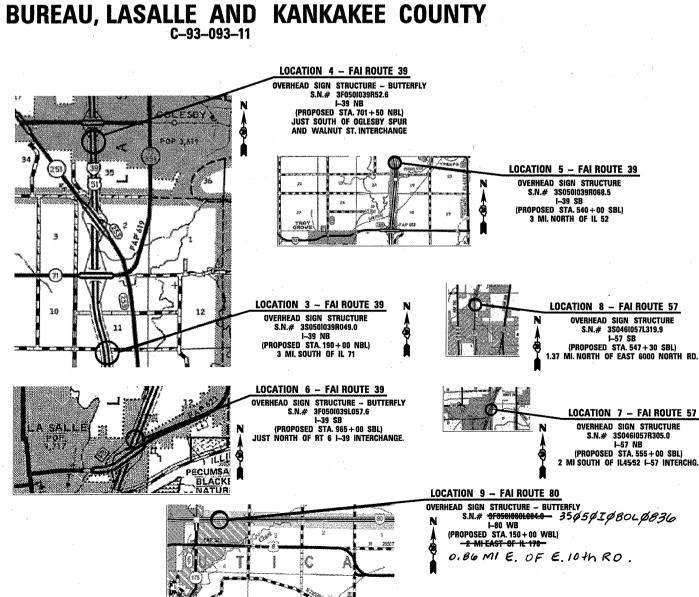


0

 $\circ$ 

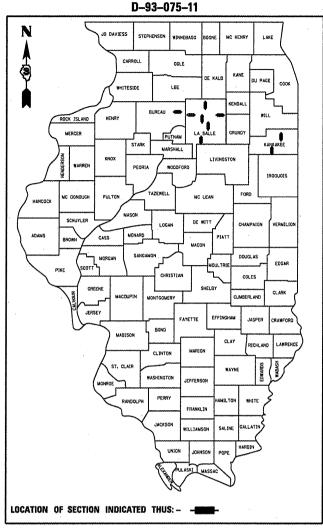
 $\circ$ 

# DEPARTMENT OF TRANSPORTATION **DIVISION OF HIGHWAYS PROPOSED HIGHWAY PLANS VARIOUS ROUTES** SECTION D3 OVD MESSAGE SG-2012





5041=51



#### FUNCTIONAL CLASSIFICATION RÙRAL - INTERSTATE

FAI ROUTE 39 EAL ROUTE 57 2011 ADT = 38500 2011 ADT = 18200 2011 ADT = 18100 P.V. = 75.71% P.V. = 68.13% P.V. = 77.66% M.U. = 18.18% M.U. = 26.92% M.U. = 17.26% S.U. = 6.10% S.U. = 4.95% S.U. = 5.08%

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION **DIVISION OF HIGHWAYS** SUBMITTED 2-24 20 12 Enc S. Therkildrenon
ENGINEER OF OPERATIONS March 23 20 12 John D. Baranzell: P.E./BL acting APPROVED March 23 20 12 William 2 From /BZ

Optime DIRECTOR DIVISION OF HIGHWAYS Jerritas

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

#### GENERAL NOTES

PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING PLANS ARE SUBJECT TO ROUTINE VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY FURNISHED BASED UPON THE UNIT BID PRICE FOR THE WORK.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE "JULIE" NUMBER IS 1-800-892-0123. A MINIMUM OF FORTY-EIGHT (48) HOURS ADVANCE NOTICE IS REQUIRED.

THE LOCATION OF ALL UTILITIES AND PRIVATELY OWNED FACILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE INSTALLATION OF ANY COMPONENTS.

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.

ELECTRICAL WORK SHALL CONFORM WITH NATIONAL, STATE, AND LOCAL CODES. THE CONTRACTOR SHALL PROVIDE ELECTRICAL CABLE SLACK IN ACCORDANCE WITH ARTICLE 873.03 UNLESS SPECIFIED OTHERWISE.

ELECTRICAL CABLE WILL BE MEASURED FOR PAYMENT IN ACCORDANCE WITH ARTICLE 873.04.

ALL SURPLUS MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATION.

THE COMMUNICATION VAULT SHALL BE CONSTRUCTED SO THAT THE TOP OF THE FRAME WILL BE FLUSH WITH THE SURFACE OF THE MEDIAN, SIDEWALK, OR GROUND LINE.

COILABLE POLYETHYLENE DUCT MAY BE SUBSTITUTED FOR UNDERGROUND CONDUIT.

POTHOLING TO LOCATE EXISTING UNDERGROUND UTILITIES SHALL BE INCLUDED IN THE CONTRACT BID PRICE FOR THE UNDERGROUND CONDUIT PAY ITEMS.

REMOVAL AND REPLACEMENT OF EXISTING SIDEWALK, PAVEMENT, AND ISLANDS FOR UTILITY LOCATING PURPOSES WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT BID PRICE FOR THE CONDUIT PAY ITEMS.

NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR PLACING CONDUIT AT GREATER THAN 2 FT. MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.

THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THIS COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICES FOR THE CONDUITS.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.

#### COMMITMENTS

ALL EXCAVATED MATERIAL SHALL REMAIN ON SITE AND BE DISPOSED OF AS DIRECTED BY THE ENGINEER.

PREPARED BY:

DISTRICT STUDIES & PLANS ENGINEER

EXAMINED BY:

DISTRICT CONSTRUCTION ENGINEER

DISTRICT MATERIALS ENGINEER

LINOIS GENERAL NOTES

SHEET NO. 1 OF 1 SHEETS STA. \_\_\_

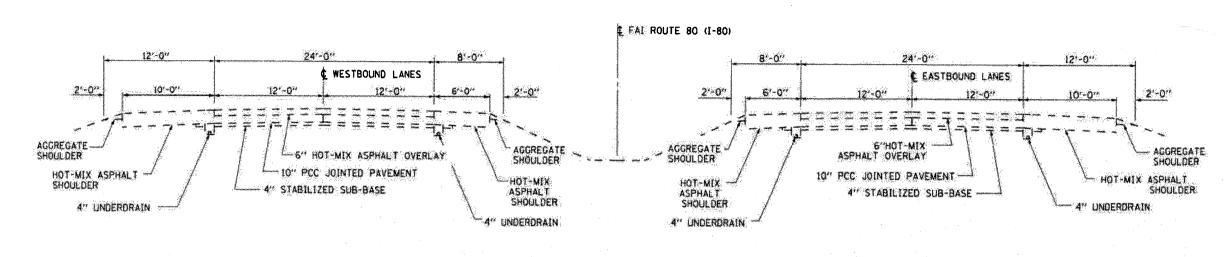
OPERATIONS ENGINEER

				CO	NSTRUCTION. CO	DE
					STATE FUNDS 100% STATE	
				BUREAU	LASALLE	KANKAKEE
			,	STRUCTURE	STRUCTURE	STRUCTURE
CODE			TOTAL	0040	0040	0040
NO.	ITEM	UNIT	QUANTITY	RURAL	RURAL	RURAL
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A. 6 FOOT POSTS	FOOT	4492	766	2730	996
63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	18	3	12	
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH :	18	3	12	3
<i>5330200</i> 0 78200410	REMOVE AND REERECT TRAFFIC BARBIER TERMINALS, TYPE 2 GUARDRAIL MARKERS, TYPE A	EACH EACH	<u>2</u> 58	9	36	<b>Z</b>
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	18	3	12	3
67100100	MOBILIZATION	L SUM	1	0.13	0,63	0.23
73300300	OVERHEAD SIGN STRUCTURE - SPAN, TYPE III-A (5'-0" X 7'0")	FOOT	384	<u> </u>	192	128
73301805	OVERHEAD SIGN STRUCTURE - BUTTERFLY, TYPE III-F-A	FOOT	116		116	
73301810	OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	FOOT	186	31	93	62
73301900	OVERHEAD SIGN STRUCTURE WALKWAY - BUTTERFLY, TYPE A	FOOT	12		12	
73400200	DRILLED SHAFT CONCRETE FOUNDATION	CU YD	149.3	20.9	90.6	37.8
80400100	ELECTRIC SERVICE INSTALL	EACH	9	. 1	6	2
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	775	84	527	164
81023870	UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	90	10	60	20
81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	4530	496	3068	966
86200200	UNINTERRUPTABLE POWER SUPPLY, STANDARD	EACH	1		1	
X0323920	POLE MOUNTED EQUIPMENT CABINET, TYPE B	EACH	9	1	6	2
X0323923	SUPPORT EQUIPMENT AND MAINTENANCE	L SUM	1	0.33	0,33	0.33
X0325485	TRUSS MOUNTED LED DYNAMIC MESSAGE SIGN	EACH	9	1	6	2
X0325922	CELLULAR MODEM	EACH	9	1	6	2
x0326253	LCD MONITOR	EACH	4		4	
X0326254	LAPTOP COMPUTER	EACH	. 1		1	
x0326255	APPLICATION SERVER	EACH	1	*	1	
X0326263	EQUIPMENT CABINET	EACH	1		1	
X0326880	MESSAGE BOARD VEHICLE DRIVER	HOUR	1080	120	720	240
x0326905	CLOSED-CIRCUIT TELEVISION DOME CAMERA, IP BASED	EACH	9	1	6	2
x0326906	CLOSED CIRCUIT TELEVISION DOME CAMERA, IP BASED (MATERIAL ONLY)	EACH			2	,
X0326907	PORTABLE, VEHICLE MOUNTED, CHANGEABLE MESSAGE SIGN	CAL MO	4.5	0.5	· 3	ì
Z0033052	COMMUNICATIONS VAULT	EACH	9	1	6	. 2
X0327387	ELECTRICAL WORK, IDOT DISTRICT 3 HEADQUARTERS	L SUM	1		1	

İ	FILE NAME =	USER NAME = patelyj	DESIGNED -	REVISED	-	
	c:\pw_work\pwidot\patelyj\d0250292\D3666	28-sht-details.DGN	DRAWN ~	REVISED	-	
		PLOT SCALE = 99.9999 '/ in.	CHECKED -	REVISED	-	
-	·	PLOT DATE = 2/24/2012	DATE -	REVISED	-	

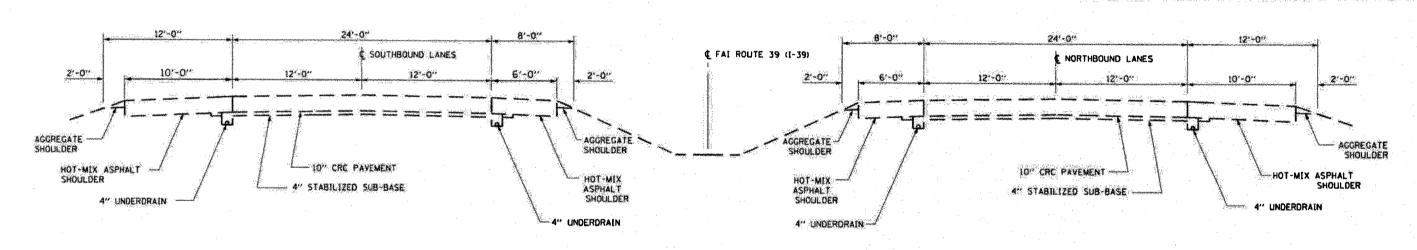
SUN	AMN	RY	0F	QUANT	ITIES	RTE VAR
	SHEET NO.	1 OF 1	SHEETS	STA.	TO STA.	<del> </del>

			ı	Rev.	
	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEE	ī
1	VAR	D3 OVD MESSAGE SG - 2012	VAR	59 3	~
_			CONTRAC	T NO. 6682	8
					_



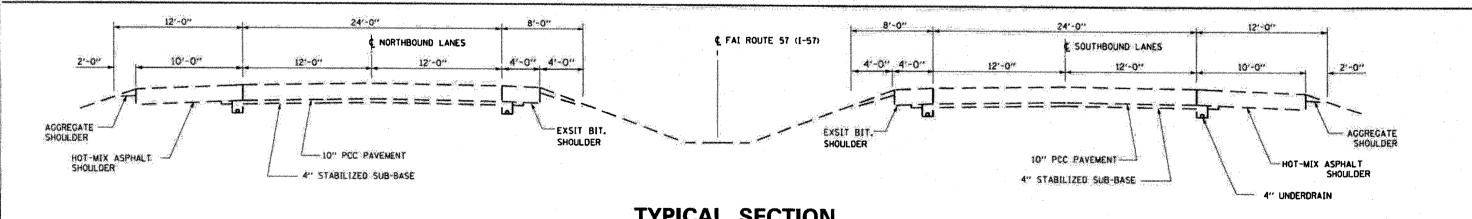
### TYPICAL SECTION

FAI ROUTE 80 (I-80)



### TYPICAL SECTION

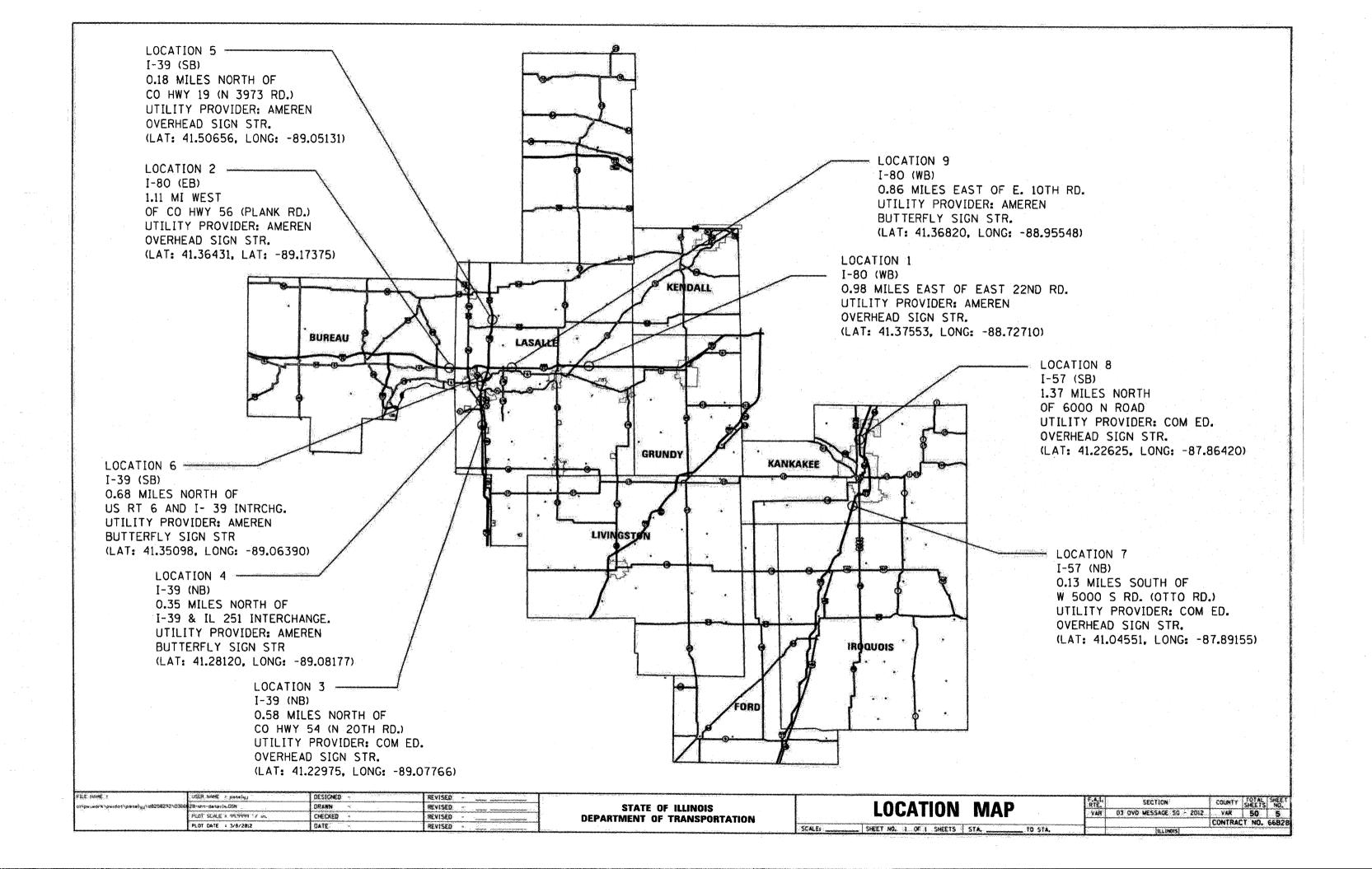
FAI ROUTE 39 (1-39)

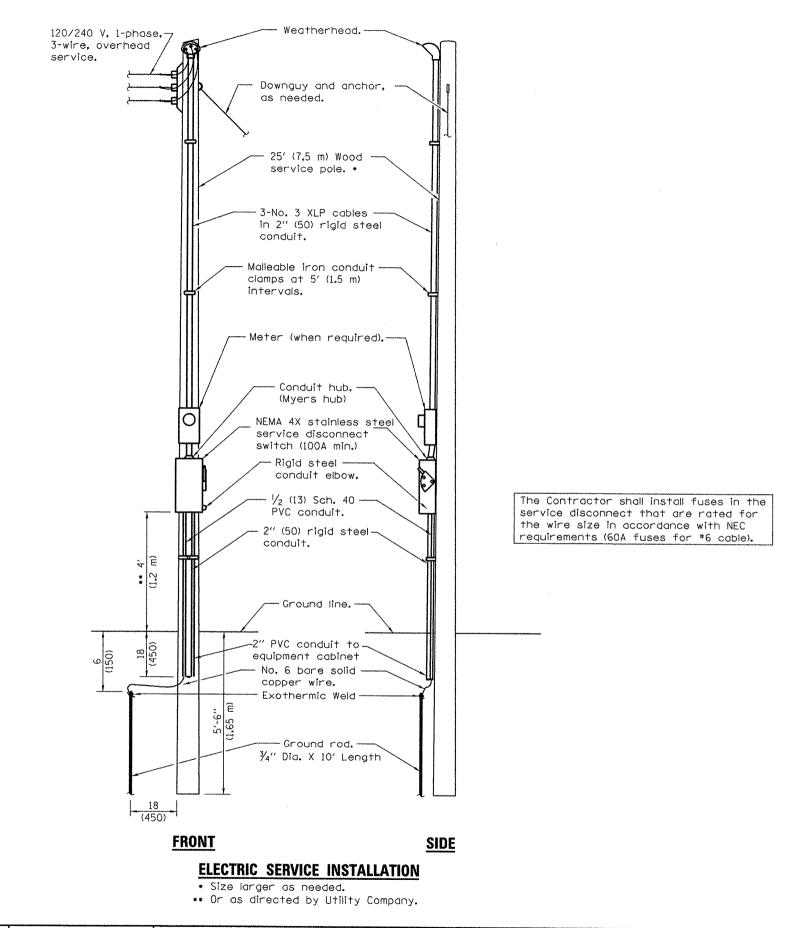


### TYPICAL SECTION

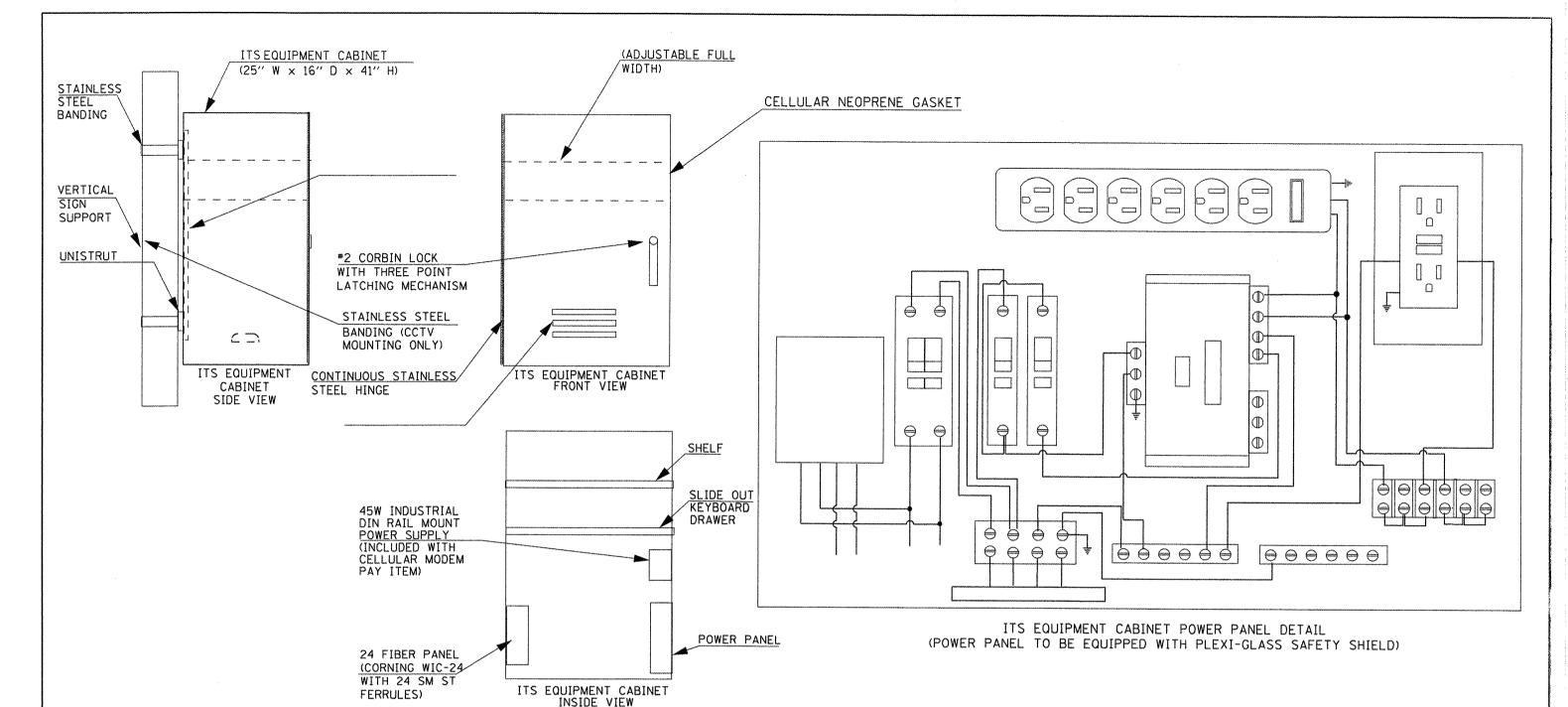
FAI ROUTE 57 (I-57)

1	USER MAPE: pasalog	DESIGNED -	MEVISED -	700 an annual management of the control of the cont		TEAP SECTION COUNTY LIQUAL SHEET
1	a a color	ORAWN -	HEVISEO +	STATE OF ILLINOIS	TYPICAL SECTIONS	ALC:
- 1	PLOT SCALE = 99,9999 1/ 10.	CHECKED .	TREVISED -	DEPARTMENT OF TRANSPORTATION	I II IOWE SECTIONS	VAR D3 OVO MESSAGE SG - 2012 VAR   50   4
I	PLOT DATE = 3/8/2012	DATE	REVISED *	DELANTMENT OF TRANSPORTATION	SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.	CONTRACT NO. 66828
macanisi hang	**************************************	•	1		13342 W 1 W 1 SREET 378 70 378	(CLINOIS





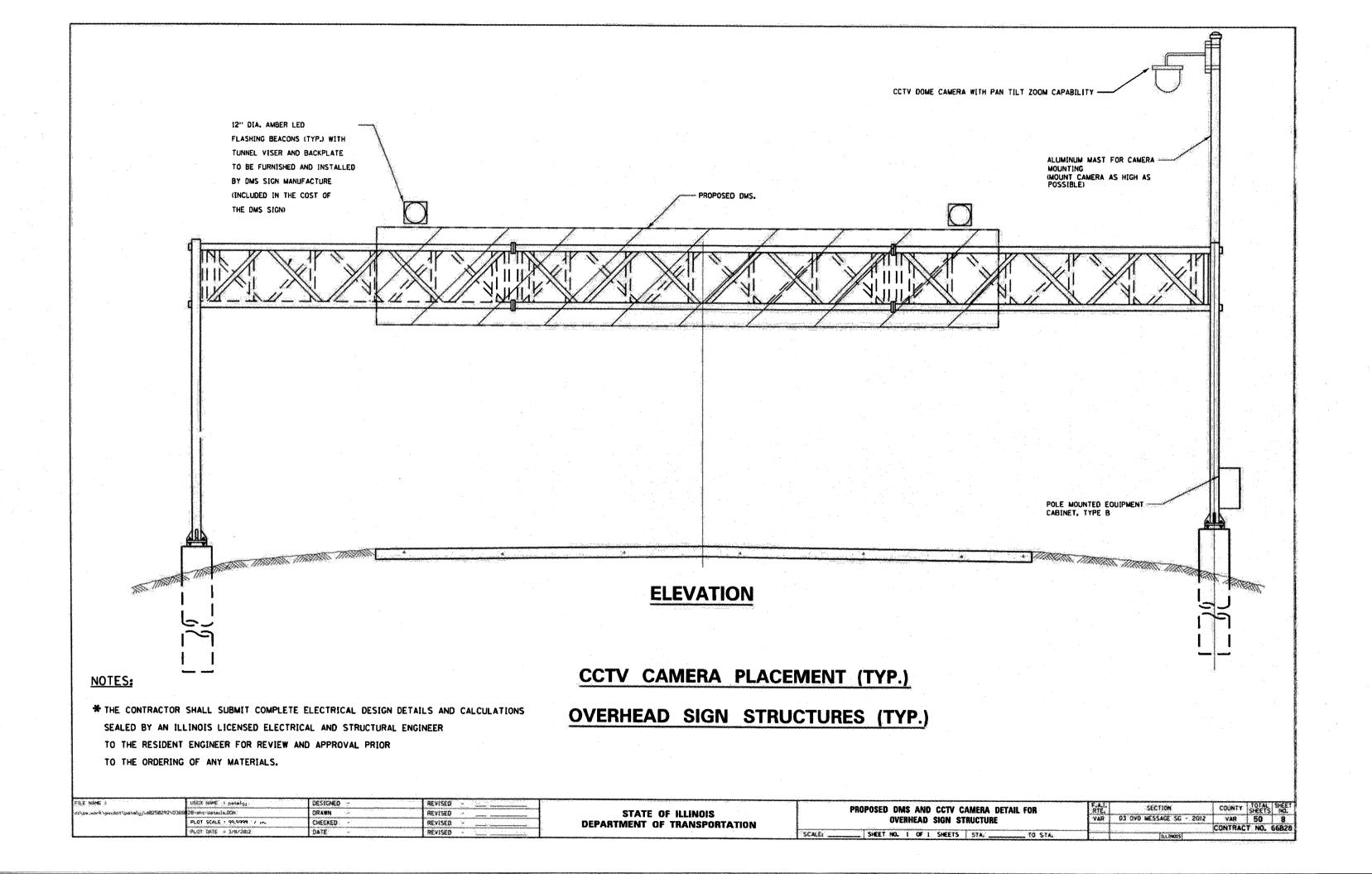
CI\PW.WORK\PWIGOT\POTELIJ\\0007\0007\POTELIJ\\0007\0007\POTELIJ\\0007\POTELIJ\\0007\POTE\POTE\POTE\POTE\POTE\POTE\POT\POT\POT\POT\POT\POT\POT\POT\POT\POT	ELECTRIC SERVICE INSTALLATION DETAIL	VAR D3 OVD MESSAGE SG - 2012 VAR 50 6
PLOT DATE = 2/23/2012 DATE - REVISED - SCALE.	F: SHEET NO. X OF X SHEETS STA TO STA	CONTRACT NO. 66B28

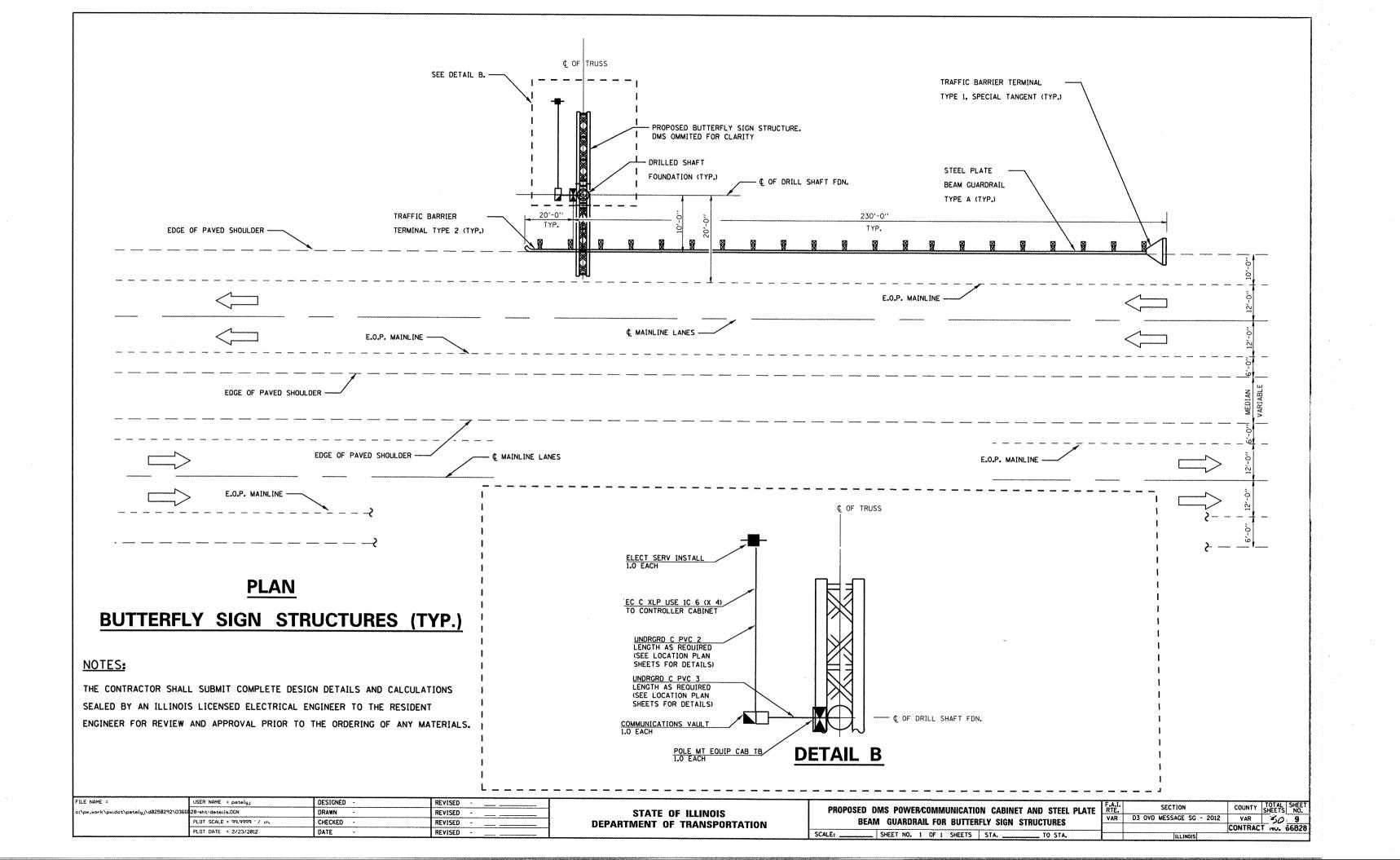


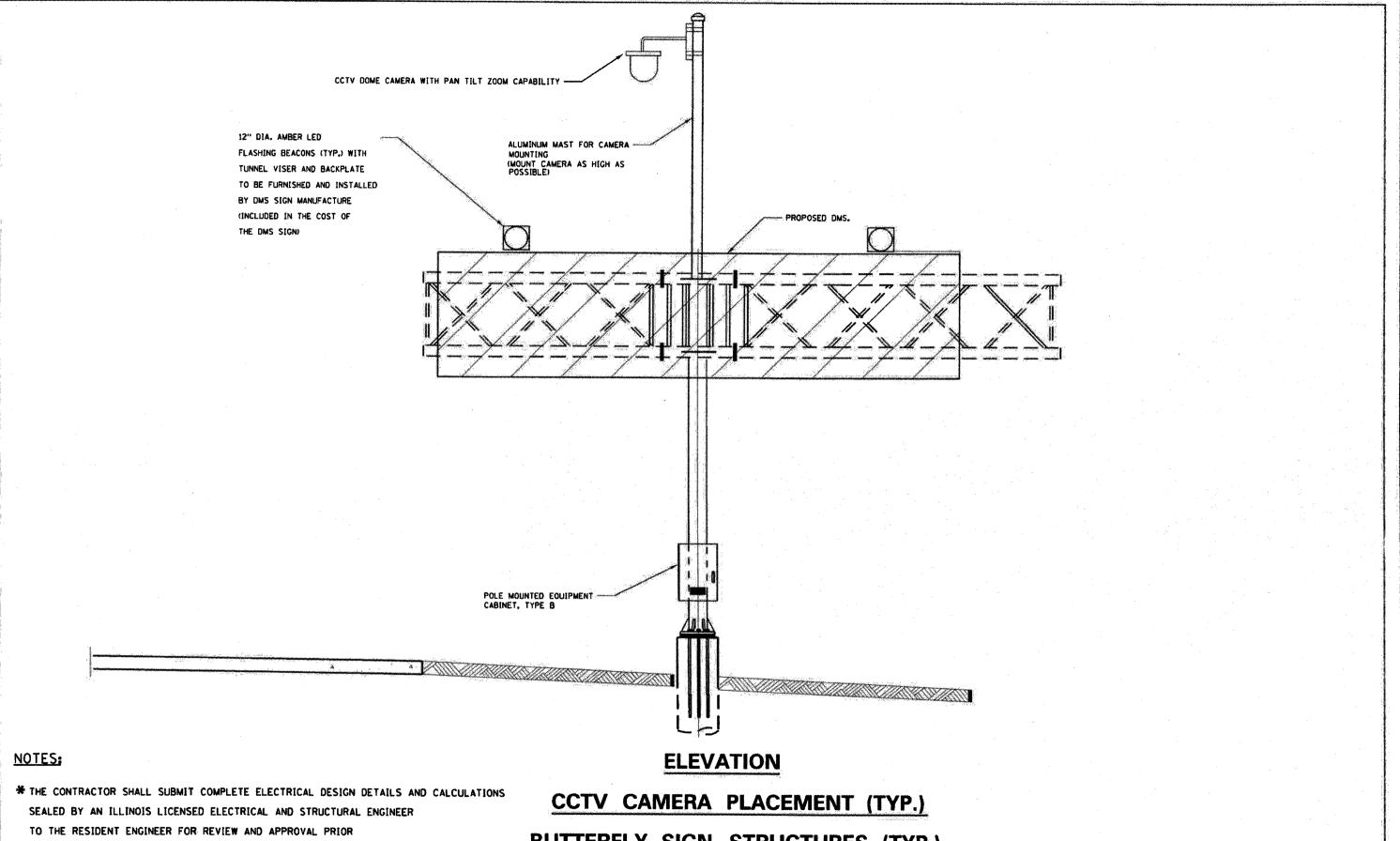
#### NOTES

- 1. THE ITS EQUIPMENT CABINET SHALL BE A NEMA TYPE 3R CABINET WITH MINIMUM OUTSIDE DIMENSIONS OF 41" (H) X 25" (W) X 16" (D). THE CABINET SHALL BE CONSTRUCTED FROM .125" THICK ALUMINUM AND HAVE A NATURAL FINISH.
- 2. THE CABINET SHALL BE FURNISHED WITH ONE ADJUSTABLE HEIGHT SHELF, THREE POSITION DOOR STOP
  (90, 120, 180 DEGREES), NEOPRENE DOOR GASKET, AIR VENT LOUVERS, CONTINUOUS STAINLESS STEEL DOOR HINGE,
  INTERIOR STIFFENERS FOR MOUNTING, THREE POINT LATCHING MECHANISM WITH #2 CORBIN LOCK, 24 FIBER
  INTERCONNECT CENTER, POWER PANEL, AND ALL STAINLESS STEEL HARDWARE.
- 3. THE CABINET SHALL BE EQUIPPED WITH A THERMOSTATICALLY CONTROLLED VENTILATION FAN, 250 WATT HEATER STRIP (WITH GUARD), AND DELUXE PLEATED AIR FILTER.
- 4. THE CABINET SHALL BE EQUIPPED WITH A SLIDE OUT KEYBOARD TRAY WITH INTEGRATED DOCUMENT STORAGE DRAWER.
- 5. THE CONTRACTOR SHALL INSTALL ALL DIN RAIL MOUNTED EQUIPMENT IN THE CABINET.
- 6. THE CONTRACTOR SHALL INSTALL A 48" X 48" CONCRETE STAND PAD AT EACH CABINET LOCATION. THE COST OF THE STANDPAD SHALL BE INCLUDED IN THE COST OF THE CABINET.

FILE NAME =	USER NAME = patelyj	DESIGNED -	REVISED -			TF.A.I.	TOTAL SHEET	Á
c:\pw_work\pwidot\patelyj\d0250292\D3666	28~sht-details.DGN	DRAWN -	REVISED -	 STATE OF ILLINOIS	POLE MOUNTED EQUIPMENT CABINET, TYPE B DETAIL	RTE.	SECTION COUNTY SHEETS NO.	i i
	PLOT SCALE = 99,9999 ' / in.	CHECKED -	REVISED	 DEPARTMENT OF TRANSPORTATION	TOWN MODITION MODIFICATION OF THE DELINIE	VAR	03 OVD MESSAGE SG - 2012   VAR   50 7	é
	PLOT DATE = 2/23/2012	DATE -	REVISED		SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.	╂┼	CONTRACT NO. 66B28	į i
							ILLINOIS	é i



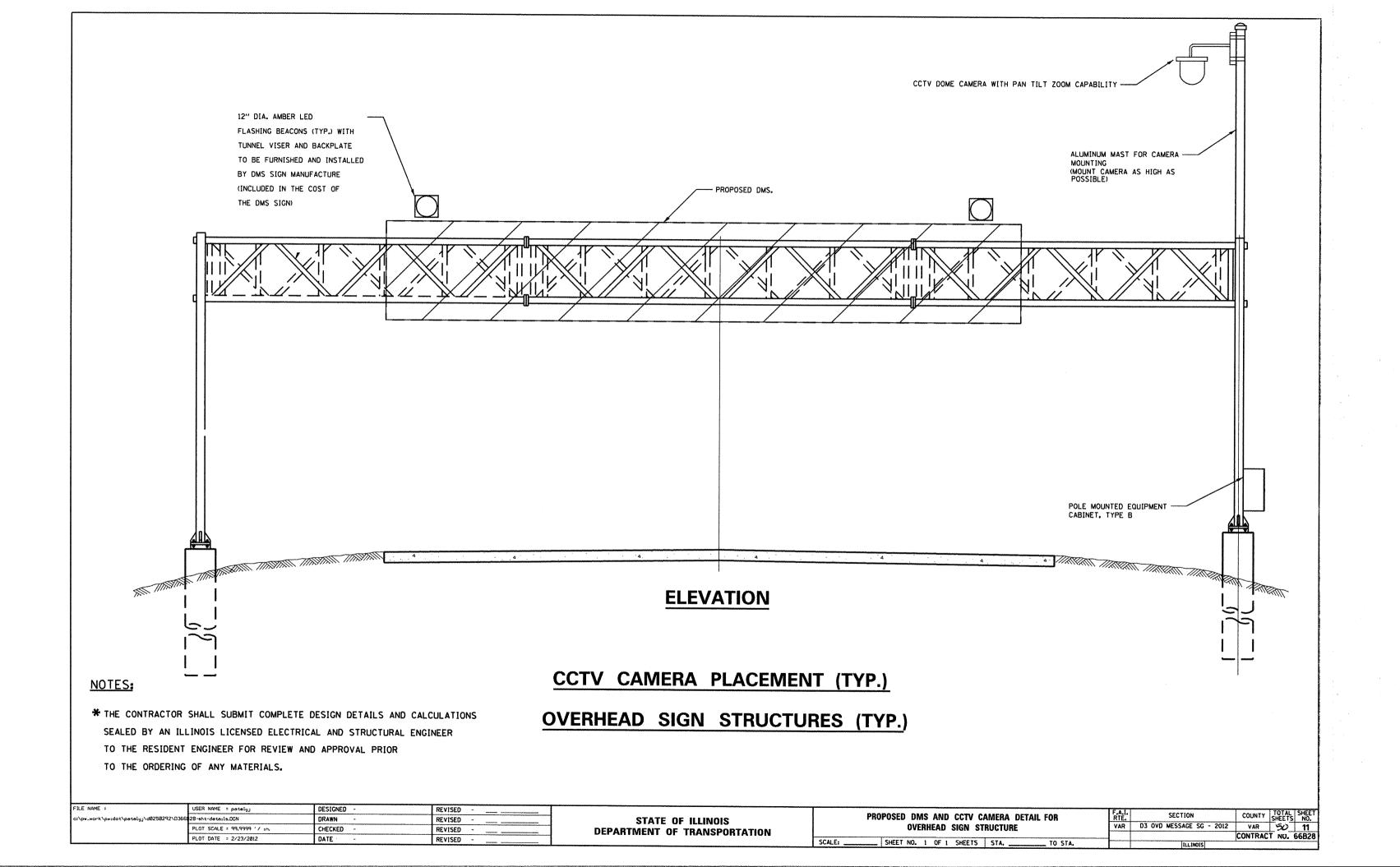


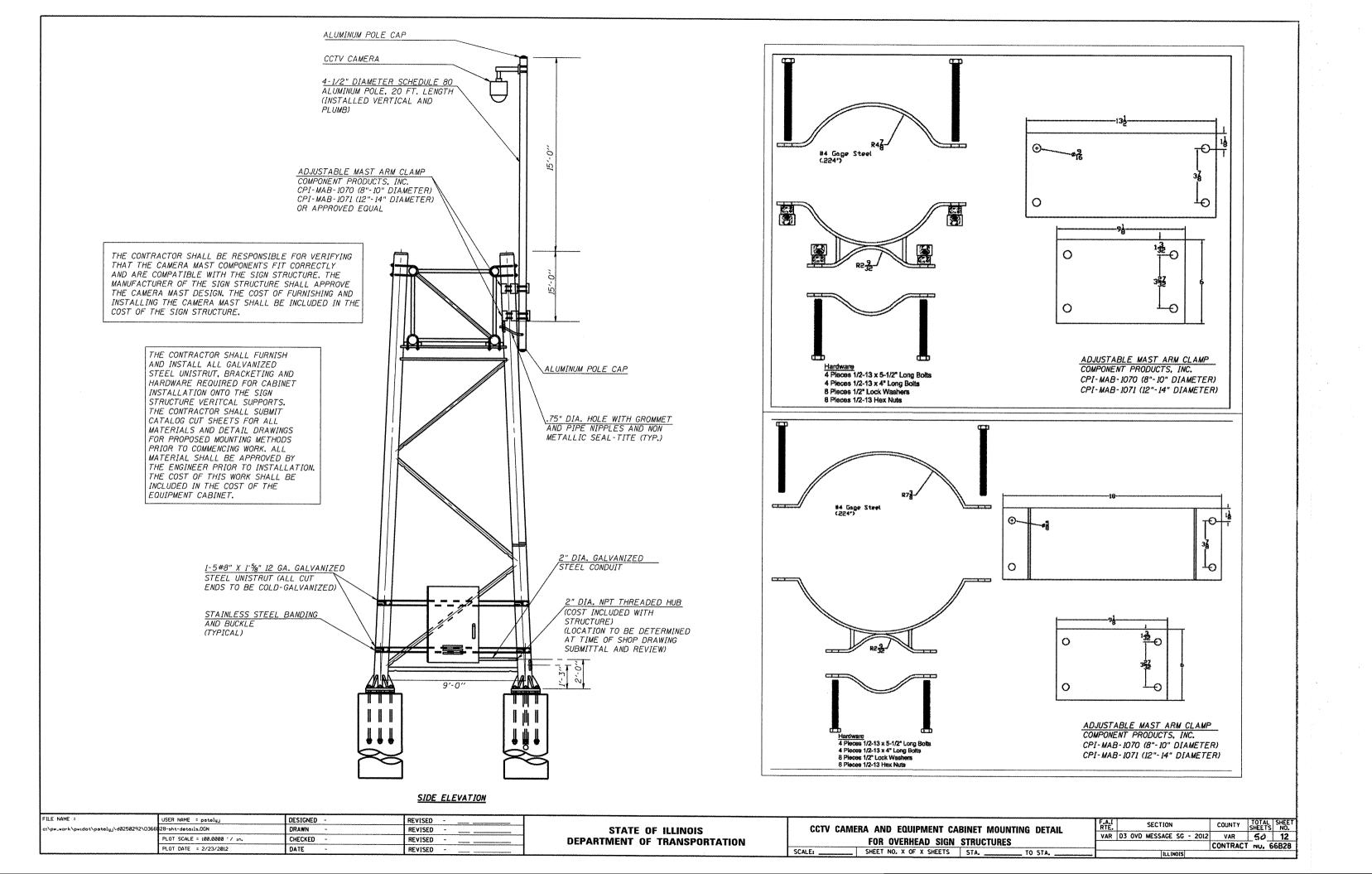


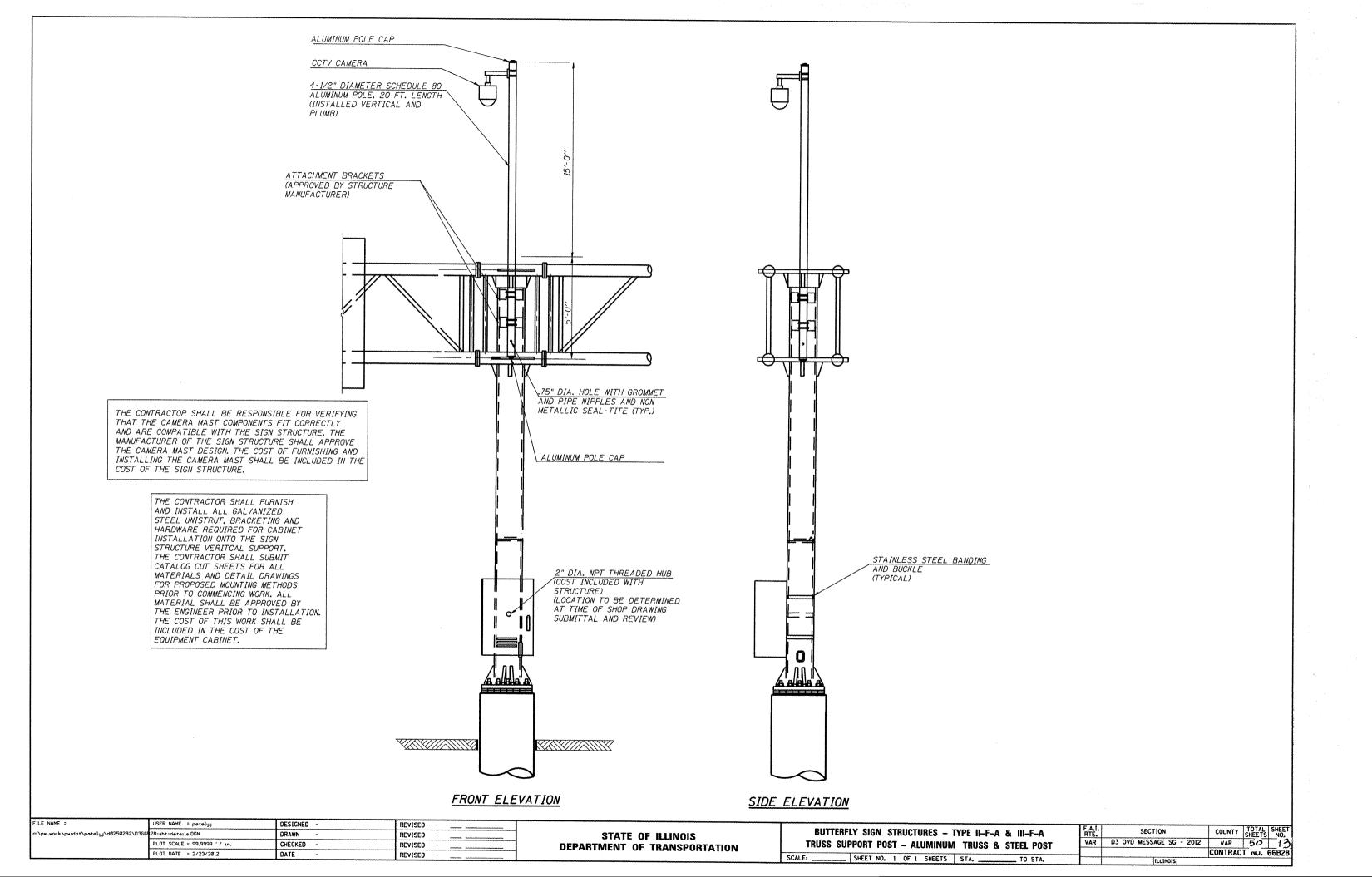
TO THE ORDERING OF ANY MATERIALS.

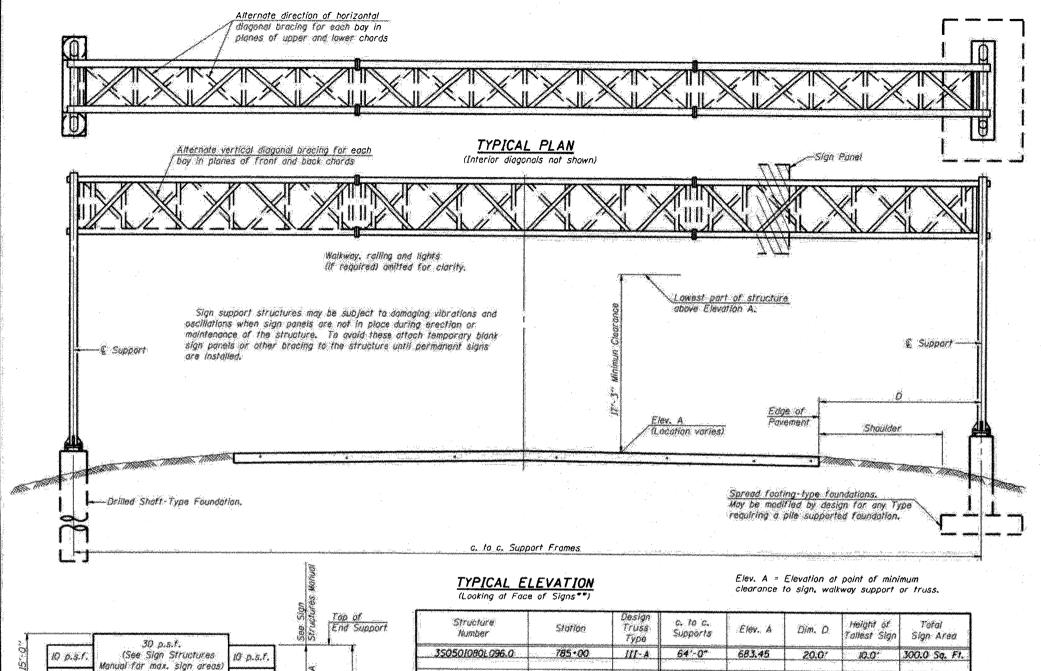
**BUTTERFLY SIGN STRUCTURES (TYP.)** 

FILE NAME 1	(AER NAME : pasaig)	DESIGNED -	REVISED -			SECTION COUNTY LOTAL SHEET
c:\ps.work\psidot\petely;\08258292\0366	28-aht-dete;la.DCM	ORAWN -	REVISED *	STATE OF ILLINOIS	THO DOES ONG AIRD OUT VANIETA DETAIL FOR	
	PED? SCALÉ + 48,4449 ° / IN.	CHECKED -	REVISEO +	DEPARTMENT OF TRANSPORTATION	BUTTERFLY TRUSS SIGN STRUCTURE	VAR 03 0V0 MESSAGE SG 2012 VAR 50 10 CONTRACT NO. 66828
	PLOT DATE = 3/8/2012	DATE	REVISED -		SCALES SHEET NO. 1 OF 1 SHEETS   STA TO STA.	CONTRACT NO. 89828









Structure Number	Station	Design Truss Type	c. to c. Supports	Elev., A	Dim. D	Height of Tallest Sign	Tetal Sign Area
350501080L096.0	785+00	III:A	64'-0"	683,45	20.07	10.0	300.0 Sq. F1.
3S0061080R072.5	437:50	III:A	647-0*	654.59	20.0′	10.0	300.0 Sq. F1.
350501039R049.0	190+00	III-A	64°:0°	675.68	20.01	10.0	300.0 Sq. F1.
3505010391.068.5	540+00	III-A	64'-0"	670.92	20.0	10.01	300,0 Sq. F1.
350461057R305.0	555+00	III-A	64'-0"	634,24	20.01	<u> </u>	300.0 Sq. F1.
JS0461057LJ19.9	547+30	111-8	64'-0"	660,73	20.01	10.0	300.0 Sq. Ft.

<sup>\*\*</sup>Looking upstation for structures with signs both sides.

#### <u>GENERAL NOTES</u>

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'6 = 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 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 gavanized 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 ball 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 nylan 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 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

NATIONE AN CION STRUCTURE SOME TYPE I.A	+ 334	- X
OVERHEAD SIGN STRUCTURE SPAN TYPE II A	Foot	
OVERHEAD SIGN STRUCTURE SPAN TYPE III-A	Foot	384
OVERHEAD SIGN STRUCTURE WALKWAY TYPE A:	Foot	186
CONCRETE FOUNDATIONS	Cu. Yds.	
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yas.	121

05-A-1

analysis for all components.

1-20-11

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

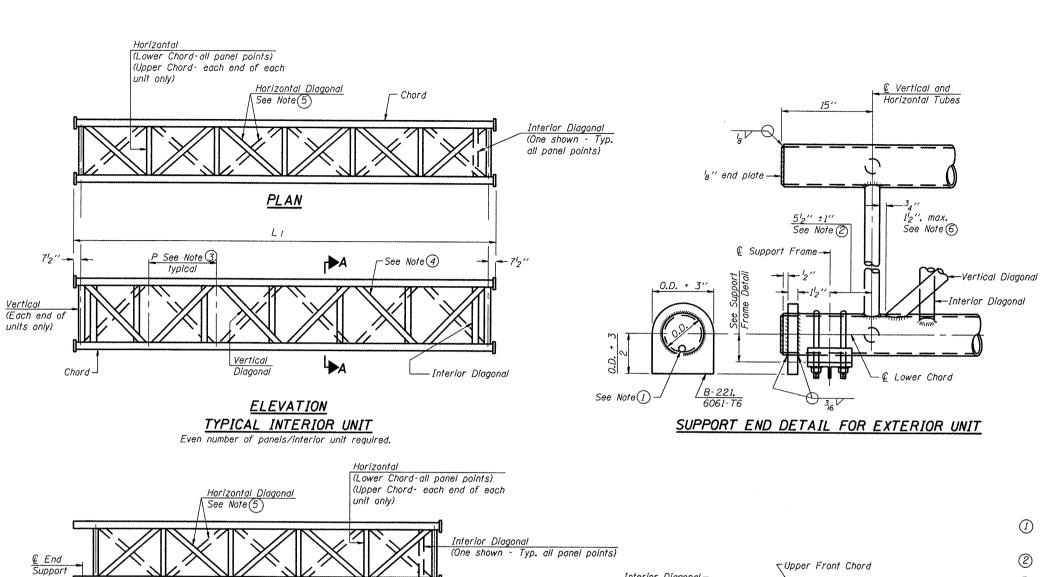
			and the second s
FILE NAME 3	USER NAME = pately;	DESIGNED - YOGESH PATEL	REVISED -
o.^p=.==*/p=:dox/p=:=ly;/d8298292/0366	28 - et deterit DIM	DRAWN - YOGESH PATEL	ALVISED *
	ALDE SCALE + 99,4499 17 in.	CHECKED - RON WOODSHANK	PEVISED
	PLOF DATE + 3/8/28Q	DATE	REVISED -

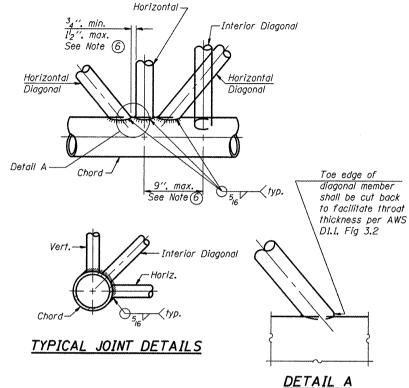
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

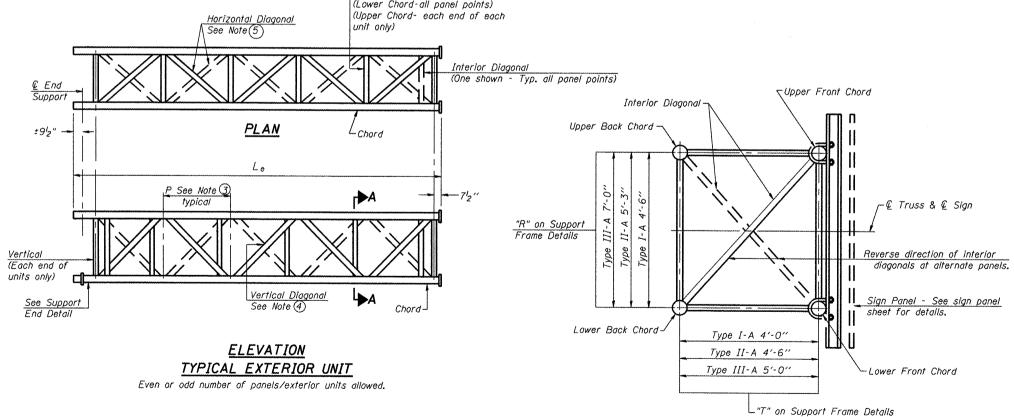
OVERHEAD SIGN STRUCTURES - GENERAL PLAN &
ELEVATION - ALUMINUM TRUSS & STEEL SUPPORTS

LE: \_\_\_\_\_\_ | SHEET NO, 1 OF 1 SHEETS | STA, \_\_\_\_\_\_ TO

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.







- Contractor may alternatively use standard aluminum drive-fit cap to close end.  $l_2$ "  $\phi$  drain hole in end plate/drive-fit cap. (Typ. at ends of all chords)
- $\bigcirc$  5½" end dimension may vary by ±1" to provide uniform panel spacing (P).
- (3) Panel spacing (P) shall be uniform for entire truss and between 4'-0" and 5'-0" for Type I-A or 4'-0" and 5'-6" for Types II-A and III-A.
- 4) Vertical Diagonals in front and back face shall alternate.
- (5) Hidden lines show wind bracing alternates direction between planes of top and bottom chords.
- 6 All diagonals shall be detailed for minimum offset from the panel point based on the following: Offset shall be such as to provide a <sup>3</sup>/<sub>4</sub>" minimum to 1½" maximum clearance between any diagonal and any horizontal or vertical member, and to provide clearance for U-bolt connections of signs or walkway brackets.

SECTION A-A

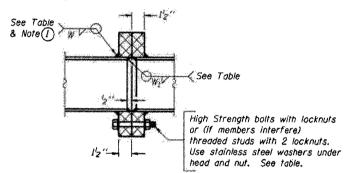
0S-A-2

1-20-11

FILE NAME =	USER NAME = patelyj	DESIGNED -	REVISED -		OVERVIEUR AND CONTRACTOR OF THE CONTRACTOR OF TH	F.A.I. SECTION COUNTY TOTAL SHE
c:\pw_work\pwidot\patelyj\d0250292\D3666	28-sht-details.DGN	DRAWN -	REVISED	STATE OF ILLINOIS	OVERHEAD SIGN STRUCTURES – ALUMINUM TRUSS	RIE. SHEETS NO
1	PLOT SCALE = 99.9999 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	DETAILS FOR TRUSS TYPES 1-A, II-A AND III-A	VAR DS OVE MESSAGE SG ZOIZ VAR 29
	PLOT DATE = 2/23/2012	DATE	REVISED -		SCALE: SHEET NO. 1 OF 1 SHEETS STA TO STA.	CONTRACT NO. 66B
					L STAR STAR STAR STAR STAR STAR STAR STAR	ILLINOIS

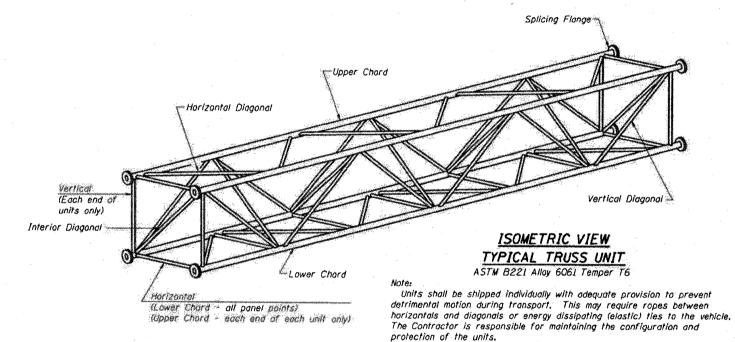
#### TRUSS UNIT TABLE

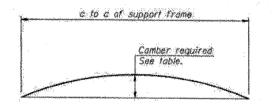
Structure		Design Truss	Exte	rior Units	(2)		Interio	r Unit		88	& Lower		zontals: Vertical,	Camber			Splicing	Flange	·	**************************************
Number	Station	Type	No. Panels per Unit	Unit Lath.(L.)	Panei Lath.(P)	No. Reg'd.	No. Panels per Unit	Unit Lath.(Li	Panel Lath.(P)		ord Wall	Horizontal, and	Interior Diagonals	at Midspan	Boll No./Splice	***************************************	Weld W	Sizas W.	A	В
350501080L096.0	785+00	111-A	7	32'-912"	4'-5"	0	5.7	+ *	7.7	7*	56"	3/4"	36°	0.77*	100.7 Splice 6	1310. [*	7 <sub>16</sub> **	5 <sub>16</sub> "	112"	/5"
350061080R072.5	437+50	III-A	7	32'-9'2"	4'-5'	Q	4.5:	*.*		7*	56*		5,*	0.77"	6	Į*	7,5**	5,6"	11'2"	<i>1</i> 5"
3\$0501039R049.0	190+00	111-A	7	32'-9'2"	4'-5'	0		**	**	7"	3/6"		3.*	0.77"	6	1*	7,6*	5 <sub>6</sub> *	112"	15*
3505010391.068.5	540+00	][[·A	7	32'-9'2"	4′-5*	0	**	**	**	7"	3,6	34"		0.77*	6	1"	7, * 16*	5 <sub>16</sub> "	Il'2"	15"
350461057R305.0	555+00	/// A	7	321-912"	4'-5*	0	**			7*	56		16"	0.77"	6	7*	76"	<sup>5</sup> 6 "	11/2*	<i>1</i> 5°
350461057L319.9	547+30	III-A	7	32'-9'2"	4'-5"	0			***	7*	56"	3.7	5 <sub>44</sub>	0.77"	6	1"	7,	5 <sub>e</sub> "	11/2*	15*



#### 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 digament 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.

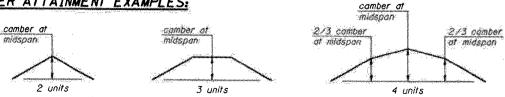




CAMBER DIAGRAM

Comber 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

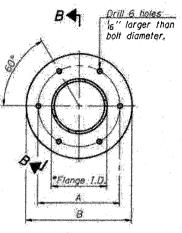
1-20-11

***************************************			**************************************	***************************************
File water :	USER NOME + passalgy	DESIGNED -	YOCESH PATEL	REVISEO 4
d:/pw.adr4/pwidot/patelg/d825827210366	20-eht-petath.XX	DRAWN -	YOGESH PATEL	REVISED -
:	PLOT SCALE = 99,9999 1/ to.	CHECKED -	RON WOODSHANK	REVISED .
	PLOT DATE = 3/8/2012	DATE -	***************************************	MEVISED

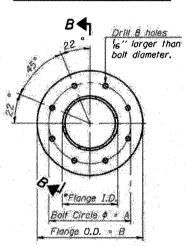
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

-	OVERHEAD	SIGN	STRU	TURES	- ALUM	INUM	TRUSS	DETAILS
-		FOR 1	russ	TYPES	I-A, II-A	AND	III-A	
	SCALE:	5	HEET NO	. I OF	I SHEETS	STA		TO 51A.

	in.	SECTION	COUNTY	SHEETS	SHEET NO.
£,	VAR	D3 OVO MESSAGE SG - 2012	VAR	50	16
			CONTRACT	NO. 6	6828
	Casania annua d	A Newson 1			

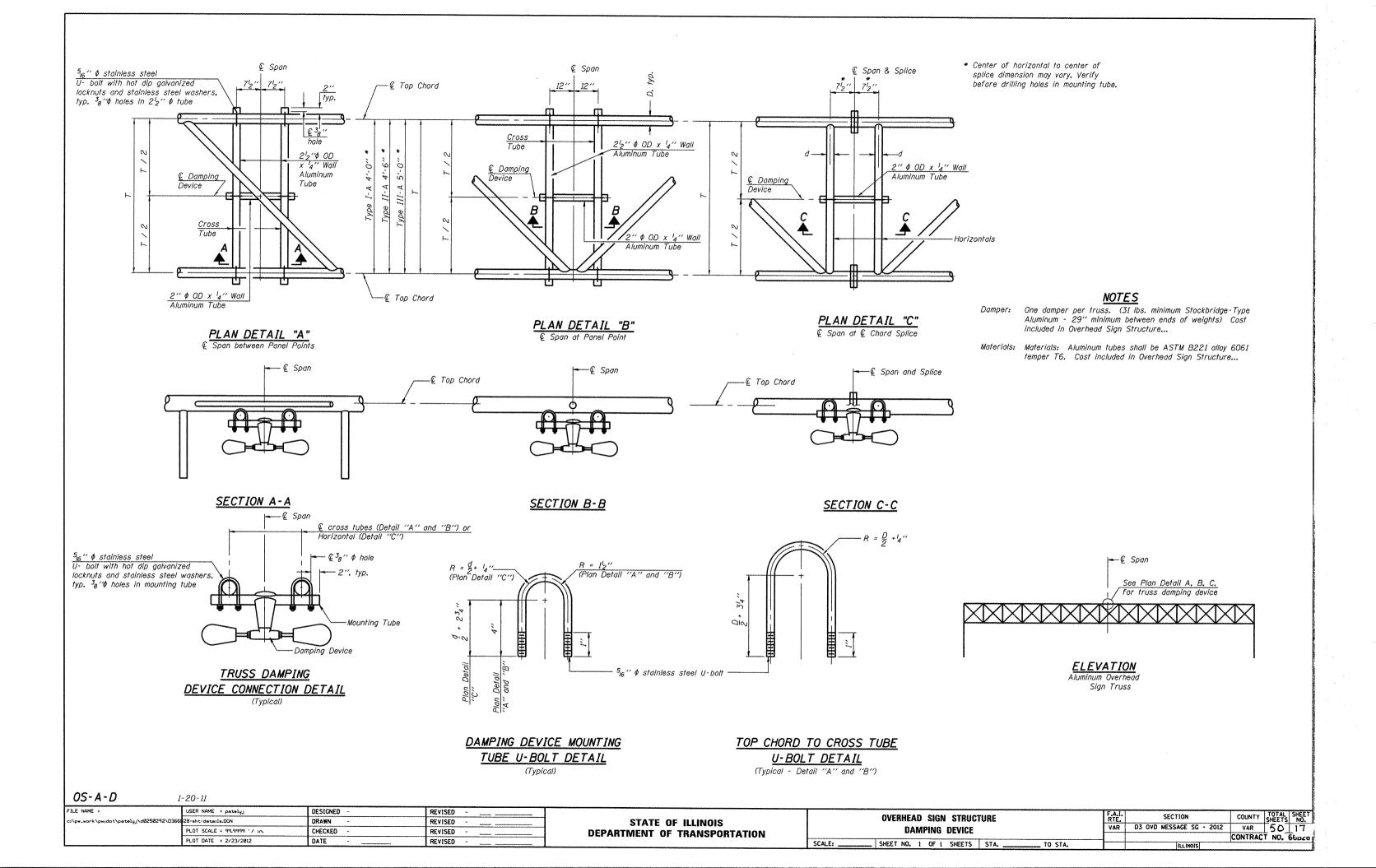


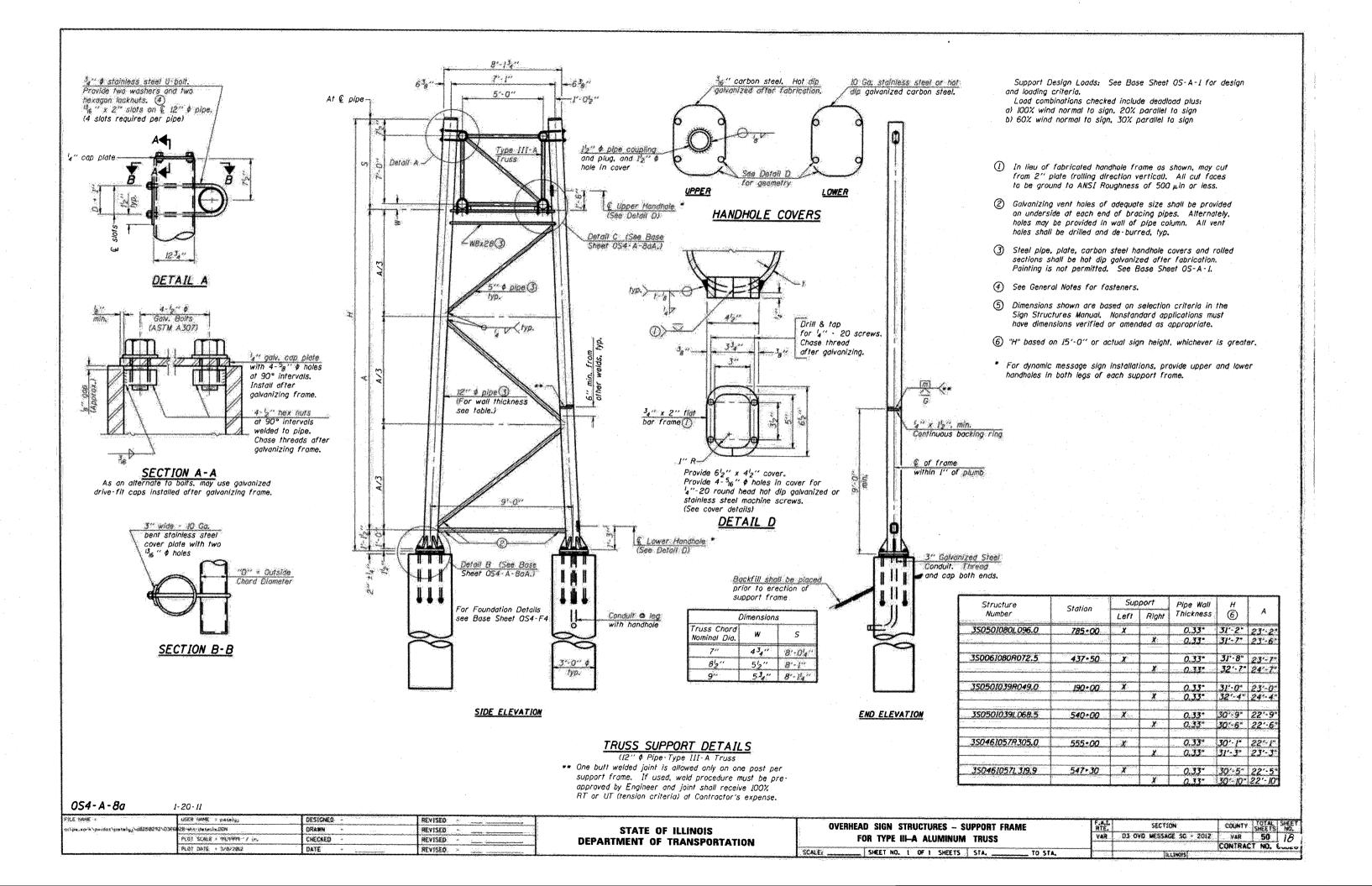
#### TRUSS TYPES I-A, II-A, & III-A

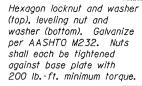


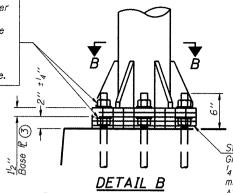
#### TRUSS TYPES II-A & III-A SPLICING FLANGES

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



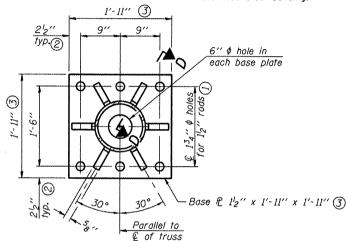




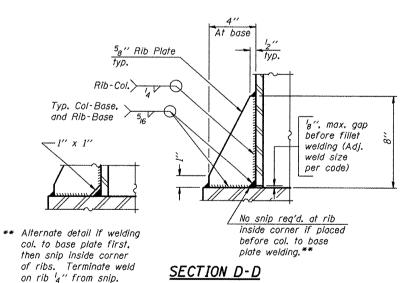


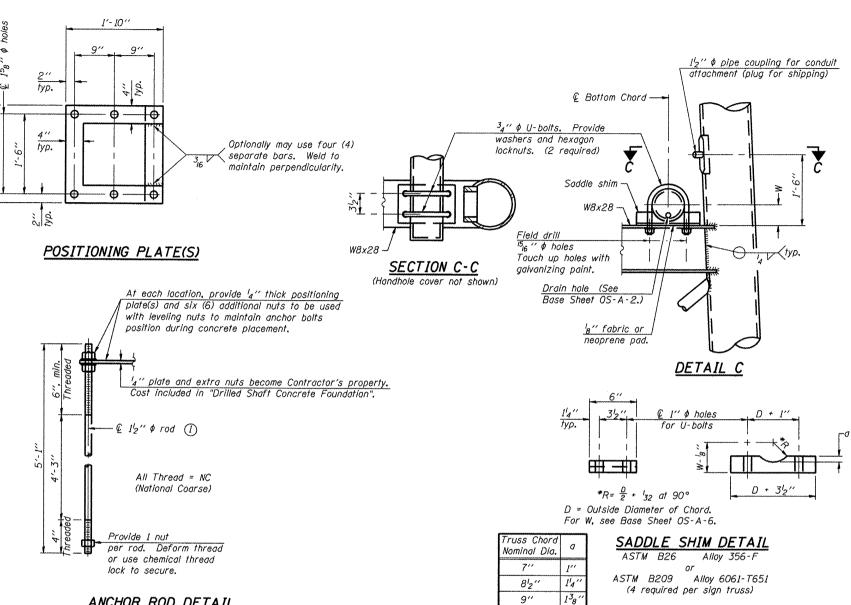
Ribs shall be cut to fit slope of pipe.

Stainless Steel Standard Grade Wire Cloth, 3" wide, 14" maximum opening with a minimum wire diameter of AWG. No. 16 with a minimum 2" lap. Secure to base plate after erection with 34" stainless steel banding.



#### SECTION B-B





#### 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" • PIPE SUPPORT FRAME DETAILS

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

#### 054-A-8aA

1-20-11

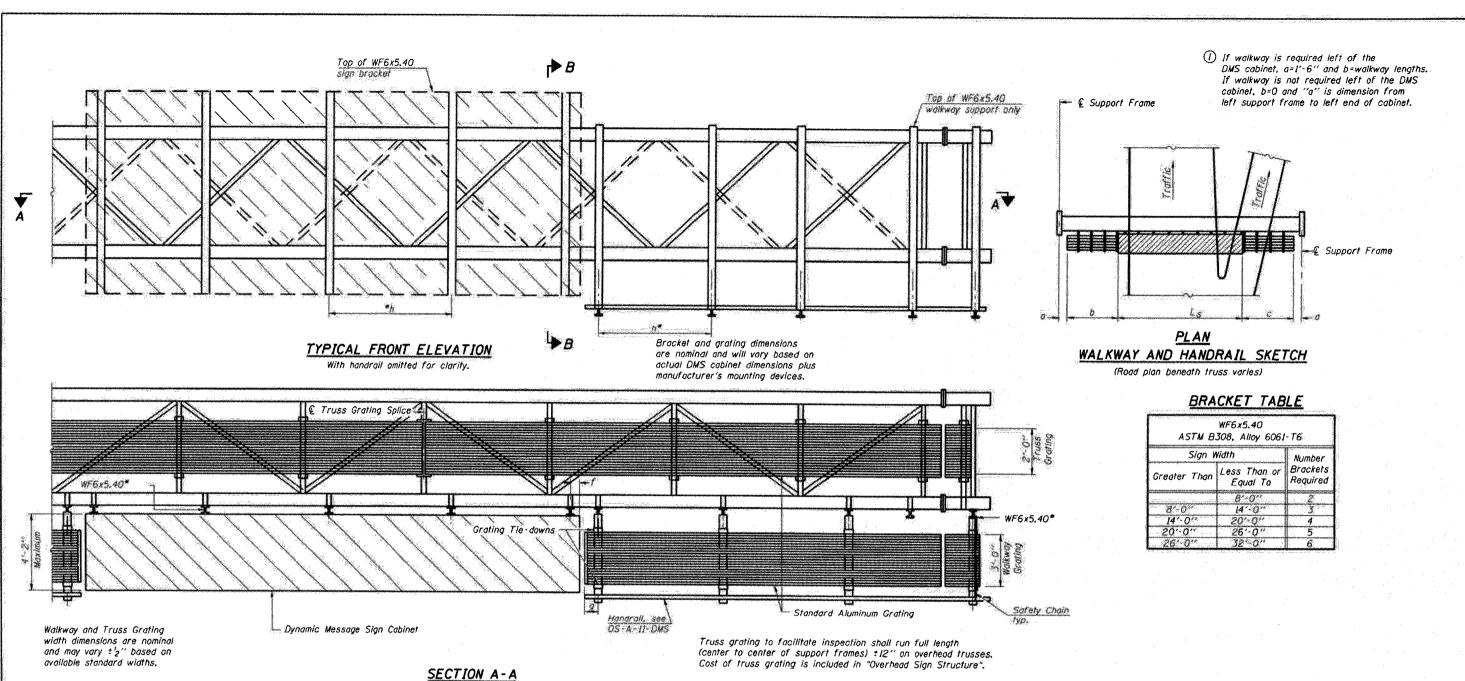
FILE NAME =	USER NAME = petelyj	DESIGNED -	REVISED
c:\pw_work\pwidot\patelyj\d0250292\D3666	28-sht-details,DGN	DRAWN -	REVISED
	PLOT SCALE = 99,9999 '/ in.	CHECKED -	REVISED
	PLOT DATE = 2/23/2012	DATE -	DEVICED

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

SCALE:

OVERHEAD SIGN STRUCTURES	F.A.I. RTE.	SECTION	COUNTY TOTAL SHEET
SUPPORT FRAME FOR TYPE III-A ALUMINUM TRUSS	VAR	D3 OVD MESSAGE SG - 2012	VAR 50 19
			CONTRACT NO. 66B28
ALE: SHEET NO. 1 OF 1 SHEETS STA TO STA.		ILLINOIS	

- (1) 134" \$\phi\$ rod. 2" \$\phi\$ holes
- $\bigcirc$  2 $^{3}$ 4" edge distance
- ③ Base P 158" x 1'-11'2" x 1'-11'2"



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. Grating and handrail splices placed as needed,

Structure Number	Station	a	6	C	Ls	Walkway Grating and Handrail Lenaths
350501080L096.0	785+00	1.6	15′-6*	15'-6"	30'-0"	31'-0"
350061080R072.5	437-50	1'-6"	<i>15'-6</i> *	15:-6*	30°-0°	310
35050/039R049.0	190+00	128	15′-6*	15'-6"	30.0	31′-0″
350501039L068.5	540+00	<u> </u>	<i>15'-6</i> *	151-6"	30'-0"	31'-0"
3S0461057R305.0	555+00	17-6*	15′-6*	15"-6"	30:-0*	31'-0"
35046/057L 3 <b>/9</b> .9	547+30	1′-6*	<i>15'-6</i> *	151-63	30'-0"	31'-0"

- \* Space walkway brackets WE6x5.40 for efficiency and within limits shown:
- f = 12" maximum, 4" minimum (End of sign to © of nearest bracket)
- g = 12" maximum, 4" minimum (End of walkway grating to © of nearest support bracket)
- h = 6'-0" maximum (€ to € sign and/or walkway support brackets, WF6x5.40

Maximum DMS weight = 5000 lbs. 4'-2" maximum cabinet depth includes depth of cabinet plus connection to WF6x5.40.

For Section B-B and Grating Splice Details, see Base Sheet OS-A-IO-DMS. For Handrail Splice Details, see Base Sheet OS-A-II-DMS.

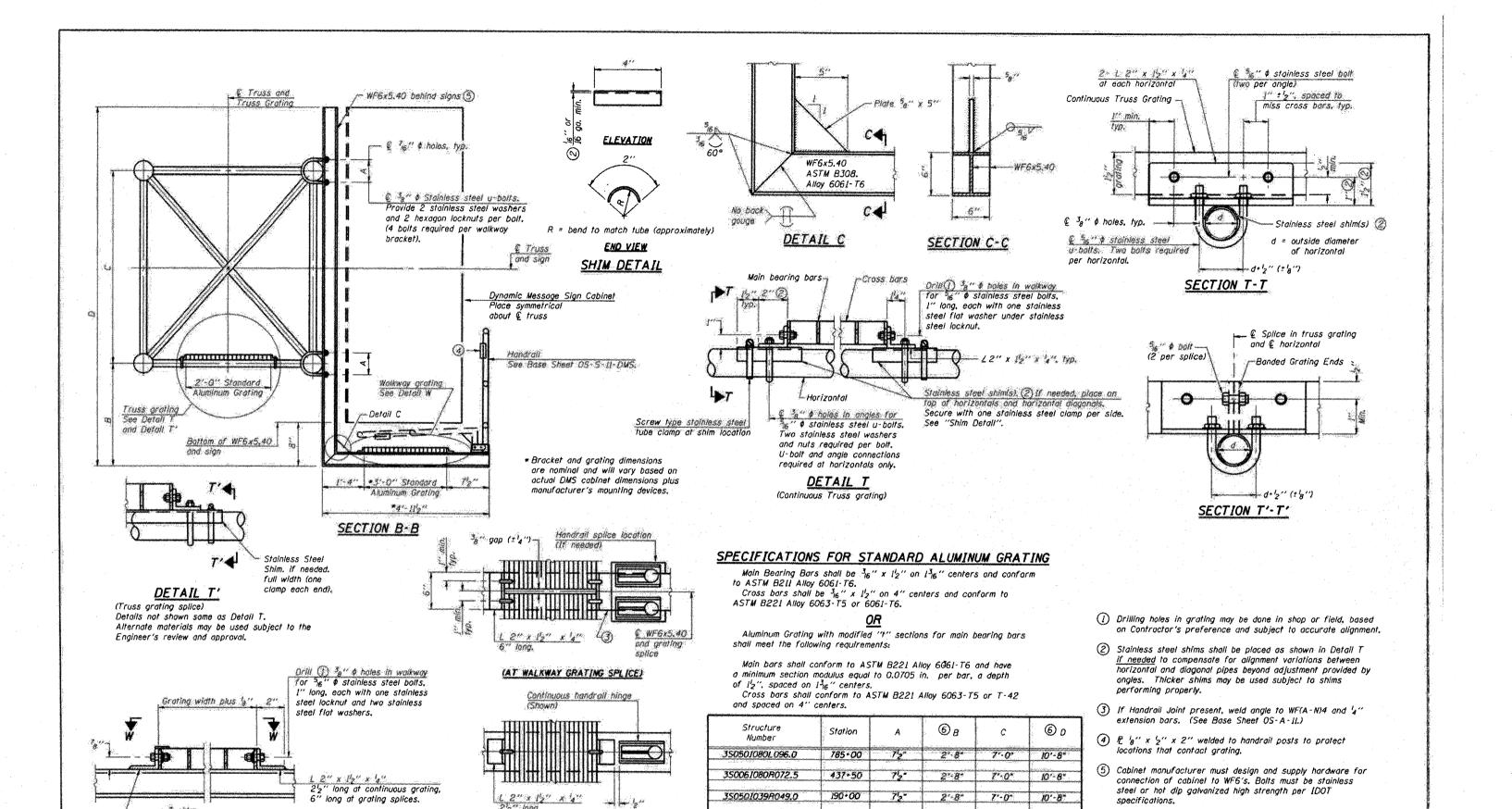
OS-A-9-DMS

1-20-11 FILE NAME : KUSO -USER NAME + perely, OESIGNED DRAWN REVISED -PLOT SCALE = 98,9999 17 IN CHECKED -REVISEO . PLOT DATE = 3/8/2012 DATE REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

OVERHEAD SIGN STRUCTURES	RA:	
ALTERNATE ALUMINUM WALKWAY DETAILS FOR DMS	VAR	0
Carry No. 1 Carry No. 1 Carry	<b>4</b>	

COUNTY SHEETS SHEET VAR 50 ZO CONTRACT NO. 66828 SECTION 03 OVO MESSAGE SG - 2012



OS-A-10-DMS

DETAIL W

(Walkway grating)

1-20-11

### STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

(CONTINUOUS WALKWAY GRATING)

SECTION W-W

350501039L068.5

3S046I057R305.0

350461057L 319.9

540+00

555+00

547+30

72"

72"

21.8"

2'-8"

2'.8\*

7'-0"

7'-0"

7'-0"

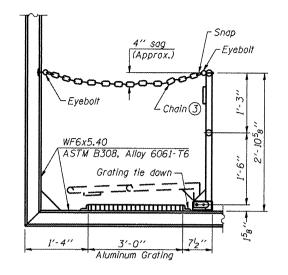
10'-8"

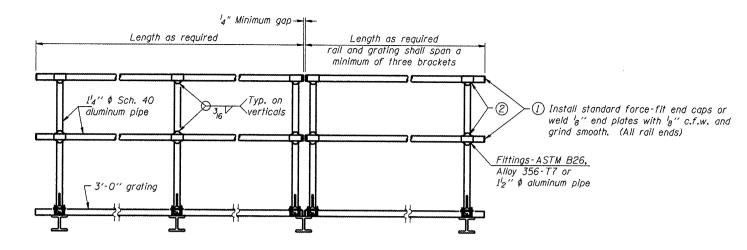
10'-8"

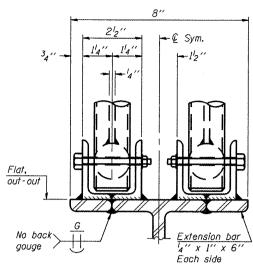
10'-8"

			<u> </u>
OVERHEAD SIGN STRUCTURES	RIE.	SECTION	COUNTY SHEET
ALTERNATE ALUMINUM WALKWAY DETAILS FOR DMS	VAR	D3 OVO MESSAGE SG - 2012	VAR 50 21
SCALES SPEET NO. 1 OF 1 SPECTS   STAL TO STAL	<b></b>	[ILLINGIS]	CONTRACT NO. 66828

6 Based on actual height of tallest sign given on OS-A-1.





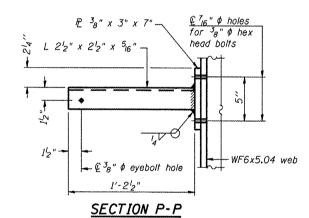


### ELEVATION AT HANDRAIL JOINT (4)

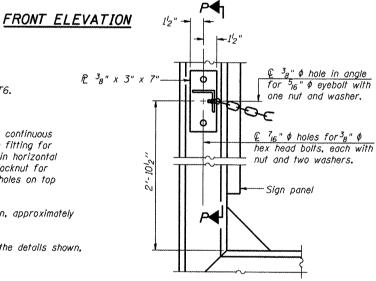
#### SIDE ELEVATION (Showing safety chain w/o sign)

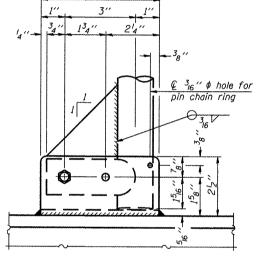
#### HANDRAIL DETAILS

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



- (2) Horizontal handrail member shall be continuous thru fitting. Provide  $^{7}_{16}$  '  $^{6}$  hole in fitting for  $^{3}_{8}$  '  $^{6}$  bolt. Field drill  $^{7}_{16}$  '  $^{6}$  hole in horizontal rail member. Provide washer and locknut for bolt. (Use 516" eyebolts in 716" \$\phi\$ holes on top rail at ends only.)
- 3) 3<sub>16</sub> " 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.





long (Each side) (4)

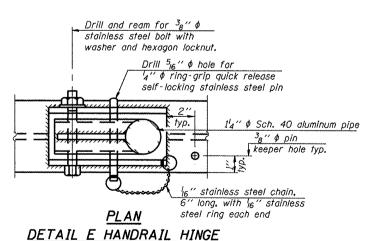
L 212" x 114" x 14", 5"

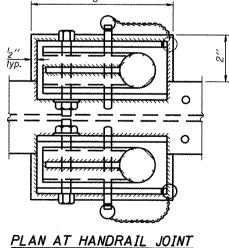
#### ALTERNATE SAFETY CHAIN ATTACHMENT

(With Sign Present) Items not shown same as "Side Elevation" of "Handrail Details"

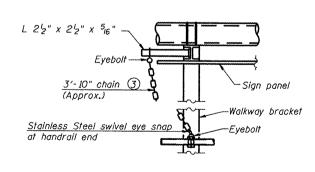
#### SIDE ELEVATION

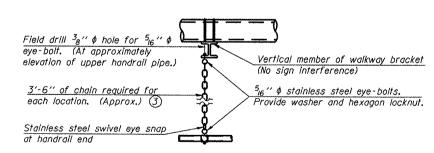
FRONT ELEVATION See "ELEVATION" at right for dimensions.





Details not shown same as "PLAN"





#### ALTERNATE SAFETY CHAIN ATTACHMENT

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

#### SAFETY CHAIN

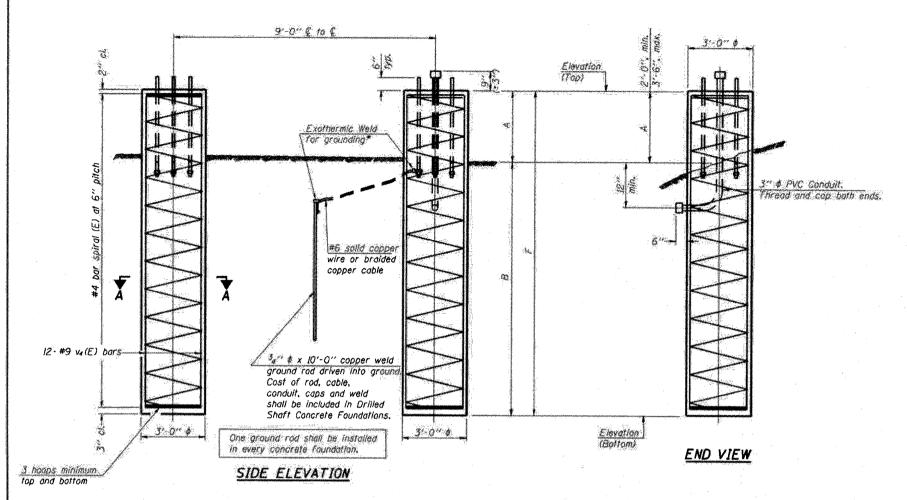
One required for each end of each walkway.

#### OS-A-11-DMS

1-20-11

FILE NAME :	USER NAME ≈ patelyj	DESIGNED	-	YOGESH PATEL	REVISED	-	
c:\pw_work\pwidot\patelyj\d0250292\D3669	28-sht-details.DGN	DRAWN	-	YOGESH PATEL	REVISED	-	 
	PLOT SCALE = 99.9999 '/ in.	CHECKED	-	RON WOODSHANK	REVISED	-	 
	PLOT DATE = 2/23/2012	DATE	-		REVISED	-	 

OVERHEAD SIGN STRUCTURES	F.A.I. RTE.	SECTION	COUNTY TOTAL SHEET NO.
ALTERNATE ALUMINUM HANDRAIL DETAILS FOR DMS	VAR	D3 OVD MESSAGE SG - 2012	VAR 50 27
			CONTRACT NU. 60028
LE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.		lu i more	***************************************



12"-0" 166"

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	Shap
V4(E)	24	#9	F less 5"	
#4 b	ar spiral (	E) - see :	Sid <mark>e Elevati</mark> o	n

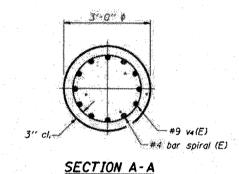
The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated. the boring data will be included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



#### DETAILS FOR 12" & SUPPORT FRAME TYPE III-A TRUSS

PLAN

Structure	C1 11			Left Fo	oundation			Right Fo	undation	<del>landi (in co in construente) en arron depresa des presi</del>		Class DS
Number	Station	Elevation Tap	Elevation Bottom	A	В	F	Elevation Top	Elevation Bottom	Α	В	F	Concrete (Cu. Yds.)
350501080L096.0	785 • 00	681.98	651.98	2:0	180.	201-01	681.60	661.60	21.0°	181-0-	20'-0"	20:9
350061080R072.5	437+50	652,67	632.67	2:0	187-0"	20'-0"	651.68	631.68	2'-0"	/8'-O*	20:-0:	20.9
3S050[039R049.0	190+00	674.35	654.35	2:-0"	181.0	201.01	673.03	653.03	2'-0"	18'-0"	20.00	20,9
3505010391.068.5	540+00	669.88	649,88	2'-0"	18'-0"	20'-0"	670.10	650.10	2':0'	18'-0"	20'-0"	20.9
35046/057R305.0	555+00	633.85	6/5.85	27-0	167-07	18°-0°	632.71	614.71	2:05	15°-0"	187-01	18.9
350461057L319.9	547+30	660.06	642.06	21.01	16'-0"	18'-0"	659.62	641.62	21-0*	16'-0"	18'-0"	18.9

054-F4

1-20-11

1				
	FILE NAME :	USER NAME is posely;	DESIGNED :	REVISED .
1	cs\p=_vork\pvidot\patelyj\d8258242\0368	26-sht-details,00N	ORAWN -	REVISED -
1		PLOT SCALE = 99.9999 1/ in.	CHECKED +	REVISED -
l		PLOT DATE = 3/8/2012	DATE	REVISED

	·	NATIONAL PROPERTY OF THE PROPE	
OVERHEAD SIGN STRUCTURES	FAL:	SECTION	COUNTY
DRILLED SHAFT DETAILS	VAR	03 OVO MESSAGE SG - 2012	VAR
			CONTRAC
CALE: SHEET NO. 1 OF 1 SHEETS STA TO STA.	·	ILL (NOTS)	in annual contracts

Can l	Illinois Depar of Transporte Birthian of Highways KLHOIS DOT	rvion ser a			Α.	SOIL BORIN				Date	_5/	10/11
ROUTE	1-80	DESCRIPT	ION		1-80 W	est Bound, MP 96.05,	Station 785+00	u	OGGED	BY	Larry	Myers
SECTION	03 OVO Message 5G-	<u>2012</u> L	OCATIO	N .	NE 1/	4, SEC. 35, TWP. 34N	RNG. 4E.			***************************************	***************************************	<del>inenadou e</del>
COUNTY	LaSalle DRIL	LING METHO	0	* *************************************		de , Longitude flow Stem Auger	HAMMER TYP	E.		ME A	utomat!	<u>c</u>
STRUCT, NO. Station	3\$050 080 .096.0 785+00	-   0 ;	8 L 0	0 0 5	N O	Surface Water Elev. Stream Bed Elev.		# #	0 E P	8 L	U C S	М О
BORING NO. Station Offset	785+00: 60.0:11: Uz:		S	Qu.	S	Groundwater Elev.: First Encounter Upon Completion	666.2		H	s S	Qu	S
Graund Surfac	e Clev. <u>682.18</u>	(f)	(/6")	(lsf)	(%)	After Hrs.		<u>"</u>	(0)		(tst)	( <b>X</b> )
Augered Black with Gravel Fill	Silly Clay Loam					Hard Gray Sity Clay (continued)	Loom Till			9	6.5 S	20
SHII Gray & Br	own Silty Laam	679,68	4	3.0	22					6	6.1	20
				ρ					1	8	S	**
			2 7 2	7.5 P	24	`			1	6 6 7	5.4 S	20
Very Stiff Brown Loam TIII	n & Gray Silly Clay	675.18	2	3.1	21				1	3		
		572.68	· 5	<u>.</u>	-				1	5	5	
Hard Gray Silty	Clay Loom Till		6	7.3					==	3.	4.6	20
			13	Š	25				1	6	5	
		***************************************	- <u>\$</u>	7.8 S	16				=			
		-1.	10						-35	3		1
			ģ	7.6 5	23	End of Boring	e ujingan pada maga magamatan	645,68	_	3 8	4.1 S	21
		- Since	5			cantot bound			=	Security sec		
			8	7.1 \$	19					***************************************		
		-20							+40			

of Transportation Williams SLUMOS 007						Date	·5/1	9/11
ROUTEDESC	RIPTION		-80 W	est Bound, MP 96.05, Sto	on 785+00	OCCED BY	Larry	Myers
SECTION 03 OVD Message SG-2012	LOCATIO	)N	NE 1/	4. SEC. 35. TWP. 34N. RN	G. 4E	***************************************	***************************************	
COUNTY LaSalle DRILLING NE	THOO	Separation	<u>Ho</u>	llow Stem Auger	HAMMER TYPE	CME	Automati	
	0 B E L P 0	U C S	0	Surface Water Elev. Stream Bed Elev.		D B L D	Ü	<b>M</b> O
Station 785+00 Offset 14,00ff Lt.	Т <b>ў</b> Н <b>Š</b>	Qu	S T	Groundwater Elev.: First Encounter Upon Completion	567,1 ft	T W H S	Qu	S T
Ground Surface Elev. <u>683.7.2.</u> () Augered Brown, Gray & Black	(11) (/6")	(tsf)	(%)	Upon Completion After Hrs. Hard Gray Silty Clay Loc	<u> </u>	(u) (\rac{2}{2}	') (tsf)	( <b>X</b> )
Silly Clay Loam Fill				(continued)	(Marie 1988)		3 1	19.8
Very Stiff to Hard Brown, Gray & Black Sity Clay Learn Fill		40	17.9				6.5	19.4
T week		P						,, 4 7
676.62		2.5 P	29.5				6.5	20.8
Very Stiff Gray & Brown Stify Clay (Loess) 675.62								
Silf Brown & Gray Silfy Loam with Learny Gravels		1,5 P	20.7			<b>Ⅎ</b> §	6,9   S	21.1
Hord Gray Silly Clay Loam Till	<b>-</b> 10							سنسين
		4.1 S	17.0					14.4
	<b>₹</b>	7,1 S	15.0					:
	-5 10 12	8.2	20.5			==3 10 10	5,4	17.0
****	15	S		End of Boring	646.6	representation (2)	s l	
	8   8   10	77.1 5	16.6					
-	<b>.</b>	# 				=		

### SOIL BORING LOG I-80 WB, MP 96.05, STATION 785+00

	<del>,</del>	<del></del>							
FILE NAME *	USER BONE * patalaj	DESIGNED	REVISED -			TEAL!		TYAY	CAL TELES
cs\ps.wors\peddoc\pstely;\46258292\0386	28 - 10 ( 340 ( 4.00)	DRAWN	REVISED	STATE OF ILLINOIS	SOIL BORING LOGS	RTE.	SECTION	COUNTY SHE	ETS 1821
	PLOT SCALE = 49.4944 1/ 10.	CHECKED -	REVISED	DEPARTMENT OF TRANSPORTATION	SOIL BOUING LOGS	VAR	D3 OVD MESSAGE SG - 2012	VAR 50	0 24
	PLCT DATE : 1/6/2012:	DATE	REVISEO .	DELANTACE OF INVASCOUNTION	SCALE: SHEFT NO. 1 OF 1 SHEFTS   STA TO STA			CONTRACT NO	IO. 66821
\$1	<del>(************************************</del>	4			SCALE: SHEET NO. 1 OF 1 SHEETS STA TO STA.		ILLIMOIS		

Illinois Departmen of Transportation Ovision of Highways ELINGIS BOT	1			SOIL BORING L	OG	· -gu	1 '	-,
							5/	
ROUTE 1-80 DESCR	RIPTION		-80 E	ast Bound, MP 72.48, Station 4	37+50 LOGGED	BY	Larry	Myers
SECTION D3 OVD Message SG-2012	LOCATIO	ON .	NW 1/	4, SEC. 24, TWP. 16N, RNG. 11 de , Longitude	Ε,			
COUNTY Bureau DRILLING ME	THOD			llow Stem Auger HAM	MER TYPE	CME A	utomati	C
Station 437+50	D B E L	U	<b>M</b> 0	Surface Water Elev. Stream Bed Elev.	ft L	8 L	UC	M O
1	P 0 T W	S	S	Graundwater Elev.:	, P	0 W	S	l S
Station 437+50	H S	Qu	T	First Encounter	637.8 ft H	S	Qu	Ť
Offset 17.0 ft Rt. Ground Surface Elev. 653.80 ft	ft) (/6")	(tsf)	(%)	Upon Completion After Hrs.	637.8 ft	(/6")	(isf)	(%)
Augered White Shoulder Stone, Black & Brown Silty Clay Fill				Hard Purplish Gray Silty Clay Loam Till with Minor Layers o & Sand/Gravel	r siir	6 18 24	7.1 S	10
. Annual control of the control of t				* Max Rimac © 5% (continue	d)		3	
Hard Black & Brown Silty Clay Fill	- 6					10		
	7 8	4.5 P	21			22	10.4	8
	°-	<u> </u>				45	S	
648.80 Very Stiff Gray & Brown Silty Clay	-3 4					12		
Loess	-	3.1	27			33	11.5	8
646.80	1	8			-	61	S*	***************************************
Very Stiff Brown Silty Loam Till with Loamy Gravel Layer at 16.5' —								
17'	3	3.8	12			16 50	11.5	9
	5	S				41	S*	
: :	10				-30	***************************************		
	3	3.1	14	,	· · · · · · · · · · · · · · · · · · ·	15 23	11.5	9
******	5	S				39	S*	3
· · · · · · · · · · · · · · · · · · ·	-							
·	3	ļ.,		PAYSPACEGO	_ <u></u>			
	6	3.4 S	14			-		
. Annual de la constant de la consta				***************************************				
·	5			·	35	12		
	11	4.2 S	13	· veneral control		26 35	10.4	10
636.80		-	<b>!</b>	End of Boring	617.30	JJ	S	
Stiff to Very Stiff Purple Gray Silty Clay Loam Till	<b>=</b> 5			-	••••	1		
****	3	2.5	13		· ·			
	3	Р		**************************************	· · · · · · · · · · · · · · · · · · ·			
	-20				-40			

Illinois Departme of Transportation Obtaion of Highways						Date	5/	4/11
ROUTE 1-80 DES	CRIPTION	*************	I−80 E	ast Bound, MP 72.48, Station 437+50	LOGGED	BY	Larry	Myers
SECTION D3 OVD Message SG-2012	LOCAT	ION ,	NW 1/	4, SEC. 24, TWP, 16N, RNG, 11E		***************************************		manining.
COUNTY Bureau DRILLING N	ETHOD	7-7-7-77	Ho	illow Stern Auger HAMMER TYPE		CME A	utomati	<u> </u>
STRUCT. NO. <u>3S006i080R072.5</u> Station <u>437+50</u>	D B E L P O	U C S	0	Surface Water Elev. ## Stream Bed Elev. ##	D E P	B L O	U C S	M 0 1
80RING NO. 2 Station 437+50 Offset 102.00t Rt.	T W H S	Qu	S T	Groundwater Elev.: First Encounter 635.8 ft Upon Completion 638.3 ft	T H	w S	Qu	S
Ground Surface Elev. 653.30 ft Augered White Shoulder Stone,	(11) (/6"	) (tsf)	(%)	Upon Completion 638.3 ft After Hrs. ft Hard Purplish Gray Silty Clay	(ft)	(/6") 11	(tsf)	(%)
Brown Silly Clay Fill	_			Loam Till with Minor Layers of Sand & Gravel & Silt		17	8.4 S	9.2
	_			* Max Rimac & 5% (continued)		-		
Very Stiff Brown Silty Clay Fill	1 2 1 4	3.0 P	26.5			19 22 34	10.9 S	9.9
648-30	_	İ			-25			
Very Stiff Brown Stify Loam Till	3 4 5	3.1 S	12.3			20 33 44	11.5 S*	9.5
	2				-			
	1	2.7 S	15.7			19 35 61	11.5 S*	9.1
	<u>-10</u> 3				-30	21		
The second secon	5	3.1 S	13.6		_		11.5 S*	9.3
Hard Brown to Gray Silty Clay  Loam Till with Loamy Gravel  Layer © 16°	_   .							
Layer • 10	8	5.0 S	12.9					
•	-15 9 15	4.4	8.2		<u>35</u>	22 38	11.5	10.6
536.30	21	\$		End of Boring 616.	80	51	S*	***************************************
Very Stiff Purplish Gray Silly Clay Loam Till	8 5	2.5	11.6	-				
633.80	5	P						

## SOIL BORING LOG I-80 EB, MP 72.48, STATION 437+50

ESC MAKE 1	USER WARE I passing	DESIGNED -	NEVISEO:			TF.A.L.	**************************************	17	OTAL ISHE
cs\pw.work\pw.dus\pesetyj\d6258232\0366	ZB-sht-dwtashs.SCN	DRAWN	REVISED -	STATE OF ILLINOIS	SOIL BORING LOGS	MIE.	SECTION	COLMIY S	HEETS NO.
	PCQT SCALE : PRIVENT 17 JA.	CHECKED +	MENISED	DEPARTMENT OF TRANSPORTATION	OOIL DOINING LUGG	L VAR	na and menamer an errie	YAR	<u>50</u> 125
	PLOT DATE = 3/8/2012	DATE -	REVISED +		SCALES SHEET NO. 1 OF 1 SHEETS STA. TO STA.		S I BLOOK	CONTRACT	NO. SEEZ
\$0000000000000000000000000000000000000	<del></del>	. <del></del>	<del>Parantana ang antang ang ang ang ang ang ang ang ang ang </del>		27 082 3 3 3 4 3 4 3 4 3 4 3 4 3 4 3 4 4 4 4	4	31.5.2963(5)	A STATE OF THE STA	

Illinois Departm of Transportation Division of Highways LLUNOIS DOT	111			•	JUIL	DOMIN	G LOG			Date	_5/	16/11
ROUTE 1-39 DE	SCRIPT	ION	<u> l</u> .	-39 No	rth Bound	, MP 49.01,	Station 190+0	0 L	OGGED	βY	Larry	Myers
SECTION D3 OVD Message SG-2012	L	OCATIO	N	SE 1/4	4. SEC. 23	, TWP. 32N,	RNG. 1E			····		
COUNTY LaSalle DRILLING	METHO	D	***************************************	Ho	llow Stem	Auger	HAMMER T	YPE	stemostoticos	CME A	utomat	ic
STRUCT. NO. <u>3S050I039R049.0</u> Station <u>190+00</u>	D E P	B L 0	U C S	M 0		Water Elev. Bed Elev.		_ ft	D E P	8 L 0	U C S	0
BORING NO. 1 Station 190+00 Offset 17,00ft Rt.	H	₩ \$	Qu	S	First E	ater Elev.: ncounter Completion	664.7 665.7	ft	T H	: ₩ \$	Qu	S T
Ground Surface Elev. 674.65 ft	(ft)	(/6")	(tsf)	(%)	After _	Hrs.	ray Silty Clay	ft	(ft)	(/6") 5	(tsf)	(%)
Brown Silty Clay Loam Fill					Laam Ti	(continued)				7 10	4.8 S	12.5
fery Stiff Gray, Brown & Black Silty Clay Loam Fill	5	4	3.5	10.8						7	5.2	16.6
670,1	, <del>-</del>	5	Р	***************************************					=	14	\$	
/ery Stiff Black Silty Clay Loam opsoil	5	4	3.8	23.6					25 	9 11	5.4	10.6
567.6	5	7	8	***************************************					-	13	S	
ofiff Brown & Gray Silfy Clay/Silfy Coam Loess		3 3	2.0	23.9	5- 					9 11		21.2
	_	3	P						_	15	S	£1.4
	<u>-10</u>	1 2	1.0	26.2					30 	10 10	4.2	12.4
	5	2	P							10	S	
		4 5 6		17,4					=			e e
	<u>-15</u>	4							-35	12	-	-
		7 12		19.7	End of	Porina		638.1	<u>.</u>	11 10	5.1 \$	11.6
Very Stiff to Hard Gray Silty Clay Loam Till	<u> </u>	3 5 7	3.1	13.1	Lind Of	oung						
	-20	,	В						-40			

Illinois Departm of Transportation Oblision of Maghways HUNGOS BOT	-,,				SOIL BORING			Date	5/	17/11
ROUTE 1-39 D	ESCRIPTION	ON		-39 N	orth Bound, MP 49.01, S	itation_190+00	LOGGED	BY	Larry	Myer
SECTION D3 OVD Message SG-2012	LO	CATIO	)N	SE 1/	4, SEC. 23, TWP. 32N, I	RNG. 1E	-	***************************************		
COUNTY LaSalle DRILLING	METHOD	)	<del> </del>	Но	llow Stem Auger	HAMMER TYPE	Brangraine	CME A	utomat	<u>ic</u>
STRUCT. NO. <u>3S050I039R049.0</u> Station <u>190+00</u>	D E P	B L O	U C S	M 0 1	Surface Water Elev. Stream Bed Elev.		0 E P	8 L 0	<b>D</b> C S	M 0 1
BORING NO. 2 Station 190+00 Offset 65.00ft Rt.	H	\$	Qu	<b>S T</b>	Upon Completion	664.5 ft	H	W S	Qu	S T
Ground Surface Elev. 674.48 ft Augered Shoulder Stone, Brown &	(ft) (	(/6")	(tsf)	(%)	After Hrs. Hard Gray Silty Clay L	ff	(ff)	(/6*) 6	(tsf)	(%)
Gray Silty Clay Loam Fill	-	-			(continued)	oum mi		8 9	4.7 S	13.0
Hard Brown & Gray Silty Clay	18	5								
Loam Till Fill	1	8	>4.5 P	13.1				8 9 11	5.1 S	23.0
.669,	8 -5						-25			
Very Stiff Black Slity Clay Loam Topsoil	_	3 5 7	3.8 B	26.1				9 9 10	5.1 S	18.6
Stiff Grow & Brown Stify Loom/Stift	8	-								
Stiff Gray & Brown Silty Loam/Silt with Free Water © 10"	_	2						10		Ī
	-	2 3	1,5 P	27.2				10 9	4.7 S	14.5
	-16									
		2	1.0	28.7				9 8	5.1	14.5
	-1	2	P	20.7				11	S	14.3
	_									
	4	WH	1.0	25.9						
		2	P		The state of the s					:
659.4	18 -15	_			######################################		-35			
Very Stiff Brown Loam with Layers of Loamy Sand/Gravel		5 7	2.5	12.8	december of the state of the st			10 11	5.7	19.3
		11	Р	<b>.</b>	End of Boring	687	38.	15	S	
Hard Gray Silly Clay Loam Till 657.4					and or borning					
		5	4.1	14.2	Control of the Contro					
		7	S							
itatein mitataan katain magaga kanna k	-20			<u>L</u>		ent in the anguer perceiving processors for the ballotte and a section in	-40		arienioniones arr	increases

### SOIL BORING LOG I-39 NB, MP 49.01, STATION 190+00

FILE NAME :	USER NAME : paselyj	DESIGNED -	REVISED .			TEAL		***************************************	TOTA	
c/\pix.+c/+\pixidos\pixidig/\d8258272\0368	28 eArtidecasia.00%	ORAWN -	REVISED -	STATE OF ILLINOIS	SOIL BORING LOGS	ATE.	SECTION	COUNTY	SHEE	\$
	PLOT: SCALE = 95,9999 17 to	Toroxen: •	REVISED -		SOIL BOUING LOGS	VAR	03 OVD MESSAGE SG - 2012	PAY	50	24
	PLOT DATE = 3/8/2012	DATE	TREVISED -	DEPARTMENT OF TRANSPORTATION		1	ger programment of their sounds of their contract of the	CONTRA	CT NO	6682
Lj	PEUT DATE - STOPEDIZ	1.0015	REYISEV		SCALE: SHEET NO. 1 OF 1 SHEETS STA TO STA.		ELINOIS!	**************************************	havana and a said	***************************************

Illinois Departmer of Transportation Orthology of Highways Klinkois Bott				SOIL BORING	LOG		Date	<b>s/</b>	18/11
ROUTE 1-39 DESC			70.0	# D					
									Myers
SECTION D3 OVD Message SG-2012		IN S					· · · · · · · · · · · · · · · · · · ·		
COUNTY LoSalle DRILLING ME	THOD	***************************************	Hol	low Stem Auger	HAMMER TYPE		CME AL	<u>itomat</u>	<u> </u>
	D 8 L	U C	M O	Surface Water Elev. Stream Bed Elev.	ft ft	D E	8 L	C	M 0
•	P O T W	S	S	Groundwater Elev.:		P	O W	· \$	I S
BORING NO. 1 Station 540+00 Offset 28.00ft Lt.	H S	Qu	T	First Encounter	652.3 ft	н	S	Qu	T
Ground Surface Elev. <u>569.30</u> ft	(ff) (/6")	(tsf)	(%)	Upon Completion After Hrs.	660.3 ff ff	(ff)	(/6")	(isf)	(%)
Augered Shoulder Stone, Brown Silty Clay Loam Fill	-					į karas.	3 5	3.3	16.7
· · · · · · · · · · · · · · · · · · ·	7			Very Stiff Gray Silt with	1/1 647.I	30	6	8	
666.80				very Sills Gray Sill with	MINOR CIQY				
Hard Brown, Gray & Black Silly Clay Loam Till Fill	8	5.1	15.7			<b>-</b>	3	2.5	71.9
•••	<u> </u>	S					3	ρ	
	-5					-25			
	4 6	41	18.5			二二	4	3.0	19.6
· -	<b>=</b> 8	S	TO.O	Very Stiff Reddish Brown	642	<u>. –</u>	5	P.	13.0
	-			Very Stiff Reddish Brown Clay Loam Till	Sandy		5	**************************************	
	6 8	4.2	28.5			二	6	3.8	17.0
_	10	S S	20.2				7	B B	17.0
659.30	-16					-30			
Very Stiff Black Silty Clay Loam Topsoil	4	3.0	17.8			7	5	3.6	15.5
	<b></b>	P					9	3.0 B	
656.80									
Stiff Gray & Brown Silty Loam	$\frac{2}{2}$	1.0	77-1				*******		
***	2	P					***************************************		in the second
	-15					- 16	ocecionismoses		and the second
300	2 3	1.5	21.6			7	<u>6</u>	4.0	19.7
Vac. SEM Cros. Silb. Clos.	2	P		Cod of Day	437	$\omega$ $\equiv$	10	8	
Very Stiff Gray Silty Clay Loam/Silty Clay Till with Layers of Loamy Sand/Gravel with Free				End of Boring					
Water	$\frac{3}{5}$	3.1	12.4			4			Inclusion
***	<b>1</b> 6	8				二			grosposing
	-20					-40			

Illinois Departm of Transportation Of Transportation Of The Property					SOIL BORING LOG	Date	5/18/11
ROUTE 1-39 DI	SCRIPTIO	ON.		-39 So	uth Bound, MP 68.48, Station 540+00	LOGGED BY	Larry Myers
SECTION D3 OVD Message SG-2012	LO	CATIO	N ,	SE 1/4	, SEC. 13, TWP. 35N, RNG. 1E		Acceptance of the second of th
COUNTY LaSaile DRILLING	METHOD	)	-3	Но	low Stem Auger HAMMER TYPE	CME A	<u>utomatic</u>
STRUCT. NO. 350501039L068.5 Station 540+00	D E P	B L O	U C S	M 0 -	Surface Water Elev. ft Stream Bed Elev. ft	D B L P O	U M O O
BORING NO.         2           Station         540+00           Offset         88.00ft Lt.	T H	W	Qu	S T	Groundwater Elev.: First Encounter 651.4 ft	T W H S	Qu T
Ground Surface Elev. 669.37 ft	(ft) (	/6 <b>"</b> )	(tsf)	(%)	The second secon	(ff) (/6")	(tsf) (%)
Augered Brown Silly Clay Loam Fill	=				Hard Gray Silfy Clay Loam/Silfy Clay Till with Silf Layers (continued)	7	3,7 (8.9 8
Hard Brown, Black & Gray Silty Clay Loam Till Fill		8 9	4.6 S	18.0		4 5	3.2 19.1
		6	3			6 5	8
		8 10	4.2 S	22.3			3.1 19.4 B
Very Stiff Black Silty Clay Loam Topsail	<del>-</del>	5 4 6	3.5 P	28.1	641 Very Sliff Reddish Brown Sandy Clay Loam Till	1.87 - 6 - 7 9	3.6 19.6 B
659.8 Stiff Gray & Brown Silty Loam	710	2				30 7	
657.3 Hard to Very Stiff Brown Silty Clay	7	2 2	1.5 P	25.8		9	3.9 19.1 B
Loam Till	1	4 5 9	4.1 S	18.1			100 000
	īs	5	4.6	18.6		<u></u>	3.6 18.7
652.1 Hard Gray Silly Clay Loam/Silly Clay Till with Sill Layers	<b>=</b>	10	S	220 22	End of Boring	182 9	8
	4	7 9	4.1 S	19:7			
	-20						

### <u>SOIL BORING LOG</u> <u>I–39 SB, MP 68.48, STATION 540+00</u>

FALE NAME: 1	USEA NAME × potelyj	DESIGNEO -	REVISED -			TEALL		COUNTY	TOTAL SHE
c:\ps.work\psidox\paralyj\d8258292\0366	28-ant-details,004	DRAWN	REVISED *	STATE OF ILLINOIS	SOIL BORING LOGS	RTE.	SECTION	COUNTY S	HEETS NO
	PLOT SCALE = 99.9999 '/ IM.	CHECKED *	REVISED -	DEPARTMENT OF TRANSPORTATION	COLE BOILING FORD	YAH	NO UTO MESSAGE SU EVIL	CONTRACT	50 2/
	PLOT CATE + 378/2002	DATE -	REVISEO -		SCALE: SHEET NO. 1 OF L. SHEETS STA. TO STA.	1	iclinois	CONTRACT	NO. 0002

Illinois Departi of Transportat	1011	•	SOIL BORING L	OG	Date 10/	/25/11
OUTE <u>I-57 (FAI 57)</u>	DESCRIPTION	1-57 No	orth Bound, MP 305.0, Station	555+00 LOGGED	BY <u>Larry</u>	Myers
SECTION D3 OVD Message SG-20	LOCATIO	N <u>NE 1/</u>	4, SEC. 36, TWP. 30N, RNG. 14	W		-
COUNTY Kankakee DRILLII	IG METHOD	Ho	llow Stern Auger HAM	MER TYPE	CME Automat	ic
STRUCT, NO. Station 1	0 B E C P O	U W C C	Surface Water Elev. Stream Bed Elev. Groundwater Elev.:	<b>.</b> T	B U C S W	0   1
ORING NO.         1           Station         555+00           Offset         16.00ft Lt.           Ground Surface Elev.         633.47	ft (ff) (/6*)	Ou T (tst) (%)	Upon Completion After Hrs.	625.5 H H (n)	S Qu (/6") (tst)	(%)
tugered Black Silly Clay Laam Fill k Brown Sand Fill			Medium Gray Fine Sand to C Sand with Minor Fine Gravel Free Water at 10' (continued)	oorse with		20.9
63 Stiff Black Sandy Loam with Layers of Brown Sand Fill	<u> </u>	2.0		i gyannannan makka jiannanniiki sequin	5 5 9	2.0
oose Brown Loamy Fine to ledium Sand	9.22 	12.3	Very Stiff Gray Sifty Clay Loa with Heavy Gravel © 28" with Potential Boulders & Cobbles	608.47 -25	4	12.6
Aedium Buff Fine Silly Sand	522	150		injekterid obligane.  spiritarid obligane.  spiritarid obligane.	3	12.5
dedium Gray Fine Sand to Coarse Sand with Minor Fine Gravel with Free Water at 10'	32 · · · · · · · · · · · · · · · · · · ·	20.3	Auger Refusal 9 30' End of Boring	\$03.47	9 8	
					entral and a second and a secon	
				Addition of the state of the st		
				**************************************		

Illinois Department of Transportation of Highways Dori	n		,	SOIL BORING LOG		Date	10/	′25/11
ROUTE 1-57 (FAI 57) DES		. 1-	-57. No	rth Bound, MP 305.0, Station 555+00	LOGGED			Myers
Anna meditahannyi tanahan 1977 bilan me		- 11000,	.,	4. SEC. 36, TWP. 30N, RNG. 14W	200020			
		UN _			·	***************************************	<del></del>	***************
COUNTY Kankakee DRILLING	METHOD		Ho T	low Stem Auger HAMMER TYPE	***************************************	CME A	utomati	<u>c</u>
STRUCT. NO.	D B	U	N O	Surface Water Elev	D E	B	C	M O
Station	PO	Š	, j	Stragm Bed Elav.	P	0	Š	Ī
BORING NO. 2 Station 555+00	T W	Qu	S	Groundwater Elev.: First Encounter 623.0 (f	T H	W	Qu	S
Offset 57.00ft Lt. Ground Surface Elev. 632.98 ft	160 ( Je 11		(%)	Upon Completion #				1645
Augered Black Silly Clay Loom Fill	Town (A.e.)	(131)	1/4/	After Hrs. ft Laase to Medium Gray Fine to	1,111	4	(191)	(X)
				Coarse Clean Sand with Free Water © 10' (continued)	****	5		21.4
					-	6		
55.40					***************************************			
Medium Brown & Gray Loamy Fine to Medium Sand Fill		-	14.3			5		20.9
	12	1				5		
627.98	-5	-		:				
Louse Brown Loarny Fine to Coarse Sand with Loarn Layers	- 1 <u>6</u>		13.5	,		6		
an and an an an an an an an an an an an an an	- 3		10.2			7 9		22.1
625:98					5.98			
Loose to Medium Gray Fine to Coarse Clean Sand with Free Water & 10°	- 4			Very Stiff to Hard Gray Clay Learn Till with Gravel Pieces & Sand Seams — Potential	) <u>200</u>	9		
MUSEC SEC. FO	- 1		23.2	Cobble/Boulders	·····	12 17	4.0 p	11.6
				,		3.4		
	_=10 3				-30	10		
	5		18.0			12	>4.5	12.8
	12	-			, since	15	P	
	1							
	5	-	22.8		2444	21 32	>4.5	10.3
						31	ρ	<u> </u>
	-75				35			
	5 5	1	22.7			70 32		9.2
	<b>—</b> j		energy (	<u> </u>	1.48	21		47.5A
		1		End of Boring				
	6_				رئين. سيسيس			
	4 8		22.7					İ
	20	1	Ļ		- 40	L	L	لــــا

### <u>SOIL BORING LOG</u> <u>I–57 NB, MP 305.0, STATION 555+00</u>

BBS, form 137 (Rev. 8-99)

FILE NAME =	USER NAME : paraly,	DESIGNED +	PEVISEO +			F.A.I.	SECTION	96 Par 30 - Print	TOTAL	SHEFT
c:\ps.sork\psidot\patelig;\diligitalis	ZO who deterio.Com	ORAWN -	REVISEO	STATE OF ILLINOIS	SOIL BORING LOGS	RIE.		- Countr	SPEETS	NO.
***	PLOT SCALE : 99.9999 1/ in.	O/ECKED : *	REVISED -	DEPARTMENT OF TRANSPORTATION	SOIL DOINING LOGS	YAR	03 OVO MESSAGE SG - 2012	YAR	50	28,
	PLOT DATE = 3/8/2012	DATE	REVISED -	ALI MINISTERS OF THEMSENDENSING	SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.		<u> </u>	CONTRAC	JT NO. 1	moce
	i ang ang ang ang ang ang ang ang ang ang	Zarania de la companya del companya de la companya della companya	27.00.00	the contract of the contract o	SCALE: SHEET NO. 1 OF 1 SHEETS STATO STA.	£	Traines.			

		***************************************
Illinois Departm of Transportation	ent SOIL BORING LOG	Page <u>1</u> of <u>1</u>
Division of Highways ILLINOIS DOT		Date <u>3/1/12</u>
ROUTE 1-57 (FAI 57) D	SCRIPTION 1-57 South Bound, MP 319.93, Station 547+30	LOGGED BY Larry Myers
SECTION D3 OVD Message SG-2012	LOCATION SE 1/4, SEC, 29, TWP, 32N, RNG, 12E	
COUNTY Kankakee DRILLING	METHOD Hollow Stem Auger HAMMER TYP	E CME Automatic
STRUCT. NO. 35045057(319.9 Station 547+30	D B U M Surface Water Elev.	<i>. . .</i>
80RING NO. 1 Station 547+30 Offset 24,00ft Lt.	T W S Qu S Groundwater Elev.: First Encounter 647.8 Upon Completion 648.3	ft l
Ground Surface Elev. <u>660.30</u> ft Augered bituminous grindings (RAP) shoulder, white and brown sand / grayel fill.	(ff) (/6") (tsf) (%) Affer Hrs.	
Very stiff brown and gray silty clay fill.	2 4 5 3.8 19.7 P	
	3 3.0 22.0	
Very stiff black sity clay loam lopsoil - possible fill.		
650.  Soft black to dark gray sandy loam  / loam with gravel and free water at 12.5 ft.	· · · · · · · · · · · · · · · · · · ·	
645. Stiff gray silt. Bedded with layers of	2 P	
sandy clay and gravel with free water.	3 4 2.5 25.2 5 P	
Very stiff gray silly clay.		
Dense gray limestone. 642. End of Boring	Y	accidence and accidence accidence and accidence accidence and accidence accidence accidence and accidence accidence accidence accidence accide
	-20	

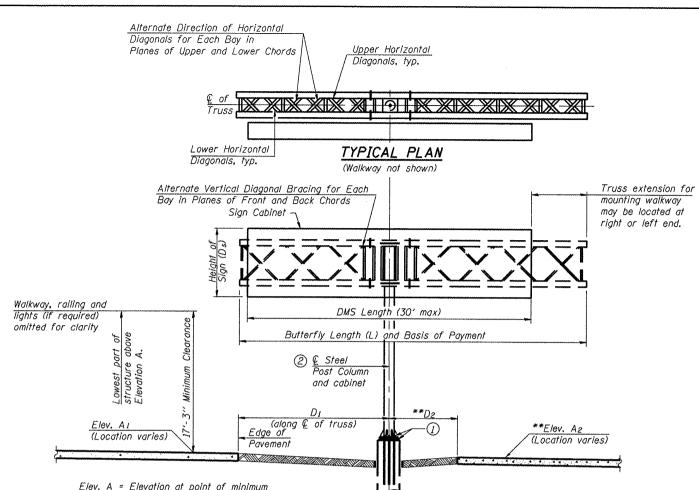
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

Illinois Depo of Transpor Otherison of Highways								Date	3/	1/12
ROUTE 1-57 (FAI 57)	DESC	RIPTION		-57 So	uth Bound, MP 319.93,	Station 547+30	LOGGED	BY	Larry	Mye
SECTION D3 OVD Message SG	-2012	LOCATIO	N ,	SW 1/	4. SEC. 29, TWP. 32N.	RNG. 12E				
COUNTY Konkakee DF	RILLING ME	THOD	Service	Но	llow Stem Auger	HAMMER TYPE		ME A	utomat	ic
STRUCT, NO. 3S046(057L319.9 Station 547+30	I	D B E L P O	U C S	M 0	Surface Water Elev. Stream Bed Elev.		D E P	B L 0	U C S	M 0
80RING NO. 2 Station 547+30		T W H S	Qu	S T	Groundwater Elev.: First Encounter		T H	W S	Qu	s T
Offset 70,00ft Lt. Ground Surface Elev. 660,13		(#) (/6")	(tsf)	(%)	Upon Completion After Hrs.	648.1 ft	(ff)	(/6")	(tsf)	(%)
Augered shoulder stone, brown silty clay loam till fill.		-			End of Boring		" _	00 / 2"		21.4
	657.63									
Very stiff brown and gray silty clay laam till fill.		3 4 6	3.5 p	19.2			_			
	****		i i							
		4 5	3.5	19.9			-25			
	en en en	<b>1</b> 6	P	13.3						
Very stiff dark brown silty loam /	653 13	_								
watty tests.		2		26.0			-			
	650.63	3	Р					ini		
Soft to loose brown / black silt, sand, clay. Alluvial stack water	-	-10 1					-30	ali iuni in		
deposits.	٠	$\frac{1}{2}$	1.0 P	28.3						
Medium gray fine to coarse sand with some fine to medium gravel	647.63	1								
and free water.	-sylve-	5 6		19.6						
	645.13	 -15					-35	ı		
Very stiff gray silt and silty clay, interbedded.		2	2.0	23.9				***************************************		
		<b>5</b>	Р	<b></b>				***************************************		:.
		亅,								
	, ,		3	22,4			_			
	640.63	6	Р							
Dense gray limestone.		-20			an mer kanangga k		-40	i		

## SOIL BORING LOG I-57 SB, MP 319.93, STATION 547+30

BBS, form 137 (Rev. 8-99)

che usue	WEST WART CO.	nesionen	T. Contraction						
Grant of Contraction Co.	vitro vitro vivo vivo vitro vivo vitro vivo vivo di propositi i vivo vivo vivo vivo vivo vivo vivo	g sprawerentsawe	NEA12ED -			F.A.I.	SECTION	COLUMN TO	OTAL SHEET
03/pw.work\pwidot\potely_\08258292\0366	20-eni-deceria.DM	DRAWN	REVISED -	STATE OF ILLINOIS	SOIL BORING LOGS	PH.		219	70
	PLOT SCALE = TRIPPYS 17 in.	CHECKED +	REVISED	DEPARTMENT OF TRANSPORTATION	Our pointed road	LVAR	03 OVD MESSAGE SG - 2012	VAR !	30 2-1
	PLOT DATE = 3/8/2012	nate -	REVISED -	perantment of invitation		(	1	CONTRACT N	NO. 66828
<u> </u>			1 (10.74.36.0)	the state of the s	SCALE: TO STA TO STA.	4	1111005	VOLUME AND ADDRESS OF THE PARTY	***************************************



#### TYPICAL ELEVATION

Looking in Direction of Traffic

Sign support structures may be subject to damaging vibrations and oscillations when signs 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.

Structure Number	Station	Total Butterfly Length (L)	Elev. A <sub>1</sub>	Elev. A <sub>2</sub>	Dim. D <sub>1</sub>	Dim. D <sub>2</sub>	Ds	Total Sign Area	Access door and walkway location (Right or Left end)
3F050I039R052.6	701+50	38'-8"	646.83	**	20'-0"	**	10'-0"	300 Sq. Ft.	Right.
3F0501039L057.6	965+00	38'-8"	621.09	**	20′-0"	**	10'-0"	300 Sq. Ft.	Right.
3F050I080L083.6	130+00	38'-8"	634.70	**	20′-0"	**	10'-0"	300 Sq. Ft.	Right.

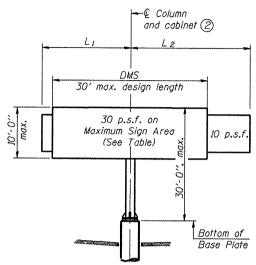
#### TOTAL BILL OF MATERIAL

Foot	116'-0"
Foot	12'-0"
Cu. Yds.	27,9
	Foot Cu. Yds.

TRUSS TYPE MAXIMUM TOTAL
DMS SIGN CABINET AREA

III-F-A 300 Sq. Ft.

Mamimum DMS weight = 5000 LB.



#### 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.

- After adjustments to level truss and insure adequate vertical clearance, all top and bottom 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.
- (2) Centerline cabinet must be located at centerline of column.
- 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.

#### 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

WIND LOADING: 30 p.s.f. normal to DMS Cabinet Area and truss elements not behind sign Loading Diagram.

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

DESIGN STRESSES
FIELD UNITS
f'e = 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\* (M183, M223 Gr. 50, or M222). 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 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 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.

OSF-A-1-DMS

1-20-11

clearance to sign, walkway support or truss.

\*\* Elevation A2 and dimension D2

not used when butterfly

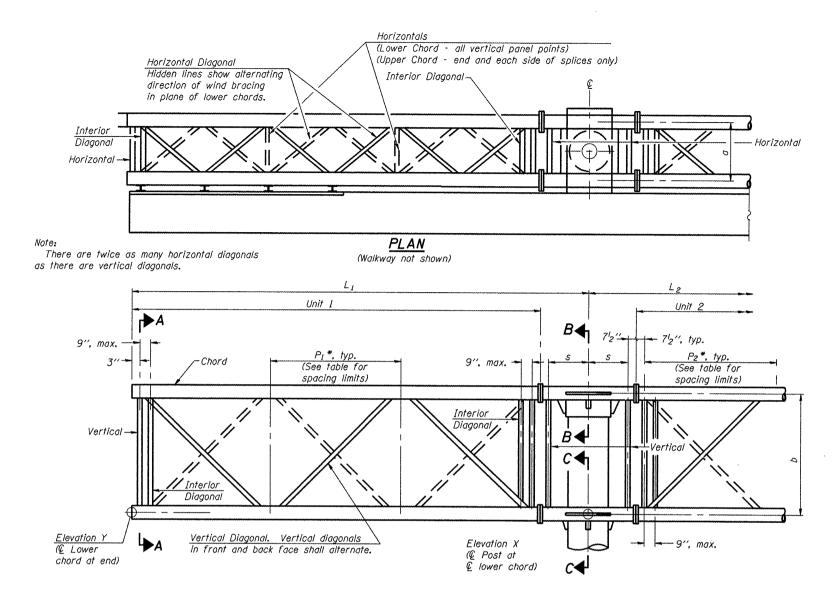
structure is mounted on

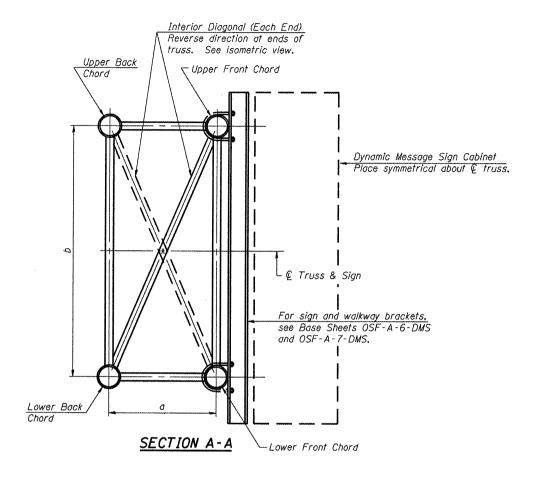
right side of the shoulder

ILE NAME =	USER NAME = potelyj	DESIGNED	-	REVISED	-	******	١
:/pw_work/pwidot/patelyj/d0250292/03666	28-sht-details.DGN	DRAWN	*	REVISED	-		
	PLOT SCALE = 99,9999 '/ in.	CHECKED	-	REVISED	-		
	PLOT DATE = 2/23/2012	DATE	-	REVISED	-		

BUTTERFLY S	IGN S1	ru(	TUR	ES	- ALTEI	RNATE	PLAN	& ELEVATIO	N
FOR	DMS	- A	LUM	NU	M TRU	ss &	STEEL	POST	
SCALE:	SHEET	NO.	1 0	- 1	SHEETS	STA.		TO STA.	

.I. E.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
R	D3 OVD MESSAGE SG - 2012	VAR	50	30
		CONTRAC	T NO.	66B2
	to a toward			





#### ELEVATION

(Sign and walkway omitted for clarity)

#### TYPICAL TRUSS UNIT

For Section B-B and Section C-C, see Base Sheet OSF-A-3-DMS

#### TRUSS UNIT TABLE

Truss Type	Dimension ''a''	Dimension ''b''	Dimension ''s''	Limits for Panel Spacing (P)*	Up. & Low. Chord O.D. Wall		Verticals; Horizontals; Vertic Horizontals; and Interior Diago		
III-F-A	36′′	84''	21"	48" min. to 66" max.	7''	38"	3½"	38′′	

\*P = \(\frac{L-s-1'-6''}{\pi \text{ Panels}}\)

Structure Number	Station	Truss Type	L	L <sub>2</sub>	Number of Panels Unit 1	Panel Length (P <sub>I</sub> )*	Number of Panels Unit 2	Panel Length (P <sub>2</sub> )*
3F050I039R052.6	701+50	III-F-A	17'-4"	21'-4"	3	56"	4	54"
3F050I039L057.6	965+00	III-F-A	17'-4"	21'-4"	3	56"	4	54"
3F050I080L083.6	130÷00	III-F-A	17'-4"	21'-4"	3	56"	4	54"
	***************************************	-			<del> </del>			

OSF-A-2-DMS

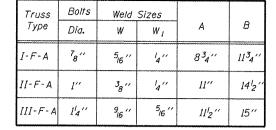
1-20-11

	FILE NAME :	USER NAME = patelyj	DESIGNED	-	REVISED	-	
	c:\pw.work\pwidot\patelyj\d0250292\D3666	28-sht-details.DGN	DRAWN	•	REVISED	-	
		PLOT SCALE = 99,9999 '/ in.	CHECKED	-	REVISED	-	
į		PLOT DATE = 2/23/2012	DATE	-	REVISED	-	

BUTTERFLY SIGN STRUCTURES - ALTERNATE TRUSS DETAILS FOR DMS	F.A.I. RTE.	SECTION	COUNTY TOTAL SHEET NO.
ALUMINUM TRUSS & STEEL POST	VAR	D3 OVD MESSAGE SG - 2012	VAR 50 31
			CONTRACT NO. GODEO
 SCALE: SHEET NO. 1 OF 1 SHEETS   STA TO STA.		ILLINOIS	

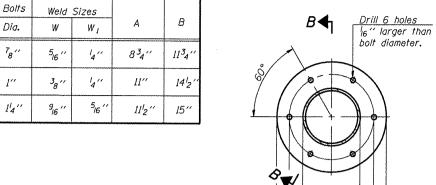
#### SHOP CAMBER TABLE

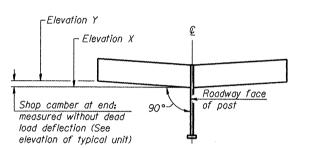
L1 or L2	Shop Camber at End
15′	l'2''
16′-17′	1 <sup>3</sup> 4''
18′-20′	2"
21'-22'	24"
23'-25'	22"
26'-27'	2 <sup>3</sup> 4''
28′-30′	3′′
31'-32'	34"
33′-35′	3½''



-Chord

-Vertical





Interior Diagonal

Horizontal

Interior Diagonal ISOMETRIC VIEW [Horizontal (Lower Chord Only) TYPICAL TRUSS UNIT - Horizontal ASTM B221 Alloy 6061 Temper T6

Horizontal Diagonal

—Interior Diagonal

SPLICING FLANGE

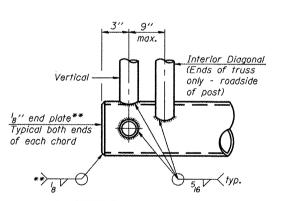
ASTM b221, Alloy 6061-T6 or ASTM B209, Alloy 6061-T651

\*Flange I.D.

\* To fit O.D. of Chord with maximum gap of 16".

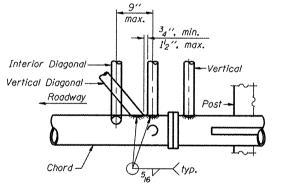
bolt diameter.

#### CAMBER DIAGRAM (For Fabrication Only)



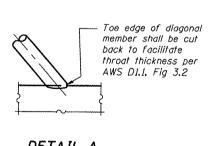
#### BUTTERFLY END JOINT DETAIL

\*\* Contractor may alternatively use standard aluminum drive-fit cap to close ends.

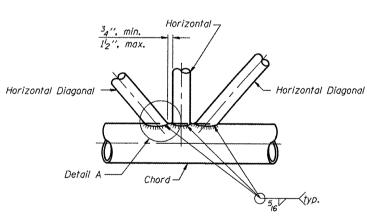


/Horizontal (Lower Chord Only)

POST END JOINT DETAIL



DETAIL A



SCALE: \_\_\_

TRUSS INTERIOR JOINT DETAIL

See Table & Note(I) High strength bolts with locknuts or (if members interfere) threaded studs with two locknuts. Use stainless steel washers under head and nut. See table.

#### 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.

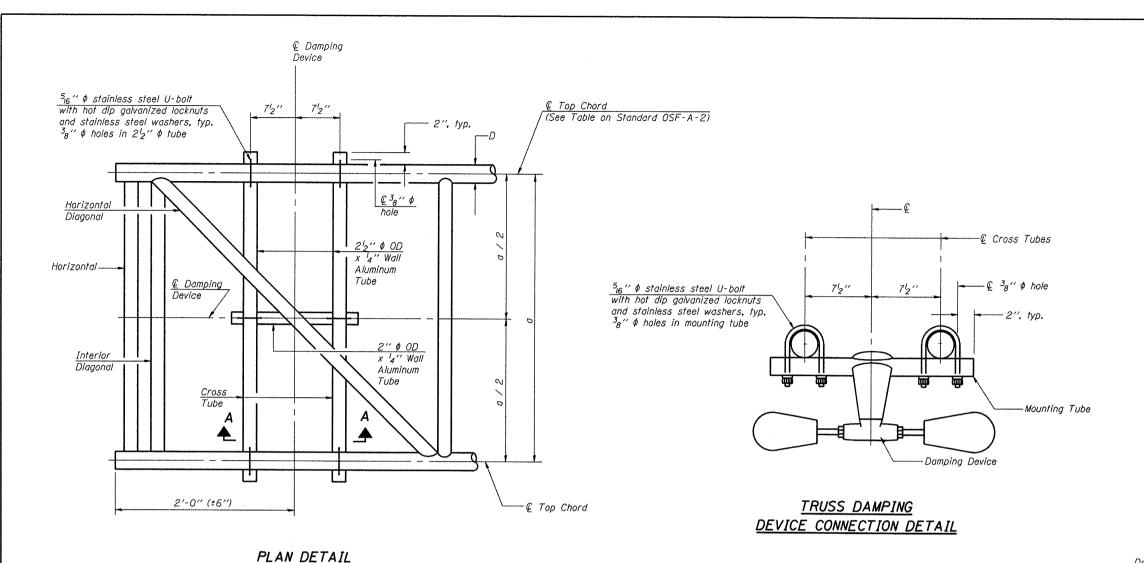
0SF-A-2A

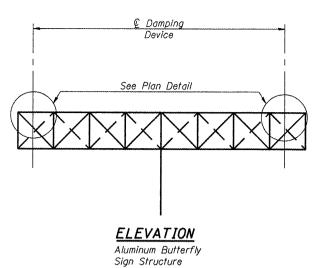
1-20-11

FILE NAME =	USER NAME = patelyj	DESIGNED	*	REVISED	-		Г
c:\pw_work\pwidot\patelyj\d0250292\03666	28-aht-detaila.DGN	DRAWN	•	REVISED	-		ĺ
	PLOT SCALE = 99,9999 '/ in.	CHECKED	*	REVISED	-	*****	ĺ
	PLOT DATE = 2/23/2012	DATE	•	REVISED	-		ı

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

BUTT	ERFLY	SIGN	ı	STR	UC	TU	RES		TR	USS	DETA	ILS		
	ALU	MINL	IN	T	RU	SS	&	STE	EL	POS	T			
	SHEET	NO.	1	OF 1	. 5	SHEE	<b>TS</b>	S	TA.			TQ	STA.	



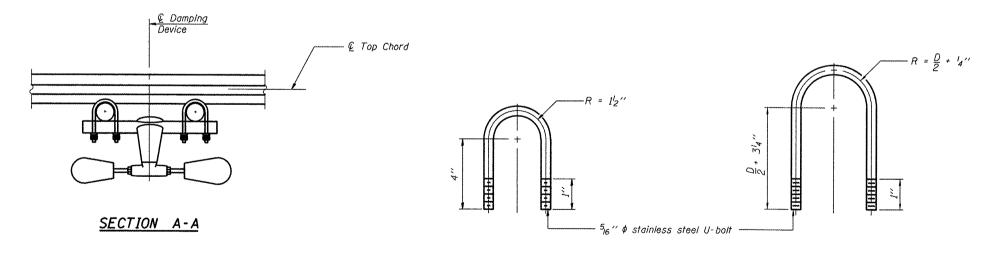


#### GENERAL NOTES

One damper per truss. (31 lbs. Stockbridge-Type Aluminum-29" minimum between ends of weights) Damper:

Materials: Aluminum tubes shall be ASTM B221 alloy 6061

temper T6



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

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

SCALE:

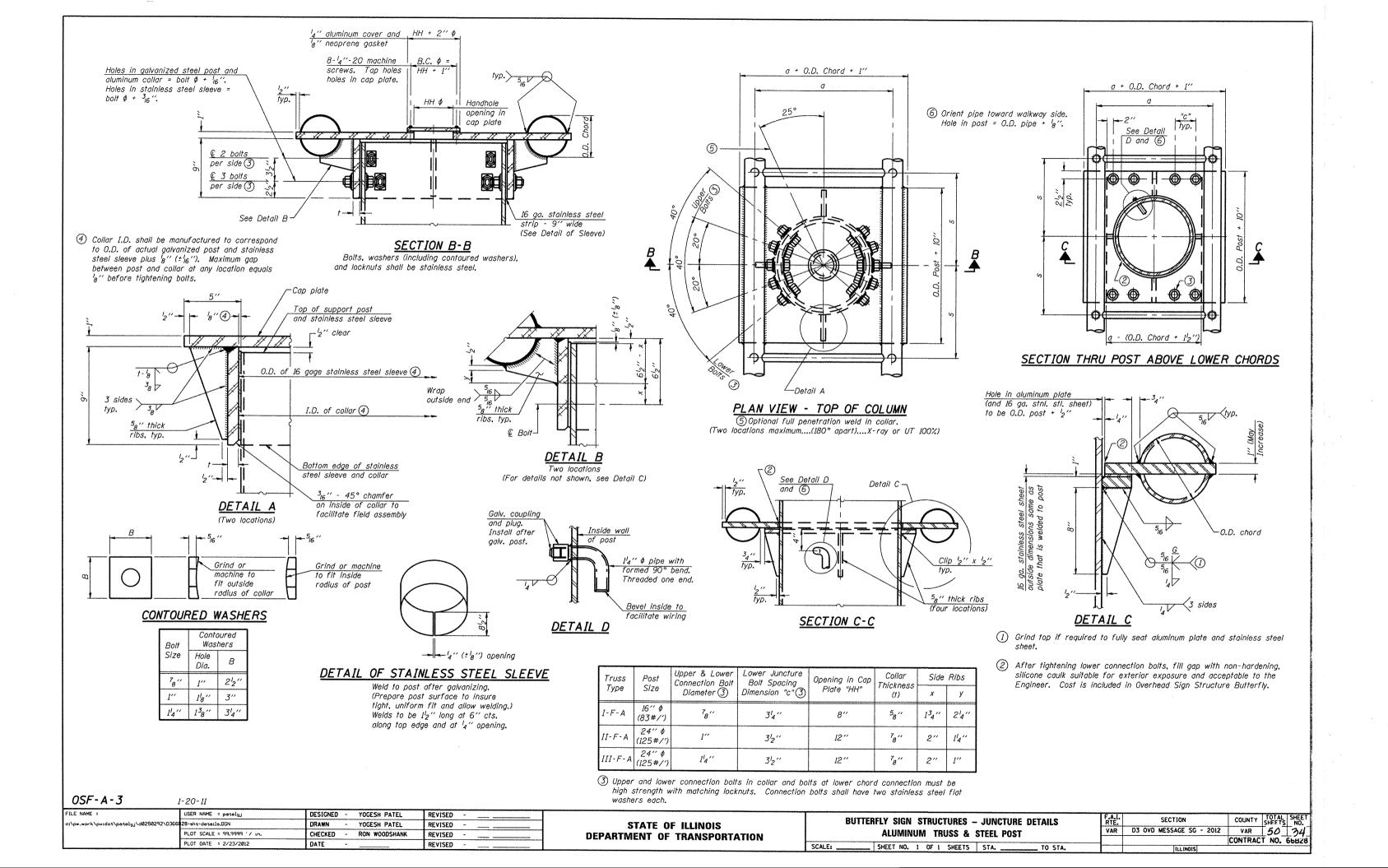
OSF-A-D

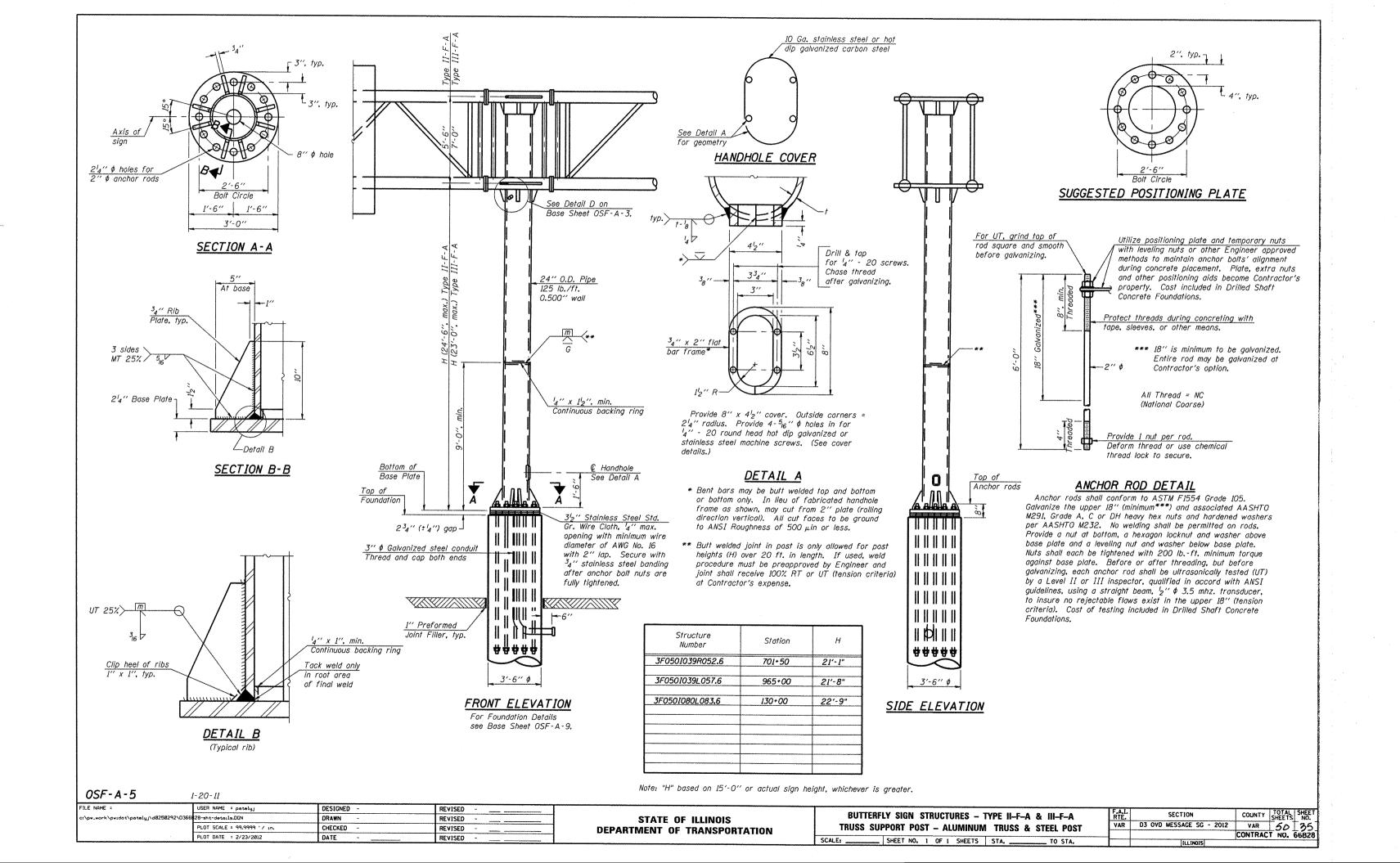
FILE NAME =

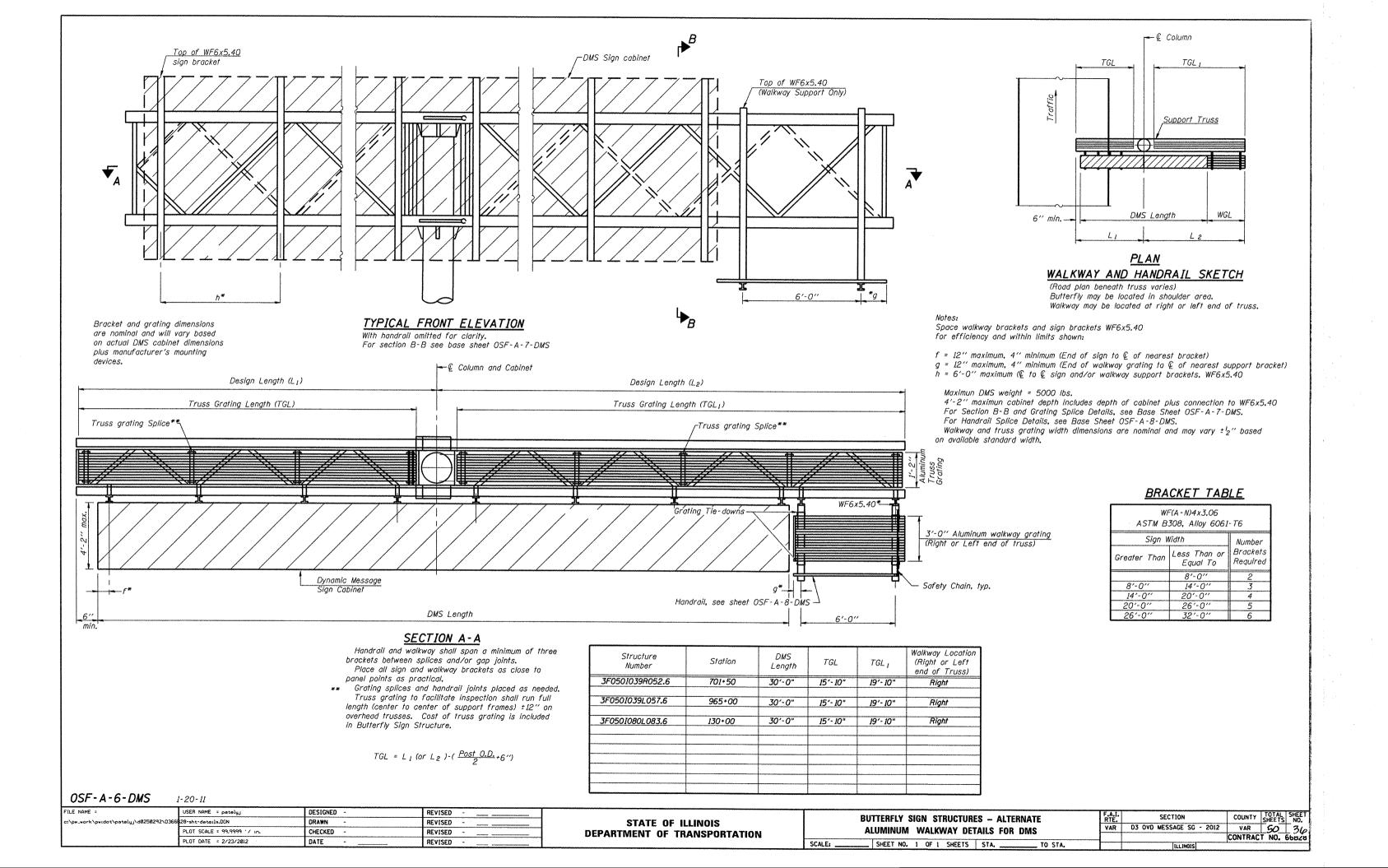
1-20-11 USER NAME = potelyj DESIGNED ~ REVISED 28-sht-details.DGN DRAWN REVISED PLOT SCALE = 99,9999 '/ in. CHECKED -REVISED PLOT DATE = 2/23/2012 DATE REVISED

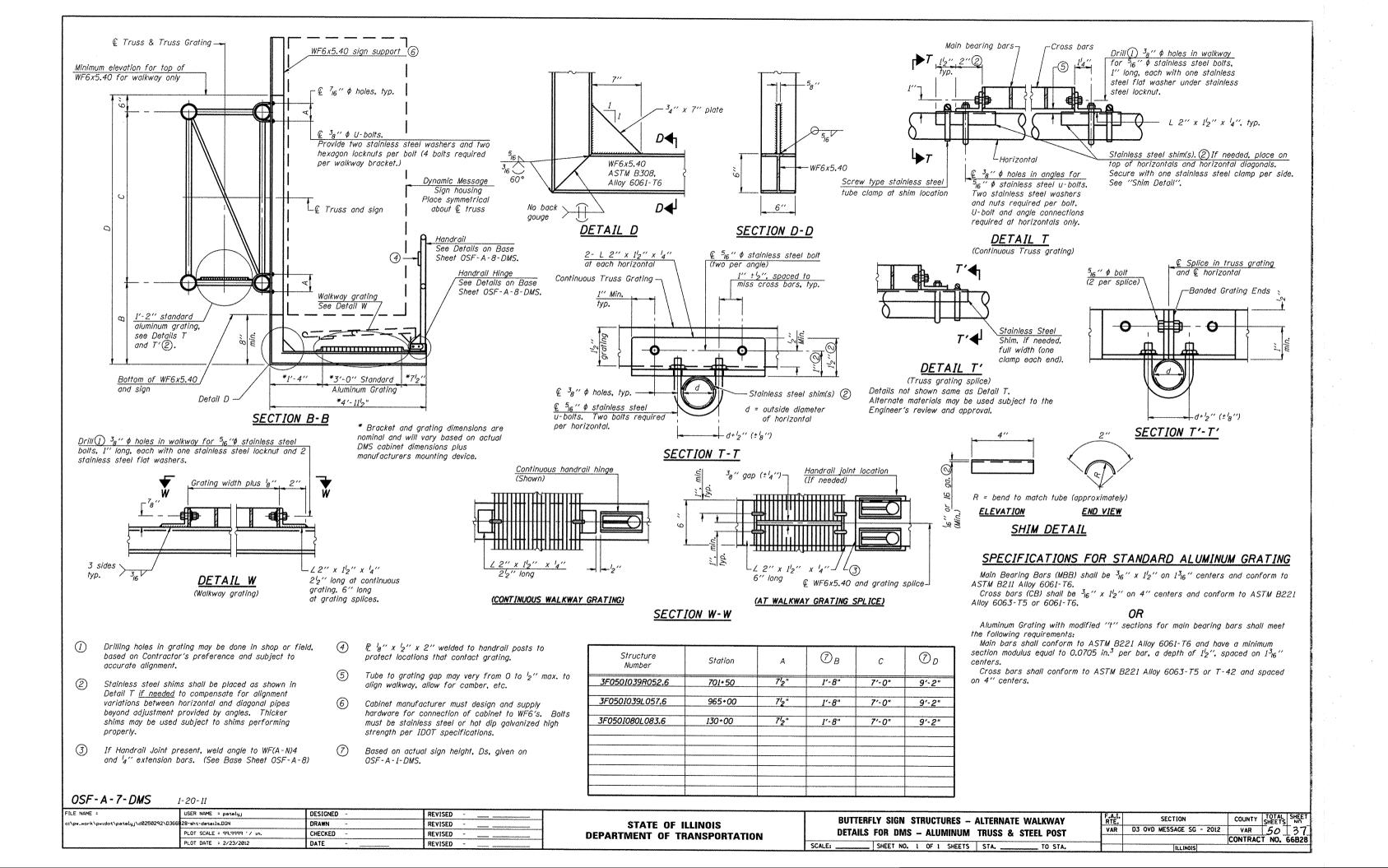
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

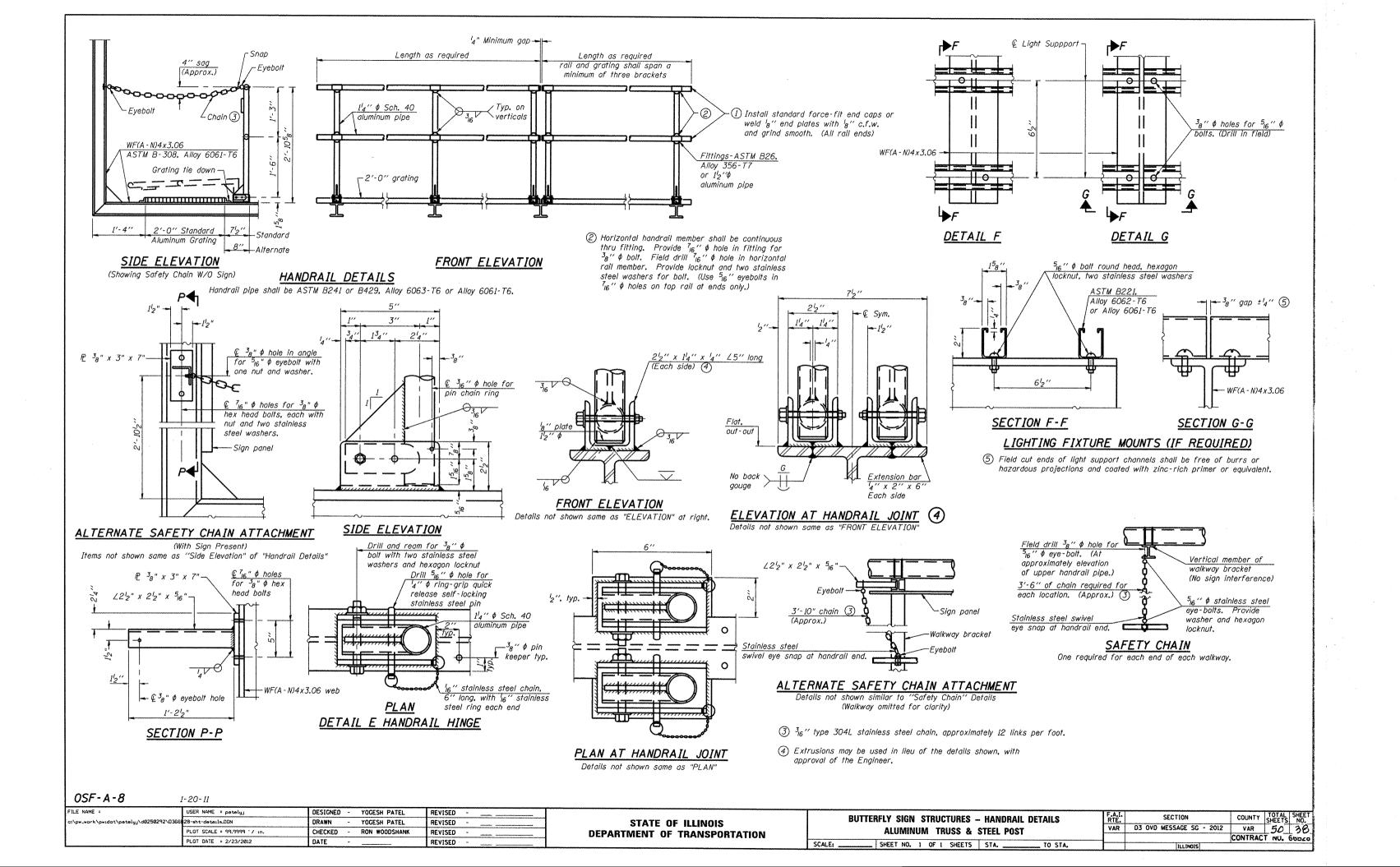
**BUTTERFLY SIGN STRUCTURE** DAMPING DEVICE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

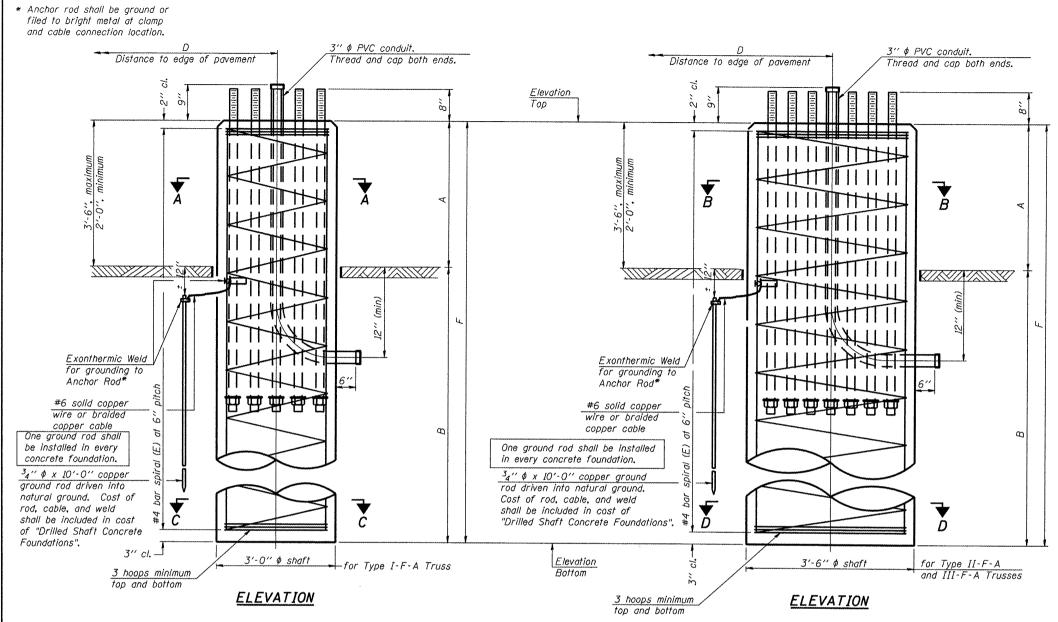












FOUNDATION DESIGN TABLE Maximum Maximum Shaft "B" Anchor Rods Post Base Anchor Rod Truss CantileverLength Total Sign Area Diameter Depth Circle Diamete Туре Sheet Diameter No. (ft) (sq ft) (in) (ft) (in) (in) I-F-A OSF-A-4 200 3.0 II-F-A OSF-A-5 22'-0" 30 30 400 400 3.5 12 III-F-A OSF-A-5 35 3.5 24'-0" 30

-#4 bar spiral (E) 10-#9 v(E) bars Anchor Rod equally spaced Circle Diameter For details of anchor rods and positioning templates see Truss Support Post Base SECTION A-A Sheets OSF-A-4 and OSF-A-5. 3'-0" \$\phi shaft #4 bar spiral (E) 12-#8 v(E) bars equally spaced Anchor Rod Circle Diameter For details of anchor rods and positioning templates 3" cl. see Truss Support Post Base Sheets OSF-A-4 and SECTION B-B OSF - A - 5. 3'-6" & shaft 10-#9 v(E) bars equally spaced #4 bar spiral (E) #4 bar spiral (E) SECTION C-C 3'-0" \$ shaft 12-#8 v(E) bars equally spaced SECTION D-D

#### 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 (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 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 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".

		F	OUNDATION	V DATA TAE	BLE	***************************************			····
Structure Number	Station	Truss Type	Shaft Diameter	Elevation Top	Elevation Bottom	А	В	F	Class DS Concrete Cubic Yards
3F050I039R052.6	701+50	III-F-A	3′-6"	647.44	621.44	2′-0"	24'-0"	26′-0"	9.3
3F0501039L057.6	965+00	III-F-A	3′-6"	621.15	595.15	2'-0"	24'-0"	26'-0"	9.3
3F0501080L083.6	130+00	III-F-A	3′-6"	633.64	607.64	2'-0"	24'-0"	26′-0"	9.3
	<u> </u>				<del> </del>				

SCALE: \_

*OSF-A-9* 

1-20-11

ľ	FILE NAME =	USER NAME = patelyj	DESIGNED -	REVISED -
l	c:\pw.work\pwidot\patelyj\d0250292\D3669	28-sht-details.DGN	DRAWN -	REVISED -
١	PLOT SCALE = 99,9999 '/ 10,		CHECKED -	REVISED -
L		PLOT DATE = 2/23/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT	ERFLY	SIG	N	STF	UCT	JRES	- DR	ILLED	SHA	FT			F
	ALU	MIN	UN	1 T	RUSS	&	STEEL	POST				I	١
	SHEET	NO.	1	OF	I SHE	ETS	STA.	~~~~~~~~~		TO	STA.	 	

ì		ti i inote		
-			CONTRACT NO.	60020
-	VAR	D3 OVD MESSAGE SG - 2012	VAR 50	34
-	F.A.I. RTE.	SECTION	COUNTY TOTAL	SHEET S NO.

Illinois Department of Transportation Of Highways							-	5/17/11
ROUTE 1-39 DES	CRIPTION		1-39 No	orth Bound, MP 52.57, S	tation 701+50	LOGGED E	BY .	Larry Myers
SECTION D3 OVD Message SG-2012	LOCAT	TON	NW 1/	4. SEC. 2, TWP. 32N, R	NG. 1E			<del></del>
COUNTY <u>LaSalle</u> DRILLING I	METHOD	***************************************	Но	llow Stern Auger	HAMMER TYPE	CI	ME Auf	tomatic
STRUCT. NO.   3F050 039R052.6	D B E L P O T W H S (ff) (/6	U C S Qu ") (tsf)	M 0 1 S T	Surface Water Elev. Stream Bed Elev.  Groundwater Elev.: First Encounter Upon Completion After Hrs.  Hard Reddish Brown S Loam Till	Dry ft ft ft Clay		9 21	U M C O S I S Qu T (tsf) (%)
643.37 Pery Stiff Brown Silty Clay Loam Fill with Layers of Silt & Silty Loam	5 6 7	4.0 P	11.5	* Max Rimac @ 10; ** Max Rimac @ 5% *** Max Rimac @ 0%				11.5 8.7 S**
		2.0 P	17.6					11.5 7.6 S**
636.37 Hard Reddish Brown Silty Clay		3.0 P	12.5					12.1 9.4 5***
* Max Rimac @ 10%  ** Max Rimac @ 5%  *** Max Rimac @ 0%		4.5 S	9.5					12.1 9.3 S***
	7 - 12 - 14	10.9 S*	9.0					
	-15 8 14 14	11.5 S**	9.8	End of Boring	609			12.1 8.9 5***
	9 - 18 - 27	12.1 S***						
	-20	1				-40		

# **SOIL BORING LOG I–39 NB, MP 52.57, STATION 701+50**

REVISED -

REVISED -

REVISED -

DESIGNED - YOGESH PATEL

CHECKED - RON WOODSHANK

DATE

YOGESH PATEL

FILE NAME =

USER NAME = patelyj

PLOT SCALE = 99,9999 '/ In.

PLOT DATE = 2/23/2012

Illinois Departme of Transportation Olivision of Highways	nt 1	•	SOIL BORING LOG	Page	<u>1</u> of <u>1</u>
					5/16/11
ROUTE 1-39 DES	CRIPTION	1-39 So	outh Bound, MP 57.59, Station 965+00	_ LOGGED BY	Larry Myers
SECTION D3 OVD Message SG-2012	LOCATIO	N <u>SW 1/</u>	4, SEC. 12, TWP. 33N, RNG. 1E		·····
COUNTY <u>LaSaile</u> DRILLING M	ETHOD	Ho	Ilow Stem Auger HAMMER TYPE	CME AL	ıtomatic
STRUCT. NO. <u>3F050I039L057.6</u> Station <u>965+00</u>	D B E L P O	U M C O S I	Surface Water Elev. f Stream Bed Elev. f	D B E L P O	U M C O S I
BORING NO. 1 Station 965+00 Offset 85.00ff Lt.	T W H S	S Qu T	Groundwater Elev.: First Encounter	T W H S	S Qu T
Ground Surface Elev. <u>620.09</u> ft	(ft) (/6")	(tsf) (%)	After Hrs. f	(ft) (/6")	(tsf) (%)
Augered Shoulder Stone, Brown & Red Silty Clay/Silty Clay Loam Fill	_		Very Dense Buff to White Very Fine Sand Highly Weathered and Reworked Sand Stone (continued)	25 00/5	4.5
Very Stiff Red, Brown & Gray Silty Clay/Silty Clay Loam Fill — Red/Gray is Mine Dump (Red Dog)	3 3 4 5	2.5 20.1 P	Assumed Sand Stone Rock	97.59 00/5"	7.2
613.59	3 5 7	4.0 18.2 P			
Very Stiff Black to Brown Silty Clay Loam 612.59  Very Dense Buff to White Very Fine Sand Highly Weathered and Reworked Sand Stone	27 64 100/2"	3.9			
	20 100/5"	8.5			
	22 95 100/1"	4.5			
-		3.2			
-	20	7.6			

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

BBS, form 137 (Rev. 8-99)

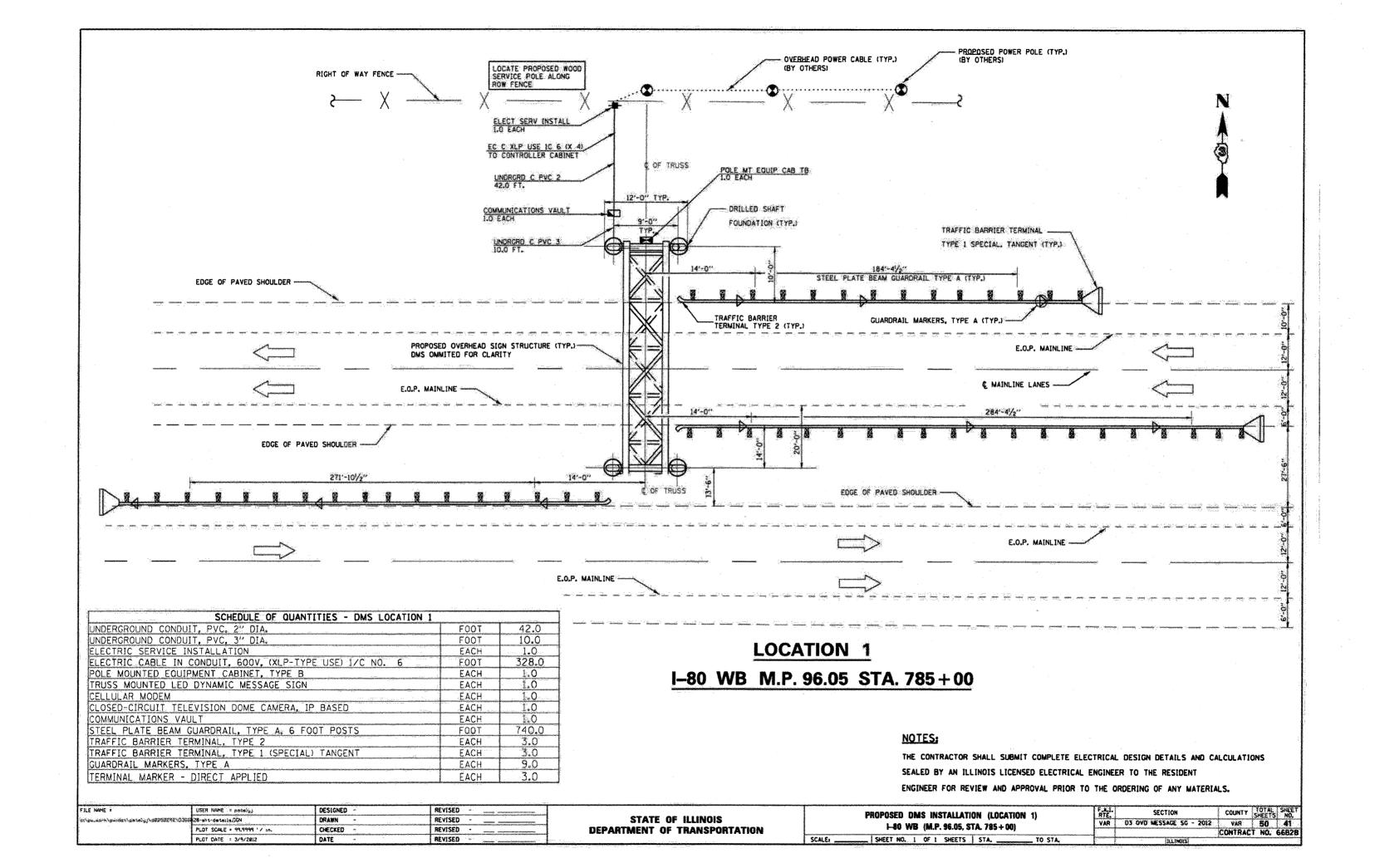
# **SOIL BORING LOG I–39 SB, MP 57.59, STATION 965+00**

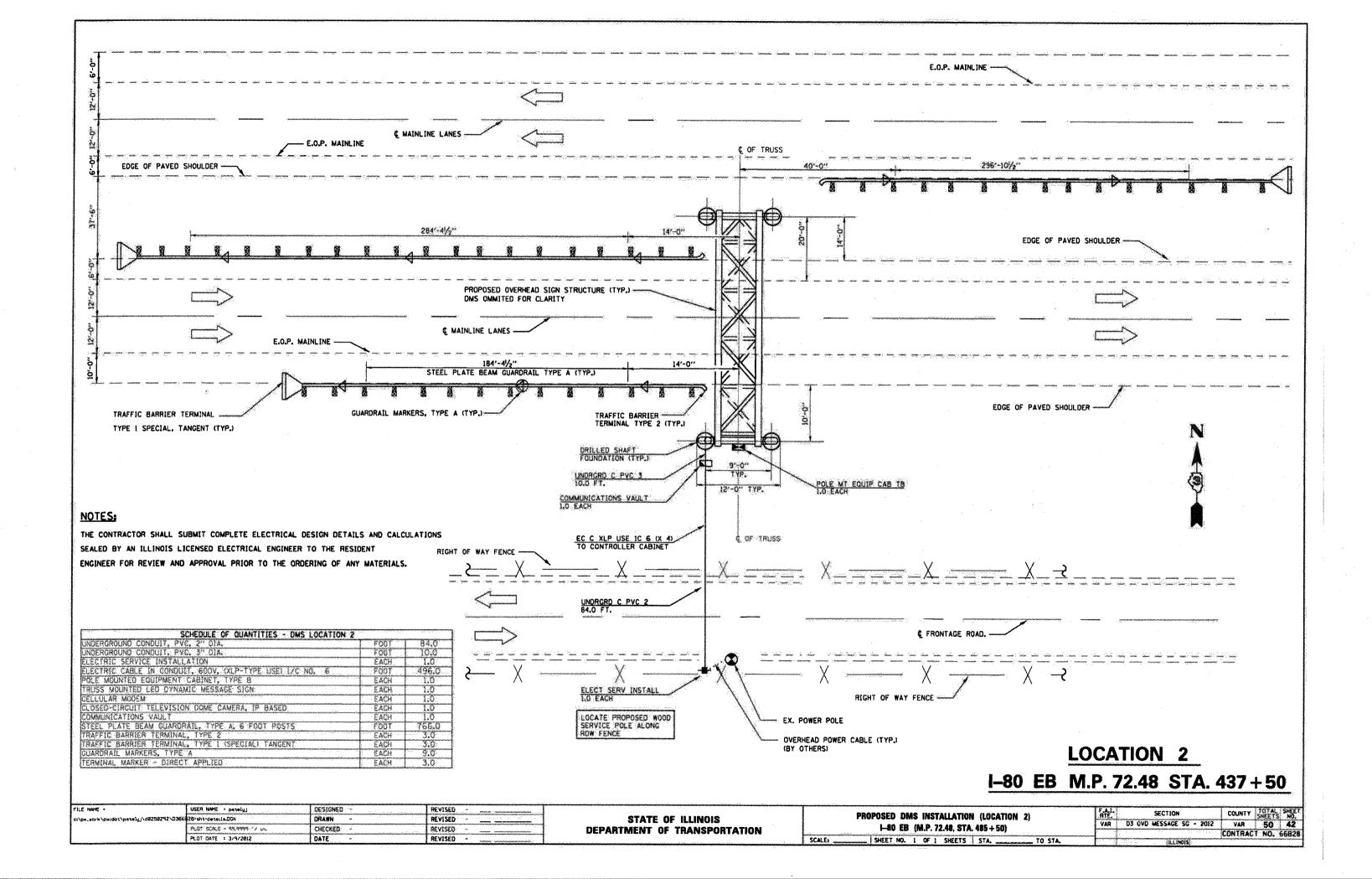
STATE OF ILLINOIS			301	I D	ORIN	G LOGS		F.A.I. RTE.	SECTION		TOTAL	SHEET NO.
DEPARTMENT OF TRANSPORTATION		•	וטכ	L D	Uniii	g rogs		VAR	D3 OVD MESSAGE SG - 2012	VAR	50 T NO.	740 66¤∠¤
	SCALE:	SHEET NO.	1 (	OF 1 5	HEETS	STA	TO STA.		[LLINOIS]	CONTINAC	1 1104	00020

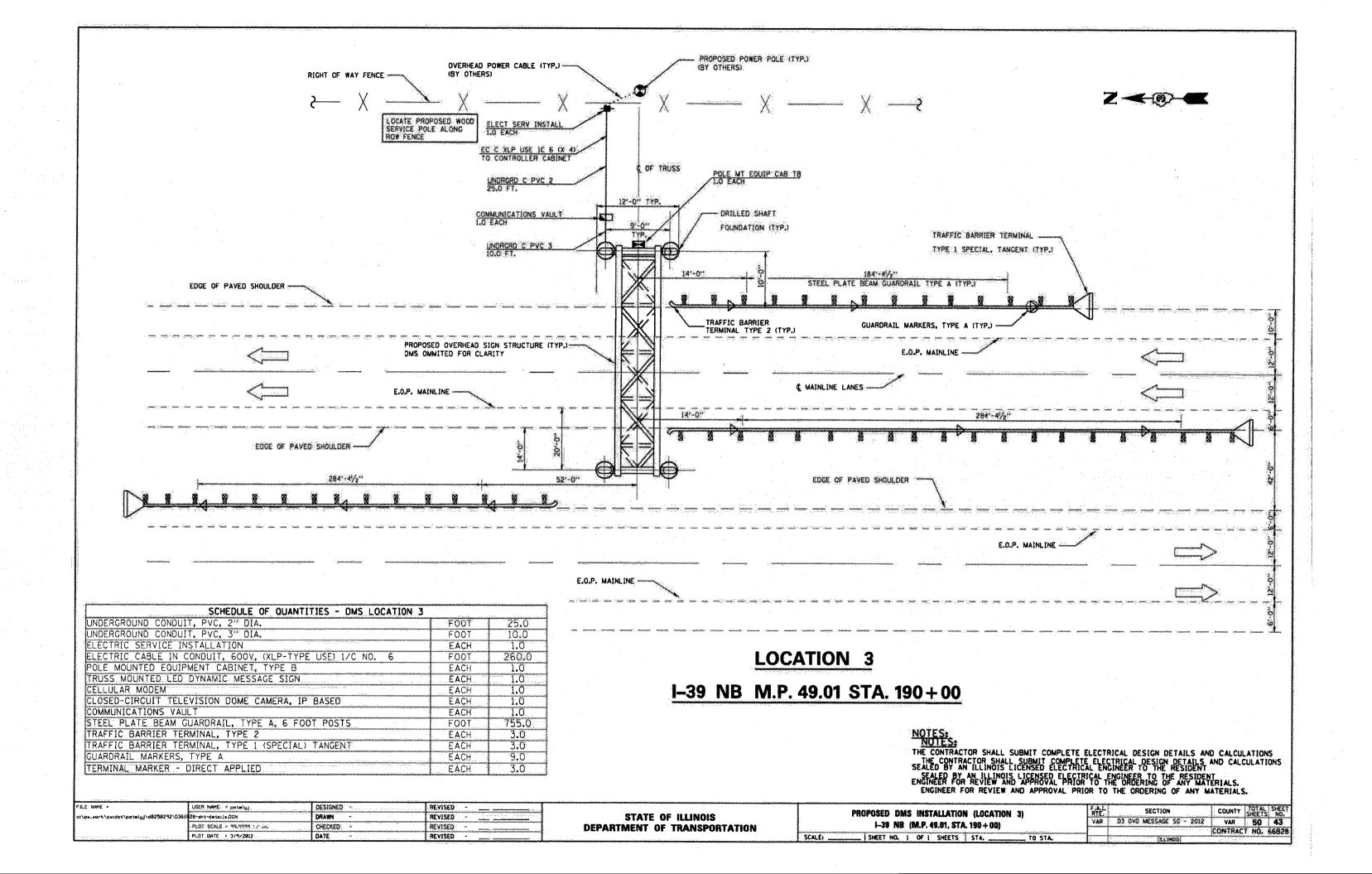
Illinois Departn of Transportati  Division of Highways ILLINOIS DOT  1-80		1 90 Wa	stbound, MP 83.60, Station 13	(0 / 00   T   1 000FF	Date1	
			4, SEC. 35, TWP. 34N, RNG. 2			rry Myers
COUNTY LaSaile DRILLIN						
			llow Stem Auger HA	·	CME Autom	
STRUCT. NO.         3F0501080L083.60           Station         130+00           BORING NO.         1           Station         130+00	D B E L P O T W H S	U M C O S I S S Qu T	Groundwater Elev.:	ft E P T H	B U L C O S W S Qu	0 1 S
Offset         62,00ft         Lt.           Ground         Surface         Elev.         634.14	ft (ft) (/6")	(tsf) (%)	Upon Completion After Hrs.	606.1 ft ft (ft)	(/6") (tst	f) (%)
Augered brown silty clay loam fill fill.			Hard gray silty clay loam til minor silt layers. Sand lay- ft. Potential boulders / col 27 ft to 30 ft.	I with ers at 28 obles at	9 17 7.2 22 S	2 15.8
Hard brown and gray silty clay loam till fill.	.64 6 7 9	4.5 11.5 P	Auger refusal at 30 ft. Ass boulder. (confinued)	sumed	8 16 6.3 20 S	1 I
Very stiff brown silty clay loess.		3.0 23.2 P			5 6 4.7 7 S	1 !
Very stiff brown and gray sility clay loam till with silt layers.	- 3 - 4 - 5	3.0 19.7 P			14 16 >4. 24 P	5 11.8
Hard brown silty clay loam till with sand and gravel layers.	.14 -10 6 6 5	4.1 12.5 S	End of Boring	604,0630		
	6 7 8	4.1 14.3 S				
Hard gray silty clay loam till with minor silt layers. Sand layers at 28 ft. Potential boulders / cobbles at 27 ft to 30 ft.		5.2 15.1 S		35		
Auger refusal at 30 ft. Assumed boulder.	8 12	6.1 14.7				
The Unconfined Compressive Strength (UC	18 	S				

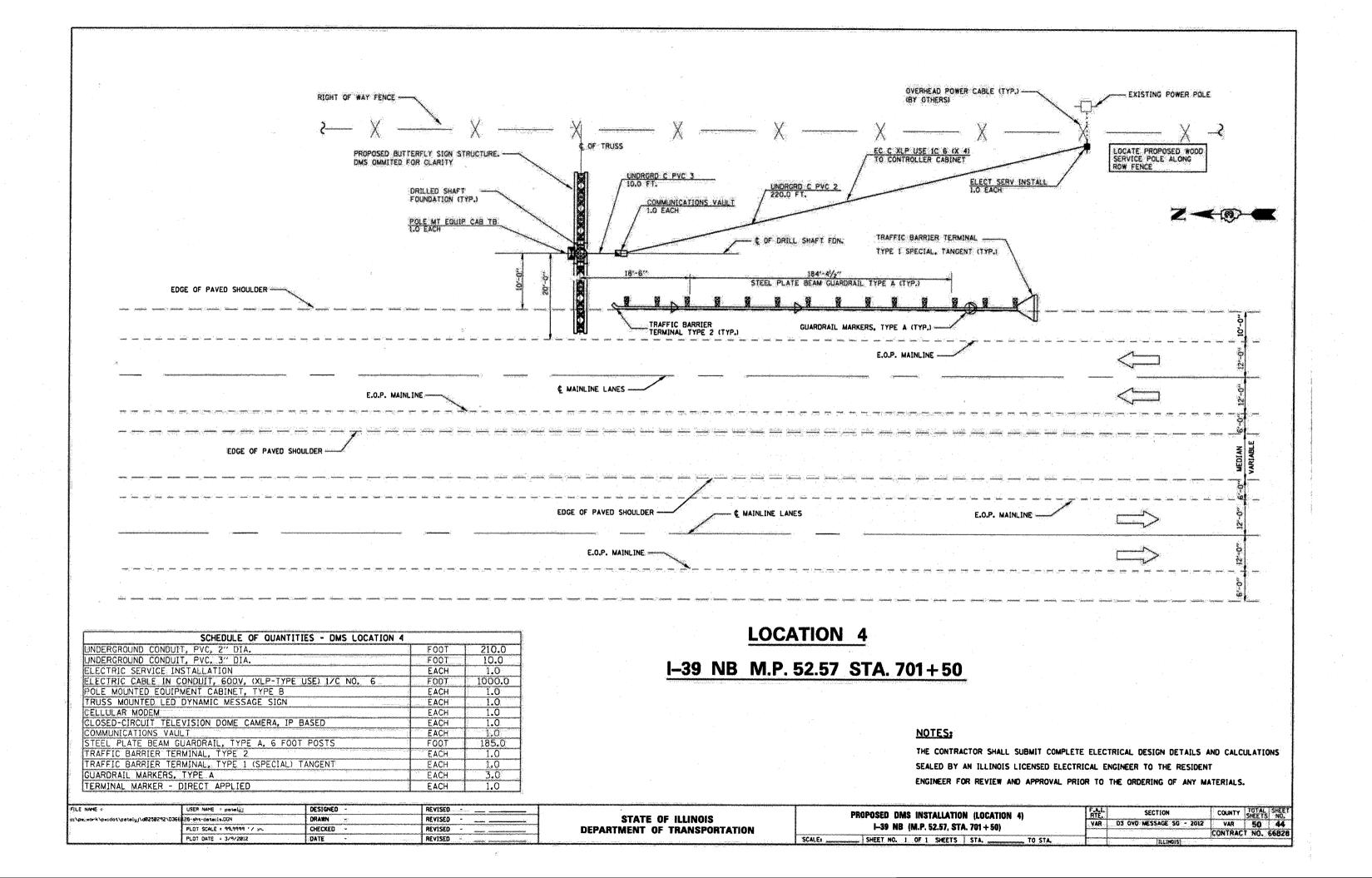
### <u>SOIL BORING LOG</u> <u>I–80 WB, MP 83.60, STATION 130+00</u>

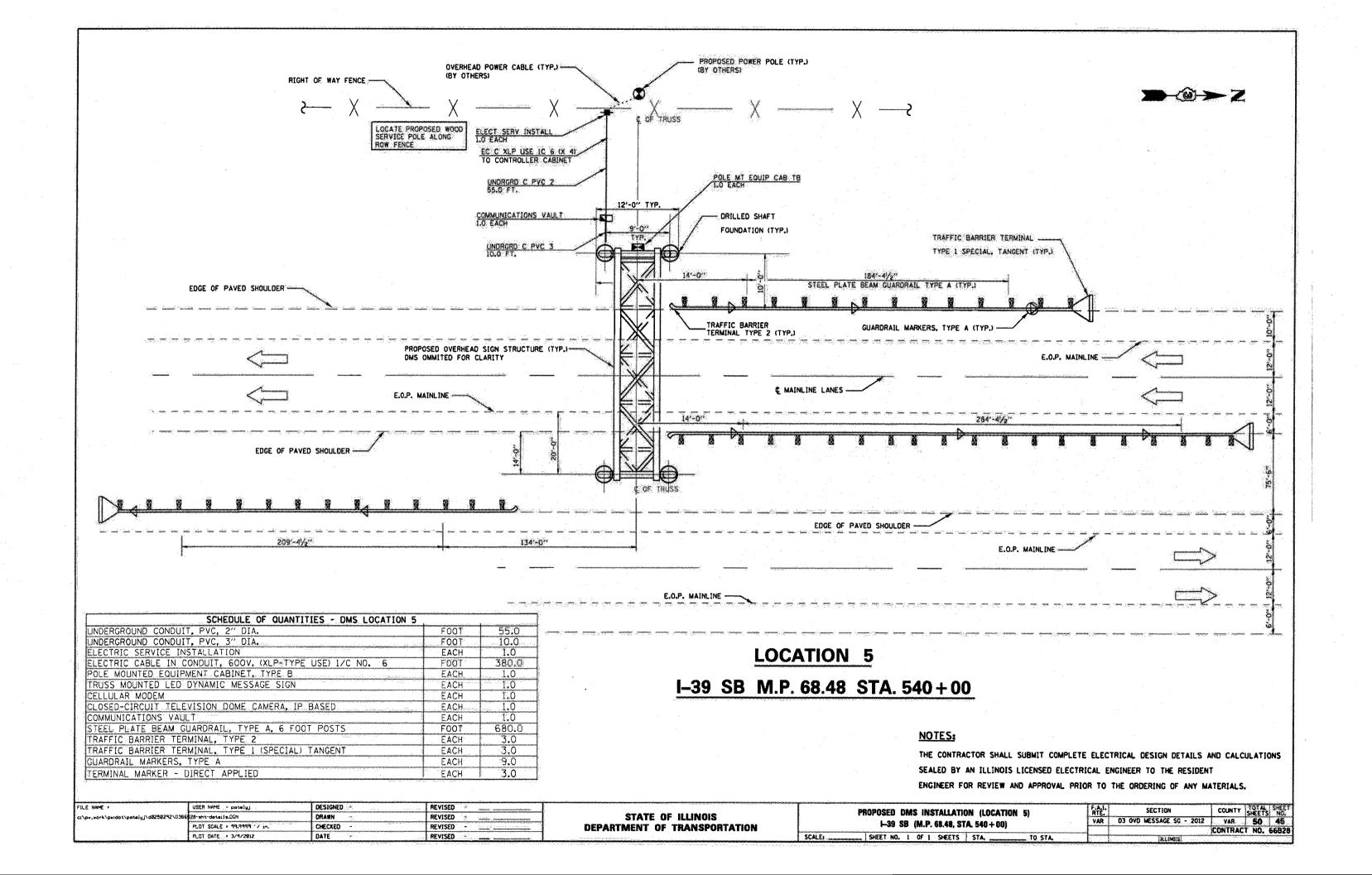
FILE NAME =	USER NAME = patelyj	DESIGNED - YOGESH PATEL	REVISED			F.A.I. CECTION CONTROL TOTAL SHEET
c:\pw_work\pwidat\patelyj\d0250292\03668	28-sht-deteils.DGN	DRAWN - YOGESH PATEL	REVISED -	STATE OF ILLINOIS	SOIL BORING LOGS	RTE. SECTION COUNTY SHEETS NO.
1	PLOT SCALE = 99.9999 '/ in.	CHECKED - RON WOODSHANK	REVISED -	DEPARTMENT OF TRANSPORTATION	0011 20111110 2000	VAR D3 OVD MESSAGE SG - 2012 VAR 50 40A
	PLOT DATE = 2/23/2012	DATE	REVISED -		SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.	CUNTRACT NO. 66B28

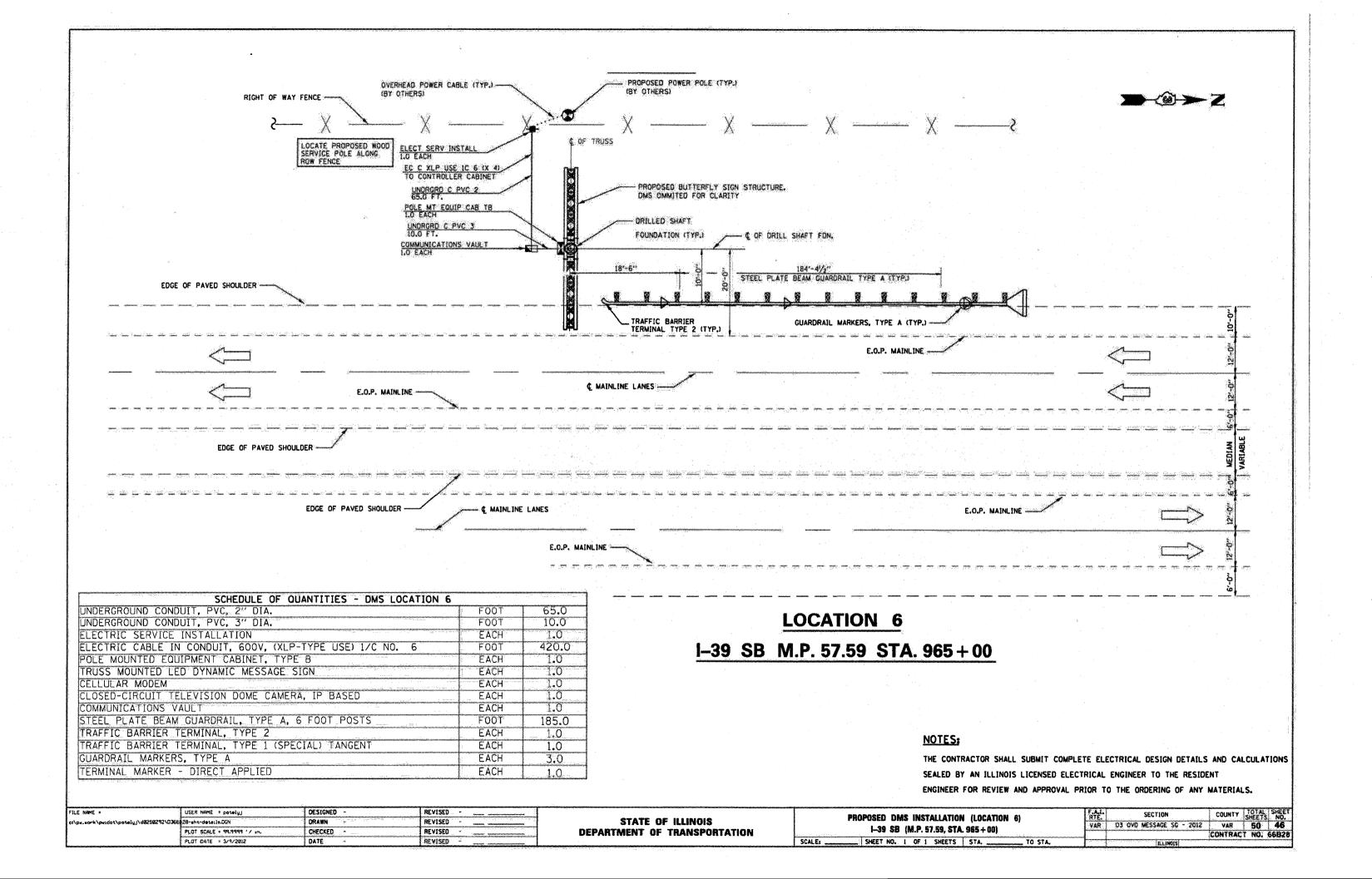


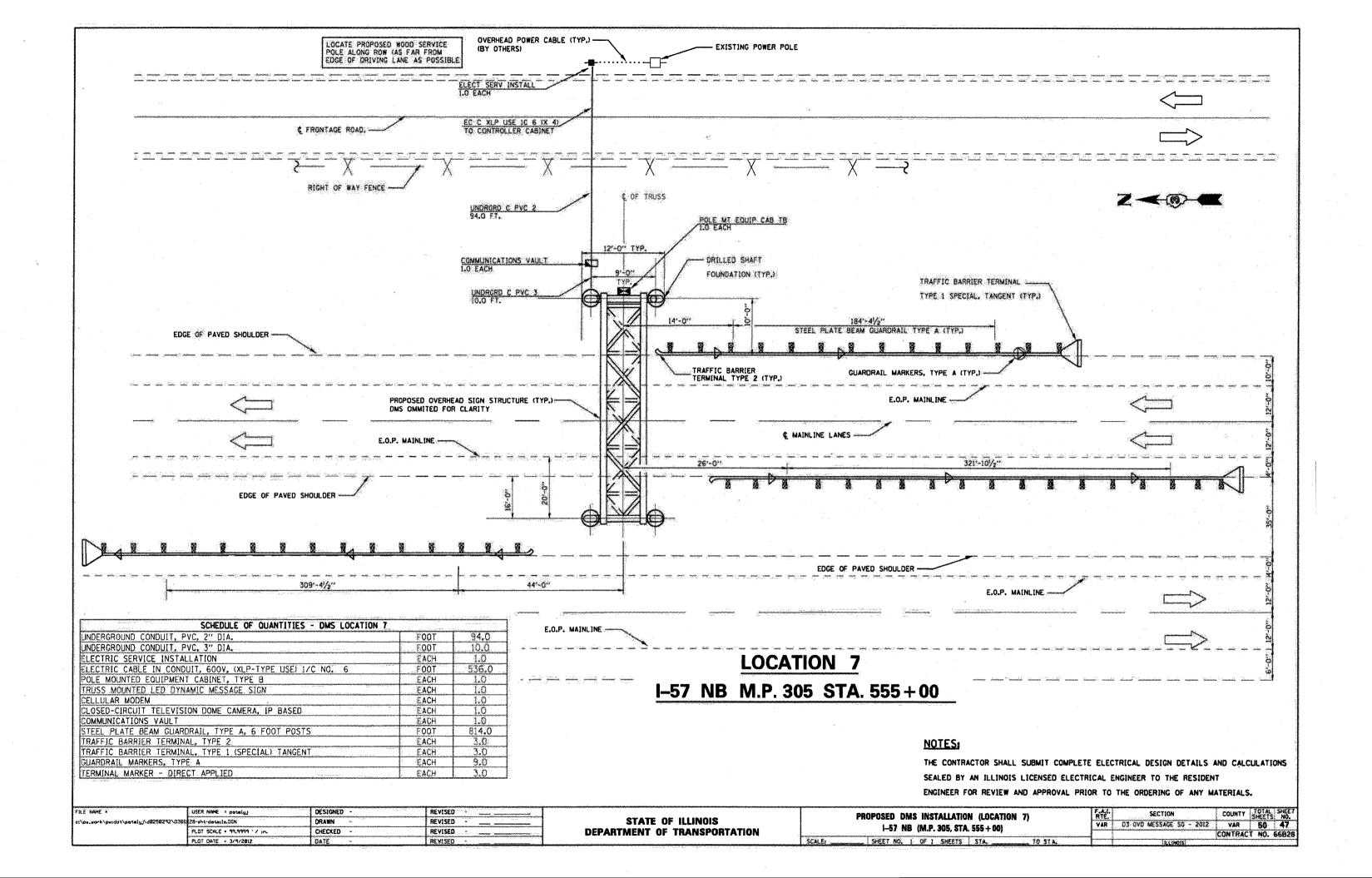


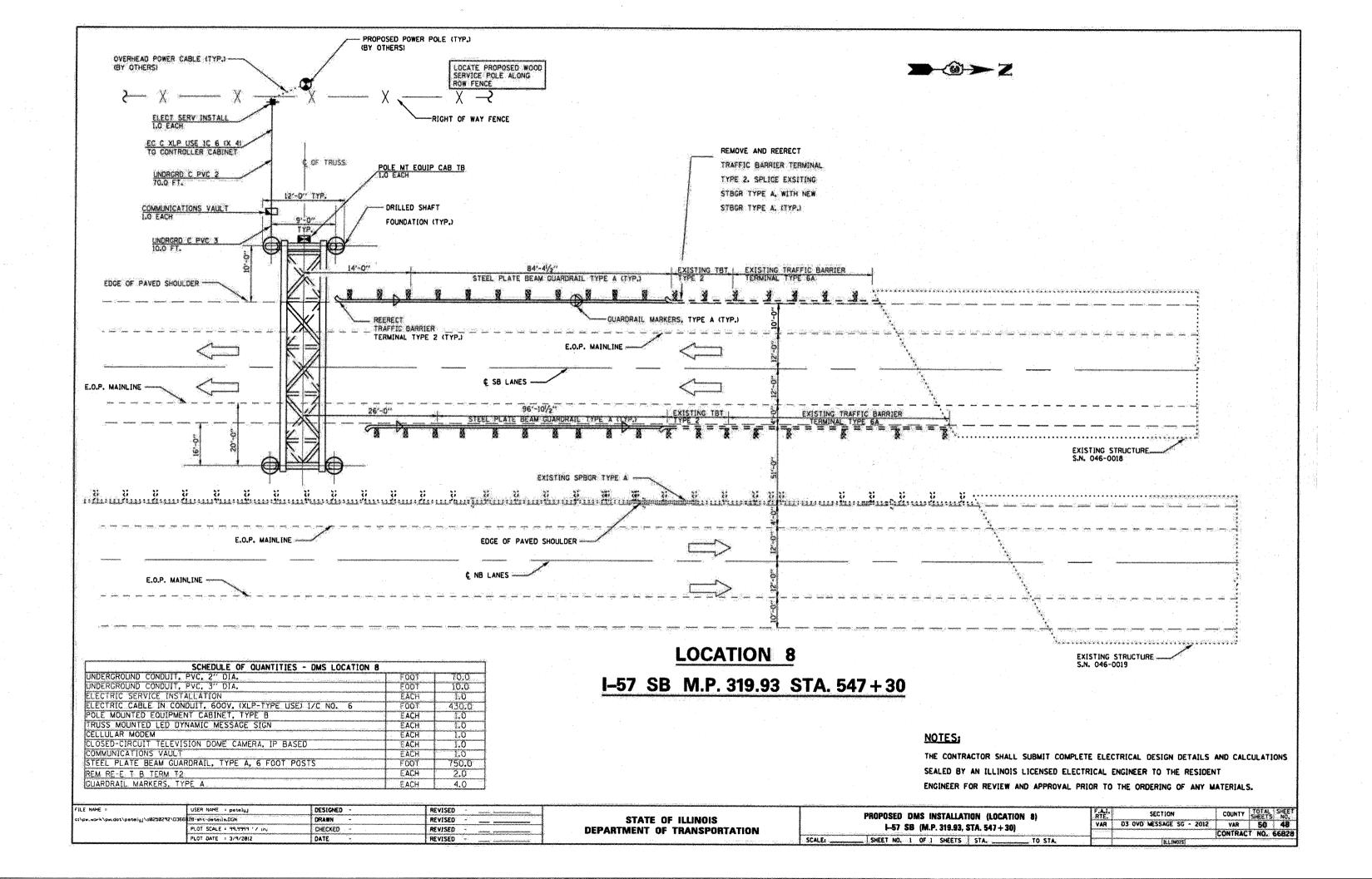


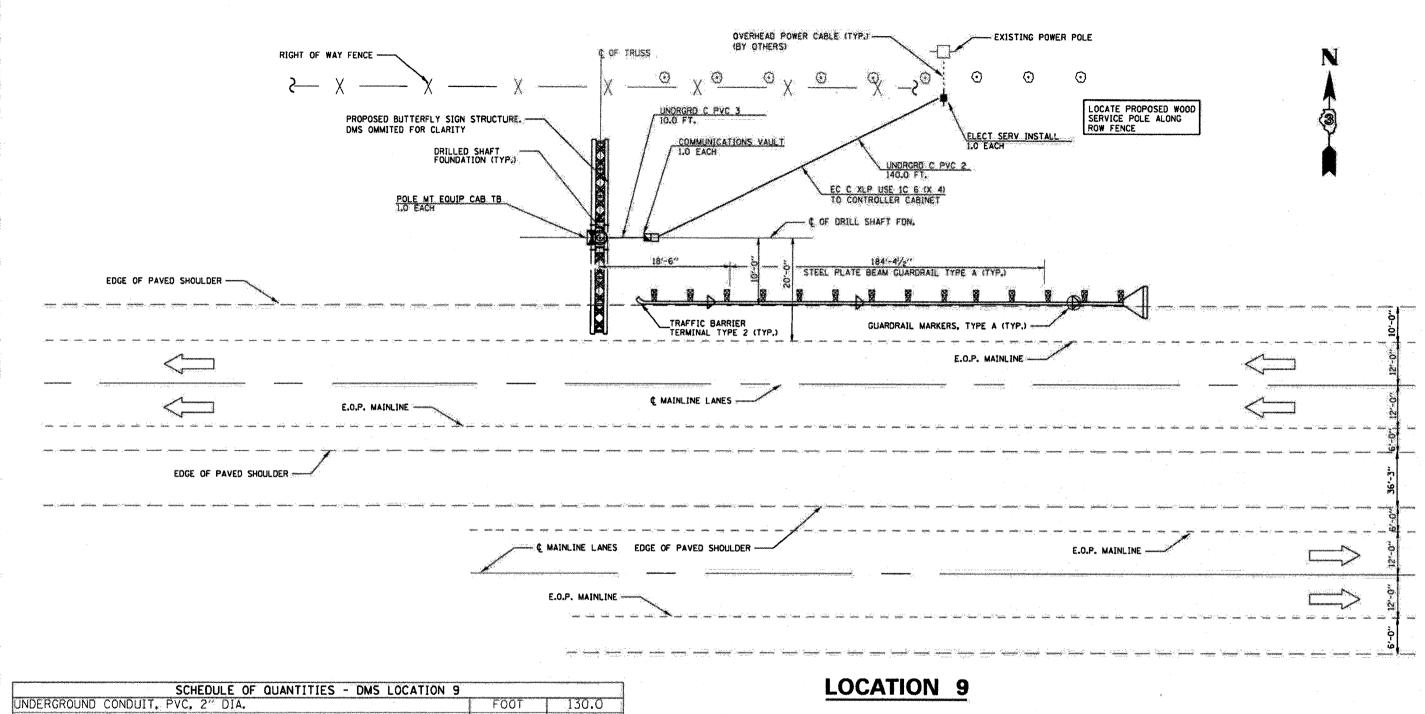












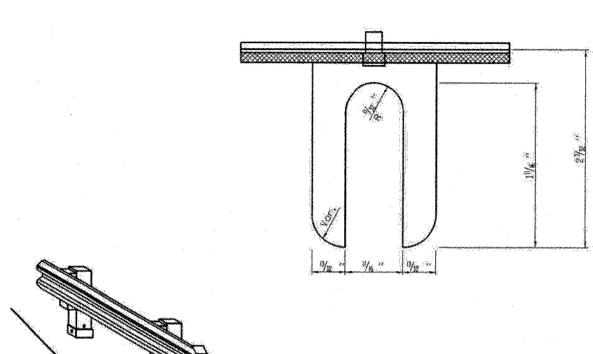
SCHEDULE OF QUANTITIES - DMS LOCATION 9		:
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	130.0
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	10.0
ELECTRIC SERVICE INSTALLATION	EACH	L:0
ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE) 1/C NO. 6	FOOT	680.0
POLE MOUNTED EQUIPMENT CABINET, TYPE B	EACH	1,0
TRUSS MOUNTED LED DYNAMIC MESSAGE SIGN	EACH	1,0
CELLULAR MODEM	EACH	1,0
CLOSED-CIRCUIT TELEVISION DOME CAMERA, IP BASED	EACH	1.0
STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	185.0
TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1,0
TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	1.0
GUARDRAIL MARKERS, TYPE A	EACH	3.0
TERMINAL MARKER - DIRECT APPLIED	EACH	1.0

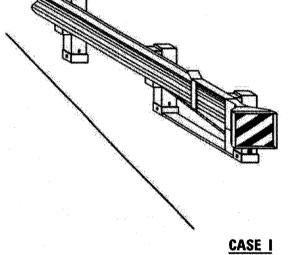
# I-80 WB M.P. 83.60 STA. 130+00

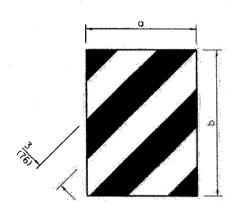
### NOTES:

THE CONTRACTOR SHALL SUBMIT COMPLETE ELECTRICAL DESIGN DETAILS AND CALCULATIONS SEALED BY AN ILLINOIS LICENSED ELECTRICAL ENGINEER TO THE RESIDENT ENGINEER FOR REVIEW AND APPROVAL PRIOR TO THE ORDERING OF ANY MATERIALS.

FILE NAME *	USER NAME = patalyj	DESIGNED *	REVISED -		PROPOSED DMS INSTALLATION (LOCATION 9)	RTE SECTION (	COUNTY SHEET
c1\pw.work\pwtdot\patalyJ\d0250292\D366	8-sht-details.DCN	DRAWN	REVISED	STATE OF ILLINOIS	1	VAR 03 OVO MESSAGE SG - 2012	VAR 50 49
	PLOT SCALE = 99,9999 '/ 10.	CHECKED -	REVISED	DEPARTMENT OF TRANSPORTATION	I-80 WB (M.P. 83.60, STA. 130+00)		ONTRACT NO. 66828
	PLOT DATE = 3/9/2012	DATE ~	REVISED *		SCALE: SHEET NO.   OF   SHEETS   STA TO STA.	TEL POIS	











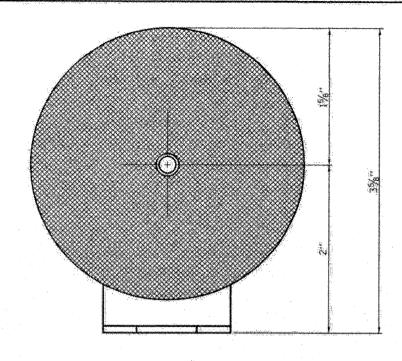
EFT

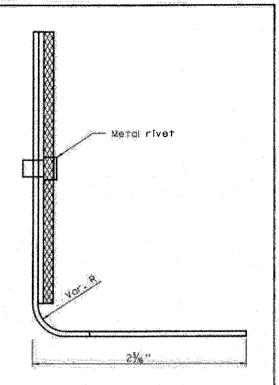
DIMENSION	CASE I
0	•
b	*

 The width and height (a, b) of the terminal marker shall be within approximately 1 (25) of the outer edge of the terminal end, with a minimum reflective area of 288 sq. in. (0.18 m²).

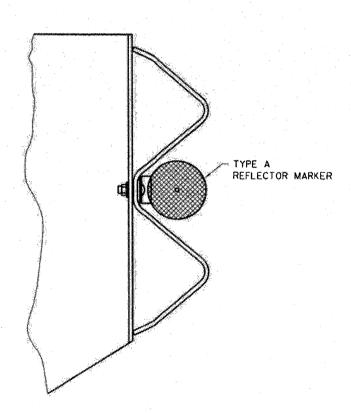
### TERMINAL MARKER DETAILS

Color: Black / Yellow reflectorized





### REFLECTOR MARKER TYPE A



TYPICAL MOUNTING WITH REFLECTOR

FILE NAME :	USER NAME in patelly:	DESIGNED:	REVISED : *
ci/pe_work/peidot/patelyj/d0256292\0366	20 decidatoria ISM	DRAWN -	REVISED +
	PLOT SCALE = 188.8798 '/ in.	CHECKED -	PEVISED *
ŀ	PLOT DATE . 3/8/2012	DATE -	REVISED *

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TERMINAL MARKER AND	RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
REFLECTOR MARKER DETAILS	VAR	D3 OVD MESSAGE SG - 2012	VAR	50 50
NLEI SHEET NO. 1 OF 1 SHEETS   STA TO STA.		Lands	LUNIKAL	T NO. 66828