1-20-2012 LETTING ITEM 158

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED

HIGHWAY PLANS

VARIOUS ROUTES SECTION D-7 OVD SIN STR REPL 12-21

SIGN STRUCTURE REPLACEMENT/REPAIRS **COLES & MACON COUNTIES**

C-60-021-12

INDEX OF SHEETS:

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NO.	DESCRIPTION
1	COVER SHEET
2-3	SUMMARY OF QUANTITIES
4	SCHEDULE
5-13	SIGN STRUCTURE DETAILS
14-16	SOIL BORING LOG SHEETS
17	SHORT-TERM ROAD CLOSURE DETAIL

HIGHWAY STANDARDS:

701101-02	OFF DO OPERATIONS AND THEATH AND 157 TO 047 SPON DAMENTARY FROM
701101-02	OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701400-05	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-06	LANE CLOSURE, FREEWAY/EXPRESSWAY
701406-06	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
701411-07	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS >= 45 MPH
701421-03	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS >=45 MPH TO 55 MPH
701422-03	LANE CLOSURE, MULTILANE, FOR SPEEDS >= 45 MPH TO 55 MPH
701451-01	RAMP CLOSURE FREEWAY/EXPRESSWAY
701456-01	PARTIAL EXIT RAMP CLOSURE FREEWAY/EXPRESSWAY
701601-07	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701901-01	TRAFFIC CONTROL DEVICES
720021-02	SIGN PANELS EXTRUDED ALUMINUM TYPE

ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

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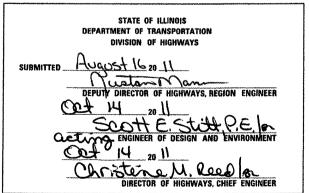
PROJECT ENGINEER: KALEB HIRTZEL PROJECT MANAGER: DEWAYNE SEACHRIST

CONTRACT NO. 46194

VARS

D7 OVD SIN STR REPL 12-21
Coles, Macon

LOCATION OF SECTION INDICATED THUS: - -



PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

	SUMMARY OF QUANTITIES		100% STATE TOTAL QUANTITY	MACON URBAN	COLES
CODE NUMBER	PAY ITEM	UNIT	QUANTITY	0040	0040
67100100	MOBILIZATION	L SUM	1	0.5	0.5
73300200	OVERHEAD SIGN STRUCTURE - SPAN, TYPE IIA (4'-6" X 5'3")	FOOT	182		182
73301810	OVERHEAD SIGN STRUCTURE - WALKWAY, TYPE A	FOOT	102		102
73400200	DRILLED SHAFT CONCRETE FOUNDATION	CU YD	42		42
73600100	REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	2		2
73700300	REMOVE CONCRETE FOUNDATION OVERHEAD	EACH	4		4
82109105	SIGN LIGHTING (HIGH PRESSURE SODIUM)	EACH	8		8
X0322906	WEEP HOLES CORED	EACH	8	4	4
X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1	0. 4	0.6
X7200075	REMOVE AND REINSTALL SIGN PANEL	SQ FT	715		715
X7200085	REPLACE AND TIGHTEN SIGN MOUNTING CLIPS PER EACH SIGN	EACH	6	2	4
X7330066	REPAIR HANDRAIL LOCKING PIN CONNECTION	EACH	22		22
X7330070	OVERHEAD SIGN SUPPORT GROUT REPAIR	EACH	8	6	2
X7330080	REPLACE WALKWAY SUPPORT BRACKET BOLT	EACH	2		2
X7330112	. SAFETY CHAIN	EACH	1		1
X7330097	OVERHEAD SIGN STRUCTURE - CANTILEVER CAP END OF CHORD	EACH	2	2	
X7330100	PAINT OVERHEAD SIGN SUPPORT	EACH	6	3	3

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	REVISED -			F.A. CESTION COUNTY TOTAL SHEET
FILEL		DRAWN -	REVISED -	STATE OF ILLINOIS	SUMMARY OF QUANTITIES	RTE. SECTION COUNTY SHEETS NO.
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	PLOT DATE : #DATE#	DATE -	REVISED		SCALE: SHEET NO. OF SHEETS STA. TO STA.	CONTRACT NO. 46194
						THE INDISTREMENTAL PRODUCT

• D7 OVD SIN STR REPL 12-21

	SUMMARY OF QUANTITIES		100% STATE TOTAL QUANTITY	MACON URBAN	COLES
CODE NUMBER	PAY ITEM	UNIT	QUANTITY	0040	0040
X7330120	REPLACE SPLICE FLANGE BOLT	EACH	11		11
X7330122	REPLACE TRUSS ATTACH BOLT	EACH	24	24	
X7370005	REPAIR CONCRETE FOUNDATION FOR OVERHEAD SIGN STRUCTURE	EACH	3	1	2
X8040510	RELOCATE ELECTRIC SERVICE	EACH	2		2
X8140232	REPLACE HAND HOLE COVER BOLT	EACH	. 3		3
X8140234	REPLACE HANDHOLE COVER	EACH	1		1
X733009	METAL SCREEN	EACH	1		1
Z0052394	REPLACE U-BOLT	EACH	16	6	10
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\$FILEL\$		DRAWN -	REVISED -	STATE OF ILLINOIS	SUMMARY OF QUANTITIES RTÉ. SECTION COUNT SHEETS	10-
	PLOT SCALE : #SCALE#	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		3
	PLOT DATE = #DATE#	DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA. IN LIMITED FOR A 10 SPONECT	.94
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Location No.:	7-01	State	I. D. No. :	SN	'S015105	7R189. 4	
County:	Coles	Rouțe:	I 57	M. P. :	189.4	Direc	tion: NB
Description o	f Work	-				Unit	Quantity
OVERHEAD SIGN	"}	FOOT	96				
OVERHEAD SIGN STRUCTURE - WALKWAY, TYPE A							51
DRILLED SHAFT CONCRETE FOUNDATION							20.8
REMOVE OVERHE	AD SIGN STRU	CTURE - S	PAN			EACH	1
REMOVE CONCRE	TE FOUNDATIO	N OVERHE	AD			EACH	2
SIGN LIGHTING (HIGH PRESSURE SODIUM)						EACH	4
REMOVE AND RE	INSTALL SIGN	PANEL				SQ FT	289
RELOCATE ELEC	TRIC SERVICE					EACH	1

Locatio	n No.:	7-05	State	I.D. No.	:	SN	7505800	36L007.	5
County:		Macon	Route:	us	36	м. Р.	7.5	Direc	etion: WB
Descrip	tion o	f Work	***************************************	and the second second		* * **		Unit	Quantity
WEEP HOL	ES CO	RED						EACH	4
REPL AND	TIGH	TEN SIGN MOUN	CLIPS	PER EAC	H SIGN			EACH	1
OVERHEAD	SIGN	SUPPORT GROU	T REPAII	₹				EACH	2
PAINT OV	ERHEA	D SIGN SUPPOR	r					EACH	1
REPLACE	SPLIC	E FLANGE BOLT						EACH	10

		Macon f Work FEN SIGN MOU	Route:	US 51	м.	P. :	7. 1	Direc	ction:	NB
Descripti REPL AND										L
REPL AND	TIGHT	EN SIGN MOU						Unit	Quan	†1†y
		moo	NT CLIPS	PER EACH	IGN			EACH		l
REPAIR HA	NDRA	IL LOCKING P	IN CONNEC	TION				EACH	1	0
REPLACE W	ALKW	AY SUPPORT B	RACKET BO	LT				EACH	1	?
REPLACE H	IAND H	HOLE COVER B	OLT					EACH	1	i
REPLACE H	IAND I	HOLE COVER						EACH	!	l
REPLACE U	I-BOL	Т				****		EACH	3	3
			******************	***************************************	daging in a Period Security Security			***************************************		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
				***************************************					-	

Location I	No. :	7-02	State	I. D. No.:	SN	75058107	2L141.	4
County:		Macon	Route	1 72	M. P. :	141.4	Dire	ction: WB
Description	on of	Work	***************************************	***********			Unit	Quantity
OVERHEAD S	SIGN	STRUCTURE -	SPAN TYP	E IIA (4' -	6" X 5' -3'	')	FOOT	86
OVERHEAD S	SIGN	STRUCTURE -	WALKWAY,	TYPE A			FOOT	51
DRILLED SH	HAFT	CONCRETE FO	UNDATION				SQ YD	21.2
REMOVE OVE	RHEA	D SIGN STRU	CTURE - S	PAN			EACH	1
REMOVE CON	VCRET	E FOUNDATIO	N OVERHE	AD			EACH	2
SIGN LIGHT	TING	(HIGH PRESS	URE SODIL	JM)			EACH	4
REMOVE AND	REI	NSTALL SIGN	PANEL				SQ FT	426
RELOCATE E	ELECT	RIC SERVICE			***************************************		EACH	1

Location No.	: 7-06	State	I. D. No.:			SN	263	***************************************	
Countys	Macon	Route:	IL 48/	121	M. P. :	N/A	Dire	ction: WB	
Description	of Work				***************************************		Unit	Quantity	
REPL AND TIG	EPL AND TIGHTEN SIGN MOUNT CLIPS PER EACH SIGN								
OVERHEAD SIG	OVERHEAD SIGN SUPPORT GROUT REPAIR								
PAINT OVERHE	PAINT OVERHEAD SIGN SUPPORT .								
REPLACE TRUS	S ATTACH BOLT						EACH	12	
REPLACE U-BO	LT						EACH	6	

Location No	7-10	State	I. D. No. :	SN 1	75058U	51R007.	50
County:	Macon	Route:	US 51	M. P. :	7.5	Direc	ction: NB
Description	of Work	ether meneralisk ethanisen skrige sa suur		PERSONAL AND		Unit	Quantity
REPL AND TI	GHTEN SIGN MOU	NT CLIPS	PER EACH SI	GN		EACH	1
FURNISH AND	INSTALL SAFET	Y CHAIN				EACH	1
PAINT OVERH	EAD SIGN SUPPO)RT				EACH	1
REPLACE SPL	ICE FLANGE BOL	Τ .				EACH	1
REPLACE HAN	DHOLE COVER BO)LT				EACH	1
REPLACE U-E	IOLT					EACH	6

Location	No.:	7-03	State I.	D. No. :	SN 7	S058U03	6R016.	57
County:		Macon	Route:	US 36	M. P. :	16.57	Direc	ction: WB
Descripti	on of	Work					Unit	Quantity
WEEP HOLE	S COR	ED					EACH	4
OVERHEAD	SIGN	SUPPORT GRO	UT REPAIR				EACH	2
PAINT OVE	RHEAD	SIGN SUPPO	RT				EACH	1
REPAIR CO	NC FO	UNDATION FO	R OVERHEAD	SIGN STR			EACH	1
	***************************************				*********		***********	

Locatio	n No. :	7-07	State	I. D. No.:			SN 26	4	
County:		Macon	Route:	IL 48/	121	M. P.	N/A	Dire	ction: WB
Descrip	tion o	f Work			************			Unit	Quantity
REPL AND	TIGH	TEN SIGN MOUN	NT CLIPS	PER EACH	SIGN			EACH	1
OVERHEAD	SIGN	SUPPORT GRO	UT REPAIR	₹				EACH	2
PAINT O	/ERHEA	D SIGN SUPPO	RT					EACH	1
REPLACE	TRUSS	ATTACH BOLT						EACH	12
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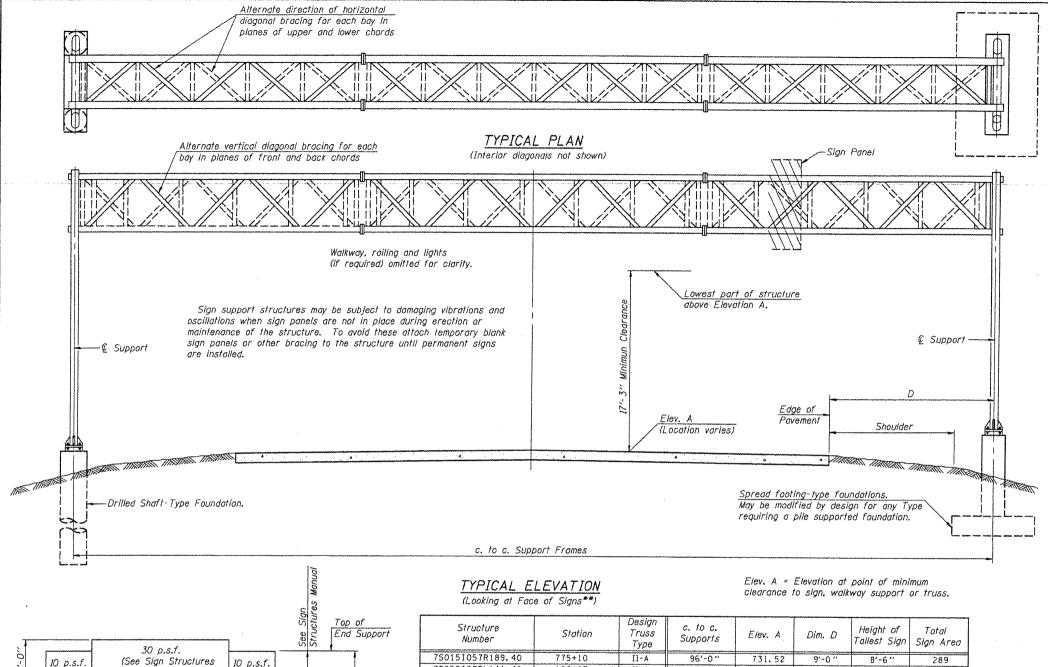
Location No	.: 7-04	State I.	D. No. :	SN 7	'C058S1	05L005.	2
County:	Macon	Route	105	M. P. :	5.2	Dire	ction: WB
Description	of Work		****************	***************************************		Uni+	Quantity
OVERHEAD SI	GN STRUCTURE	- CANTILEVE	R CAP END	OF CHORD		EACH	2
						······································	<u> </u>
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Locatio	n No.: 7-08	164-4-	I B N= .[0.70 0	
	1 NO. 1 1-08	STOTE	I. D. No.:	()	0581072	R132. 90)
County:	Macon	Route:	1 72	M. P. :	132.9	Direc	ction: EB
Descrip	tion of Work		***************************************			Unit	Quantity
REPL AND	TIGHTEN SIGN MO	UNT CLIPS	PER EACH SI	GN		EACH	1
REPAIR H	HANDRAIL LOCKING	PIN CONNEC	TION			EACH	12
PAINT OV	VERHEAD SIGN SUPF	ORT				EACH	1
REPAIR C	CONC FOUNDATION F	OR OVERHEA	D SIGN STR			EACH	2
REPLACE	HAND HOLE COVER	BOLT				EACH	1
FURNISH	AND INSTALL META	L SCREEN		***************************************		EACH	1
REPLACE	U-BOLT			***************************************		EACH	1
				Web. 1777-1874-1874-1874-1874-1874-1874-1874-			

FILE NAME : USER NAME = #USER# DESIGNED -REVISED -DRAWN -REVISED -CHECKED -PLOT SCALE = #SCALE# REVISED REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES SCALE: SHEET NO. OF SHEETS STA. TO STA. | MIE. | SECTION | COUNTY | SHEET | NO. |
VARS	•	17	4
CONTRACT NO.	46194		
ILLINOIS	FED. AID	PROJECT	
• D7 OVD SIN STR REPL 12-21			



Structure Number	Station	Design Truss Type	c. to c. Supports	Elev. A	Dim. D	Height of Tallest Sign	Total Sign Area
75015I057R189,40	775+10	II-A	96'-0"	731.52	9′-0 ′′	8'-6"	289
7S058I072L141.40	166+85	II~A	86'-0''	647, 19	11'-0 "	12'-0''	426
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^{**}Looking upstation for structures with signs both sides.

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's = 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 DL1 and DL2 Structural Welding Codes (Steel and Aluminum) and the Standard Specificiations.

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 MI64 (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 Hat Dip Galvanized after fabrication in accordance with AASHTO MIII. 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 Bridge Seat 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	~
OVERHEAD SIGN STRUCTURE SPAN TYPE II-A	Foot	182
OVERHEAD SIGN STRUCTURE SPAN TYPE III-A	Foot	-
OVERHEAD SIGN STRUCTURE WALKWAY TYPE A	Foot	102
CONCRETE FOUNDATIONS	Cu. Yds.	
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	42.0.

OS-A-1

SFILELS

analysis for all components.

1-20-11

Manual for max. sign areas)

Maximum Length
c. to c. Support Frames

(See Sign Structures Manual)

DESIGN WIND LOADING DIAGRAM

Parameters shown are basis for I.D.O.T. Standards and Sign Manual Tables. Installations not within dimensional limits shown require special

31'-0", max. ype I-A , II-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

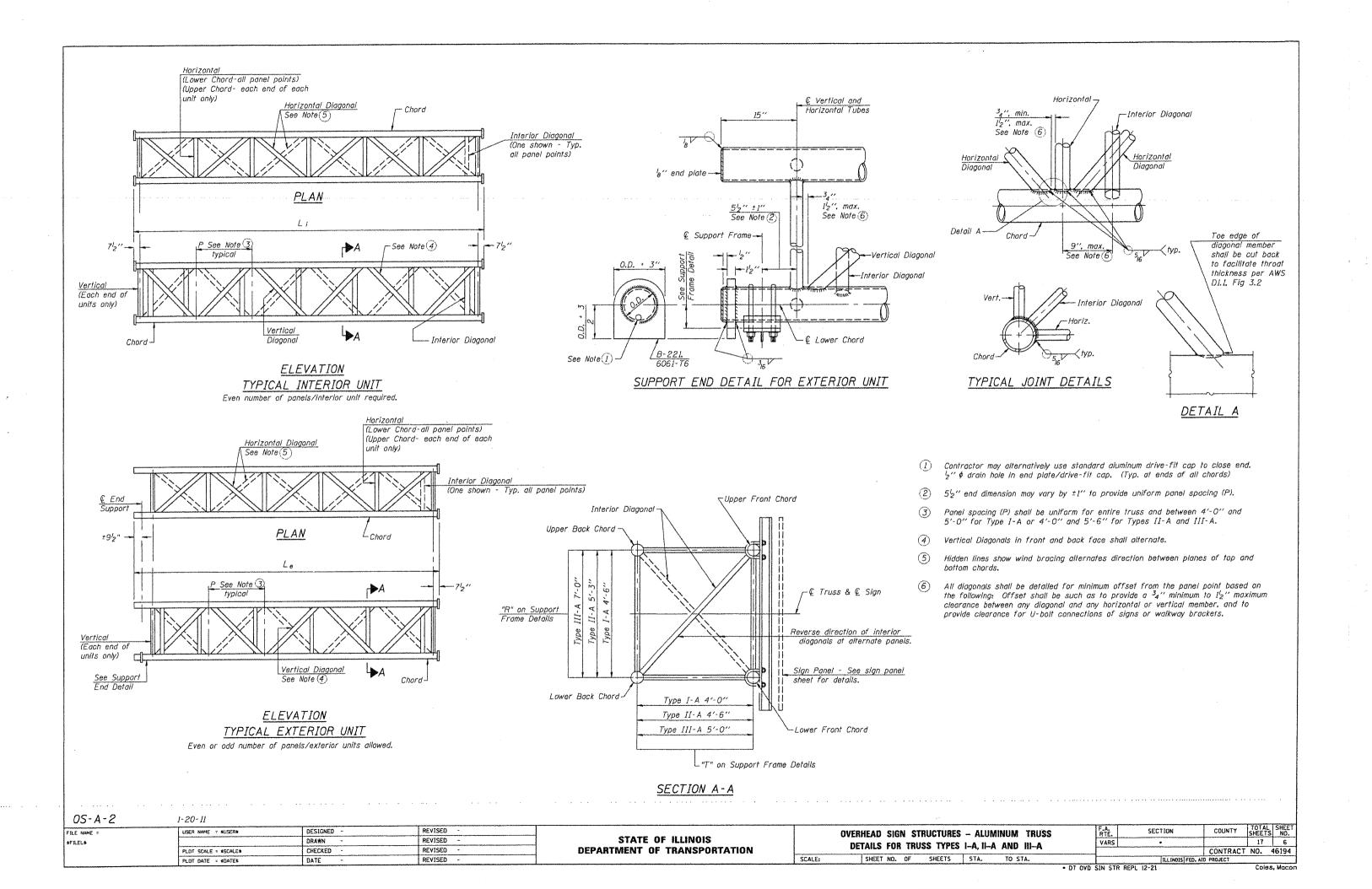
| SHEET NO. OF SHEETS | STA. TO STA.

F.A. SECTION COUNTY TOTAL SHEETS NO.

VARS • CONTRACT NO. 46194

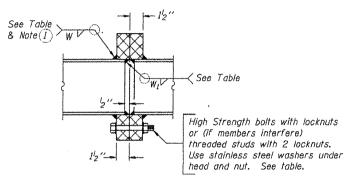
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^{*} If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.



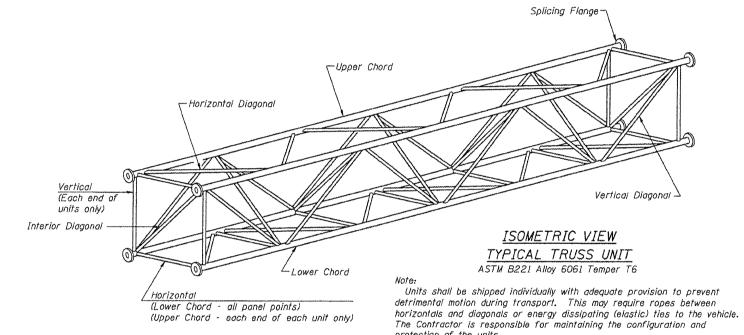
TRUSS UNIT TABLE

Structure		Design Truss	Exte	rior Units	(2)		Interio	r Unit			& Lower ord		izontals; Vertical, Interior Diagonals	Camber		,	Splicing	Flange		
Number	Station	Type	No. Panels		Panel (D)		No. Panels		Panel					Midspan	Bolt		-	Sizes	A	В
			per Unit	Lgth.(Le)	***************************************	Reg a.	per Unit	Lgth.(L ₁)		0.D.	Wall	0.D.	Wall		No./Splice	Dia.	W	W_I	, .	
7S015I057R189. 40	775+10	II-A	6	32'-9"	5'-13/4"	1	6	2'-11/2"	5'-13/4"	6"	5/16	3"	₹6	3"	6	7∕8	3/8	1/4	101/4"	133/4'
7S0581072L141.40	166+85	II-A	5	27'-81/2"	5'-2"	1	6	32′-3 "	5′-2″	51/2′′	5/16	3"	5/16	21/2"	6	1/8	3/8	1/4	91/4"	121/4
											T									



SECTION B-B

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.



protection of the units.

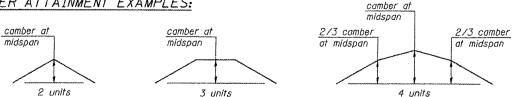
c to c of support frame Camber required See table.

CAMBER DIAGRAM

(Upper Chord - each end of each unit only)

Camber curve shown is theoretical. Actual camber attained by slope changes at splices between units.

CAMBER ATTAINMENT EXAMPLES:



Camber shown is for fabrication only, measured with truss fully supported. (No-load condition)

054-A-2

1-20-11

FILE NAME :	USER NAME = \$USER#	DESIGNED -	REVISED -
\$FILEL\$		DRAWN -	REVISED -
	PLDT SCALE : #SCALE#	CHECKED -	REVISED -
	PLOT DATE : *DATE*	DATE -	REVISED -

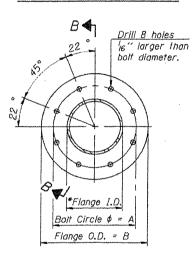
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

 OVERHEAD	SIGN	STRU	CTURES	- ALUMINU	JM TRUSS	DETAILS
	FOR	TRUSS	TYPES	I-A, II-A AI	ND III-A	
SCALE:	SHEET	NO. OF	SHEE	TS STA.	TO STA.	

SECTION COUNTY CONTRACT NO. 46194

Drill 6 holes l_{l6}" larger than bolt diameter. *Flange 1.D.

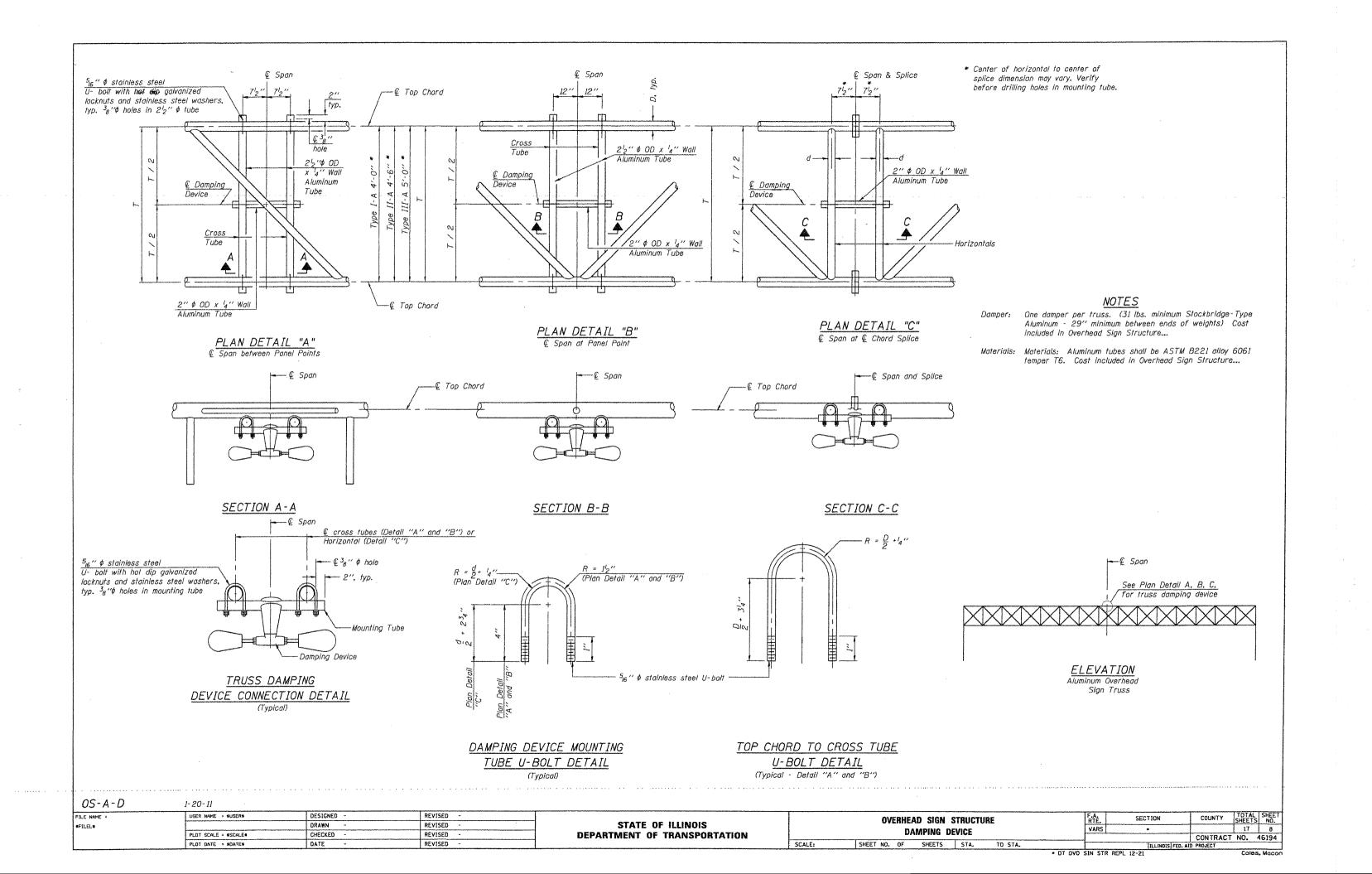
TRUSS TYPES I-A, II-A, & III-A

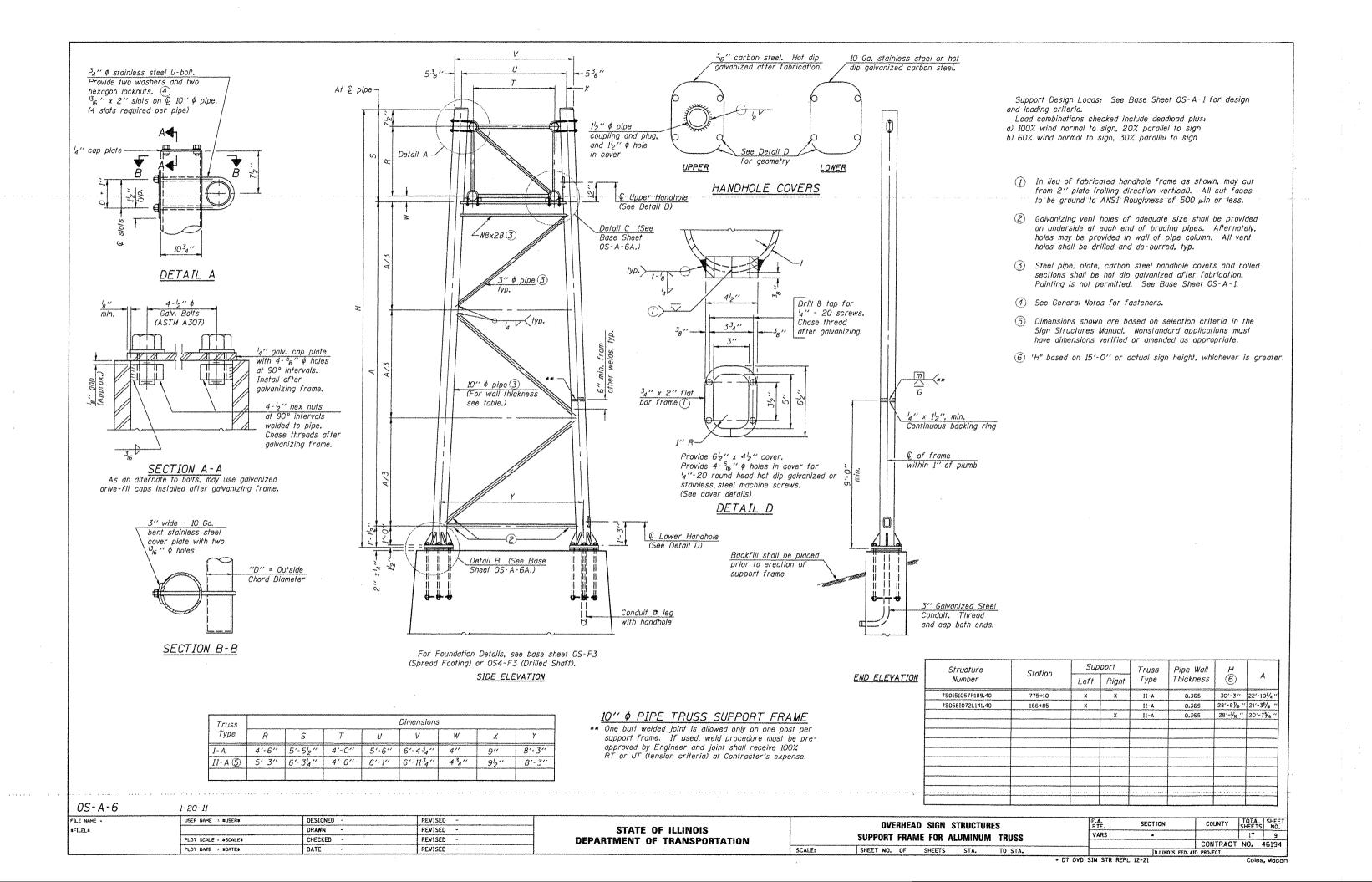


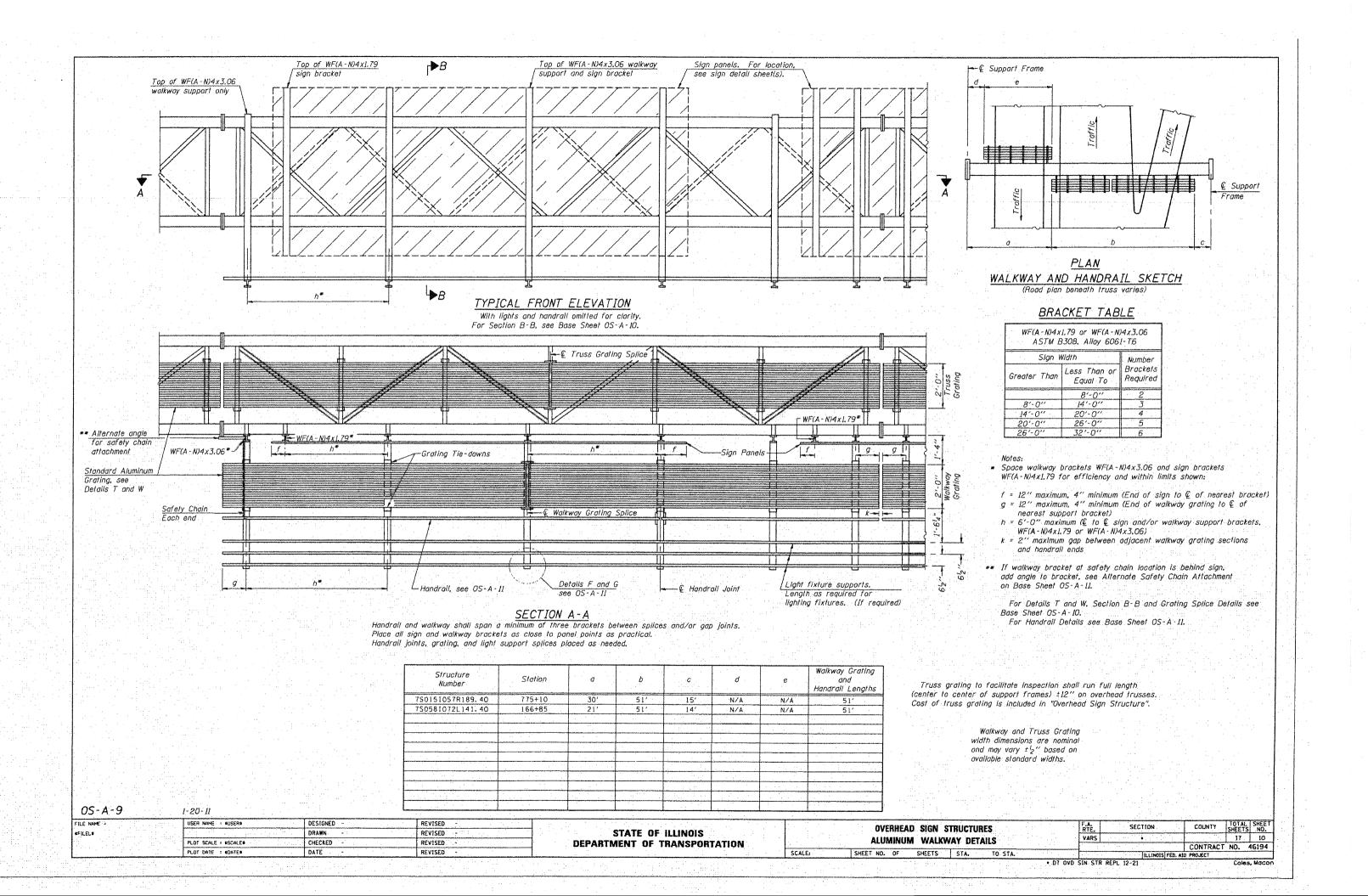
TRUSS TYPES II-A & III-A

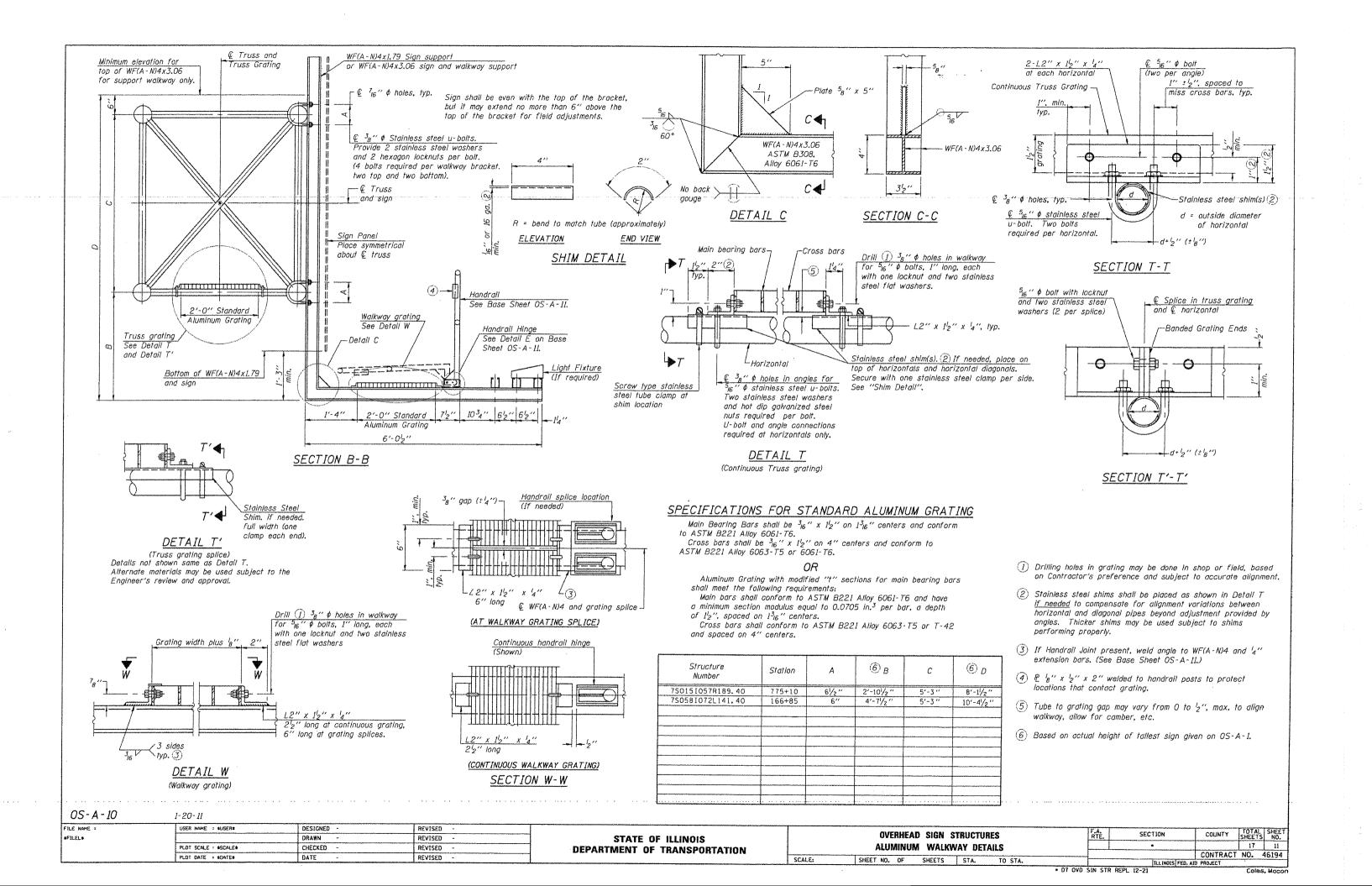
SPLICING FLANGES

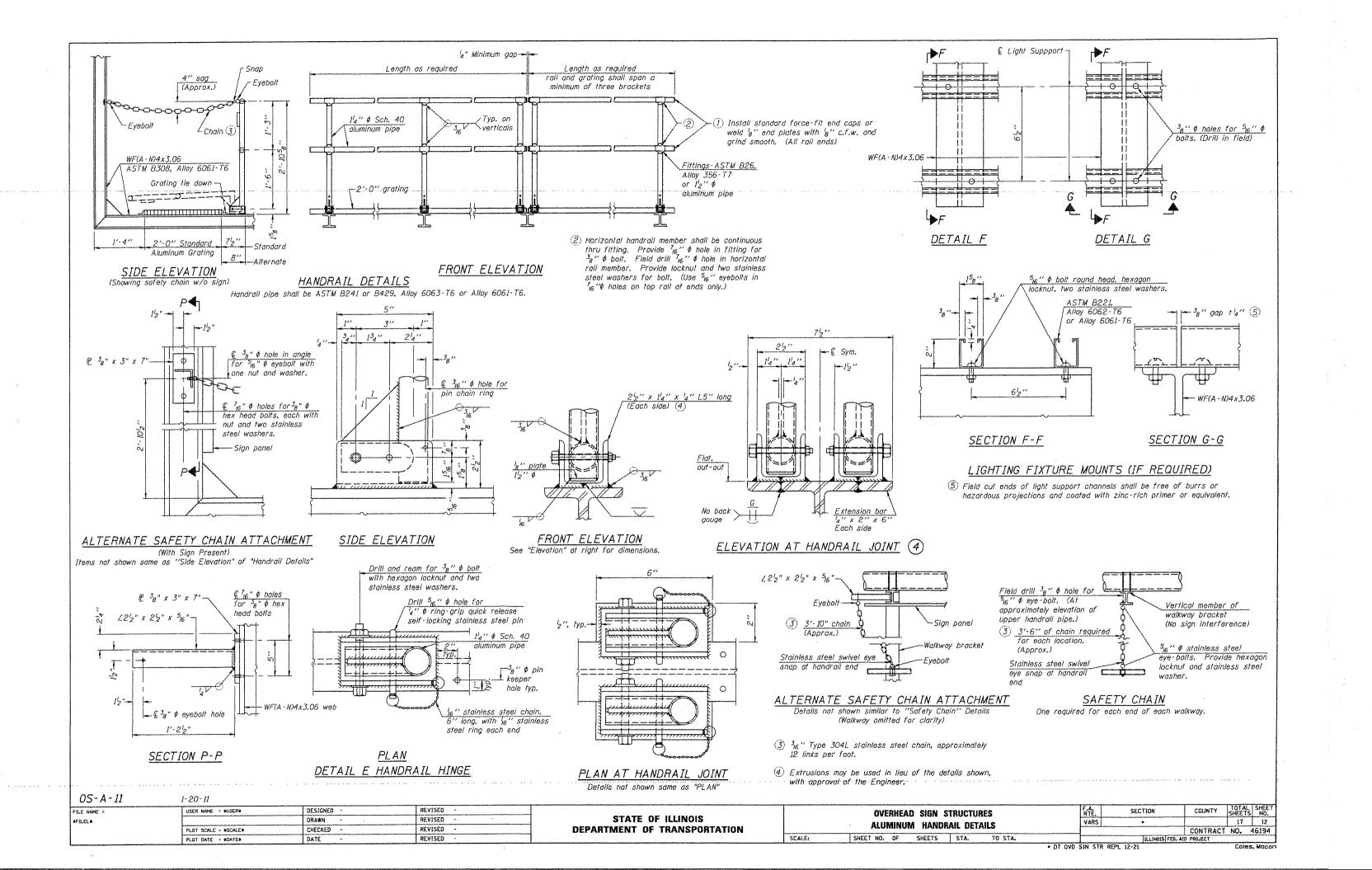
ASTM B221, Alloy 6061-T6 or ASTM B209, Alloy 6061-T651 *To fit O.D. of Chord with maximum gap of 16".

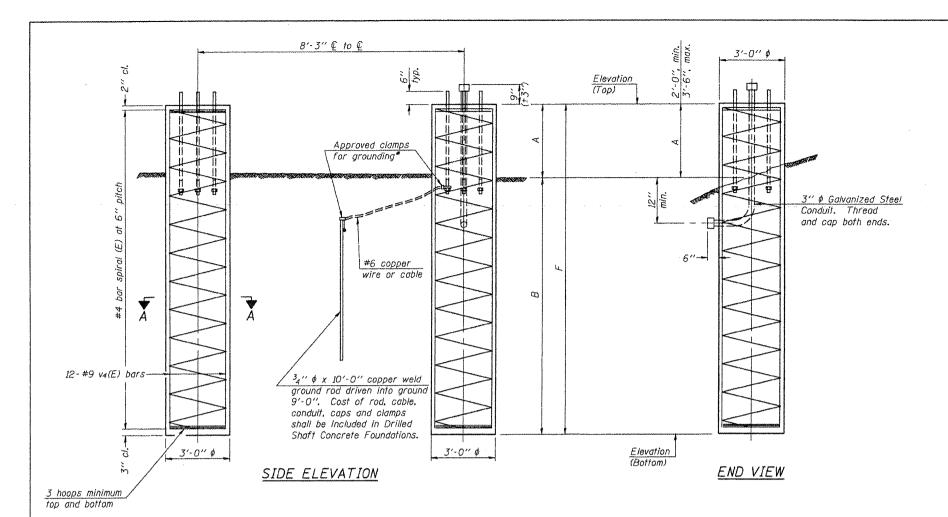


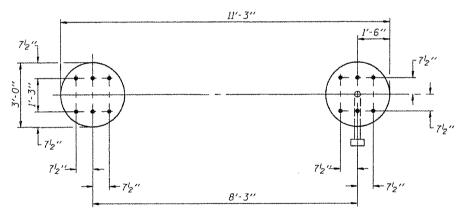












For anchor rod size and placement, see Support Frame Detail Sheet.

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

BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
v4(E)	24	#9	F less 5"	
#4 bo	ar spiral (i	E) - see :	Side Elevatio	חו

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.

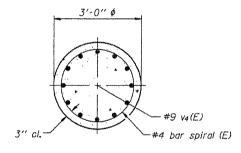
If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as built" plans shall be prepared and submitted to the District 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 Bridge Seat Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.



SECTION A-A

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

PLAN

Ctrontor				Left Fo	undation			Right Fo	undation			Class DS
Structure Number	Station	Elevation Top	Elevation Bottom	А	В	F	Elevation Top	Elevation Bottom	А	В	F	Concrete (Cu. Yds.)
7S0151057R189.40	775+10	730.36	710.86	2′ -0′′	17'~6''	19'-6"	730.36	710.04	2'-91/8''	17'-6''	20'-31/8"	20.8
7S058[072L141.40	166+85	647.57	626.57	3'-6''	17'-6''	21′-0″	648.27	628.77	2'-0"	17'-6''	19'-6''	21.2

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		†										
		1	. ,		.,							

0S4-F3

1-20-11 FILE NAME = DESIGNED -REVISED USER NAME = SUSERS REVISED DRAWN -\$FILEL\$ REVISED . PLOT SCALE : #SCALE# CHECKED -PLOT DATE : *DATE* DATE REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

OVERHEAD SIGN STRUCTURES VARS DRILLED SHAFT DETAILS SHEET NO. OF SHEETS STA. TO STA.

COUNTY TOTAL SHEE NO. SECTION 17 CONTRACT NO. 46194

• D7 OVD SIN STR REPL 12-21

ILLINOIS DOT						Date	7
ROUTE - FAI 57 DESCRIPTION				Overhe	ad Sign Truss - NB LOGGED BY	<u>. E.</u>	Sand
SECTION	LOCATION		SW 1/	4, SEC	C. 16, TWP. 12 N, RNG. 8 E, 3 PM		
COUNTY Coles DRILLIN	G METHO	D	Ho	low st	em auger & split spoon HAMMER TYPE	Auto	140
STRUCT. NO. 7S015I057R189.4 Station 774+87	D E P	B L O	U C S	0	Surface Water Elev. N/A ft Stream Bed Elev. N/A ft	L	U C S
30RING NO. 1 Station 774+73	T	W S	Qu	S	Groundwater Elev.:	W	Qu
Offset 0.0ff Cl.					V Upon Completion 720.3 ft		
Ground Surface Elev. 727.78	ft (ff) 38	/6*	(tsf)	(%)	▼ After <u>24</u> Hrs. <u>721.3</u> ft (†	f) /6"	(tsf
Very stiff, damp, brown, CLAY					Very stiff, domp, gray, CLAY LOAM 707.58 TILL.	5	В
.voin.						\exists	
	-	3	3.5	21		2 4	2.3
		6	PP	ļ		6	В
723	.28				703.28	_	
fiff, damp, gray, CLAY.	5	3	1.8	24	Stiff, damp, gray, SANDY CLAY	25 4	1.8
		4	PP			7	BS
720	.78				700.78	\dashv	
/ery soft, very damp, gray, SILTY y	7	1	0.1	14	Stiff to medium, damp, gray, CLAY	1 3	1.6
		2	8			4	В
						1	
717	.48 -10	1 2	0.8	15		so 1 1	0.6
fedium, damp, brown, CLAY OAM TILL.		3	В			3	В
715	.78					_	
itiff, damp, brown, SILTY CLAY OAM TILL.	+	1 2	1.6	14	-	2	0.9
	7	4	В		-	4	В
<u> </u>	.28				-	1 .	
rown, SANDY LOAM. 712 /ery stiff, damp, gray, CLAY LOAM	<u>-15</u>	4	2.1	13	_==	3 1	1.3
ILL.		6	В			5	8
						1	
709.	.78	4	0.8	18	-	-	
Medium, damp, gray, SILTY OAM.		7	8		-	1	
		3			688.28	7	

Division of Highways					Date
ROUTE FAI 57 DESCRIPTION		Overhe	ad Sign Truss - NB	LOGGED BY	E. Sand
SECTION LOC	CATION _	SW 1/4, SEC	. 16, TWP. 12 N, RNG.	8 E, 3 PM	
COUNTY Coles DRILLING	METHOD	Hollow st	em auger & split spoon	HAMMER TYPE	Auto 140
STRUCT. NO. <u>750151057R189.4</u> Station <u>774+87</u>	D B E L P O	U M C O S	Surface Water Elev. Stream Bed Elev.	N/A ft	
BORING NO. 1 Station 774+73 Offset 0.0ff CL	T W H S	Qu T	Groundwater Elev.:	713.3 ft 720.3 ft	
Ground Surface Elev. 727.78 ft Medium, damp, gray, SANDY	(ft) /6"	(isf) (%) 0.9 15	After 24 Hrs.	721.3 ft	.,
LOAM TILL. (continued) 686.78 Extent of exploration.	~~~ ·	S			
Benchmark: Top of East sign truss foundation = 731.06' elevation. Provided by Program Development. Overhead Sign Truss #03 601, located at Mile Post 189.4, Northbound 1-57. Just South of the 1-57 / IL 16 Interchange.	-45 45 				
	1 2 2				

E NAME :	USER NAME : 9USER\$	DESIGNED -	REVISED -			e (DIL BORING	e Loc	***************************************		F.A.	SECTION	COUNTY	TOTAL SI	EET
ILEL\$		DRAWN -	REVISED -	STATE OF ILLINOIS		-				. ł	KIE.	-	 	17	14
	PLOT SCALE = *SCALE*	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		SN	7\$015105	7R189.4		· · · · · · · · · · · · · · · · · · ·			CONTRACT	NO. 461	194
	PLOT DATE = #DATE#	DATE -	REVISED -		SCALE:	SHEET NO. OF	SHEETS	STA.	TO STA.		····	ILLINOIS FED. A	D PROJECT	1101	-
									,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	• 07 OVD S	11. 070 000			Coles, M	

	inois Depart Transporto	ition				SOIL BORING LOG	Page	1
Divis	ion of Highways OIS DOT						Date	7/
ROUTE FAI	57 DESCRIPTI	ON			Overhe	ad Sign Truss - NB LOGGED BY	<u>E.</u>	Sands
SECTION		LOCATION	ı	SW 1/	4, SEC	C. 16, TWP. 12 N, RNG. 8 E, 3 PM		
COUNTY	Coles DRILL	ING METHO	D	_ Ho	low st	am auger & split spoon HAMMER TYPE	Auto	140#
STRUCT. NO	7S015l057R189.4 774+87	- D E P	B L O	U C S	0	Surface Water Elev. N/A ft E E E E E E E E E E E E E E E E E E	L	U C S
BORING NO.	22	- T	₩ S	Qu	S	Groundwater Elev.:	W	Ou
Station Offset Ground Surface E	775+15 90,0ft Rt Dev. 730,11	- " - _{ft} (ft)	/6"	(tsf)	(%)	▼ First Encounter 703.1 ft ▼ Upon Completion 695.1 ft ▼ After 24 Hrs. 721.3 ft		(tsf)
14.5" asphalf shou	***************************************	- " 1, ,			<u> </u>	Stiff, damp, gray, CLAY LOAM	4	1.7
Very stiff, damp, g	TOU CLAY LOAM	728.91				TILL.	5	В
TILL embankment.	gray, CDN: COAM		3				7,	
			4 5	3.0 B	14	-	2	1.1
				В.			4	В
Stiff, damp, black,	TOPSOIL, highly	<u>25.61</u>	3				1	
organic.			5 6	1.9 B	23	-	2 3	1.0 B
							 	P
Medium, damp, gro	iy, CLAY LOAM	23.11	1			Gray, SANDY LOAM. 702.61	5	
w/ frace small Gro	ıvel.		2 2	0.6 B	18	Medium to stiff, damp, gray, CLAY LOAM TILL.	4 3	0.7 B
	¥				******	-		
Stiff, damp, gray,	CLAY LOAM	20.61	1			-3	3	
TILL.		\exists	1 2	0.6 B	16	-	4 3	0.6 B
								
			2				1	
			3 5	2.0 B	12		3 4	1.0 B
		<u>-15</u>	2			Medium, damp, gray, SILTY 9 694.91 -3	5 3	
		4	3 5	1.7 B	12	Soft to medium, damp, gray, CLAY	3 4	0.7 B
						LOAM TILL.	1	
			3				1	
			4	1.5 B	13	Auger plug sank 2.5', skipped this trip.	+	
							‡==†	
	7	10.11 -20	3			590.11 -4		

Illinois Departm of Transportation Division of Highways	on		SOIL BORING LOG	Date7
ROUTE FAI 57 DESCRIPTION		Overhe	and Sign Truss - NB LOGGED B	F. Sand
SECTION L	OCATION	SW 1/4, SEC	C. 16, TWP. 12 N, RNG. 8 E, 3 PM	·
COUNTY Coles DRILLING	METHOD	Hollow st	em auger & split spoon HAMMER TYPE	Auto 140
STRUCT. NO. 750151057R189.4 Station 774+87	D B E L P O T W	U M C O S I	Surface Water Elev. N/A ft Stream Bed Elev. N/A ft	
BORING NO. 2 Station 775+15 Offset 90.0ft Rt Ground Surface Elev. 730.11 ft	H S	Qu T (tsf) (%)	Groundwater Elev.: □ First Encounter 703.1 ft □ Upon Completion 695.1 ft □ After 24 Hrs. 721.3 ft	
Soft to medium, damp, gray, CLAY LOAM TILL.				
686	- 2 - 3 - 3	0.5 15 B		
Extent of exploration.	45 			
Benchmark: Top of East sign truss foundation = 731.06' elevation, Provided by Program Development.				
Overhead Sign Truss #03 601, located at Mile Post 189.4, Northbound 1–57. Just South of the 1–57 / IL 16 Interchange.				
	-60			

PLOT SCALE = SCALES PLOT MANY PLOT SCALE = SCALES CHECKED - REVISED - DEPARTMENT OF TRANSPORTATION SN 7S0151057R189.4 CONTRACT NO.	LE NAME =	USER NAME = \$USER\$	DESIGNED -	REVISED -			CON DODING LOG			SECTION ·	COUNTY TO	TAL SHEET
PLOT SCALE = SCALES CHECKED - REVISED - DEPARTMENT OF TRANSPORTATION SN 7S0151057R189.4 - 17 PLOT SCALE = SCALES CHECKED - REVISED - DEPARTMENT OF TRANSPORTATION SN 7S0151057R189.4 - 17 CONTRACT NO.	ILEL*		DRAWN -	REVISED -	STATE OF ILLINOIS		SOIL BORING LOG		RTE.	2EC I IUN	SHE	EETS NO.
PLOT DATE - DATE - DATE - DEVISED -		PLOT SCALE = #SCALE#	SCALE = #SCALE# CHECKED -	REVISED -			SN 7S015I057R189.4	ļL-			17 15	
TILLINOIS FED. AID PROJECT		PLOT DATE = *DATE*	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS STA. TO	STA.		ILLINOIS F	CONTRACT NO ED. AID PROJECT	0, 46194

Division of Highways ILLINOIS DOT						Date	7
ROUTE FAI 72 DE	SCRIPTION			<u>Overhe</u>	ad Sign Truss - WB LOGGED	BY <u>E.</u>	Sano
SECTION N/A	LOCATIO)N	S 1/2	SEC.	23, TWP. 17 N, RNG. 2 E, 3 PM	······································	
COUNTY Macon	DRILLING METH	IOD	<u>Hol</u>	low ste	em auger & split spoon HAMMER TYPE	Aut	0 140
STRUCT. NO. 750581072L1 Station 166+85	41.4 D E	B L O	U C S	0	Surface Water Elev. N/A ft Stream Bed Elev. N/A ft	D B L P O	CS
BORING NO. 1 (Median Station 167+13 Offset 0.0ft CL	<u>л</u> Н	w S	Qu	S T	Groundwater Elev.: □ First Encounter □ Dry ft □ Upon Completion □ Dry ft	T W H S	Qu
Ground Surface Elev. 64.	3.76 ft (ff	/6"	(tsf)	(%)	▼After 96 Hrs. 630.3 ft Shiff to very stiff, damp, gray,	(ft) /6'	(tst
2" brown, Silty Loam topsoil. Very stiff, damp, brown marbles gray, CLAY LOAM TILL.					CLAY LOAM TILL.	6	В
		7				3	
		8	3.9 B	11		5 10	2. B
		1				_	
Medium, damp, gray, CLAY LOAM TILL.	639.26	3 4 4	0.5 8	14		-25 3 -25 4 7	1.1 B
		 `	Ť				╁
Stiff, damp, gray, CLAY LOAM	636.76	3			,	4	
TILL.		5 6	1.5 B	12		- 6 11	3.9 B
						_	
		0 3	1.7	12		-30 6 8	2.6
	···	6	B	12	612.76		B
		1			Extent of exploration.	\exists	
		2	1.4	12		-	
	¥ _	5	8	-	Benchmark: Temporary BM on top of existing North OH Sign Truss	7	
	-	2			foundation = 646.29°		
	<u>-1</u>	3	1.2	13			
	-	4	В	ļ		_	
		2					
		3	1.5	12			
	-	6	В				
	623.76 ~2	2				4	

	Ilinois Dep of Transpo iviation of Highways Linois pool	rtatio	n				SOIL BORING L	OG	Date	7

ROUTE F	AI 72 DESC	RIPTION				Overhe	ad Sign Truss - WB	LOGGED	BY <u>E</u> .	Sano
SECTION	N/A	LOC	HOITA		S 1/2,	SEC.	23, TWP. 17 N, RNG. 2 E, 3 I	PM		
COUNTY	Macon	DRILLING N	METHO	0	Hol	ow ste	am guger & split spoon HAN	IMER TYPE	Au	0 140
STRUCT, NO.	7S058I072L141 166+85	.4	D E P	8 L 0	U C S	0	Surface Water Elev. Stream Bed Elev.	N/A ff	D B E L P O	U C S
Station	2 (North) 167+13		T H	W S	Qu	S	Groundwater Elev.: First Encounter	Dry ft	T W H S	Qu
Offset Ground Surface	80.0ff Li Elev. <u>646.</u>	13 ft	(ff)	/6"	(tsf)	(%)	▼ Upon Completion ▼ After 72 Hrs.	642.8 ft	(fi) /6	
11.75" asphalt s crushed stone.	shoulder on 6"	044.07	ᅴ				Very stiff, damp, gray, CLAY LOAM TILL.		8	2,4 B
SAND.	ray, fine grained	644.63		6					3	
8% passing #200) sieve.	Ā Ā		12 14		12			- 6 g	2.4 B
			-	6					-25 4	
6% passing #200) sieve.		-3	8 10		14			8 10	2.2 B
				1						
10% possing #20	00 sieve.		\dashv	15 12		12			4 6	1.3 B
			日						-	
Very stiff, damp	gray, CLAY	635.93	-10	3 6	2.4	12			-30 3 5	2.4
LOAM TILL.	3.07.		\exists	8	В		Extent of exploration.	615.13	8	В
			ᅴ	4 8	3.7	12			\exists	
			7	11	В		Benchmark: Temporary 8M or of existing North OH Sign Tru	n top uss		
			-15	3			foundation = 646.29'		-35	
			_	8	1.9 B	12		,	_	
			\dashv	3					_	
			二	4 7	1.6 B	12			\exists	
		526.13		3					-40	

COUNTY SHEETS NO. 17 16
CONTRACT NO. 46194 DESIGNED -REVISED -FILE NAME = USER NAME = \$USER\$ SECTION SOIL BORING LOG STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION REVISED -DRAWN -#FILEL# SN 7S058I072L141.4 PLOT SCALE : #SCALE# CHECKED -REVISED -CONTR.

- D7 OVD SIN STR REPL 12-21 SCALE: SHEET NO. OF SHEETS STA. TO STA. PLOT DATE = *DATE* DATE REVISED -

