

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	1
		ILLINOIS	CONTRACT NO. 46499	

EFFINGHAM, MACON, COLES, CLARK, LAWRENCE, & FAYETTE

D-7

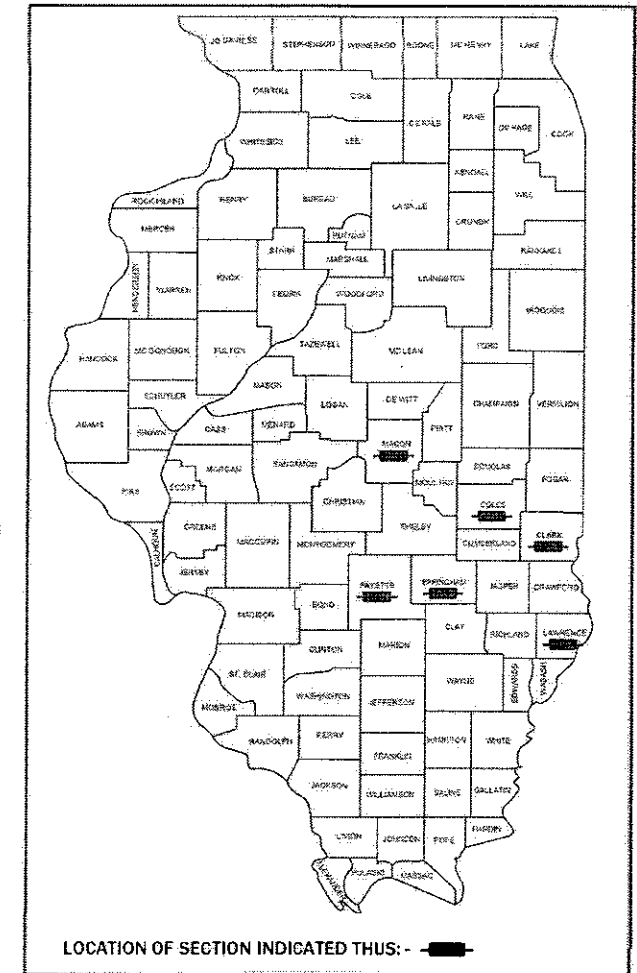
FOR INDEX OF SHEETS, SEE SHEET NO. 9

# PROPOSED HIGHWAY PLANS

## VARIOUS ROUTES SECTION D-7 OVD SIN STR REPL 19-04

## SIGN STRUCTURE REPLACEMENTS/REPAIRS VARIOUS COUNTIES

M-60-042-18



CLARK COUNTY LOCATION MAP  
F.A.I. 70 ON SHEET NO. 2

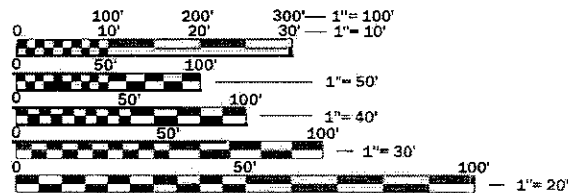
COLES COUNTY LOCATION MAP  
VARIOUS ROUTES ON SHEET NO. 3

EFFINGHAM COUNTY LOCATION MAP  
VARIOUS ROUTES ON SHEET NO. 4

FAYETTE COUNTY LOCATION MAP  
F.A.I. 70 ON SHEET NO. 5

LAWRENCE COUNTY LOCATION MAP  
U.S. 50 ON SHEET NO. 6

MACON COUNTY LOCATION MAP  
VARIOUS ROUTES ON SHEETS NO. 7 & 8



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

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

PROJECT ENGINEER: MATT WEIDNER  
PROJECT MANAGER: ROBERT GREUEL

CONTRACT NO. 46499

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 26, 2018  
Ag. Ellen REGIONAL ENGINEER

May 11, 2018  
Sean E. [Signature] ENGINEER OF DESIGN AND ENVIRONMENT

May 11, 2018  
Daniel P. [Signature] DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS



LOCATION #: 7-1  
 I-70 EB  
 STA. 44+50  
 SN 7S0121070R153.40  
 CLARK COUNTY

**LOCATION F.A.I. 70 (I-70)  
 CLARK COUNTY**



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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PROJECT LOCATION MAP  
 CLARK COUNTY**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	2
			CONTRACT NO.	46499
ILLINOIS				

LOCATION #: 7-6  
 IL 16 EB  
 STA. 101+55  
 SN 7M015S016R008.07  
 COLES COUNTY

LOCATION #: 7-7  
 FAI 57 SB  
 STA. 786+10  
 SN 7S015S016L189.5  
 COLES COUNTY

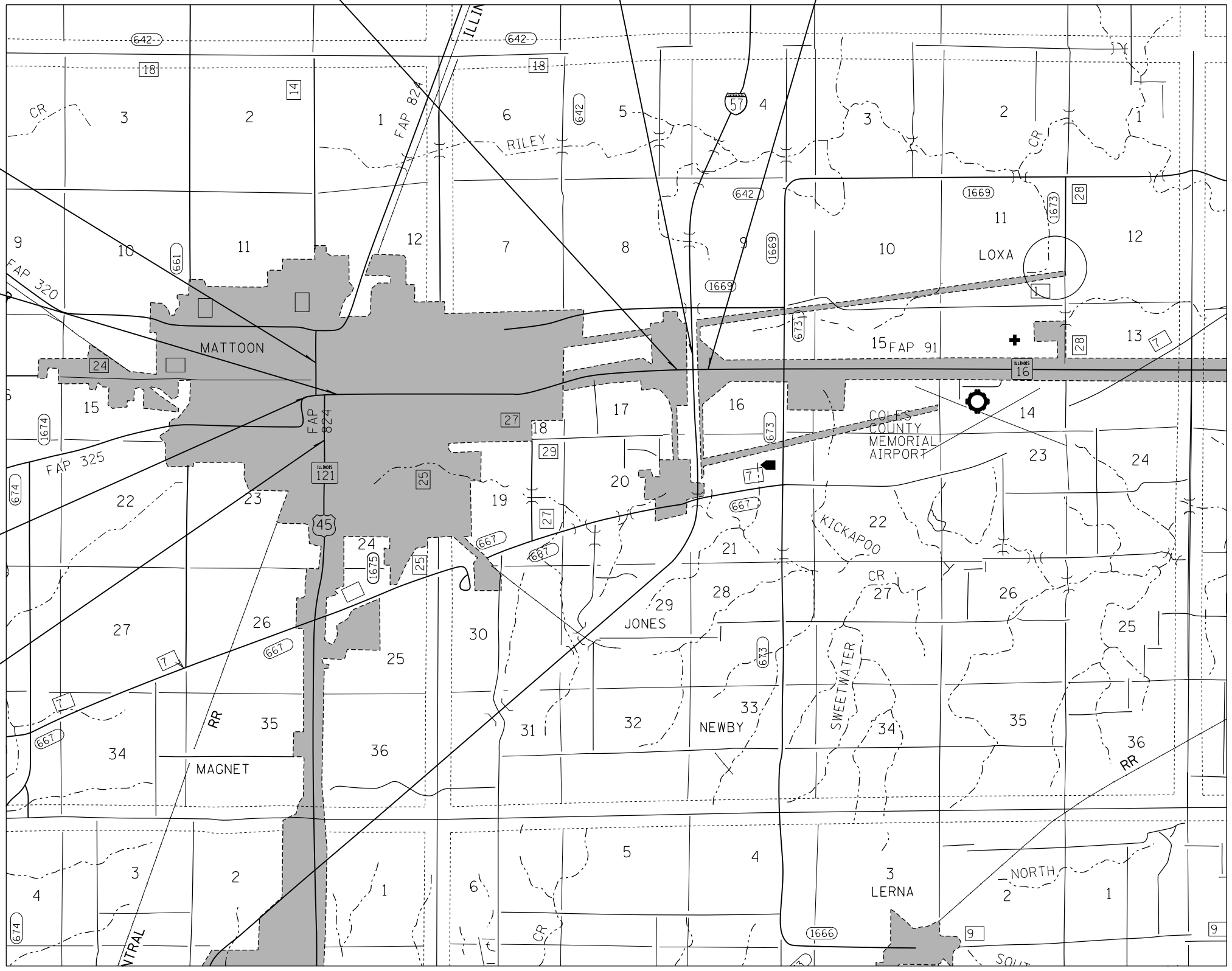
LOCATION #: 7-8  
 IL 16 WB  
 STA. 115+65  
 SN 7B015S016L189.61  
 COLES COUNTY

LOCATION #: 7-2  
 US 45/IL 121 SB  
 STA. 3+33.5  
 SN 7M015U045R006.20  
 COLES COUNTY

LOCATION #: 7-3  
 IL 16 WB  
 STA. 33+75  
 SN 7M015S016L005.41  
 COLES COUNTY

LOCATION #: 7-4  
 IL 16 EB  
 STA. 24+80  
 SN 7M015S016R005.24  
 COLES COUNTY

LOCATION #: 7-5  
 US 45/IL 121 NB  
 STA. 43+23  
 SN 7M015U045L011.94  
 COLES COUNTY



**VARIOUS ROUTES  
 COLES COUNTY**



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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>PROJECT LOCATION MAP    COLES COUNTY</b>	
SCALE:	SHEET OF SHEETS STA. TO STA.

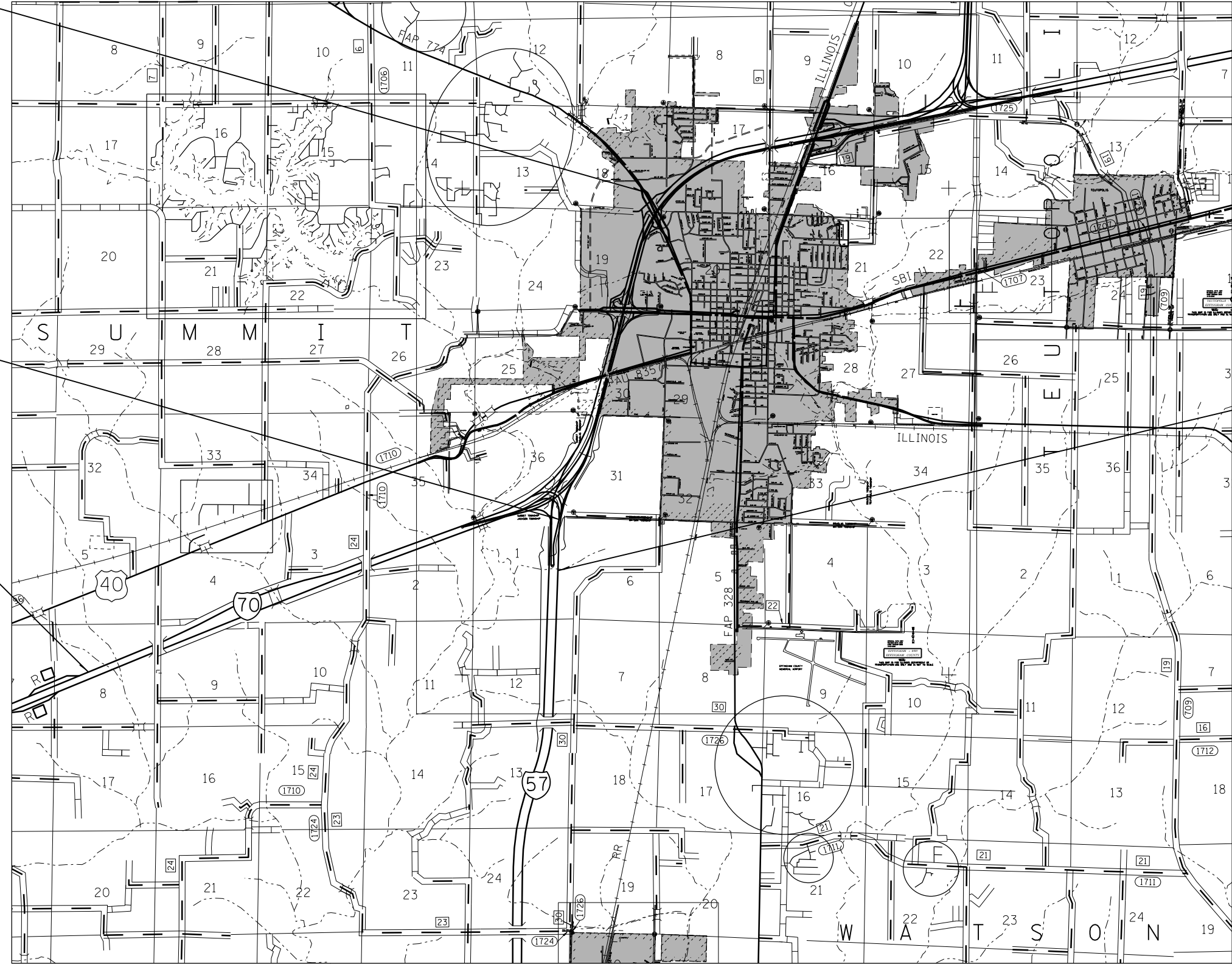
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VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	3
CONTRACT NO.			46499	
ILLINOIS				

LOCATION #: 7-9  
 IL 32/IL 33 SB  
 STA. 1187+15  
 SN 7C025S032L001.20  
 EFFINGHAM COUNTY

LOCATION #: 7-10  
 FAI 57 NB  
 STA. 5021+35  
 SN 7S025I057R157.3  
 EFFINGHAM COUNTY

LOCATION #: 7-11  
 FAI 70 WB  
 STA. 1785+46  
 SN 7C025I070L087.2  
 EFFINGHAM COUNTY

LOCATION #: 7-12  
 FAI 57 NB  
 STA. 4997+97  
 SN 7S025I057R156.8  
 EFFINGHAM COUNTY



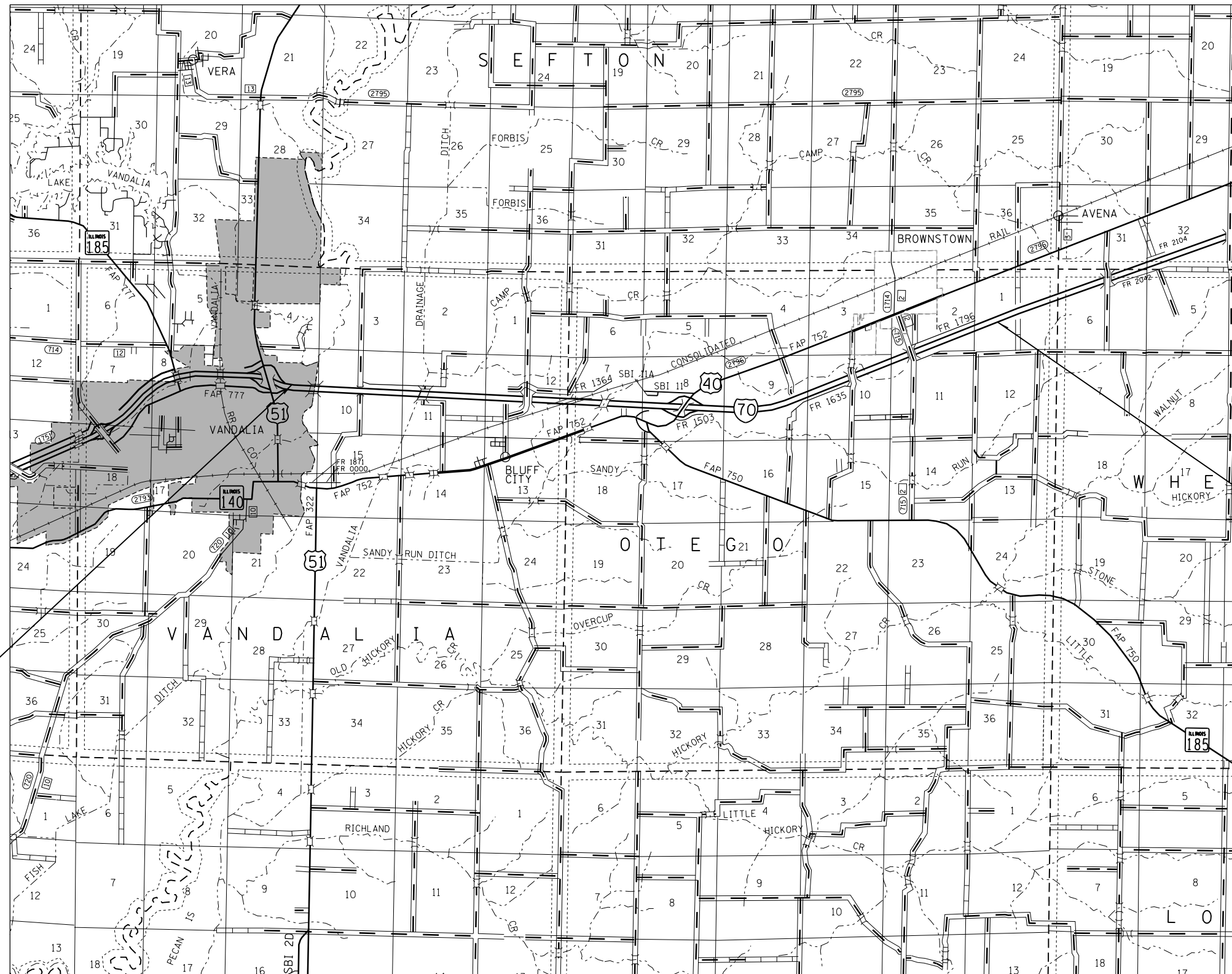
**LOCATION F.A.I. 70 (I-70), F.A.I. 57 (I-57), & IL 32/IL 33**  
**EFFINGHAM COUNTY**

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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>PROJECT LOCATION MAP</b>		<b>EFFINGHAM COUNTY</b>	
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	4
			CONTRACT NO.	46499



LOCATION # 7-13  
 I-70 WB  
 STA. 525+42  
 SN 7C0261070L063.10  
 FAYETTE COUNTY

LOCATION # 7-14  
 I-70 EB  
 STA. 874+07  
 SN 7C0261070R071.60  
 FAYETTE COUNTY

**LOCATION F.A.I. 70 (I-70)**  
**FAYETTE COUNTY**



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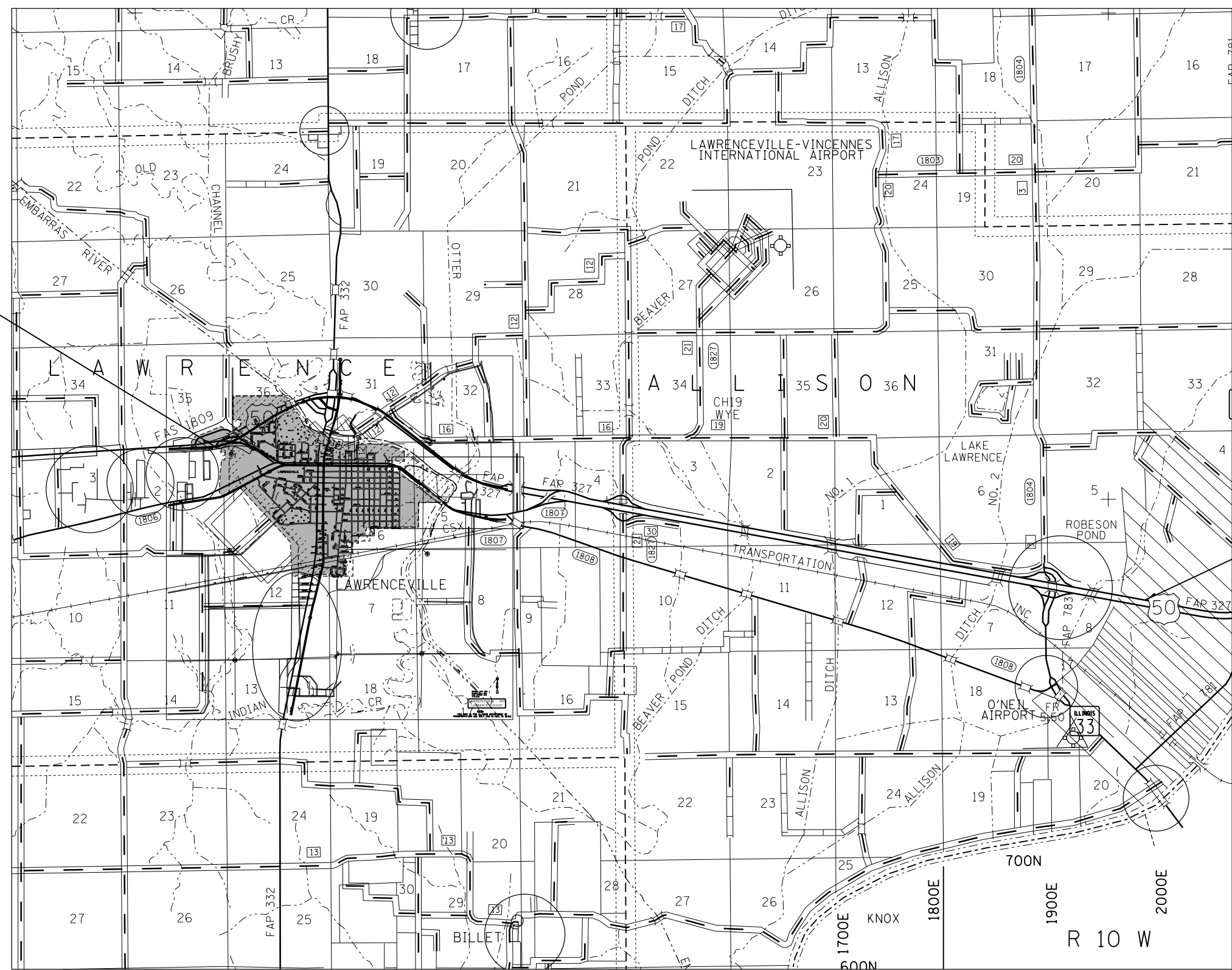
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PROJECT LOCATION MAP**  
**FAYETTE COUNTY**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	5
			CONTRACT NO.	46499
ILLINOIS				

LOCATION #: 7-15  
 US 50 EB  
 STA. 1512+25  
 SN 7S051U050R011.10  
 LAWRENCE COUNTY



LOCATION #: 7-16  
 US 50 WB  
 STA. 1044+85  
 SN 7C051U050L021.10  
 LAWRENCE COUNTY

**LOCATION U.S. 50  
 LAWRENCE COUNTY**



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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PROJECT LOCATION MAP  
 LAWRENCE COUNTY**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	6
			CONTRACT NO.	46499
ILLINOIS				

LOCATION #: 7-17  
US 36 WB  
STA. 637+17  
SN 7S058U036L031.5  
MACON COUNTY

LOCATION #: 7-18  
I-72 WB  
STA. 324+15  
SN 7S058I072L134.3  
MACON COUNTY

LOCATION #: 7-19  
US 36 WB  
STA. 610+80  
SN 7S058U036L031.0  
MACON COUNTY

LOCATION #: 7-20  
FAI 72 WB  
STA. 297+85  
SN 7S058I072L133.8  
MACON COUNTY

LOCATION #: 7-21  
US 36 WB  
STA. 384+90  
SN 7C058U036L030.5  
MACON COUNTY

LOCATION #: 7-22  
US 36 EB  
STA. 567+35  
SN 7S058U036R030.2  
MACON COUNTY

LOCATION #: 7-23  
US 51 SB  
STA. 881+85  
SN 7S058U051L010.65  
MACON COUNTY

LOCATION #: 7-24  
US 51 NB  
STA. 776+90  
SN 7C058U051R010.98  
MACON COUNTY

LOCATION #: 7-25  
US 51 SB  
STA. 1170+10  
SN 7C058U051L009.8  
MACON COUNTY

LOCATION #: 7-26  
I-72 WB  
STA. 772+88  
SN 7C058I072L152.9  
MACON COUNTY

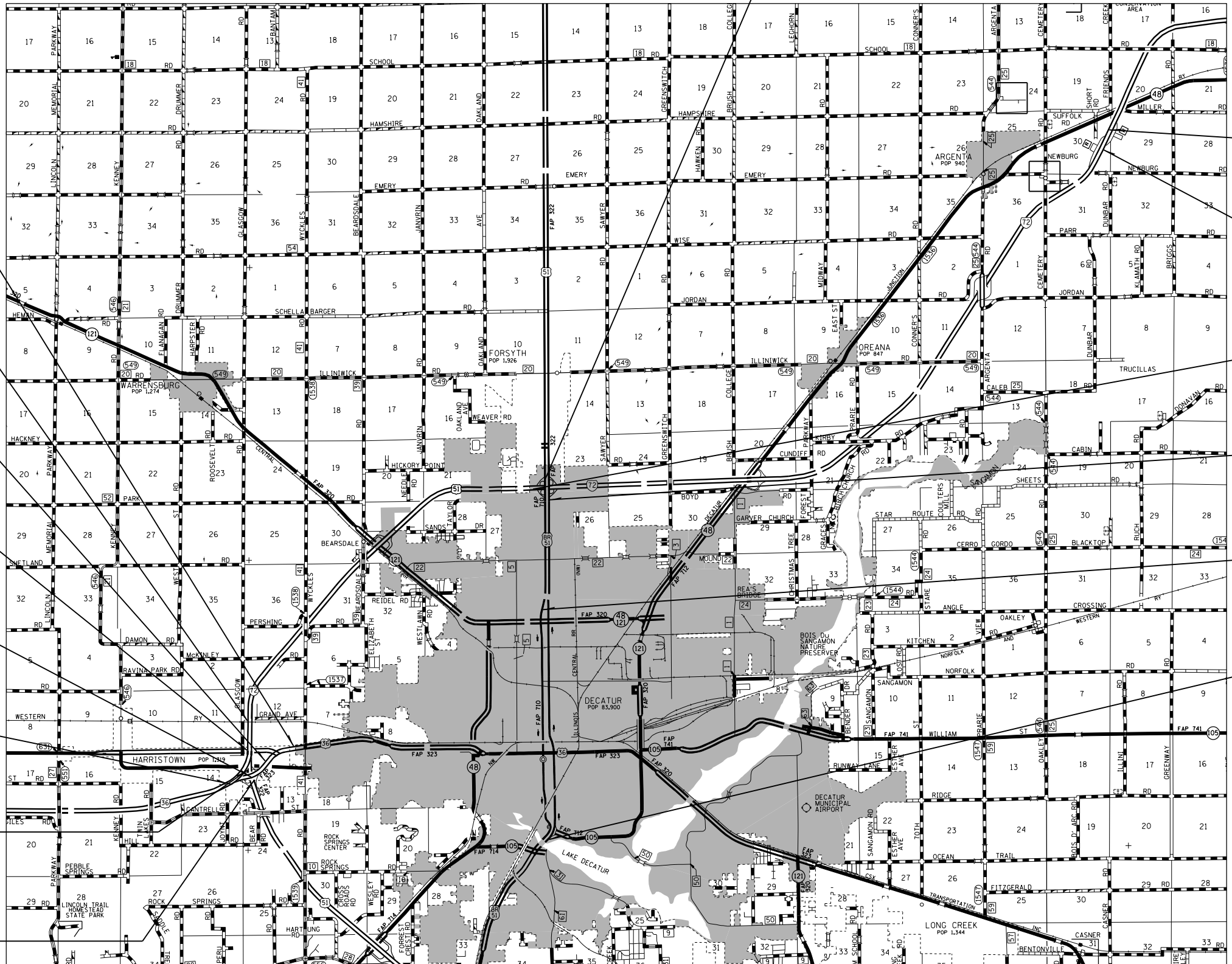
LOCATION #: 7-27  
I-72 EB  
STA. 767+10  
SN 7C058I072R152.77  
MACON COUNTY

LOCATION #: 7-28  
I-72 EB  
STA. 137+88  
SN 7S058I072R140.8  
MACON COUNTY

LOCATION #: 7-29  
BUS 51 NB  
STA. 1139+95  
SN 7C058B051R000.41  
MACON COUNTY

LOCATION #: 7-30  
BUS 51 SB  
STA. 374+00  
SN 7M058B051R002.18  
MACON COUNTY

LOCATION #: 7-31  
BUS 51 NB  
STA. 660+69  
SN 7M058B051L005.72  
MACON COUNTY



**VARIOUS ROUTES  
MACON COUNTY**

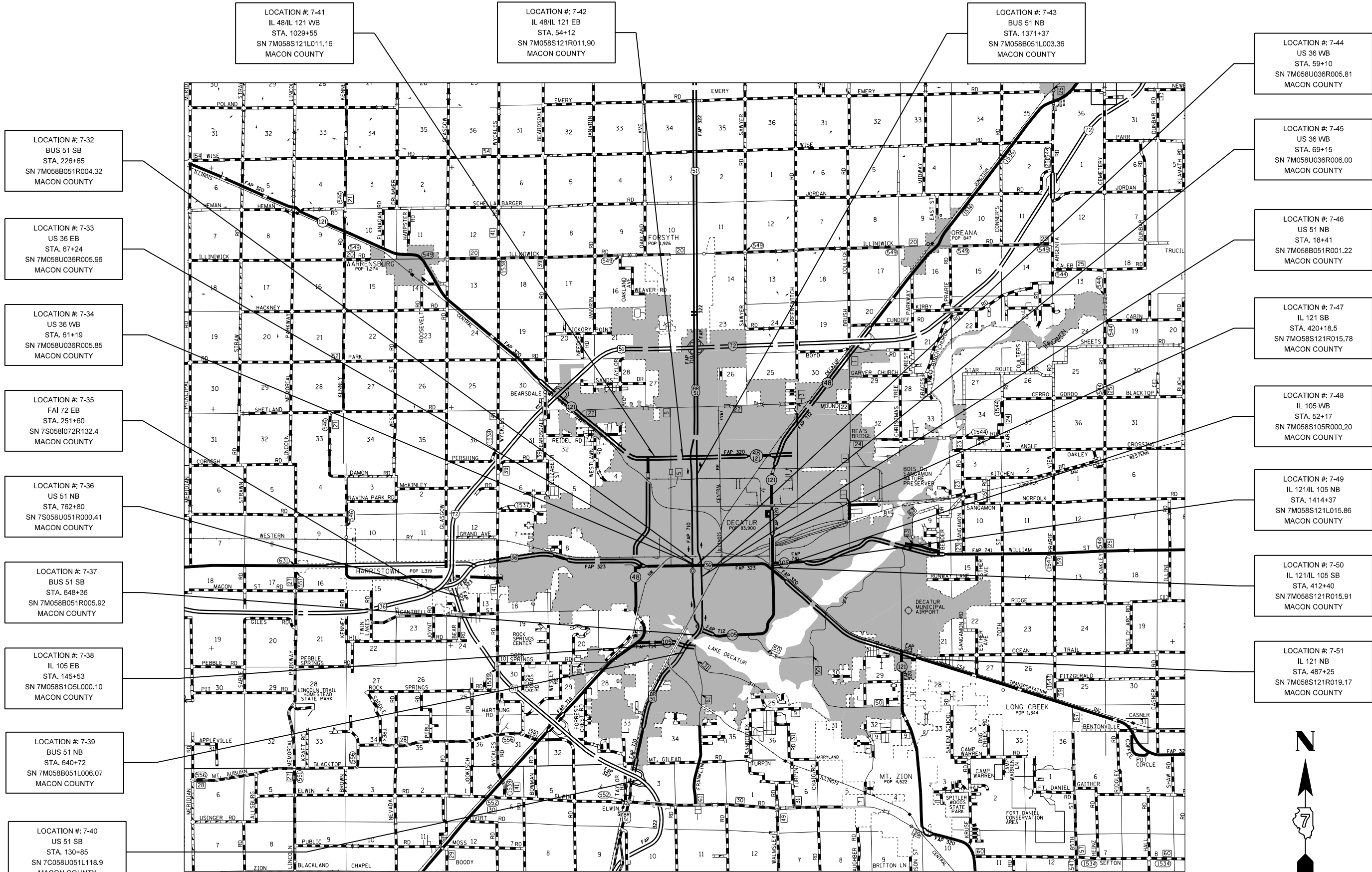


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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>PROJECT LOCATION MAP MACON COUNTY</b>	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	7
			CONTRACT NO.	46499
ILLINOIS				



LOCATION #: 7-32  
BUS 51 SB  
STA. 226+65  
SN 7M058B051R004.32  
MACON COUNTY

LOCATION #: 7-33  
US 36 EB  
STA. 67+24  
SN 7M058U036R005.96  
MACON COUNTY

LOCATION #: 7-34  
US 36 WB  
STA. 61+19  
SN 7M058U036R005.85  
MACON COUNTY

LOCATION #: 7-35  
FAI 72 EB  
STA. 251+60  
SN 7S058I072R132.4  
MACON COUNTY

LOCATION #: 7-36  
US 51 NB  
STA. 762+80  
SN 7S058U051R000.41  
MACON COUNTY

LOCATION #: 7-37  
BUS 51 SB  
STA. 648+36  
SN 7M058B051R005.92  
MACON COUNTY

LOCATION #: 7-38  
IL 105 EB  
STA. 145+53  
SN 7M058S105L000.10  
MACON COUNTY

LOCATION #: 7-39  
BUS 51 NB  
STA. 640+72  
SN 7M058B051L006.07  
MACON COUNTY

LOCATION #: 7-40  
US 51 SB  
STA. 130+85  
SN 7C058U051L118.9  
MACON COUNTY

LOCATION #: 7-41  
IL 48/IL 121 WB  
STA. 1029+55  
SN 7M058S121L011.16  
MACON COUNTY

LOCATION #: 7-42  
IL 48/IL 121 EB  
STA. 54+12  
SN 7M058S121R011.90  
MACON COUNTY

LOCATION #: 7-43  
BUS 51 NB  
STA. 1371+37  
SN 7M058B051L003.36  
MACON COUNTY

LOCATION #: 7-44  
US 36 WB  
STA. 59+10  
SN 7M058U036R005.81  
MACON COUNTY

LOCATION #: 7-45  
US 36 WB  
STA. 69+15  
SN 7M058U036R006.00  
MACON COUNTY

LOCATION #: 7-46  
US 51 NB  
STA. 18+41  
SN 7M058B051R001.22  
MACON COUNTY

LOCATION #: 7-47  
IL 121 SB  
STA. 420+18.5  
SN 7M058S121R015.78  
MACON COUNTY

LOCATION #: 7-48  
IL 105 WB  
STA. 52+17  
SN 7M058S105R000.20  
MACON COUNTY

LOCATION #: 7-49  
IL 121/IL 105 NB  
STA. 1414+37  
SN 7M058S121L015.86  
MACON COUNTY

LOCATION #: 7-50  
IL 121/IL 105 SB  
STA. 412+40  
SN 7M058S121R015.91  
MACON COUNTY

LOCATION #: 7-51  
IL 121 NB  
STA. 487+25  
SN 7M058S121R019.17  
MACON COUNTY

**VARIOUS ROUTES  
MACON COUNTY**



FILE NAME =	USER NAME = stleffnik	DESIGNED -	REVISED -	<p align="center"><b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b></p> <p align="center"><b>PROJECT LOCATION MAP MACON COUNTY</b></p>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE = 100,0000' / in.		DATE -	REVISED -		CONTRACT NO. 46499				
Default		PLOT DATE = 3/15/2018	REVISED -		SCALE:	SHEET	OF SHEETS	STA.	TO STA.



## INDEX OF SHEETS

SHEET NO.	ITEM
1	COVER SHEET
2-8	LOCATION MAPS
9	INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES
10-12	SUMMARY OF QUANTITIES
13-19	SCHEDULE OF QUANTITIES
20-48	SIGN STRUCTURE DETAILS
49	GUARDRAIL PLAN SHEET
50-82	SOIL BORING LOG SHEETS

THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED AFTER SHEET NO. 82

STD. NO.	DESCRIPTION
630001-12	STEEL PLATE GUARDRAIL
630301-08	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINAL
631011-10	TRAFFIC BARRIER TERMINAL, TYPE 2
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701400-09	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-11	LANE CLOSURE, FREEWAY/EXPRESSWAY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS >= 45 MPH
701451-05	RAMP CLOSURE FREEWAY/EXPRESSWAY
701456-05	PARTIAL EXIT RAMP CLOSURE FREEWAY/EXPRESSWAY
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-07	TRAFFIC CONTROL DEVICES
720021-02	SIGN PANELS EXTRUDED ALUMINUM TYPE
725001-01	OBJECT AND TERMINAL MARKERS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

## GENERAL NOTES

PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING STRUCTURE HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY DIMENSIONS AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIAL. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK. THE CONTRACTOR WILL BE PAID FOR THE QUANTITY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING IDOT ELECTRICAL FACILITIES AT HIS /HER OWN EXPENSE IF REQUIRED. THE CONTRACTOR SHALL ALSO BE LIABLE FOR ANY DAMAGE TO IDOT FACILITIES RESULTING FROM INACCURATE LOCATING.

ALL DISTURBED AREAS SHALL REQUIRE RESHAPING AND SEEDING, CLASS 2. THE SEEDING AND RESHAPING SHALL BE INCLUDED IN THE COST OF DRILLED SHAFT CONCRETE FOUNDATIONS.

REMOVAL AND REPLACEMENT OF EXISTING SIDEWALK, PAVEMENT, AND ISLANDS DAMAGED DUE TO CONTRACTOR OPERATIONS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT BID PRICE FOR THE REMOVAL OR REPLACEMENT OF SIGN STRUCTURES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY MOWING, BRUSH AND SHRUB REMOVAL, AND SHALL DISPOSE OF ALL REMOVED ITEMS OFF OF THE JOB SITE. THE COST OF THIS WORK SHALL BE INCLUDED IN THE BID PRICE FOR THE REMOVAL OR REPLACEMENT OF SIGN STRUCTURES.

SIGNS FOR 7S058I072L134.3 ARE STORED AT THE DECATUR MAINTENANCE YARD. THE CONTRACTOR WILL BE RESPONSIBLE FOR TRANSPORTING THESE SIGNS OUT TO JOB SITE. THE COST SHALL BE INCLUDED IN THE CONTRACT BID PRICE FOR INSTALL SIGN PANEL-TYPE 1, TYPE 2, AND TYPE 3. CONTACT THE DECATUR MAINTENANCE YARD 48 HOURS IN ADVANCE OF PICKING UP THE SIGNS (217) 875-4181.

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, HIGHWAY STANDARDS  
GENERAL NOTES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	9
ILLINOIS			CONTRACT NO. 46499	

ILLINOIS DEPARTMENT OF TRANSPORTATION SUMMARY OF QUANTITIES			100% STATE TOTAL QUANTITIES	VARIOUS COUNTIES					
CODE NO	ITEM	UNIT		CONSTRUCTION TYPE CODE 0044					
				CLARK	COLES	EFFINGHAM	FAYETTE	LAWRENCE	MACON
* 6300001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	225						225
* 6310045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	3						3
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	3						3
67100100	MOBILIZATION	L SUM	1	0.1	0.1	0.2	0.2	0.2	0.2
72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	3						3
73300100	OVERHEAD SIGN STRUCTURE - SPAN, TYPE I-A (4' -0" X 4' -6")	FOOT	505		80				425
73300300	OVERHEAD SIGN STRUCTURE - SPAN, TYPE III-A (5' -0" X 7' -0")	FOOT	440			110		110	220
73301810	OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	FOOT	470.5		61	44.5		42	323
73301840	OVERHEAD SIGN STRUCTURE WALKWAY, CANTILEVER, TYPE A	FOOT	188		18			16	154
73302170	OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE II-C-A (36" X 5' -6")	FOOT	28		28				

\* SPECIALTY ITEM

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PLOT DATE = 3/15/2018	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	10
CONTRACT NO. 46499			ILLINOIS FED. AID PROJECT	

ILLINOIS DEPARTMENT OF TRANSPORTATION SUMMARY OF QUANTITIES			100% STATE TOTAL QUANTITIES	VARIOUS COUNTIES					
CODE NO	ITEM	UNIT		CONSTRUCTION TYPE CODE 0044					
				CLARK	COLES	EFFINGHAM	FAYETTE	LAWRENCE	MACON
73302210	OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE III-C-A (36" X 7' -0")	FOOT	289			35			254
73400200	DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	312.41		28.5	37.9		21.9	224.11
73600100	REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	10		1	1		1	7
73600200	REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	8		1	1			6
73600500	REMOVE OVERHEAD SIGN STRUCTURE - MONOTUBE	EACH	2						2
73700300	REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	41		3	3		4	31
78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	12						12
X0325265	REMOVE ELECTRIC SERVICE	EACH	16		2	2		1	11
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	0.1	0.2	0.2	0.1	0.2	0.2
X7200075	REMOVE AND REINSTALL SIGN PANEL	SO FT	4504.75		496	486.5		439.25	3083
X7200085	REPLACE AND TIGHTEN SIGN MOUNTING CLIPS PER EACH SIGN	EACH	2						2
X7230100	INSTALL SIGN PANEL - TYPE 1	SO FT	6.2						6.2
X7230200	INSTALL SIGN PANEL - TYPE 2	SO FT	26						26

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USER NAME = steffenmk	DESIGNED - ROBERT GREUEL	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/15/2018	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**  
 SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	11
ILLINOIS FED. AID PROJECT			CONTRACT NO. 46499	

ILLINOIS DEPARTMENT OF TRANSPORTATION				VARIOUS COUNTIES					
SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE 0044					
CODE NO	ITEM	UNIT	100% STATE TOTAL QUANTITIES	CLARK	COLES	EFFINGHAM	FAYETTE	LAWRENCE	MACON
X7230203	INSTALL SIGN PANEL - TYPE 3	SO FT	474.5						474.5
X7330070	OVERHEAD SIGN SUPPORT GROUT REPAIR	EACH	48		8	5	2	1	32
X7330090	METAL SCREEN	EACH	51		8	5	2	1	35
Z0010487	CLEANING AND PAINTING SIGN STRUCTURE NO. 8	L SUM	1	1					
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.1	0.2	0.2	0.1	0.2	0.2
Z0052395	TIGHTEN U-BOLT	EACH	1	1					

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USER NAME = greuelrj	DESIGNED - ROEBERT GREUEL	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000" / in.	CHECKED -	REVISED -
PLOT DATE = 3/22/2018	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES  
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIGN STR REPL 19-04	VARIOUS	82	12
				CONTRACT NO. 46499

ILLINOIS FED. AID PROJECT

LOCATION NO. :		7-1	STATE I.D. NO. :		7S012I070R153.40		
COUNTY:	CLARK	ROUTE:	I-70	STA.	44+50	DIRECTION:	EB
DESCRIPTION OF WORK					UNIT	QUANTITY	
TIGHTEN THE LOOSE CONNECTION U BOLT					EACH	1	

LOCATION NO. :		7-2	STATE I.D. NO. :		7M015U045R006.20		
COUNTY:	COLES	ROUTE:	U.S. 45	STA.	3+33.5	DIRECTION:	SB
DESCRIPTION OF WORK					UNIT	QUANTITY	
REMOVE THE GROUT UNDER THE BASE PLATES					EACH	2	
INSTALL RODENT SCREENS					EACH	2	

LOCATION NO. :		7-3	STATE I.D. NO. :		7M015S016L005.41		
COUNTY:	COLES	ROUTE:	IL 16	STA.	33+75	DIRECTION:	WB
DESCRIPTION OF WORK					UNIT	QUANTITY	
REMOVE THE GROUT UNDER THE BASE PLATES					EACH	2	
INSTALL RODENT SCREENS					EACH	2	
UNCOVER RIGHT FOUNDATION					EACH	1	

LOCATION NO. :		7-4	STATE I.D. NO. :		7M015S016R005.24		
COUNTY:	COLES	ROUTE:	IL 16	STA.	24+80	DIRECTION:	EB
DESCRIPTION OF WORK					UNIT	QUANTITY	
REMOVE THE GROUT UNDER THE BASE PLATES					EACH	2	
INSTALL RODENT SCREENS					EACH	2	

LOCATION NO. :		7-5	STATE I.D. NO. :		7M015U045L011.94		
COUNTY:	COLES	ROUTE:	U.S. 45	STA.	43+23	DIRECTION:	NB
DESCRIPTION OF WORK					UNIT	QUANTITY	
REMOVE THE GROUT UNDER THE BASE PLATES					EACH	2	
INSTALL RODENT SCREENS					EACH	2	

LOCATION NO. :		7-6	STATE I.D. NO. :		7S015S016R008.07		
COUNTY:	COLES	ROUTE:	IL 16	STA.	101+55	DIRECTION:	EB
DESCRIPTION OF WORK					UNIT	QUANTITY	
REMOVE OVERHEAD SIGN STRUCTURE - SPAN					EACH	1	
REMOVE CONCRETE FOUNDATION					EACH	2	
REMOVE ELECTRIC SERVICE					EACH	1	
OVERHEAD SIGN STRUCTURE - SPAN, TYPE I-A (4'-0" X 4'-6")					FOOT	80	
OVERHEAD SIGN STRUCTURE - WALKWAY, TYPE A					FOOT	61	
DRILLED SHAFT CONCRETE FOUNDATION					CU YD	19.9	
REMOVE AND REINSTALL SIGN PANEL					SQ FT	363	

LOCATION NO. :		7-7	STATE I.D. NO. :		7C015I057L189.5		
COUNTY:	COLES	ROUTE:	I-57	STA.	786+10	DIRECTION:	SB
DESCRIPTION OF WORK					UNIT	QUANTITY	
REMOVE OVERHEAD SIGN STRUCTURE - SPAN					EACH	1	
REMOVE CONCRETE FOUNDATION					EACH	1	
REMOVE ELECTRIC SERVICE					EACH	1	
OVERHEAD SIGN STRUCTURE - SPAN, TYPE II-C-A					FOOT	28	
OVERHEAD SIGN STRUCTURE - WALKWAY, TYPE A					FOOT	18	
DRILLED SHAFT CONCRETE FOUNDATION					CU YD	8.6	
REMOVE AND REINSTALL SIGN PANEL					SQ FT	133	

LOCATION NO. :		7-8	STATE I.D. NO. :		7B015S016L189.61		
COUNTY:	COLES	ROUTE:	IL 16	STA.	115+65	DIRECTION:	WB
DESCRIPTION OF WORK					UNIT	QUANTITY	
REPAIR THE GALVANIZED FINISH ON THE UPPER SUPPORT ARMS AND PARAPET ANCHOR BOLTS					EACH	1	

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USER NAME = steffemk	DESIGNED -	REVISED -
DRAWN -	REVISED -	
PLOT SCALE = 2,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/24/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	13
CONTRACT NO. 46499				
ILLINOIS				

LOCATION NO. :		7-9	STATE I.D. NO. :		7C025S032L001.20		
COUNTY:	EFFINGHAM	ROUTE:	IL 32	STA.	1187+15	DIRECTION:	SB
DESCRIPTION OF WORK					UNIT	QUANTITY	
REMOVE THE GROUT UNDER THE BASE PLATES					EACH	1	
INSTALL RODENT SCREENS					EACH	1	

LOCATION NO. :		7-10	STATE I.D. NO. :		7S025I057R157.3		
COUNTY:	EFFINGHAM	ROUTE:	I-57	STA.	5021+35	DIRECTION:	NB
DESCRIPTION OF WORK					UNIT	QUANTITY	
REMOVE OVERHEAD SIGN STRUCTURE - SPAN					EACH	1	
REMOVE CONCRETE FOUNDATION					EACH	2	
REMOVE ELECTRIC SERVICE					EACH	1	
OVERHEAD SIGN STRUCTURE - SPAN, TYPE III-A (5'-0" X 7'-0")					FOOT	110	
OVERHEAD SIGN STRUCTURE - WALKWAY, TYPE A					FOOT	44.5	
DRILLED SHAFT CONCRETE FOUNDATION					CU YD	30.4	
REMOVE AND REINSTALL SIGN PANEL					SQ FT	408.5	

LOCATION NO. :		7-11	STATE I.D. NO. :		7C025I070L087.2		
COUNTY:	EFFINGHAM	ROUTE:	I-70	STA.	1785+46	DIRECTION:	WB
DESCRIPTION OF WORK					UNIT	QUANTITY	
REMOVE OVERHEAD SIGN STRUCTURE - SPAN					EACH	1	
REMOVE CONCRETE FOUNDATION					EACH	1	
REMOVE ELECTRICAL SERVICE					EACH	1	
OVERHEAD SIGN STRUCTURE - SPAN, TYPE III-C-A					FOOT	35	
OVERHEAD SIGN STRUCTURE - WALKWAY, TYPE A					FOOT	16	
DRILLED SHAFT CONCRETE FOUNDATION					CU YD	7.5	
REMOVE AND REINSTALL SIGN PANEL					SQ FT	78	

LOCATION NO. :		7-12	STATE I.D. NO. :		7S025I057R156.8		
COUNTY:	EFFINGHAM	ROUTE:	I-57	STA.	4997+97	DIRECTION:	NB
DESCRIPTION OF WORK					UNIT	QUANTITY	
REMOVE THE GROUT UNDER THE BASE PLATES					EACH	4	
INSTALL RODENT SCREENS					EACH	4	

LOCATION NO. :		7-13	STATE I.D. NO. :		7C026I070L063.10		
COUNTY:	FAYETTE	ROUTE:	I-70	STA.		DIRECTION:	WB
DESCRIPTION OF WORK					UNIT	QUANTITY	
REMOVE THE GROUT UNDER THE BASE PLATES					EACH	1	
INSTALL RODENT SCREENS					EACH	1	

LOCATION NO. :		7-14	STATE I.D. NO. :		7C026I070R071.60		
COUNTY:	FAYETTE	ROUTE:	I-70	STA.		DIRECTION:	EB
DESCRIPTION OF WORK					UNIT	QUANTITY	
REMOVE THE GROUT UNDER THE BASE PLATES					EACH	1	
INSTALL RODENT SCREENS					EACH	1	

LOCATION NO. :		7-15	STATE I.D. NO. :		7S051U050R011.10		
COUNTY:	LAWRENCE	ROUTE:	U.S. 50	STA.	1512+25	DIRECTION:	EB
DESCRIPTION OF WORK					UNIT	QUANTITY	
REMOVE OVERHEAD SIGN STRUCTURE - SPAN					EACH	1	
REMOVE CONCRETE FOUNDATION					EACH	4	
REMOVE ELECTRICAL SERVICE					EACH	1	
OVERHEAD SIGN STRUCTURE - SPAN, TYPE III-A (5'-0" X 7'-0")					FOOT	110	
OVERHEAD SIGN STRUCTURE - WALKWAY, TYPE A					FOOT	42	
DRILLED SHAFT CONCRETE FOUNDATION					CU YD	21.9	
REMOVE AND REINSTALL SIGN PANEL					SQ FT	439.25	

LOCATION NO. :		7-16	STATE I.D. NO. :		7C051U050L021.10		
COUNTY:	LAWRENCE	ROUTE:	U.S. 50	STA.		DIRECTION:	WB
DESCRIPTION OF WORK					UNIT	QUANTITY	
REMOVE THE GROUT UNDER THE BASE PLATES					EACH	1	
INSTALL RODENT SCREENS					EACH	1	

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	DRAWN -	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 5/24/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>SCHEDULES</b>			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	14
		CONTRACT NO. 46499		
ILLINOIS				

LOCATION NO. :		7-17	STATE I.D. NO. :		7S058U036L31.5		
COUNTY:	MACON	ROUTE:	U.S. 36	STA.	637+17	DIRECTION:	WB
DESCRIPTION OF WORK					UNIT	QUANTITY	
REMOVE OVERHEAD SIGN STRUCTURE - SPAN					EACH	1	
REMOVE CONCRETE FOUNDATION					EACH	2	
REMOVE ELECTRICAL SERVICE					EACH	1	
OVERHEAD SIGN STRUCTURE - SPAN, TYPE I-A (4'-0" X 4'-6")					FOOT	65	
OVERHEAD SIGN STRUCTURE - WALKWAY, TYPE A					FOOT	31.5	
DRILLED SHAFT CONCRETE FOUNDATION					CU YD	11.5	
REMOVE AND REINSTALL SIGN PANEL					SQ FT	359	
STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POST					FOOT	225	
TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT					EACH	3	
TRAFFIC BARRIER TERMINAL, TYPE 2					EACH	3	
GUARDRAIL MARKERS, TYPE A					EACH	12	
TERMINAL MARKER- DIRECT APPLIED					EACH	3	

LOCATION NO. :		7-18	STATE I.D. NO. :		7S058I072L134.3		
COUNTY:	MACON	ROUTE:	I-72	STA.	324+15	DIRECTION:	WB
DESCRIPTION OF WORK					UNIT	QUANTITY	
REMOVE CONCRETE FOUNDATION					EACH	4	
OVERHEAD SIGN STRUCTURE - SPAN, TYPE III-A (5'-0" X 7'-0")					FOOT	100	
OVERHEAD SIGN STRUCTURE - WALKWAY, TYPE A					FOOT	43.5	
DRILLED SHAFT CONCRETE FOUNDATION					CU YD	21.4	
INSTALL SIGN PANEL Type 2					SQ FT	26	
INSTALL SIGN PANEL Type 3					SQ FT	474.5	

LOCATION NO. :		7-19	STATE I.D. NO. :		7S058U036L031.0		
COUNTY:	MACON	ROUTE:	U.S. 36	STA.	610+80	DIRECTION:	WB
DESCRIPTION OF WORK					UNIT	QUANTITY	
REMOVE OVERHEAD SIGN STRUCTURE - SPAN					EACH	1	
REMOVE CONCRETE FOUNDATION					EACH	2	
REMOVE ELECTRICAL SERVICE					EACH	1	
OVERHEAD SIGN STRUCTURE - SPAN, TYPE I-A (4'-0" X 4'-6")					FOOT	80	
OVERHEAD SIGN STRUCTURE - WALKWAY, TYPE A					FOOT	46	
DRILLED SHAFT CONCRETE FOUNDATION					CU YD	20	
REMOVE AND REINSTALL SIGN PANEL					SQ FT	303.75	

LOCATION NO. :		7-20	STATE I.D. NO. :		7S058I072L133.8		
COUNTY:	MACON	ROUTE:	I-72	STA.	297+85	DIRECTION:	WB
DESCRIPTION OF WORK					UNIT	QUANTITY	
REMOVE OVERHEAD SIGN STRUCTURE - SPAN					EACH	1	
REMOVE CONCRETE FOUNDATION					EACH	4	
REMOVE ELECTRICAL SERVICE					EACH	1	
OVERHEAD SIGN STRUCTURE - SPAN, TYPE III-A (5'-0" X 7'-0")					FOOT	120	
OVERHEAD SIGN STRUCTURE - WALKWAY, TYPE A					FOOT	56	
DRILLED SHAFT CONCRETE FOUNDATION					CU YD	21.1	
REMOVE AND REINSTALL SIGN PANEL					SQ FT	455.5	

LOCATION NO. :		7-21	STATE I.D. NO. :		7C058U036L030.5		
COUNTY:	MACON	ROUTE:	U.S. 36	STA.	384+90	DIRECTION:	WB
DESCRIPTION OF WORK					UNIT	QUANTITY	
REMOVE OVERHEAD SIGN STRUCTURE - SPAN					EACH	1	
REMOVE CONCRETE FOUNDATION					EACH	1	
REMOVE ELECTRICAL SERVICE					EACH	1	
OVERHEAD SIGN STRUCTURE - SPAN, TYPE III-C-A					FOOT	35	
OVERHEAD SIGN STRUCTURE - WALKWAY, TYPE A					FOOT	20	
DRILLED SHAFT CONCRETE FOUNDATION					CU YD	9.2	
REMOVE AND REINSTALL SIGN PANEL					SQ FT	120	

LOCATION NO. :		7-22	STATE I.D. NO. :		7S058U36R030.2		
COUNTY:	MACON	ROUTE:	U.S. 36	STA.	567+35	DIRECTION:	EB
DESCRIPTION OF WORK					UNIT	QUANTITY	
REMOVE OVERHEAD SIGN STRUCTURE - SPAN					EACH	1	
REMOVE CONCRETE FOUNDATION					EACH	4	
REMOVE ELECTRICAL SERVICE					EACH	1	
OVERHEAD SIGN STRUCTURE - SPAN, TYPE I-A (4'-0" X 4'-6")					FOOT	100	
OVERHEAD SIGN STRUCTURE - WALKWAY, TYPE A					FOOT	49	
DRILLED SHAFT CONCRETE FOUNDATION					CU YD	21.61	
REMOVE AND REINSTALL SIGN PANEL					SQ FT	340.5	

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USER NAME = steffenmk	DESIGNED -	REVISED -
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PLOT SCALE = 2,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/24/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>SCHEDULES</b>		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	15
CONTRACT NO. 46499				
ILLINOIS				

LOCATION NO. :		7-23	STATE I.D. NO. :		7S058U051L010.65		
COUNTY:	MACON	ROUTE:	U.S. 36	STA.	881+85	DIRECTION:	SB
DESCRIPTION OF WORK					UNIT	QUANTITY	
REMOVE OVERHEAD SIGN STRUCTURE - SPAN					EACH	1	
REMOVE CONCRETE FOUNDATION					EACH	2	
REMOVE ELECTRICAL SERVICE					EACH	1	
OVERHEAD SIGN STRUCTURE - SPAN, TYPE I-A (4'-0" X 4'-6")					FOOT	100	
OVERHEAD SIGN STRUCTURE - WALKWAY, TYPE A					FOOT	51	
DRILLED SHAFT CONCRETE FOUNDATION					CU YD	30.5	
REMOVE AND REINSTALL SIGN PANEL					SQ FT	215	

LOCATION NO. :		7-24	STATE I.D. NO. :		7C058U051R010.98		
COUNTY:	MACON	ROUTE:	U.S. 51	STA.	776+90	DIRECTION:	NB
DESCRIPTION OF WORK					UNIT	QUANTITY	
REMOVE OVERHEAD SIGN STRUCTURE - SPAN					EACH	1	
REMOVE CONCRETE FOUNDATION					EACH	1	
REMOVE ELECTRICAL SERVICE					EACH	1	
OVERHEAD SIGN STRUCTURE - SPAN, TYPE III-C-A					FOOT	32	
OVERHEAD SIGN STRUCTURE - WALKWAY, TYPE A					FOOT	20	
DRILLED SHAFT CONCRETE FOUNDATION					CU YD	12.1	
REMOVE AND REINSTALL SIGN PANEL					SQ FT	175	

LOCATION NO. :		7-25	STATE I.D. NO. :		7C058U051L009.8		
COUNTY:	MACON	ROUTE:	U.S. 51	STA.	1170+10	DIRECTION:	EB
DESCRIPTION OF WORK					UNIT	QUANTITY	
REMOVE OVERHEAD SIGN STRUCTURE - SPAN					EACH	1	
REMOVE CONCRETE FOUNDATION					EACH	1	
REMOVE ELECTRICAL SERVICE					EACH	1	
OVERHEAD SIGN STRUCTURE - SPAN, TYPE III-C-A					FOOT	32	
OVERHEAD SIGN STRUCTURE - WALKWAY, TYPE A					FOOT	30	
DRILLED SHAFT CONCRETE FOUNDATION					CU YD	12.1	
REMOVE AND REINSTALL SIGN PANEL					SQ FT	201	

LOCATION NO. :		7-26	STATE I.D. NO. :		7C058I072L152.9		
COUNTY:	MACON	ROUTE:	I-72	STA.	772+88	DIRECTION:	WB
DESCRIPTION OF WORK					UNIT	QUANTITY	
REMOVE OVERHEAD SIGN STRUCTURE - SPAN					EACH	1	
REMOVE CONCRETE FOUNDATION					EACH	1	
REMOVE ELECTRICAL SERVICE					EACH	1	
OVERHEAD SIGN STRUCTURE - SPAN, TYPE III-C-A					FOOT	35	
OVERHEAD SIGN STRUCTURE - WALKWAY, TYPE A					FOOT	17	
DRILLED SHAFT CONCRETE FOUNDATION					CU YD	7.5	
REMOVE AND REINSTALL SIGN PANEL					SQ FT	74.75	

LOCATION NO. :		7-27	STATE I.D. NO. :		7C058I072R152.77		
COUNTY:	MACON	ROUTE:	I-72	STA.	767+10	DIRECTION:	EB
DESCRIPTION OF WORK					UNIT	QUANTITY	
REMOVE OVERHEAD SIGN STRUCTURE - SPAN					EACH	1	
REMOVE CONCRETE FOUNDATION					EACH	1	
REMOVE ELECTRICAL SERVICE					EACH	1	
OVERHEAD SIGN STRUCTURE - SPAN, TYPE III-C-A					FOOT	35	
OVERHEAD SIGN STRUCTURE - WALKWAY, TYPE A					FOOT	17	
DRILLED SHAFT CONCRETE FOUNDATION					CU YD	7.6	
REMOVE AND REINSTALL SIGN PANEL					SQ FT	74.75	

LOCATION NO. :		7-28	STATE I.D. NO. :		7S058I072R140.8		
COUNTY:	MACON	ROUTE:	I-72	STA.	137+88	DIRECTION:	EB
DESCRIPTION OF WORK					UNIT	QUANTITY	
REMOVE OVERHEAD SIGN STRUCTURE - SPAN					EACH	1	
REMOVE CONCRETE FOUNDATION					EACH	2	
REMOVE ELECTRICAL SERVICE					EACH	1	
OVERHEAD SIGN STRUCTURE - SPAN, TYPE I-A (4'-0" X 4'-6")					FOOT	80	
OVERHEAD SIGN STRUCTURE - WALKWAY, TYPE A					FOOT	46	
DRILLED SHAFT CONCRETE FOUNDATION					CU YD	19.6	
REMOVE AND REINSTALL SIGN PANEL					SQ FT	285.75	

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USER NAME = steffenmk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 2,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 5/24/2018	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SCHEDULES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD STR REPL 19-04	VARIOUS	82	16
			CONTRACT NO. 46499	
ILLINOIS				





LOCATION NO. :	7-37	STATE I.D. NO. :	7M058B051R005.92			
COUNTY:	MACON	ROUTE:	BUS. 51	STA.	648+36	DIRECTION: SB
DESCRIPTION OF WORK					UNIT	QUANTITY
REMOVE THE GROUT UNDER THE BASE PLATES					EACH	2
INSTALL RODENT SCREENS					EACH	2

LOCATION NO. :	7-38	STATE I.D. NO. :	7M058S105L000.10			
COUNTY:	MACON	ROUTE:	IL 105	STA.	145+53	DIRECTION: EB
DESCRIPTION OF WORK					UNIT	QUANTITY
REMOVE THE GROUT UNDER THE BASE PLATES					EACH	2
INSTALL RODENT SCREENS					EACH	2

LOCATION NO. :	7-39	STATE I.D. NO. :	7M058B051L006.07			
COUNTY:	MACON	ROUTE:	BUS. 51	STA.	640+72	DIRECTION: NB
DESCRIPTION OF WORK					UNIT	QUANTITY
REMOVE THE GROUT UNDER THE BASE PLATES					EACH	2
INSTALL RODENT SCREENS					EACH	2

LOCATION NO. :	7-40	STATE I.D. NO. :	7C058U051L118.9			
COUNTY:	MACON	ROUTE:	U.S. 51	M.P.	118.9	DIRECTION: SB
DESCRIPTION OF WORK					UNIT	QUANTITY
REMOVE OVERHEAD SIGN STRUCTURE - SPAN					EACH	1
REMOVE CONCRETE FOUNDATION					EACH	1
OVERHEAD SIGN STRUCTURE - SPAN, TYPE III-C-A					FOOT	30
OVERHEAD SIGN STRUCTURE - WALKWAY, TYPE A					FOOT	20
DRILLED SHAFT CONCRETE FOUNDATION					CU YD	7.7
REMOVE AND REINSTALL SIGN PANEL					SQ FT	84

LOCATION NO. :	7-41	STATE I.D. NO. :	7M058S121L011.16			
COUNTY:	MACON	ROUTE:	IL 121	STA.	1029+55	DIRECTION: WB
DESCRIPTION OF WORK					UNIT	QUANTITY
REMOVE THE GROUT UNDER THE BASE PLATES					EACH	2
INSTALL RODENT SCREENS					EACH	2

LOCATION NO. :	7-42	STATE I.D. NO. :	7M058S121R011.90			
COUNTY:	MACON	ROUTE:	IL 121	STA.	54+12	DIRECTION: EB
DESCRIPTION OF WORK					UNIT	QUANTITY
REMOVE THE GROUT UNDER THE BASE PLATES					EACH	2
INSTALL RODENT SCREENS					EACH	2

LOCATION NO. :	7-43	STATE I.D. NO. :	7M058B051L003.36			
COUNTY:	MACON	ROUTE:	BUS. 51	STA.	1371+37	DIRECTION: NB
DESCRIPTION OF WORK					UNIT	QUANTITY
REMOVE THE GROUT UNDER THE BASE PLATES					EACH	2
INSTALL RODENT SCREENS					EACH	2

LOCATION NO. :	7-44	STATE I.D. NO. :	7M058B051R005.81			
COUNTY:	MACON	ROUTE:	U.S. 36	STA.	59+10	DIRECTION: WB
DESCRIPTION OF WORK					UNIT	QUANTITY
REMOVE THE GROUT UNDER THE BASE PLATES					EACH	2
INSTALL RODENT SCREENS					EACH	2

MODEL: Default  
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USER NAME = steffenmk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 5/24/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCALE:		SHEET		OF	SHEETS	STA.	TO	STA.

**SCHEDULES**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	18
			CONTRACT NO. 46499	
ILLINOIS				

LOCATION NO. :		7-45	STATE I.D. NO. :		7M058U036R006.00		
COUNTY:	MACON	ROUTE:	U.S. 36	STA.	69+15	DIRECTION:	WB
DESCRIPTION OF WORK					UNIT	QUANTITY	
REMOVE THE GROUT UNDER THE BASE PLATES					EACH	2	
INSTALL RODENT SCREENS					EACH	2	

LOCATION NO. :		7-46	STATE I.D. NO. :		7M058B051R001.22		
COUNTY:	MACON	ROUTE:	U.S. 51	STA.	18+41	DIRECTION:	NB
DESCRIPTION OF WORK					UNIT	QUANTITY	
REMOVE THE GROUT UNDER THE BASE PLATES					EACH	2	
INSTALL RODENT SCREENS					EACH	2	

LOCATION NO. :		7-47	STATE I.D. NO. :		7M058S121R015.78		
COUNTY:	MACON	ROUTE:	IL 121	STA.	420+18.5	DIRECTION:	SB
DESCRIPTION OF WORK					UNIT	QUANTITY	
INSTALL RODENT SCREENS					EACH	2	

LOCATION NO. :		7-48	STATE I.D. NO. :		7M058S105R000.20		
COUNTY:	MACON	ROUTE:	IL 105	STA.	52+17	DIRECTION:	WB
DESCRIPTION OF WORK					UNIT	QUANTITY	
REMOVE THE GROUT UNDER THE BASE PLATES					EACH	2	
INSTALL RODENT SCREENS					EACH	2	

LOCATION NO. :		7-49	STATE I.D. NO. :		7M058S121L015.86		
COUNTY:	MACON	ROUTE:	IL 121	STA.	1414+37	DIRECTION:	NB
DESCRIPTION OF WORK					UNIT	QUANTITY	
REMOVE THE GROUT UNDER THE BASE PLATES					EACH	2	
INSTALL RODENT SCREENS					EACH	2	

LOCATION NO. :		7-50	STATE I.D. NO. :		7M058S121R015.91		
COUNTY:	MACON	ROUTE:	IL 121	STA.	412+40	DIRECTION:	SB
DESCRIPTION OF WORK					UNIT	QUANTITY	
REMOVE THE GROUT UNDER THE BASE PLATES					EACH	2	
INSTALL RODENT SCREENS					EACH	2	

LOCATION NO. :		7-51	STATE I.D. NO. :		7M058S121R019.17		
COUNTY:	MACON	ROUTE:	IL 121	STA.	487+25	DIRECTION:	NB
DESCRIPTION OF WORK					UNIT	QUANTITY	
REMOVE THE GROUT UNDER THE BASE PLATES					EACH	2	
INSTALL RODENT SCREENS					EACH	2	

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USER NAME =	steffenmk	DESIGNED -	REVISOR -
		DRAWN -	REVISION -
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PLOT DATE =	5/24/2018	DATE -	REVISION -

**STATE OF ILLINOIS  
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SCALE:		SHEET		OF	SHEETS	STA.	TO	STA.

**SCHEDULES**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	19
			CONTRACT NO. 46499	
ILLINOIS				

**GENERAL NOTES**

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

DESIGN STRESSES:  
Field Units  
f'c = 3,500 p.s.i.  
fy = 60,000 p.s.i. (reinforcement)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specifications.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53. All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W\*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer.

The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: Shall conform to ASTM F1554 Gr. 105.

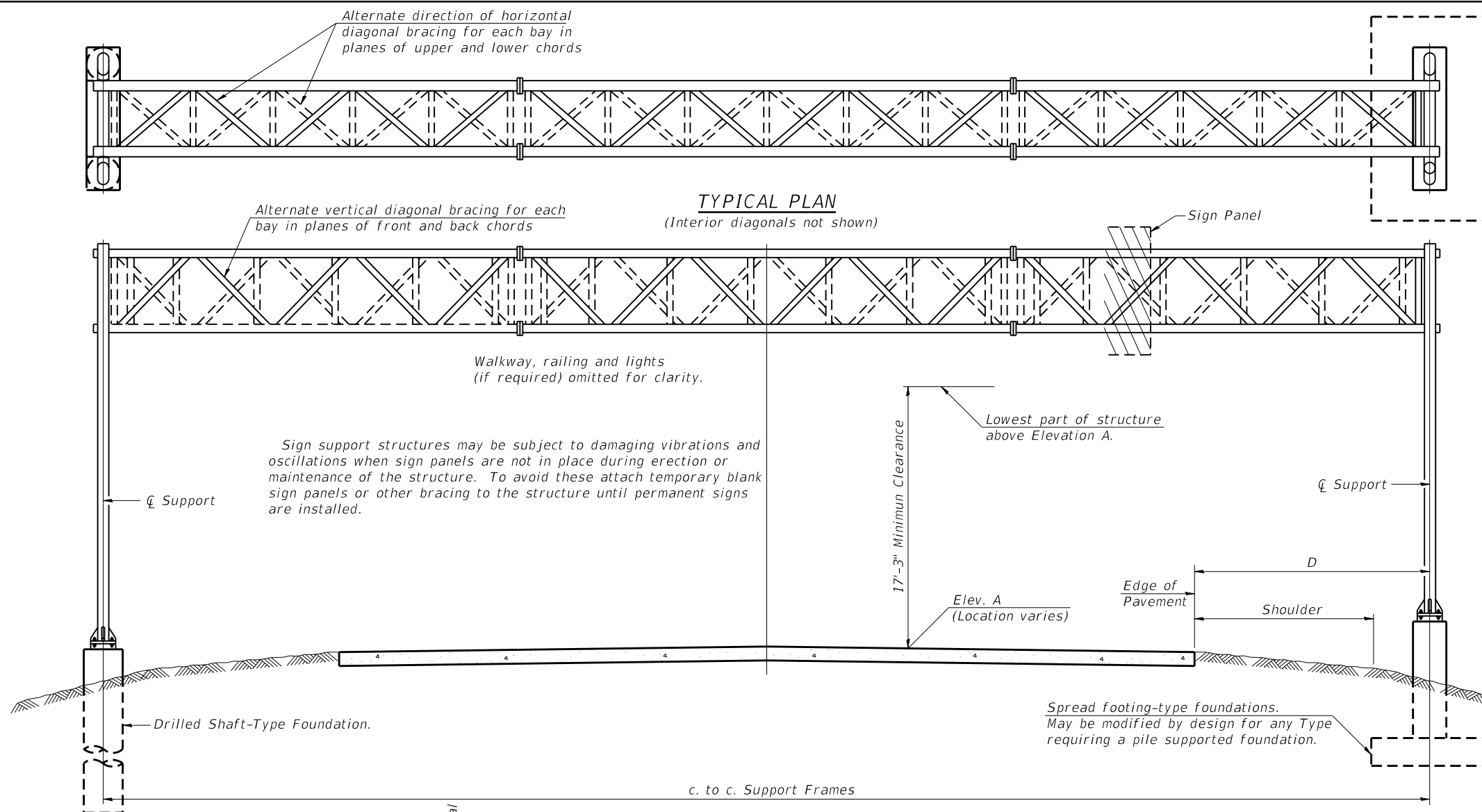
CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Concrete Sealer in accordance with the Standard Specifications.

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

FOUNDATIONS: The contract unit price for Concrete Foundations and Drilled Shaft Concrete Foundations shall include reinforcement bars complete in place.

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE SPAN TYPE I-A	FOOT	505.00
OVERHEAD SIGN STRUCTURE SPAN TYPE III-A	FOOT	440.00
OVERHEAD SIGN STRUCTURE WALKWAY TYPE	FOOT	470.50
DRILLED SHAFT CONCRETE FOUNDATION	CU. YDS	216.90



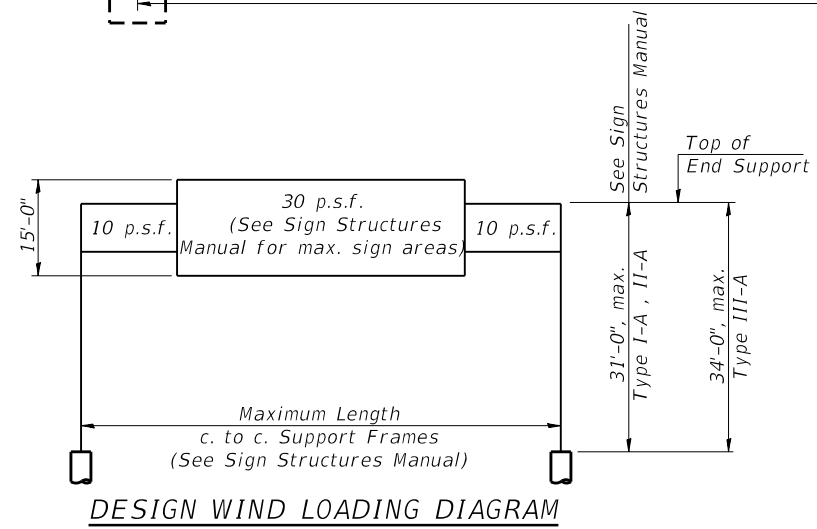
**TYPICAL ELEVATION**  
(Looking at Face of Signs\*\*)

Elev. A = Elevation at point of minimum clearance to sign, walkway support or truss.

Structure Number	Station	Design Truss Type	C. to C. Supports (Ft)	Elev. A (Ft)	Dim. Lt (Ft)	Dim. D Rt (Ft)	Height of Tallest Sign (Ft)	Total Sign Area (SF)
7S0251057R157.3	5021+35	III-A	110.00	100.00	26.00	22.00	12.50	408.50
7S0581072L133.8	297+85	III-A	120.00	100.00	27.00	22.00	12.00	455.50
7S058U036L031.0	610+80	I-A	80.00	100.00	14.00	10.70	9.50	303.75
7S058U036L031.5	637+17	I-A	65.00	100.00	12.90	10.00	11.00	359.00
7S058U036R030.2	567+35	I-A	100.00	100.00	14.10	26.50	11.00	340.50
7S058U051L010.65	881+85	I-A	100.00	100.00	15.00	26.00	7.50	215.00
7S015S016R008.07	101+55	I-A	80.00	100.00	8.00	3.70	9.50	363.00
7S0581072R140.8	137+88	I-A	80.00	100.00	25.60	10.40	12.00	285.75
7S0581072L134.3	324+15	III-A	100.00	100.00	25.70	21.70	16.50	410.25
7S051U050R011.10	1512+25	III-A	110.00	100.00	28.00	35.00	12.50	439.25

\*\*Looking upstation for structures with signs both sides.

If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.



05-A-1

2-17-2017

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	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES - GENERAL PLAN &  
ELEVATION - ALUMINUM TRUSS & STEEL SUPPORTS**

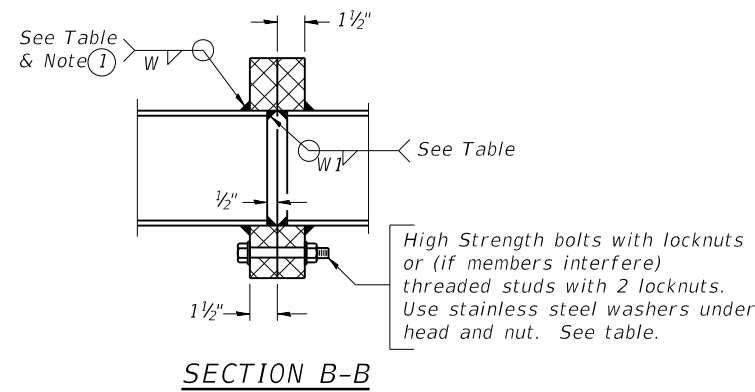
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	20
			CONTRACT NO. 46499	
ILLINOIS				

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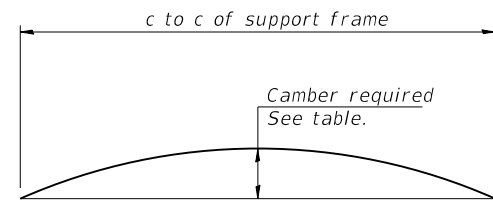
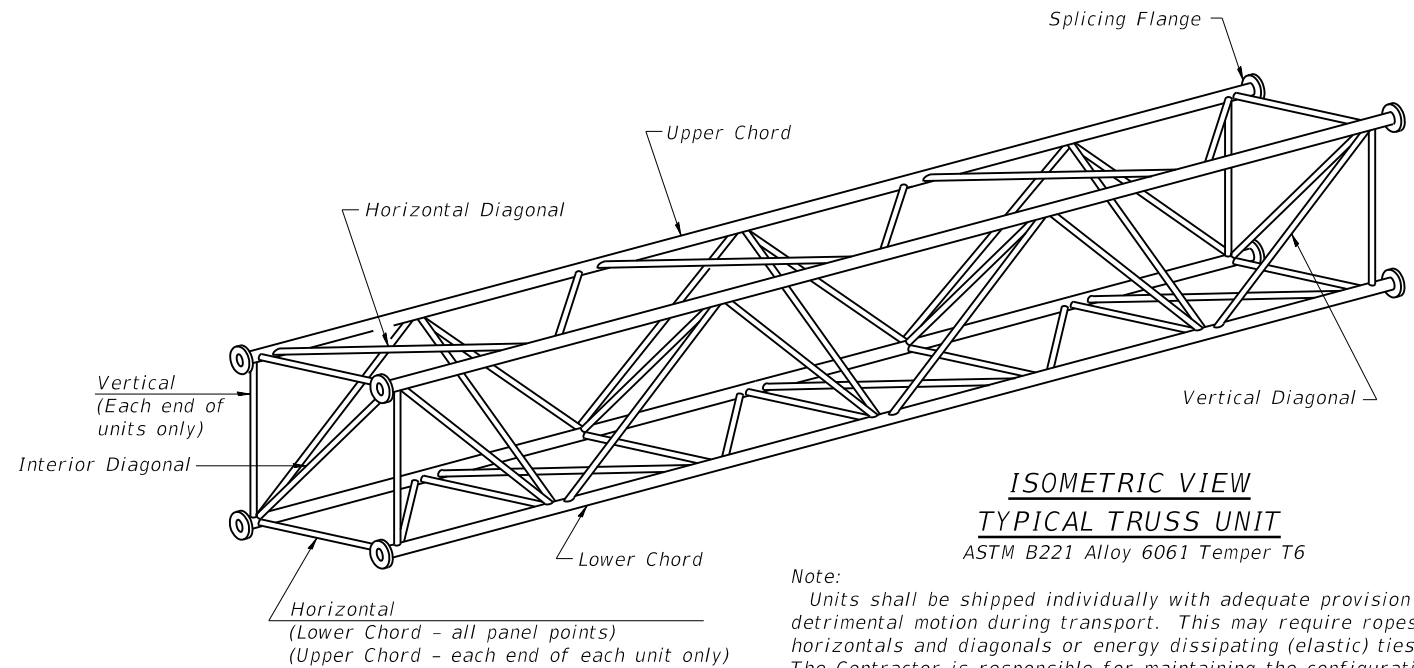


**TRUSS UNIT TABLE**

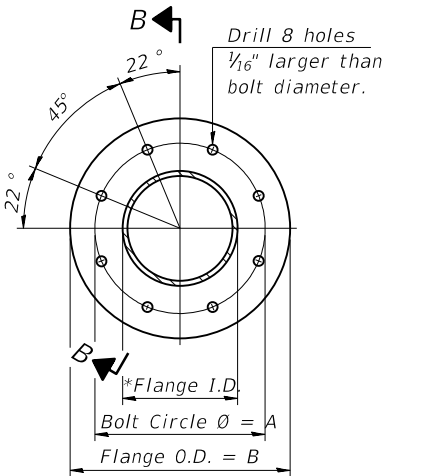
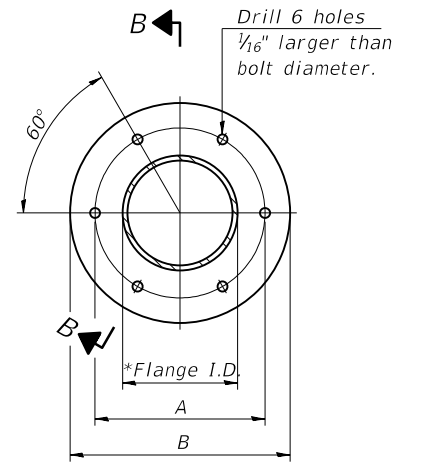
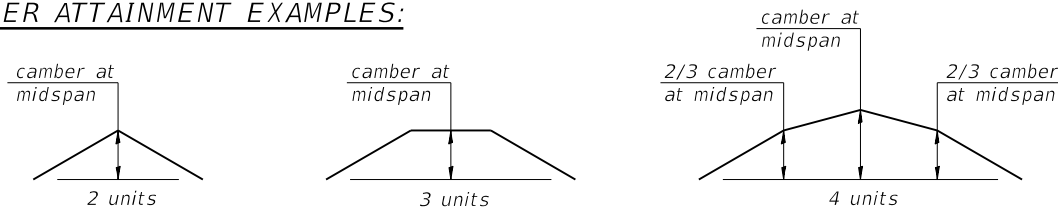
Structure Number	Station	Design Truss Type	Exterior Units (2)			Interior Unit				Upper & Lower Chord		Verticals: Horizontals: and Interior Diagonals		Camber at Midspan	Splicing Flange					
			No. Panels per Unit	Unit Lgth. (L)	Panel Lght. (P)	No Req'd.	No Panels per Unit	Unit Lgth. (L)	Panel Lght. (P)	O.D.	Wall	O.D.	Wall		Bolts		Weld Sizes		A	B
															No./Splice	Dia.	W	W <sub>i</sub>		
7S025I057R157.3	5021+35	III-A	7	39'-2 1/2"	5'-4"	1	6	33'-3"	5'-4"	7"	5/16"	3 1/4"	5/16"	2 1/2"	6	1"	7/16"	5/16"	11 1/2"	15"
7S058I072L133.8	297+85	III-A	6	30'-9"	4'-9 3/4"	2	6	30'-1 1/2"	4'-9 3/4"	7"	5/16"	3 1/4"	5/16"	3 1/4"	6	1"	7/16"	5/16"	11 1/2"	15"
7S058U036L031.0	610+80	I-A	5	25'-10"	4'-9 1/2"	1	6	30'-0"	4'-9 1/2"	5"	5/16"	2 1/2"	5/16"	2 1/4"	6	7/8"	5/16"	1/4"	8 3/4"	11 3/4"
7S058U036L031.5	637+17	I-A	7	33'-4 1/2"	4'-6"	-	-	-	-	5"	5/16"	2 1/2"	5/16"	1 3/4"	6	7/8"	5/16"	1/4"	8 3/4"	11 3/4"
7S058U036R030.2	567+35	I-A	7	35'-8 1/2"	4'-10"	1	6	30'-3"	4'-10"	5 1/2"	5/16"	2 1/2"	5/16"	3 1/4"	6	7/8"	3/8"	1/4"	9 1/4"	12 1/4"
7S058U051L010.65	881+85	I-A	7	35'-8 1/2"	4'-10"	1	6	30'-3"	4'-10"	5 1/2"	5/16"	2 1/2"	5/16"	3 1/4"	6	7/8"	3/8"	1/4"	9 1/4"	12 1/4"
7S015S016R008.07	101+55	I-A	5	25'-10"	4'-9 1/2"	1	6	30'-0"	4'-9 1/2"	5"	5/16"	2 1/2"	5/16"	2 1/4"	6	7/8"	5/16"	1/4"	8 3/4"	11 3/4"
7S058I072R140.8	137+88	I-A	5	25'-10"	4'-9 1/2"	1	6	30'-0"	4'-9 1/2"	5"	5/16"	2 1/2"	5/16"	2 1/4"	6	7/8"	5/16"	1/4"	8 3/4"	11 3/4"
7S058I072L134.3	324+15	III-A	6	34'-1 1/2"	5'-4 1/2"	1	6	33'-6"	5'-4 1/2"	7"	5/16"	3 1/4"	5/16"	2 5/16"	6	1"	7/16"	5/16"	11 1/2"	15"
7S051U050R011.1	1512+25	III-A	7	39'-2 1/2"	5'-4"	1	6	33'-3"	5'-4"	7"	5/16"	3 1/4"	5/16"	2 5/8"	6	1"	7/16"	5/16"	11 1/2"	15"



① Splicing Flanges shall be attached to each truss unit with the truss shop assembled to camber shown. Truss units shall be in proper alignment and flange surfaces shall be shop bolted into full contact before welding. Sufficient external welds or tacks shall be made to secure flanges until remaining welds are made after disassembly. Adjacent flanges shall be "match marked" to insure proper field assembly.



**CAMBER ATTAINMENT EXAMPLES:**



054-A-2

2-17-2017

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS DETAILS  
FOR TRUSS TYPES I-A, II-A AND III-A**

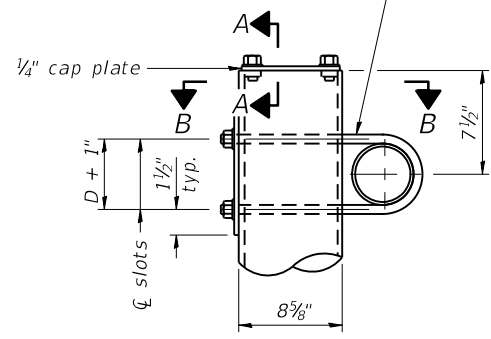
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	22
			CONTRACT NO. 46499	
ILLINOIS				

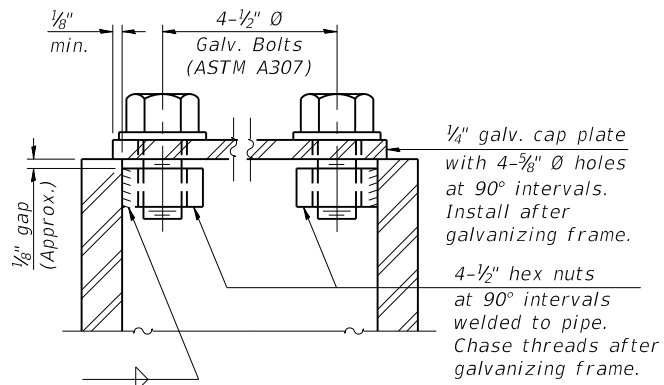
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3/4" Ø stainless steel U-bolt.  
Provide two washers and two hexagon locknuts. (4)  
1 3/16" x 2" slots on 8" Ø pipe.  
(4 slots required per pipe)

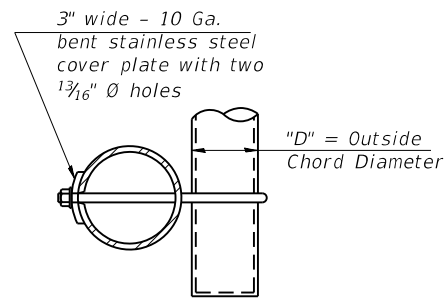


DETAIL A

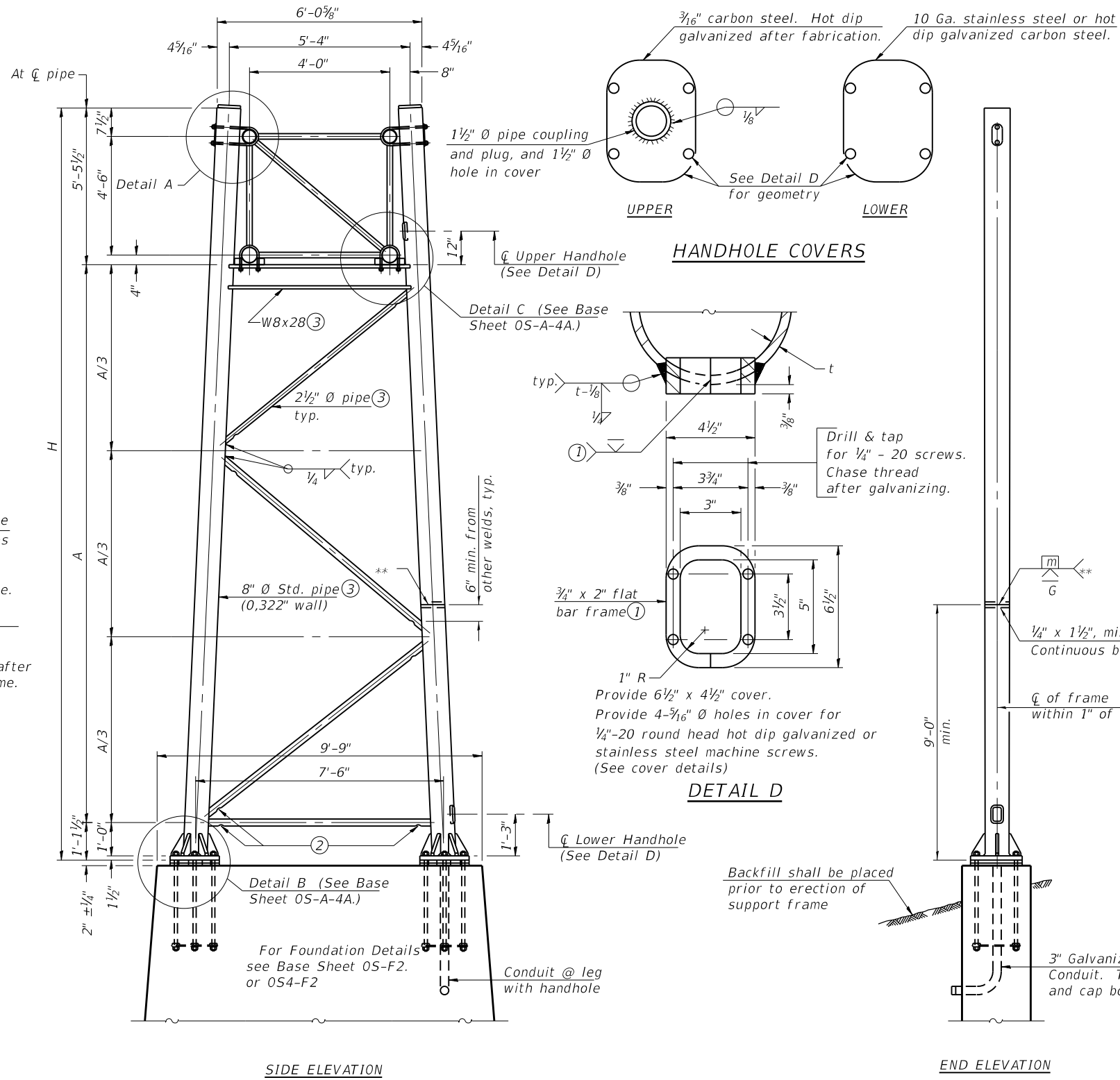


SECTION A-A

As an alternate to bolts, may use galvanized drive-fit caps installed after galvanizing frame.



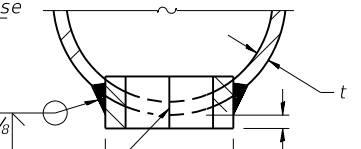
SECTION B-B



SIDE ELEVATION

END ELEVATION

HANDHOLE COVERS



Drill & tap for 1/4" - 20 screws. Chase thread after galvanizing.

DETAIL D

8" Ø PIPE TRUSS SUPPORT FRAME

\*\* One butt welded joint is allowed only on one post per support frame. If used, weld procedure must be pre-approved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.

Support Design Loads: See Base Sheet OS-A-1 for design and loading criteria.  
Load combinations checked include deadload plus:  
a) 100% wind normal to sign, 20% parallel to sign  
b) 60% wind normal to sign, 30% parallel to sign

- ① In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500µ in or less.
- ② Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred, typ.
- ③ Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet OS-A-1.
- ④ See General Notes for fasteners.
- ⑤ Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.
- ⑥ "H" based on 15'-0" or actual sign height, whichever is greater.

Structure Number	Station	Support		H (6) (Ft)	A (Ft)
		Left (Ft)	Right (Ft)		
7S058U036L031.5	637+17			28.02	21.44

05-A-4

2-17-2017

USER NAME = stefenmk	DESIGNED -	REVISED -
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	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

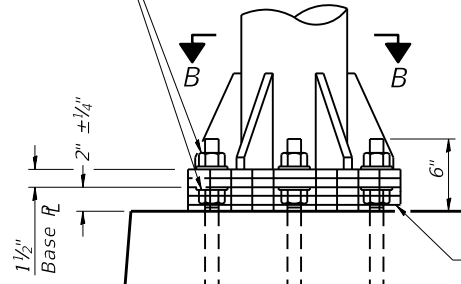
OVERHEAD SIGN STRUCTURES  
SUPPORT FRAME FOR TYPE I-A ALUMINUM TRUSS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	24
CONTRACT NO. 46499				

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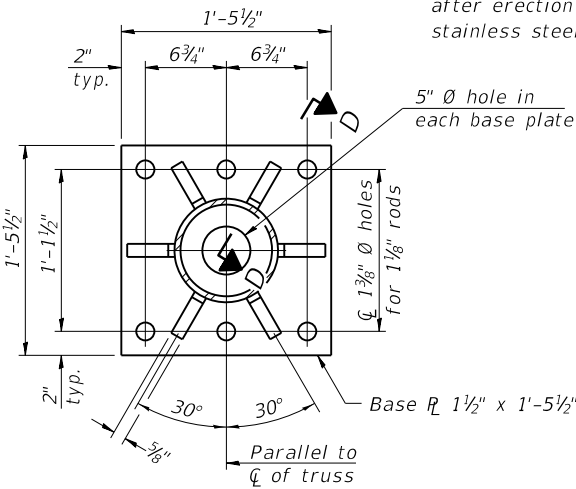
Hexagon locknut and washer (top), leveling nut and washer (bottom). Galvanize per AASHTO M232. Nuts shall each be tightened against base plate with 200 lb.-ft. minimum torque.



**DETAIL B**

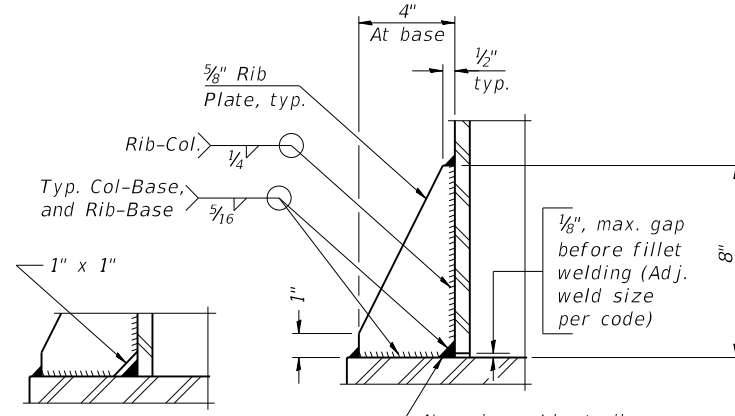
Ribs shall be cut to fit slope of pipe.

Stainless Steel Standard Grade Wire Cloth, 3" wide, 1/4" maximum opening with a minimum wire diameter of AWG. No. 16 with a minimum 2" lap. Secure to base plate after erection with 3/4" stainless steel banding.



**SECTION B-B**

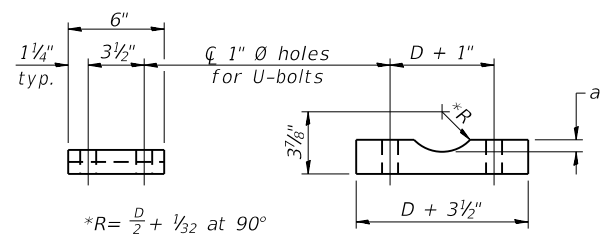
Base Pl. 1 1/2" x 1 5/2" x 1 5/2"  
Parallel to  $\phi$  of truss



**SECTION D-D**

\*\* Alternate detail if welding col. to base plate first, then snip inside corner of ribs. Terminate weld on rib 1/4" from snip.

No snip req'd. at rib inside corner if placed before col. to base plate welding.\*\*

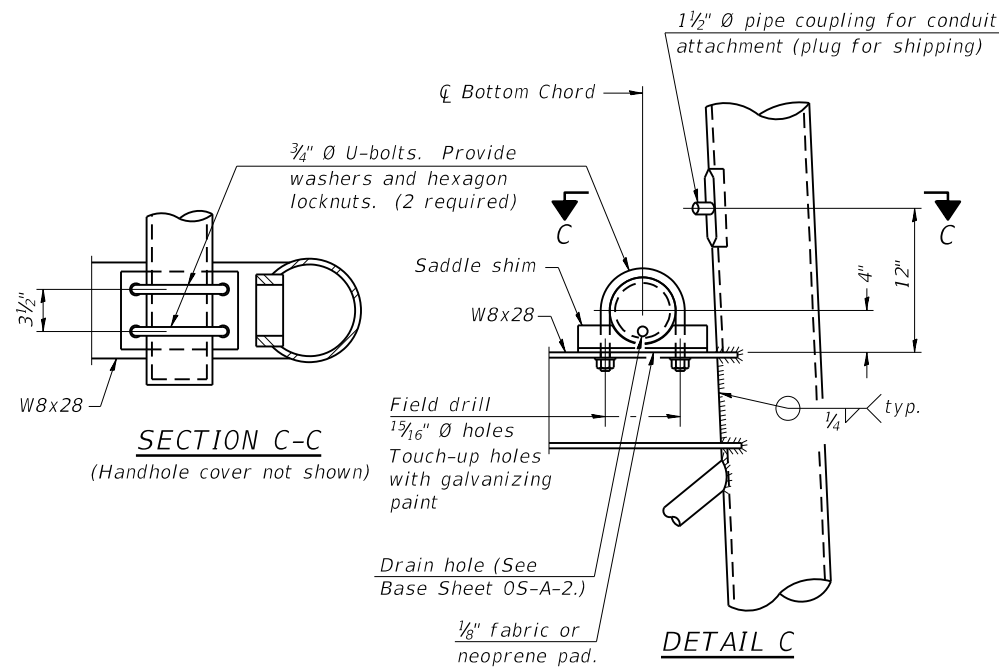


**SADDLE SHIM DETAIL**

ASTM B26 Alloy 356-F

or  
ASTM B209 Alloy 6061-T651  
(4 required per sign truss)

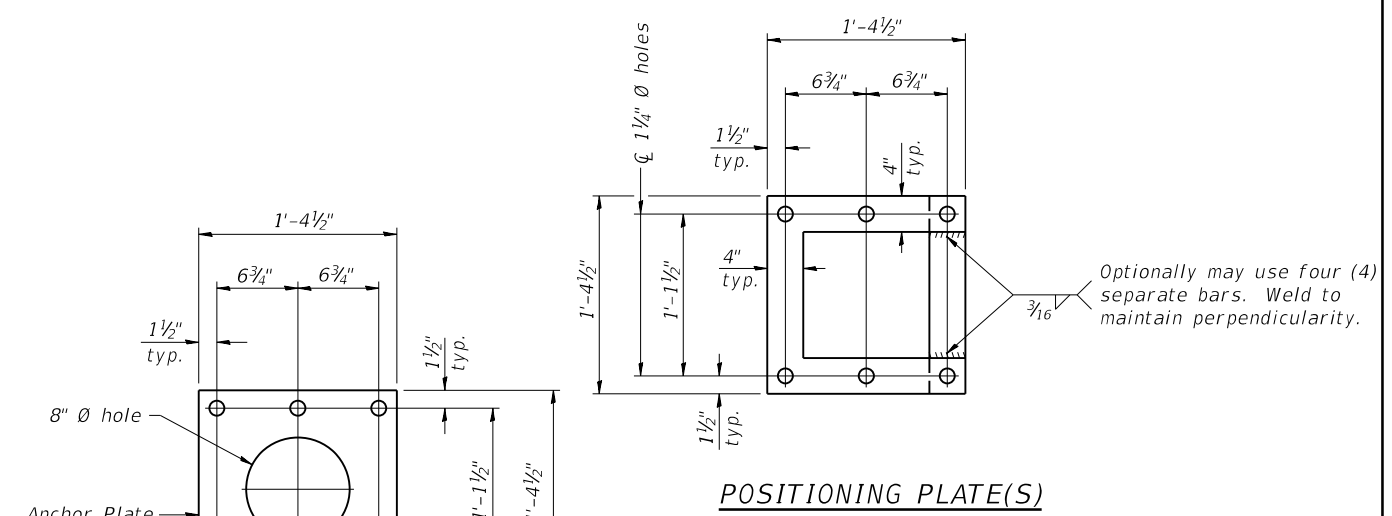
Truss Chord Nominal Dia.	a
5"	3/4"
5 1/2"	1 3/16"
6"	7/8"
6 1/2"	1 5/16"



**SECTION C-C**

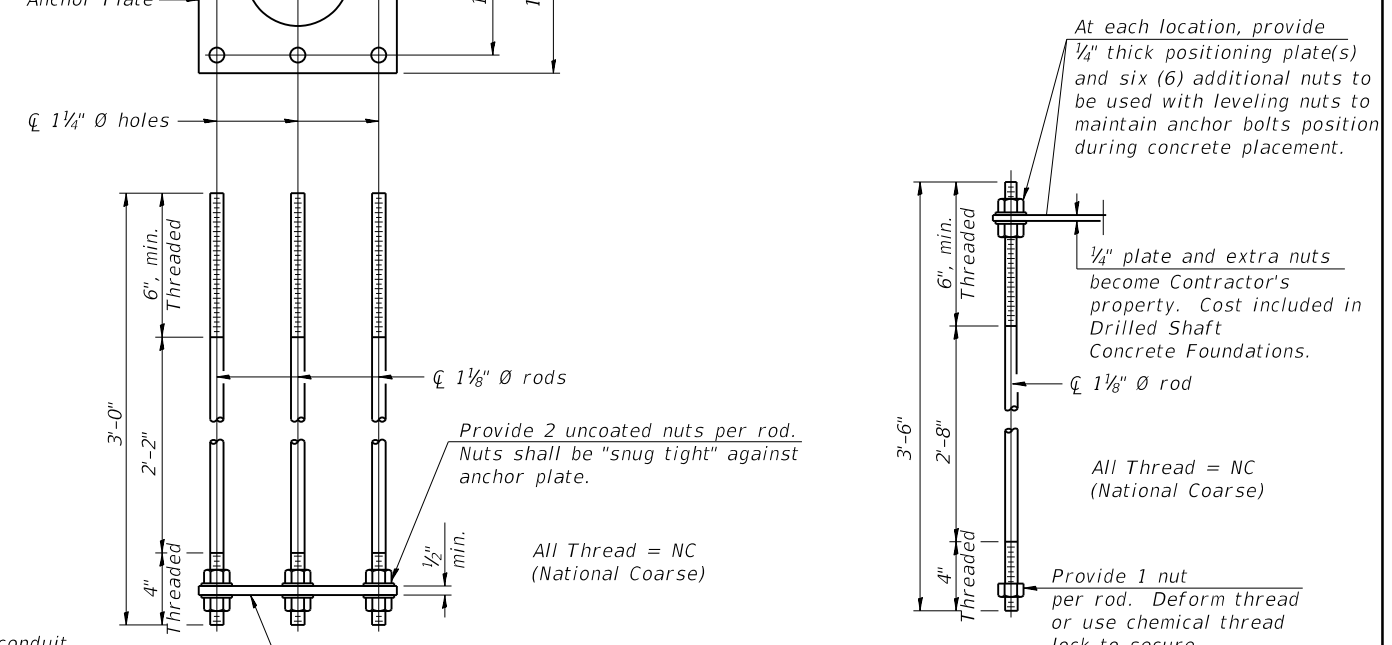
(Handhole cover not shown)

**DETAIL C**



**POSITIONING PLATE(S)**

Optionally may use four (4) separate bars. Weld to maintain perpendicularity.



**ANCHOR ROD DETAIL**  
Spread Footing Foundation

**ANCHOR ROD DETAIL**  
Drilled Shaft Foundation

Anchor rods shall conform to ASTM F1554 Grade 105. Galvanize upper 12" minimum per AASHTO M232. No welding shall be permitted on rods.

**TYPE I-A TRUSS**  
**8"  $\phi$  PIPE SUPPORT FRAME DETAILS**

05-A-4A

2-17-2017

USER NAME = steffemk	DESIGNED -	REVISED -
PLOT SCALE = 100,000' / in.	DRAWN -	REVISED -
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	DATE -	REVISED -

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DEPARTMENT OF TRANSPORTATION

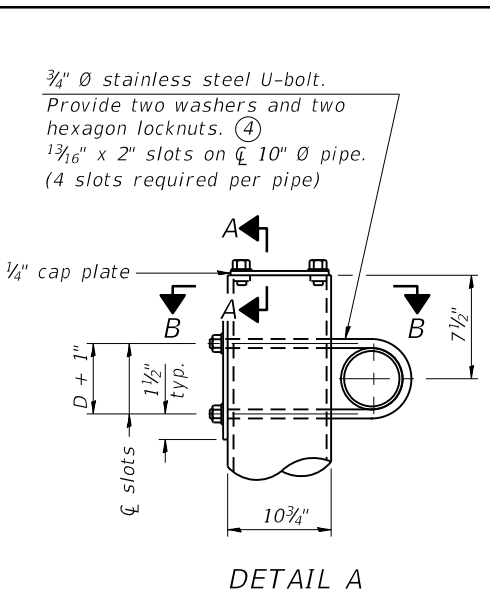
OVERHEAD SIGN STRUCTURES  
SUPPORT FRAME DETAILS - ALUMINUM TRUSS

SCALE: SHEET OF SHEETS STA. TO STA.

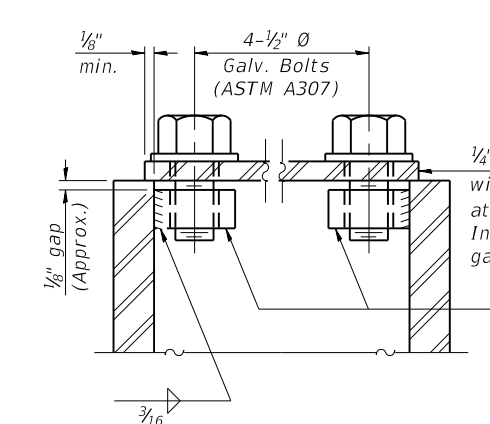
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	25
			CONTRACT NO. 46499	
ILLINOIS				

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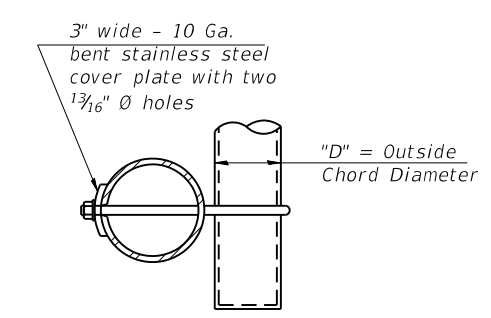


**DETAIL A**

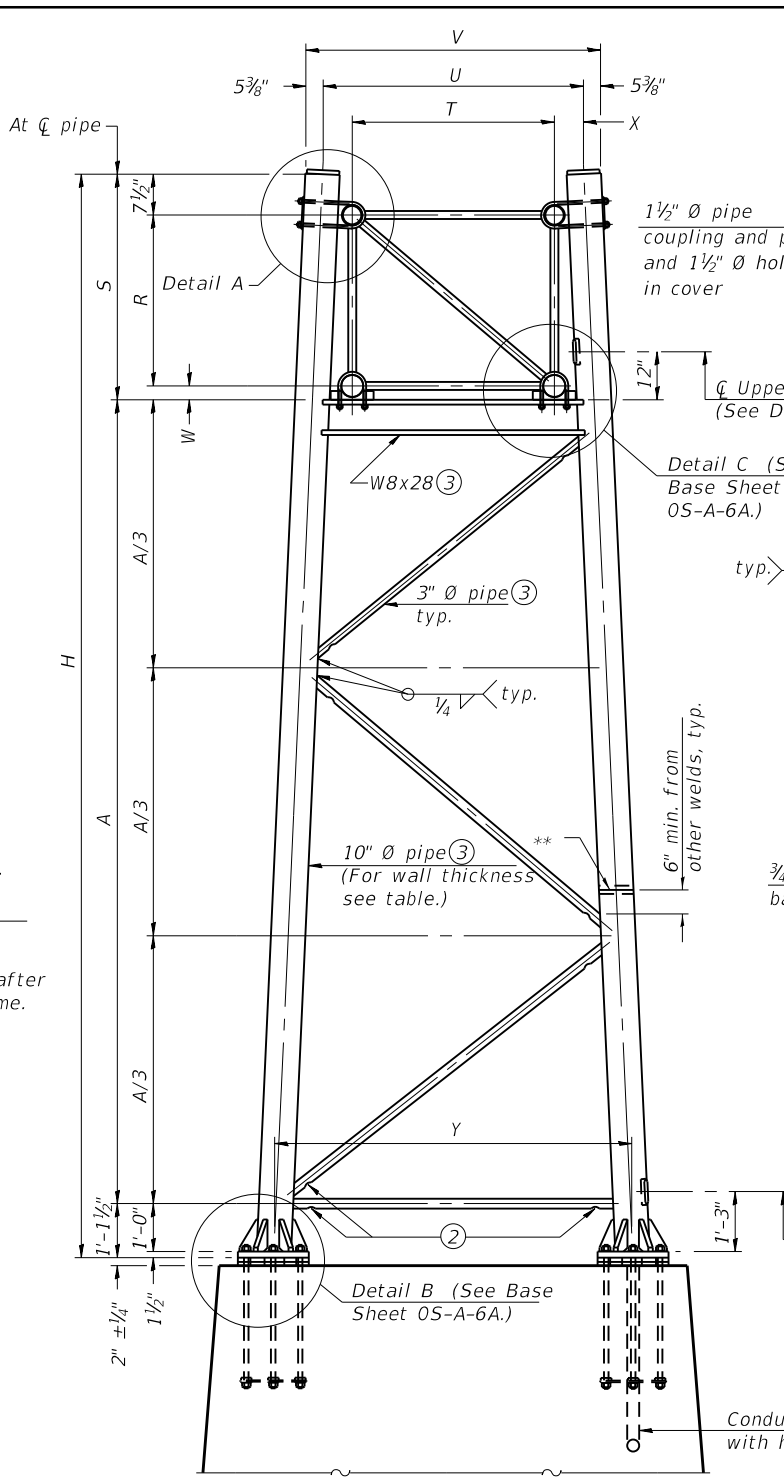


**SECTION A-A**

As an alternate to bolts, may use galvanized drive-fit caps installed after galvanizing frame.



**SECTION B-B**



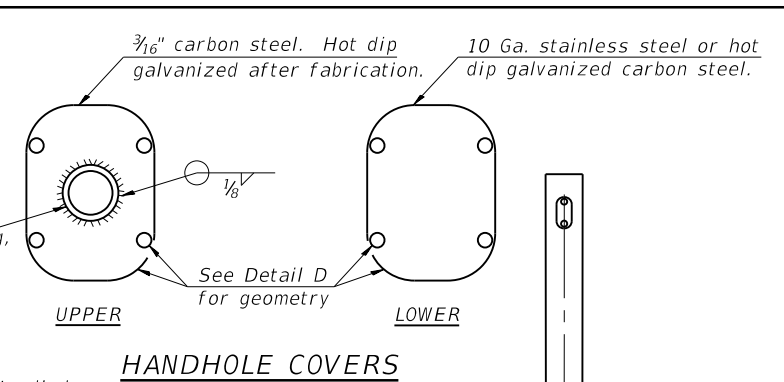
For Foundation Details, see base sheet 05-F3 (Spread Footing) or 05-F3 (Drilled Shaft).

**SIDE ELEVATION**

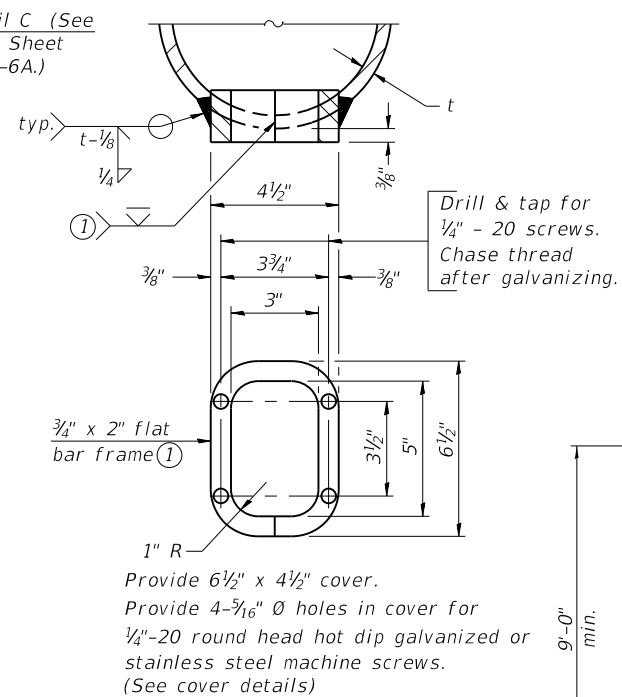
Truss Type	Dimensions							
	R	S	T	U	V	W	X	Y
I-A	4'-6"	5'-5 1/2"	4'-0"	5'-6"	6'-4 3/4"	4"	9"	8'-3"
II-A ⑤	5'-3"	6'-3 1/4"	4'-6"	6'-1"	6'-11 3/4"	4 3/4"	9 1/2"	8'-3"

**10" Ø PIPE TRUSS SUPPORT FRAME**

\*\* One butt welded joint is allowed only on one post per support frame. If used, weld procedure must be pre-approved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.

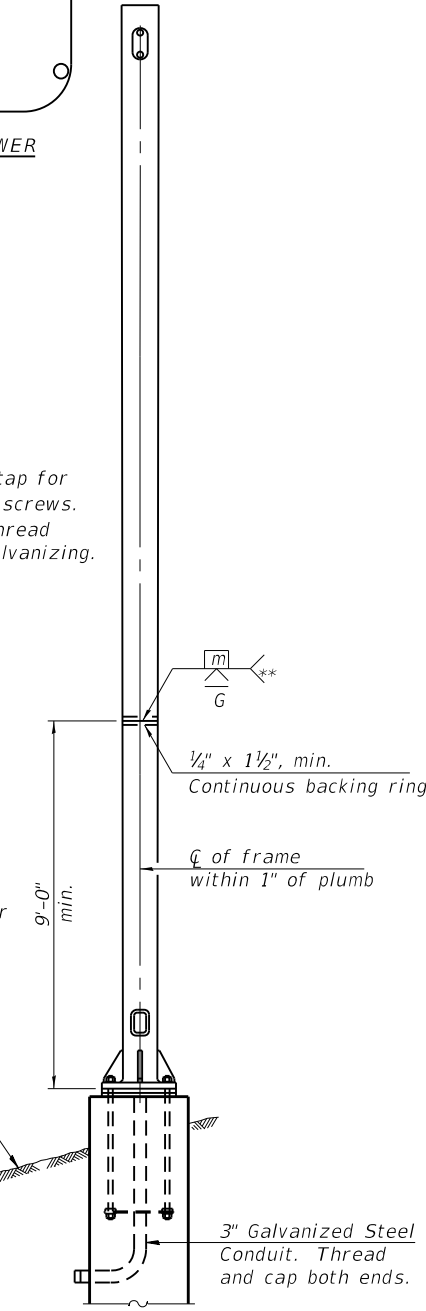


**HANDHOLE COVERS**



**DETAIL D**

Backfill shall be placed prior to erection of support frame



**END ELEVATION**

Support Design Loads: See Base Sheet 05-A-1 for design and loading criteria.  
 Load combinations checked include deadload plus:  
 a) 100% wind normal to sign, 20% parallel to sign  
 b) 60% wind normal to sign, 30% parallel to sign

- ① In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500µ in or less.
- ② Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred, typ.
- ③ Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet 05-A-1.
- ④ See General Notes for fasteners.
- ⑤ Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.
- ⑥ "H" based on 15'-0" or actual sign height, whichever is greater.

Structure Number	Station	Support		Truss Type	Pipe Wall Thickness (Inch)	H (6) (Ft)	A (Ft)
		Left (Ft)	Right (Ft)				
7S058U036L031.0	610+80			I-A	0.279	28.60	22.02
7S058U036R030.2	567+35			I-A	0.279	29.54	22.96
7S058U051L010.65	881+85			I-A	0.279	29.88	23.30
7S015S016R008.07	101+55			I-A	0.279	29.29	22.71
7S058I072R140.8	137+88			I-A	0.279	30.12	23.54

05-A-6

2-17-2017

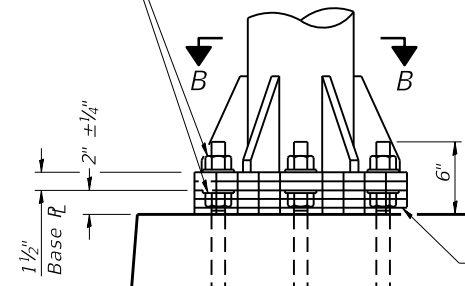
USER NAME = stefenmk	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 5/24/2018	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>OVERHEAD SIGN STRUCTURES SUPPORT FRAME FOR ALUMINUM TRUSS</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	26
			CONTRACT NO. 46499	
ILLINOIS				

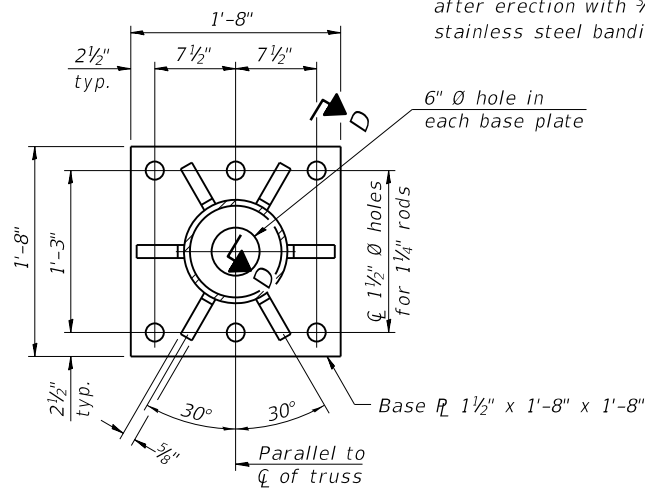
Hexagon locknut and washer (top), leveling nut and washer (bottom). Galvanize per AASHTO M232. Nuts shall each be tightened against base plate with 200 lb.-ft. minimum torque.



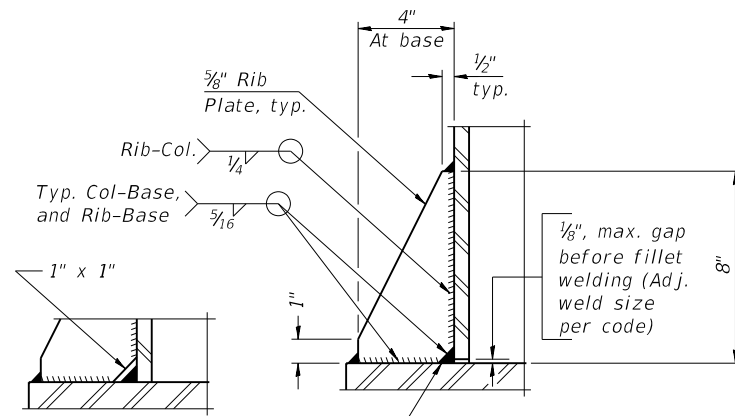
**DETAIL B**

Ribs shall be cut to fit slope of pipe.

Stainless Steel Standard Grade Wire Cloth, 3" wide, 1/4" maximum opening with a minimum wire diameter of AWG. No. 16 with a minimum 2" lap. Secure to base plate after erection with 3/4" stainless steel banding.



**SECTION B-B**

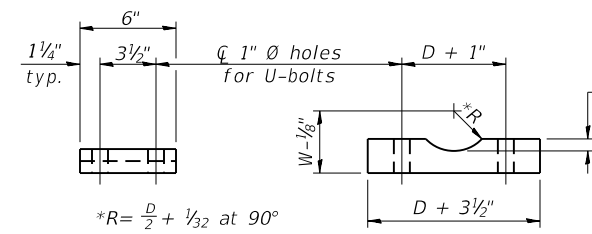


**SECTION D-D**

\*\* Alternate detail if welding col. to base plate first, then snip inside corner of ribs. Terminate weld on rib 1/4" from snip.

1/8" max. gap before fillet welding (Adj. weld size per code)

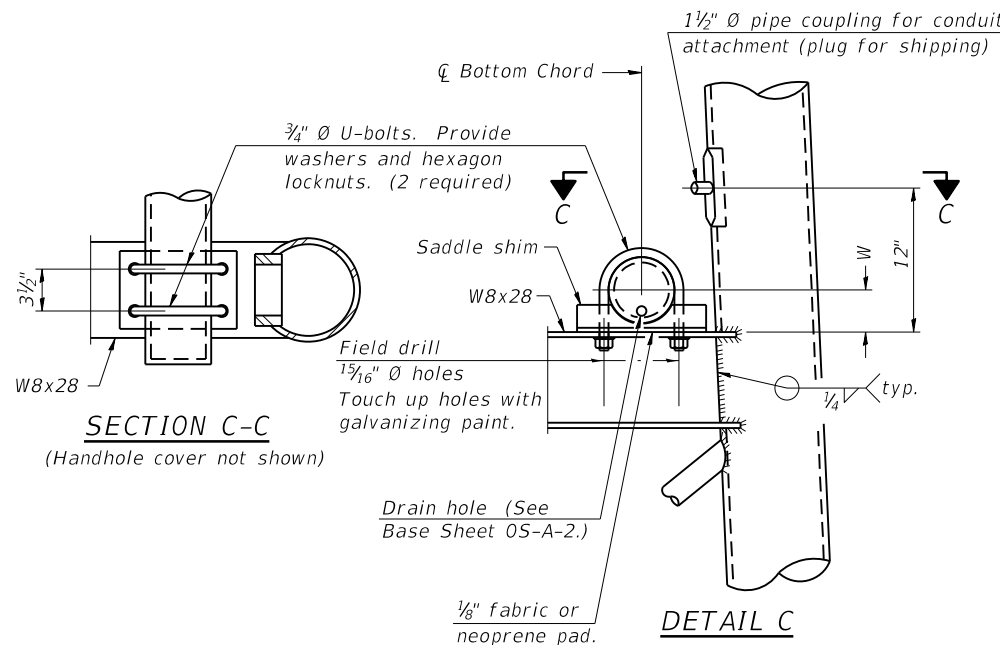
No snip req'd. at rib inside corner if placed before col. to base plate welding.\*\*



**SADDLE SHIM DETAIL**

ASTM B26 Alloy 356-F  
or  
ASTM B209 Alloy 6061-T651 (4 required per sign truss)

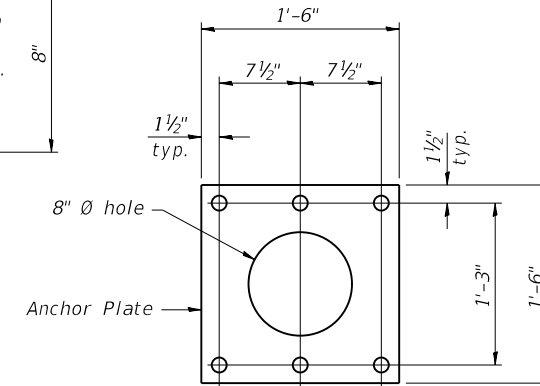
Truss Chord Nominal Dia.	a
5"	3/4"
5 1/2"	1 1/16"
6"	7/8"
6 1/2"	1 5/16"
7"	1"



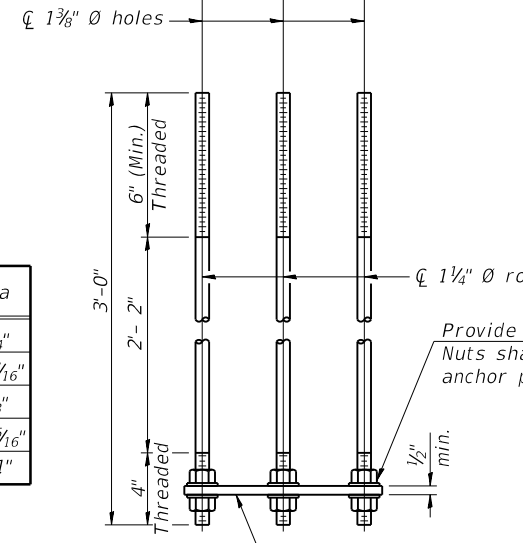
**SECTION C-C**

(Handhole cover not shown)

**DETAIL C**



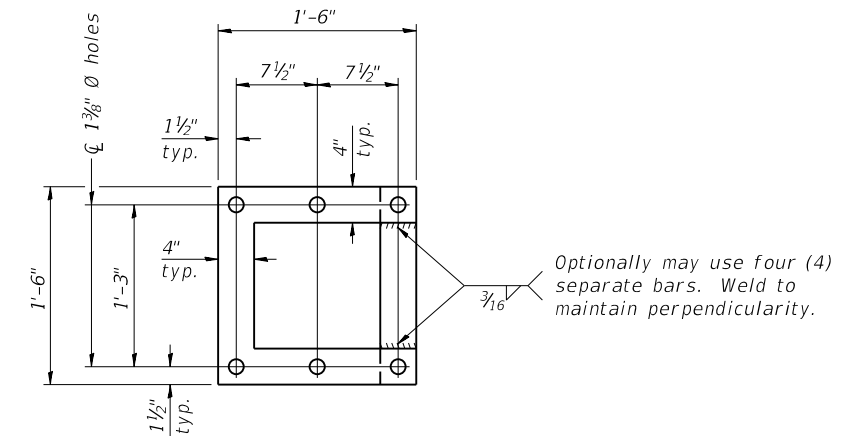
**Anchor Plate**



**ANCHOR ROD DETAIL**  
Spread Footing Foundation

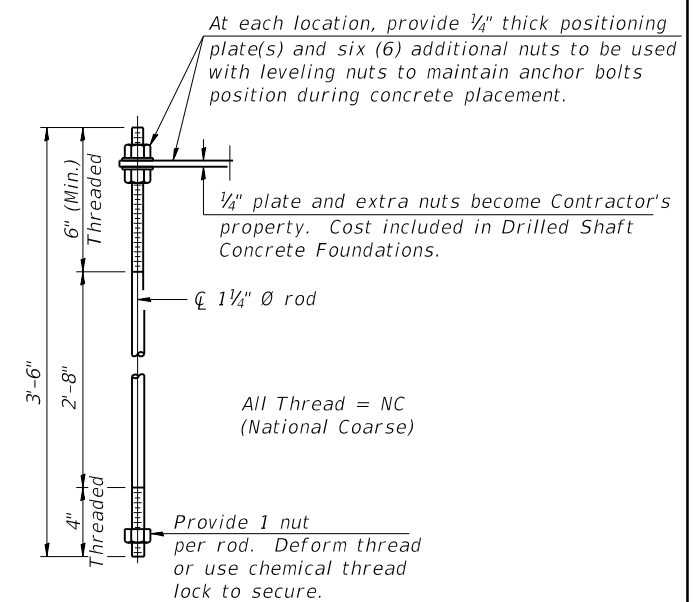
Provide 2 uncoated nuts per rod. Nuts shall be "snug tight" against anchor plate.

All Thread = NC (National Coarse)



**POSITIONING PLATE(S)**

Optionally may use four (4) separate bars. Weld to maintain perpendicularity.



**ANCHOR ROD DETAIL**  
Drilled Shaft Foundation

At each location, provide 1/4" thick positioning plate(s) and six (6) additional nuts to be used with leveling nuts to maintain anchor bolts position during concrete placement.

1/4" plate and extra nuts become Contractor's property. Cost included in Drilled Shaft Concrete Foundations.

All Thread = NC (National Coarse)

Provide 1 nut per rod. Deform thread or use chemical thread lock to secure.

**10" Ø PIPE SUPPORT FRAME DETAILS**

Anchor rods shall conform to ASTM F1554 Grade 105. Galvanize upper 12" minimum per AASHTO M232. No welding shall be permitted on rods.

05-A-6A

2-17-2017

USER NAME	DESIGNED	REVISED
= stefenmk	-	-
PLOT SCALE = 100,0000' / in.	CHECKED	REVISIED
PLOT DATE = 3/15/2018	DATE	REVISIED

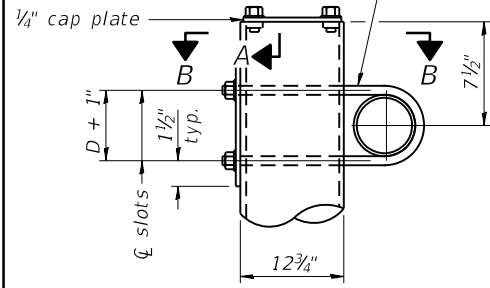
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES  
SUPPORT FRAME DETAILS - ALUMINUM TRUSS

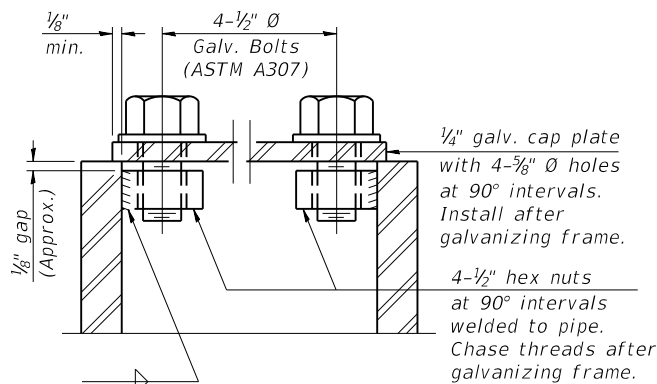
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	27
CONTRACT NO. 46499				
ILLINOIS				

3/4" Ø stainless steel U-bolt.  
Provide two washers and two hexagon locknuts. (4)  
1 3/16" x 2" slots on 1/2" Ø pipe.  
(4 slots required per pipe)

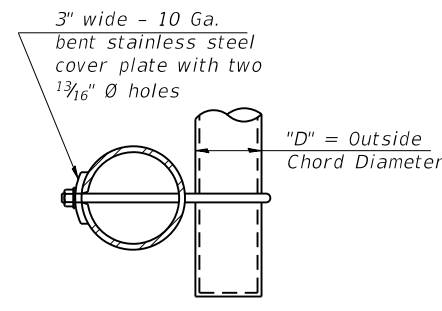


DETAIL A

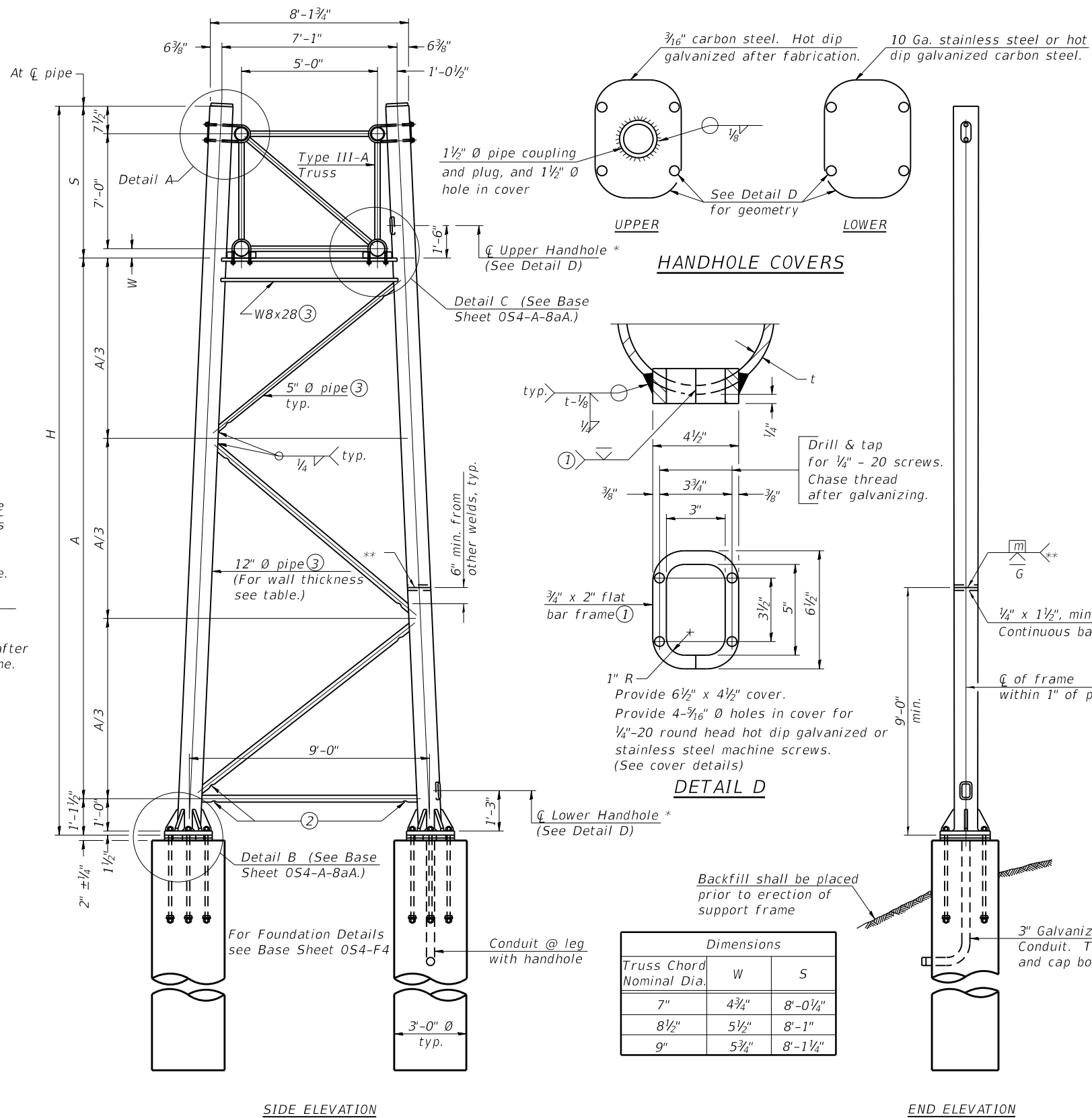


SECTION A-A

As an alternate to bolts, may use galvanized drive-fit caps installed after galvanizing frame.



SECTION B-B



SIDE ELEVATION

END ELEVATION

Dimensions		
Truss Chord Nominal Dia.	W	S
7"	4 3/4"	8'-0 1/4"
8 1/2"	5 1/2"	8'-1"
9"	5 3/4"	8'-1 1/4"

**TRUSS SUPPORT DETAILS**

(12" Ø Pipe-Type III-A Truss)

\*\* One butt welded joint is allowed only on one post per support frame. If used, weld procedure must be pre-approved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.

Support Design Loads: See Base Sheet 05-A-1 for design and loading criteria.

Load combinations checked include deadload plus:  
a) 100% wind normal to sign, 20% parallel to sign  
b) 60% wind normal to sign, 30% parallel to sign

- ① In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500 µin or less.
- ② Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred, typ.
- ③ Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet 05-A-1.
- ④ See General Notes for fasteners.
- ⑤ Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.
- ⑥ "H" based on 15'-0" or actual sign height, whichever is greater.

\* For dynamic message sign installations, provide upper and lower handholes in both legs of each support frame.

054-A-8a

2-17-2017

USER NAME = steffemk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 5/24/2018	DATE -	REVISED -

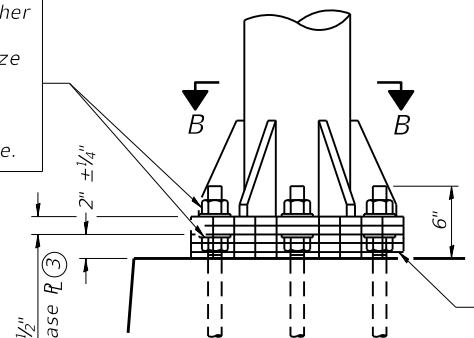
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES - SUPPORT FRAME  
FOR TYPE III-A ALUMINUM TRUSS**

SCALE: SHEET OF SHEETS STA. TO STA.

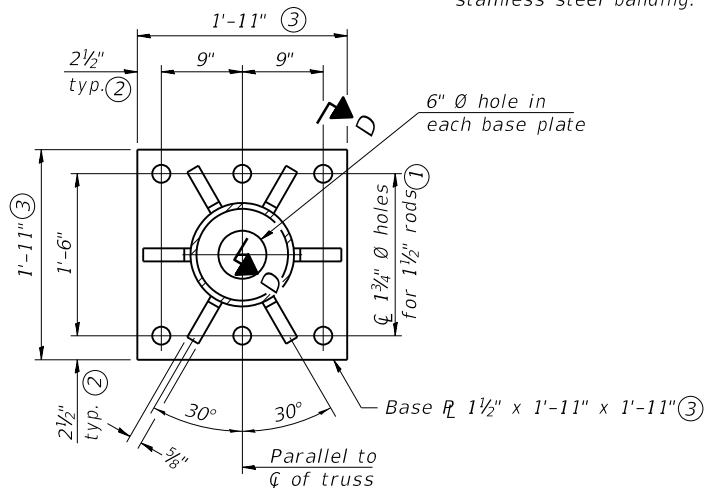
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	28
			CONTRACT NO. 46499	
ILLINOIS				

Hexagon locknut and washer (top), leveling nut and washer (bottom). Galvanize per AASHTO M232. Nuts shall each be tightened against base plate with 200 lb.-ft. minimum torque.

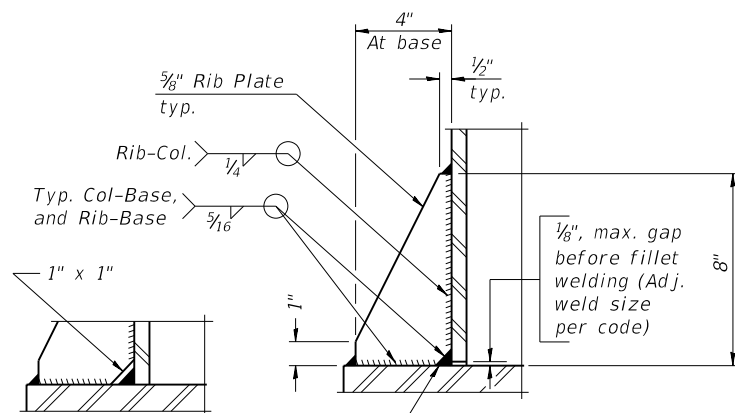


**DETAIL B**  
Ribs shall be cut to fit slope of pipe.

Stainless Steel Standard Grade Wire Cloth, 3" wide, 1/4" maximum opening with a minimum wire diameter of AWG. No. 16 with a minimum 2" lap. Secure to base plate after erection with 3/4" stainless steel banding.



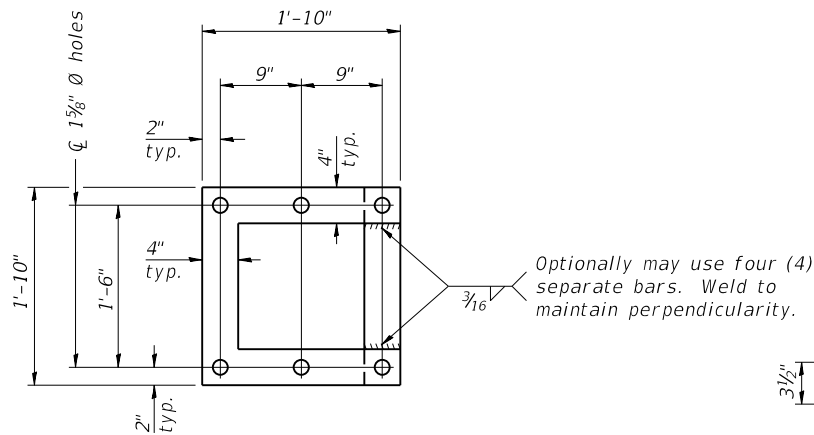
**SECTION B-B**



**SECTION D-D**

\*\* Alternate detail if welding col. to base plate first, then snip inside corner of ribs. Terminate weld on rib 1/4" from snip.

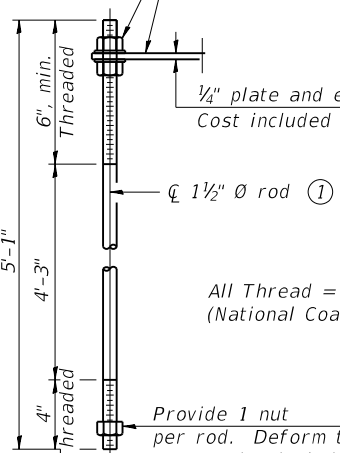
No snip req'd. at rib inside corner if placed before col. to base plate welding.\*\*



**POSITIONING PLATE(S)**

Optionally may use four (4) separate bars. Weld to maintain perpendicularity.

At each location, provide 1/4" thick positioning plate(s) and six (6) additional nuts to be used with leveling nuts to maintain anchor bolts position during concrete placement.



**ANCHOR ROD DETAIL**

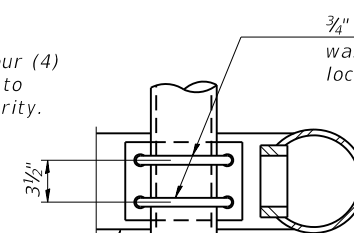
Anchor rods shall conform to ASTM F1554 Grade 105 Galvanize upper 12" minimum per AASHTO M232. No welding shall be permitted on rods.

**TYPE III-A TRUSS**

**12" Ø PIPE SUPPORT FRAME DETAILS**

Notes:  
For Type III-A Truss spans greater than 150 ft, and up to 160 ft.:

- ① 1 3/4" Ø rod, 2" Ø holes
- ② 2 3/4" edge distance
- ③ Base Pl 1 1/2" x 1'-11 1/2" x 1'-11 1/2"



**SECTION C-C**  
(Handhole cover not shown)

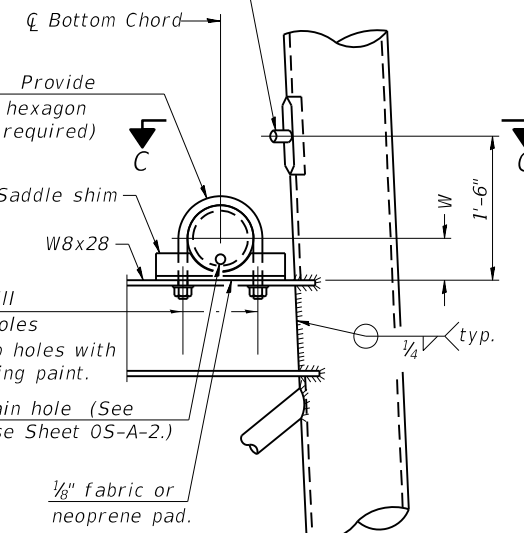
3/4" Ø U-bolts. Provide washers and hexagon locknuts. (2 required)

Field drill 1 5/16" Ø holes Touch up holes with galvanizing paint.

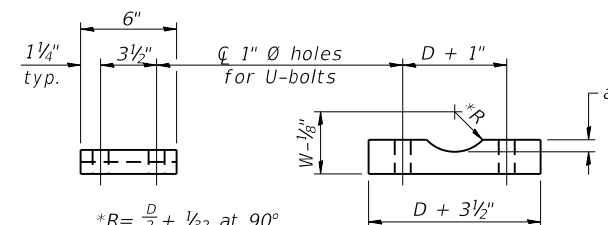
Drain hole (See Base Sheet OS-A-2.)

1/8" fabric or neoprene pad.

1 1/2" Ø pipe coupling for conduit attachment (plug for shipping)



**DETAIL C**



\*R = D/2 + 1/2 at 90°

D = Outside Diameter of Chord.  
For W, see Base Sheet OS-A-6.

**SADDLE SHIM DETAIL**

ASTM B26 Alloy 356-F  
or  
ASTM B209 Alloy 6061-T651  
(4 required per sign truss)

Truss Chord Nominal Dia.	a
7"	1"
8 1/2"	1 1/4"
9"	1 3/8"

054-A-8aA

2-17-2017

USER NAME = stefenmk	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/15/2018	CHECKED -	REVISED -
	DATE -	REVISED -

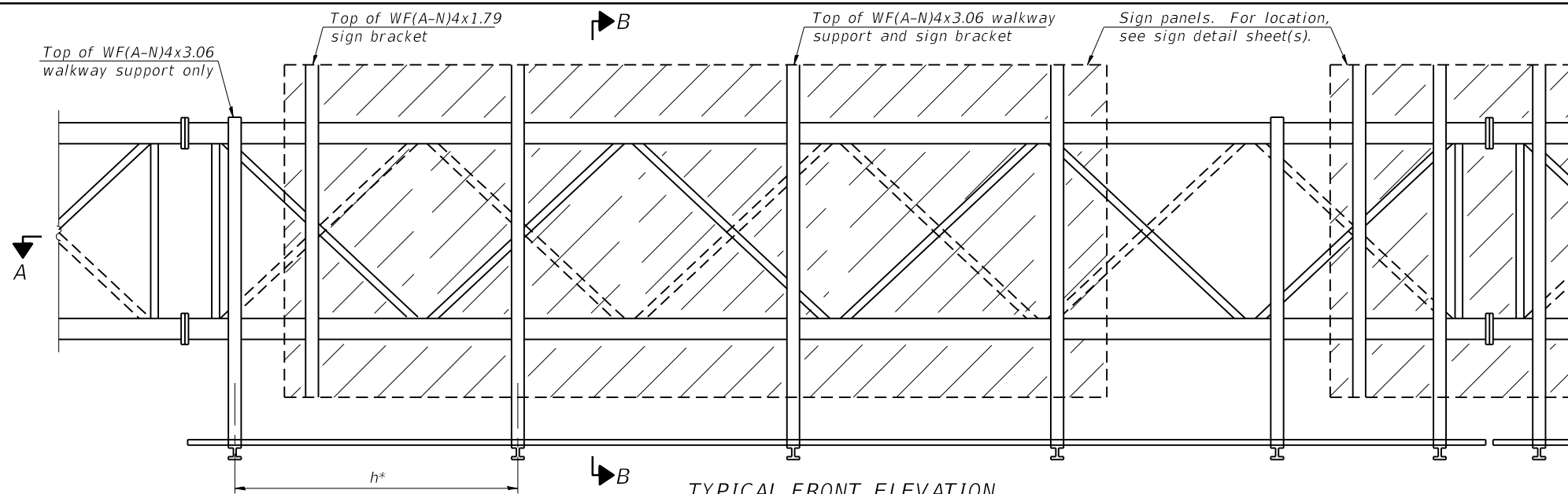
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES  
SUPPORT FRAME FOR TYPE III-A ALUMINUM TRUSS

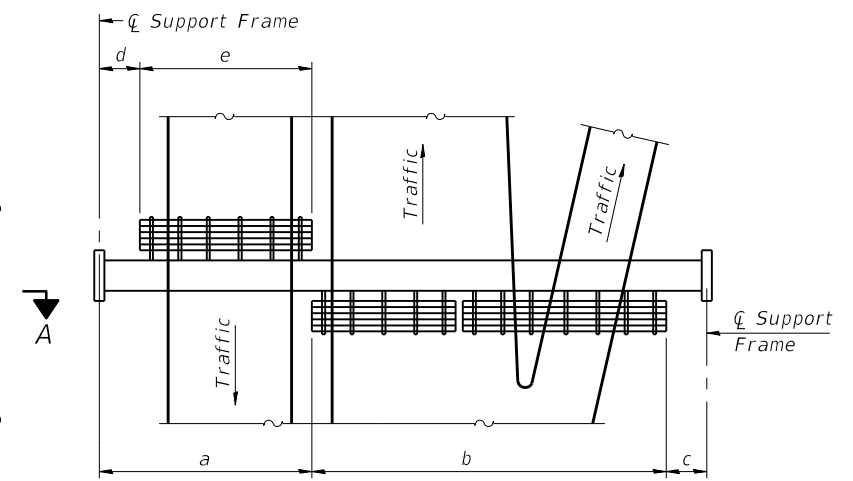
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	29
			CONTRACT NO. 46499	
ILLINOIS				

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**TYPICAL FRONT ELEVATION**  
 With lights and handrail omitted for clarity.  
 For Section B-B, see Base Sheet 05-A-10.



**PLAN WALKWAY AND HANDRAIL SKETCH**  
 (Road plan beneath truss varies)

**BRACKET TABLE**

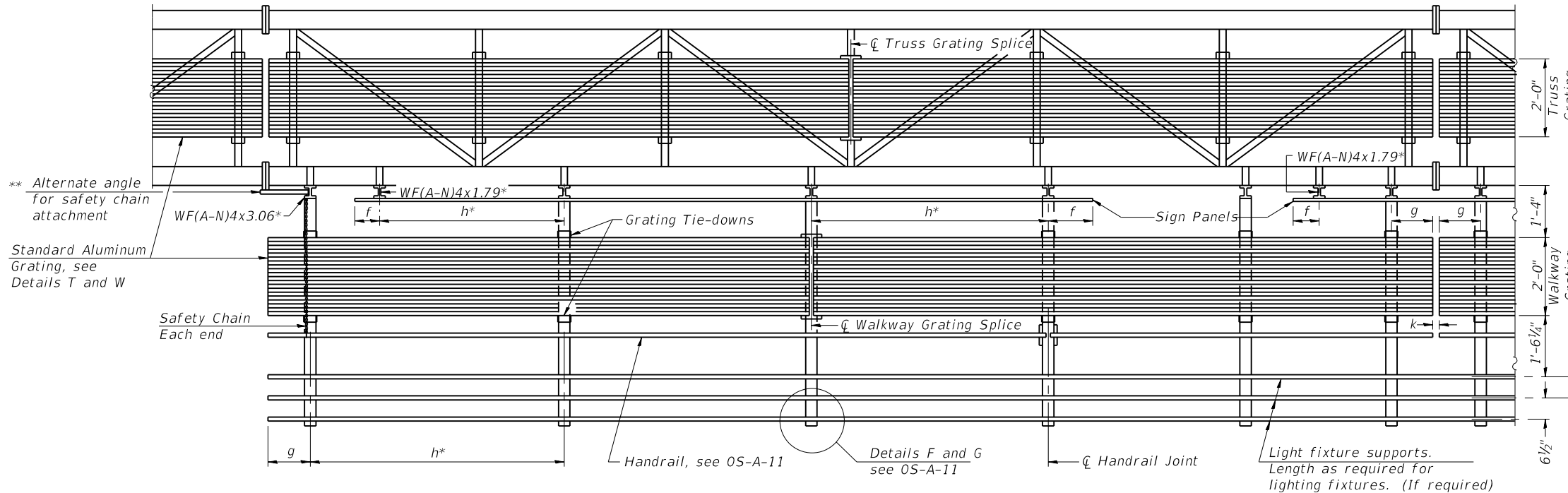
WF(A-N)4x1.79 or WF(A-N)4x3.06 ASTM B308, Alloy 6061-T6		
Sign Width		Number Brackets Required
Greater Than	Less Than or Equal To	
	8'-0"	2
8'-0"	14'-0"	3
14'-0"	20'-0"	4
20'-0"	26'-0"	5
26'-0"	32'-0"	6

Notes:  
 \* Space walkway brackets WF(A-N)4x3.06 and sign brackets WF(A-N)4x1.79 for efficiency and within limits shown:  
 f = 12" maximum, 4" minimum (End of sign to  $\bar{C}$  of nearest bracket)  
 g = 12" maximum, 4" minimum (End of walkway grating to  $\bar{C}$  of nearest support bracket)  
 h = 6'-0" maximum ( $\bar{C}$  to  $\bar{C}$  sign and/or walkway support brackets, WF(A-N)4x1.79 or WF(A-N)4x3.06)  
 k = 2" maximum gap between adjacent walkway grating sections and handrail ends

\*\* If walkway bracket at safety chain location is behind sign, add angle to bracket, see Alternate Safety Chain Attachment on Base Sheet 05-A-11.

For Details T and W, Section B-B and Grating Splice Details see Base Sheet 05-A-10.

For Handrail Details see Base Sheet 05-A-11.



**SECTION A-A**

Handrail and walkway shall span a minimum of three brackets between splices and/or gap joints. Place all sign and walkway brackets as close to panel points as practical. Handrail joints, grating, and light support splices placed as needed.

Structure Number	Station	a (Ft)	b (Ft)	c (Ft)	d (Ft)	e (Ft)	Walkway Grating and Handrail Lengths (Ft)
7S0251057R157.3	5021+35	35.50	44.50	30.00	N/A	N/A	44.50
7S0581072L133.8	297+85	35.00	56.00	29.00	N/A	N/A	56.00
7S058U036L031.0	610+80	19.00	46.00	15.00	N/A	N/A	46.00
7S058U036L031.5	637+17	16.00	31.50	17.50	N/A	N/A	31.50
7S058U036R030.2	567+35	32.50	49.00	18.50	N/A	N/A	49.00
7S058U051L010.65	881+85	32.50	51.00	16.50	N/A	N/A	51.00
7S015S016R008.07	101+55	8.00	61.00	11.00	N/A	N/A	61.00
7S0581072R140.8	137+88	12.50	46.00	21.50	N/A	N/A	46.00
7S0581072L134.3	324+15	29.50	43.50	27.00	N/A	N/A	43.50
7S051U050R011.10	1512.25	30.00	42.00	38.00	N/A	N/A	42.00

Truss grating to facilitate inspection shall run full length (center to center of support frames)  $\pm 12"$  on overhead trusses. Cost of truss grating is included in "Overhead Sign Structure".

Walkway and Truss Grating width dimensions are nominal and may vary  $\pm 1/2"$  based on available standard widths.

05-A-9

2-17-2017

USER NAME = stefenmk	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 5/24/2018	CHECKED -	REVISED -
	DATE -	REVISED -

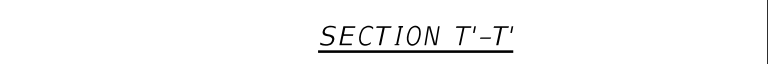
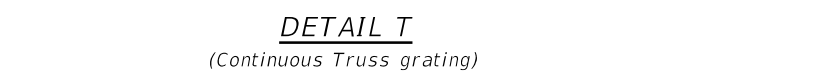
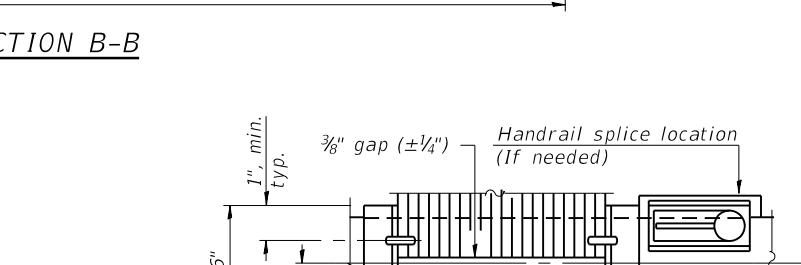
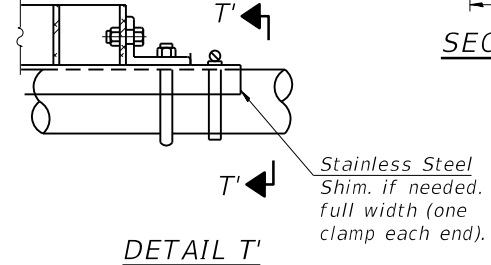
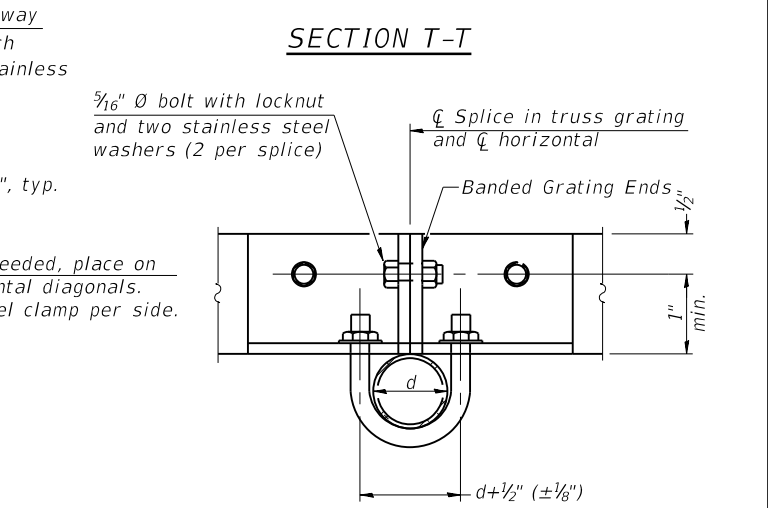
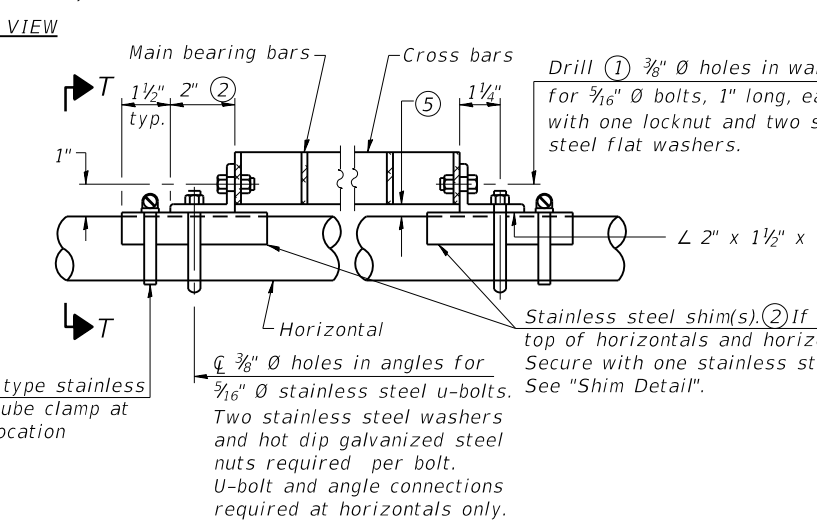
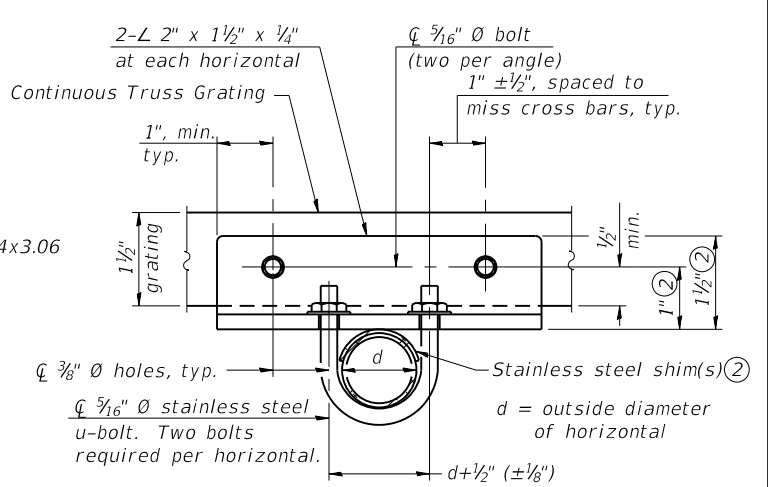
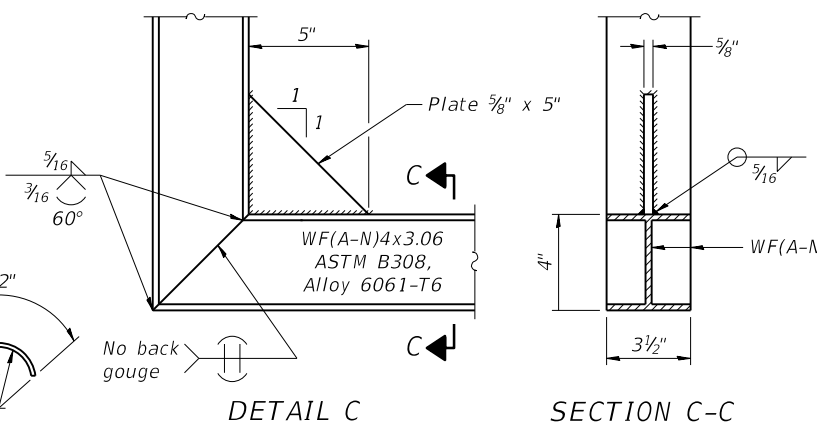
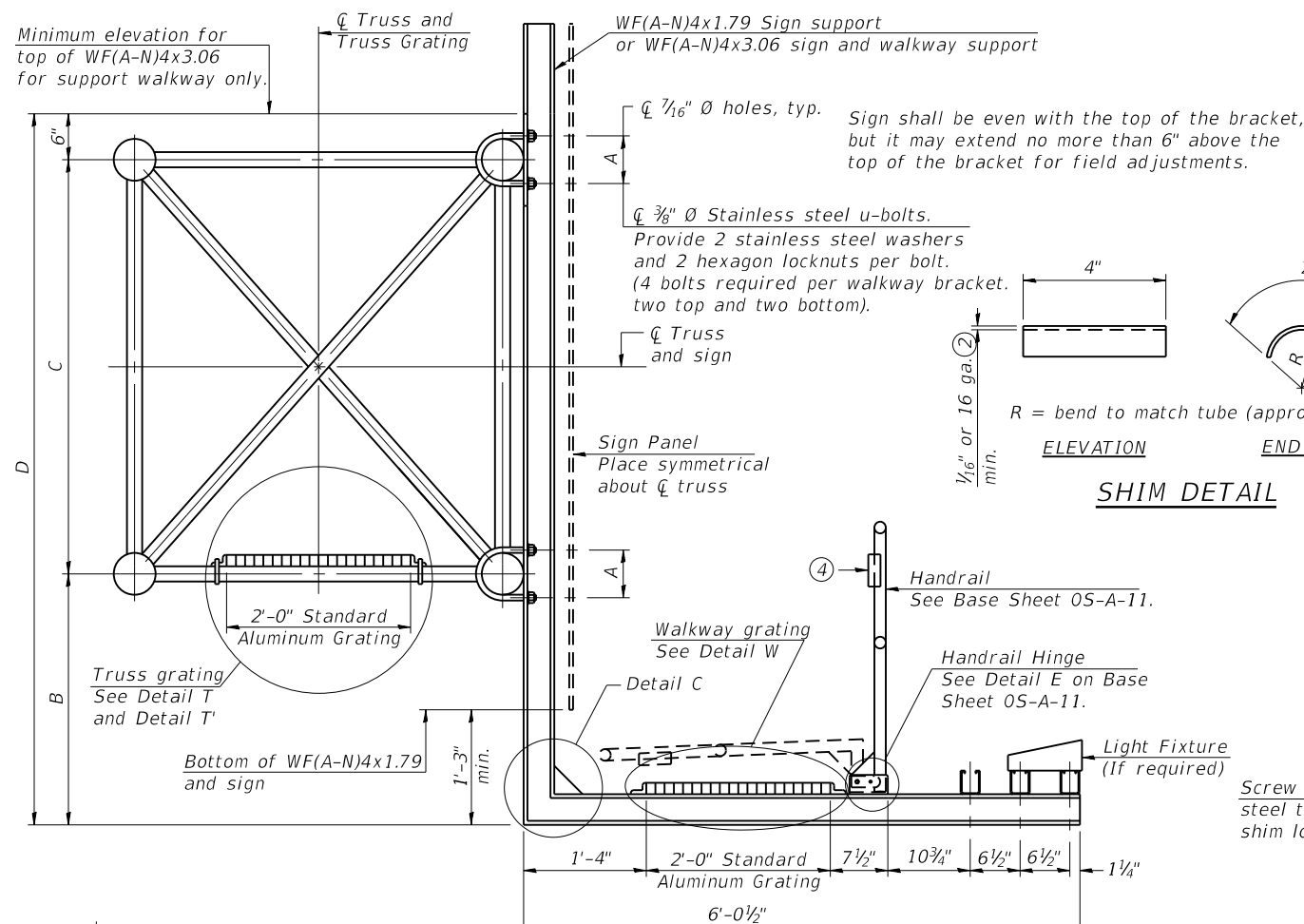
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES  
 ALUMINUM WALKWAY DETAILS**

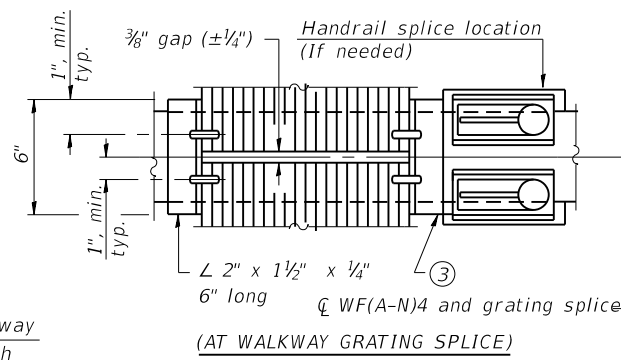
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	30
			CONTRACT NO. 46499	
ILLINOIS				

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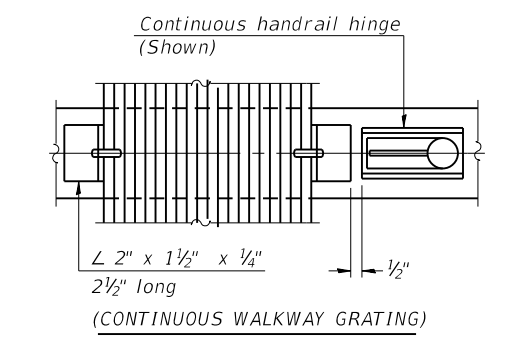
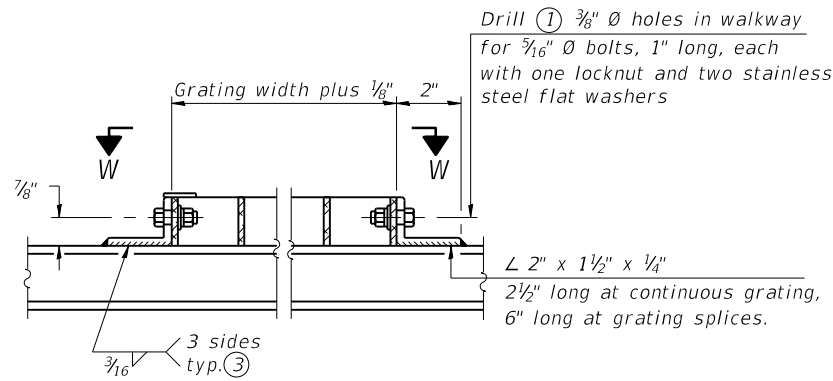
**DETAIL T'**  
(Truss grating splice)  
Details not shown same as Detail T.  
Alternate materials may be used subject to the Engineer's review and approval.



**SPECIFICATIONS FOR STANDARD ALUMINUM GRATING**  
Main Bearing Bars shall be 3/16" x 1 1/2" on 1 3/16" centers and conform to ASTM B221 Alloy 6061-T6.  
Cross bars shall be 3/16" x 1 1/2" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.  
OR  
Aluminum Grating with modified "t" sections for main bearing bars shall meet the following requirements:  
Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in.<sup>3</sup> per bar, a depth of 1 1/2", spaced on 1 3/16" centers.  
Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

Structure Number	Station	A (Inch)	B (Ft)	C (Ft)	D (Ft)
7S0251057R157.3	5021+35	7.50	4.00	7.00	11.50
7S0581072L133.8	297+85	7.50	3.75	7.00	11.25
7S058U036L031.0	610+80	5.50	3.75	4.50	8.75
7S058U036L031.5	637+17	5.50	4.50	4.50	9.50
7S058U036R030.2	567+35	6.00	4.50	4.50	9.50
7S058U051L010.65	881+85	6.00	2.75	4.50	7.75
7S015S016R008.07	101+55	5.50	3.75	4.50	8.75
7S0581072R140.8	137+88	5.50	5.00	4.50	10.00
7S0581072L134.3	324+15	7.50	6.00	7.00	13.50
7S051U050R011.10	1512+25	7.50	4.00	7.00	11.50

- Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.
- If Handrail Joint present, weld angle to WF(A-N)4 and 1/4" extension bars. (See Base Sheet OS-A-11.)
- L 1/8" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.
- Tube to grating gap may vary from 0 to 1/2", max. to align walkway, allow for camber, etc.
- Based on actual height of tallest sign given on OS-A-1.



**DETAIL W**  
(Walkway grating)

**SECTION W-W**  
(CONTINUOUS WALKWAY GRATING)

05-A-10 2-17-2017

USER NAME = steffenk	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 5/24/2018	CHECKED -	REVISED -
	DATE -	REVISED -

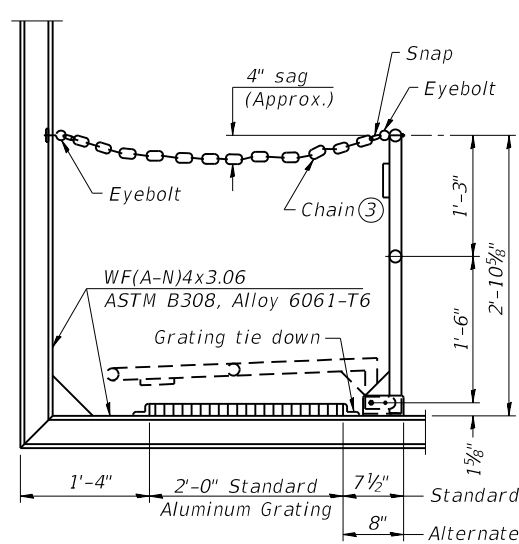
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES  
ALUMINUM WALKWAY DETAILS**

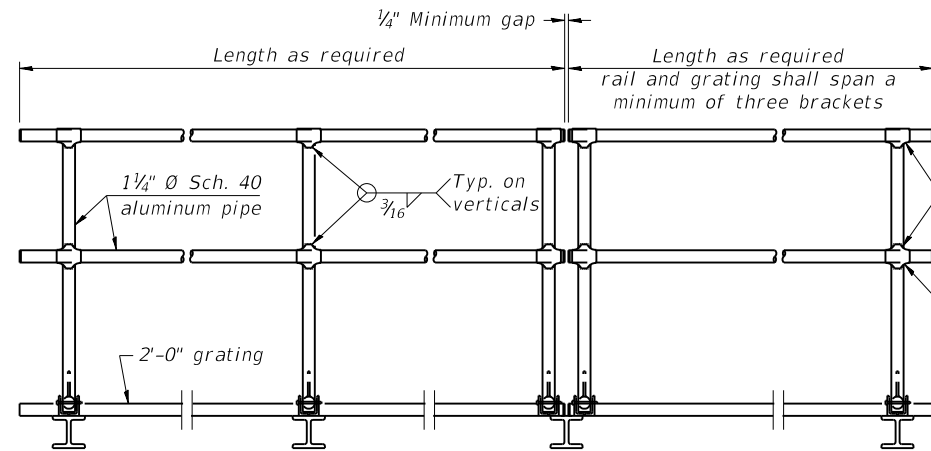
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	31
CONTRACT NO. 46499			ILLINOIS	

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**SIDE ELEVATION**  
(Showing safety chain w/o sign)

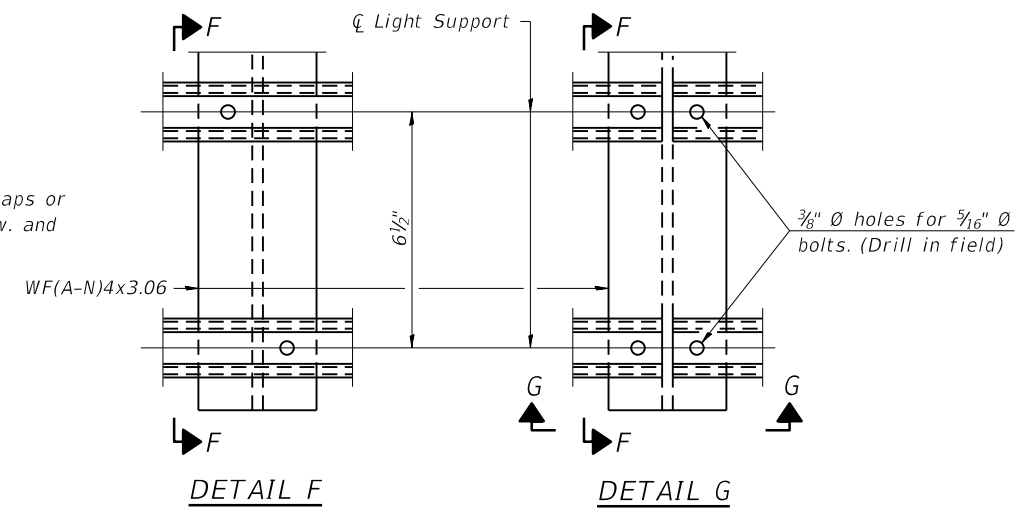


**FRONT ELEVATION**

**HANDRAIL DETAILS**

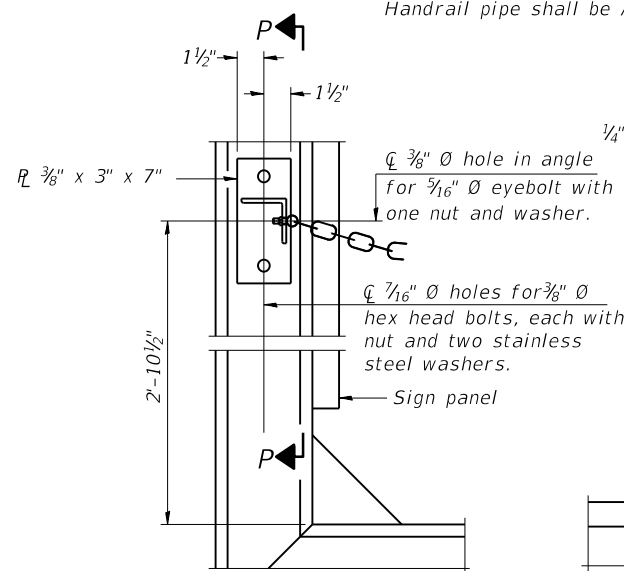
Handrail pipe shall be ASTM B241 or B429, Alloy 6063-T6 or Alloy 6061-T6.

- ① Install standard force-fit end caps or weld 1/8" end plates with 1/8" c.f.w. and grind smooth. (All rail ends)
- ② Horizontal handrail member shall be continuous thru fitting. Provide 7/16" Ø hole in fitting for 3/8" Ø bolt. Field drill 7/16" Ø hole in horizontal rail member. Provide locknut and two stainless steel washers for bolt. (Use 5/16" eyebolts in 7/16" Ø holes on top rail at ends only.)



**DETAIL F**

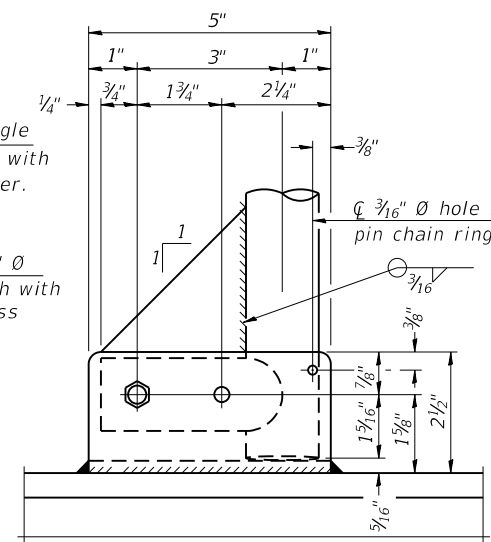
**DETAIL G**



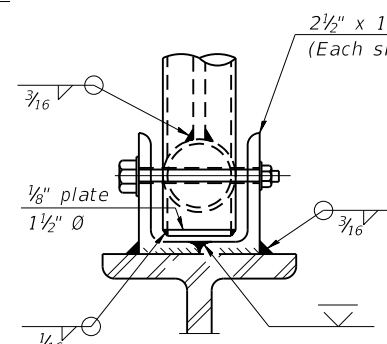
**ALTERNATE SAFETY CHAIN ATTACHMENT**

(With Sign Present)

Items not shown same as "Side Elevation" of "Handrail Details"

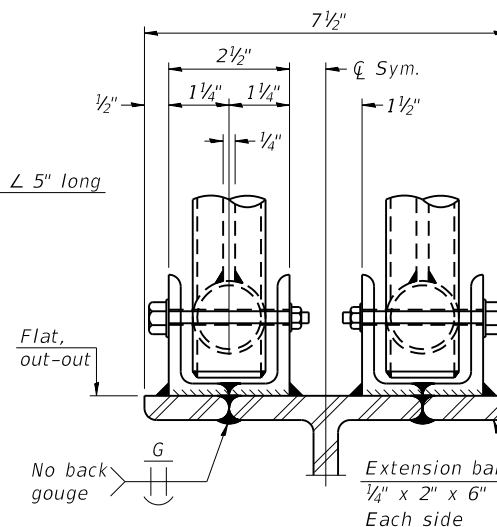


**SIDE ELEVATION**

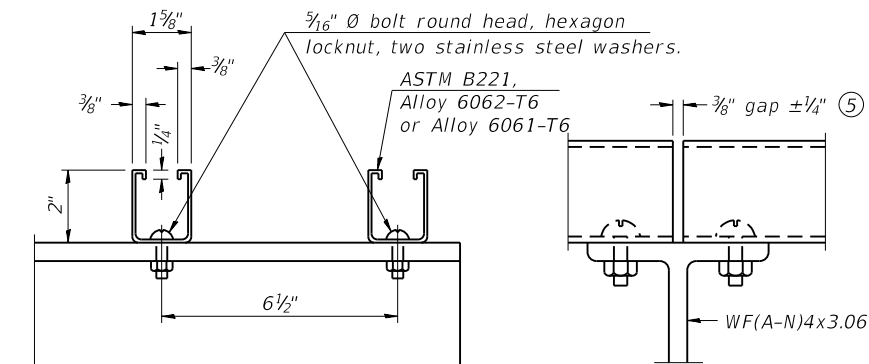


**FRONT ELEVATION**

See "Elevation" at right for dimensions.



**ELEVATION AT HANDRAIL JOINT** ④

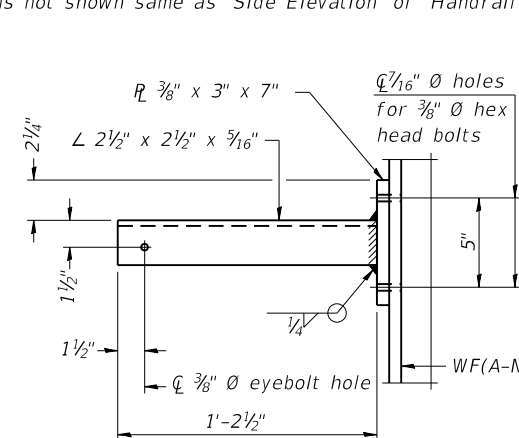


**SECTION F-F**

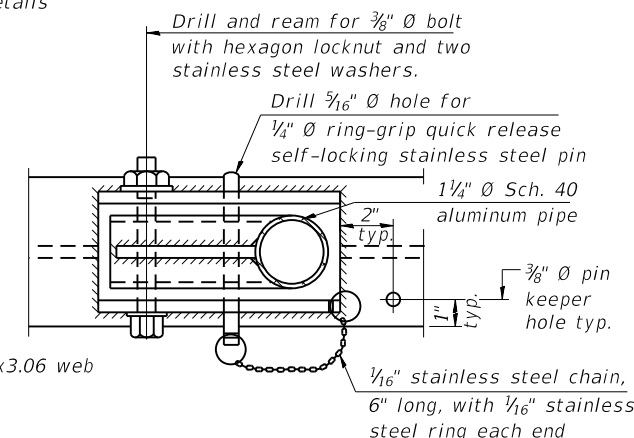
**SECTION G-G**

**LIGHTING FIXTURE MOUNTS (IF REQUIRED)**

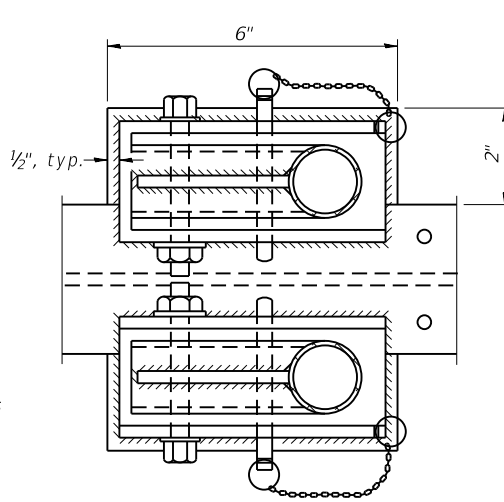
- ⑤ Field cut ends of light support channels shall be free of burrs or hazardous projections and coated with zinc-rich primer or equivalent.



**SECTION P-P**

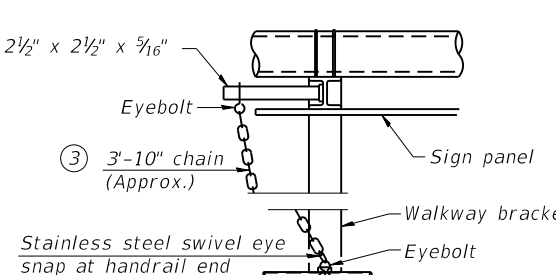


**PLAN**  
**DETAIL E HANDRAIL HINGE**



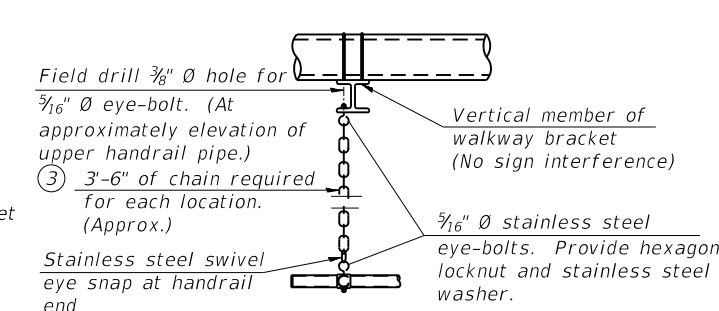
**PLAN AT HANDRAIL JOINT**

Details not shown same as "PLAN"



**ALTERNATE SAFETY CHAIN ATTACHMENT**

Details not shown similar to "Safety Chain" Details (Walkway omitted for clarity)



**SAFETY CHAIN**

One required for each end of each walkway.

- ③ 3/16" Type 304L stainless steel chain, approximately 12 links per foot.
- ④ Extrusions may be used in lieu of the details shown, with approval of the Engineer.

05-A-11

2-17-2017

USER NAME = stefenmk	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/15/2018	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES**  
**ALUMINUM HANDRAIL DETAILS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	32
			CONTRACT NO. 46499	
ILLINOIS				



**BAR LIST - EACH FOUNDATION**

Bar	Number	Size	Length	Shape
v4(E)	16	#9	F less 5"	—
#4 bar spiral (E) - see Side Elevation				

**NOTES:**

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

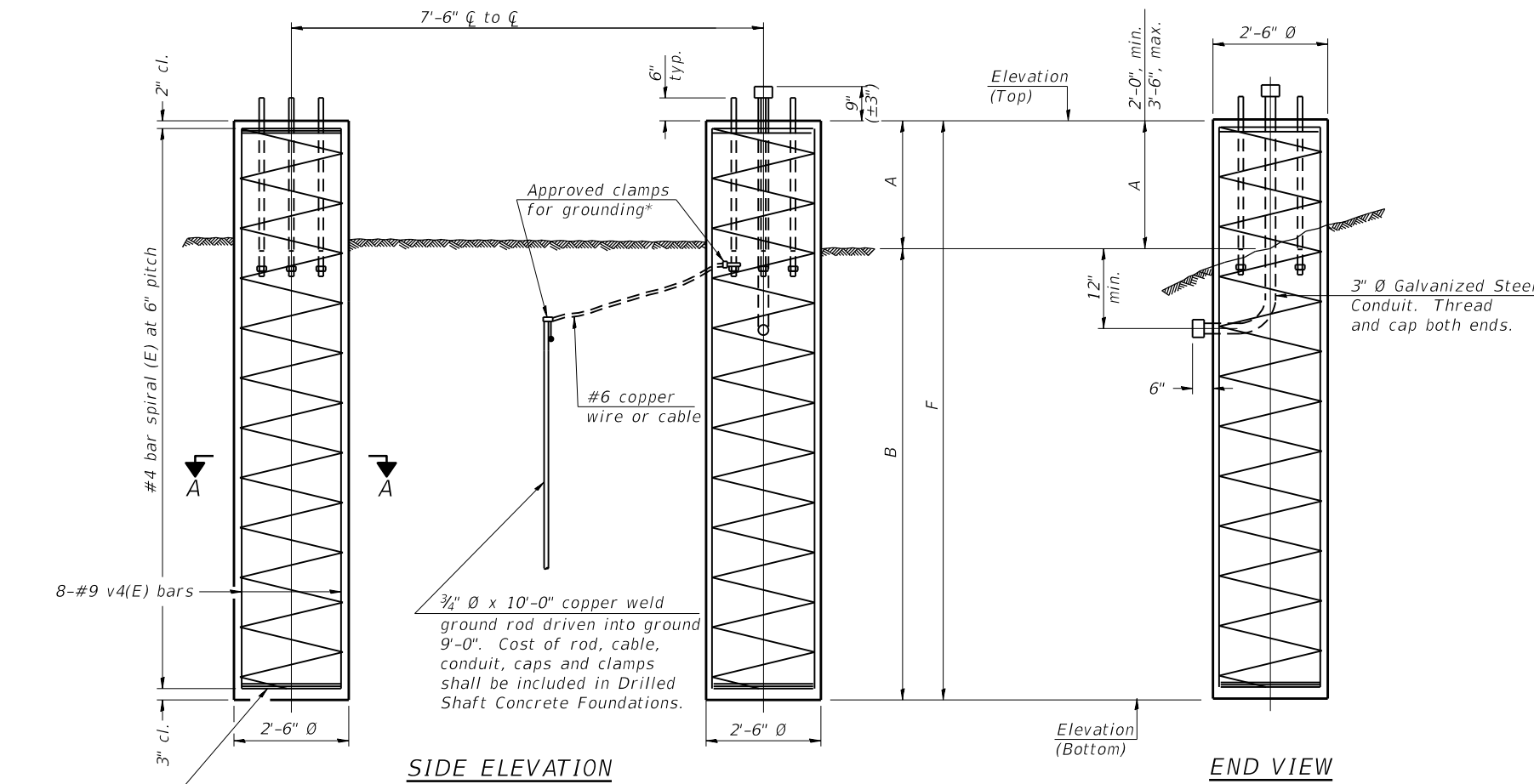
No sonotubes or decomposable forms shall be used below the lower conduit entrance.

Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

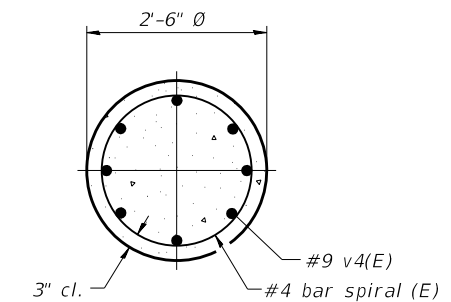
Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.



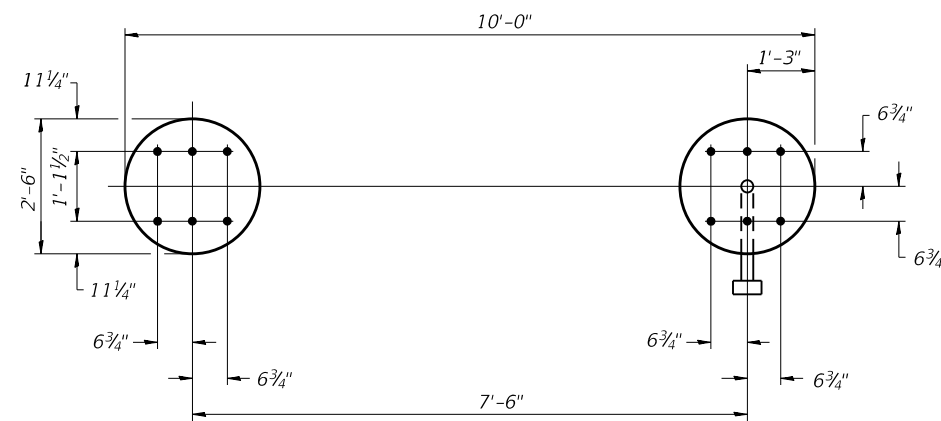
**SIDE ELEVATION**

**END VIEW**



**SECTION A-A**

3 hoops minimum top and bottom



**PLAN**

For anchor rod size and placement, see Support Frame Detail Sheet.

\* Anchor rod shall be ground or filed to bright metal at clamp and cable connection location.

**DETAILS FOR 8" Ø SUPPORT FRAME TYPE I-A TRUSS**

Structure Number	Station	Left Foundation					Right Foundation					Class DS Concrete (Cu. Yds.)
		Elevation Top (Ft)	Elevation Bottom (Ft)	A (Ft)	B (Ft)	F (Ft)	Elevation Top (Ft)	Elevation Bottom (Ft)	A (Ft)	B (Ft)	F (Ft)	
7S058U036L031.5	637+17	100.68	84.47	2.71	13.50	16.21	100.68	85.18	2.00	13.50	15.50	11.50

054-F2

2-17-2017

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	DRAWN -	REVISED -
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PLOT DATE = 3/15/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES  
DRILLED SHAFT DETAILS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	33
			CONTRACT NO. 46499	
ILLINOIS				

**BAR LIST - EACH FOUNDATION**

Bar	Number	Size	Length	Shape
v4(E)	24	#9	F less 5"	—
#4 bar spiral (E) - see Side Elevation				

**NOTES:**

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength ( $Q_u$ ) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

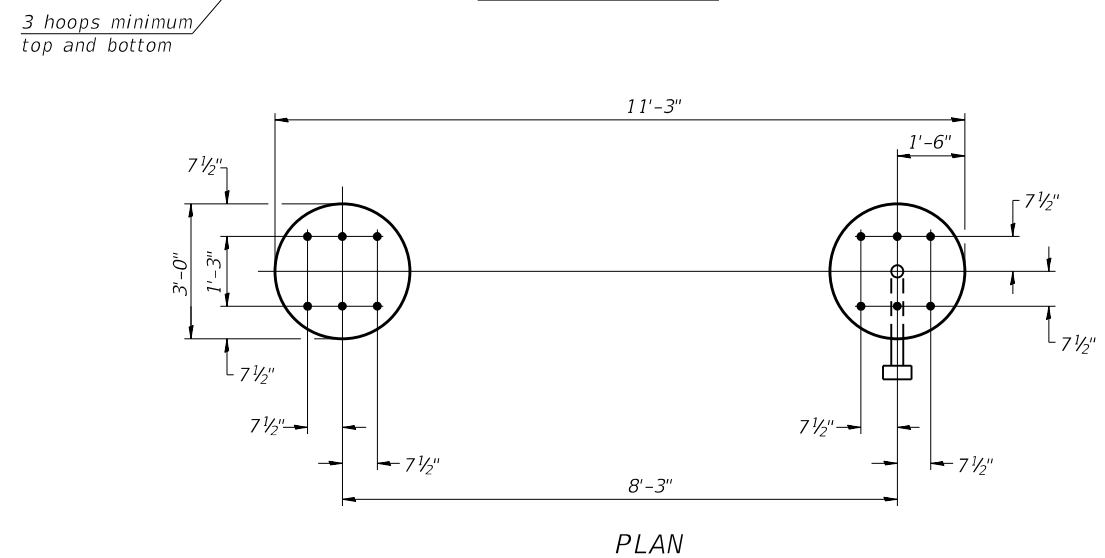
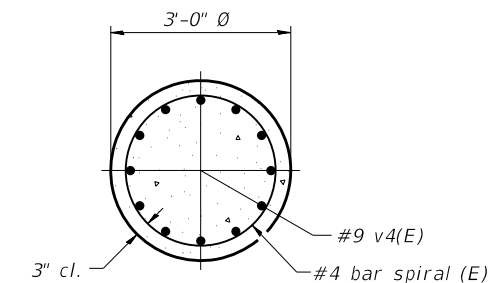
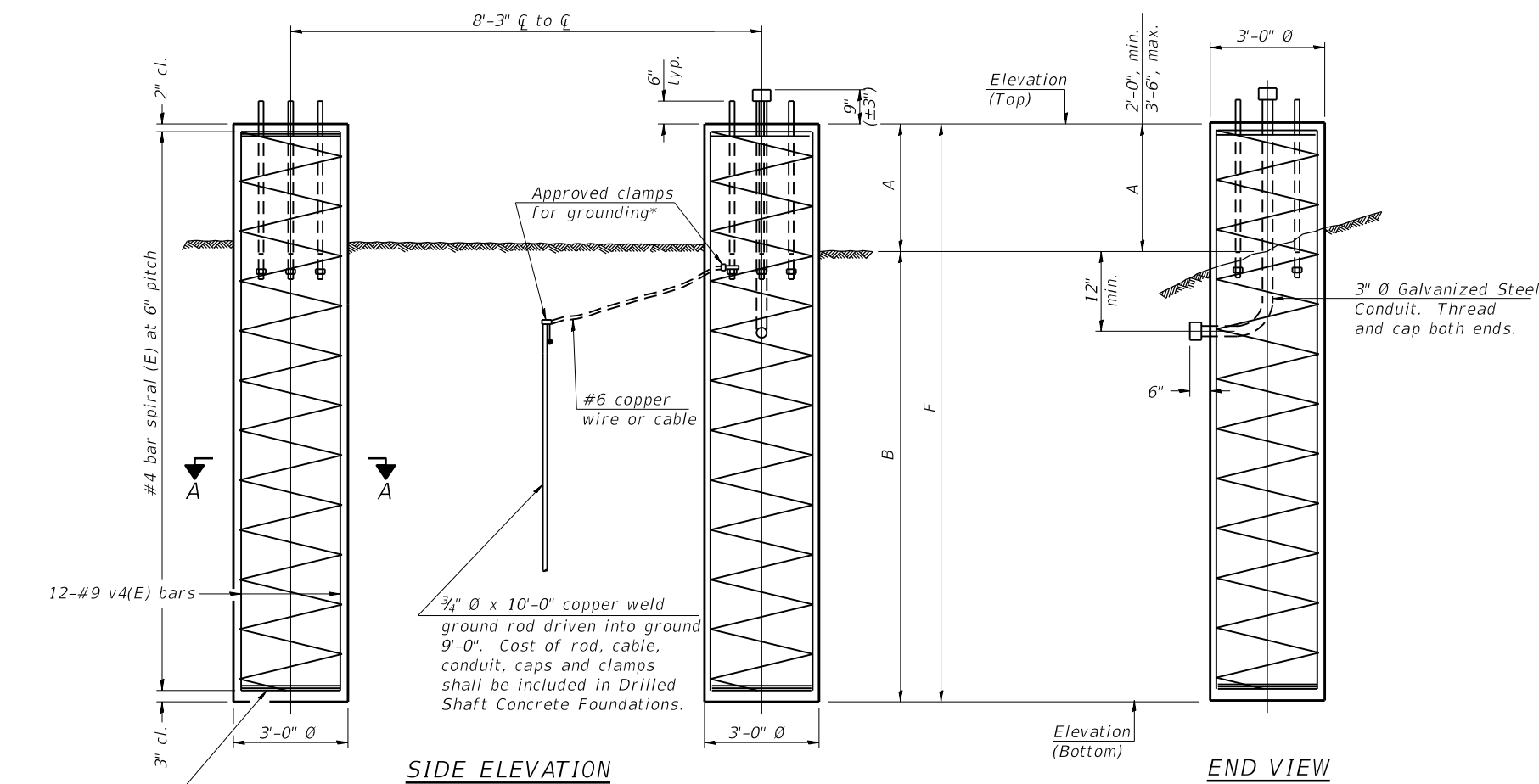
If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.



For anchor rod size and placement, see Support Frame Detail Sheet.

\* Anchor rod shall be ground or filed to bright metal at clamp and cable connection location.

**DETAILS FOR 10" Ø SUPPORT FRAME  
TYPE I-A or II-A TRUSS**

Structure Number	Station	Left Foundation					Right Foundation					Class DS Concrete (Cu. Yds.)
		Elevation Top (Ft)	Elevation Bottom (Ft)	A (Ft)	B (Ft)	F (Ft)	Elevation Top (Ft)	Elevation Bottom (Ft)	A (Ft)	B (Ft)	F (Ft)	
7S058U036L031.0	610+80	100.10	81.60	2.00	16.50	18.50	100.10	80.34	3.26	16.50	19.76	20.00
7S058U036R030.2	567+35	99.17	80.69	2.00	16.50	18.50	99.17	78.29	4.38	16.50	20.88	20.60
7S058U051L010.65	881+85	98.83	69.69	2.14	27.00	29.14	98.83	69.83	2.00	27.00	29.00	30.50
7S015S016R008.07	101+55	99.44	80.84	2.00	16.50	18.50	99.44	80.00	2.94	16.50	19.44	19.90
7S058I072R140.8	137+88	98.59	80.09	2.00	16.50	18.50	98.59	79.60	2.49	16.50	18.99	19.60

054-F3

2-17-2017

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	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/22/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES  
DRILLED SHAFT DETAILS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	34
ILLINOIS			CONTRACT NO. 46499	

**BAR LIST - EACH FOUNDATION**

Bar	Number	Size	Length	Shape
v4(E)	24	#9	F less 5"	—
#4 bar spiral (E) - see Side Elevation				

**NOTES:**

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength ( $Q_u$ ) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

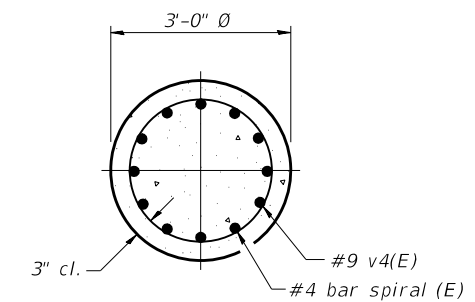
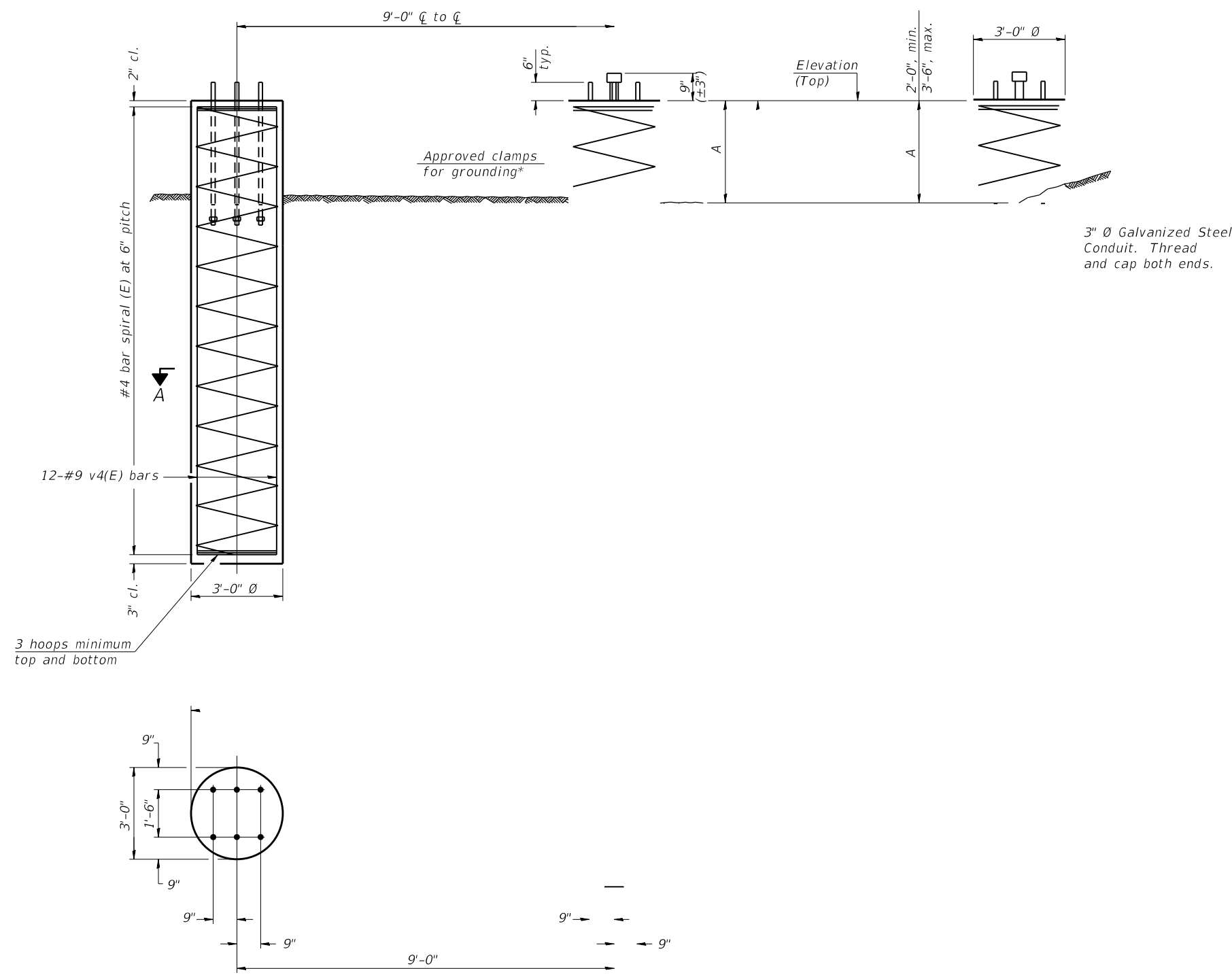
No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.

3" Ø Galvanized Steel Conduit. Thread and cap both ends.



**SECTION A-A**

**DETAILS FOR 12" Ø SUPPORT FRAME  
TYPE III-A TRUSS**

Structure Number	Station	Left Foundation					Right Foundation					Class DS Concrete (Cu. Yds.)
		Elevation Top (Ft)	Elevation Bottom (Ft)	A (Ft)	B (Ft)	F (Ft)	Elevation Top (Ft)	Elevation Bottom (Ft)	A (Ft)	B (Ft)	F (Ft)	
7S025I57R157.3	5021+35	96.39	66.84	3.05	26.50	29.55	96.39	67.89	2.00	26.50	28.50	30.40
7S058I072L133.8	297+85	96.68	76.39	2.29	18.00	20.29	96.68	76.68	2.00	18.00	20.00	21.10
7S058I072L134.3	324+15	97.52	77.52	2.00	18.00	20.00	97.52	76.71	2.81	18.00	20.81	21.40
7S051U050R011.10	1512+25	97.02	75.23	3.79	18.00	21.79	97.02	77.02	2.00	18.00	20.00	21.90

054-F4

2-17-2017

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	DRAWN -	REVISED -
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PLOT DATE = 3/22/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES  
DRILLED SHAFT DETAILS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	35
			CONTRACT NO. 46499	
ILLINOIS				

**GENERAL NOTES**

**DESIGN:** AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

**CONSTRUCTION:** Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

**LOADING:** 90 M.P.H. WIND VELOCITY

**WALKWAY LOADING:** Dead load plus 500 lbs. concentrated live load.

**DESIGN STRESSES:**

Field Units  
 $f' = 3,500$  p.s.i.  
 $f_y = 60,000$  p.s.i. (reinforcement)

**WELDING:** All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specifications.

**MATERIALS:** Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53. All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W\*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer. The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

**FASTENERS FOR ALUMINUM TRUSSES:** All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2) (d) of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

**U-BOLTS AND EYEBOLTS:** U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

**GALVANIZING:** All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

**ANCHOR RODS:** Shall conform to ASTM F1554 Gr. 105.

**CONCRETE SURFACES:** All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Concrete Sealer in accordance with the Standard Specifications.

**REINFORCEMENT BARS:** Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

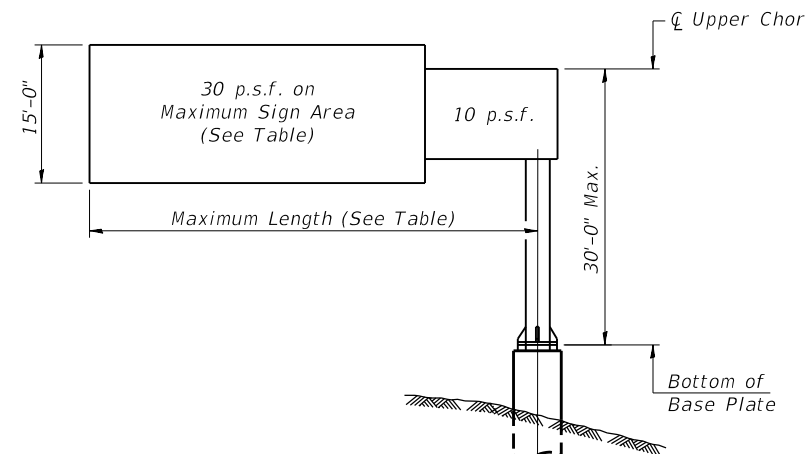
**FOUNDATIONS:** The contract unit price for Drilled Shaft Concrete Foundations shall include reinforcement bars complete in place.

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE I-C-A	FOOT	0.00
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE II-C-A	FOOT	28.00
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE III-C-A	FOOT	284.00
OVERHEAD SIGN STRUCTURE WALKWAY TYPE A	FOOT	188.00
DRILLED SHAFT CONCRETE FOUNDATIONS	CU. YDS	84.40

Structure Number	Station	Design Truss Type	Cantilever Length (L) (Ft)	Elev. A (Ft)	Dim. D (Ft)	D <sub>s</sub> (Ft)	Total Sign Area (SF)
7C025I070L087.2	1785+46	III-C-A	35.00	100.00	13.00	6.50	78.00
7C058U051R010.98	776+90	III-C-A	38.00	100.00	16.00	10.00	175.00
7C015I057L189.5	786+10	II-C-A	28.00	100.00	5.00	9.50	133.00
7C058I072R152.77	767+10	III-C-A	35.00	100.00	18.00	6.50	74.75
7C058I072L152.9	772+88	III-C-A	35.00	100.00	17.00	6.50	74.75
7C058U036L030.5	384+90	III-C-A	35.00	100.00	15.00	8.00	120.00
7C058U051L009.8	1170+10	III-C-A	38.00	100.00	4.00	7.00	201.00
7C058UB51R000.41	1139+95	III-C-A	38.00	100.00	4.00	7.50	180.00
7C058U051L118.9	130+85	III-C-A	30.00	99.62	21.00	7.00	84.00

Truss Type	Maximum Sign Area	Maximum Length
I-C-A	170 Sq. Ft.	25 Ft.
II-C-A	340 Sq. Ft.	30 Ft.
III-C-A	400 Sq. Ft.	40 Ft.



**DESIGN WIND LOADING DIAGRAM**

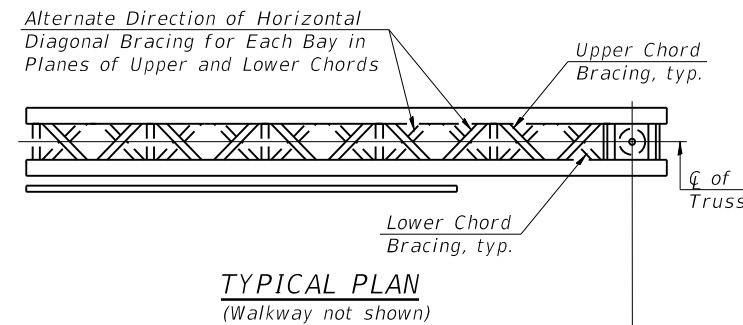
Parameters shown are basis for I.D.O.T. Standards. Installations not within dimensional limits shown require special analysis for all components.

Note:

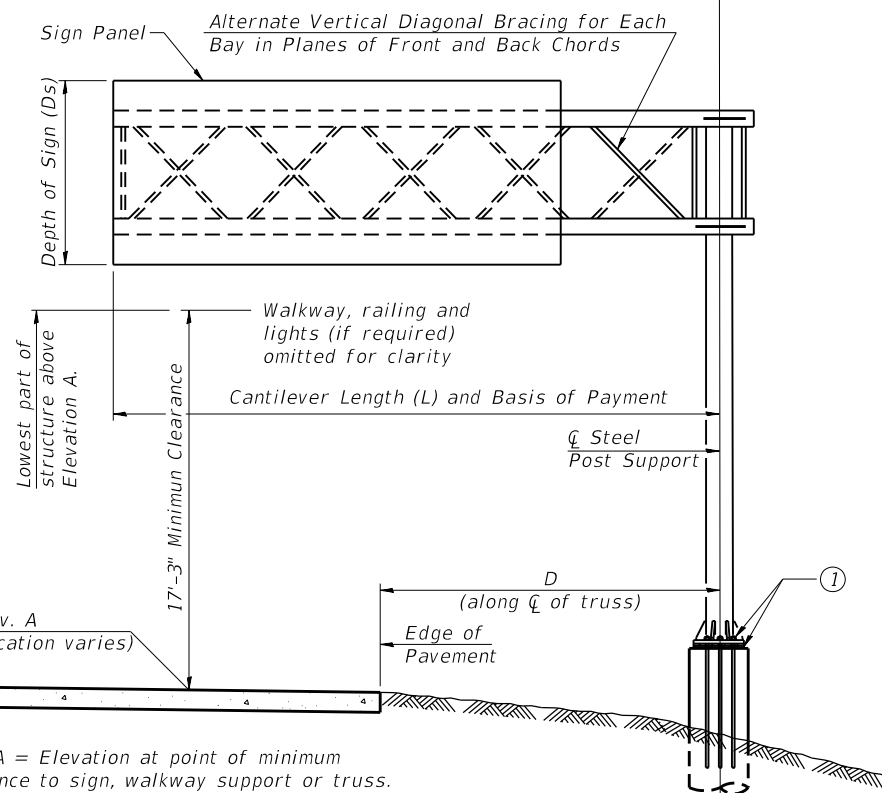
Trusses shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The contractor is responsible for maintaining the configuration and protection of the trusses.

① After adjustments to level truss and insure adequate vertical clearance, all top and leveling nuts shall be tightened against the base plate with a minimum torque of 200 lb.-ft. Stainless steel mesh shall then be placed around the perimeter of the base plate. Secure to base plate with stainless steel banding.

\* If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.



**TYPICAL PLAN**  
(Walkway not shown)



**TYPICAL ELEVATION**  
Looking in Direction of Traffic

Sign support structures may be subject to damaging vibrations and oscillations when sign panels are not in place during erection or maintenance of the structure. To avoid these vibrations and oscillations, consideration should be given to attaching temporary blank sign panels to the structure.

OSC-A-1 2-17-2017

USER NAME = stefenmk	DESIGNED -	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 5/24/2018	CHECKED -	REVISED -
	DATE -	REVISED -

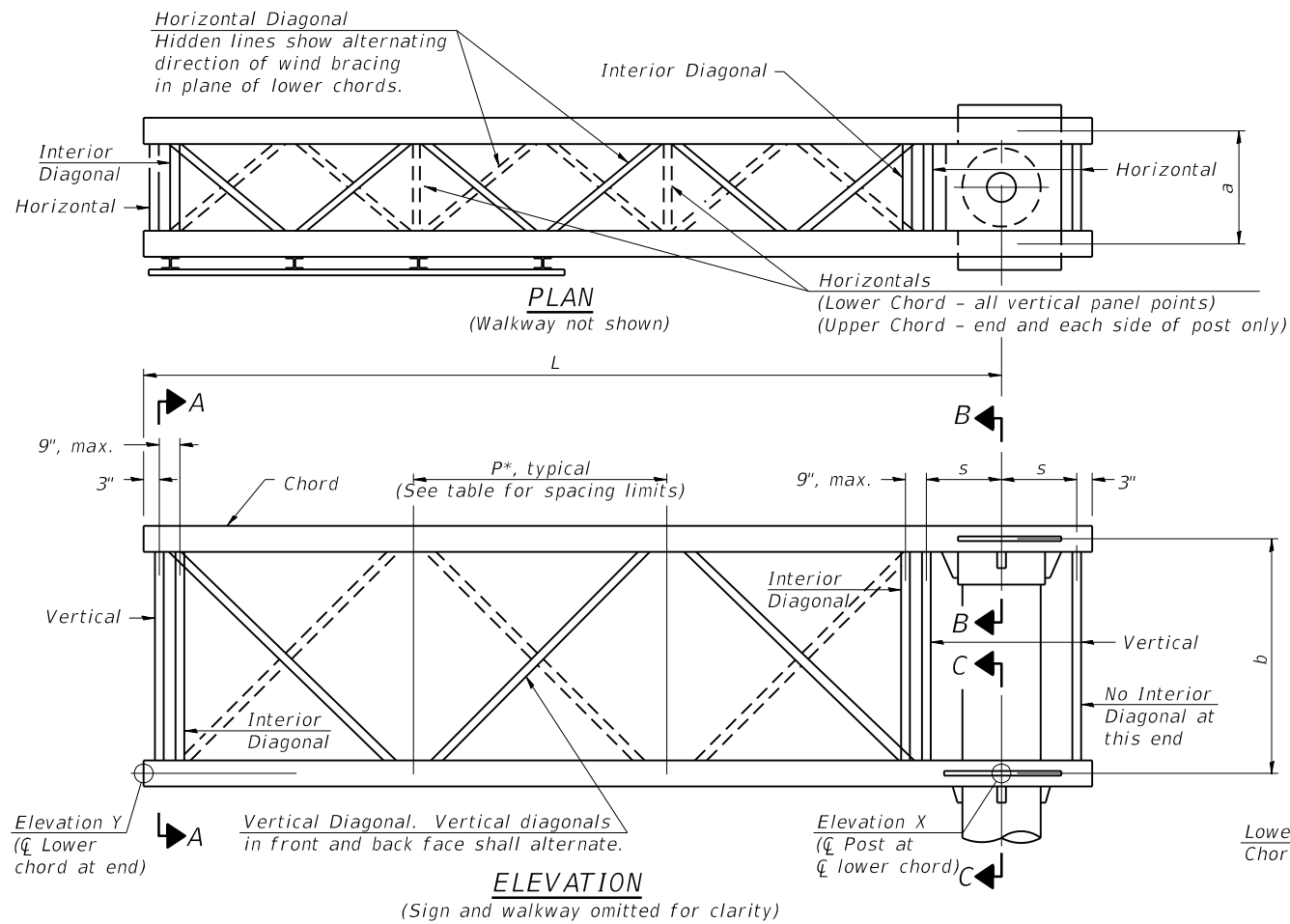
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CANTILEVER SIGN STRUCTURES - GENERAL PLAN & ELEVATION  
ALUMINUM TRUSS & STEEL POST**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	36
			CONTRACT NO. 46499	
ILLINOIS				

MODEL: Default  
 FILE: \\s1108\B&E\IDNT\EC\Illinois\gov\PIV\DOT\Documents\10DOT Office\DI\erict 7\Projects\16099\CADD\Info\CAD\pkcses\16024-rh-020211.dgn  
 PROJECT: 16099



**TYPICAL TRUSS UNIT**

For Section B-B and Section C-C, see Base Sheet OSC-A-3.

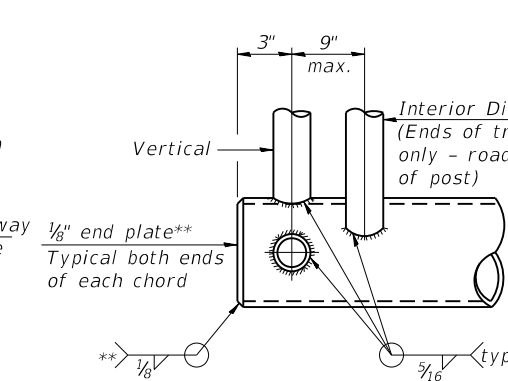
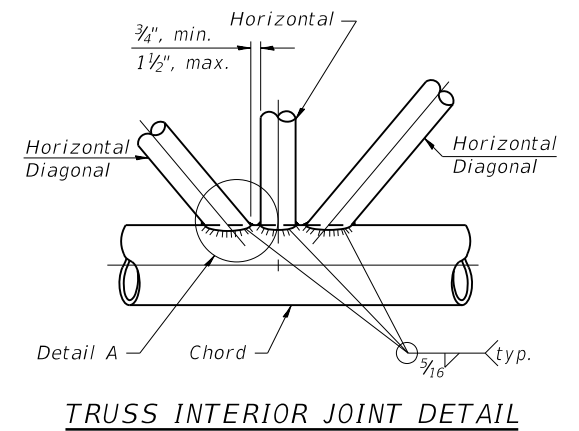
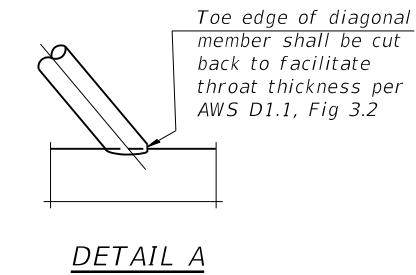
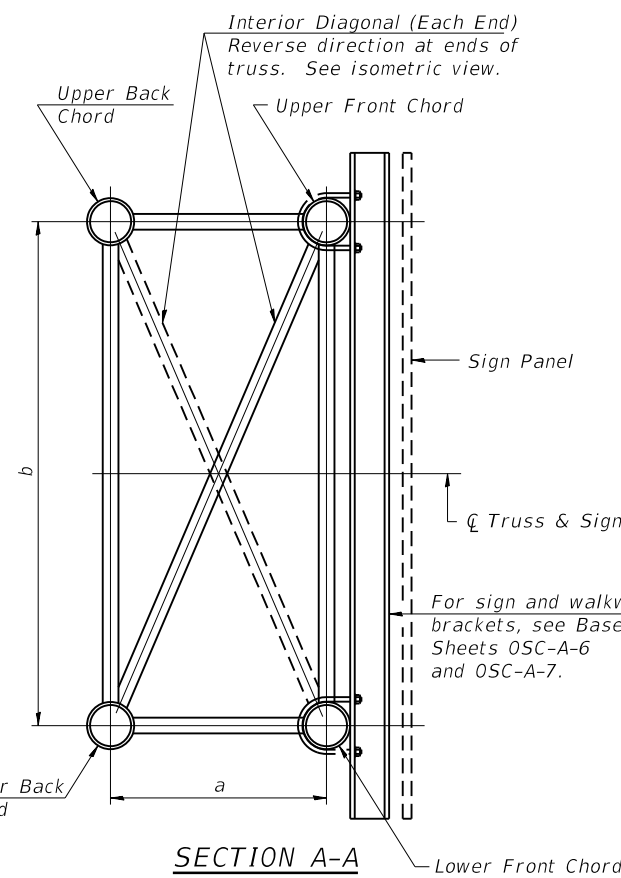
Note:  
There are twice as many horizontal diagonals as there are vertical diagonals.

**TRUSS UNIT TABLE**

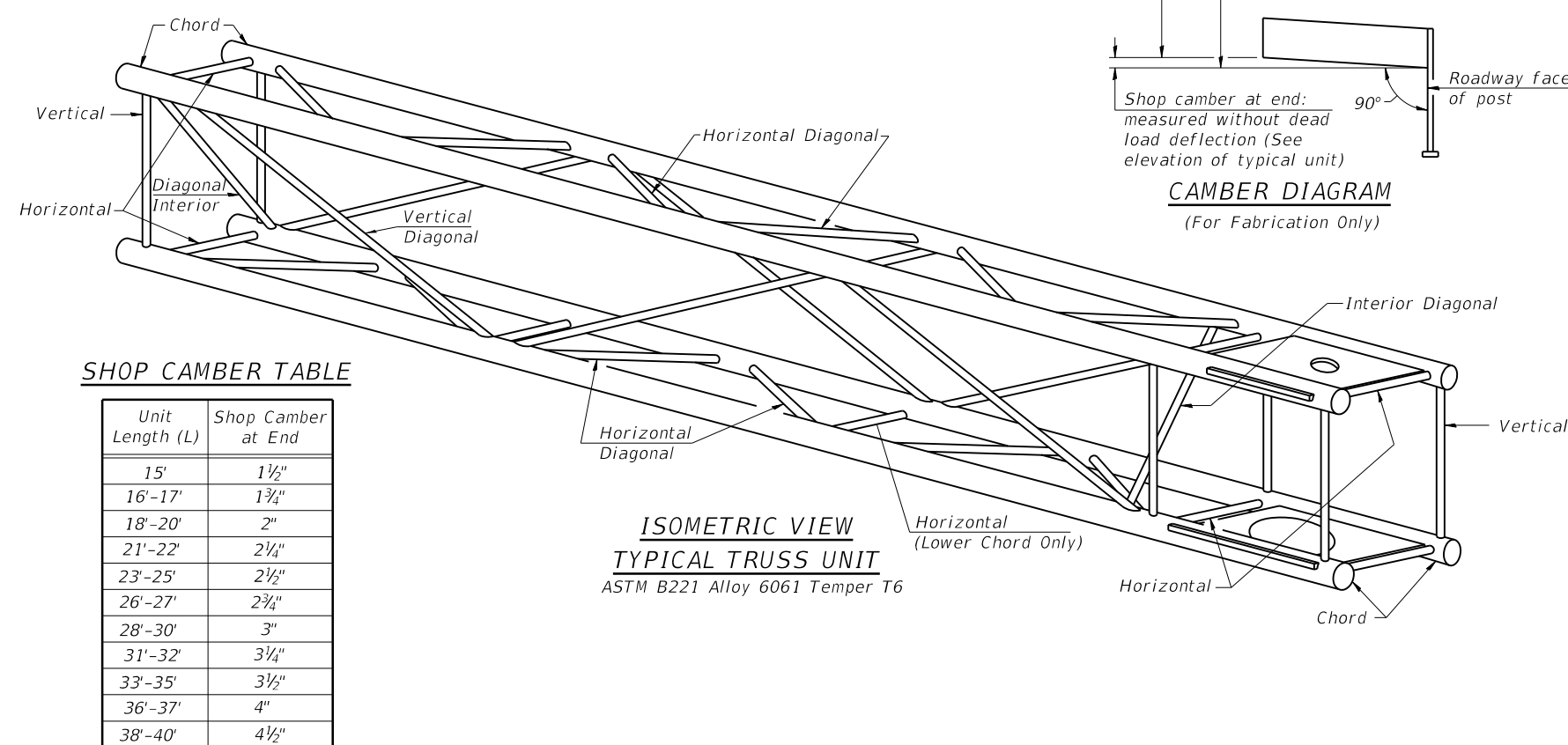
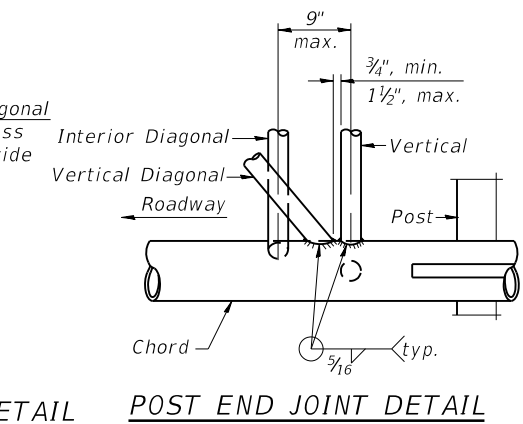
Truss Type	Dimension "a"	Dimension "b"	Dimension "s"	Limits for Panel Spacing (P)*	Up. & Low. Chord		Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals	
					O.D.	Wall	O.D.	Wall
I-C-A	24"	54"	16"	36" min. to 48" max.	5"	5/16"	2 1/2"	5/16"
II-C-A	36"	66"	21"	42" min. to 54" max.	6 1/2"	5/16"	3 1/4"	5/16"
III-C-A (35' Max.)	36"	84"	21"	48" min. to 66" max.	7"	3/8"	3 1/2"	3/8"
III-C-A (>35' to 40')	36"	84"	21"	48" min. to 66" max.	8"	3/8"	3 1/2"	3/8"

$$*p = \frac{L-s-3"}{\# \text{ Panels}}$$

Structure Number	Station	Design Truss Type	Design Length (L) (Ft)	Number of Panels Per. Unit	Panel Length (*P) (Ft)
7C025I070L087.2	1785+46	III-C-A	35.00	7	4.71
7C058U051R010.98	776+90	III-C-A	38.00	7	5.14
7C015I057L189.5	786+10	II-C-A	28.00	6	4.33
7C058I072R152.77	767+10	III-C-A	35.00	7	4.71
7C058I072L152.9	772+88	III-C-A	35.00	7	4.71
7C058U036L030.5	384+90	III-C-A	35.00	7	4.71
7C058U051L009.8	1170+10	III-C-A	38.00	7	5.14
7C058UB51R000.41	1139+95	III-C-A	38.00	7	5.14
7C058U051L118.9	130+85	III-C-A	30.00	6	4.67

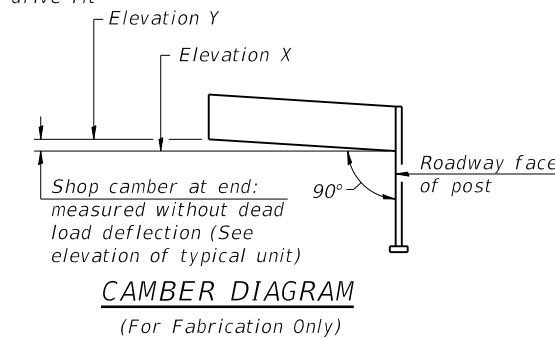


\*\* Contractor may alternatively use standard aluminum drive-fit cap to close ends. 1/2" Ø Drain hole in end plate / drive-fit cap.



**SHOP CAMBER TABLE**

Unit Length (L)	Shop Camber at End
15'	1 1/2"
16'-17'	1 3/4"
18'-20'	2"
21'-22'	2 1/4"
23'-25'	2 1/2"
26'-27'	2 3/4"
28'-30'	3"
31'-32'	3 1/4"
33'-35'	3 1/2"
36'-37'	4"
38'-40'	4 1/2"



OSC-A-2

2-17-2017

USER NAME = stefenmk	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 5/24/2018	CHECKED -	REVISED -
	DATE -	REVISED -

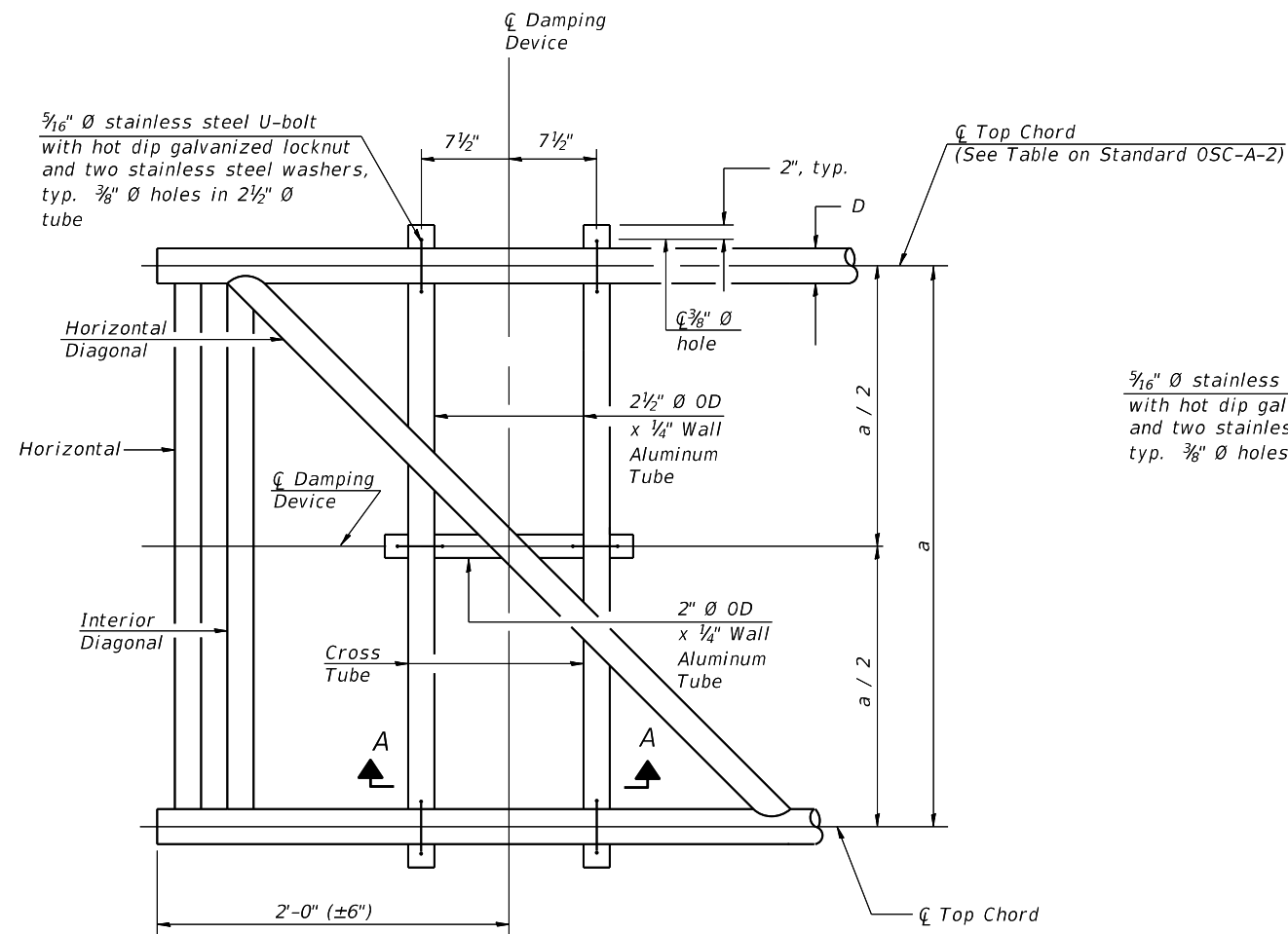
**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**CANTILEVER SIGN STRUCTURES - TRUSS DETAILS ALUMINUM TRUSS & STEEL POST**

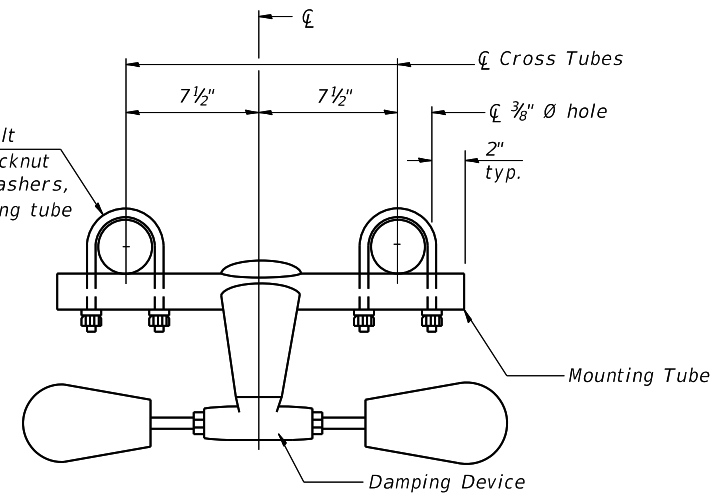
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	37
ILLINOIS			CONTRACT NO. 46499	

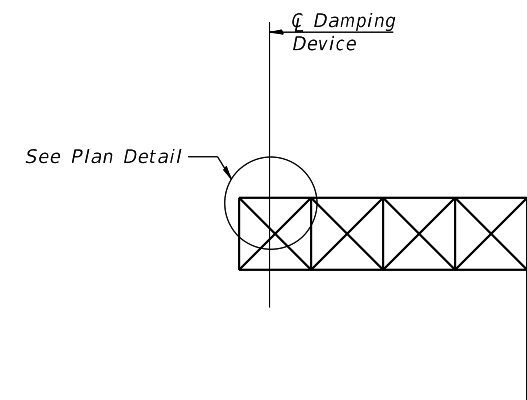
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**PLAN DETAIL**



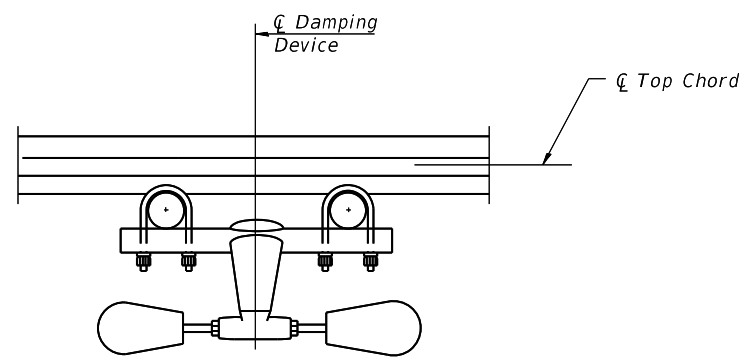
**TRUSS DAMPING DEVICE CONNECTION DETAIL**



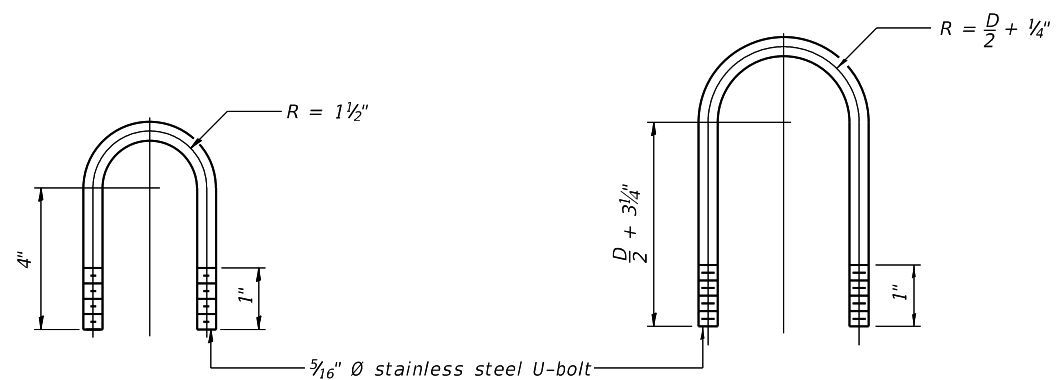
**ELEVATION**  
Aluminum Cantilever Sign Structure

**GENERAL NOTES**

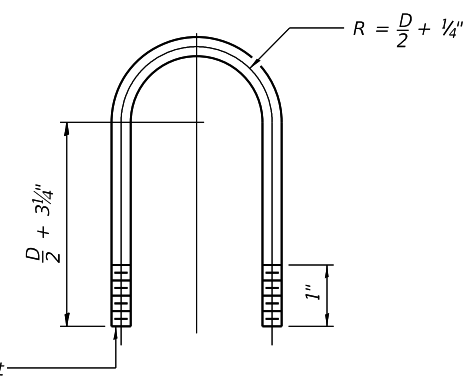
- Damper: One damper per truss. (31 lbs. Stockbridge-Type Aluminum-29" minimum between ends of weights)
- Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6



**SECTION A-A**



**DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL**  
(Typical)



**TOP CHORD TO CROSS TUBE U-BOLT DETAIL**  
(Typical)

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OSC-A-D

2-17-2017

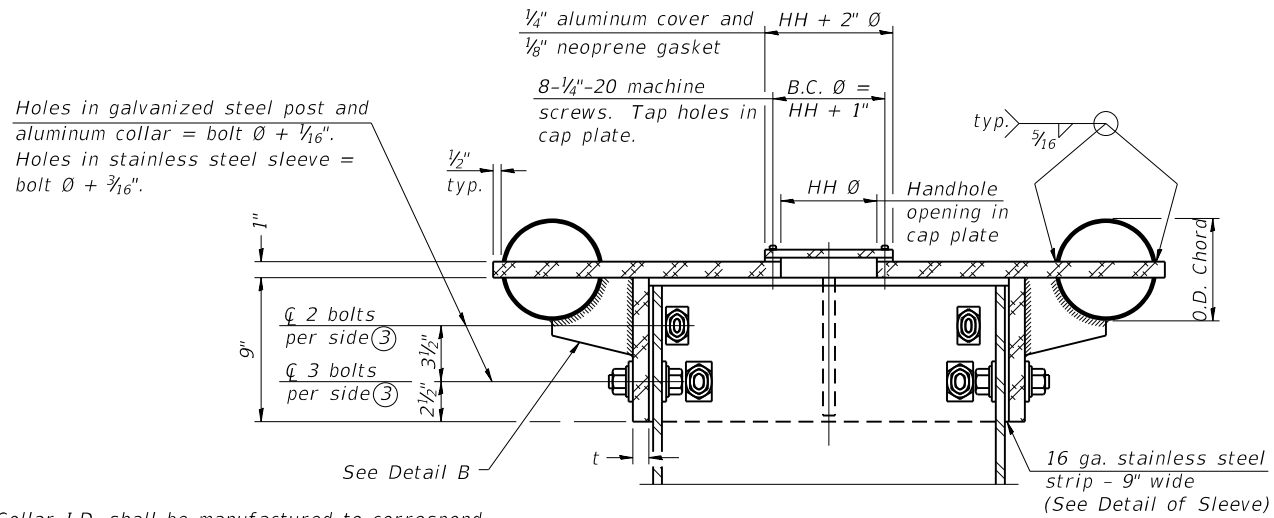
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PLOT DATE = 3/15/2018	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CANTILEVER SIGN STRUCTURE  
DAMPING DEVICE**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 46499	
ILLINOIS				

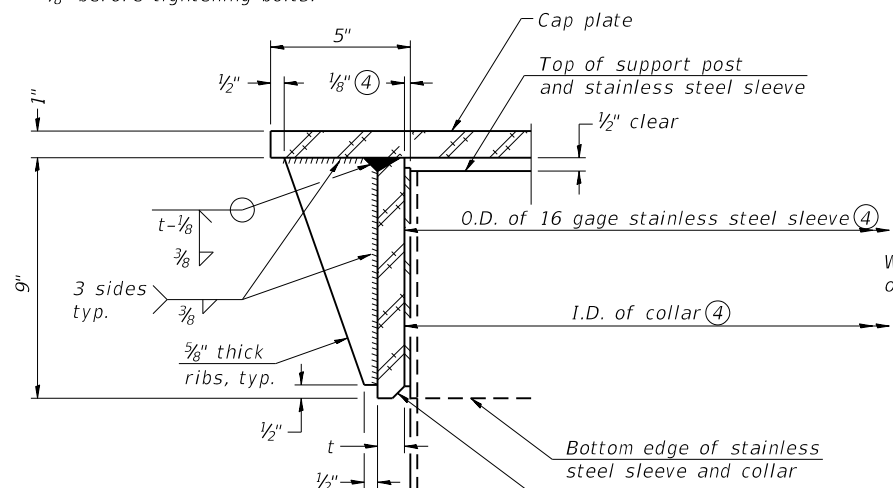


Holes in galvanized steel post and aluminum collar = bolt  $\varnothing + 1/16$ ".  
Holes in stainless steel sleeve = bolt  $\varnothing + 3/16$ ".

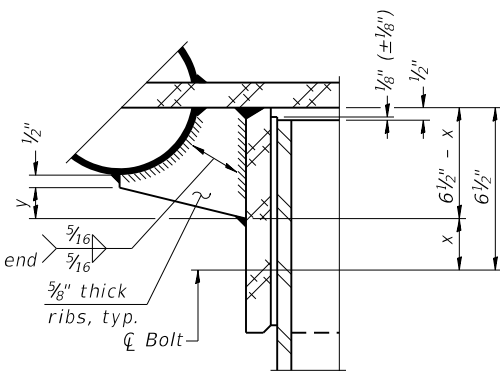
④ Collar I.D. shall be manufactured to correspond to O.D. of actual galvanized post and stainless steel sleeve plus  $1/8$ " ( $\pm 1/16$ "). Maximum gap between post and collar at any location equals  $1/8$ " before tightening bolts.

**SECTION B-B**

Bolts, washers (including contoured washers), and locknuts shall be stainless steel.

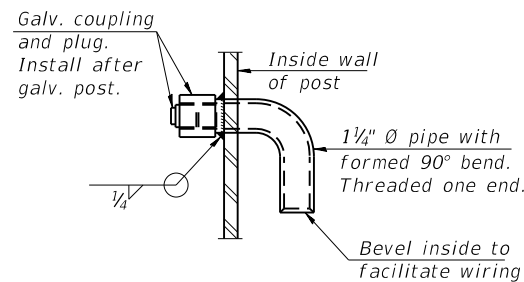


**DETAIL A**  
(Two locations)

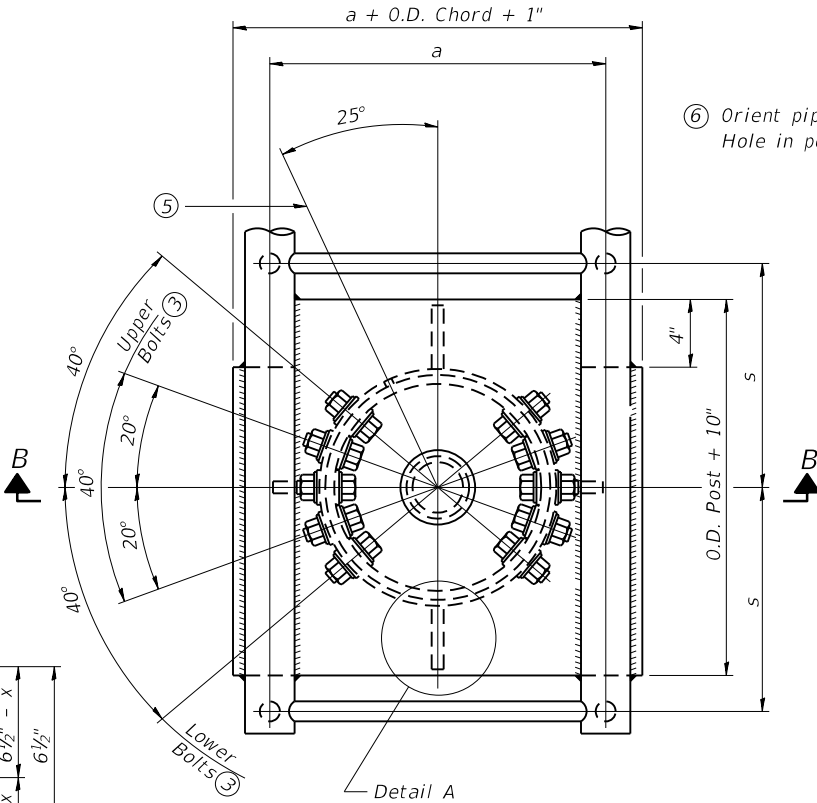


**DETAIL B**

Two locations  
(For details not shown, see Detail C)

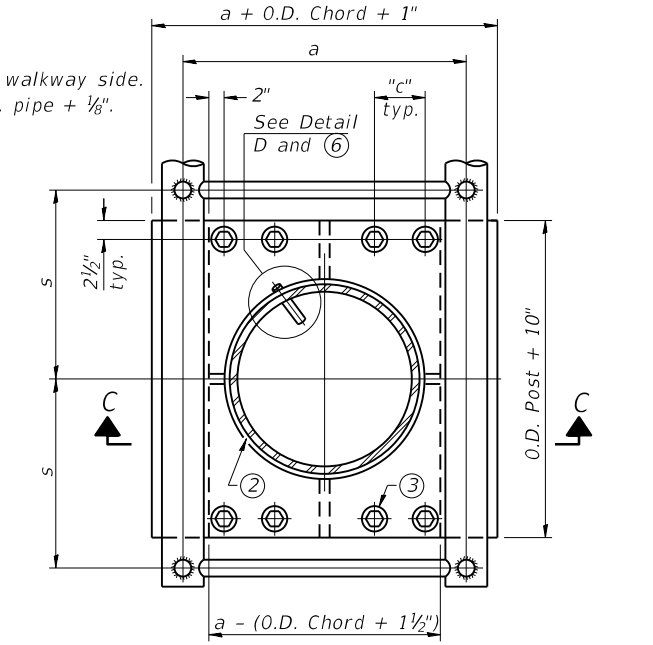


**DETAIL D**



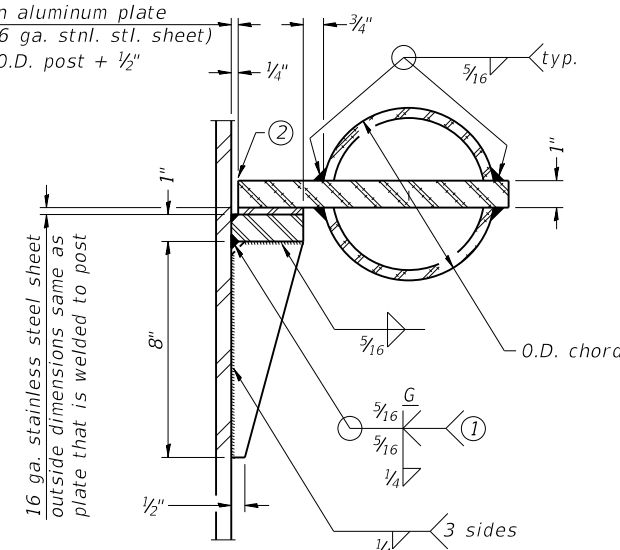
**PLAN VIEW - TOP OF COLUMN**

⑤ Optional full penetration weld in collar.  
(Two locations maximum....(180° apart)....X-ray or UT 100%)



**SECTION THRU POST ABOVE LOWER CHORDS**

Hole in aluminum plate (and 16 ga. stnl. stl. sheet) to be O.D. post + 1/2"



**DETAIL C**

- ① Grind top if required to fully seat aluminum plate and stainless steel sheet.
- ② After tightening lower connection bolts, fill gap with non-hardening, silicone caulk suitable for exterior exposure and acceptable to the Engineer. Cost is included in Overhead Sign Structure Cantilever.
- ③ Upper and lower connection bolts in collar and bolts at lower chord connection shall be high strength with matching locknuts. Connection bolts shall have 2 stainless steel flat washers each.

**CONTOURED WASHERS**

Bolt Size	Contoured Washers	
	Hole Dia.	B
7/8"	1"	2 1/2"
1"	1 1/8"	3"
1 1/4"	1 3/8"	3 1/4"

**DETAIL OF STAINLESS STEEL SLEEVE**

Weld to post after galvanizing.  
(Prepare post surface to insure tight, uniform fit and allow welding.)  
Welds to be 1 1/2" long at 6" cts. along top edge and at 1/4" opening.

Truss Type	Post Size	Upper & Lower Connection Bolt Diameter ③	Lower Juncture Bolt Spacing Dimension "c" ③	Opening in Cap Plate "HH"	Collar Thickness (t)	Side Ribs	
						x	y
I-C-A	16" $\varnothing$ (83#/' )	7/8"	3 1/4"	8"	5/8"	1 3/4"	2 1/4"
II-C-A	24" $\varnothing$ (125#/' )	1"	3 1/2"	12"	7/8"	2"	1 1/4"
III-C-A (35' max.)	24" $\varnothing$ (125#/' )	1 1/4"	3 1/2"	12"	7/8"	2"	1"
III-C-A (>35' to 40')	24" $\varnothing$ (171#/' )	1 1/4"	3 1/2"	12"	7/8"	2"	1"

OSC-A-3

2-17-2017

USER NAME = stefenmk	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
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	DATE -	REVISED -

STATE OF ILLINOIS  
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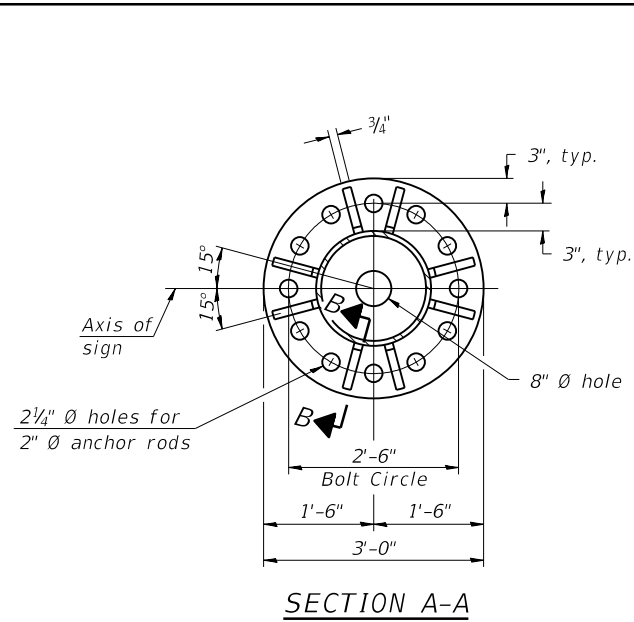
CANTILEVER SIGN STRUCTURES - JUNCTURE DETAILS  
ALUMINUM TRUSS & STEEL POST

SCALE: SHEET OF SHEETS STA. TO STA.

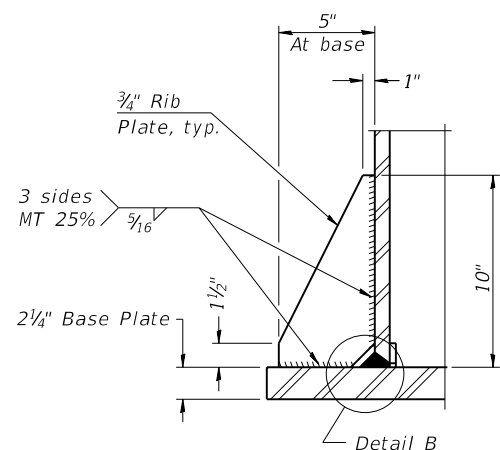
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			CONTRACT NO. 46499	
ILLINOIS				

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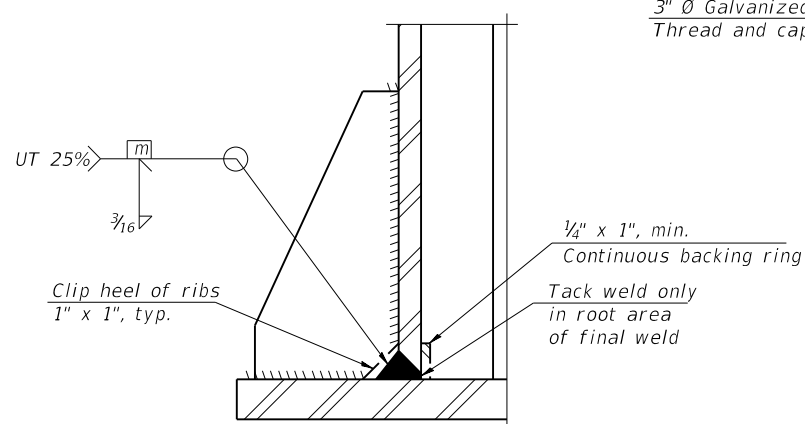
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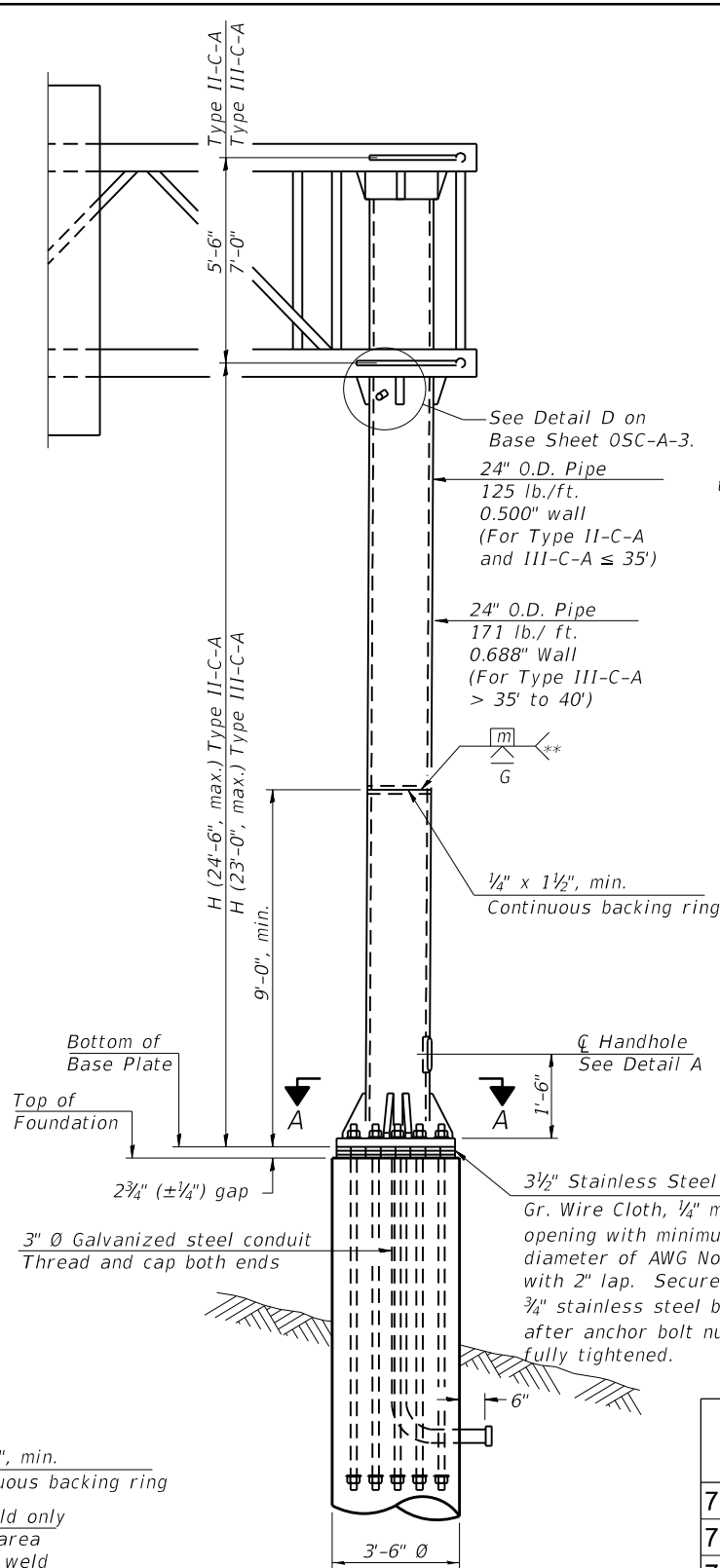
**SECTION A-A**



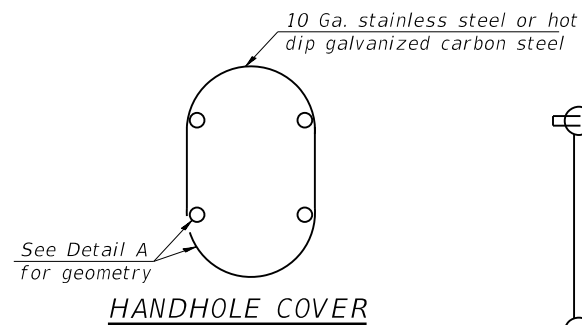
**SECTION B-B**



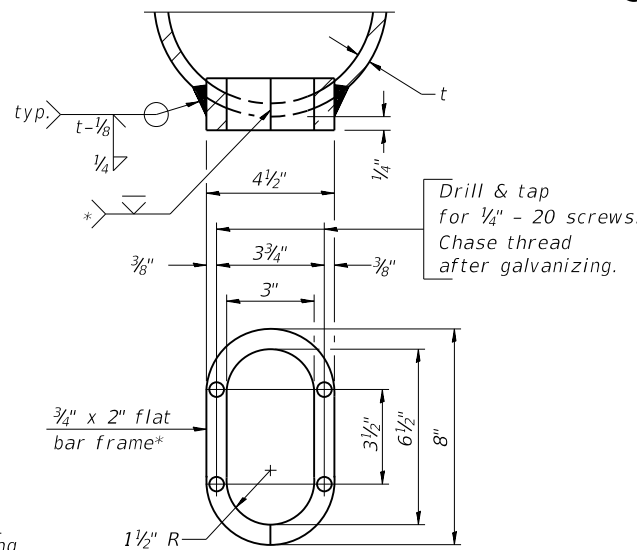
**DETAIL B**  
(Typical rib)



**FRONT ELEVATION**  
For Foundation Details see Base Sheet OSC-A-9.



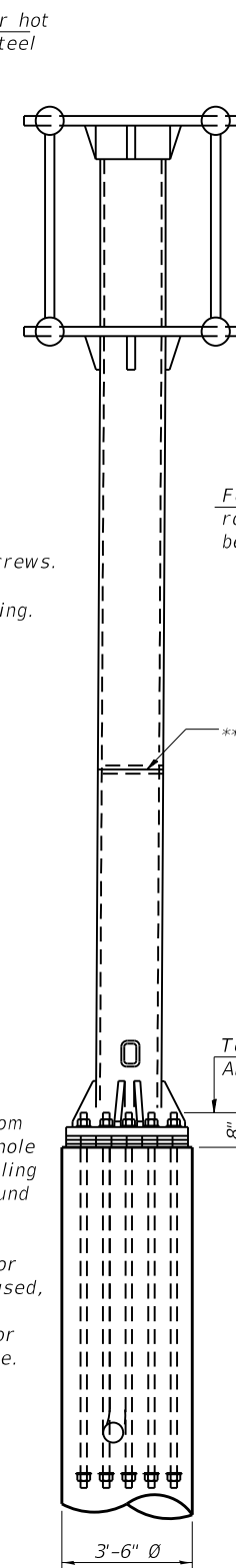
**HANDHOLE COVER**



**DETAIL A**

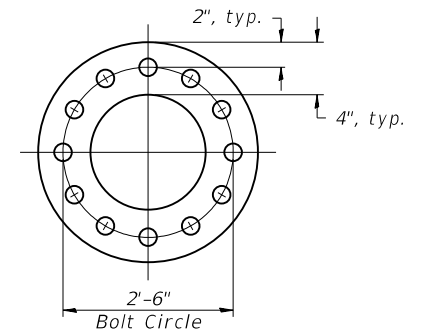
\* Bent bars may be butt welded top and bottom or bottom only. In lieu of fabricated handhole frame as shown, may cut from 2 inch plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500µ in or less.

\*\* Butt welded joint in post is only allowed for post heights (H) over 20 feet in length. If used, weld procedure must be preapproved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.



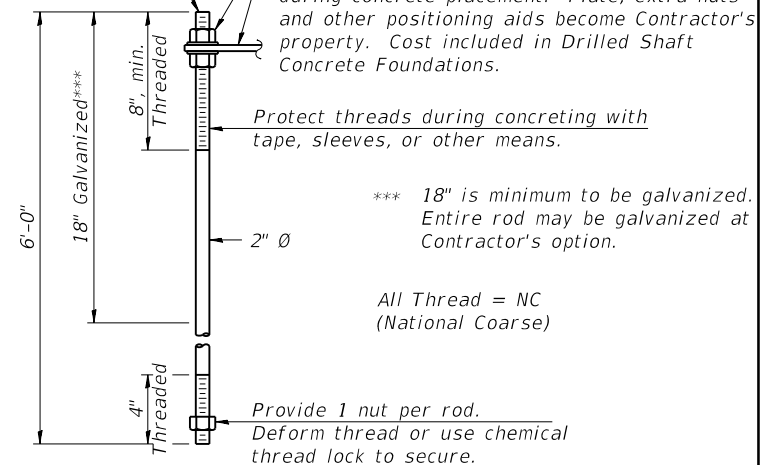
**SIDE ELEVATION**

**SUGGESTED POSITIONING PLATE**



For UT, grind top of rod square and smooth before galvanizing.

Utilize positioning plate and temporary nuts with leveling nuts or other Engineer approved methods to maintain anchor bolts' alignment during concrete placement. Plate, extra nuts and other positioning aids become Contractor's property. Cost included in Drilled Shaft Concrete Foundations.



**ANCHOR ROD DETAIL**

Anchor rods shall conform to ASTM F1554 Grade 105. Galvanize the upper 18 inches (minimum) and associated AASHTO M291, Grade A, C or DH heavy hex nuts and hardened washers per AASHTO M232. No welding shall be permitted on rods. Provide a nut at bottom, a hexagon locknut and washer above base plate and a leveling nut and washer below base plate. Nuts shall each be tightened with 200 lb.-ft. minimum torque against base plate. Before or after threading, but before galvanizing, each anchor rod shall be ultrasonically tested (UT) by a Level II or III inspector, qualified in accord with ANSI guidelines, to insure no rejectable flaws exist in the upper 18 inches (tension criteria). Cost of testing included in Drilled Shaft Concrete Foundations.

Structure Number	Station	H (Ft)
7C025I070L087.2	1785+46	22.49
7C058U051R010.98	776+90	22.88
7C015I057L189.5	786+10	23.00
7C058I072R152.77	767+10	23.00
7C058I072L152.9	772+88	22.83
7C058U036L030.5	384+90	23.00
7C058U051L009.8	1170+10	21.82
7C058UB51R000.41	1139+95	22.14
7C058U051L118.9	130+85	23.00

Note: "H" based on 15'-0" or actual sign height, whichever is greater.

OSC-A-5

2-17-2017

USER NAME = steffenmk	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 5/24/2018	CHECKED -	REVISED -
	DATE -	REVISED -

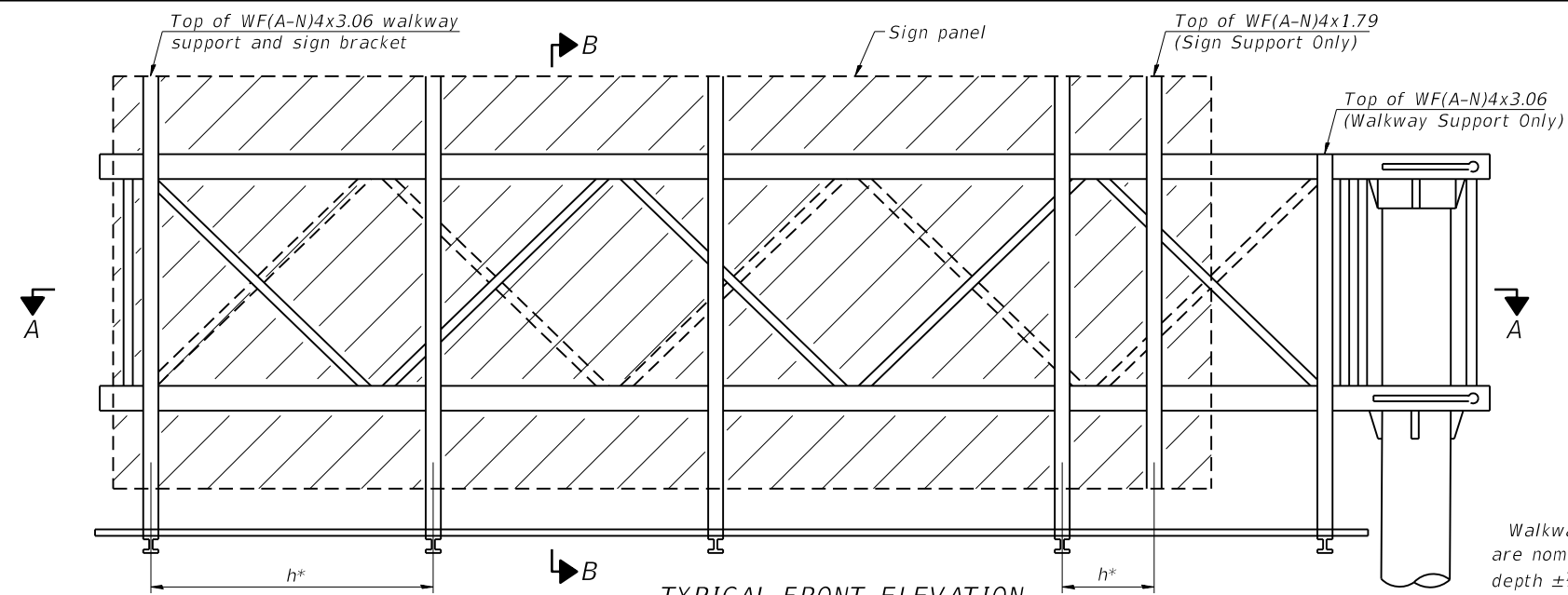
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**CANTILEVER SIGN STRUCTURES - TYPE II-C-A & III-C-A**  
**TRUSS SUPPORT POST - ALUMINUM TRUSS & STEEL POST**

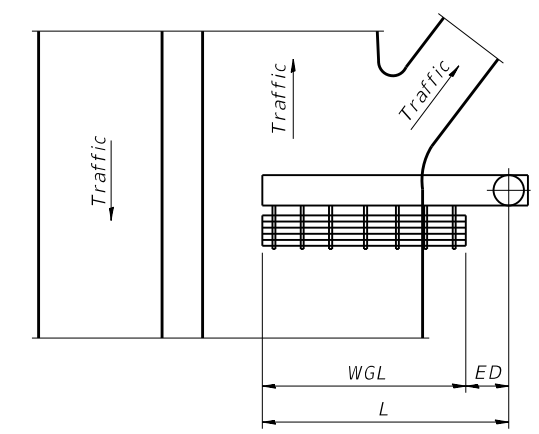
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	40
			CONTRACT NO. 46499	
ILLINOIS				



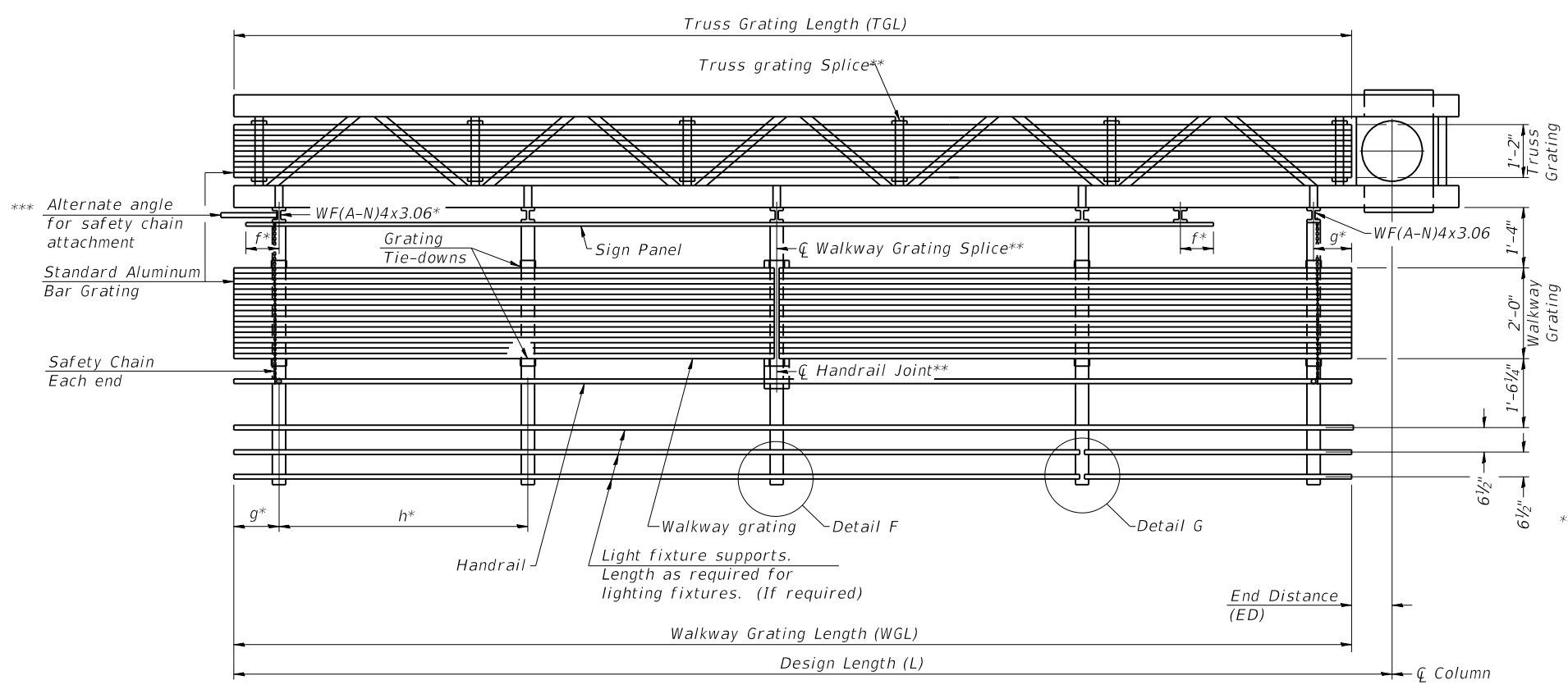


**TYPICAL FRONT ELEVATION**  
With lights and handrail omitted for clarity.



**PLAN**  
**WALKWAY AND HANDRAIL SKETCH**  
(Road plan beneath truss varies)

Walkway and truss grating dimensions are nominal and may vary (width ±1/2", depth ±1/2") based on available standard widths.



**SECTION A-A**

Truss grating to facilitate inspection shall run full length of cantilevers. Cost of truss grating is included in Overhead Sign Structure Cantilever.

Handrail and walkway grating shall span a minimum of three brackets between splices.  
\*\* Use and location of handrail joints or grating splices are optional, based on lengths needed and material availability.

$$TGL = L - \left( \frac{\text{Post O.D.}}{2} + 6'' \right)$$

Structure Number	Station	WGL (Ft)	ED (Ft)	TGL (Ft)
7C025I070L087.2	1785+46	16.00	19.00	33.50
7C058U051R010.98	776+90	20.00	18.00	36.50
7C015I057L189.5	786+10	18.00	10.00	26.50
7C058I072R152.77	767+10	17.00	18.00	33.50
7C058I072L152.9	772+88	17.00	18.00	33.50
7C058U036L030.5	384+90	20.00	15.00	33.50
7C058U051L009.8	1170+10	30.00	8.00	36.50
7C058UB51R000.41	1139+95	30.00	8.00	36.50
7C058U051L118.9	130+85	20.00	15.00	33.50

Notes:  
Space walkway brackets WF(A-N)4x3.06 and sign brackets WF(A-N)4x1.79 for efficiency and within limits shown:  
  
f = 12" maximum, 4" minimum (End of sign to center of nearest bracket)  
g = 12" maximum, 4" minimum (End of walkway to center of nearest bracket)  
h = 6'-0" maximum (center to center sign and/or walkway support brackets, WF(A-N)4x1.79 or WF(A-N)4x3.06)  
  
\*\*\* If walkway bracket at safety chain location is behind sign, add angle to bracket. See alternate safety chain attachment on base sheet OSC-A-8  
  
For details of sign placement, sign/walkway brackets, truss and walkway gratings, grating splices and Section B-B, see Base Sheet OSC-A-7.  
For details of handrail, handrail joint, safety chain and Details F and G, see Base Sheet OSC-A-8.

**BRACKET TABLE**

WF(A-N)4x1.79 or WF(A-N)4x3.06 ASTM B308, Alloy 6061-T6		
Sign Width		Number Brackets Required
Greater Than	Less Than or Equal To	
	8'-0"	2
8'-0"	14'-0"	3
14'-0"	20'-0"	4
20'-0"	26'-0"	5
26'-0"	32'-0"	6

OSC-A-6

2-17-2017

USER NAME = steffemk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/15/2018	DATE -	REVISED -

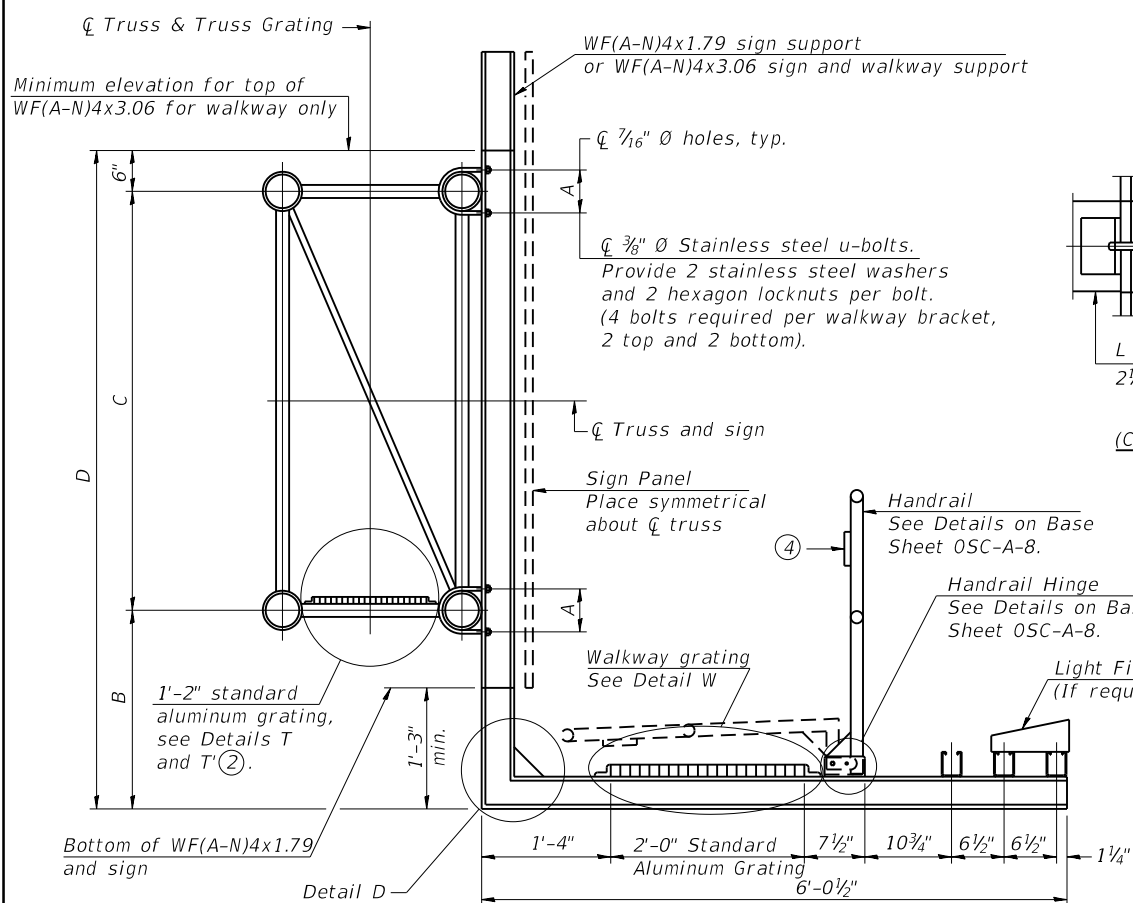
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**CANTILEVER SIGN STRUCTURES - ALUMINUM WALKWAY**  
**DETAILS - ALUMINUM TRUSS & STEEL POST**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	41
			CONTRACT NO. 46499	
ILLINOIS				

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CADD: B&E  
DATE: 2/17/2017  
DRAWN: steffemk  
CHECKED: steffemk  
DATE: 3/15/2018

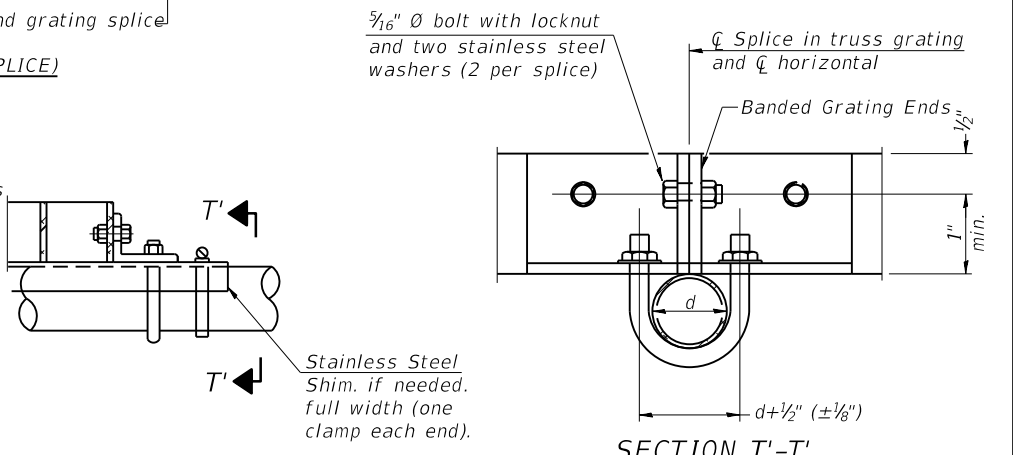
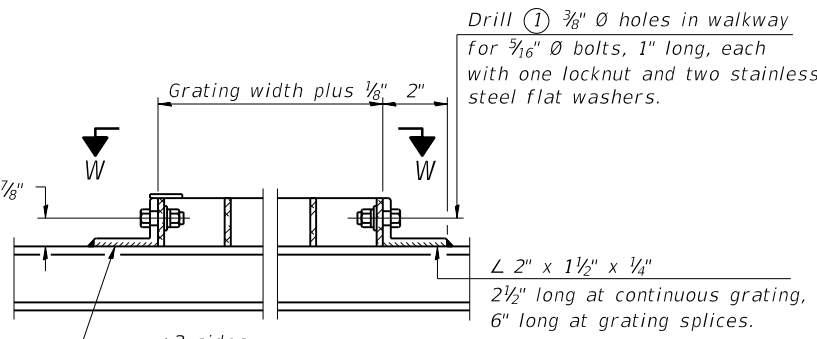
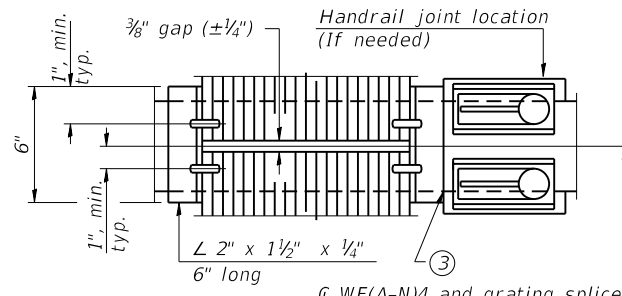
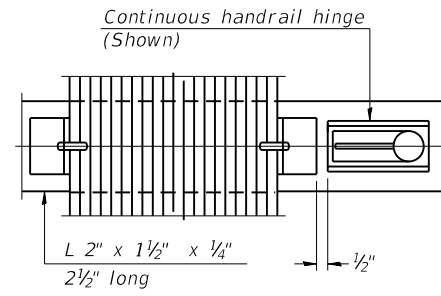


**SPECIFICATIONS FOR STANDARD ALUMINUM GRATING**

Main Bearing Bars (MBB) shall be 3/16" x 1 1/2" on 1 3/16" centers and conform to ASTM B211 Alloy 6061-T6.  
 Cross bars (CB) shall be 3/16" x 1 1/2" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

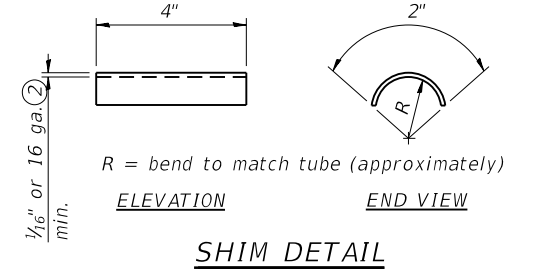
OR

Aluminum Grating with modified "t" sections for main bearing bars shall meet the following requirements:  
 Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in.<sup>3</sup> per bar, a depth of 1 1/2", spaced on 1 3/16" centers.  
 Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.



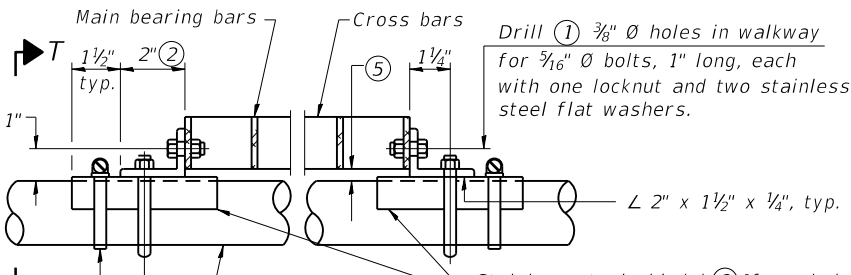
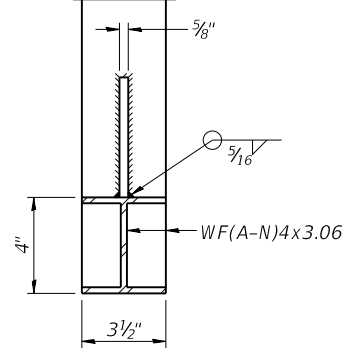
**DETAIL T'**

(Truss grating splice)  
 Details not shown same as Detail T.  
 Alternate materials may be used subject to the Engineer's review and approval.



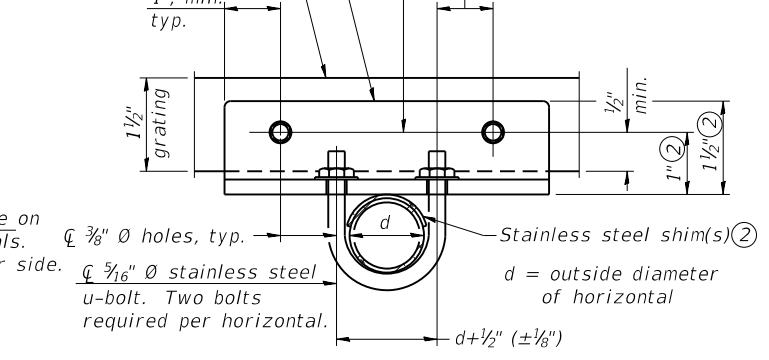
**SECTION B-B**

Sign shall be even with the top of the bracket, but it may extend no more than 6" above the top of the bracket for field adjustments.



**DETAIL W**

(Walkway grating)  
 2-L 2" x 1 1/2" x 1/4" at each horizontal  
 Continuous Truss Grating  
 1", min. typ.  
 1/2" grating  
 1/2" min.  
 1" (2) 1 1/2" (2)



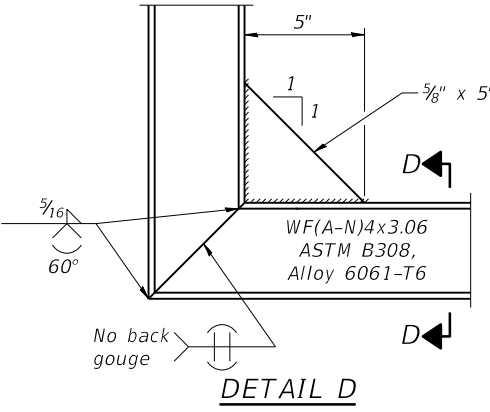
**SECTION T-T**

Structure Number	Station	A (Inch)	B (Ft)	C (Ft)	D (Ft)
7C0251070L087.2	1785+46	7.50	1.25	7.00	8.75
7C058U051R010.98	776+90	8.50	2.75	7.00	10.25
7C0151057L189.5	786+10	7.00	3.25	5.50	9.25
7C0581072R152.77	767+10	7.50	1.25	7.00	8.75
7C0581072L152.9	772+88	7.50	1.25	7.00	8.75
7C058U036L030.5	384+90	7.50	1.75	7.00	9.25
7C058U051L009.8	1170+10	8.50	1.25	7.00	8.75
7C058UB51R000.41	1139+95	8.50	1.50	7.00	9.00
7C058U051L118.9	130+85	7.50	1.25	7.00	8.75

- Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.
- If Handrail Joint present, weld angle to WF(A-N)4 and 1/4" extension bars. (See Base Sheet OSC-A-8.)
- R 1/8" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.
- Tube to grating gap may vary from 0 to 1/2", max. to align walkway, allow for camber, etc.
- Based on actual sign height, Ds, given on OSC-A-1.

**DETAIL T**

(Continuous Truss grating)



**DETAIL D**

OSC-A-7 2-17-2017

USER NAME = stefenmk	DESIGNED -	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/15/2018	CHECKED -	REVISED -
	DATE -	REVISED -

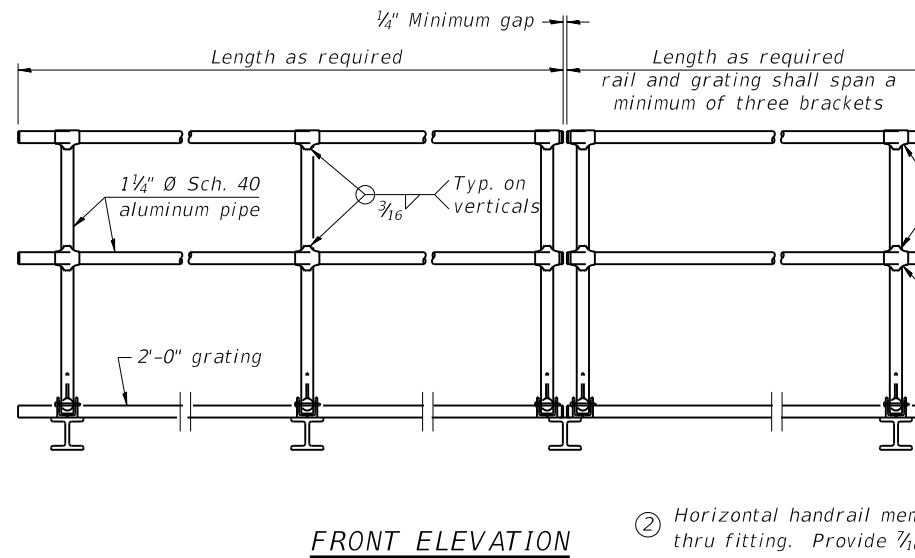
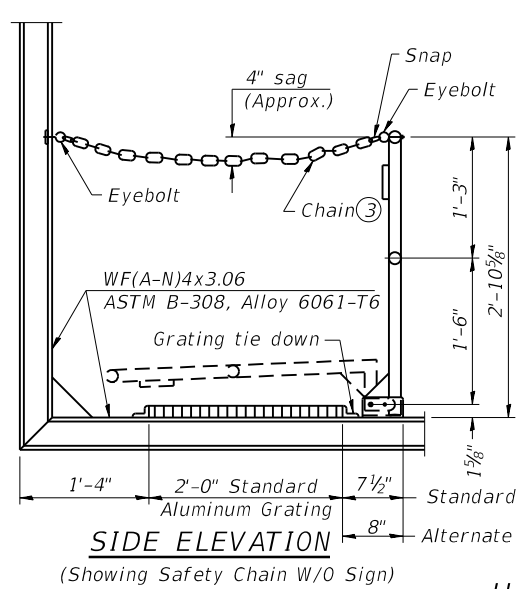
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - WALKWAY DETAILS  
 ALUMINUM TRUSS & STEEL POST

SCALE: SHEET OF SHEETS STA. TO STA.

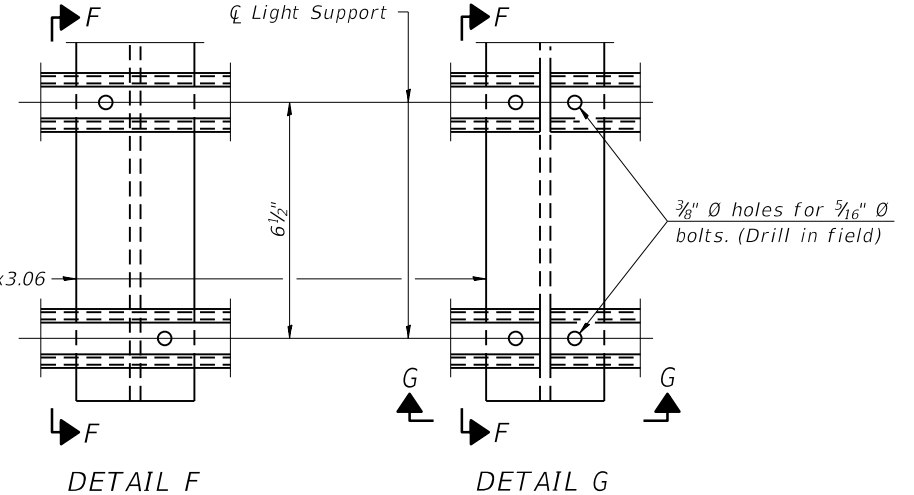
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	42
			CONTRACT NO. 46499	
ILLINOIS				

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① Install standard force-fit end caps or weld 1/8" end plates with 1/8" c.f.w. and grind smooth. (All rail ends)

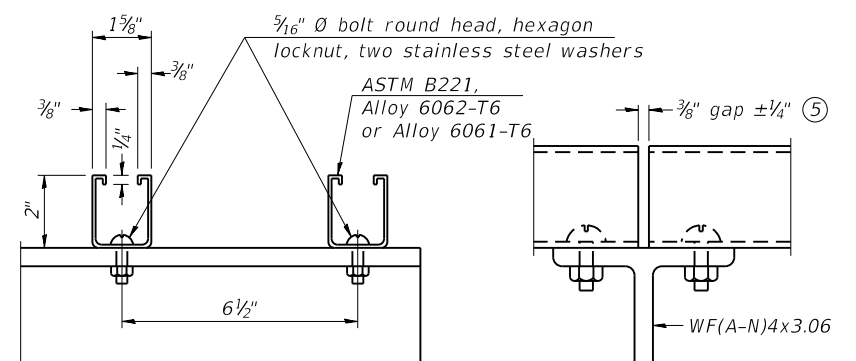
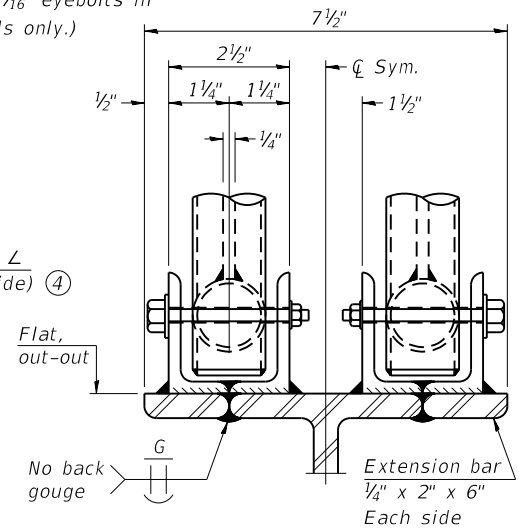
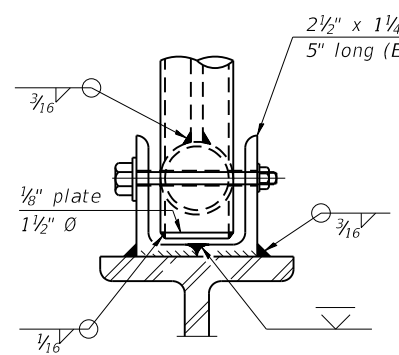
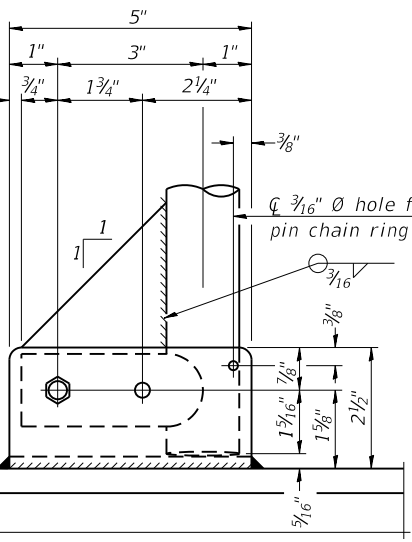
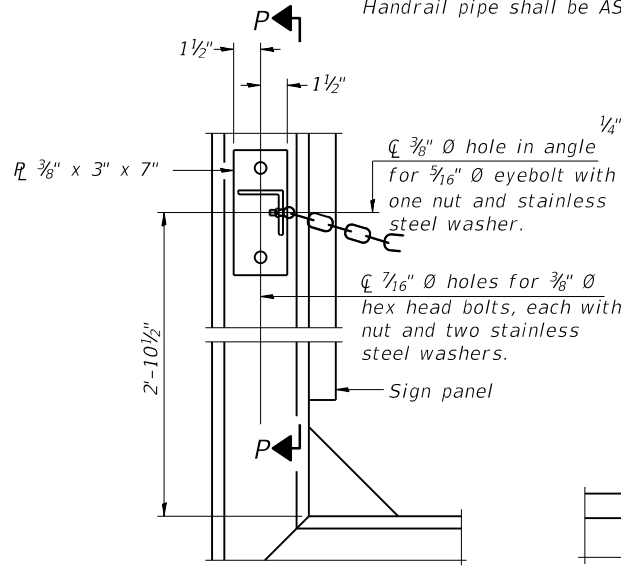
Fittings-ASTM B26, Alloy 356-T7 or 1 1/2"Ø aluminum pipe



**HANDRAIL DETAILS**

Handrail pipe shall be ASTM B241 or B429, Alloy 6063-T6 or Alloy 6061-T6.

② Horizontal handrail member shall be continuous thru fitting. Provide 7/16" Ø hole in fitting for 3/8" Ø bolt. Field drill 7/16" Ø hole in horizontal rail member. Provide locknut and two stainless steel washers for bolt. (Use 5/16" eyebolts in 7/16" Ø holes on top rail at ends only.)

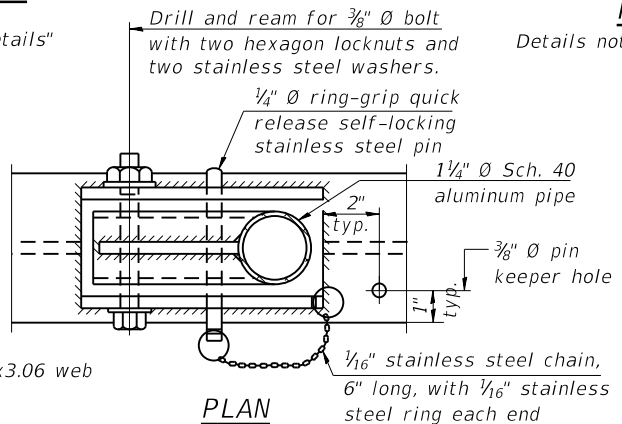
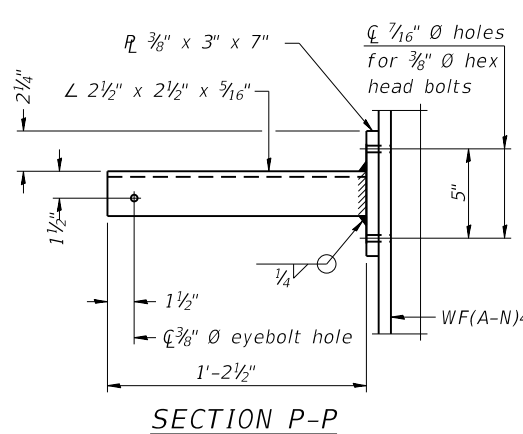


**LIGHTING FIXTURE MOUNTS (IF REQUIRED)**

⑤ Field cut ends of light support channels shall be free of burrs or hazardous projections and coated with zinc-rich primer or equivalent.

**ALTERNATE SAFETY CHAIN ATTACHMENT (With Sign Present)**

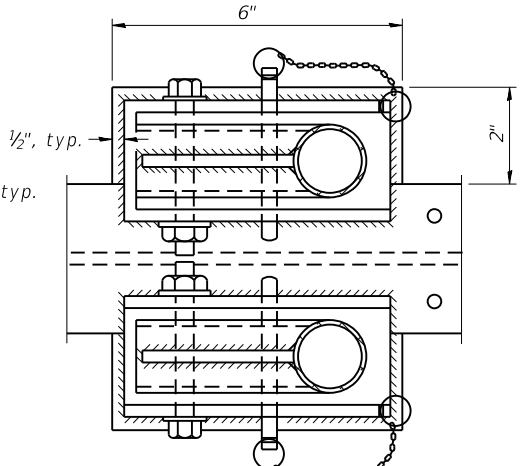
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Details not shown same as "ELEVATION" at right.

**FRONT ELEVATION**

Details not shown same as "FRONT ELEVATION" at right.

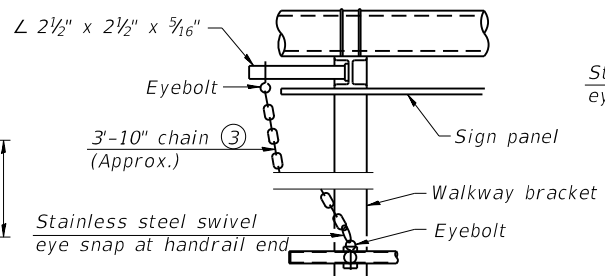


**PLAN AT HANDRAIL JOINT**

Details not shown same as "PLAN"

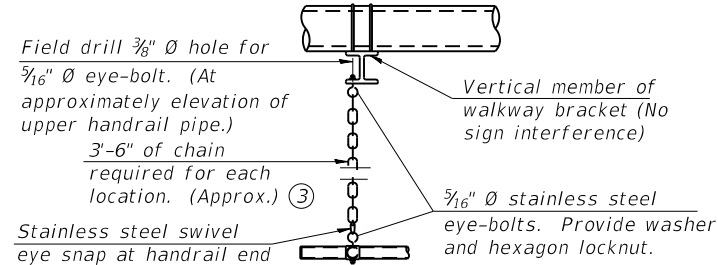
**ELEVATION AT HANDRAIL JOINT**

Details not shown same as "FRONT ELEVATION"



**ALTERNATE SAFETY CHAIN ATTACHMENT**

Details not shown similar to "Safety Chain" Details (Walkway omitted for clarity)



**SAFETY CHAIN**

One required for each end of each walkway.

- ③ 3/16" Type 304L stainless steel chain, approximately 12 links per foot.
- ④ Extrusions may be used in lieu of the details shown, with approval of the Engineer.

OSC-A-8

2-17-2017

USER NAME = stefenmk	DESIGNED -	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/15/2018	CHECKED -	REVISED -
	DATE -	REVISED -

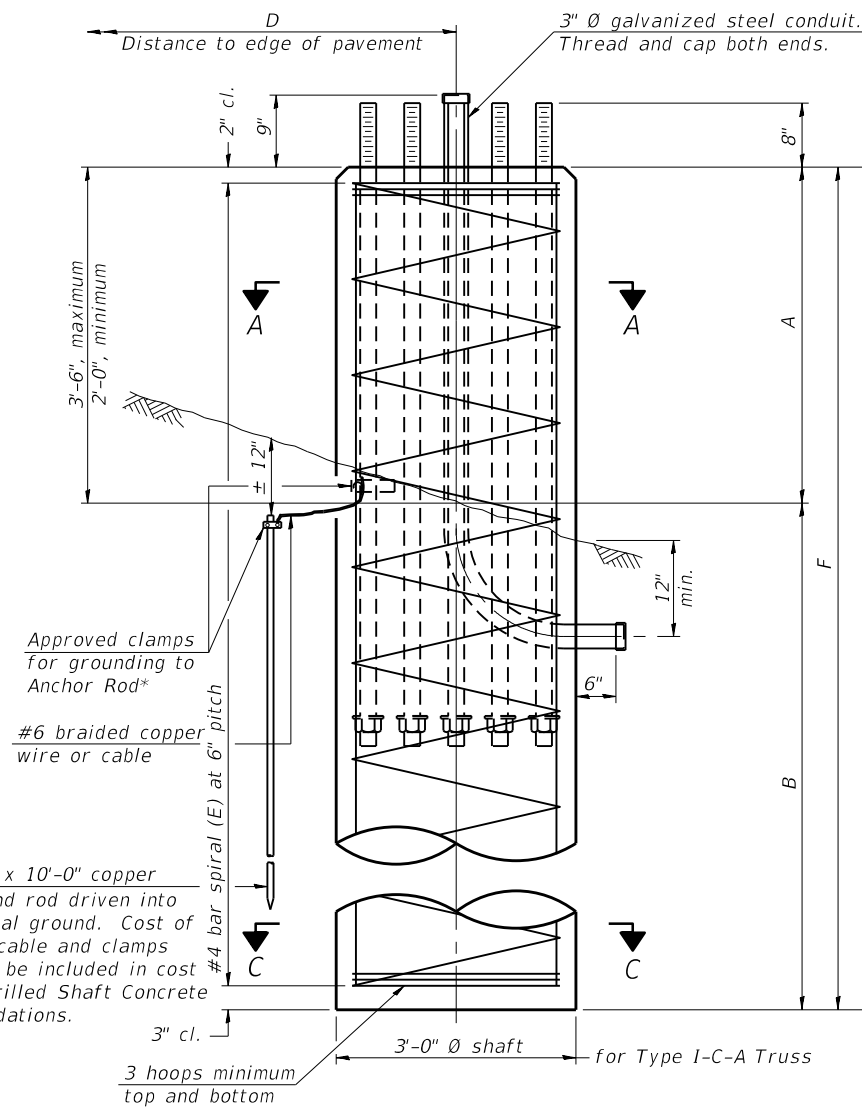
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - HANDRAIL DETAILS				
ALUMINUM TRUSS & STEEL POST				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

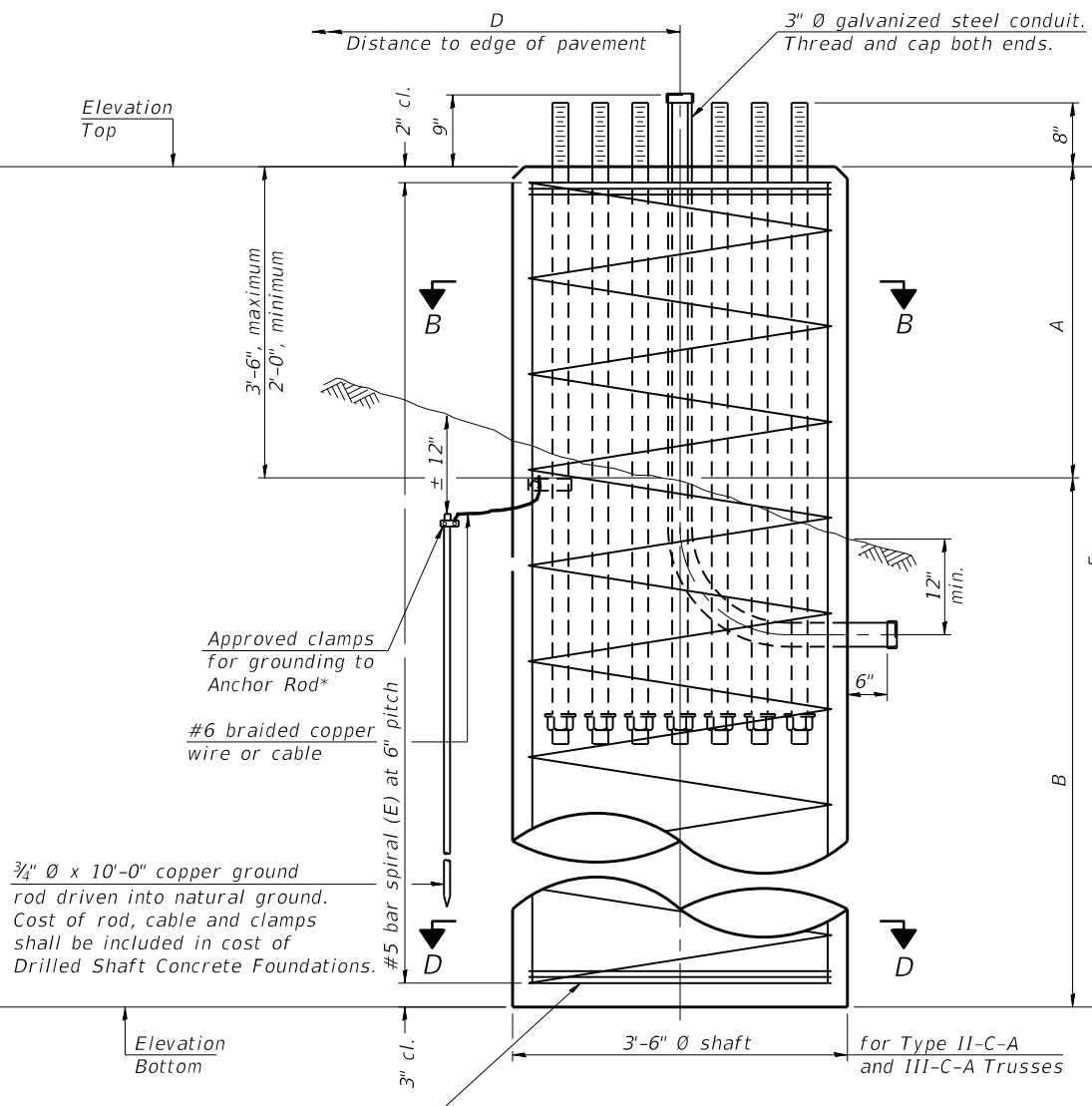
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VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	43
			CONTRACT NO. 46499	
ILLINOIS				

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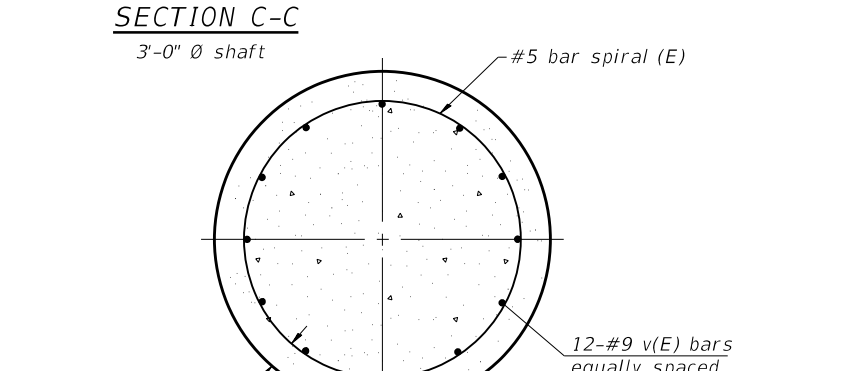
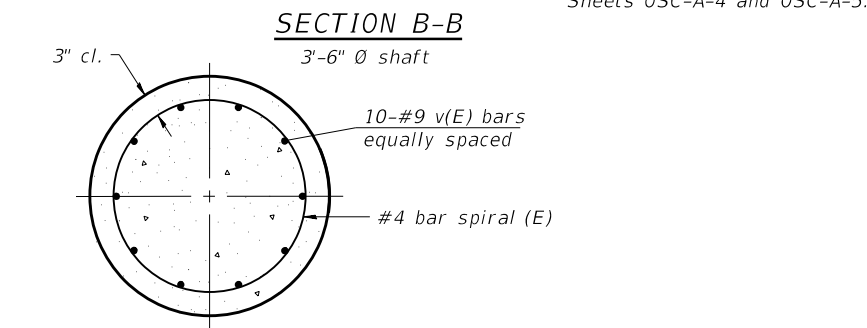
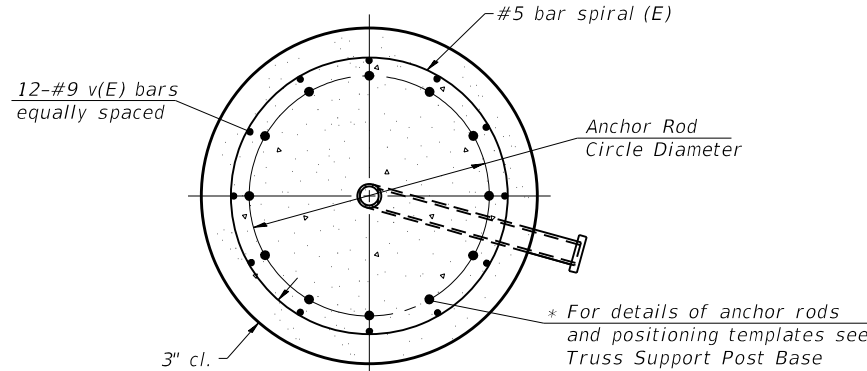
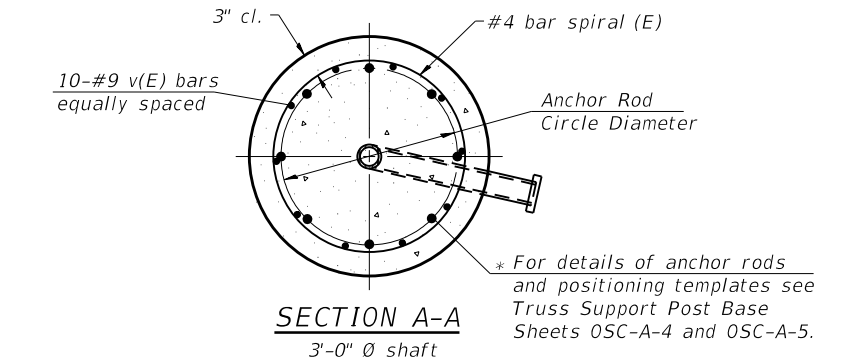
\* Grind anchor rod to bright finish at ground clamp location before installing clamp.



ELEVATION



ELEVATION



NOTES:

The foundation dimensions shown in the Foundation Design Table are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength ( $Q_u$ ) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown in the Foundation Data Table will be the result of site specific designs.

If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in "Drilled Shaft Concrete Foundation".

FOUNDATION DESIGN TABLE								
Truss Type	Post Base Sheet	Maximum Cantilever Length (ft)	Maximum Total Sign Area (sq ft)	Shaft Diameter (in)	"B" Depth (ft)	Anchor Rods		Anchor Rod Circle Diameter (in)
						No.	Diameter (in)	
I-C-A	OSC-A-4	25	170	3.0	16.0	8	2	22
II-C-A	OSC-A-5	30	170	3.5	17.0	12	2	30
II-C-A	OSC-A-5	30	340	3.5	21.5	12	2	30
III-C-A	OSC-A-5	35	170	3.5	19.0	12	2	30
III-C-A	OSC-A-5	35	250	3.5	22.5	12	2	30
III-C-A	OSC-A-5	35	400	3.5	26.5	12	2	30
III-C-A	OSC-A-5	40	400	3.5	32.0	12	2	30

Foundation Data Table										
Structure Number	Station	Truss Type	Shaft Diameter (Ft)	Elevation Top (Ft)	Elevation Bottom (Ft)	$Q_u$ (TSF)	A (Ft)	B (Ft)	F (Ft)	Class DS Concrete (Cu. Yds.)
7C025I070L087.2	1785+46	III-C-A	3.50	99.78	78.78	7.68	2.00	19.00	21.00	7.50
7C058U051R010.98	776+90	III-C-A	3.50	99.39	65.39	1.03	2.00	32.00	34.00	12.10
7C015I057L189.5	786+10	II-C-A	3.50	100.02	75.83	0.82	2.69	21.50	24.19	8.60
7C058I072R152.77	767+10	III-C-A	3.50	99.27	77.98	1.92	2.29	19.00	21.29	7.60
7C058I072L152.9	772+88	III-C-A	3.50	99.43	78.43	0.62	2.00	19.00	21.00	7.50
7C058U036L030.5	384+90	III-C-A	3.50	99.27	73.46	1.40	3.31	22.50	28.81	9.20
7C058U051L009.8	1170+10	III-C-A	3.50	100.45	66.45	1.98	2.00	32.00	34.00	12.10
7C058UB51R000.41	1139+95	III-C-A	3.50	100.13	66.13	5.56	2.00	32.00	34.00	12.10
7C058U051L118.9	130+85	III-C-A	3.50	98.91	77.36	5.56	2.55	19.00	21.55	7.70

OSC-A-9

2-17-2017

USER NAME = steffemk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 5/24/2018	DATE -	REVISED -

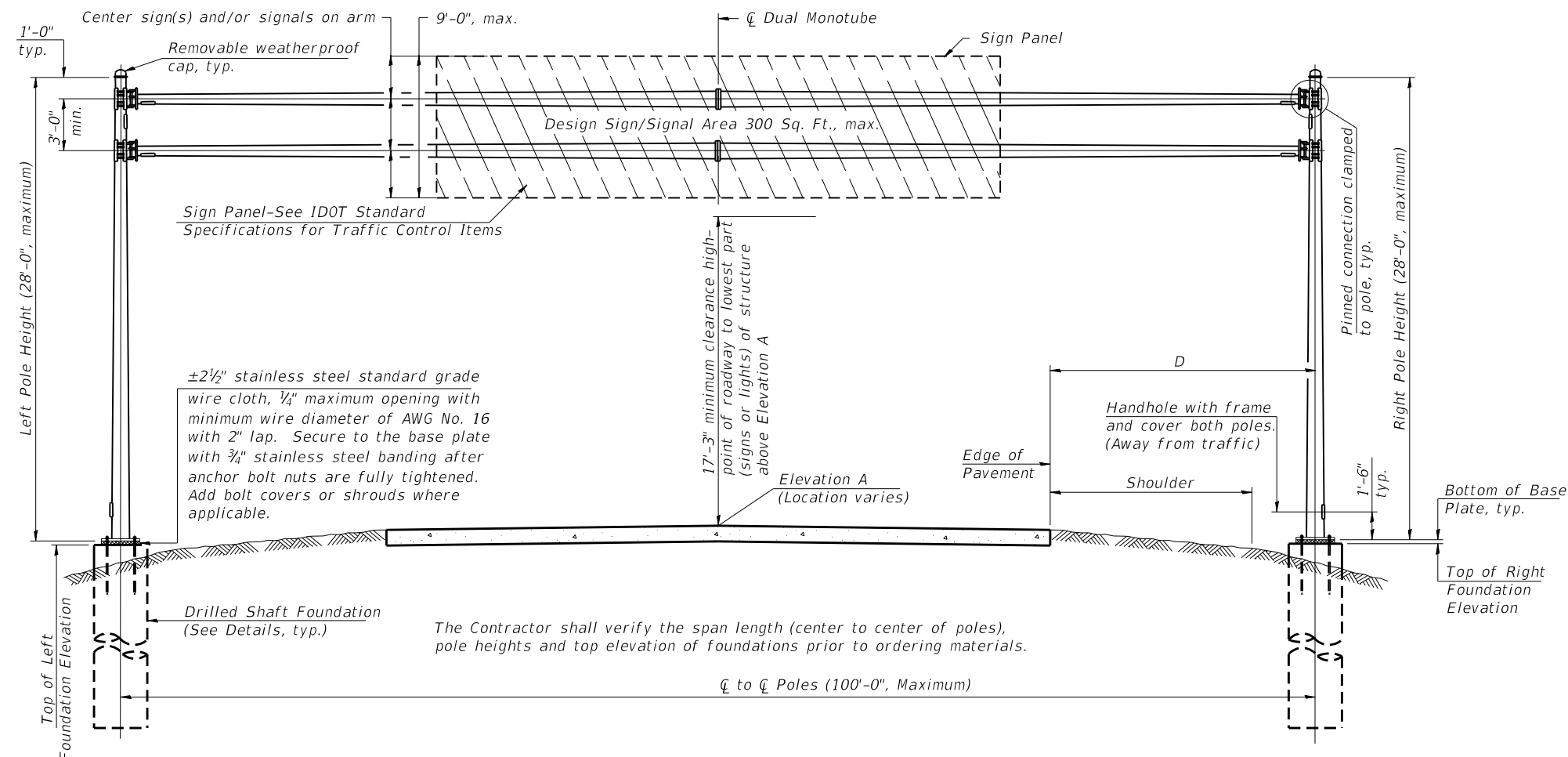
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - DRILLED SHAFT  
ALUMINUM TRUSS & STEEL POST

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	44
			CONTRACT NO. 46499	
ILLINOIS				

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**GENERAL NOTES**

DESIGN: Current (at time of letting) AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals (Fatigue Category II - natural wind gust only).

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Recurring Special Provisions. ("Standard Specifications") All references to "Mast Arm Assembly and Pole" are applicable, unless otherwise noted.

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 Structural Welding Code and the Standard Specifications.

ANCHOR RODS: Shall conform to ASTM F1554 Grade 105. No welding shall be permitted on rods.

FASTENERS: All connection bolts shall be High Strength Bolts M164, Galvanize M232 (A153), Type 3, or stainless steel heavy hex conforming to ASTM A193, Grade B8 or B8M, Class 1. U-bolts shall be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished, or an equivalent material acceptable to the Engineer. Nuts for stainless steel bolts shall be stainless steel conforming to ASTM A194, Grade 8 (AISI Type 304) or Grade 8F (AISI Type 303). All nuts shall be "locknuts" with nylon or steel inserts and semifinished hexagonal heads equivalent to the finished heavy hex series of the American National Standard. Washers for stainless steel bolts shall be stainless steel conforming to ASTM A240, Type 302 or 304.

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

CAMBER: Minimum AASHTO camber =  $L / 1000 + \text{dead load camber}$

FOUNDATIONS: The contract unit price for Drilled Shaft Concrete Foundations shall include reinforcement bars complete in place.

The Contractor shall verify the span length (center to center of poles), pole heights and top elevation of foundations prior to ordering materials.

**ELEVATION**

Looking at face of signs.  
Looking upstation for structures with signs both sides.

**SIGN STRUCTURE DATA TABLE**

Structure Number	Station	C. to C. of Poles (Ft)	Elevation A (Ft)	Dimension D (Ft)	Actual Sign/Signal Area (SF)	Left Foundation					Right Foundation					Class SI Concrete (Cu. Yds.)
						Elevation Top (Ft)	Elevation Bottom (Ft)	A (Ft)	B (Ft)	F (Ft)	Elevation Top (Ft)	Elevation Bottom (Ft)	A (Ft)	B (Ft)	F (Ft)	
7M058B051R002.18	374+00	57.00	100.00	2.50	214.00	100.09	87.95	0.14	12.00	12.14	100.09	88.09	0.00	12.00	12.00	6.30

**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE MONOTUBE DOUBLE	FOOT	57.00
DRILLED SHAFT CONCRETE FOUNDATIONS	CU. YDS	6.30

DUALTUBE - 1 2-17-2017

MODEL: Default FILE: \\hpc\hpc\B&E\BID\NTEC\Illinois\pov\PIW\DOT\Documents\DOT Office\BID\refct 7\Projects\16199\CADDData\CADD\Sheet\16199-PIW-Detail.dgn

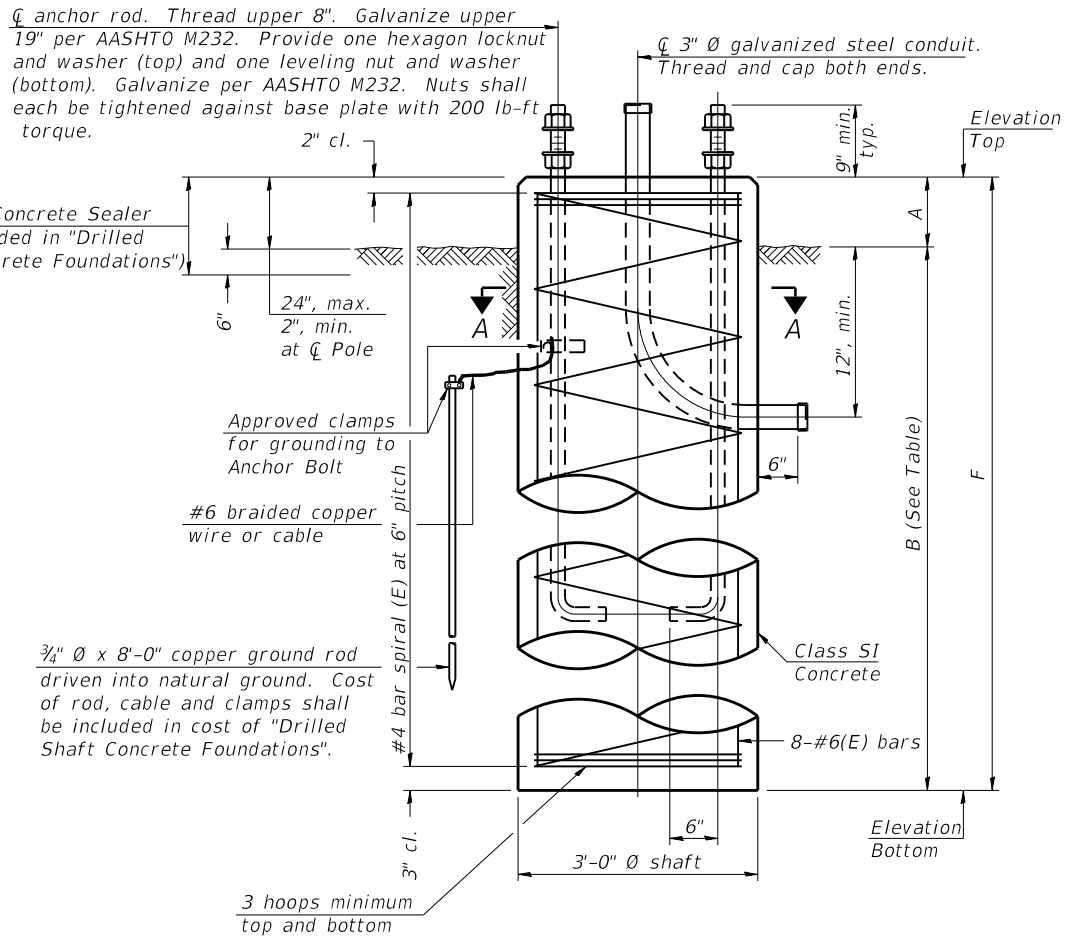
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PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/15/2018	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DUAL MONOTUBE SIGN STRUCTURE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	45
CONTRACT NO. 46499			ILLINOIS	



Span (Ft.)	B (Ft.)
Span $\leq$ 65	12
65 < Span $\leq$ 85	13
85 < Span $\leq$ 100	14

**FOUNDATIONS:**  
 The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength ( $Q_u$ ) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

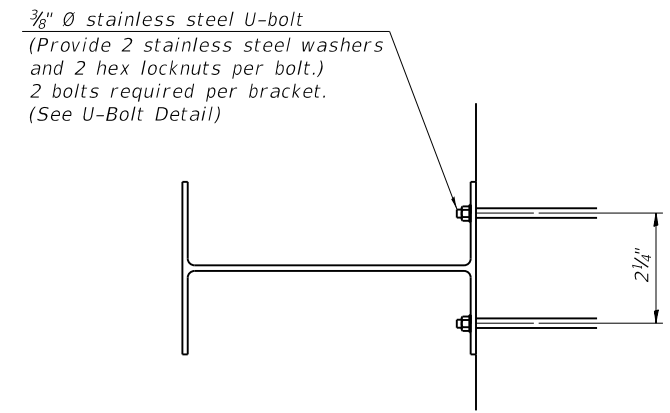
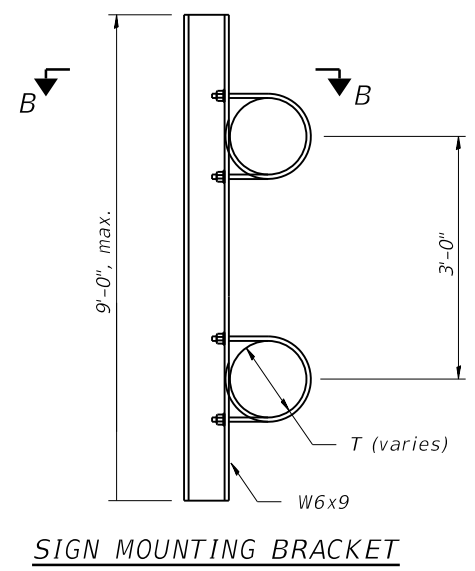
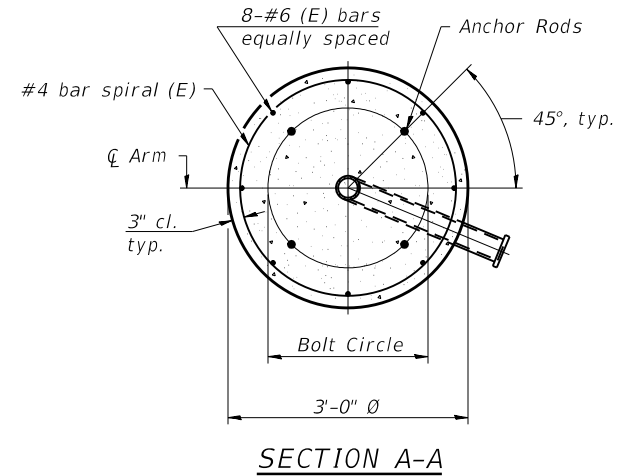
No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints. Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

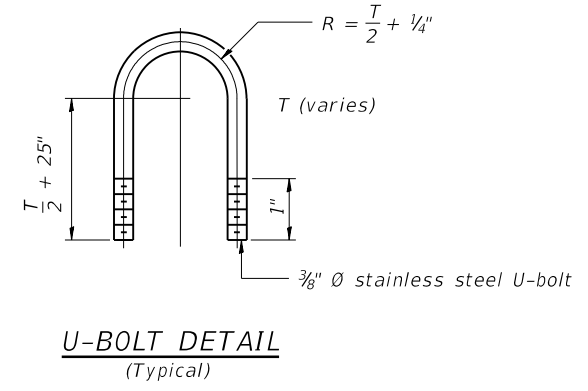
A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in "Drilled Shaft Concrete Foundation".

**FOUNDATION DETAILS**

Typical, except conduit may only be required at one foundation. Provide conduit openings both poles.



6'-0" maximum spacing.  
 2'-0" maximum sign overhang beyond end bracket.



DUALTUBE - 2 2-17-2017

USER NAME = stefenmk	DESIGNED -	REVISED -
DRAWN -	REVISED -	
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/15/2018	DATE -	REVISED -

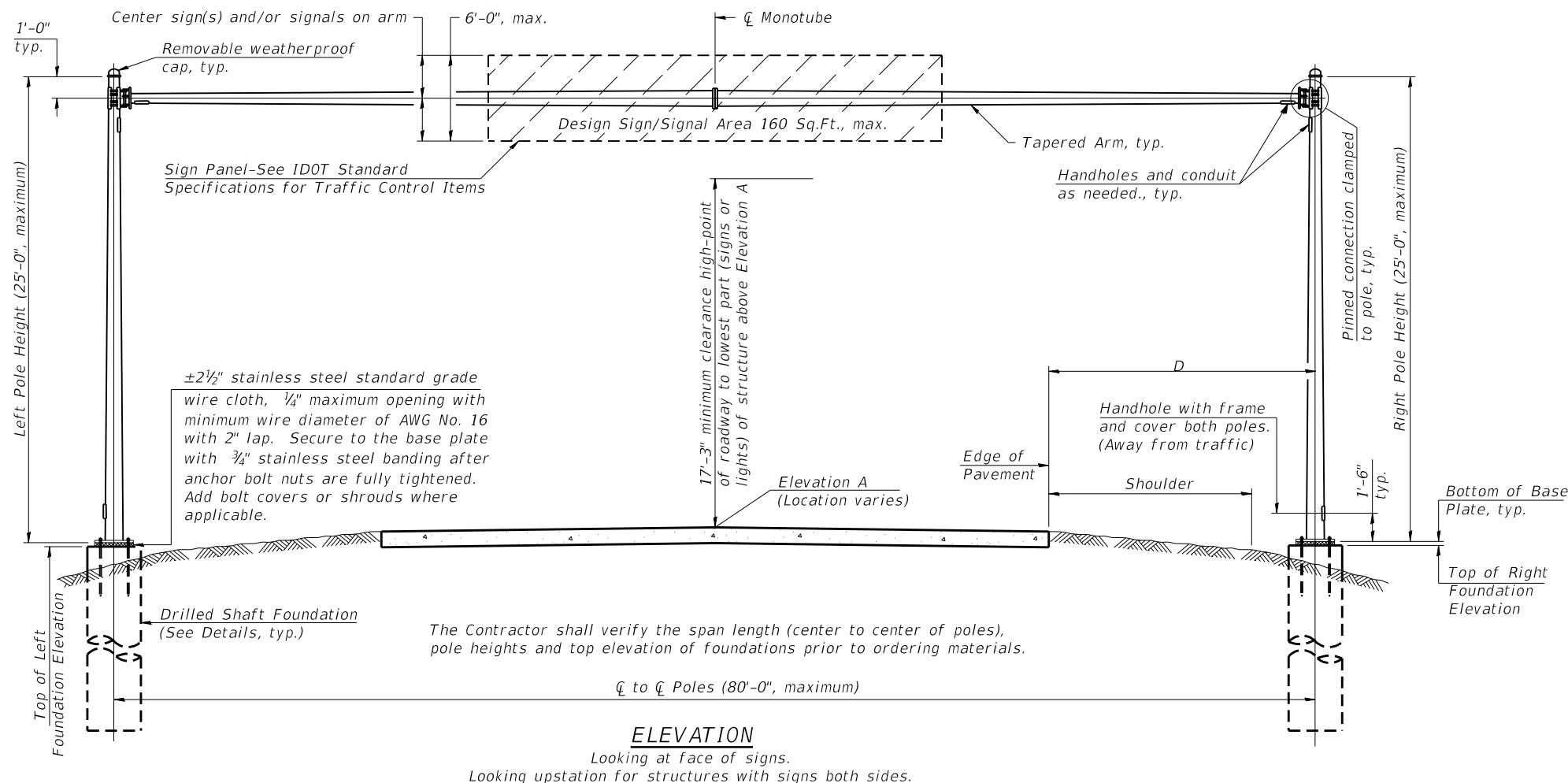
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DUAL MONOTUBE SIGN STRUCTURE  
FOUNDATION AND SIGN BRACKETS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	46
			CONTRACT NO. 46499	

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**GENERAL NOTES**

**DESIGN:** Current (at time of letting) AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals (Fatigue Category II - natural wind gust only).

**CONSTRUCTION:** Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Recurring Special Provisions. ("Standard Specifications") All references to "Mast Arm Assembly and Pole" are applicable, unless otherwise noted.

**WELDING:** All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 Structural Welding Code and the Standard Specifications.

**ANCHOR RODS:** Shall conform to ASTM F1554 Grade 105. No welding shall be permitted on rods.

**FASTENERS:** All connection bolts shall be High Strength Bolts M164, Galvanize M232 (A153), Type 3, or stainless steel heavy hex conforming to ASTM A193, Grade B8 or B8M, Class 1. U-bolts shall be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished, or an equivalent material acceptable to the Engineer. Nuts for stainless steel bolts shall be stainless steel conforming to ASTM A194, Grade 8 (AISI Type 304) or Grade 8F (AISI Type 303). All nuts shall be "locknuts" with nylon or steel inserts and semifinished hexagonal heads equivalent to the finished heavy hex series of the American National Standard. Washers for stainless steel bolts shall be stainless steel conforming to ASTM A240, Type 302 or 304.

**REINFORCEMENT BARS:** Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

**CAMBER:** Minimum AASHTO camber =  $L / 1000 + \text{dead load camber}$ .

**FOUNDATIONS:** The contract unit price for Drilled Shaft Concrete Foundations shall include reinforcement bars complete in place.

**SIGN STRUCTURE DATA TABLE**

Structure Number	Station	C. to C. of Poles (Ft)	Elevation A (Ft)	Dimension D (Ft)	Actual Sign/Signal Area (SF)	Left Foundation					Right Foundation					Class SI Concrete (Cu. Yds.)
						Elevation Top (Ft)	Elevation Bottom (Ft)	A (Ft)	B (Ft)	F (Ft)	Elevation Top (Ft)	Elevation Bottom (Ft)	A (Ft)	B (Ft)	F (Ft)	
7M058B051L005.72	660+69	57.00	100.00	2.50	136.44	99.72	88.99	0.73	10.00	10.73	99.72	89.72	0.00	10.00	10.00	3.80

**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE MONOTUBE	FOOT	57.00
DRILLED SHAFT CONCRETE FOUNDATIONS	CU. YDS	3.80

MONOTUBE - 1 2-17-2017

USER NAME = steffemk	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/15/2018	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**MONOTUBE SIGN STRUCTURE**

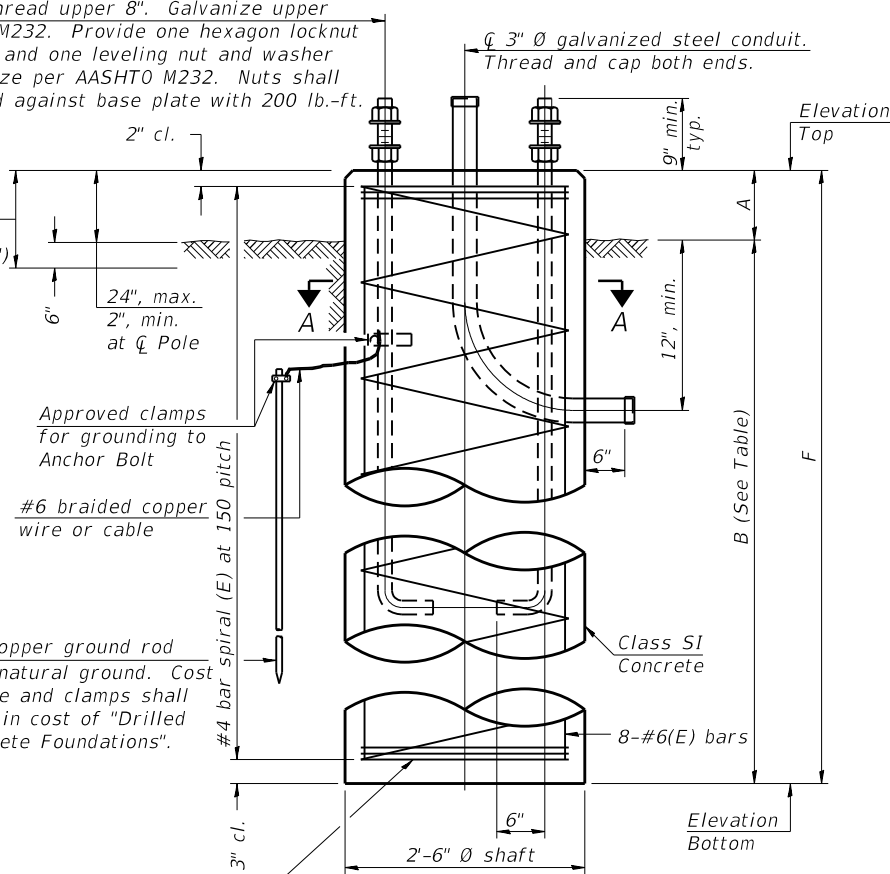
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	47
			CONTRACT NO. 46499	
ILLINOIS				

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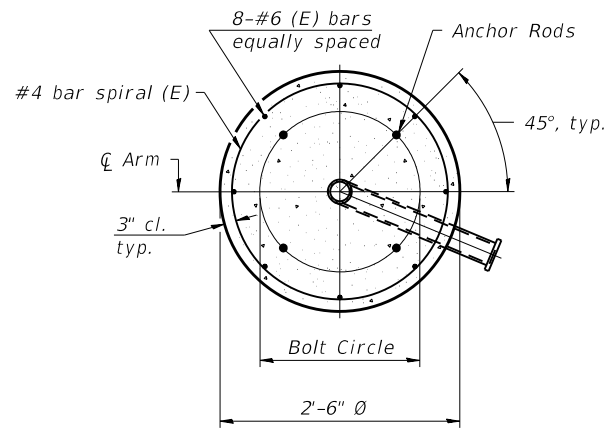
Ø anchor rod. Thread upper 8". Galvanize upper 18" per AASHTO M232. Provide one hexagon locknut and washer (top) and one leveling nut and washer (bottom). Galvanize per AASHTO M232. Nuts shall each be tightened against base plate with 200 lb.-ft. torque.

Limits of Concrete Sealer (Cost included in "Drilled Shaft Concrete Foundations")



**FOUNDATION DETAILS**

Typical, except conduit may only be required at one foundation. Provide conduit openings both poles.



**SECTION A-A**

Foundation Design Table	
Span (Ft.)	B (Ft.)
Span ≤ 45	9
45 < Span ≤ 65	10
65 < Span ≤ 80	11

**FOUNDATIONS:**

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

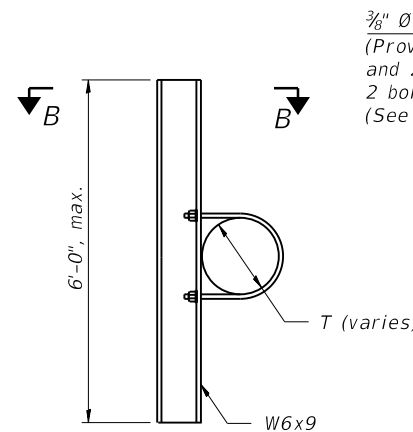
No sonotubes or decomposable forms shall be used below the lower conduit entrance.

Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

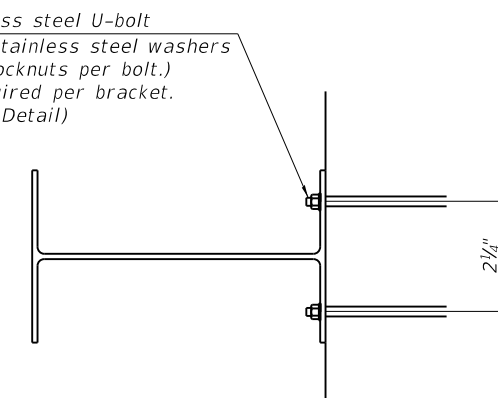
Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.

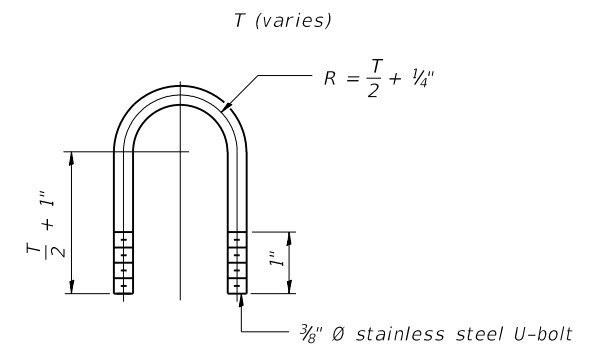


**SIGN MOUNTING BRACKET**  
(Minimum 2 Brackets Each Sign)



**SECTION B-B**

6'-0" maximum spacing.  
2'-0" maximum sign overhang beyond end bracket.



**U-BOLT DETAIL**  
(Typical)

MONOTUBE - 2 2-17-2017

USER NAME = steffemk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/15/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**MONOTUBE SIGN STRUCTURE  
FOUNDATION AND SIGN BRACKETS**

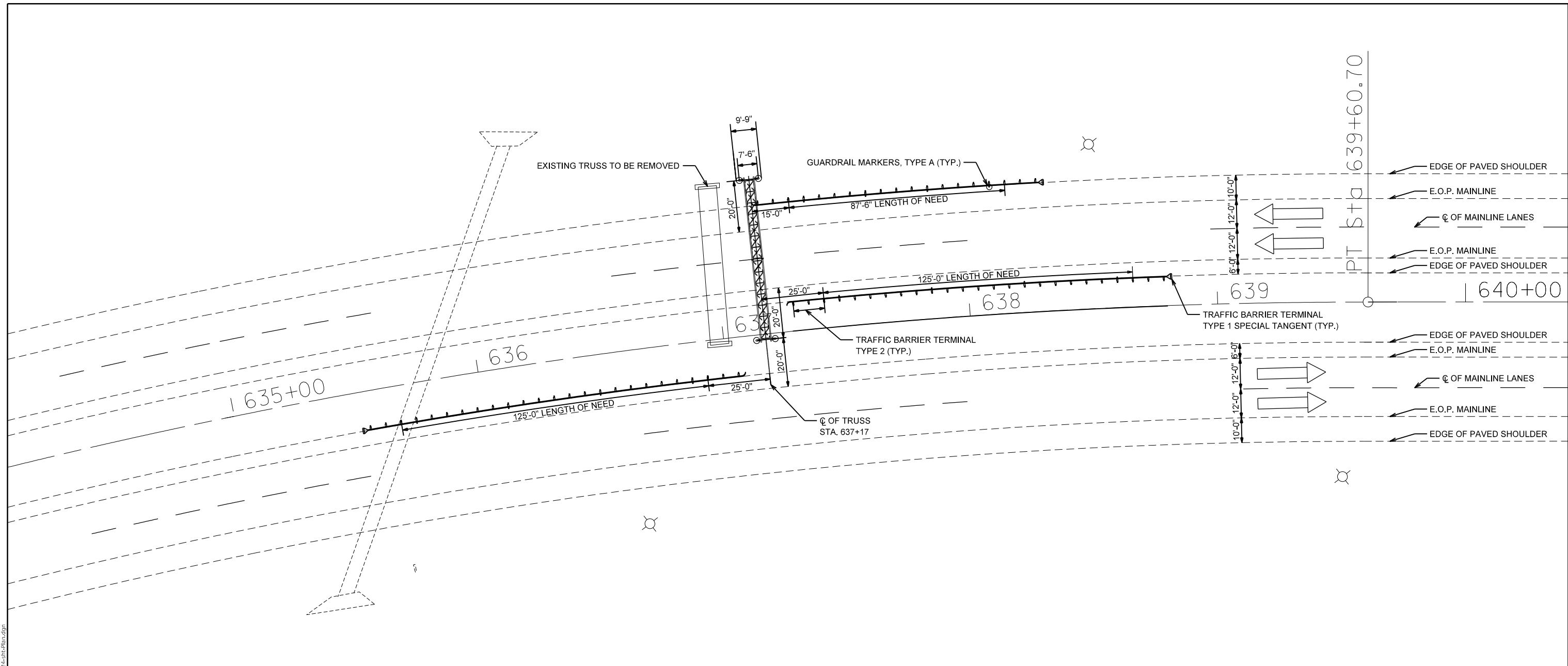
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 46499	
ILLINOIS				

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NOTES:  
 1. THE DRAWING WAS CREATED ASSUMING THAT A 50' TRAFFIC BARRIER TERMINAL WOULD BE USED.

STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS					
STATION	TO	STATION	O/S	LT/RT	FOOT
636+04.5		636+92	14'	RT	87.5
637+32		637+82	54'	LT	50
637+42		638+29.5	14'	LT	87.5

USER NAME = steffemk	DESIGNED -	REVISED -
PLOT SCALE = 40.0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 3/15/2018	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED SIGN TRUSS AND GUARDRAIL PLAN SHEET  
 (LOCATION 7-17) MACON COUNTY US 36**

SCALE: SHEET OF SHEETS STA. TO STA.

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US 36	D-7 OVD SIN STR REPL 19-04	MACON	82	49
			CONTRACT NO. 46499	
ILLINOIS				



SOIL BORING LOG

ROUTE IL 16 EB DESCRIPTION Sign Truss Foundation LOGGED BY E. Sandschafer

SECTION N/A LOCATION E 1/2, SEC. 17, TWP. 12 N, RNG. 8 E, 3 PM

COUNTY Coles DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

Table with columns for STRUCT. NO., BORING NO., Station, D E P T H, B L O W S, U C S, M O I S T, Soil description, Surface Water Elev., Stream Bed Elev., Groundwater Elev., and various depth and blow count data.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

File Name: S:\NEW GEOTECHNICAL\GINTDATA\PROJECTS\COLES CO (015)\015-0000 SOIL 2017 750155016R008.07.CPJ Data Template D6TEMP1.GDT Date Printed 10/23/17



SOIL BORING LOG

ROUTE IL 16 EB DESCRIPTION Sign Truss Foundation LOGGED BY E. Sandschafer

SECTION N/A LOCATION E 1/2, SEC. 17, TWP. 12 N, RNG. 8 E, 3 PM

COUNTY Coles DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

Table with columns for STRUCT. NO., BORING NO., Station, D E P T H, B L O W S, U C S, M O I S T, Soil description, Surface Water Elev., Stream Bed Elev., Groundwater Elev., and various depth and blow count data.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

File Name: S:\NEW GEOTECHNICAL\GINTDATA\PROJECTS\COLES CO (015)\015-0000 SOIL 2017 750155016R008.07.CPJ Data Template D6TEMP1.GDT Date Printed 10/23/17

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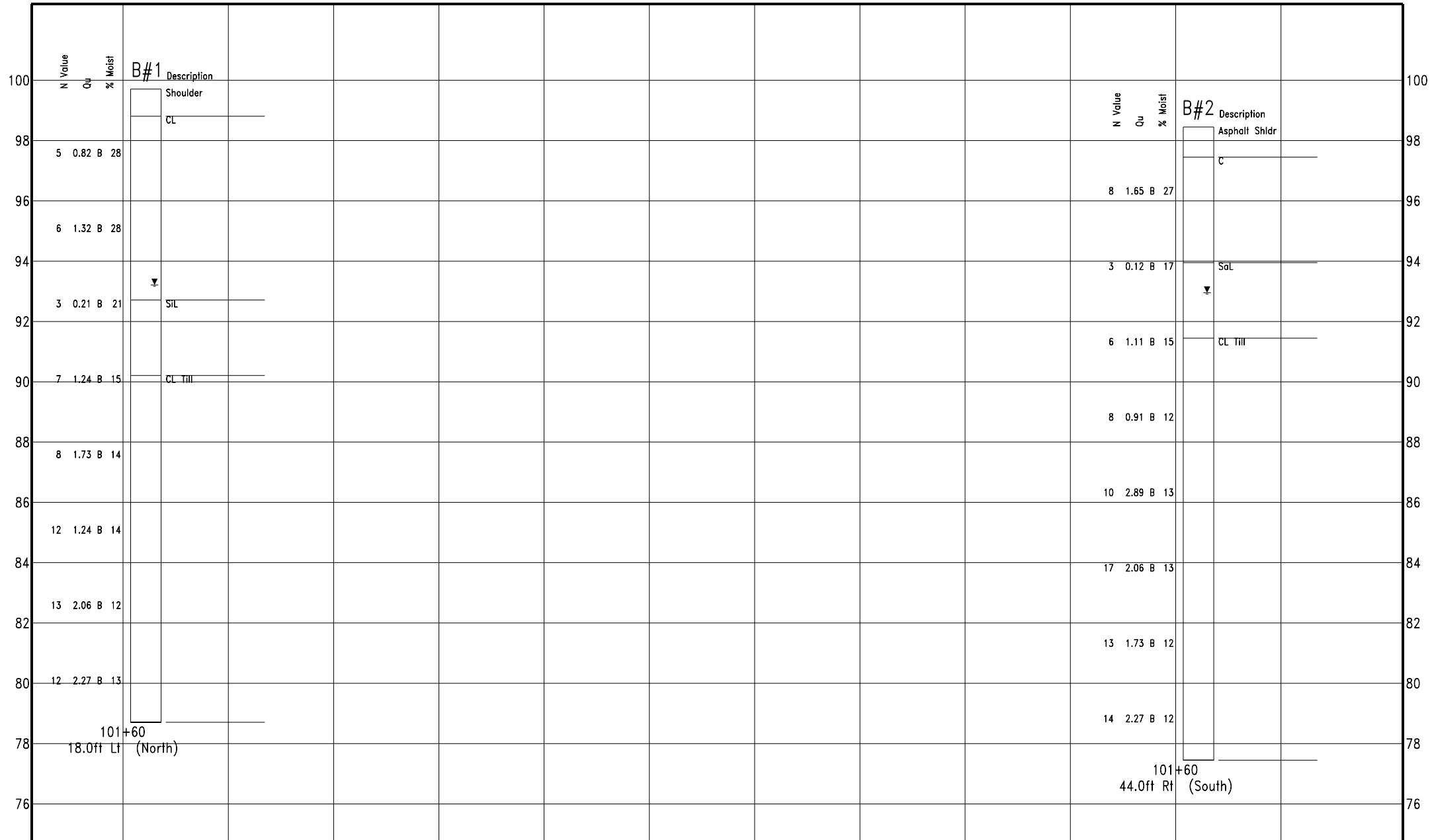
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

Table with columns for BORING LOGS, SCALE, SHEET OF SHEETS, STA., TO STA.

Table with columns for F.A. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., CONTRACT NO.

Structure Number 7S0150S16R008.07 Sign Truss Foundation  
 Located in the E 1/2 of Section 17, Township 12 N, Range 8 E of the 3 P.M.



NOT TO HORIZONTAL SCALE

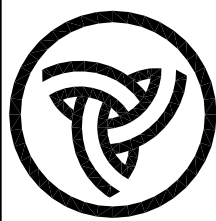
VARIATIONS IN SUBSURFACE  
 CONDITIONS MAY EXIST  
 BETWEEN BORINGS

SUBSURFACE DATA PROFILE

Route: IL 16 EB

Section: N/A

County: Coles



Illinois Department  
 of Transportation

Division of Highways  
 IDOT

Groundwater  
 First Encounter  
 Completion  
 after (refer to log) hours

Abbreviations  
 WOH - Sampler Advanced by Weight  
 of Hammer, WOP - Weight of Pipe  
 B.S. - Before Sealing

TEST FENCE 2 015-0000 SOIL 2017 7S0150S16R008.07.GPJ D6TEMP.LGDT 10/23/17

TEST FENCE 2 015-0000 SOIL 2017 7S0150S16R008.07.GPJ D6TEMP.LGDT 10/23/17

USER NAME = steffemk	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/15/2018	DATE -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
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SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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BORING LOGS	
ILLINOIS	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	51
CONTRACT NO. 46499				

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# SOIL BORING LOG

ROUTE I-57 SB DESCRIPTION Cantilever Sign Foundation LOGGED BY E. Sandschafer

SECTION N/A LOCATION E 1/2, SEC. 17, TWP. 12 N, RNG. 8 E, 3 PM

COUNTY Coles DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. <u>7C015I057L189.5</u>	D E P T H	B L O W S	U C S Qu	M O I S T	Surface Water Elev. <u>N/A</u> ft	D E P T H	B L O W S	U C S Qu	M O I S T
Station <u>786+10</u>					Stream Bed Elev. <u>N/A</u> ft				
BORING NO. <u>1</u>	(ft)	/6"	(tst)	(%)	Groundwater Elev.:	(ft)	/6"	(tst)	(%)
Station <u>786+15</u>					▽ First Encounter <u>Dry</u> ft				
Offset <u>27.0ft Lt (West)</u>					▽ Upon Completion <u>Dry</u> ft				
Ground Surface Elev. <u>98.71</u> ft					▽ After <u>24</u> Hrs. <u>80.3</u> ft				

12" asphalt on 10" improved subbase (soil cement).					Medium, damp, gray, CLAY LOAM. (continued)				
96.81					76.71				
Stiff to very stiff, damp, brown, CLAY LOAM, embankment.					Stiff, damp, brown, CLAY LOAM.				
	4		+3.5	21		1		0.04	21
	4		PP			1		B	
	2					3			
	-5					-25			
	3	1.65		15		3	1.24		15
	5		B		72.71	4		B	
					Extent of exploration.				
	5								
	6	2.68		13	Benchmark: TBM Centerline of SB I-57 lanes, Sta 786+10 = assumed 100.00'				
	7		B						
					Note offset given is from Centerline of SB I-57 lanes, not Centerline of survey.				
	-10					-30			
	4								
	5	2.06		16					
	6		B						
	3								
	3	1.40		27					
	4		B						
84.21									
Stiff to very stiff, damp, brown, CLAY LOAM TILL, embankment.									
	-15					-35			
	7								
	10	6.18		14					
	14		B						
	4								
	5	3.09		15					
	7		B						
79.21									
Medium, damp, gray, CLAY LOAM.									
	-20					-40			

File Name: SA NEW GEOTECHNICAL\GINT\DATA\PROJECTS\COLES CO (015)\015-0000 SOIL 2017 7C015I057L189.5.GPJ Data Template 06TEMP11.DOT Date Printed 10/23/17  
Latitude N 38.322076 deg Longitude W 99.483648 deg Datum "Job Number"

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)  
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

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USER NAME = steffennk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/15/2018	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BORING LOGS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	52
			CONTRACT NO. 46499	
		ILLINOIS		



# SOIL BORING LOG

ROUTE FAI 57 (I-57) DESCRIPTION Sign Truss Foundation LOGGED BY E. Sandschafer

SECTION N/A LOCATION SE, SEC. 36, TWP. 8 N, RNG. 5 E, 3 PM

COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 7S025I057R157.3  
 Station 5021+35

BORING NO. 1 (East)  
 Station 5021+35  
 Offset 19.0ft Rt (East)  
 Ground Surface Elev. 99.50 ft

DEPTWHS Qu T  
 E L C O  
 P O S I  
 T W S T  
 H S Qu T

Surface Water Elev. N/A ft  
 Stream Bed Elev. N/A ft  
 Groundwater Elev.:  
 ▽ First Encounter Dry ft  
 ▽ Upon Completion Dry ft  
 ▽ After 24 Hrs. Dry ft

Depth (ft)	Soil Description	Blow Count (B)	Penetration (P)	U.C.S. (tst)	Notes
0 - 24	12.25" asphalt shoulder on 8" gravel subbase.				
24 - 31	Hard, damp, brown, SANDY CLAY LOAM TILL.	24	5.98	9	
31 - 77.50	Stiff to medium, damp, brown, CLAY LOAM, embankment.	4			
77.50 - 87.00	Hard, damp, brown, CLAY LOAM TILL.	7			
87.00 - 91.47	Stiff, damp, brown, CLAY LOAM, embankment.	4	2.06	18	
91.47 - 93.70	Stiff, damp, brown, CLAY LOAM, embankment.	5	B		
93.70 - 94.70	Extent of exploration.				
94.70 - 97.50	Medium, damp, brown, SANDY CLAY LOAM, embankment.	4	0.75	18	
97.50 - 100.00	Hard, damp, brown, CLAY LOAM TILL.	4	+4.5	9	
100.00 - 102.00	Stiff, damp, gray, SILTY CLAY.	4	1.03	23	
102.00 - 104.00	Hard, damp, gray, CLAY LOAM TILL.	12			
104.00 - 107.00	Hard, damp, gray, CLAY LOAM TILL.	20	7.42	8	
107.00 - 110.00	Hard, damp, gray, CLAY LOAM TILL.	27	BS		
110.00 - 115.00	Hard, damp, gray, CLAY LOAM TILL.	15			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)  
 Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating  
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



# SOIL BORING LOG

ROUTE FAI 57 (I-57) DESCRIPTION Sign Truss Foundation LOGGED BY E. Sandschafer

SECTION N/A LOCATION SE, SEC. 36, TWP. 8 N, RNG. 5 E, 3 PM

COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 7S025I057R157.3  
 Station 5021+35

BORING NO. 2 (West)  
 Station 5021+35  
 Offset 31.0ft Lt (West)  
 Ground Surface Elev. 98.47 ft

DEPTWHS Qu T  
 E L C O  
 P O S I  
 T W S T  
 H S Qu T

Surface Water Elev. N/A ft  
 Stream Bed Elev. N/A ft  
 Groundwater Elev.:  
 ▽ First Encounter Dry ft  
 ▽ Upon Completion Dry ft  
 ▽ After 24 Hrs. 80.0 ft

Depth (ft)	Soil Description	Blow Count (B)	Penetration (P)	U.C.S. (tst)	Notes
0 - 4	11.25" asphalt shoulder on 8" gravel subbase.				
4 - 5	Medium to hard, damp, gray/brown, CLAY LOAM TILL.	4	2.47	16	
5 - 20	Stiff, damp, brown, CLAY LOAM, embankment.	5			
20 - 24	Stiff, damp, brown, CLAY LOAM, embankment.	4	1.75	12	
24 - 27	Stiff, damp, brown, CLAY LOAM, embankment.	4	PP		
27 - 31	Stiff, damp, brown, CLAY LOAM, embankment.	2			
31 - 33	Low recovery, rock in sampler shoe.	3	1.73	20	
33 - 34	Low recovery, rock in sampler shoe.	4	B		
34 - 91.47	Medium, damp, brown, SANDY CLAY LOAM, embankment.	3			
91.47 - 92.00	Medium, damp, brown, SANDY CLAY LOAM, embankment.	2	0.66	14	
92.00 - 93.00	Medium, damp, brown, SANDY CLAY LOAM, embankment.	3	B		
93.00 - 94.00	Low recovery, rock in sampler shoe.	1			
94.00 - 95.00	Low recovery, rock in sampler shoe.	2	0.49	20	
95.00 - 96.00	Low recovery, rock in sampler shoe.	3	B		
96.00 - 97.00	Extent of exploration.				
97.00 - 98.47	Stiff, damp, brown, CLAY, embankment.	3			
98.47 - 100.00	Stiff, damp, brown, CLAY, embankment.	5	1.90	21	
100.00 - 102.00	Stiff, damp, brown, CLAY, embankment.	7	B		
102.00 - 103.00	Stiff, damp, gray, CLAY LOAM TILL.	3			
103.00 - 104.00	Stiff, damp, gray, CLAY LOAM TILL.	2	+4.5	10	
104.00 - 106.00	Stiff, damp, gray, CLAY LOAM TILL.	4	PP		
106.00 - 107.00	Stiff, damp, gray, CLAY LOAM TILL.	6			
107.00 - 108.00	Stiff, damp, gray, CLAY LOAM TILL.	2	1.03	19	
108.00 - 110.00	Stiff, damp, gray, CLAY LOAM TILL.	5	B		
110.00 - 115.00	Stiff, damp, gray, CLAY LOAM TILL.	3			

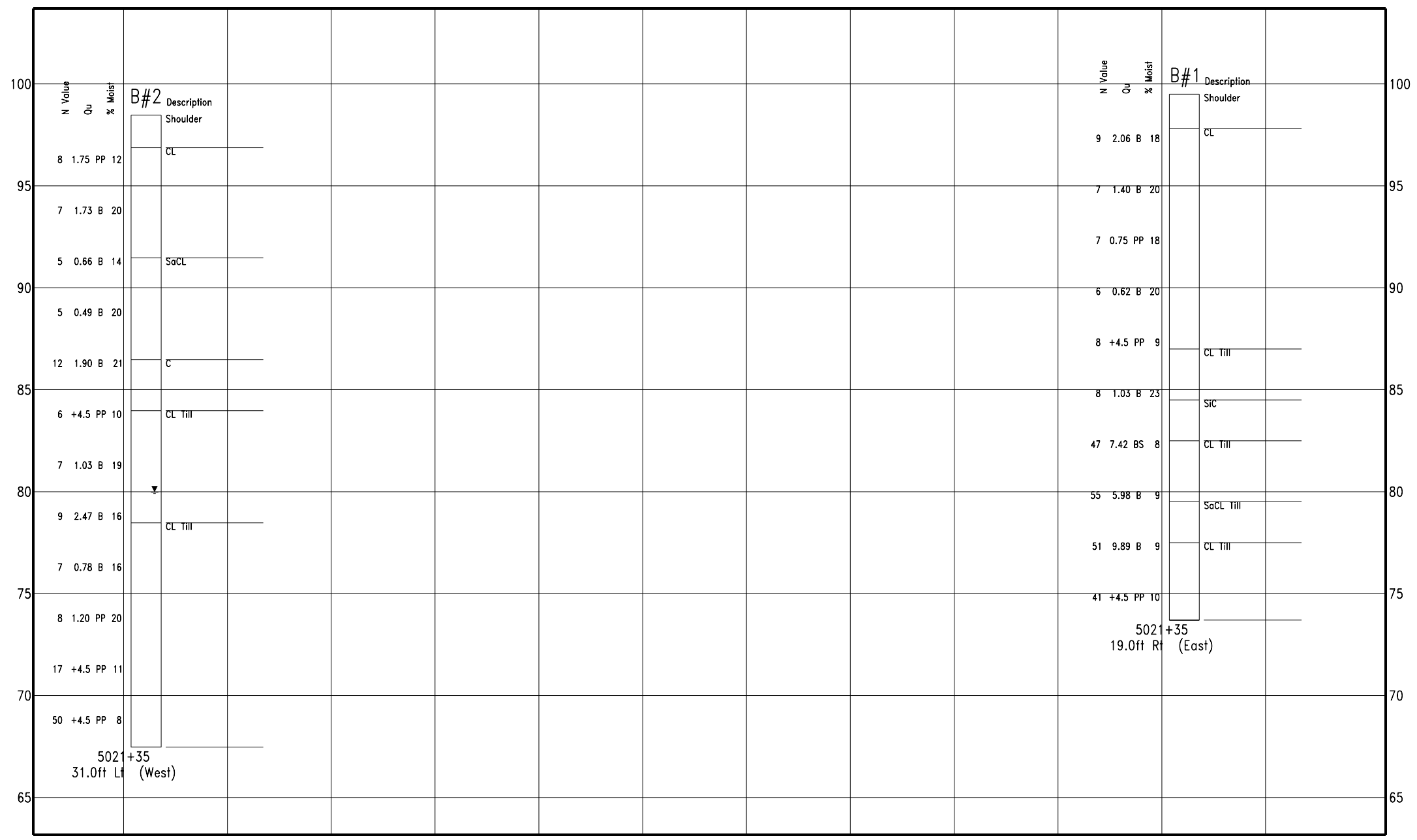
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)  
 Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating  
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

File Name: S:\NEW GEOTECHNICAL\GINT\DATA\PROJECTS\EFFINGHAM CO (025)\025-0000 SOIL 2017 (7S025I057R157.3 SIGN TRUSS).GPJ Date Template D6TEMP1.GDT Date Printed 11/1/17  
 Latitude N 38.37949 deg Longitude W 98.092013 deg Datum Job Number

File Name: S:\NEW GEOTECHNICAL\GINT\DATA\PROJECTS\EFFINGHAM CO (025)\025-0000 SOIL 2017 (7S025I057R157.3 SIGN TRUSS).GPJ Date Template D6TEMP1.GDT Date Printed 11/1/17  
 Latitude N 38.380226 deg Longitude W 98.092013 deg Datum Job Number

Structure Number 7S025I057R157.3 Sign Truss Foundation  
 Located in the SE of Section 36, Township 8 N, Range 5 E of the 3 P.M.

TEST FENCE 2 025-0000 SOIL 2017 (7S025I057R157.3 SIGN TRUSS).GPJ D6TEMPLT.GDT 11/1/17



TEST FENCE 2 025-0000 SOIL 2017 (7S025I057R157.3 SIGN TRUSS).GPJ D6TEMPLT.GDT 11/1/17

NOT TO HORIZONTAL SCALE

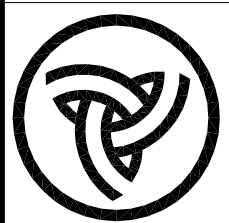
VARIATIONS IN SUBSURFACE  
 CONDITIONS MAY EXIST  
 BETWEEN BORINGS

SUBSURFACE DATA PROFILE

Route: FAI 57 (I-57)

Section: N/A

County: Effingham



Illinois Department  
 of Transportation  
 Division of Highways  
 IDOT

Groundwater  
 First Encounter  
 Completion  
 after (refer to log) hours

Abbreviations  
 WOH - Sampler Advanced by Weight  
 of Hammer, WOP - Weight of Pipe  
 B.S. - Before Sealing

MODEL: Default  
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USER NAME = steffemk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/15/2018	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BORING LOGS			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	54
			CONTRACT NO. 46499	
ILLINOIS				



# SOIL BORING LOG

ROUTE FAI 70 (I-70) WB DESCRIPTION Cantilever Sign Truss LOGGED BY E. Sandschafer

SECTION N/A LOCATION Section 8 - NW and SW, SEC. , TWP. 7 N, RNG. 5 E, 3 PM

COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 7C0251070L87.2  
Station 1785+46

BORING NO. 1  
Station 1785+46  
Offset 95.0ft Lt (North)  
Ground Surface Elev. 584.30 ft

D E P T H (ft)	B L O W S (blows)	U C S (tsf)	M O I S T (%)	Description	D E P T H (ft)	B L O W S (blows)	U C S (tsf)	M O I S T (%)
583.80				Aggregate Shoulder.	23			
				Medium, damp, brown, SANDY CLAY LOAM w/ some 3/4" Gravel.	23			
	4							
	6	0.44	9					
	7	S						
579.80				No Recovery, estimated SaCL as above.	35			
	2				40		17	
	3				50/5"			
	9			8% passing #200 sieve.				
577.30				Loose, moist, brown, fine grained, fluffy, SAND. 39% passing #200 sieve.	32			
	2				42	3.27	14	
	3		5		50/5"	S		
	4							
554.80				Very stiff, damp, gray, SANDY LOAM.	35			
	11				45	7.86	15	
	27			Hard, damp, gray, SILTY LOAM.	50/4"	S		
	39							
573.40				Dense, damp, brown, SANDY CLAY LOAM to SAND.				
	12							
	17		10	Benchmark: Top Iron Pin #106 NE Corner of Car Parking at WB National Trail Rest Area = 597.29' elevation.				
	17							
569.80				Medium to dense, wet, brown, fine grained, SAND.	35			
	15				45			
	21							
	26			Cantilever sign truss foundation at off ramp to the I-70 WB National Trail Rest Area.				
	12							
	13		21					
	17			27% passing #200 sieve.				
	16							
564.30					-40			

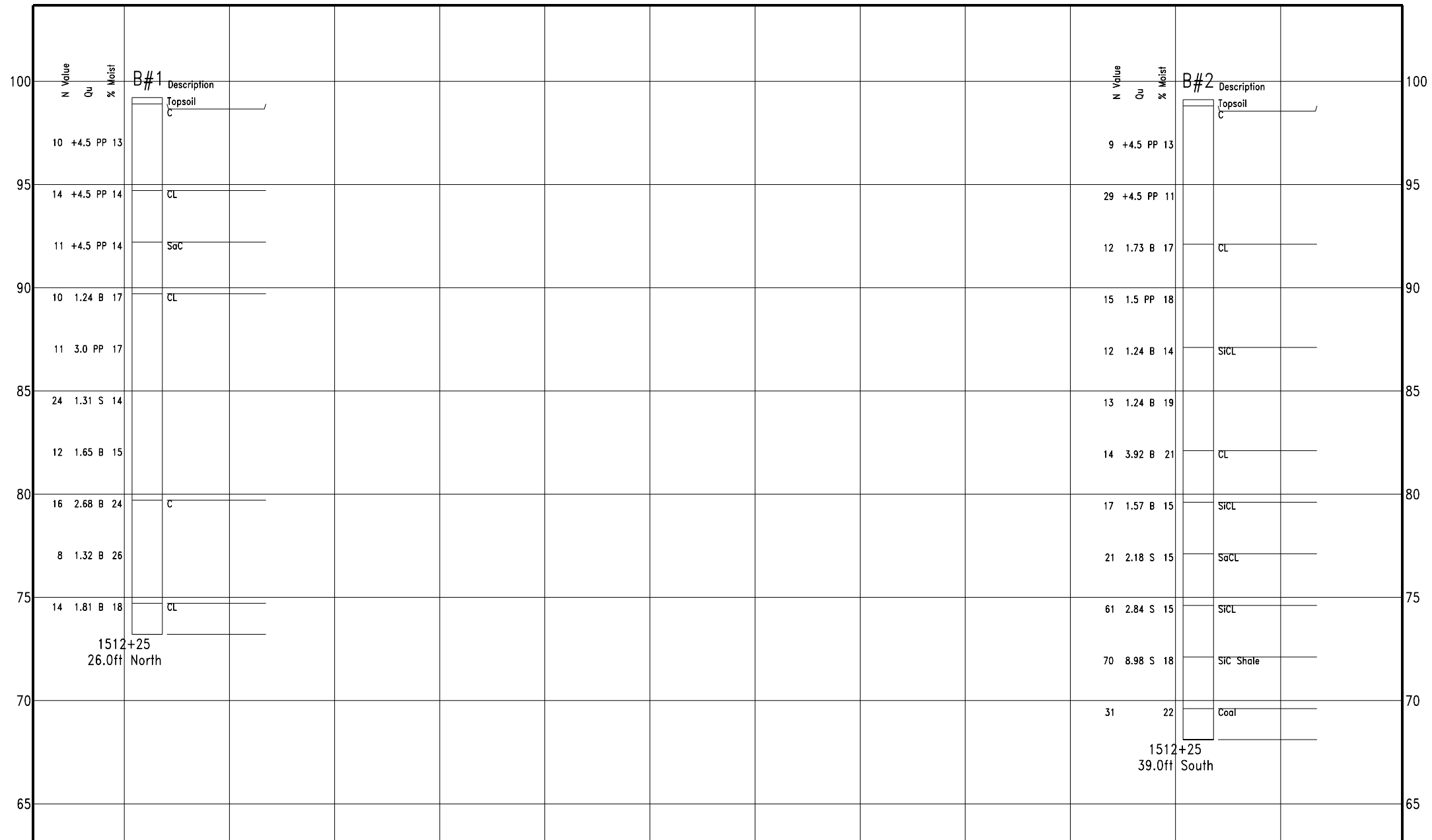
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Latitude: N 38.866234 Longitude: W 89.066901 Datum: Job Number

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)  
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)





Structure Number 7S051U050R011.10 Sign Truss Foundation  
 Located in the SE 1/4 of Section 35, Township 4 N, Range 12 W of the 3 P.M.

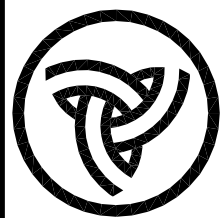


NOT TO HORIZONTAL SCALE

VARIATIONS IN SUBSURFACE  
 CONDITIONS MAY EXIST  
 BETWEEN BORINGS

SUBSURFACE DATA PROFILE

Route: US 50  
 Section: N/A  
 County: Lawrence



Illinois Department  
 of Transportation  
 Division of Highways  
 IDOT

Groundwater  
 ▽ First Encounter  
 ▽ Completion  
 ▽ after (refer to log) hours

Abbreviations  
 WOH - Sampler Advanced by Weight  
 of Hammer, WOP - Weight of Pipe  
 B.S. - Before Sealing

TEST FENCE 2 051-0000 SOIL 2017 (7S051U050R011.10 SIGN TRUSS).GPJ D6TEMP1.GDT 10/24/17

TEST FENCE 2 051-0000 SOIL 2017 (7S051U050R011.10 SIGN TRUSS).GPJ D6TEMP1.GDT 10/24/17

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USER NAME = steffenmk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/15/2018	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BORING LOGS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR D-7 OVD SIN SRT REPL 19-04		VARIOUS	82	57
ILLINOIS			CONTRACT NO. 46499	



# SOIL BORING LOG

Date 10/25/16

ROUTE US 36 WB DESCRIPTION Sign Truss Foundation LOGGED BY E. Sandschafer

SECTION N/A LOCATION E 1/2, SEC. 13, TWP. 16 N, RNG. 1 E, 3 PM

COUNTY Macon DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 7S058U036L031.5  
 Station 637+17

BORING NO. 1  
 Station 637+17  
 Offset 27.0ft Lt (North)  
 Ground Surface Elev. 99.74 ft

DEP T W H S Qu T  
 E L C O  
 P O S I  
 T W S T

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

Groundwater Elev.:  
 First Encounter Dry ft  
 Upon Completion 87.7 ft  
 After 48 Hrs. 88.7 ft

DEPTH (ft)	DIAMETER (in)	SOIL TYPE	U (tsf)	B (tsf)	M (tsf)
0	6"	6" Topsoil.			
0.24		Hard to stiff, damp, brown mottled gray, CLAY LOAM.			
8					
9	6.18				15
10	B				
-5	3				
-4	1.90				16
-4	B				
4					
4	1.07				15
5	B				
90.24		Stiff, damp, gray/black/brown, CLAY.			
-10	3				
-4	1.24				15
-4	B				
2					
3	1.32				15
3	B				
85.24		Very stiff, damp, gray, CLAY LOAM TILL.			
-15	5				
-7	3.92				15
-11	B				
7					
9	2.47				14
12	B				
-20	5				

Very stiff, damp, gray, CLAY LOAM TILL. (continued)  
 78.74

Extent of exploration.

Benchmark: TBM centerline of WB US 36 lanes, Sta 637+17 = assumed 100.00'

Note: Offset given from Centerline of WB US 36 lanes, not Centerline of survey.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)  
 Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating  
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



# SOIL BORING LOG

Date 10/25/17

ROUTE US 36 WB DESCRIPTION Sign Truss Foundation LOGGED BY E. Sandschafer

SECTION N/A LOCATION E 1/2, SEC. 13, TWP. 16 N, RNG. 1 E, 3 PM

COUNTY Macon DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 7S058U036L031.5  
 Station 637+17

BORING NO. 2 Median  
 Station 637+17  
 Offset 22.0ft Rt (South)  
 Ground Surface Elev. 98.55 ft

DEP T W H S Qu T  
 E L C O  
 P O S I  
 T W S T

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

Groundwater Elev.:  
 First Encounter Dry ft  
 Upon Completion 89.6 ft  
 After 24 Hrs. 90.6 ft

DEPTH (ft)	DIAMETER (in)	SOIL TYPE	U (tsf)	B (tsf)	M (tsf)
0	6"	Topsoil.			
0.05		Stiff to medium, damp, gray, CLAY LOAM.			
4					
5	1.98				15
6	B				
-5	4				
-6	1.40				15
-7	B				
4					
5	1.65				16
6	B				
-10	3				
-3	0.74				14
-3	B				
86.55		Very stiff, to hard, damp, brown to gray, CLAY LOAM TILL.			
2					
4	3.71				15
8	B				
-15	11				
-13	5.77				15
-17	B				
7					
12	3.50				14
14	B				
80.05		Extent of exploration.			
-20					

Benchmark: TBM centerline of WB US 36 lanes, Sta 637+17 = assumed 100.00'

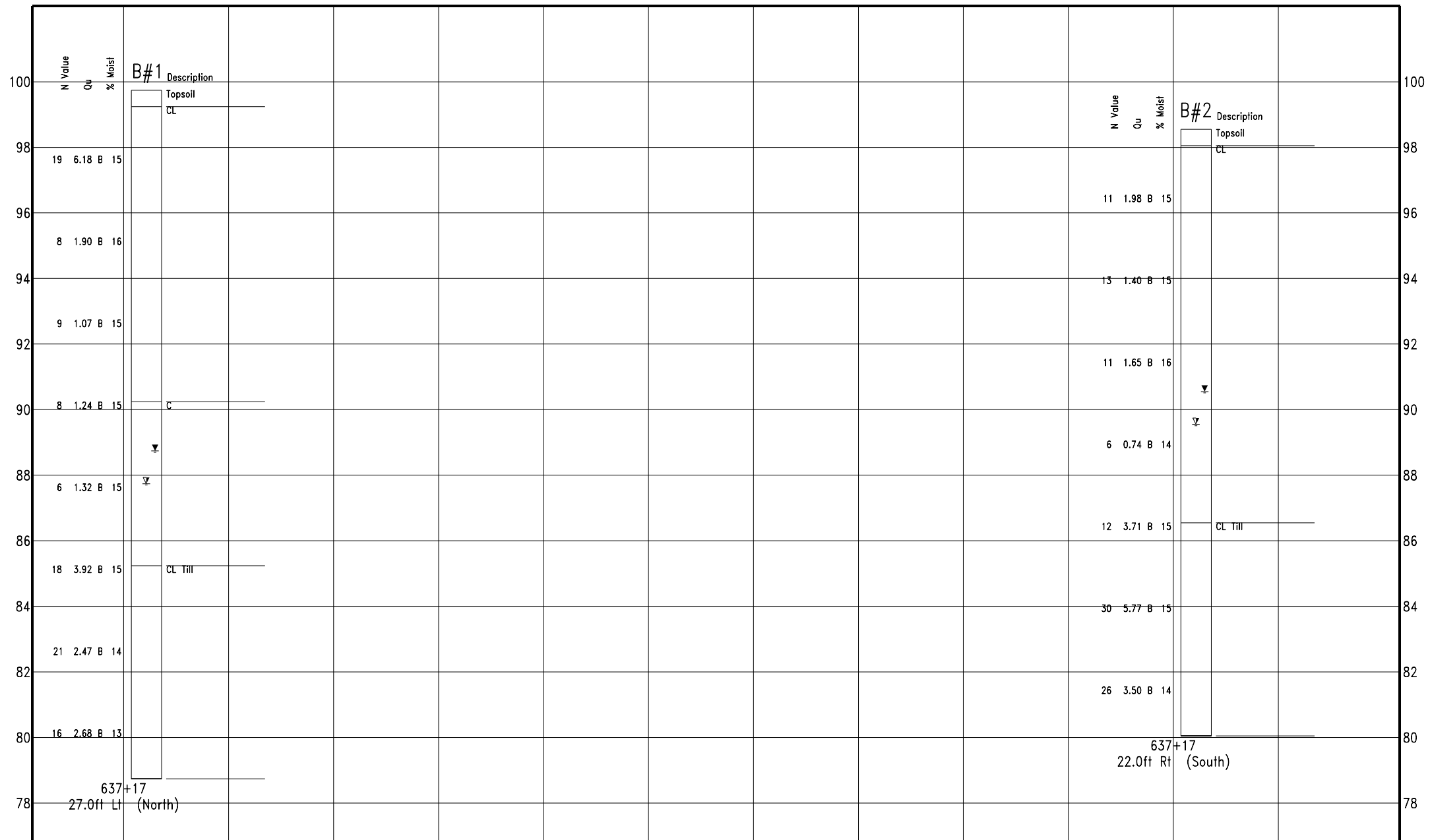
Note: Offset given from Centerline of WB US 36 lanes, not Centerline of survey.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)  
 Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating  
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

File Name: S:\NEW GEOTECHNICAL\GINTDATA\PROJECTS\MACON CO (058)\058-0000 SOIL 2017 SIGN TRUSS 7S058U036L031.5.GPJ Data Template 06TEMP11.DOT Date Printed 10/24/17  
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Structure Number 7S058U036L031.5 Sign Truss Foundation  
 Located in the E 1/2 of Section 13, Township 16 N, Range 1 E of the 3 P.M.



NOT TO HORIZONTAL SCALE

VARIATIONS IN SUBSURFACE  
 CONDITIONS MAY EXIST  
 BETWEEN BORINGS

SUBSURFACE DATA PROFILE

Route: US 36 WB  
 Section: N/A  
 County: Macon



Illinois Department  
 of Transportation  
 Division of Highways  
 IDOT

Groundwater  
 ▽ First Encounter  
 ▽ Completion  
 ▽ after (refer to log) hours

Abbreviations  
 WOH - Sampler Advanced by Weight  
 of Hammer, WOP - Weight of Pipe  
 B.S. - Before Sealing

TEST FENCE 2 058-0000 SOIL 2017 SIGN TRUSS 7S058U036L031.5.GPJ D6TEMP.LT.GDT 10/24/17

TEST FENCE 2 058-0000 SOIL 2017 SIGN TRUSS 7S058U036L031.5.GPJ D6TEMP.LT.GDT 10/24/17

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USER NAME = steffemk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/15/2018	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BORING LOGS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	59
			CONTRACT NO. 46499	
ILLINOIS				



# SOIL BORING LOG

ROUTE I 72 WB DESCRIPTION Sign Truss Foundation LOGGED BY E. Sandschafer

SECTION N/A LOCATION NW 1/4, SEC. 13, TWP. 16 N, RNG. 1 E, 3 PM

COUNTY Macon DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 7S0581072L134.3  
Station 324+15  
BORING NO. 1 (West)  
Station 324+09  
Offset 25.0ft Lt (West)  
Ground Surface Elev. 99.31 ft

DEPTH (ft)	DIAMETER (in)	SOIL TYPE	WATER	REMARKS
				Surface Water Elev. N/A ft
				Stream Bed Elev. N/A ft
				Groundwater Elev.:
				First Encounter Dry ft
				Upon Completion Dry ft
				After 24 Hrs. Dry ft

DEPTH (ft)	DIAMETER (in)	SOIL TYPE	WATER	REMARKS
97.31	6"	Very stiff, damp, gray, CLAY LOAM, embankment.		
77.31	6"	Hard to stiff, damp, brown, CLAY LOAM.		
73.31	6"	Extent of exploration.		
		Benchmark: TBM centerline of I-72 WB lanes, Sta 324+09 = assumed 100.00'		
		Note: Offset given from Centerline of WB I-72 lanes, not Centerline of survey.		
79.31	6"			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)  
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



# SOIL BORING LOG

ROUTE I 72 WB DESCRIPTION Sign Truss Foundation LOGGED BY E. Sandschafer

SECTION N/A LOCATION NW 1/4, SEC. 13, TWP. 16 N, RNG. 1 E, 3 PM

COUNTY Macon DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 7S0581072L134.3  
Station 324+15  
BORING NO. 2 (Median)  
Station 324+09  
Offset 66.0ft Rt (East)  
Ground Surface Elev. 95.70 ft

DEPTH (ft)	DIAMETER (in)	SOIL TYPE	WATER	REMARKS
				Surface Water Elev. N/A ft
				Stream Bed Elev. N/A ft
				Groundwater Elev.:
				First Encounter Dry ft
				Upon Completion Dry ft
				After 168 Hrs. 94.7 ft

DEPTH (ft)	DIAMETER (in)	SOIL TYPE	WATER	REMARKS
93.70	6"	Very stiff, damp, gray to brown, CLAY LOAM TILL.		
69.70	6"	Extent of exploration.		
		Benchmark: TBM centerline of I-72 WB lanes, Sta 324+09 = assumed 100.00'		
		Note: Offset given from Centerline of WB I-72 lanes, not Centerline of survey.		
75.70	6"			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)  
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

MODEL: Default  
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File Name: S:\NEW GEOTECHNICAL\GINTDATA\PROJECTS\MACON CO (058)\058-0000 SOIL 2017 SIGN TRUSS 7S0581072L134.3.CPJ Data Template 06TEMP1.DOT Date Printed 10/24/17  
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USER NAME = steffenmk	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/15/2018	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

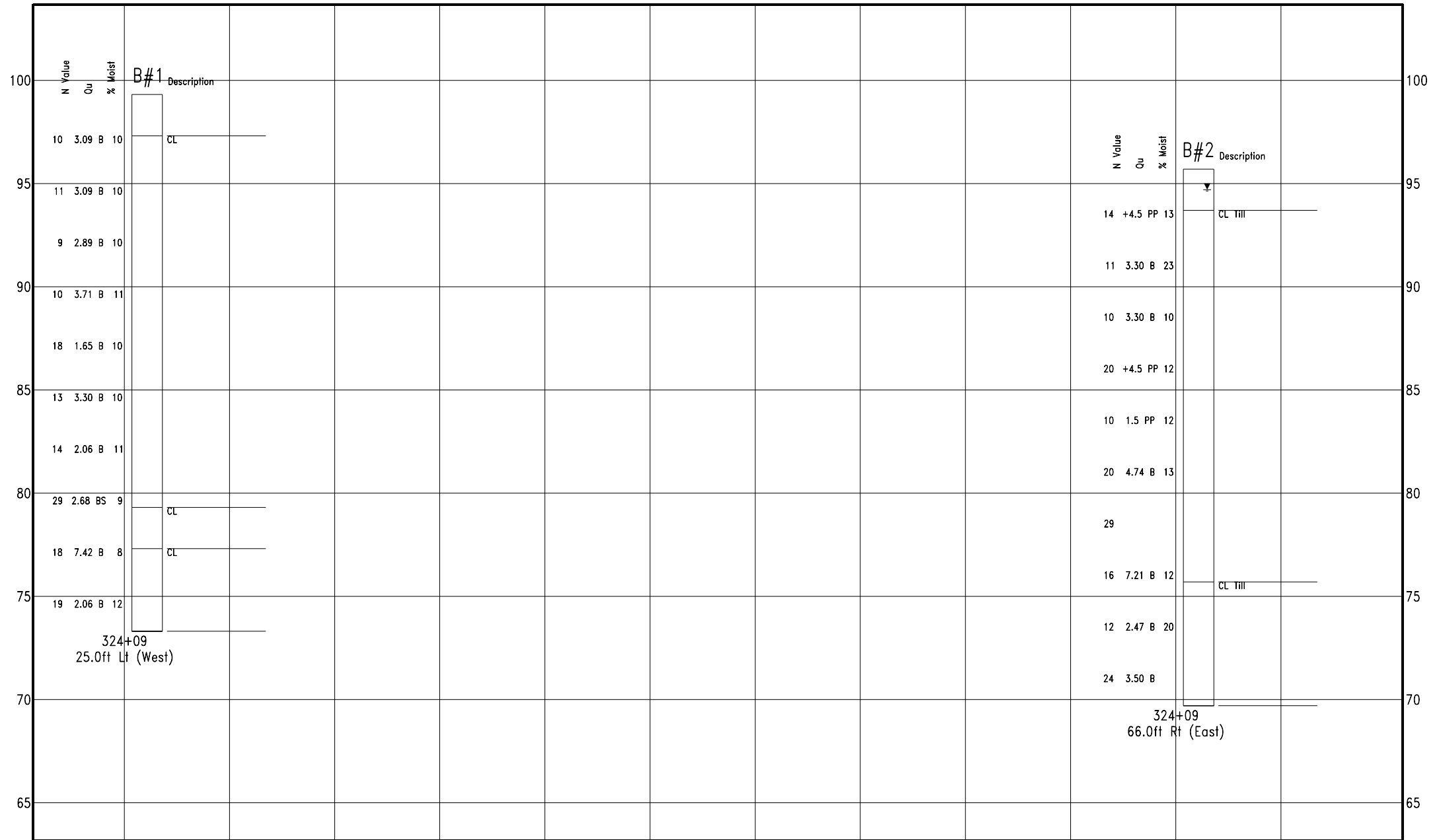
BORING LOGS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	60
			CONTRACT NO. 46499	
ILLINOIS				

Structure Number 7S0581072L134.3 Sign Truss Foundation  
 Located in the NW 1/4 of Section 13, Township 16 N, Range 1 E of the 3 P.M.

TEST FENCE 2 058-0000 SOIL 2017 SIGN TRUSS 7S0581072L134.3.GPJ D6TEMPL1.GDT 10/24/17



TEST FENCE 2 058-0000 SOIL 2017 SIGN TRUSS 7S0581072L134.3.GPJ D6TEMPL1.GDT 10/24/17

NOT TO HORIZONTAL SCALE

VARIATIONS IN SUBSURFACE  
 CONDITIONS MAY EXIST  
 BETWEEN BORINGS

SUBSURFACE DATA PROFILE

Route: I 72 WB  
 Section: N/A  
 County: Macon



Illinois Department  
 of Transportation  
 Division of Highways  
 IDOT

Groundwater  
 ▽ First Encounter  
 ▽ Completion  
 ▽ after (refer to log) hours

Abbreviations  
 WOH - Sampler Advanced by Weight  
 of Hammer, WOP - Weight of Pipe  
 B.S. - Before Sealing

MODEL: Default  
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USER NAME = steffenmk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/15/2018	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BORING LOGS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	61
			CONTRACT NO. 46499	
ILLINOIS				



SOIL BORING LOG

Date 8/15/17

ROUTE US 36 WB DESCRIPTION Sign Truss Foundation LOGGED BY E. Sandschafer

SECTION N/A LOCATION E 1/2, SEC. 14, TWP. 16 N, RNG. 1 E, 3 PM

COUNTY Macon DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 7S058U036L031.0 Station 610+80 BORING NO. 1 Station 610+93 Offset 30.0ft Lt (North) Ground Surface Elev. 99.32 ft

Table with columns for Depth (ft), Diameter (in), Soil Description, and SPT (blows/ft). Includes soil types like 'Very stiff, damp, gray, CLAY' and 'Stiff, damp, brown, CLAY'.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Date 7/25/17

ROUTE US 36 WB DESCRIPTION Sign Truss Foundation LOGGED BY E. Sandschafer

SECTION N/A LOCATION E 1/2, SEC. 14, TWP. 16 N, RNG. 1 E, 3 PM

COUNTY Macon DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 7S058U036L031.0 Station 610+80 BORING NO. 2 (Median) Station 610+93 Offset 33.0ft Rt (South) Ground Surface Elev. 98.07 ft

Table with columns for Depth (ft), Diameter (in), Soil Description, and SPT (blows/ft). Includes soil types like 'Very stiff, damp, brown, CLAY LOAM TILL' and 'Very stiff, damp, gray, CLAY LOAM'.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

File Name: S:\NEW GEOTECHNICAL\GINTDATA\PROJECTS\MACON CO (058)\058-0000 SOIL 2017 SIGN TRUSS 7S058U036L031.0.GPJ Data Template 06TEMP11.DOT Date Printed 10/24/17

File Name: S:\NEW GEOTECHNICAL\GINTDATA\PROJECTS\MACON CO (058)\058-0000 SOIL 2017 SIGN TRUSS 7S058U036L031.0.GPJ Data Template 06TEMP11.DOT Date Printed 10/24/17

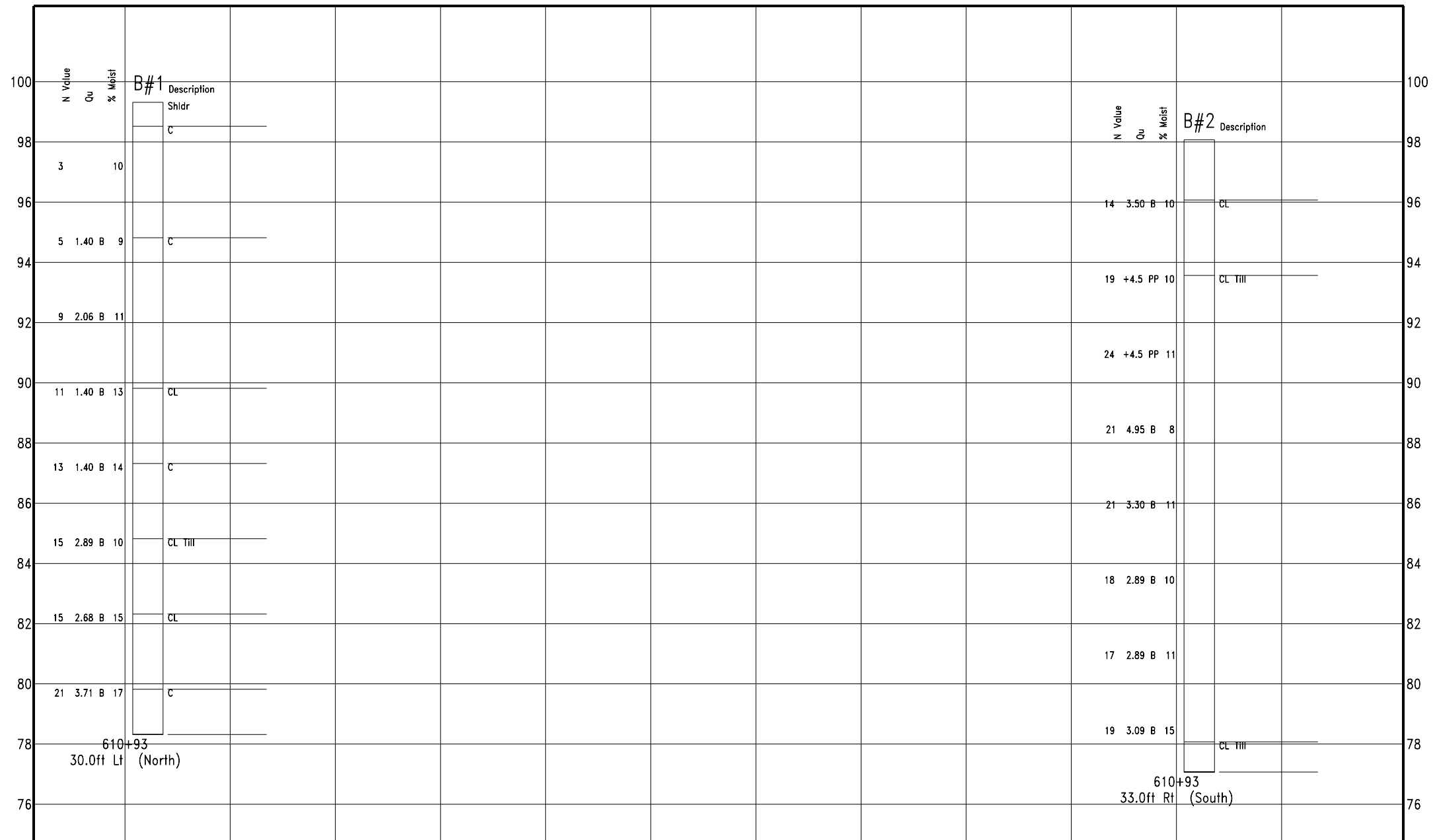
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

Table with columns: SCALE, SHEET, OF, SHEETS, STA., TO, STA.

Table with columns: F.A. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., CONTRACT NO.

Structure Number 7S058U036L031.0 Sign Truss Foundation  
 Located in the E 1/2 of Section 14, Township 16 N, Range 1 E of the 3 P.M.

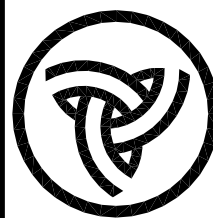


NOT TO HORIZONTAL SCALE

VARIATIONS IN SUBSURFACE  
 CONDITIONS MAY EXIST  
 BETWEEN BORINGS

SUBSURFACE DATA PROFILE

Route: US 36 WB  
 Section: N/A  
 County: Macon



Illinois Department  
 of Transportation  
 Division of Highways  
 IDOT

Groundwater  
 ▽ First Encounter  
 ▽ Completion  
 ▽ after (refer to log) hours

Abbreviations  
 WOH - Sampler Advanced by Weight  
 of Hammer, WOP - Weight of Pipe  
 B.S. - Before Seating

TEST FENCE 2 058-0000 SOIL 2017 SIGN TRUSS 7S058U036L031.0.GPJ D6TEMPLT.GDT 10/24/17

TEST FENCE 2 058-0000 SOIL 2017 SIGN TRUSS 7S058U036L031.0.GPJ D6TEMPLT.GDT 10/24/17

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USER NAME = steffemk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/15/2018	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BORING LOGS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	63
ILLINOIS			CONTRACT NO. 46499	



SOIL BORING LOG

Date 8/1/17

ROUTE I-72 WB DESCRIPTION Sign Truss Foundation LOGGED BY E. Sandschafer

SECTION N/A LOCATION W 1/2, SEC. 13, TWP. 16 N, RNG. 1 E, 3 PM

COUNTY Macon DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 7S0581072L133.8 Station 297+85 BORING NO. 1 (West) Station 297+82 Offset 38.0ft Rt (West) Ground Surface Elev. 97.75 ft

Table with columns for Depth (ft), Diameter (in), Soil Description, and SPT Values (Blows/6", tsf, %). Includes soil types like Clay Loam Till, Silty Loam, and Clay.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Date 7/28/17

ROUTE I-72 WB DESCRIPTION Sign Truss Foundation LOGGED BY E. Sandschafer

SECTION N/A LOCATION W 1/2, SEC. 13, TWP. 16 N, RNG. 1 E, 3 PM

COUNTY Macon DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 7S0581072L133.8 Station 297+85 BORING NO. 2 (Median) Station 297+71 Offset 59.0ft Lt (East) Ground Surface Elev. 97.7 ft

Table with columns for Depth (ft), Diameter (in), Soil Description, and SPT Values (Blows/6", tsf, %). Includes soil types like Clay Loam Till, Silty Loam, and Clay.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

File Name: S:\NEW GEOTECHNICAL\GINTDATA\PROJECTS\MACON CO (058)\058-0000 SOIL 2017 SIGN TRUSS 7S0581072L133.8.GPJ Date Template 06TEMP1.GDT Date Printed 10/24/17

File Name: S:\NEW GEOTECHNICAL\GINTDATA\PROJECTS\MACON CO (058)\058-0000 SOIL 2017 SIGN TRUSS 7S0581072L133.8.GPJ Date Template 06TEMP1.GDT Date Printed 10/24/17

Table with columns for USER NAME, DESIGNED, REVISIONS, DRAWN, CHECKED, PLOT SCALE, PLOT DATE, DATE.

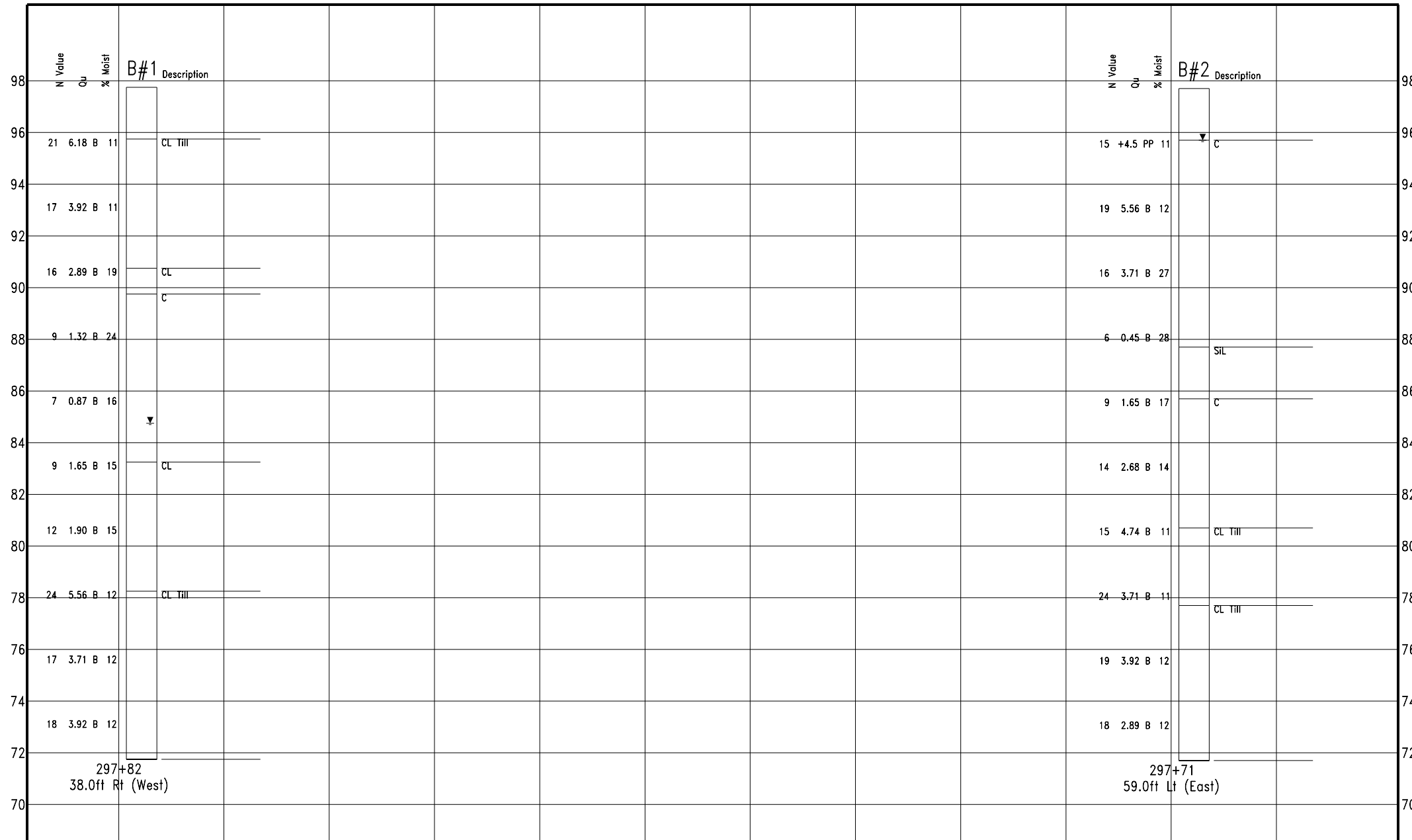
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

Table with columns for BORING LOGS, SCALE, SHEET OF SHEETS, STA., TO STA.

Table with columns for F.A. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., CONTRACT NO.



Structure Number 7S0581072L133.8 Sign Truss Foundation  
 Located in the W 1/2 of Section 13, Township 16 N, Range 1 E of the 3 P.M.



TEST FENCE 2 058-0000 SOIL 2017 SIGN TRUSS 7S0581072L133.8.GPJ D6TEMP.LT.GDT 10/24/17

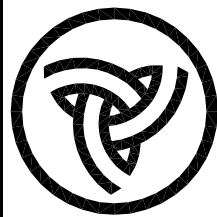
TEST FENCE 2 058-0000 SOIL 2017 SIGN TRUSS 7S0581072L133.8.GPJ D6TEMP.LT.GDT 10/24/17

NOT TO HORIZONTAL SCALE

VARIATIONS IN SUBSURFACE  
 CONDITIONS MAY EXIST  
 BETWEEN BORINGS

SUBSURFACE DATA PROFILE

Route: I-72 WB  
 Section: N/A  
 County: Macon



Illinois Department  
 of Transportation  
 Division of Highways  
 IDOT

Groundwater  
 First Encounter  
 Completion  
 after (refer to log) hours

Abbreviations  
 WOH - Sampler Advanced by Weight  
 of Hammer, WOP - Weight of Pipe  
 B.S. - Before Sealing

MODEL: Default  
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USER NAME = steffenmk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/15/2018	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BORING LOGS				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	65
			CONTRACT NO. 46499	
ILLINOIS				



# SOIL BORING LOG

ROUTE US 36 WB DESCRIPTION Cantilever Sign Foundation LOGGED BY E. Sandschafer

SECTION N/A LOCATION W 1/2, SEC. 13, TWP. 16 N, RNG. 1 E, 3 PM

COUNTY Macon DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 7C058U036L030.5  
Station 384+90

BORING NO. 1  
Station 384+88  
Offset 42.0ft Lt (North)  
Ground Surface Elev. 97.77 ft

D E P T H S (ft)	B L O W S (/6")	U C S (tst)	M O I S T (%)	Surface Water Elev. <u>N/A</u> ft	Stream Bed Elev. <u>N/A</u> ft	D E P T H S (ft)	B L O W S (/6")	U C S (tst)	M O I S T (%)
				▽ First Encounter <u>Dry</u> ft					
				▽ Upon Completion <u>Dry</u> ft					
				▽ After <u>24</u> Hrs. <u>Dry</u> ft					
Skipped.				Stiff, damp, gray, CLAY.			4	1.40	20
					76.87		50/5"		
				Auger refusal. Possible old roadway or boulder.					
95.77									
	2								
	3	0.74	13						
	3	B							
93.27				Benchmark: TBM centerline WB US 36 lanes, Sta 384+88 = assumed 100.00'					
	3								
	4	1.24	23						
	5	B							
90.77				Note offset given from Centerline of WB US 36 lanes, not Centerline of survey.					
	6								
	8	7.01	10						
	7	B							
88.27									
	4								
	6	3.09	12						
	8	B							
85.77									
	5								
	7	1.24	12						
	10	B							
	5								
	6	2.27	13						
	7	B							
	4								
	4	1.32	12						
	6	B							
	3								
77.77	-20								

File Name: S:\NEW GEOTECHNICAL\GINTDATA\PROJECTS\MACON CO (058)\058-0000 SOIL 2017 CANTILEVER 7C058U036L030.5.GPJ Data Template D6TEWPL1.DOT Date Printed 10/24/17  
Latitude 39 deg 02 min 48.963 sec Longitude 89 deg 30 min 17.968 sec Datum Job Number

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)  
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

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PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/15/2018	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	66
			CONTRACT NO. 46499	
ILLINOIS				



SOIL BORING LOG

Date 8/14/17

ROUTE US 36 EB DESCRIPTION Sign Truss Foundation LOGGED BY E. Sandschafer

SECTION N/A LOCATION E 1/2, SEC. 14, TWP. 16 N, RNG. 1 E, 3 PM

COUNTY Macon DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

Table with columns for STRUCT. NO., BORING NO., Station, Offset, Ground Surface Elev., and soil properties (D, B, U, M, P, L, C, O, T, W, S, H, S, Qu, T).

Main soil log table with columns for depth (ft), soil description, and blow counts (D, B, U, M, P, L, C, O, T, W, S, H, S, Qu, T).

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Date 8/14/17

ROUTE US 36 EB DESCRIPTION Sign Truss Foundation LOGGED BY E. Sandschafer

SECTION N/A LOCATION E 1/2, SEC. 14, TWP. 16 N, RNG. 1 E, 3 PM

COUNTY Macon DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

Table with columns for STRUCT. NO., BORING NO., Station, Offset, Ground Surface Elev., and soil properties (D, B, U, M, P, L, C, O, T, W, S, H, S, Qu, T).

Main soil log table with columns for depth (ft), soil description, and blow counts (D, B, U, M, P, L, C, O, T, W, S, H, S, Qu, T).

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

File Name: S:\NEW GEOTECHNICAL\GINTDATA\PROJECTS\MACON CO (058)\058-0000 SOIL 2017 SIGN TRUSS 75058U036R030.2.GPJ Data Template DEEMPLT.GDT Date Printed 10/24/17

File Name: S:\NEW GEOTECHNICAL\GINTDATA\PROJECTS\MACON CO (058)\058-0000 SOIL 2017 SIGN TRUSS 75058U036R030.2.GPJ Data Template DEEMPLT.GDT Date Printed 10/24/17

Table with columns for USER NAME, DESIGNED, DRAWN, PLOT SCALE, PLOT DATE, REVISED, CHECKED, DATE.

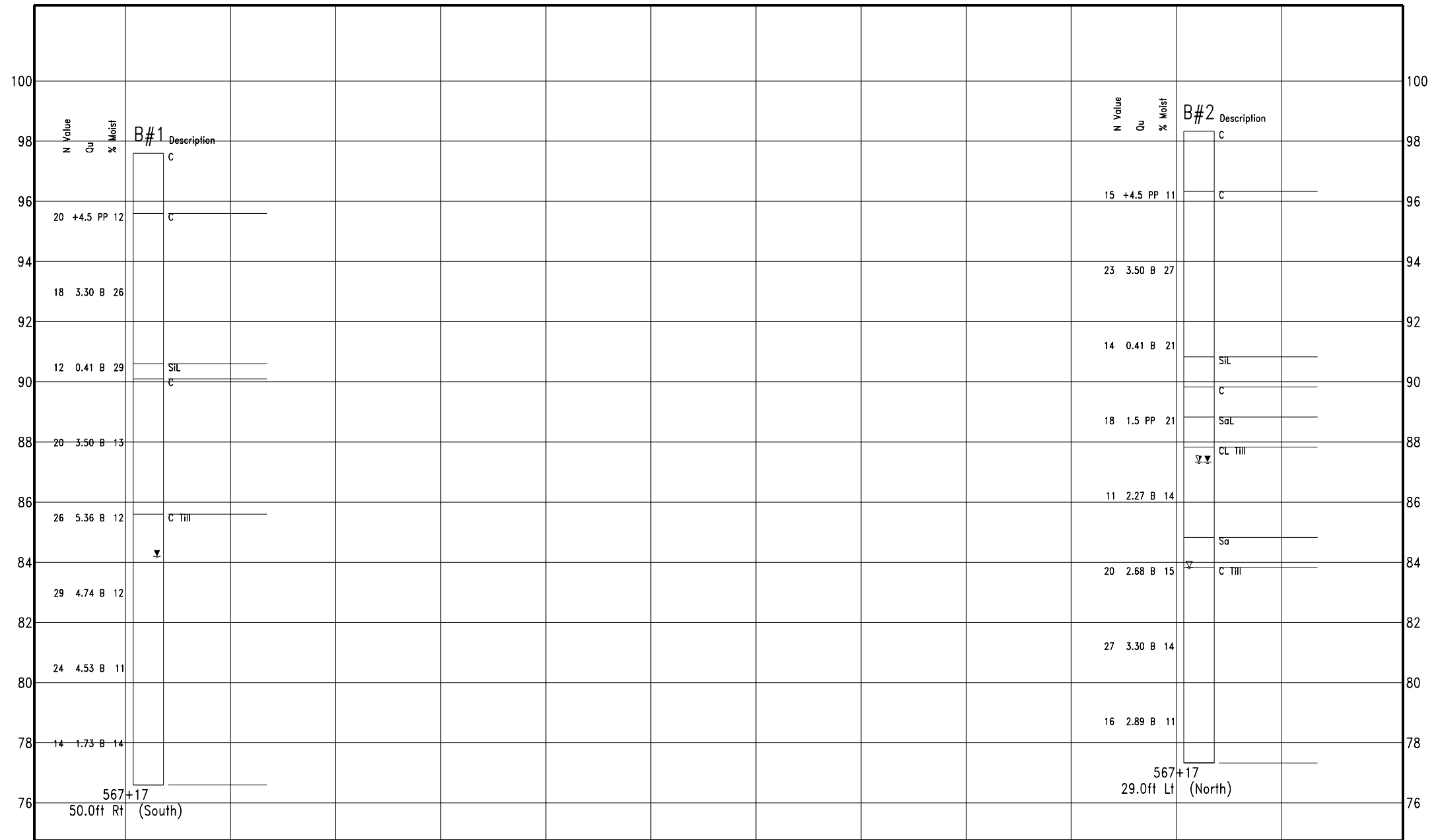
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

Table with columns for BORING LOGS, SCALE, SHEET OF SHEETS, STA., TO STA.

Table with columns for F.A. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., CONTRACT NO.

Structure Number 7S058U036R030.2 Sign Truss Foundation  
 Located in the E 1/2 of Section 14, Township 16 N, Range 1 E of the 3 P.M.

TEST FENCE 2 058-0000 SOIL 2017 SIGN TRUSS 7S058U036R030.2.GPJ D6TEMPLT.GDT 10/24/17



NOT TO HORIZONTAL SCALE

VARIATIONS IN SUBSURFACE  
 CONDITIONS MAY EXIST  
 BETWEEN BORINGS

SUBSURFACE DATA PROFILE

Route: US 36 EB  
 Section: N/A  
 County: Macon

Groundwater  
 First Encounter  
 Completion  
 after (refer to log) hours

Abbreviations  
 WOH - Sampler Advanced by Weight  
 of Hammer, WOP - Weight of Pipe  
 B.S. - Before Seating

TEST FENCE 2 058-0000 SOIL 2017 SIGN TRUSS 7S058U036R030.2.GPJ D6TEMPLT.GDT 10/24/17

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USER NAME = steffenmk	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/15/2018	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BORING LOGS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	68
			CONTRACT NO. 46499	



SOIL BORING LOG

ROUTE US 51 SB DESCRIPTION Sign Truss Foundation LOGGED BY E. Sandschafer

SECTION N/A LOCATION W 1/2, SEC. 13, TWP. 16 N, RNG. 1 E, 3 PM

COUNTY Macon DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

Table with columns for STRUCT. NO., BORING NO., Station, Offset, Ground Surface Elev., and soil properties (D, B, U, M, P, L, C, O, T, W, S, H, S, Qu, T).

Main soil log table with columns for depth (ft), soil description, and blow count data (D, B, U, M, P, L, C, O, T, W, S, H, S, Qu, T).

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating



SOIL BORING LOG

ROUTE US 51 SB DESCRIPTION Sign Truss Foundation LOGGED BY E. Sandschafer

SECTION N/A LOCATION W 1/2, SEC. 13, TWP. 16 N, RNG. 1 E, 3 PM

COUNTY Macon DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

Table with columns for STRUCT. NO., BORING NO., Station, Offset, Ground Surface Elev., and soil properties (D, B, U, M, P, L, C, O, T, W, S, H, S, Qu, T).

Main soil log table with columns for depth (ft), soil description, and blow count data (D, B, U, M, P, L, C, O, T, W, S, H, S, Qu, T).

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating

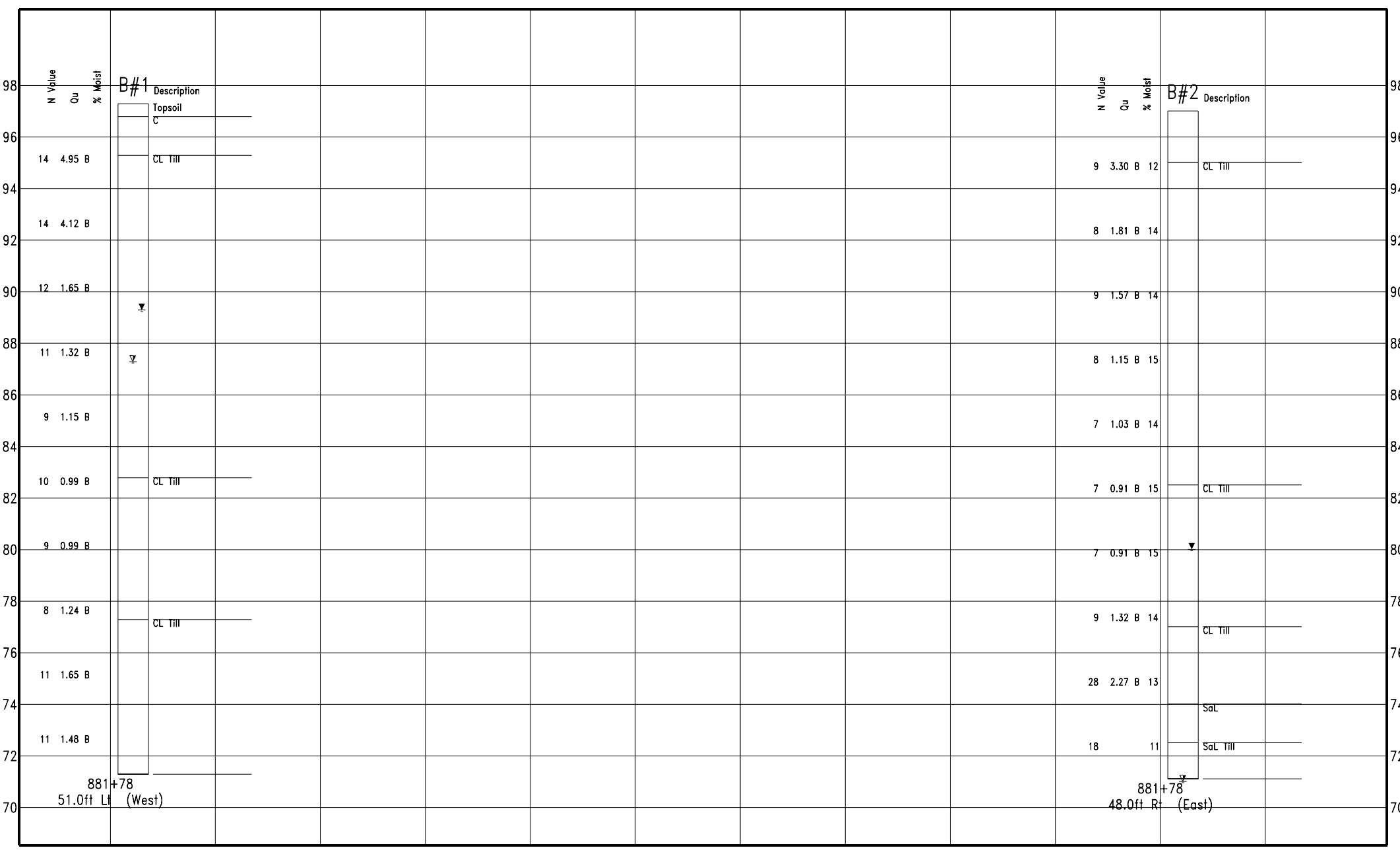
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File Name: S:\NEW GEOTECHNICAL\GINTDATA\PROJECTS\MACON CO (058)\058-0000 SOIL 2017 SIGN TRUSS 75058U051L010.65.GPJ Data Template 06TEMP1.GDT Date Printed 10/24/17

Structure Number 7S058U051L010.65 Sign Truss Foundation  
 Located in the W 1/2 of Section 13, Township 16 N, Range 1 E of the 3 P.M.

TEST FENCE 2 058-0000 SOIL 2017 SIGN TRUSS 7S058U051L010.65.GPJ D6TEMPLT.GDT 10/24/17

TEST FENCE 2 058-0000 SOIL 2017 SIGN TRUSS 7S058U051L010.65.GPJ D6TEMPLT.GDT 10/24/17

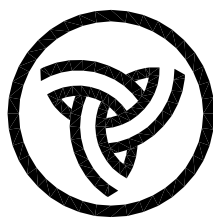


NOT TO HORIZONTAL SCALE

VARIATIONS IN SUBSURFACE  
 CONDITIONS MAY EXIST  
 BETWEEN BORINGS

SUBSURFACE DATA PROFILE

Route: US 51 SB  
 Section: N/A  
 County: Macon



Illinois Department of Transportation  
 Division of Highways  
 IDOT

Groundwater  
 ▽ First Encounter  
 ▽ Completion  
 ▽ after (refer to log) hours

Abbreviations  
 WOH - Sampler Advanced by Weight of Hammer, WOP - Weight of Pipe  
 B.S. - Before Sealing

MODEL: Default  
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USER NAME = steffenmk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/15/2018	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BORING LOGS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	70
			CONTRACT NO. 46499	
ILLINOIS				



Illinois Department  
of Transportation  
Division of Highways  
IDOT

# SOIL BORING LOG

ROUTE US 51 NB DESCRIPTION Cantilever Sign Foundation LOGGED BY E. Sandschafer

SECTION N/A LOCATION W 1/2, SEC. 13, TWP. 16 N, RNG. 1 E, 3 PM

COUNTY Macon DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 7C058U051R010.98  
Station 776+90

BORING NO. 1  
Station 776+85  
Offset 41.0ft Rt (East)  
Ground Surface Elev. 96.92 ft

D E P T H (ft)	B L O W S (/6" (ft))	U L C S Qu (tst)	M O I S T U R (%)	Notes	D E P T H (ft)	B L O W S (/6" (ft))	U L C S Qu (tst)	M O I S T U R (%)
-	-	-	-	Surface Water Elev. <u>N/A</u> ft	-	-	-	-
-	-	-	-	Stream Bed Elev. <u>N/A</u> ft	-	-	-	-
-	-	-	-	Groundwater Elev.:	-	-	-	-
-	-	-	-	▽ First Encounter <u>Dry</u> ft	-	-	-	-
-	-	-	-	▽ Upon Completion <u>Dry</u> ft	-	-	-	-
-	-	-	-	▽ After <u>24</u> Hrs. <u>65.9</u> ft	-	-	-	-
-	-	-	-	Skipped.	4	2.06	12	-
-	-	-	-	Stiff, damp, gray, CLAY LOAM TILL. (continued)	7	B	-	-
94.92	-	-	-		3	-	-	-
-	9	-	-	Very hard, damp, gray, CLAY.	5	3.71	12	-
-	13	10.91	11		7	B	-	-
-	15	B	-	Gray, SANDY LOAM w/ small Gravel.	5	-	-	-
92.42	-	-	-		7	-	-	-
-	7	-	-	Hard, damp, gray, CLAY LOAM TILL.	5	-	-	-
-	7	4.12	10	Stiff to medium, damp, gray, CLAY LOAM TILL.	4	1.24	10	-
-	9	B	-		5	B	-	-
-	4	-	-		2	-	-	-
-	6	3.30	11		3	0.99	13	-
-	8	B	-		4	B	-	-
-	4	-	-		2	-	-	-
-10	4	-	-		3	-	-	-
-	4	1.65	12		3	1.03	15	-
-	6	B	-		4	B	-	-
-	3	-	-		2	-	-	-
-	3	1.24	12		2	-	-	-
-	5	B	-		-35	-	-	-
-15	5	-	-		3	0.82	14	-
81.42	13	2.89	11	Gray, very damp, SANDY LOAM.	4	B	-	-
-	15	B	-		-	-	-	-
79.92	-	-	-		3	-	-	-
-	3	-	-	Stiff, damp, gray, CLAY LOAM TILL.	4	1.73	13	-
-	4	B	-		5	B	-	-
-	3	-	-		-	-	-	-
-20	3	-	-		3	-	-	-
56.92	-40	-	-		-	-	-	-

File Name: S:\NEW GEOTECHNICAL\GINTDATA\PROJECTS\MACON CO (058)\058-0000 SOIL 2017 CANTILEVER 7C058U051R010.98.GPJ Data Template DETEMPLT.GDT Date Printed 10/24/17  
 Latitude N 89 deg 02 min 41.431 sec Longitude W 89 deg 30 min 14.833 sec Datum Job Number

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)  
 Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating  
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

MODEL: Default  
 FILE NAME: P:\CADD\BIDDING\IDOT Documents\IDOT Office\IDOT\Documents\IDOT Office\IDOT\IDOT\Projects\6499\CADDData\CAD\BBS\ID716424-4-17-Soil\log.bbs.dgn

USER NAME = steffenmk	DESIGNED -	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/15/2018	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BORING LOGS	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	71
CONTRACT NO. 46499			ILLINOIS	



# SOIL BORING LOG

Date 10/11/17

ROUTE US 51 SB DESCRIPTION Cantilever Sign Foundation LOGGED BY E. Sandschafer

SECTION N/A LOCATION SE, SEC. 22, TWP. 17 N, RNG. 2 E, 3 PM

COUNTY Macon DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 7C058U051L009.8  
Station 1170+10

BORING NO. 1  
Station 1169+93  
Offset 27.0ft Lt (West)  
Ground Surface Elev. 99.38 ft

D E P T H S H	B L O W S	U C S Qu	M O I S T T	Surface Water Elev.	D E P T H S H	B L O W S	U C S Qu	M O I S T T
(ft)	/6"	(tsf)	(%)	ft	(ft)	/6"	(tsf)	(%)
				N/A	10	6.39	10	
				N/A	19	B		
	6	6.59	12		4			
	9	B			7	3.09	13	
				75.88	13	B		
	5				10			
	-5				-25			
	6	3.30	13		12		13	
	9	B			13			
	5				8			
	7	2.68	13		10		20	
	10	BS			13			
				69.88				
	5				2			
	-10				-30			
	10	6.59	13		5	1.98	13	
	12	B			6	B		
	5							
	8	4.33	13					
	12	B						
				64.88				
	10				-35	6		
	-15							
	13	5.98	12		11		18	
	19	B			12			
	7							
	15	8.45	9					
	15	B						
				59.88				
	15				-40	6		
	79.38	-20						

9" asphalt shoulder, very poor condition. 98.58  
6" crushed stone subbase. 98.08  
Very stiff to hard, damp, brown/gray, CLAY LOAM TILL.

Hard, damp, gray, CLAY LOAM TILL.

Medium, wet, gray, fine grained, SAND.

No recovery.

With Gravel. 9% passing #200 sieve.

Stiff, damp, gray, CLAY LOAM TILL.

Medium, wet, gray, fine grained, SAND. 6% passing #200 sieve.

Medium, wet, gray, fine grained, SAND. 6% passing #200 sieve.

Medium, wet, gray, fine grained, SAND. 6% passing #200 sieve.

Medium, wet, gray, fine grained, SAND. 6% passing #200 sieve.

Medium, wet, gray, fine grained, SAND. 6% passing #200 sieve.

File Name: S:\NEW GEOTECHNICAL\GINT\DATA PROJECTS\MACON CO (058)\058-000 SOIL 2017 CANTILEVER 7C058U051L009.8.GPJ Data Template DETEMPLOT.DOT Date Printed 10/23/17  
Latitude N 38.555570 deg Longitude W 99.372431 deg Datum Job Number

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)  
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

USER NAME = stefenmk	DESIGNED -	REVISOR -
	DRAWN -	REVISION -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISION -
PLOT DATE = 3/15/2018	DATE -	REVISION -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BORING LOGS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	72
CONTRACT NO. 46499				
SCALE:	SHEET	OF SHEETS	STA.	TO STA.
				ILLINOIS





# SOIL BORING LOG

ROUTE I 72 WB DESCRIPTION Cantilever Sign Foundation - WB Rest Area LOGGED BY E. Sandschafer

SECTION N/A LOCATION E 1/2, SEC. 30, TWP. 18 N, RNG. 4 E, 3 PM

COUNTY Macon DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 7C0581072L152.9  
Station 772+88

BORING NO. 1  
Station 772+88  
Offset 58.0ft Lt (West)  
Ground Surface Elev. 97.58 ft

DEPTH (ft)	DIAMETER (in)	SOIL TYPE	TEST TYPE	DEPTH (ft)	DIAMETER (in)	SOIL TYPE	TEST TYPE
		Surface Water Elev.	N/A			Surface Water Elev.	N/A
		Stream Bed Elev.	N/A			Stream Bed Elev.	N/A
		Groundwater Elev.:				Groundwater Elev.:	
		▼ First Encounter	80.1			▼ First Encounter	80.1
		▼ Upon Completion	Dry			▼ Upon Completion	Dry
		▼ After 24 Hrs.	80.1			▼ After 24 Hrs.	80.1
95.58	6	Hard, damp, brown to gray, CLAY LOAM TILL. (continued)		9	4.33	13	
	12			15	BS		
	16			8			
	7			16	6.80	11	
	6			23	B		
	9			9			
	4			-25			
	9			14	7.62	11	
	5			17	B		
	8			71.58			
	11						
	5						
	8						
	10						
	5						
	8						
	10						
	5						
	7						
	9						
	3						
	3						
	4						
	3						
	4						
	4						
	6						

Skipped.

Hard to very stiff, damp, brown/gray, CLAY LOAM TILL.

Hard, damp, brown to gray, CLAY LOAM TILL. (continued)

Extent of exploration.

Benchmark: TBM centerline of I-72 WB Sta 772+88 = assumed 100.00'

Note: Offset given from Centerline of WB I-72 lanes, not Centerline of survey.

Very stiff, damp, gray, CLAY.

Stiff, damp, gray, SILTY CLAY LOAM.

Medium, damp, brown, CLAY LOAM.

Brown, SAND.

Brown, CLAY LOAM.

File Name: S:\NEW GEOTECHNICAL\GINTDATA\PROJECTS\MACON CO (058)\058-0000 SOIL 2017 CANTILEVER 7C0581072L152.9.GPJ Data Template D6TEMP1.DOT Date Printed 10/24/17  
Latitude 38 deg 47 min 03.777 sec Longitude 93 deg 09 min 23.951 sec Datum Job Number

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)  
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

MODEL: Default  
FILE NAME: P:\ILLINOIS\BIDDING\TEC\Illinois.gov\RID\DOT\Documents\1\DOT Office\IDirect\7\Projects\16499\CaddData\CaddSheet\16424-1-16-17\borlog.dgn

USER NAME = steffenmk	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/15/2018	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BORING LOGS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	73
			CONTRACT NO. 46499	
ILLINOIS				



# SOIL BORING LOG

Date 8/16/17

ROUTE I 72 EB DESCRIPTION Cantilever Sign Foundation - EB Rest Area LOGGED BY E. Sandschafer

SECTION N/A LOCATION E 1/2, SEC. 30, TWP. 18 N, RNG. 4 E, 3 PM

COUNTY Macon DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 7C0581072R152.77  
Station 767+10

BORING NO. 1  
Station 767+40  
Offset 58.0ft Rt (East)  
Ground Surface Elev. 96.88 ft

D E P T H  H  S	B L O W S  Qu	U C S  Qu	M O I S T  T	Surface Water Elev. N/A ft	Stream Bed Elev. N/A ft	Groundwater Elev.:	D E P T H  H  S	B L O W S  Qu	U C S  Qu	M O I S T  T								
											▼ First Encounter	▼ Upon Completion	▼ After 24 Hrs.	(ft)	/6"	(tsf)	(%)	
Skipped.				Stiff, damp, brown, CLAY TILL.				9	1.98	14								
				94.88	74.88		10	B										
Very stiff, damp, brown/gray, CLAY LOAM TILL, embankment.				Stiff to very stiff, damp, brown to gray, CLAY.				9										
	6						14	1.90	15									
	8	4.74	11				12	B										
	10	BS					8											
							-5											
	8						12	3.50	12									
	12	B					12	B										
							70.88											
Extent of exploration.																		
	9																	
	14	2.68	11				14	B										
				Benchmark: TBM centerline of I-72 EB Sta 767+40 = assumed 100.00'														
	14	B																
							-10											
	20	5.98	10				14	B										
	15	B					20											
							-30											
	9						15											
	14	2.89	11				15	B										
	15	B																
							82.38											
Very stiff, damp, brown, CLAY LOAM TILL. 50% recovery, rock in sampler shoe.																		
	8						-15											
	14	4.0	13				14	4.0	13									
	16	PP					16	PP										
	5						9											
	9	2.84	15				11	B										
	11	B																
							76.88											
	5						-20											

File Name: S:\NEW GEOTECHNICAL\GINTDATA\PROJECTS\MACON CO (058)\058-0000 SOIL 2017 CANTILEVER 750581072R152.77.GPJ Data Template D0TEMPLT.GDT Date Printed 10/24/17  
 Latitude 38 deg 47 min 06.191 sec Longitude 93 deg 09 min 23.371 sec Datum Job Number

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)  
 Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating  
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Date 10/13/17

ROUTE I-72 EB DESCRIPTION Sign Truss Foundation LOGGED BY E. Sandschafer

SECTION N/A LOCATION SE, SEC. 22, TWP. 2 E, RNG. 17 N, 3 PM

COUNTY Macon DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 7S0581072R140.8 Station 137+88 BORING NO. 1 (Median) Station 138+09 Offset 21.0ft Lt (North) Ground Surface Elev. 100.07 ft

Table with columns for Depth (ft), Diameter (in), Soil Description, and SPT values (N, B, U, M). Includes soil descriptions like 'Medium, wet, gray, fine grained, SAND with some Gravel' and 'Stiff, damp, gray, CLAY LOAM'.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Date 10/13/17

ROUTE I-72 EB DESCRIPTION Sign Truss Foundation LOGGED BY E. Sandschafer

SECTION N/A LOCATION SE, SEC. 22, TWP. 2 E, RNG. 17 N, 3 PM

COUNTY Macon DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 7S0581072R140.8 Station 137+88 BORING NO. 2 (South) Station 138+09 Offset 33.0ft Rt (South) Ground Surface Elev. 100.24 ft

Table with columns for Depth (ft), Diameter (in), Soil Description, and SPT values (N, B, U, M). Includes soil descriptions like '15.5" asphalt shoulder on 8" crushed stone subbase' and 'Medium, wet, gray, fine grained, SAND w/ some Gravel'.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

File Name: S:\NEW GEOTECHNICAL\GINT\DATA\PROJECTS\MACON CO (058)\058-0000 SOIL 2017 SIGN TRUSS 7S0581072R140.8.GPJ Data Template 06TEMP1.GDT Date Printed 10/24/17

File Name: S:\NEW GEOTECHNICAL\GINT\DATA\PROJECTS\MACON CO (058)\058-0000 SOIL 2017 SIGN TRUSS 7S0581072R140.8.GPJ Data Template 06TEMP1.GDT Date Printed 10/24/17

Table with columns for USER NAME, DESIGNED, DRAWN, CHECKED, DATE, REVISED, and PLOT SCALE.

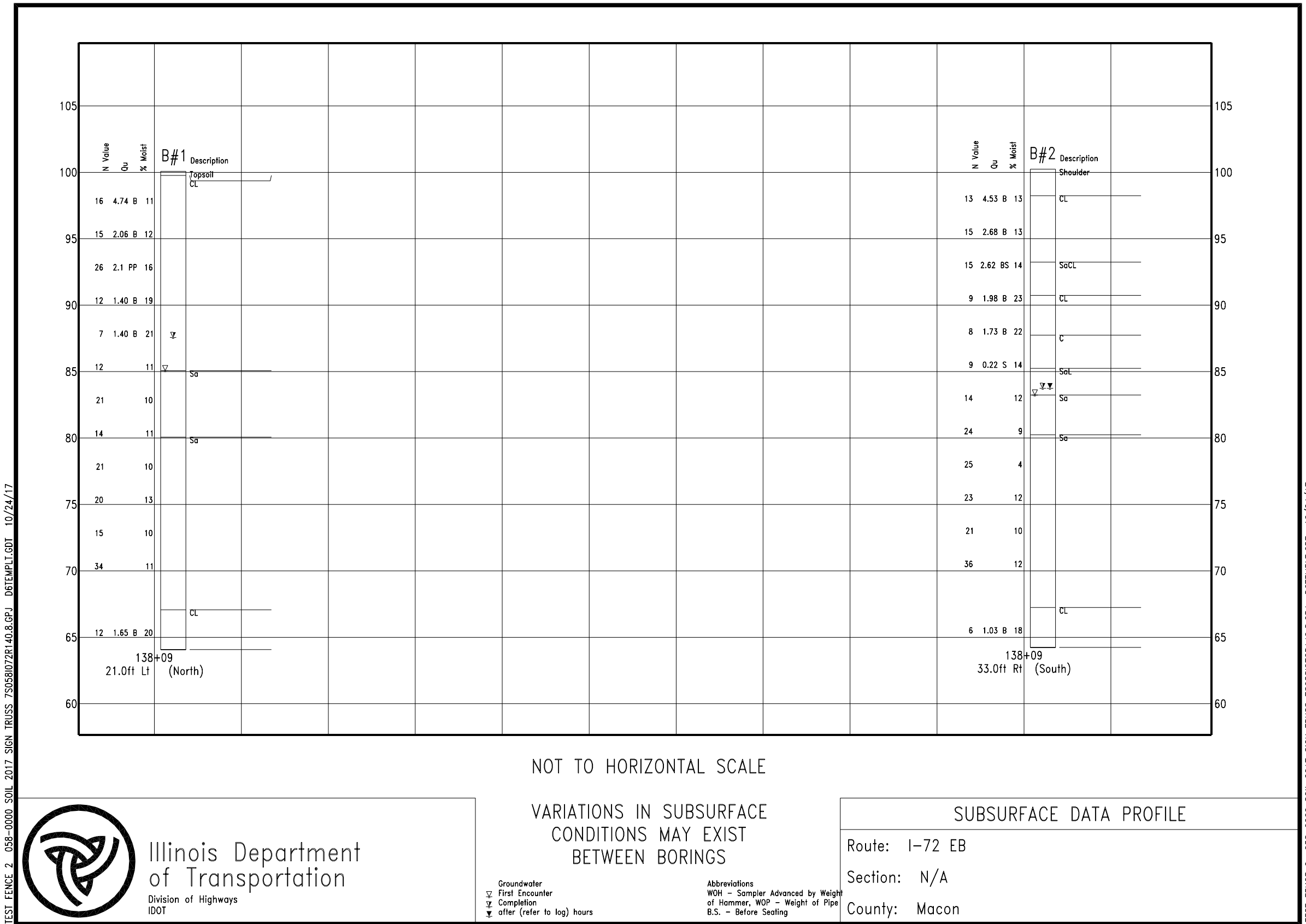
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

BORING LOGS

SCALE: SHEET OF SHEETS STA. TO STA.

Table with columns for F.A. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., and CONTRACT NO.

Structure Number 7S0581072R140.8 Sign Truss Foundation  
 Located in the SE of Section 22, Township 2 E, Range 17 N of the 3 P.M.



Groundwater  
 ▽ First Encounter  
 ▽ Completion  
 ▽ after (refer to log) hours

Abbreviations  
 WOH - Sampler Advanced by Weight of Hammer, WOP - Weight of Pipe  
 B.S. - Before Sealing

Route: I-72 EB  
 Section: N/A  
 County: Macon

MODEL: Default  
FILE: \\nas010\B&E\BID\NTEC\Illinois\pov\RW\DOT\Documents\1\DOT\_Offices\IDOT\7\Projects\1699\CADD\DATA\CADD\Sheet\1699\1699-1699-1699.dgn

TEST FENCE 2 058-0000 SOIL 2017 SIGN TRUSS 7S0581072R140.8.GPJ D6TEMPLT.GDT 10/24/17

USER NAME = steffenmk	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/15/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

BORING LOGS				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	76
ILLINOIS			CONTRACT NO. 46499	



# SOIL BORING LOG

ROUTE Busn US 51 NB DESCRIPTION Cantilever Sign Foundation LOGGED BY E. Sandschafer

SECTION N/A LOCATION NW, SEC. 26, TWP. 17 N, RNG. 2 E, 3 PM

COUNTY Macon DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 7C058B051R000.41  
Station 1139+95

BORING NO. 1  
Station 1140+02  
Offset 29.0ft Rt (East)  
Ground Surface Elev. 99.27 ft

D E P T H (ft) /6" (tsf) (%)

U C S Qu (tsf) (%)

M O I S T U R E (%)

Surface Water Elev. N/A ft  
Stream Bed Elev. N/A ft  
Groundwater Elev.:  
▽ First Encounter 81.2 ft  
▽ Upon Completion 74.3 ft  
▽ After 144 Hrs. Dry ft

Soil Description	Elev. (ft)	Depth (ft)	U (tsf)	C (tsf)	S (%)	Qu (tsf)	M (%)	Moisture (%)	Soil Description	Elev. (ft)	Depth (ft)	U (tsf)	C (tsf)	S (%)	Qu (tsf)	M (%)	Moisture (%)
12" asphalt shoulder.	98.27								Very stiff, damp, gray, CLAY LOAM TILL. (continued)	9	3.09	12					
6" crushed stone subbase.	97.77									11	B						
Very stiff, damp, gray, CLAY TILL.		2								6							
		4	2.68			14				7	1.321	13					
		5	B							8	B						
	94.77																
Very stiff, damp, brown, SANDY CLAY.		5								4							
		-5								-25							
		6	3.49			11				6	1.90	12					
		8	BS							9	B						
		4								3							
		7	2.40			11				5	2.06	13					
		11	BS							7	B						
	89.77																
Medium, very moist, brown, fine grained, SAND. 12% passing #200 sieve.		-10				6				-30							
		9				6				20	5.56	13					
		11								32	B						
		7															
14% passing #200 sieve.		12				7											
	85.97																
Hard, damp, brown, SANDY CLAY TILL.		12															
		-15								-35							
		7								14							
		11	4.95			11				22		13					
		12	B							32							
	82.27																
Hard, damp, brown, CLAY TILL.		8															
1" sand lense at 18.1' depth. ▽		16	9.27			11											
		17	B														
	79.77									59.77							
		-20								-40							

File Name: S:\NEW GEOTECHNICAL\GINT\DATA\PROJECTS\MACON CO (058)\058-000 SOIL 2017 CANTILEVER 7C058B051R000.41.GPJ Data Template D6TEMP1.GDT Date Printed 10/24/17  
 Latitude N 39.504239 deg Longitude W 89.51122 deg  
 Job Number  
 MODEL: Default  
 FILE NAME: S:\ILLINOIS\BIDDING\TEC\Illinois\gov\RID\DOT\Documents\1\DOT - Office\16499\CADD\Drawings\16424-1-17\soilborlog.dgn

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)  
 Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating  
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Date 10/12/17

ROUTE Busn US 51 SB DESCRIPTION Monotube Sign Foundation LOGGED BY E. Sandschafer

SECTION N/A LOCATION SE, SEC. 34, TWP. 17 N, RNG. 2 E, 3 PM

COUNTY Macon DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 7M058B051R002.18 Station 374+00 BORING NO. 1 (East) Station 374+05 Offset 28.0ft East Ground Surface Elev. 100.34 ft

Table with columns: D E P T H, B L O W S, U C S, M O I S T, Surface Water Elev., Stream Bed Elev., Groundwater Elev., First Encounter, Upon Completion, After 120 Hrs.

Main soil log table with columns: Depth (ft), Soil Description, UCS (tsf), Moisture (%), etc. Includes entries for 5.5" topsoil, Brown, CLAY LOAM, Stiff, damp, brown, CLAY, Medium to hard, damp, brown, CLAY LOAM, etc.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

File Name: S:\NEW GEOTECHNICAL\GINTDATA\PROJECTS\MACON CO (058)\058-0000 SOIL 2017 MONOTUBE 7M058B051R002.18.GPJ Data Template DEEMPLT.GDT Date Printed 10/23/17



SOIL BORING LOG

Date 10/12/17

ROUTE Busn US 51 SB DESCRIPTION Monotube Sign Foundation LOGGED BY E. Sandschafer

SECTION N/A LOCATION SE, SEC. 34, TWP. 17 N, RNG. 2 E, 3 PM

COUNTY Macon DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 7M058B051R002.18 Station 374+00 BORING NO. 2 (West) Station 374+05 Offset 28.0ft West Ground Surface Elev. 100.07 ft

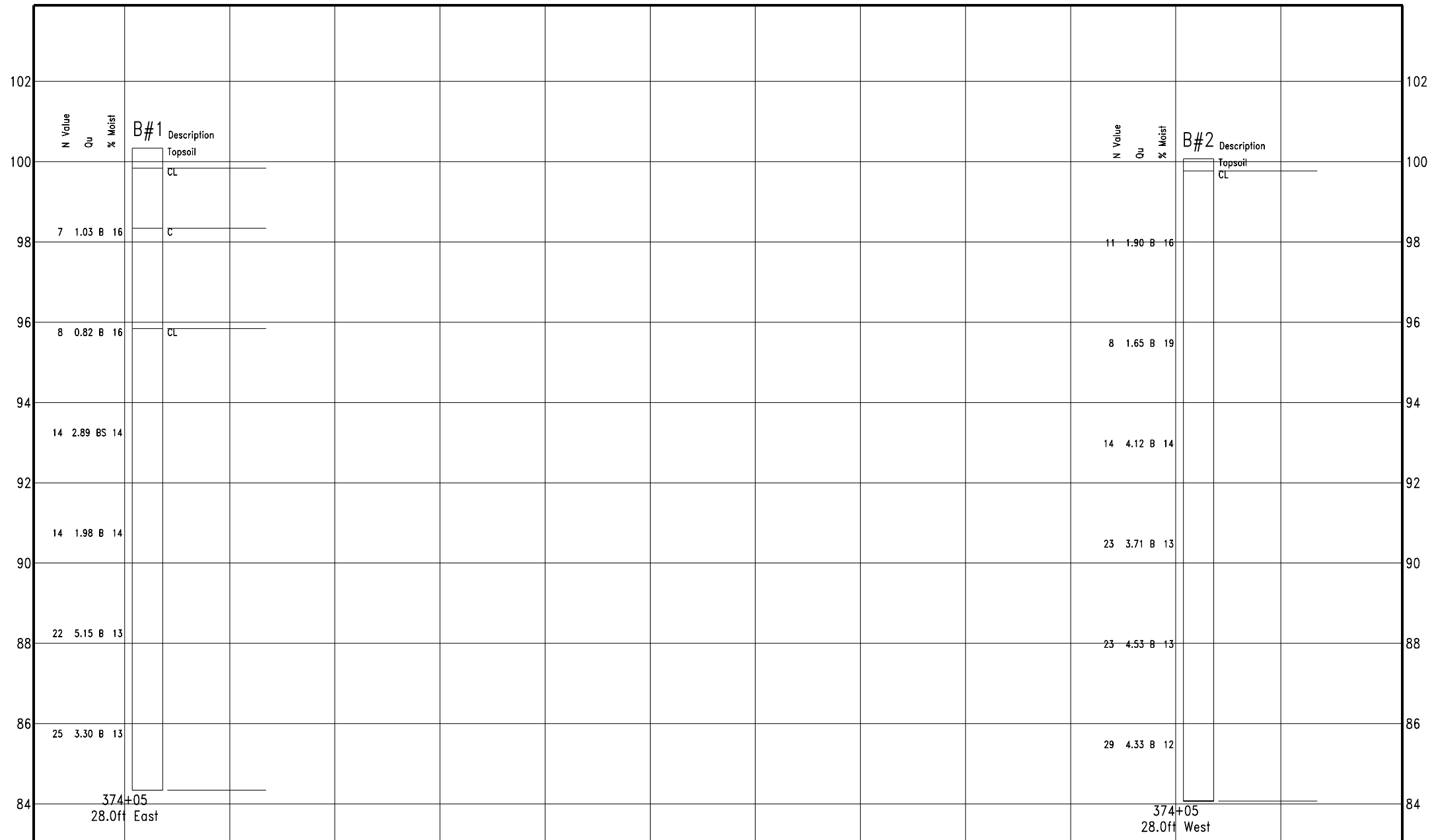
Table with columns: D E P T H, B L O W S, U C S, M O I S T, Surface Water Elev., Stream Bed Elev., Groundwater Elev., First Encounter, Upon Completion, After 120 Hrs.

Main soil log table with columns: Depth (ft), Soil Description, UCS (tsf), Moisture (%), etc. Includes entries for 4" topsoil, Stiff to hard, damp, brown, CLAY LOAM, etc.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

File Name: S:\NEW GEOTECHNICAL\GINTDATA\PROJECTS\MACON CO (058)\058-0000 SOIL 2017 MONOTUBE 7M058B051R002.18.GPJ Data Template DEEMPLT.GDT Date Printed 10/23/17

Structure Number 7M058B051R002.18 Monotube Sign Foundation  
 Located in the SE of Section 34, Township 17 N, Range 2 E of the 3 P.M.



NOT TO HORIZONTAL SCALE

VARIATIONS IN SUBSURFACE  
 CONDITIONS MAY EXIST  
 BETWEEN BORINGS

SUBSURFACE DATA PROFILE

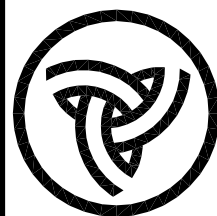
Route: Busn US 51 SB

Section: N/A

County: Macon

Groundwater  
 ▽ First Encounter  
 ▽ Completion  
 ▽ after (refer to log) hours

Abbreviations  
 WOH - Sampler Advanced by Weight of Hammer, WOP - Weight of Pipe  
 B.S. - Before Seating



Illinois Department  
 of Transportation  
 Division of Highways  
 IDOT

TEST FENCE 2 058-0000 SOIL 2017 MONOTUBE 7M058B051R002.18.GPJ D6TEMPLT.GDT 10/23/17

TEST FENCE 2 058-0000 SOIL 2017 MONOTUBE 7M058B051R002.18.GPJ D6TEMPLT.GDT 10/23/17

MODEL: Default  
 FILE NAME: P:\U08\B051R002\Documents\DOT\_Offices\IDOT\7M058B051R002.18.GPJ

USER NAME = steffenmk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/15/2018	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BORING LOGS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	79
			CONTRACT NO. 46499	
ILLINOIS				



# SOIL BORING LOG

Date 10/12/17

ROUTE Busn US 51 NB DESCRIPTION Monotube Sign Foundation LOGGED BY E. Sandschafer

SECTION N/A LOCATION W 1/2, SEC. 23, TWP. 16 N, RNG. 2 E, 3 PM

COUNTY Macon DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 7M058B051L005.72  
 Station 660+69

BORING NO. 1 (West)  
 Station 660+75  
 Offset 18.0ft West  
 Ground Surface Elev. 100.03 ft

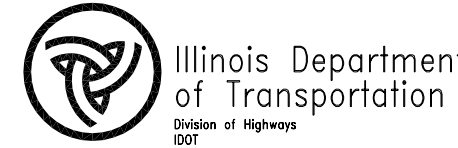
D E P T H S T	B L O W S	U C S Q u	M O I S T T	Surface Water Elev. <u>N/A</u> ft	D E P T H S T	B L O W S	U C S Q u	M O I S T T
				Stream Bed Elev. <u>N/A</u> ft				
				Groundwater Elev.:				
				▽ First Encounter <u>Dry</u> ft				
				▽ Upon Completion <u>Dry</u> ft				
				▽ After <u>120</u> Hrs. <u>Dry</u> ft				

Soil Description	Depth (ft)	Blows	UCS (tsf)	M	Moisture (%)
3" topsoil.	99.83				
Hard to medium, damp, brown/gray, CLAY LOAM.	5	4.83	10		
	6	B			
	7	B			
Very stiff, damp, brown/gray, CLAY LOAM.	4				
	6	0.74	15		
	8	B			
Medium, damp, brown, fine grained, SAND. 12% passing #200 sieve.	5				
	6	3.92	13		
	8	B			
Hard, damp, gray, CLAY LOAM.	5				
	6	1.81	15		
	9	B			
Extent of exploration.	6				
	10				
Benchmark: TBM Centerline of Busn US 51 NB lanes, Sta 660+69 = assumed 100.00'	11				
	15				
Extent of exploration.	3				
	4				
Benchmark: TBM Centerline of Busn US 51 NB lanes, Sta 660+69 = assumed 100.00'	3	4.12	15		
	4	B			

Location: Just North of structure carrying Busn US 51 NB / IL 105 EB over Lake Decatur, on the South side of Decatur.

Note: Offset given is from Centerline of Busn US 51 NB lanes, not Centerline of survey.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)  
 Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating  
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



# SOIL BORING LOG

Date 10/12/17

ROUTE Busn US 51 NB DESCRIPTION Monotube Sign Foundation LOGGED BY E. Sandschafer

SECTION N/A LOCATION W 1/2, SEC. 23, TWP. 16 N, RNG. 2 E, 3 PM

COUNTY Macon DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 7M058B051L005.72  
 Station 660+69

BORING NO. 2 (East)  
 Station 660+75  
 Offset 15.0ft East  
 Ground Surface Elev. 100.24 ft

D E P T H S T	B L O W S	U C S Q u	M O I S T T	Surface Water Elev. <u>N/A</u> ft	D E P T H S T	B L O W S	U C S Q u	M O I S T T
				Stream Bed Elev. <u>N/A</u> ft				
				Groundwater Elev.:				
				▽ First Encounter <u>Dry</u> ft				
				▽ Upon Completion <u>Dry</u> ft				
				▽ After <u>120</u> Hrs. <u>Dry</u> ft				

Soil Description	Depth (ft)	Blows	UCS (tsf)	M	Moisture (%)
1.5" asphalt on 9.25" concrete pavement, on 8" crushed stone subbase.	98.64				
Very stiff, damp, brown/gray, CLAY LOAM.	4	1.90	12		
	4	B			
	8	B			
Medium, damp, brown, fine grained, SAND. 12% passing #200 sieve.	7				
	9	2.47	12		
	9	B			
Hard, damp, gray, CLAY LOAM.	5				
	6	5.98	11		
	7	B			
Medium, damp, brown, fine grained, SAND. 12% passing #200 sieve.	5				
	7	2.89	12		
	10	B			
Hard, damp, gray, CLAY LOAM.	7				
	6	2.89	14		
	7	B			
Extent of exploration.	19				
	14				
Benchmark: TBM Centerline of Busn US 51 NB lanes, Sta 660+69 = assumed 100.00'	12				
	12				
Extent of exploration.	14				
	12				
Benchmark: TBM Centerline of Busn US 51 NB lanes, Sta 660+69 = assumed 100.00'	14				
	12				

Location: Just North of structure carrying Busn US 51 NB / IL 105 EB over Lake Decatur, on the South side of Decatur.

Note: Offset given is from Centerline of Busn US 51 NB lanes, not Centerline of survey.

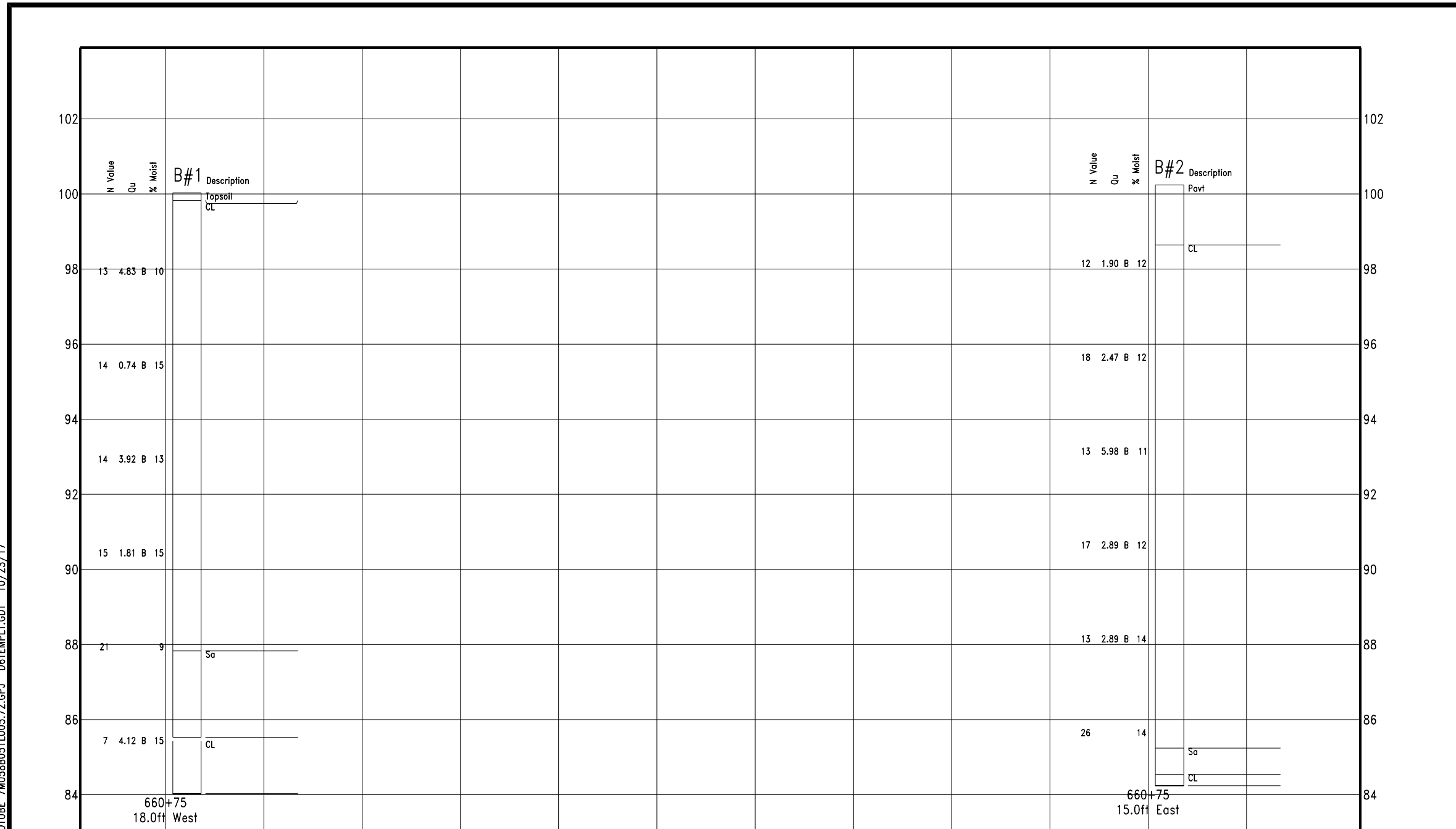
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)  
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 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

File Name: S:\NEW GEOTECHNICAL\GINTDATA\PROJECTS\MACON CO (058)\058-0000 SOIL 2017 MONOTUBE 7M058B051L005.72.GPJ Date Template D6TEEMPL1.CDT Date Printed 10/23/17  
 Latitude N 38.352429 deg Longitude W 93.826857 deg Datum Job Number

File Name: S:\NEW GEOTECHNICAL\GINTDATA\PROJECTS\MACON CO (058)\058-0000 SOIL 2017 MONOTUBE 7M058B051L005.72.GPJ Date Template D6TEEMPL1.CDT Date Printed 10/23/17  
 Latitude N 38.352429 deg Longitude W 93.826857 deg Datum Job Number



Structure Number 7M058B051L005.72 Monotube Sign Foundation  
 Located in the W 1/2 of Section 23, Township 16 N, Range 2 E of the 3 P.M.



TEST FENCE 2 058-0000 SOIL 2017 MONOTUBE 7M058B051L005.72.GPJ D6TEMP1.GDT 10/23/17

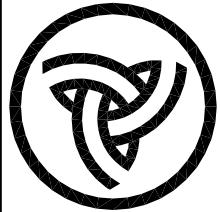
TEST FENCE 2 058-0000 SOIL 2017 MONOTUBE 7M058B051L005.72.GPJ D6TEMP1.GDT 10/23/17

NOT TO HORIZONTAL SCALE

VARIATIONS IN SUBSURFACE  
 CONDITIONS MAY EXIST  
 BETWEEN BORINGS

SUBSURFACE DATA PROFILE

Route: Busn US 51 NB  
 Section: N/A  
 County: Macon



Illinois Department  
 of Transportation  
 Division of Highways  
 IDOT

Groundwater  
 ▽ First Encounter  
 ▽ Completion  
 ▽ after (refer to log) hours

Abbreviations  
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 of Hammer, WOP - Weight of Pipe  
 B.S. - Before Sealing

MODEL: Default  
 FILE NAME: P:\1108\B051L005.72\DOT\Documents\B051L005.72.GPJ D6TEMP1.GDT 10/23/17

USER NAME = steffenmk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/15/2018	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BORING LOGS				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-7 OVD SIN STR REPL 19-04	VARIOUS	82	81
			CONTRACT NO. 46499	
ILLINOIS				

