray CLAY LOAM, little gravel; damp						
		--RDR 2--	10		4	2 4 4	1.15 B	12
	836.4	Very stiff, gray SILTY CLAY LOAM, trace to little gravel; damp			5	4 5 7	2.38 B	11
		--RDR 2-5--	15		6	5 6 9	2.13 B	12
					7	50/3"	2.00 P	13
	829.4	--auger refusal at 17.5'; possible granite boulder--						
		Boring terminated at 17.50 ft	20					

GENERAL NOTES

Begin Drilling: 04-08-2021 Complete Drilling: 04-08-2021
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: J&M Logger: M. Sadowski Checked by: JAB
Drilling Method: 3.25-inch IDA HSA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 8.00 ft
At Completion of Drilling: DRY
Time After Drilling: NA
Depth to Water: NA

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

WANGENGINC 790701.GPJ WANGENG.GDT 3/6/23

BORING LOG NB6-02

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WEI Job No.: 790-77-01
Client: TranSystems Corporation
Project: Randall Road Phase II Improvements
Location: McHenry County, IL

Datum: NAVD88
Elevation: 852.49 ft
North: 2012676.40 ft
East: 983716.32 ft
Station: 2252+16.08
Offset: 87.57 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (0/w/6 in)	Qu (tsf)	Moisture Content (%)
	851.7	9-inch thick, brown SILTY CLAY LOAM						
		--TOPSOIL--						
		Very stiff, brown SILTY CLAY, trace gravel; damp			1	4 4 6	2.00 P	24
		--RDR 2--						
	848.7	Loose to medium dense, brown, medium to coarse SAND; dry to saturated	5		2	3 2 2	NP	8
		--RDR 2--						
		--few silt lenses--			3	5 6 8	NP	19
			10		4	6 8 10	NP	9
					5	8 7 9	NP	19
		--some gravel--			6	9 8 8	NP	13
			15					
	837.0	Very stiff, gray SILTY CLAY, trace to little gravel; damp			7	4 4 7	2.87 B	15
		--RDR 2--						
			20		8	8 7 10	3.28 B	13

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (0/w/6 in)	Qu (tsf)	Moisture Content (%)
		--few sand lenses--			9	8 7 10	2.50 P	14
			25		10	7 8 13	2.05 B	14
	827.5	Boring terminated at 25.00 ft						
			30					
			35					
			40					

GENERAL NOTES

Begin Drilling: 04-09-2021 Complete Drilling: 04-09-2021
Drilling Contractor: Wang Testing Services Drill Rig:
Driller: R&J Logger: I. Nenn Checked by: JAB
Drilling Method: 3.25-inch IDA HSA, auto hammer, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 11.00 ft
At Completion of Drilling: DRY
Time After Drilling: NA
Depth to Water: NA

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

WANGENGINC 790701.GPJ WANGENG.GDT 3/6/23

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
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FILE NAME: pw:\\tfs-pwint01.a-e.transystems.com:transystems-pw1\Documents\Projects\CH401 - Chicago\P401130061\40.0000\44.0000\44.0800\Contract 2\Sheet Files\123 Structural Sheets\TSCISheets\SN_056-NAW1 - Noise Abatement Wall\056NAW1-62J93-01-3-BoringLog6.dgn

USER NAME = MIbeening	DESIGNED - TJA	REVISED -	
	DRAWN - TJA	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - MDS	REVISED -	
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 6
STRUCTURE NO. 056-NAW1
SHEET S6-13 OF S6-16 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	590
		CONTRACT NO. 61J93		
		ILLINOIS	FED. AID PROJECT	

Page 1 of 1

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BORING LOG NB6-03

WEI Job No.: 790-77-01

Client: **TranSystems Corporation**
Project: **Randall Road Phase II Improvements**
Location: **McHenry County, IL**

Datum: NAVD88
Elevation: 853.15 ft
North: 2012869.05 ft
East: 983713.33 ft
Station: 2254+09.05
Offset: 85.48 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	852.5	8-inch thick, brown SILTY CLAY LOAM						
		--TOPSOIL--						
		Medium stiff to stiff, brown LOAM to SILTY LOAM, trace gravel; damp			1	4 3 5	1.00 P	14
		--RDR 2--						
			5		2	2 3 3	0.50 P	31
	847.7	Loose, brown SANDY LOAM; moist						
		--RDR 2--			3	2 2 2	NP	19
	845.2	Medium dense, brown SILT, few sand and clay lenses; wet to saturated						
		--RDR 2--	10		4	4 5 6	NP	18
	842.7	Medium dense, brown, medium SAND; saturated						
		--RDR 2--			5	6 9 9	NP	19
	840.2	Stiff to very stiff, gray SILTY CLAY LOAM, little gravel; damp						
		--RDR 2--	15		6	4 6 6	1.23 B	11
					7	9 10 11	3.00 P	13
		--few sand lenses--						
			20		8	5 5 7	3.69 B	12
	832.7	Stiff, gray SILTY CLAY, trace gravel; damp						
		--RDR 2--			9	6 8 9	1.64 B	14
	828.2	Boring terminated at 25.00 ft	25		10	4 4 5	1.80 B	15
			30					
			35					
			40					

GENERAL NOTES

Begin Drilling: **04-09-2021** Complete Drilling: **04-09-2021**
Drilling Contractor: **Wang Testing Services** Drill Rig:
Driller: **R&J** Logger: **I. Nenn** Checked by: **JAB**
Drilling Method: **3.25-inch IDA HSA, auto hammer, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **8.50 ft**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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

WANGENGINC 790701.GPJ WANGENG.GDT 3/6/23

Page 1 of 1

Wang Engineering

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BORING LOG NB6-04

WEI Job No.: 790-77-01

Client: **TranSystems Corporation**
Project: **Randall Road Phase II Improvements**
Location: **McHenry County, IL**

Datum: NAVD88
Elevation: 853.18 ft
North: 2013075.37 ft
East: 983715.35 ft
Station: 2256+17.61
Offset: 85.08 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	851.9	15-inch thick, stiff (1.00P), black SILTY CLAY LOAM; damp						
		--TOPSOIL--						
		Stiff, brown and gray SILTY CLAY LOAM, trace organic matter; damp			1	4 4 4	1.25 P	16
	850.2	--FILL--						
		Stiff, black, organic SILTY CLAY LOAM to SILTY LOAM; damp						
		--RDR 2--	5		2	4 5 6	1.25 P	21
	847.7	Medium dense, brown, medium SAND; damp to saturated						
		--RDR 2--			3	3 5 6	NP	17
		--Qu: 2.00 P--						
	845.9	Stiff to very stiff, brown and gray CLAY LOAM, trace to little gravel; damp						
		--RDR 2--	10		4	3 3 5	1.31 B	19
					5	5 7 8	1.39 B	11
	840.2	Very stiff to hard, gray SILTY CLAY LOAM to SILTY CLAY, trace gravel; damp						
		--RDR 2--	15		6	5 6 10	2.54 B	12
					7	5 6 7	3.77 B	13
		--1-inch thick sandy gravel lens--						
			20		8	6 8 9	6.89 B	13
	828.2	Boring terminated at 25.00 ft	25		9	4 6 9	3.12 B	15
			30		10	4 7 8	2.21 B	14
			35					
			40					

GENERAL NOTES

Begin Drilling: **04-13-2021** Complete Drilling: **04-13-2021**
Drilling Contractor: **Wang Testing Services** Drill Rig:
Driller: **J&M** Logger: **M. Sadowski** Checked by: **JAB**
Drilling Method: **2.25-inch IDA HSA, auto hammer, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **6.50 ft**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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

WANGENGINC 790701.GPJ WANGENG.GDT 3/6/23

Page 1 of 1

Wang Engineering

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BORING LOG NB6-05

WEI Job No.: 790-77-01

Client: **TranSystems Corporation**
Project: **Randall Road Phase II Improvements**
Location: **McHenry County, IL**

Datum: NAVD88
Elevation: 855.04 ft
North: 2013274.50 ft
East: 983718.32 ft
Station: 2258+17.48
Offset: 81.15 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		Medium stiff, black SILTY CLAY LOAM; damp						
		--TOPSOIL--						
	853.0	Medium stiff, brown and gray CLAY LOAM, little gravel; damp to moist			1	4 5 3	0.75 P	20
		--RDR 2--	5		2	2 3 3	0.50 P	17
	849.5	Stiff to hard, brown to gray SILTY CLAY LOAM, trace to little gravel; damp						
		--RDR 2-3--			3	4 3 5	2.13 B	15
			10		4	4 5 8	1.00 P	15
					5	4 6 7	2.21 B	10
			15		6	4 4 4	1.07 B	13
					7	4 9 10	2.38 B	11
			20		8	8 10 11	1.50 P	11
		--rig chatter--			9	6 7 11	6.07 B	10
	830.0	Boring terminated at 25.00 ft	25		10	8 9 10	4.67 B	10
			30					
			35					
			40					

GENERAL NOTES

Begin Drilling: **04-13-2021** Complete Drilling: **04-13-2021**
Drilling Contractor: **Wang Testing Services** Drill Rig:
Driller: **J&M** Logger: **M. Sadowski** Checked by: **JAB**
Drilling Method: **2.25-inch IDA HSA, auto hammer, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

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

WANGENGINC 790701.GPJ WANGENG.GDT 3/6/23

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME: pw:\\hs-pwint01.a-e.transystems.com:transystems\projects\CH401 - Chicago\P401130061\40.0000\44.0000\44.0800\Contract 2\Sheet Files\23 Structural Sheets\TSC\Sheets\SN_056-NAW1 - Noise Abatement Wall\056NAW1-62J93-01-14-BoringLog7.dgn

USER NAME = MIbeening	DESIGNED - TJA	REVISED -	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION**	**BORING LOGS 7** **STRUCTURE NO. 056-NAW1**
	DRAWN - TJA	REVISED -		
PLOT SCALE = 2.0000 ' / in.	CHECKED - MDS	REVISED -		SHEET S6-14 OF S6-16 SHEETS
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -		

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	591
		CONTRACT NO. 61J93		
		ILLINOIS	FED. AID PROJECT	

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BORING LOG NB6-06

WEI Job No.: 790-77-01

Client: **TranSystems Corporation**
Project: **Randall Road Phase II Improvements**
Location: **McHenry County, IL**

Datum: NAVD88
Elevation: 863.33 ft
North: 2013472.60 ft
East: 983711.85 ft
Station: 2260+13.54
Offset: 70.47 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	862.3	12-inch thick, brown SILTY CLAY LOAM						
		--TOPSOIL--						
		Very stiff, brown and black SILTY CLAY LOAM, trace brick and glass fragments; damp			1	3 3 3	2.00 P	12
	860.3	--FILL--						
		Medium dense, brown, coarse SAND, some gravel; dry --RDR 2--	5		2	6 12 15	NP	6
	857.8	Soft to very stiff, pinkish brown SILTY CLAY LOAM, trace gravel; damp --RDR 2--			3	5 4 3	1.23 B	13
			10		4	2 2 4	0.41 B	12
					5	5 6 7	2.54 B	10
			15		6	5 7 11	3.28 B	10
					7	10 8 8	2.21 B	9
	845.3	Medium dense, pinkish brown fine to coarse SAND; saturated --RDR 2--	20		8	7 9 11	NP	12

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
					9	10 11 11	NP	16
	840.3	Dense, pinkish brown SILT; saturated --RDR 2--	25		10	15 15 18	NP	18
	838.3	Boring terminated at 25.00 ft						
			30					
			35					
			40					

GENERAL NOTES

Begin Drilling: **04-09-2021** Complete Drilling: **04-09-2021**
Drilling Contractor: **Wang Testing Services** Drill Rig:
Driller: **R&J** Logger: **I. Nenn** Checked by: **JAB**
Drilling Method: **3.25-inch IDA HSA, auto hammer, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: ▽ **18.50 ft**
At Completion of Drilling: ▼ **22.00 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.

Wang Engineering
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Telephone:
Fax:

BORING LOG NB6-07

WEI Job No.: 790-77-01

Client: **TranSystems Corporation**
Project: **Randall Road Phase II Improvements**
Location: **McHenry County, IL**

Datum: NAVD88
Elevation: 871.49 ft
North: 2013670.70 ft
East: 983711.38 ft
Station: 2262+10.66
Offset: 70.19 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	870.5	12-inch thick, brown SILTY CLAY LOAM						
		--TOPSOIL--						
		Very stiff, brown SILTY CLAY LOAM, trace gravel; damp --RDR 2--			1	4 4 4	2.50 P	16
	868.5	Stiff to hard, light brown SILTY LOAM to LOAM, trace gravel; damp --RDR 2--	5		2	3 4 7	1.00 P	12
					3	6 9 9	1.64 S	10
			10		4	5 8 10	1.72 B	10
					5	6 8 8	4.92 B	9
			15		6	4 15 12	2.05 B	8
					7	10 14 16	3.69 S	8
	853.5	Medium dense, brown, SANDY GRAVEL; saturated --RDR 2--	20		8	5 10 12	NP	8

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	851.0	Hard (4.50P), brown SILTY LOAM			9	26 29 29	NP	7
	850.2	Very dense, gray SANDY GRAVEL; saturated --RDR 2--						
	848.5	Hard, pinkish brown SILTY CLAY LOAM, trace gravel; damp	25		10	30 16 10	4.92 B	11
	846.5	Boring terminated at 25.00 ft						
			30					
			35					
			40					

GENERAL NOTES

Begin Drilling: **04-09-2021** Complete Drilling: **04-09-2021**
Drilling Contractor: **Wang Testing Services** Drill Rig:
Driller: **R&J** Logger: **I. Nenn** Checked by: **JAB**
Drilling Method: **3.25-inch IDA HSA, auto hammer, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: ▽ **18.50 ft**
At Completion of Drilling: ▼ **15.00 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.

Wang Engineering
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Telephone:
Fax:

BORING LOG NB6-08

WEI Job No.: 790-77-01

Client: **TranSystems Corporation**
Project: **Randall Road Phase II Improvements**
Location: **McHenry County, IL**

Datum: NAVD88
Elevation: 876.73 ft
North: 2013857.07 ft
East: 983714.52 ft
Station: 2263+79.01
Offset: 74.25 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	875.6	15-inch thick, very stiff (2.25P), black SILTY CLAY LOAM; damp						
		--TOPSOIL--			1	3 4 4	1.75 P	17
	873.7	Stiff, brown and gray CLAY LOAM, little gravel; damp to moist --RDR 2--	5		2	2 3 3	0.33 B	13
		Soft to stiff, brown to gray CLAY LOAM, little gravel; damp to moist --RDR 2--			3	1 2 3	0.41 B	13
			10		4	4 5 5	0.25 B	13
					5	3 3 4	0.90 B	10
			15		6	3 3 5	0.90 B	9
					7	6 5 6	1.64 B	10
			20		8	4 4 3	0.90 B	11

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	866.2	Gray, medium to coarse SAND; saturated			9	6 3 3	1.48 B	12
	865.5	Very stiff, gray CLAY LOAM; damp --RDR 2--	25		10	6 5 5	3.28 B	11
	851.7	Boring terminated at 25.00 ft						
			30					
			35					
			40					

GENERAL NOTES

Begin Drilling: **04-13-2021** Complete Drilling: **04-13-2021**
Drilling Contractor: **Wang Testing Services** Drill Rig:
Driller: **J&M** Logger: **M. Sadowski** Checked by: **JAB**
Drilling Method: **2.25-inch IDA HSA, auto hammer, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: ▽ **20.50 ft**
At Completion of Drilling: ▼ **20.00 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.

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

FILE NAME: pw:\\hq-pwint01.ja-e.transyscorp.com:transyscorp-pw1\Documents\Projects\CH401 - Chicago\P401130061\40.0000\44.0000\44.0800\Contract 2\Sheet Files\23 Structural Sheets\TSC\Sheets\SN_056-NAW1 - Noise Abatement Wall\056NAW1-62J93-01S-BoringLog8.dgn

USER NAME = Mbeening	DESIGNED - TJA	REVISED -	
	DRAWN - TJA	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - MDS	REVISED -	
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 8
STRUCTURE NO. 056-NAW1
SHEET S6-15 OF S6-16 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	592
		CONTRACT NO. 61J93		
	ILLINOIS	FED. AID PROJECT		

Wang Engineering

wangeng@wangeng.com

Telephone:
Fax:

BORING LOG NB6-09

WEI Job No.: 790-77-01

Client: **TranSystems Corporation**
Project: **Randall Road Phase II Improvements**
Location: **McHenry County, IL**

Datum: NAVD88
Elevation: 882.59 ft
North: 2014071.86 ft
East: 983712.82 ft
Station: 2266+11.81
Offset: 73.61 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		15-inch thick, stiff (1.00P), black SILTY CLAY LOAM; damp						
	881.3	--TOPSOIL--						
		Medium stiff, brown CLAY LOAM; damp			1	4 5 3	0.90 B	23
		--RDR 2--						
	879.6							
		Very stiff, brown and gray SILTY CLAY LOAM to SILTY CLAY, little gravel; damp			2	3 3 5	2.87 B	15
		--RDR 2--	5					
					3	4 7 12	3.61 B	16
	874.6							
		Soft to stiff, brown and gray CLAY LOAM, trace to little gravel; moist			4	4 1 2	0.41 B	15
		--RDR 2--	10					
					5	3 3 5	1.50 P	14
	870.3							
		Brown, medium to coarse SAND, little gravel; saturated						
	868.8				6	7 6 8	NP	11
	868.6	Very stiff (2.25P), gray SILTY CLAY LOAM; damp						
		Medium dense, gray SANDY LOAM, little gravel; damp to moist	15					
	867.1				7	3 4 2	0.49 B	13
		Soft to medium stiff, brown to gray CLAY LOAM, trace gravel; damp to moist						
		--RDR 2--						
					8	4 4 5	0.50 P	13
			20					
	862.6	Boring terminated at 30.00 ft	30		9	3 3 3	1.07 B	13
					10	3 4 5	0.90 B	13
			25					
					11	4 4 6	0.66 B	14
					12	3 5 7	1.48 B	12
			35					
			40					

GENERAL NOTES

Begin Drilling: **04-13-2021** Complete Drilling: **04-13-2021**
Drilling Contractor: **Wang Testing Services** Drill Rig:
Driller: **J&M** Logger: **M. Sadowski** Checked by: **JAB**
Drilling Method: **2.25-inch IDA HSA, auto hammer, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **12.25 ft**
At Completion of Drilling: **18.00 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.

WANGENGINC 790701.GPJ WANGENG.GDT 3/8/23

Wang Engineering

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Fax:

BORING LOG NB6-10

WEI Job No.: 790-77-01

Client: **TranSystems Corporation**
Project: **Randall Road Phase II Improvements**
Location: **McHenry County, IL**

Datum: NAVD88
Elevation: 885.60 ft
North: 2014243.72 ft
East: 983710.94 ft
Station: 2267+86.02
Offset: 70.54 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		15-inch thick, dark brown SILTY CLAY; damp						
	884.4	--TOPSOIL--						
		Stiff to very stiff, brown and gray SILTY CLAY to SILTY CLAY LOAM, trace to little gravel; damp to moist			1	3 3 4	1.56 B	26
		--RDR 2--	5					
					2	4 5 6	2.13 B	15
					3	4 8 9	1.75 P	10
			10		4	5 6 6	1.97 B	10
					5	3 7 8	1.48 S	14
	870.9							
		Dense, brown LOAM, some gravel; saturated	15		6	6 10 12	3.36 B	10
		--RDR 2--						
	867.6				7	6 10 21	NP	9
		Medium dense, brown SILTY LOAM; saturated						
		--RDR 3--						
			20		8	4 5 6	NP	13
	865.1	Medium stiff to stiff, pinkish gray SILTY CLAY, trace gravel; moist			9	3 4 5	1.31 B	13
		--RDR 2--						
			25		10	4 4 5	0.90 B	14
					11	5 4 5	1.39 B	13
			30		12	3 4 5	0.98 B	13
					13	4 5 5	1.00 P	14
	850.6	Boring terminated at 35.00 ft	35		14	4 5 6	1.31 B	13
			40					

GENERAL NOTES

Begin Drilling: **04-23-2021** Complete Drilling: **04-23-2021**
Drilling Contractor: **Wang Testing Services** Drill Rig:
Driller: **J&M** Logger: **T. Rothschild** Checked by: **JAB**
Drilling Method: **2.25-inch IDA HSA, auto hammer, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **14.75 ft**
At Completion of Drilling: **19.75 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.

WANGENGINC 790701.GPJ WANGENG.GDT 3/8/23

Wang Engineering

wangeng@wangeng.com

Telephone:
Fax:

BORING LOG NB6-11

WEI Job No.: 790-77-01

Client: **TranSystems Corporation**
Project: **Randall Road Phase II Improvements**
Location: **McHenry County, IL**

Datum: NAVD88
Elevation: 899.50 ft
North: 2014467.58 ft
East: 983729.40 ft
Station: 2270+15.00
Offset: 76.02 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (recovery)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		12-inch thick, black SILTY CLAY LOAM; damp						
	898.5	--TOPSOIL--						
		Stiff, brown SILTY CLAY LOAM; trace gravel; damp			1	4 3 3	1.50 P	23
		--RDR 2--						
	896.5							
		Hard, brown SILTY CLAY; damp			2	5 6 7	4.00 P	20
		--RDR 2--	5					
					3	6 10 12	7.46 B	22
			10		4	5 7 9	7.22 B	22
	889.0	--slow hard drilling--						
		Soft to medium stiff, brown SANDY LOAM, little gravel; moist to wet			5	1 2 4	0.74 B	11
		--RDR 2-3--						
			15		6	2 3 3	0.41 B	10
	894.0							
		Stiff to very stiff, gray SILTY CLAY LOAM, little to some gravel; damp			7	9 11 9	1.64 B	12
		--RDR 2-3--						
		--rig chatter--						
		--4-inch thick, medium sand lens; wet--	20		8	8 12 10	2.25 P	12
	879.0	--rig chatter--						
		Medium dense, gray SILTY LOAM, little gravel; damp			9	11 11 7	NP	7
		--RDR 3--						
	876.5							
		Stiff, gray SILTY CLAY LOAM; damp to moist			10	3 4 6	1.57 B	13
		--RDR 2--	25					
	874.5	Boring terminated at 25.00 ft						
			30					
			35					
			40					

GENERAL NOTES

Begin Drilling: **04-05-2021** Complete Drilling: **04-05-2021**
Drilling Contractor: **Wang Testing Services** Drill Rig:
Driller: **J&M** Logger: **M. Sadowski** Checked by: **JAB**
Drilling Method: **3.25-inch IDA HSA, auto hammer, boring backfilled upon completion**

WATER LEVEL DATA

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

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

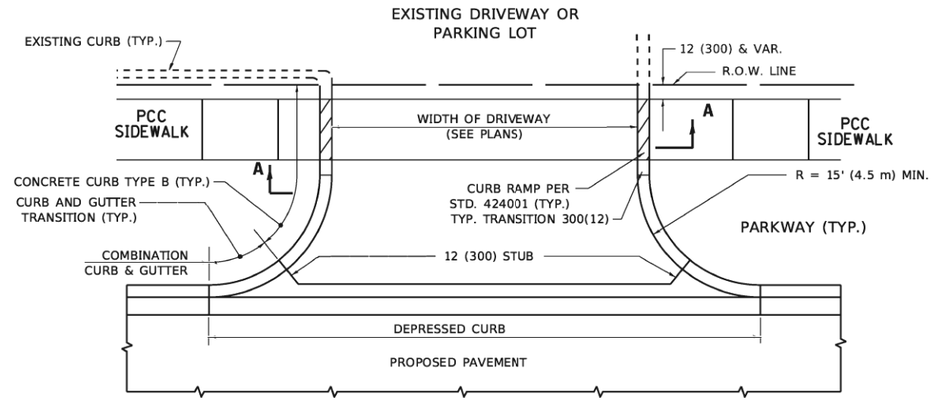
WANGENGINC 790701.GPJ WANGENG.GDT 3/8/23

TRANSYSTEMS
1475 EAST WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
(847) 605-9600

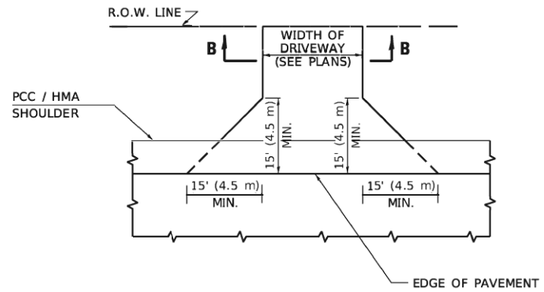
FILE NAME: pw:\\hq-siwin01.n-a.transystems.com:transystems-siw11Documents\Projects\CH401 - Chicago\P401130061\40.0000\44.0800\Contract 2\Sheet Files\23 Structural Sheets\TSCISheets\SN_056-NAW1 - Noise Abatement Wall\056NAW1-602-R3-01-BoringLog9.dgn

USER NAME = MIbeening	DESIGNED - TJA	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**BORING LOGS 9 STRUCTURE NO. 056-NAW1**	
	DRAWN - TJA	REVISED -			
PLOT SCALE = 2.0000 ' / in.	CHECKED - MDS	REVISED -			
PLOT DATE = 6/12/2024	DATE - 6/14/2024	REVISED -		SHEET S6-16 OF S6-16 SHEETS	

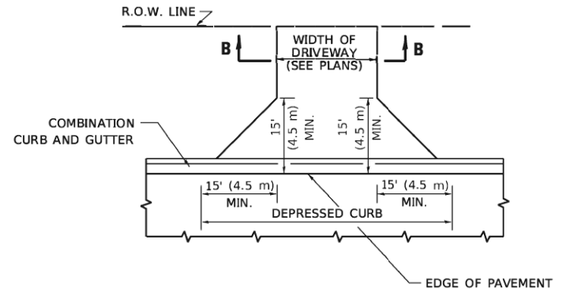
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	593
		CONTRACT NO. 61J93		
	ILLINOIS	FED. AID PROJECT		



WITH CONCRETE CURB, TYPE B



ADJACENT TO PCC /HMA SHOULDER



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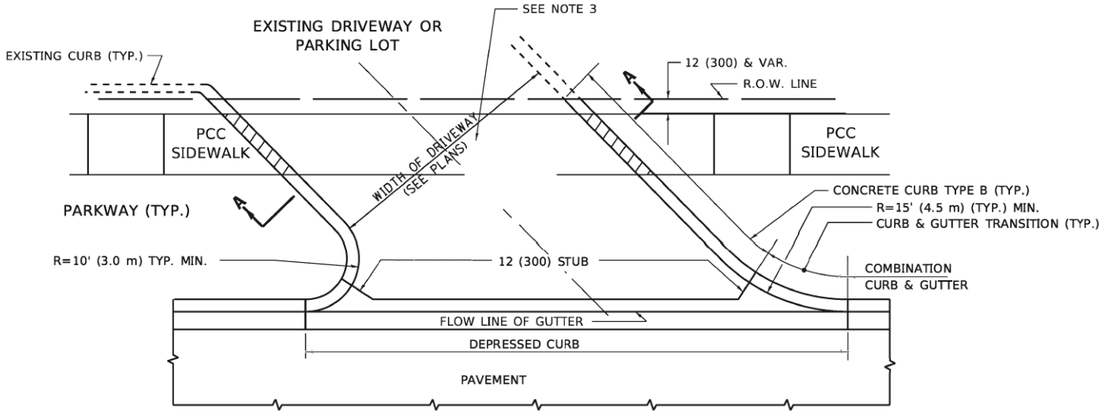
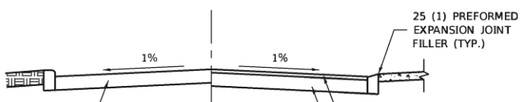


WITH CONCRETE CURB, TYPE B



SECTION A–A

RIGID DRIVEWAY

COMMERCIAL ENTRANCE (CE):
PCC DRIVEWAY PAVEMENT 8 (200)
MEASURED IN SQ. YD. (m^2)

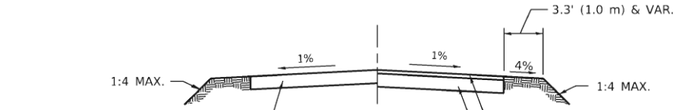
PRIVATE ENTRANCE (PE):
PCC DRIVEWAY PAVEMENT 6 (150
MEASURED IN SQ. YD. (m^2)

HMA DRIVEWAY

HMA SURFACE COURSE,
MIX "D", IL-9.5, N50 3 (75)
MEASURED IN TONS (METRIC TONS)

COMMERCIAL ENTRANCE (CE):
AGGREGATE BASE COURSE, TYPE B, 8 (200)
MEASURED IN SQ. YD. (SQ. M.)

PRIVATE ENTRANCE (PE):
AGGREGATE BASE COURSE, TYPE B, 6 (150)
MEASURED IN SQ. YD. (SQ. M.)



SECTION B–B

RIGID DRIVEWAY

COMMERCIAL ENTRANCE (CE):
PCC DRIVEWAY PAVEMENT 8 (200)

PRIVATE ENTRANCE (PE):
PCC DRIVEWAY PAVEMENT 6 (150)

HMA DRIVEWAY

HMA SURFACE COURSE,
MIX "D", IL-9.5, N50, 3 (75)
MEASURED IN TONS (METRIC TONS)

COMMERCIAL ENTRANCE (CE):
AGGREGATE BASE COURSE, TY B, 8 (200)
MEASURED IN SQ. YD. (m^2).

PRIVATE ENTRANCE (PE):
AGGREGATE BASE COURSE, TY B, 6 (150)
MEASURED IN SQ. YD. (m^2).

RURAL FIELD ENTRANCE (FE)

HMA SURFACE COURSE,
MIX "D", IL-95, N50, 2 (50)
MEASURED IN TONS (METRIC TONS)

AGGREGATE BASE COURSE, TYPE B, 8 (200)
MEASURED IN SQ. YD. (m^2).

GENERAL NOTES

1. 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.

2. 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.

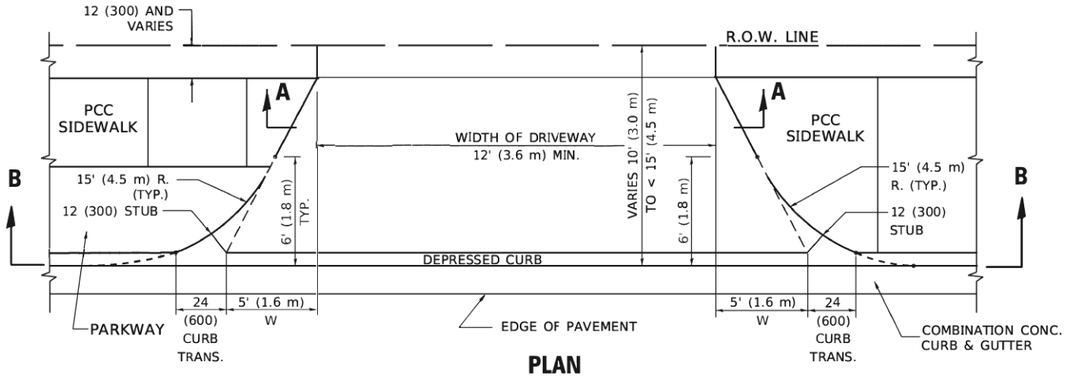
USER NAME	DESIGNED -	REVISED -	
$FN-D1-01	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

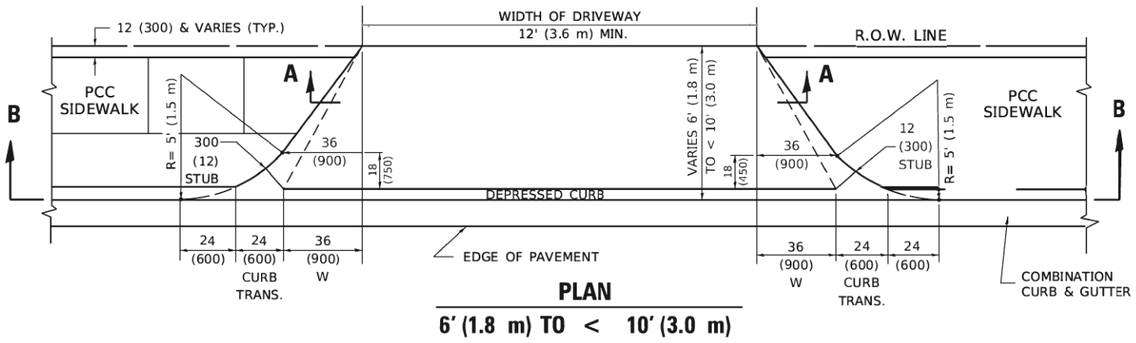
DRIVEWAY DETAILS – MCDOT

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	594
		CONTRACT NO. 61J93		
		ILLINOIS	FED. AID PROJECT	



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



PLAN
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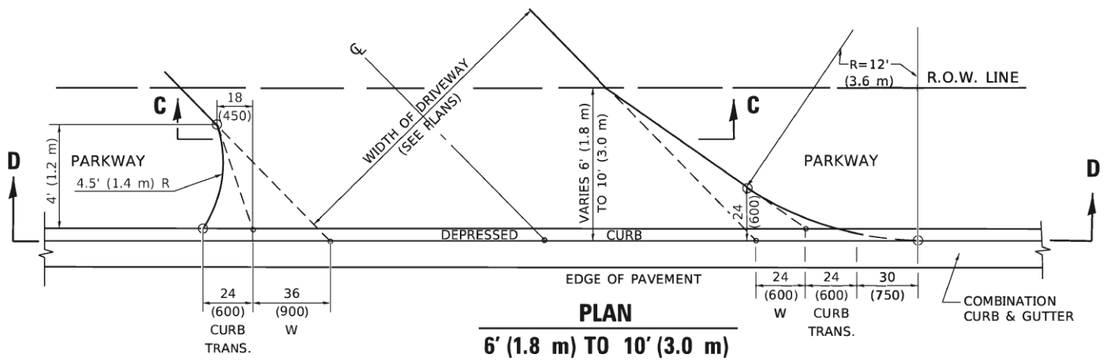
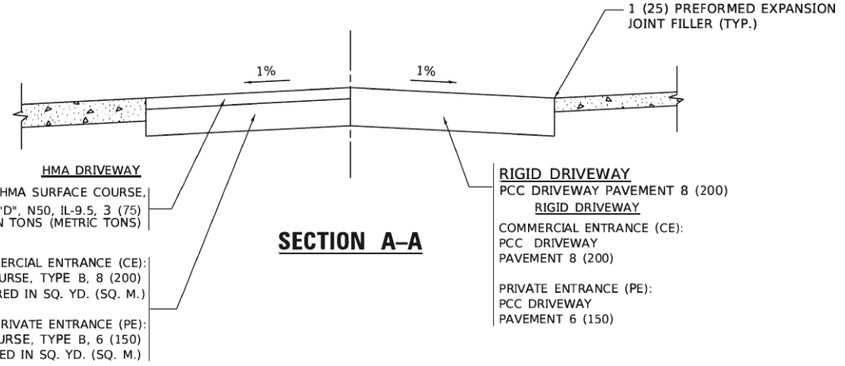
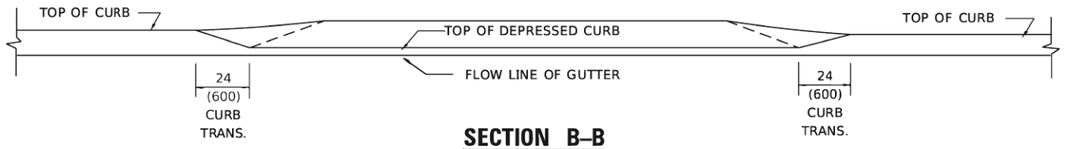


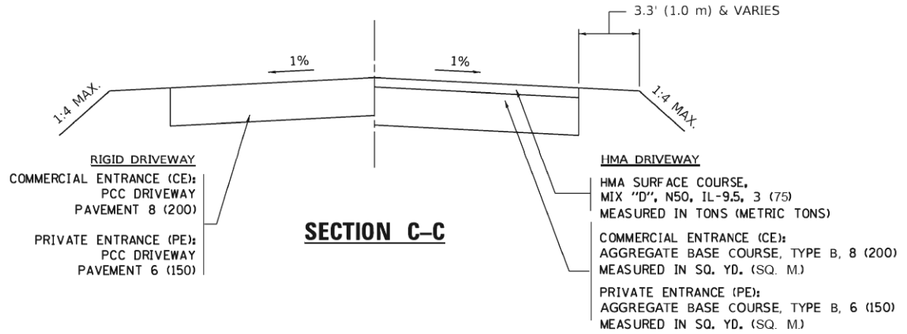
PLAN
6' (1.8 m) TO 10' (3.0 m)



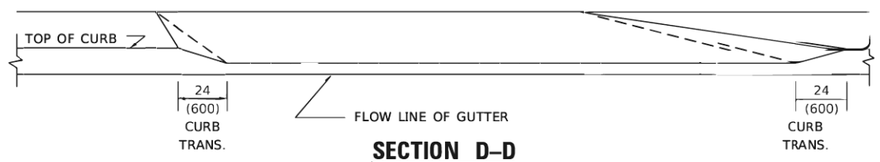
SECTION A–A



SECTION B–B



SECTION C–C



SECTION D–D

GENERAL NOTES

1. 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.
2. 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.
3. "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.

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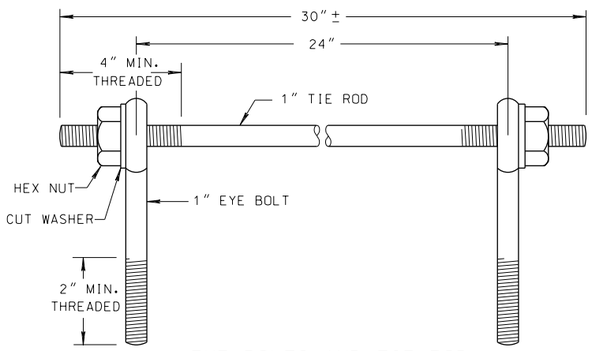
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE	DATE -	-	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

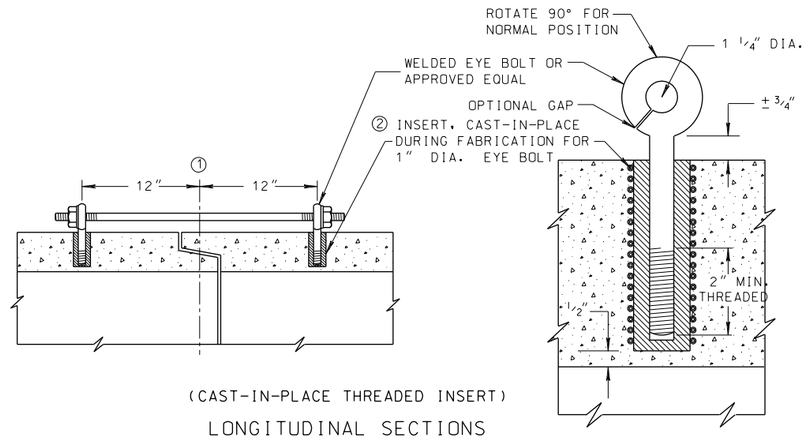
DRIVEWAY DETAILS - MCDOT
DISTANCE BETWEEN ROW AND FACE OF CURB < 15' (4.5m)

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	595
		CONTRACT NO. 61J93		
		ILLINOIS FED. AID PROJECT		



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS. JOINT TIES AND HARDWARE SHALL BE GALVANIZED STEEL.

CONCRETE CULVERT PIPE AND SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT THE LAST THREE JOINTS BEFORE A FLARED END SECTION

THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR CONCRETE PIPE.

UNLESS OTHERWISE STATED IN THE CONTRACT THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE CULVERT PIPE AS INDICTED ON THE PLANS AND BY THIS DETAIL WILL BE CONSIDERED INCLUDED IN THE COST OF PIPE CULVERTS OR STORM SEWERS.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR GALVANIZED STEEL JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

① ℄ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

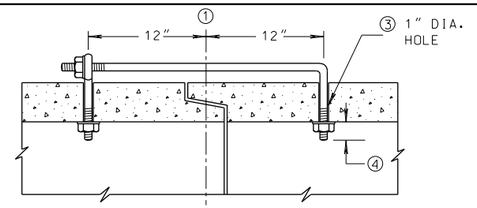
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12" FROM ℄ OF TONGUE AND GROOVE.

④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2".

⑤ OPENING TO BE ROD DIAMETER + 1 INCH.

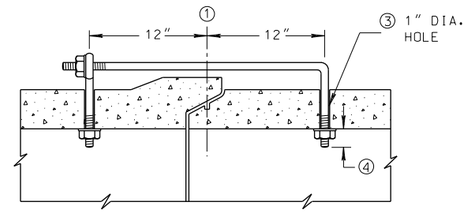
⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.



(TONGUE & GROOVE PIPE)

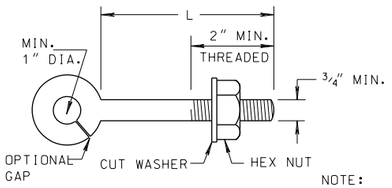
EYE BOLT DIMENSION TABLE

PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	

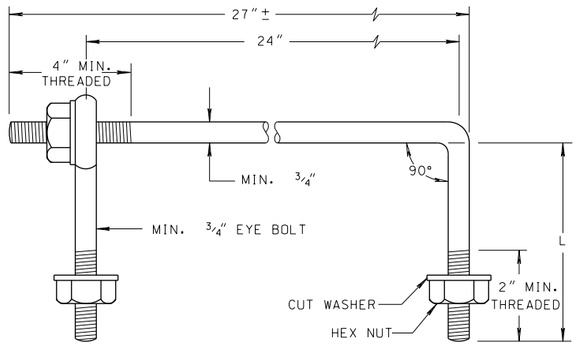


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION



EYE BOLT

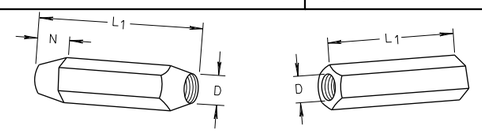


EYE BOLT AND TIE ROD

NOTE:
TWO EYE BOLTS MAY BE USED WITH A 30" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.

(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

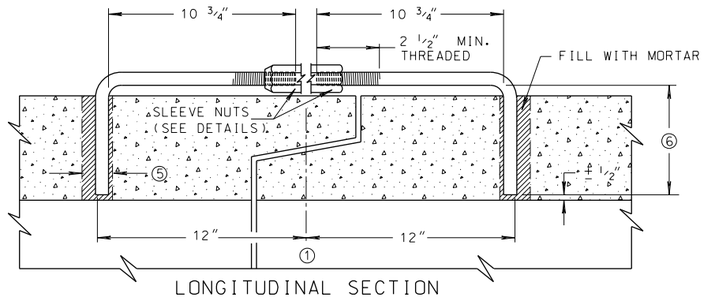
EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)



TAPERED PLAIN

RIGHT AND LEFT THREADS

SLEEVE NUTS



LONGITUDINAL SECTION

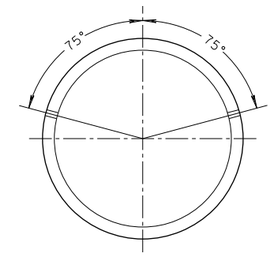
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)

ADJUSTABLE TIE ROD TABLE

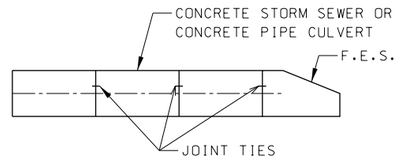
PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 7/16

DIMENSIONS SHOWN ARE IN INCHES



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



TYPICAL JOINT TIE LOCATIONS

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	DRAWN -	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/14/2024	DATE - 6/14/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOINT TIES FOR CONCRETE PIPE DETAIL

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	596
		CONTRACT NO. 61J93		
	ILLINOIS FED. AID PROJECT			

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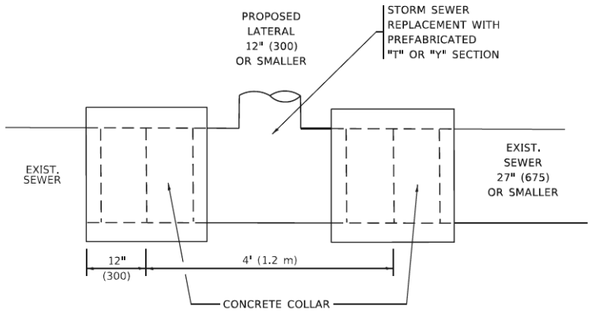
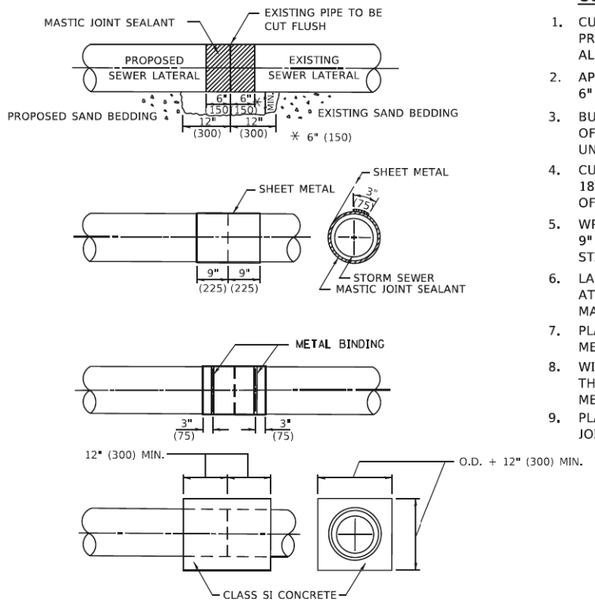


DETAIL "A"

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

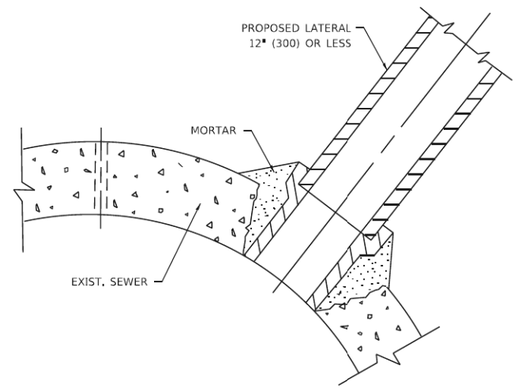


DETAIL "B"

CLASS SI CONCRETE COLLAR

CONSTRUCTION SEQUENCE

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



DETAIL "C"

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

NOTES:

MATERIAL

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

CONSTRUCTION METHODS

I. THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.

II. CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:
- A) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".
- B) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

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

GENERAL

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

BASIS OF PAYMENT

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

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

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PLOT SCALE = 100.0000 ' / in.
PLOT DATE = 11/18/2022

DESIGNED - M. DE YONG
DRAWN -
CHECKED -
DATE - 07-25-90

REVISED - R. SHAH 09-09-94
REVISED - R. SHAH 10-25-94
REVISED - R. SHAH 06-12-96
REVISED - K. SMITH 11-18-22

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF STORM SEWER
CONNECTION TO EXISTING SEWER

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

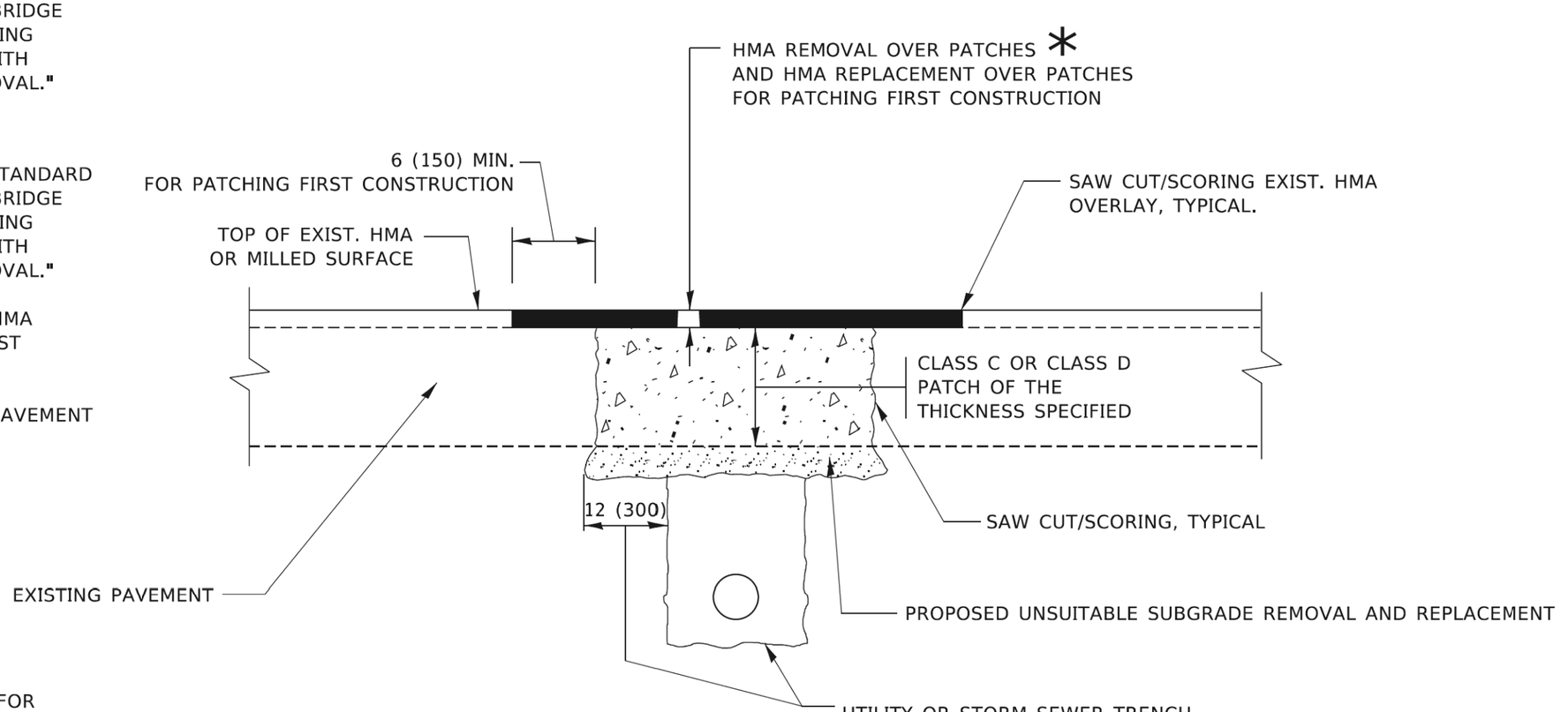
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	597
	BD500-01 (BD-07)	CONTRACT NO.	61J93	
	ILLINOIS FED. AID PROJECT			

METHOD OF MEASUREMENT

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

BASIS OF PAYMENT

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



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

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

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

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

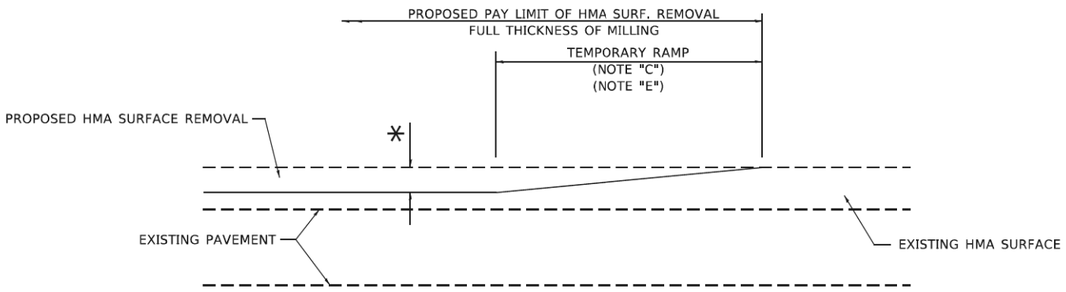
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

USER NAME = Lawrence,DeManche	DESIGNED - R. SHAH	REVISED - R. BORO 01-01-07	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED - R. BORO 09-04-07	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - K. ENG 10-27-08	
PLOT DATE = 11/18/2022	DATE - 10-25-94	REVISED - K. SMITH 11-18-22	

PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT

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

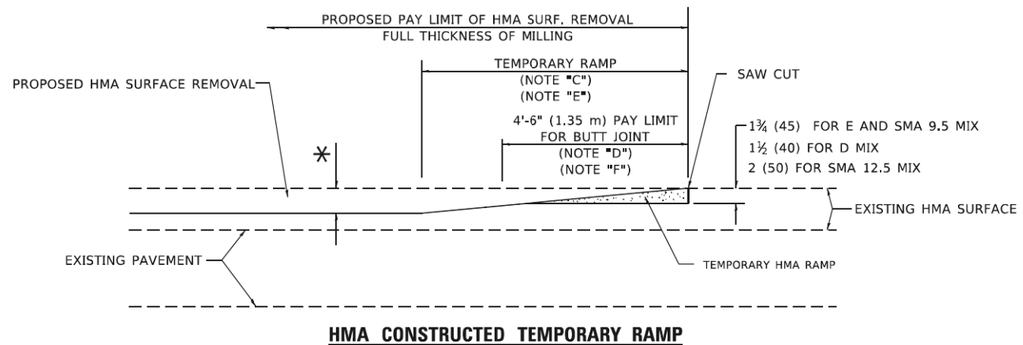
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	598
	BD400-04 (BD-22)	CONTRACT NO.	61J93	
	ILLINOIS FED. AID PROJECT			



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

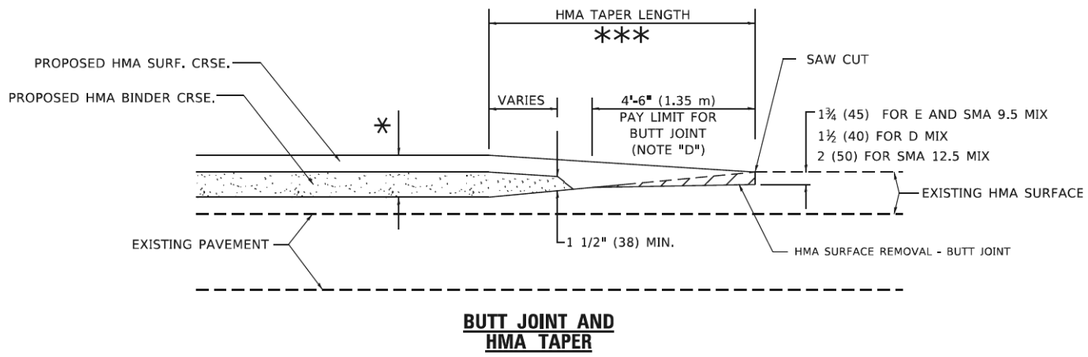


HMA CONSTRUCTED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

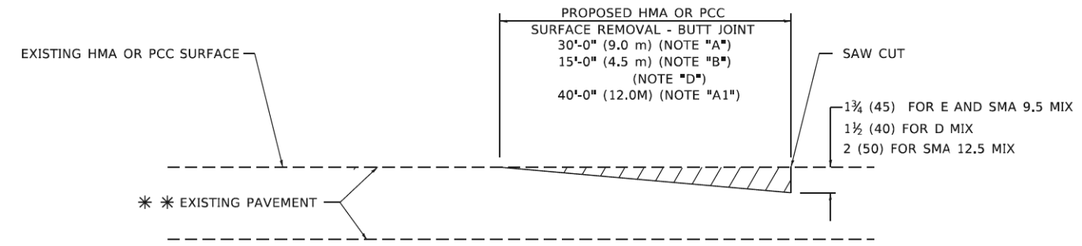
OPTION 2

TYPICAL TEMPORARY RAMP

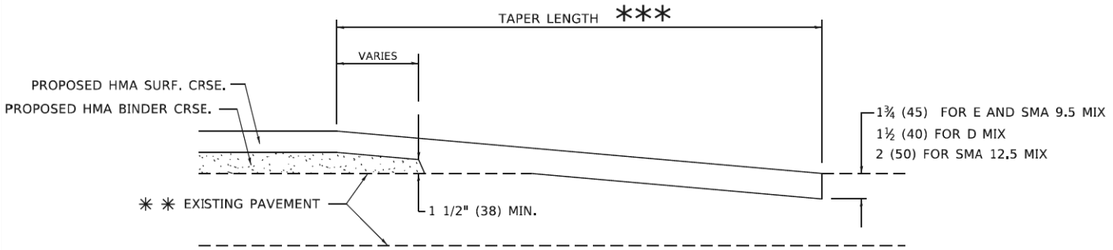


BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

GENERAL NOTES

A. MAINLINE ARTERIAL ROADWAYS AND MAJOR SIDE ROADS.

A1. INTERSTATES

B. MINOR SIDE ROADS.

C. THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.

D. THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.

E. TAPER THE TEMP. RAMP AT A RATE OF 3' - 4" (1.02m) PER 1 INCH (25 mm) OF MILLING THICKNESS.

* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

F. SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".

*** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT

1. THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".

2. THE TEMPORARY RAMP AND SAW CUT SHALL BE INCLUDED IN THE UNIT COST FOR HMA OR PCC SURFACE REMOVAL-BUTT JOINT.

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

USER NAME = Lawrence,DeManche	DESIGNED - M. DE YONG	REVISED - A. ABBAS 03-21-97	
	DRAWN -	REVISED - M. GOMEZ 04-06-01	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - R. BORO 01-01-07	
PLOT DATE = 11/18/2022	DATE - 06-13-90	REVISED - K. SMITH 11-18-22	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND HMA TAPER DETAILS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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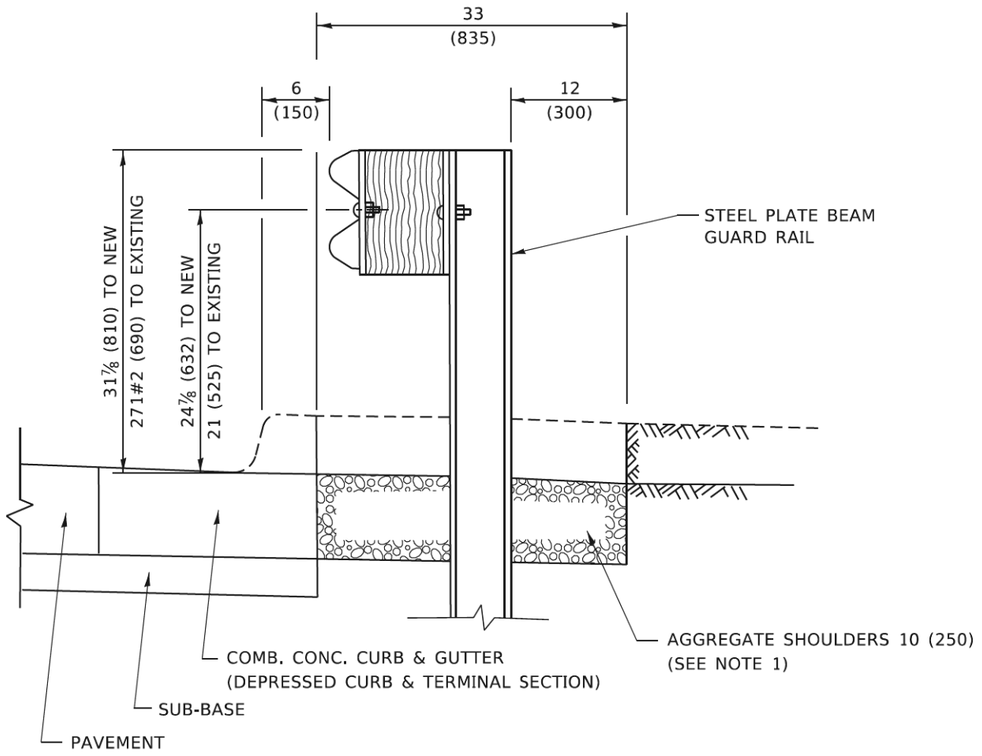
	BD400-05 BD-32	CONTRACT NO. 61J93		
	ILLINOIS FED. AID PROJECT			

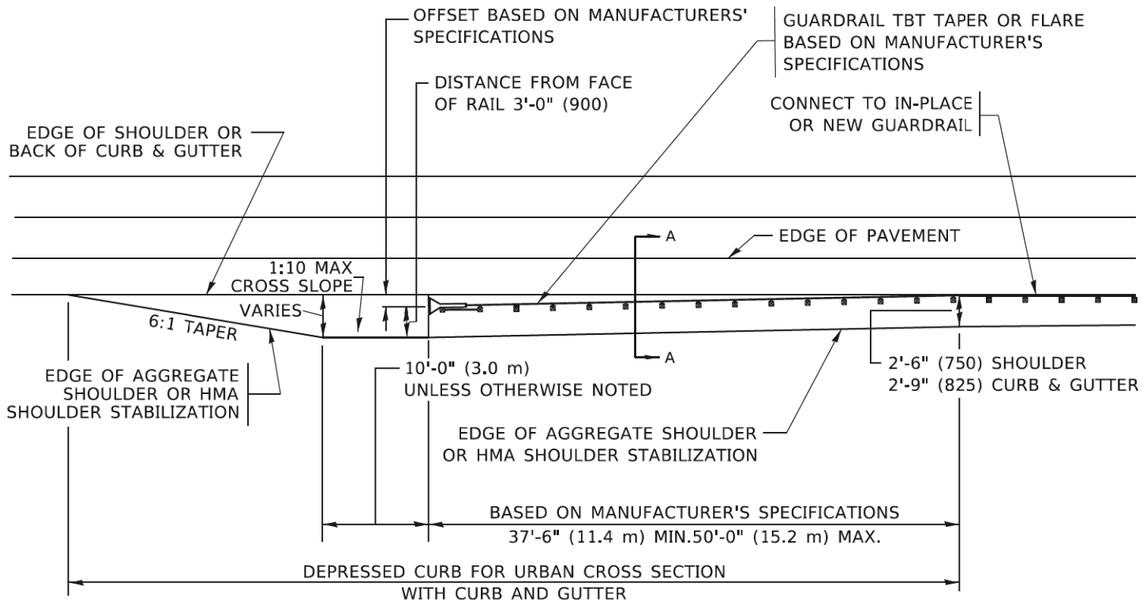


SECTION A–A

NOTES:

1. THE AGGREGATE SHOULDER, 10 (250) OR HMA SHOULDER, 6 (150) (IF REQUIRED) SHALL EXTEND UNDER THE TRAFFIC BARRIER TERMINAL.
2. "EXISTING" GUARDRAIL REFERS TO CONNECTING TERMINAL SECTION TO GUARD RAILING PRIOR TO THE MIDWEST GUARDRAIL SYSTEM.
3. THE CONTRACTOR SHALL VERIFY THE TYPE/HEIGHT OF GUARDRAIL IN-PLACE BEFORE ORDERING THE NEW TERMINAL SECTION. COST INCLUDED WITH THE COST OF THE TERMINAL. THE EXISTING GUARDRAIL HEIGHT SHALL TRANSISTION TO MATCH THE NEW TERMINAL END SECTION AND SHALL BE PAID FOR AS VERTICAL ADJUSTMENT OF EXISTING GUADRAIL.

DETAILS FOR STEEL PLATE BEAM GUARD RAIL ADJACENT TO CURB AND GUTTER [FOR ROADWAY SPEED 35 MPH (60 kmh) TO 45 MPH (70 kmh)]



DEPRESSED CURB AND GUTTER AND SHOULDER TREATMENT AT TBT TY. 1 SPL.

AGGREGATE SHOULDER, 10 (250) WILL BE PAID ACCORDING TO SECTION 481.

HMA SHOULDERS 6 (150) (IF REQUIRED) WILL BE PAID ACCORDING TO SECTION 482.

COMB. CONC. C&G, STEEL PLATE BEAM GUARD RAIL AND TRAFFIC BARRIER TERMINAL, OF THE TYPE SPECIFIED WILL BE PAID FOR SEPARATELY.

TBT = TRAFFIC BARRIER TERMINAL

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

MODEL: Default
FILE NAME: pw:\\dot-pw.bentley.com:dPWIDOT1\Documents\IDOT Offices\District 1\Projects\Dist1Sd22x34\ICADData\CADsheets\bd34.dgn

USER NAME = Lawrence.DeManche	DESIGNED - M. DE YONG	REVISED - R. BORO 09-14-2009	
	DRAWN -	REVISED - R. BORO 08-06-2012	
PLOT SCALE = 100.0000 ' / In.	CHECKED -	REVISED - R. BORO 05-08-2015	
PLOT DATE = 11/18/2022	DATE - 09-22-90	REVISED - K. SMITH 11-18-22	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS FOR DEPRESSED CURB & GUTTER AND SHOULDER TREATMENT AT TBT TY. 1 SPL.

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	06-00329-02-PW	MCHENRY	735	600
	BD600–10 (BD–34)	CONTRACT NO.	61J93	
	ILLINOIS FED. AID PROJECT			