07-31-2015 LETTING ITEM 001

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D1 OVH SIN STR REPL 15-10	VARIOUS	94	1
	ILLINOIS	CONTRACT NO. 46337		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

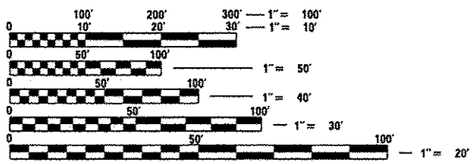
PROPOSED
HIGHWAY PLANS

VARIOUS ROUTES
SECTION: D1 OVD SIN STR REPL 15-10
D1 OVERHEAD SIGN STRUCTURE REPLACEMENT
VARIOUS COUNTIES

C-60-010-15

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE PROJECT IS LOCATED IN THE CITY OF CHICAGO, ELGIN, PROSPECT HEIGHTS AND THE VILLAGE OF WILLOW SPRINGS, JUSTICE, TINLEY PARK, WILMETTE, MEDINAH, WHEELING, ARLINGTON HEIGHTS, NORTHBROOK AND BURR RIDGE IN VARIOUS COUNTIES.



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

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

PROJECT ENGINEER: MATTHEW A DAEDA (847) 705-4157
PROJECT MANAGER: HUSSAIN MESYEF (847) 705-4470

CONTRACT NO. 46337

FOR LOCATION MAP
SEE SHEETS NO. 3

VARIOUS TOWNSHIPS

N

D-60-010-15

LOCATION OF SECTION INDICATED THUS:-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED May 5 20 15
Amy Ellen KDA
~~DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER~~
June 26 20 15 Acting Engineer of Operations
John D. Baranzelli P.E. by
acting ENGINEER OF DESIGN AND ENVIRONMENT
June 26 20 15
Omer Osman P.E. by
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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INDEX OF SHEETS

HIGHWAY STANDARDS

STD. NO.	TITLE
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
630001-10	STEEL PLATE BEAM GUARDRAIL
630301-06	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631011-09	TRAFFIC BARRIER TERMINAL, TYPE 2
631031-13	TRAFFIC BARRIER TERMINAL, TYPE 6
635001-01	SAND MODULE IMPACT ATTENUATORS
635006-03	DELINEATORS
643001-02	REFLECTOR AND TERMINAL MARKER PLACEMENT
701101-04	OFF-ROAD OPERATIONS, MULTILANE, 15 5/32 5/32 (4.5 M) TO 24 3/32 3/32 (600 MM) FROM PAVEMENT EDGE
701400-08	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-09	LANE CLOSURE, FREEWAY/EXPRESSWAY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS > 45 MPH
701421-07	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS > 45 MPH TO 55 MPH
701428	TRAFFIC CONTROL, SETUP AND REMOVAL, FREEWAY/EXPRESSWAY
701446-06	TWO LANE CLOSURE, FREEWAY/EXPRESSWAY
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701901-04	TRAFFIC CONTROL DEVICES
704001-07	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720021-02	SIGN PANELS, EXTRUDED ALUMINUM TYPE

GENERAL NOTES (CONTINUED)

WORK AT LOCATIONS NEAR THE CHICAGO EXECUTIVE AIRPORT WILL REQUIRE COORDINATION WITH THE FAA. THE CONTRACTOR IS RESPONSIBLE TO COMPLY WITH ALL FAA REQUIREMENTS WHEN PERFORMING WORK AT THESE LOCATIONS.

GENERAL NOTES

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

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

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.

THE CONTRACTOR SHALL CONTACT THE EXPRESSWAY TRAFFIC CONTROL SUPERVISOR AT (847) 705-4155 AND THE ARTERIAL TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 72 HOURS IN ADVANCE OF BEGINNING WORK.

THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL "J.U.L.I.E" AT (800) 892-0123 OR 811. IN THE CITY OF CHICAGO, CONTACT "DIGGER" AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOUR NOTIFICATION REQUIRED.)

IF THIS CONTRACT REQUIRES THE SERVICES OF AN ELECTRICAL CONTRACTOR, THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS/HER OWN EXPENSE FOR LOCATING EXISTING IDOT ELECTRICAL FACILITIES PRIOR TO PERFORMING ANY WORK. IF THIS CONTRACT DOES NOT REQUIRE THE SERVICES OF AN ELECTRICAL CONTRACTOR, THE CONTRACTOR MAY REQUEST ONE FREE LOCATE FOR EXISTING IDOT ELECTRICAL FACILITIES FROM THE DISTRICT ONE ELECTRICAL MAINTENANCE CONTRACTOR PRIOR TO THE START OF ANY WORK. ADDITIONAL REQUESTS MAY BE AT THE EXPENSE OF THE CONTRACTOR. THE LOCATION OF UNDERGROUND TRAFFIC FACILITIES DOES NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO REPAIR ANY FACILITIES DAMAGED DURING CONSTRUCTION AT THEIR EXPENSE.

THE CONTRACTOR SHALL CHECK THE PROPOSED OVERHEAD SIGN STRUCTURE LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIAL.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES AND IDOT.

THE CONTRACTOR SHALL VERIFY LOCATIONS WITH THE ENGINEER PRIOR TO BEGINNING WORK.

THE CONTRACTOR SHALL CONTACT THE DEPARTMENTS ELECTRICAL MAINTENANCE CONTRACTOR TO ARRANGE THE ELECTRICAL DISCONNECT FOR EACH LOCATION.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.

FOR OVERHEAD SIGN STRUCTURES, THE END SUPPORTS ARE INCLUDED IN THE COST OF THE OVERHEAD SPAN OR CANTILEVER STRUCTURE UNLESS OTHERWISE SPECIFIED

RESTORATION OF THE OVERHEAD SIGN TRUSS WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEMS AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

THIS PROJECT HAS RECEIVED AN IN-HOUSE ENVIRONMENTAL SIGN-OFF. UNLESS OTHERWISE NOTED IN THE PLANS, ANY SOIL EXCAVATED SHALL REMAIN ON SITE. THE CONTRACTOR SHALL SPREAD THE SOIL AT THE SAME LOCATION IT WAS EXCAVATED. THE GRADING SHALL BE DONE SO THAT THE EXISTING DITCH PROFILES AND WATER FLOW PATTERNS ARE MAINTAINED. THIS WORK SHALL BE INCLUDED IN THE RELATED PAY ITEMS, AND NO EXTRA COMPENSATION SHALL BE ALLOWED. THE FINAL GROUND SURFACE SHALL BE COVERED WITH TOPSOIL, SEED, AND EROSION CONTROL BLANKET FOR WHICH NOMINAL QUANTITIES HAVE BEEN PROVIDED.

DRILLED SHAFT CONCRETE FOUNDATION SOIL EXCAVATED FROM LOCATIONS ON PALATINE RD AND WILLOW RD, LOCATIONS 16 THROUGH 27, SHALL BE DISPOSED OF AT THE IDOT FACILITY IN THE NORTHEAST QUADRANT OF THE I-355 AND ARMY TRAIL ROAD INTERCHANGE. THE CONTRACTOR SHALL CONTACT THE DISTRICT 1 CENTRAL AREA OPERATIONS MANAGER AT (847) 705-4165 OR THE DISTRICT 1 LANDSCAPE ARCHITECT AT (847) 705-4172 TO GAIN ACCESS TO THE SITE.

SOME LOCATIONS MAY REQUIRE THE CONTRACTOR TO REMOVE, STORE, AND REINSTALL SIGN PANELS. STORAGE OF EXISTING SIGN PANELS SHALL NOT BE PAID FOR SEPARATELY, BUT COSTS SHALL BE INCLUDED IN THE REMOVE AND REINSTALL PAY ITEM.

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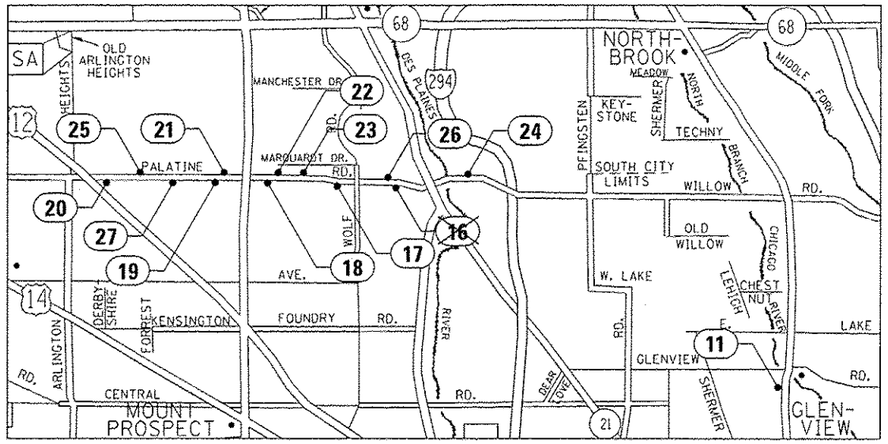
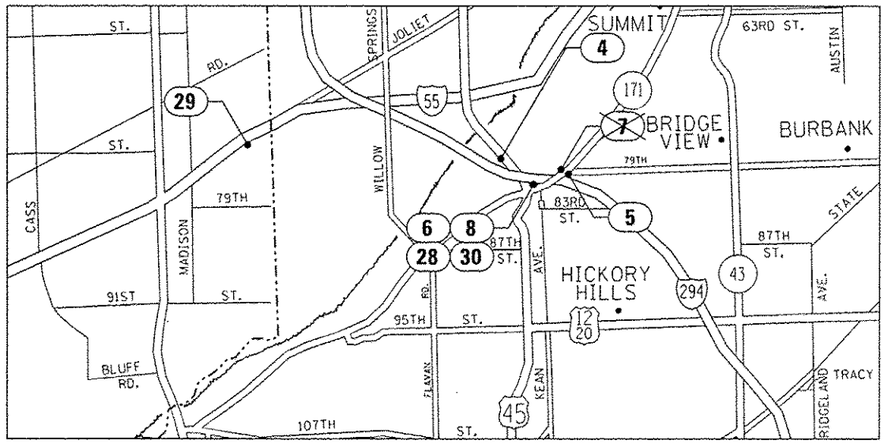
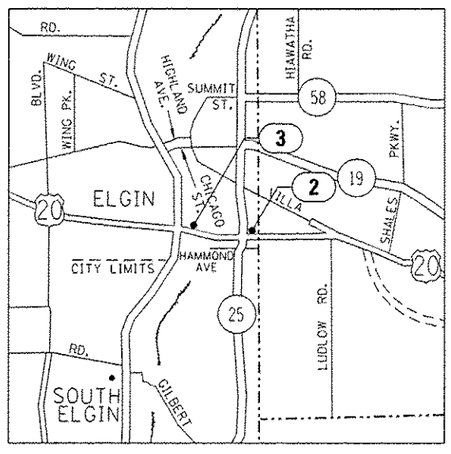
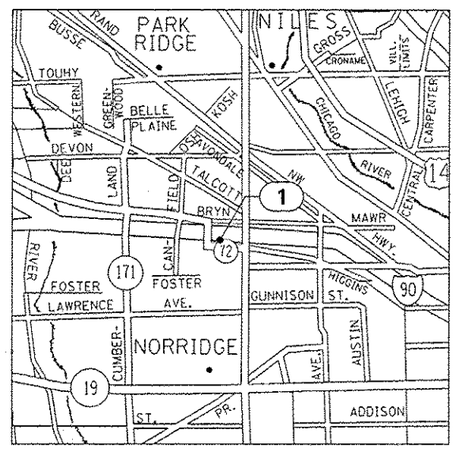
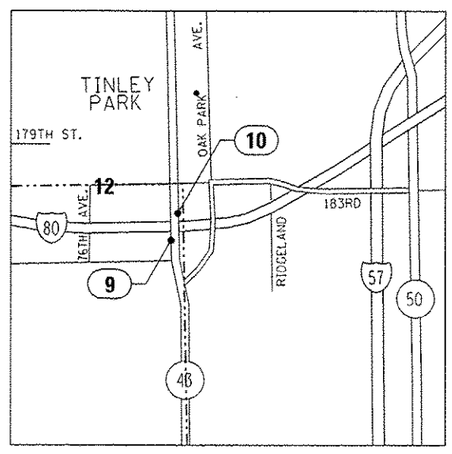
		DRAWN -	REVISED - MD 06/29/2015				01 OVH SIN STR REPL 15-10	VARIOUS	94	2
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 46337		
Default	PLOT DATE = 7/6/2015	DATE -	REVISED -		SCALE:	SHEET OF SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT		











LOC. NO.	LOCATION NAME	STRUCTURE NO.	CLASIFICATION	ADT (YEAR)	POSTED SPEED	MUNICIPALITY	COUNTY
1	EB KENNEDY TO EXIT TO HARLEM AVE	1S016I090R080.8-000	EXPRESSWAY	196,100 (2013)	55	CHICAGO	COOK
2	WB US-20 EXIT TO IL-25	1C045U020L000.0-001	ARTERIAL	43,100 (2011)	55	ELGIN	KANE
3	WB US-20 EXIT TO IL-31	1C045U020L000.0-002	ARTERIAL	43,100 (2011)	55	ELGIN	KANE
4	SB LA GRANGE RD N OF I-294	1S016U045L000.0-000	ARTERIAL	76,200 (2013)	45	WILLOW SPRINGS	COOK
5	NB IL-171 W OF 79TH ST	1S016I171R000.0-004	ARTERIAL	16,000 (2013)	45	JUSTICE	COOK
6	SB IL-171 RAMP TO NB LAGRANGE/SB I-294	1S016S171L000.0-002	ARTERIAL	14,200 (2010)	45	WILLOW SPRINGS	COOK
~~7~~	~~SB IL-171 AT NB LAGRANGE/SB I-294~~	~~1S016S171L000.0-000~~	~~ARTERIAL~~	~~14,200 (2010)~~	~~45~~	~~JUSTICE~~	~~COOK~~
8	SB LAGRANGE TO NB IL-171	1S016S171R000.0-003	ARTERIAL	18,500 (2006)	45	WILLOW SPRINGS	COOK
9	SB IL-43 RAMP TO EB I-80	1C099I080R148.9-000	ARTERIAL	35,600 (2013)	45	TINLEY PARK	WILL
10	NB IL-43 RAMP TO WB I-80	1C016I080L148.0-000	ARTERIAL	35,600 (2013)	45	TINLEY PARK	COOK
11	SB EDENS EXIT TO OLD ORCHARD RD	1C016I094R035.5-000	EXPRESSWAY	141,200 (2013)	55	WILMETTE	COOK
~~12~~	~~EB I-80 AT IL-43~~	~~1B099I080R148.9-000~~	~~EXPRESSWAY~~	~~83,400 (2013)~~	~~65~~	~~TINLEY PARK~~	~~WILL~~
~~13~~	~~WB I-80 AT IL-43~~	~~1B016I080L148.9-000~~	~~EXPRESSWAY~~	~~83,400 (2013)~~	~~65~~	~~TINLEY PARK~~	~~COOK~~
~~14~~	~~NB I-355 SOUTH OF I-290~~	~~1S022I355R031.6-000~~	~~EXPRESSWAY~~	~~140,000 (2013)~~	~~55~~	~~MEDINAH~~	~~DUPAGE~~
~~15~~	~~NB I-355 NORTH OF US-20~~	~~1S022I355R031.5-000~~	~~EXPRESSWAY~~	~~140,000 (2013)~~	~~55~~	~~MEDINAH~~	~~DUPAGE~~
~~16~~	~~EB PALATINE RD EXIT TO MILWAUKEE/US-45/IL-21~~	~~1C016L000R000.0-000~~	~~ARTERIAL~~	~~33,000 (2010)~~	~~55~~	~~PROSPECT HEIGHTS~~	~~COOK~~
17	EB PALATINE RD AT WOLF RD	1C016L000R000.0-001	ARTERIAL	35,500 (2010)	55	WHEELING	COOK
18	EB PALATINE AT WHEELING	1C016L000R000.0-002	ARTERIAL	35,500 (2010)	45	PROSPECT HEIGHTS	COOK
19	EB PALATINE RD AT ELMHURST/IL-83	1C016L000R000.0-003	ARTERIAL	30,400 (2010)	45	PROSPECT HEIGHTS	COOK
20	EB PALATINE AT WINDSOR	1C016L000R000.0-005	ARTERIAL	30,400 (2010)	45	ARLINGTON HEIGHTS	COOK
21	WB PALATINE AT SCHOENBECK RD	1C016L000L000.0-001	ARTERIAL	30,400 (2010)	45	PROSPECT HEIGHTS	COOK
22	WB PALATINE RD AT ELMHURST/IL-83	1C016L000L000.0-002	ARTERIAL	35,500 (2010)	45	WHEELING	COOK
23	WB PALATINE RD AT WHEELING	1C016L000L000.0-003	ARTERIAL	35,500 (2010)	45	WHEELING	COOK
24	WB WILLOW AT MILWAUKEE/US-45/IL-21	1C016L000L000.0-005	ARTERIAL	45,700 (2010)	55	NORTHBROOK	COOK
25	WB PALATINE RD AT WINDSOR	1C016L000L000.0-000	ARTERIAL	30,400 (2010)	45	ARLINGTON HEIGHTS	COOK
26	WB PALATINE AT WOLF	1C016L000L000.0-004	ARTERIAL	33,000 (2010)	55	PROSPECT HEIGHTS	COOK
27	EB PALATINE RD AT SCHOENBECK	1C016L000R000.0-004	ARTERIAL	30,400 (2010)	45	ARLINGTON HEIGHTS	COOK
28	NB IL-171 AT I-294	1S016S171R000.0-002	ARTERIAL	15,300 (2013)	45	JUSTICE	COOK
29	NB I-55 AT COUNTY LINE RD	1S022I055R276.1-000	EXPRESSWAY	162,200 (2013)	55	BURR RIDGE	DUPAGE
30	SB IL-171 W RAMP TO NB LAGRANGE	1S016S171L000.0-001	ARTERIAL	14,200 (2010)	45	JUSTICE	COOK
~~31~~	~~NB I-355 AT US-20~~	~~1S022I355R031.2-000~~	~~EXPRESSWAY~~	~~140,000 (2013)~~	~~55~~	~~MEDINAH~~	~~DUPAGE~~
~~32~~	~~SB EDENS AT LAKE ST~~	~~1B016I094R034.6-000~~	~~EXPRESSWAY~~	~~136,700 (2013)~~	~~55~~	~~WILMETTE~~	~~COOK~~

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION MAPS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D1 OVH SIN STR REPL 15-10	VARIOUS	94	3
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			

				CONSTRUCTION CODE - 0040					
				100% STATE	100% STATE	100% STATE	100% STATE		
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	COOK	DUPAGE	KANE	WILL		
				URBAN	URBAN	URBAN	URBAN		
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	2800	40	2720	20	20		
25000210	SEEDING, CLASS 2A	ACRE	0.6	0.008	0.584	0.004	0.004		
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	100	0.8	98.4	0.4	0.4		
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	100	0.8	98.4	0.4	0.4		
25100115	MULCH, METHOD 2	ACRE	0.5		0.5				
25100630	EROSION CONTROL BLANKET	SQ YD	296	40	216	20	20		
28000305	TEMPORARY DITCH CHECKS	FOOT	2		2				
28000400	PERIMETER EROSION BARRIER	FOOT	269		269				
28000510	INLET FILTERS	EACH	4		4				
44001980	CONCRETE BARRIER REMOVAL	FOOT	78		78				
48101620	AGGREGATE SHOULDERS, TYPE B 10"	SQ YD	21	21					
50102400	CONCRETE REMOVAL	CU YD	9		9				
58700300	CONCRETE SEALER	SQ FT	858		858				
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	154	154					

* SPECIALTY ITEMS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	01 OVH SIN STR REPL 15-10	VARIOUS	94	4
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE - 0040					
					100% STATE	100% STATE	100% STATE	100% STATE		
					COOK	DUPAGE	KANE	WILL		
					URBAN	URBAN	URBAN	URBAN		
*	63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1	1					
*	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	12	12					
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	1	1					
	63200310	GUARDRAIL REMOVAL	FOOT	440	440					
	63700255	CONCRETE BARRIER, DOUBLE FACE, 32 INCH HEIGHT	FOOT	76.8		76.8				
	64300240	IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	1	1					
	64300450	IMPACT ATTENUATORS (NON-REDIRECTIVE), TEST LEVEL 3	EACH	1			1			
	64301090	ATTENUATOR BASE	SQ YD	27.3			27.3			
	67100100	MOBILIZATION	L SUM	1	0.25	0.25	0.25	0.25		
	70100310	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	L SUM	1	0.34		0.33	0.33		
	70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	0.34		0.33	0.33		
	70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1	0.25	0.25	0.25	0.25		
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	750	150	600				
	70600251	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2		2				

* SPECIALTY ITEMS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
(SHEET 2 OF 5)

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D1 OVH SIN STR REPL 15-10	VARIOUS	94	5
		CONTRACT NO. 46337		
	ILLINOIS	FED. AID PROJECT		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE - 0040					
				100% STATE	100% STATE	100% STATE	100% STATE		
				COOK	DUPAGE	KANE	WILL		
				URBAN	URBAN	URBAN	URBAN		
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1	1					
72000300	SIGN PANEL - TYPE 3	SQ FT	3865.5	3175.25	512.5	90.25	87.5		
72400330	REMOVE SIGN PANEL - TYPE 3	SQ FT	1237	1237					
72400720	RELOCATE SIGN PANEL - TYPE 2	SQ FT	12	12					
72700100	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	540			540			
73300100	OVERHEAD SIGN STRUCTURE - SPAN, TYPE I-A (4'-0" X 4'-6")	FOOT	69.5	69.5					
73300300	OVERHEAD SIGN STRUCTURE - SPAN, TYPE III-A (5'-0" X 7'-0")	FOOT	112		112				
73301810	OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	FOOT	343	343					
73302110	OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE I-C-A (24" X 4'-6")	FOOT	216	216					
73302170	OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE II-C-A (36" X 5'-6")	FOOT	57	27			30		
73302210	OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE III-C-A (36" X 7'-0")	FOOT	67	37		30			
73400100	CONCRETE FOUNDATIONS	CU YD	1.4			1.4			
73400200	DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	138.2	75.2	46	10.2	6.8		
73600100	REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	1	1					

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* SPECIALTY ITEMS

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	PLOT DATE = 4/28/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
(SHEET 3 OF 5)

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D1 OVH SIN STR REPL 15-10	VARIOUS	94	6
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE - 0040					
				100% STATE	100% STATE	100% STATE	100% STATE		
				COOK	DUPAGE	KANE	WILL		
				URBAN	URBAN	URBAN	URBAN		
73600200	REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	16	13		2	1		
73602000	REMOVE OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED	EACH	2		2				
73700100	REMOVE GROUND MOUNTED SIGN SUPPORT	EACH	1		1				
73700300	REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	16	13		2	1		
73800100	STRUCTURAL STEEL SUPPORT FOR OVERHEAD SIGN STRUCTURE - SPAN	EACH	10	10					
73801100	REMOVE AND REERECT OVERHEAD SIGN STRUCTURE-SPAN	EACH	5	5					
78200410	GUARDRAIL MARKERS, TYPE A	EACH	4	4					
78200530	BARRIER WALL MARKERS, TYPE C	EACH	60	12	48				
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	1	1					
84200600	REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	25	25					
X0100003	CLEARING AND GRUBBING	SQ YD	470	470					
X0325265	REMOVE ELECTRIC SERVICE	EACH	5	3	1		1		
X2600014	FURNISH AND INSTALL SADDLE SHIM BLOCK	EACH	24	24					
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	0.5	0.25		0.25		

* SPECIALTY ITEMS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
(SHEET 4 OF 5)

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DI OVH SIN STR REPL 15-10	VARIOUS	94	7
		CONTRACT NO. 46337		
	ILLINOIS	FED. AID PROJECT		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE – 0040					
				100% STATE	100% STATE	100% STATE	100% STATE		
				COOK	DUPAGE	KANE	WILL		
				URBAN	URBAN	URBAN	URBAN		
X7200075	REMOVE AND REINSTALL SIGN PANEL	SQ FT	654.5	438.5	141	75			
X7330070	OVERHEAD SIGN SUPPORT GROUT REPAIR	EACH	20	20					
X7330094	*INTERNAL TRUSS DAMPER*	EACH	5	5					
X7330220	OVERHEAD SIGN STRUCTURE, TYPE II - TRUSS ONLY	FOOT	86.5	86.5					
X7340105	REBUILD CONCRETE FOUNDATION FOR OVERHEAD SIGN STRUCTURE	EACH	2	2					
X7360300	REMOVE OVERHEAD SIGN STRUCTURE - WALKWAY	FOOT	243	243					
X7380015	REMOVE OVERHEAD SIGN STRUCTURE- TRUSS ONLY	FOOT	1	1					
X9900011	RELOCATE IMPACT ATTENUATOR (FULLY REDIRECTIVE, RESETTABLE), TEST LEVEL 3	EACH	3	3					
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.25	0.25	0.25	0.25		
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	100	100					
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1					

* SPECIALTY ITEMS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
(SHEET 5 OF 5)

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DI OVH SIN STR REPL 15-10	VARIOUS	94	8
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			

LOCATION NO.	1	STATE I.D. NO.		1S016I090R080.8	
COUNTY: COOK	ROUTE: I-90	M.P.: 80.8	DIRECTION: EB		

PAY ITEM DESCRIPTION	UNIT	QTY
TEMPORARY CONCRETE BARRIER	FOOT	150
IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1
OVERHEAD SIGN STRUCTURE - SPAN, TYPE I-A (4'-0" X 4'-6")	FOOT	69.5
REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	1
REMOVE AND REINSTALL SIGN PANEL	SQ FT	302
REBUILD CONCRETE FOUNDATION FOR OVERHEAD SIGN STRUCTURE	EACH	2
TEMPORARY INFORMATION SIGNING	SQ FT	100
RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1
BARRIER WALL MARKERS, TYPE C	EACH	12

LOCATION NO.	2	STATE I.D. NO.		1C045U020L000.0-001	
COUNTY: KANE	ROUTE: US-20	M.P.: -	DIRECTION: WB		

PAY ITEM DESCRIPTION	UNIT	QTY
IMPACT ATTENUATORS (NON-REDIRECTIVE), TEST LEVEL 3	EACH	1
ATTENUATOR BASE	SQ YD	27.3
OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE III-C-A (36" X 7'-0")	FOOT	30
DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	10.2
REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	1
REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	1
REMOVE AND REINSTALL SIGN PANEL	SQ FT	75
TOPSOIL FURNISH AND PLACE 4"	SQ YD	20
SEEDING CLASS 2A	ACRE	.004
NITROGEN FERTILIZER NUTRIENT	POUND	.4
POTASSIUM FERTILIZER NUTRIENT	POUND	.4
EROSION CONTROL BLANKET	SQ YD	20

LOCATION NO.	3	STATE I.D. NO.		1C045U020L000.0-002	
COUNTY: KANE	ROUTE: US-20	M.P.: -	DIRECTION: WB		

PAY ITEM DESCRIPTION	UNIT	QTY
SIGN PANEL - TYPE 3	SQ FT	90.25
STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	540
CONCRETE FOUNDATIONS	CU YD	1.4
REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	1
REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	1

LOCATION NO.	4	STATE I.D. NO.		1S016U045L000.0-000	
COUNTY: COOK	ROUTE: US-45	M.P.: -	DIRECTION: SB		

PAY ITEM DESCRIPTION	UNIT	QTY
SIGN PANEL - TYPE 3	SQ FT	596
REMOVE SIGN PANEL - TYPE 3	SQ FT	423
OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	FOOT	70
STRUCTURAL STEEL SUPPORT FOR OVERHEAD SIGN STRUCTURE - SPAN	EACH	2
REMOVE AND REERECT OVERHEAD SIGN STRUCTURE-SPAN	EACH	1
REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	8
OVERHEAD SIGN SUPPORT GROUT REPAIR	EACH	4
REMOVE OVERHEAD SIGN STRUCTURE - WALKWAY	FOOT	55
CLEARING AND GRUBBING	SQ YD	68
FURNISH AND INSTALL SADDLE SHIM BLOCK	EACH	4
FURNISH AND INSTALL TRUSS DAMPER	EACH	1

LOCATION NO.	5	STATE I.D. NO.		1S016I171R000.0-004	
COUNTY: COOK	ROUTE: IL-171	M.P.: -	DIRECTION: NB		

PAY ITEM DESCRIPTION	UNIT	QTY
SIGN PANEL - TYPE 3	SQ FT	208.5
REMOVE SIGN PANEL - TYPE 3	SQ FT	180.25
OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	FOOT	68
STRUCTURAL STEEL SUPPORT FOR OVERHEAD SIGN STRUCTURE - SPAN	EACH	2
REMOVE AND REERECT OVERHEAD SIGN STRUCTURE-SPAN	EACH	1
REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	3
OVERHEAD SIGN SUPPORT GROUT REPAIR	EACH	4
REMOVE OVERHEAD SIGN STRUCTURE - WALKWAY	FOOT	55
CLEARING AND GRUBBING	SQ YD	134
FURNISH AND INSTALL SADDLE SHIM BLOCK	EACH	4
FURNISH AND INSTALL TRUSS DAMPER	EACH	1

LOCATION NO.	6	STATE I.D. NO.		1S016S171L000.0-002	
COUNTY: COOK	ROUTE: IL-171	M.P.: -	DIRECTION: SB		

PAY ITEM DESCRIPTION	UNIT	QTY
SIGN PANEL - TYPE 3	SQ FT	290.5
REMOVE SIGN PANEL - TYPE 3	SQ FT	196
OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	FOOT	77
STRUCTURAL STEEL SUPPORT FOR OVERHEAD SIGN STRUCTURE - SPAN	EACH	2
REMOVE AND REERECT OVERHEAD SIGN STRUCTURE-SPAN	EACH	1
REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	3
OVERHEAD SIGN SUPPORT GROUT REPAIR	EACH	4
REMOVE OVERHEAD SIGN STRUCTURE - WALKWAY	FOOT	47
CLEARING AND GRUBBING	SQ YD	134
FURNISH AND INSTALL SADDLE SHIM BLOCK	EACH	4
FURNISH AND INSTALL TRUSS DAMPER	EACH	1

~~LOCATION NO.~~	~~7~~	STATE I.D. NO.		~~1S016S171L000.0-000~~	
~~COUNTY: COOK~~	~~ROUTE: IL-171~~	~~M.P.: -~~	~~DIRECTION: SB~~		

~~PAY ITEM DESCRIPTION~~	~~UNIT~~	~~QTY~~
~~SIGN PANEL - TYPE 3~~	~~SQ FT~~	~~570~~
~~REMOVE SIGN PANEL - TYPE 3~~	~~SQ FT~~	~~412~~
~~OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A~~	~~FOOT~~	~~77~~
~~STRUCTURAL STEEL SUPPORT FOR OVERHEAD SIGN STRUCTURE - SPAN~~	~~EACH~~	~~2~~
~~REMOVE AND REERECT OVERHEAD SIGN STRUCTURE-SPAN~~	~~EACH~~	~~1~~
~~REMOVAL OF LIGHTING UNIT, NO SALVAGE~~	~~EACH~~	~~8~~
~~OVERHEAD SIGN SUPPORT GROUT REPAIR~~	~~EACH~~	~~4~~
~~REMOVE OVERHEAD SIGN STRUCTURE - WALKWAY~~	~~FOOT~~	~~57~~
~~FURNISH AND INSTALL SADDLE SHIM BLOCK~~	~~EACH~~	~~4~~
~~FURNISH AND INSTALL TRUSS DAMPER~~	~~EACH~~	~~1~~

LOCATION NO.	8	STATE I.D. NO.		1S016S171R000.0-003	
COUNTY: COOK	ROUTE: IL-171	M.P.: -	DIRECTION: SB		

PAY ITEM DESCRIPTION	UNIT	QTY
SIGN PANEL - TYPE 3	SQ FT	278
REMOVE SIGN PANEL - TYPE 3	SQ FT	209.5
OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	FOOT	58
STRUCTURAL STEEL SUPPORT FOR OVERHEAD SIGN STRUCTURE - SPAN	EACH	2
REMOVE AND REERECT OVERHEAD SIGN STRUCTURE-SPAN	EACH	1
REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	5
OVERHEAD SIGN SUPPORT GROUT REPAIR	EACH	4
REMOVE OVERHEAD SIGN STRUCTURE - WALKWAY	FOOT	40
CLEARING AND GRUBBING	SQ YD	134
FURNISH AND INSTALL SADDLE SHIM BLOCK	EACH	4
FURNISH AND INSTALL TRUSS DAMPER	EACH	1

LOCATION NO.	9	STATE I.D. NO.		1C099I080R148.9-000	
COUNTY: WILL	ROUTE: I-80	M.P.: 148.9	DIRECTION: EB		

PAY ITEM DESCRIPTION	UNIT	QTY
SIGN PANEL - TYPE 3	SQ FT	87.5
OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE II-C-A (36" X 5'-6")	FOOT	30
DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	6.8
REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	1
REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	1
REMOVE ELECTRIC SERVICE	EACH	1
TOPSOIL FURNISH AND PLACE 4"	SQ YD	20
SEEDING CLASS 2A		.004
NITROGEN FERTILIZER NUTRIENT		.4
POTASSIUM FERTILIZER NUTRIENT		.4
EROSION CONTROL BLANKET		20

LOCATION NO.	10	STATE I.D. NO.		1C016I080L148.0-000	
COUNTY: COOK	ROUTE: I-80	M.P.: 148	DIRECTION: -		

PAY ITEM DESCRIPTION	UNIT	QTY
SIGN PANEL - TYPE 3	SQ FT	87.5
OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE II-C-A (36" X 5'-6")	FOOT	27
DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	6.8
REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	1
REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	1
REMOVE ELECTRIC SERVICE	EACH	1
TOPSOIL FURNISH AND PLACE 4"	SQ YD	20
SEEDING CLASS 2A	ACRE	.004
NITROGEN FERTILIZER NUTRIENT	POUND	.4
POTASSIUM FERTILIZER NUTRIENT	POUND	.4
EROSION CONTROL BLANKET	SQ YD	20

LOCATION NO.	11	STATE I.D. NO.		1C016I094R035.5-000	
COUNTY: COOK	ROUTE: I-94	M.P.: 35.5	DIRECTION: -		

PAY ITEM DESCRIPTION	UNIT	QTY
OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE III-C-A (36" X 7'-0")	FOOT	37
DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	12.3
REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	1
REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	1
REMOVE ELECTRIC SERVICE	EACH	1
REMOVE AND REINSTALL SIGN PANEL	SQ FT	143.75
TOPSOIL FURNISH AND PLACE 4"	SQ YD	20
SEEDING CLASS 2A	ACRE	.004
NITROGEN FERTILIZER NUTRIENT	POUND	.4
POTASSIUM FERTILIZER NUTRIENT	POUND	.4
EROSION CONTROL BLANKET	SQ YD	20

~~LOCATION NO.~~	~~16~~	STATE I.D. NO.		~~1C016L000R000.0-000~~	
~~COUNTY: COOK~~	~~ROUTE: PALATINE~~	~~M.P.: -~~	~~DIRECTION: EB~~		

~~PAY ITEM DESCRIPTION~~	~~UNIT~~	~~QTY~~
~~TRAFFIC BARRIER TERMINAL, TYPE 6~~	~~EACH~~	~~2~~
~~GUARDRAIL REMOVAL~~	~~FOOT~~	~~50~~
~~SIGN PANEL - TYPE 3~~	~~SQ FT~~	~~138.75~~
~~OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE I-C-A (24" X 4'-6")~~	~~FOOT~~	~~21~~
~~DRILLED SHAFT CONCRETE FOUNDATIONS~~	~~CU YD~~	~~5.5~~
~~REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER~~	~~EACH~~	~~1~~
~~REMOVE CONCRETE FOUNDATION - OVERHEAD~~	~~EACH~~	~~1~~

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
(SHEET 1 OF 3)

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D1 OVH SIN STR REPL 15-10	VARIOUS	94	9
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			

LOCATION NO.	17	STATE I.D. NO.	1C016L000R000.0-001				
COUNTY	COOK	ROUTE	PALATINE	M.P.	-	DIRECTION	EB

PAY ITEM DESCRIPTION	UNIT	QTY
TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	2
GUARDRAIL REMOVAL	FOOT	50
SIGN PANEL - TYPE 3	SQ FT	40.25
OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE I-C-A (24" X 4'-6")	FOOT	20
DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	5
REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	1
REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	1

LOCATION NO.	18	STATE I.D. NO.	1C016L000R000.0-002				
COUNTY	COOK	ROUTE	PALATINE	M.P.	-	DIRECTION	EB

PAY ITEM DESCRIPTION	UNIT	QTY
TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	2
GUARDRAIL REMOVAL	FOOT	50
SIGN PANEL - TYPE 3	SQ FT	65
OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE I-C-A (24" X 4'-6")	FOOT	20
DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	5
REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	1
REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	1

LOCATION NO.	19	STATE I.D. NO.	1C016L000R000.0-003				
COUNTY	COOK	ROUTE	PALATINE	M.P.	-	DIRECTION	EB

PAY ITEM DESCRIPTION	UNIT	QTY
SIGN PANEL - TYPE 3	SQ FT	112
OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE I-C-A (24" X 4'-6")	FOOT	22
DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	5
REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	1
REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	1
RELOCATE IMPACT ATTENUATOR	EACH	1

LOCATION NO.	20	STATE I.D. NO.	1C016L000R000.0-005				
COUNTY	COOK	ROUTE	PALATINE	M.P.	-	DIRECTION	EB

PAY ITEM DESCRIPTION	UNIT	QTY
GUARDRAIL REMOVAL	FOOT	40
SIGN PANEL - TYPE 3	SQ FT	75
OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE I-C-A (24" X 4'-6")	FOOT	20
DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	4.7
REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	1
REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	1
IMPACT ATTENUATOR (FULLY REDIRECTIVE, NARROW) TEST LEVEL 2	EACH	1

LOCATION NO.	21	STATE I.D. NO.	1C016L000L000.0-001				
COUNTY	COOK	ROUTE	PALATINE	M.P.	-	DIRECTION	WB

PAY ITEM DESCRIPTION	UNIT	QTY
SIGN PANEL - TYPE 3	SQ FT	77.5
OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE I-C-A (24" X 4'-6")	FOOT	20
DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	5
REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	1
REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	1
RELOCATE IMPACT ATTENUATOR	EACH	1

LOCATION NO.	22	STATE I.D. NO.	1C016L000L000.0-002				
COUNTY	COOK	ROUTE	PALATINE	M.P.	-	DIRECTION	WB

PAY ITEM DESCRIPTION	UNIT	QTY
TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	2
GUARDRAIL REMOVAL	FOOT	50
SIGN PANEL - TYPE 3	SQ FT	112
OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE I-C-A (24" X 4'-6")	FOOT	20
DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	6.4
REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	1
REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	1

LOCATION NO.	23	STATE I.D. NO.	1C016L000L000.0-003				
COUNTY	COOK	ROUTE	PALATINE	M.P.	-	DIRECTION	WB

PAY ITEM DESCRIPTION	UNIT	QTY
TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	2
GUARDRAIL REMOVAL	FOOT	50
SIGN PANEL - TYPE 3	SQ FT	65
OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE I-C-A (24" X 4'-6")	FOOT	15
DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	5
REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	1
REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	1

LOCATION NO.	24	STATE I.D. NO.	1C016L000L000.0-005				
COUNTY	COOK	ROUTE	WILLOW	M.P.	-	DIRECTION	WB

PAY ITEM DESCRIPTION	UNIT	QTY
TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	1
GUARDRAIL REMOVAL	FOOT	100
SIGN PANEL - TYPE 3	SQ FT	138.75
OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE I-C-A (24" X 4'-6")	FOOT	24
DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	5.0
REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	1
REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	1
STEEL PLATE BEAM GUARDRAIL	FOOT	154
AGGREGATE SHOULDERS, TYPE B 10"	SQ YD	21
TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1
GUARDAIL MARKERS, TYPE A	EACH	4
TERMINAL MARKER - DIRECT APPLY	EACH	1

LOCATION NO.	25	STATE I.D. NO.	1C016L000L000.0-000				
COUNTY	COOK	ROUTE	PALATINE	M.P.	-	DIRECTION	WB

PAY ITEM DESCRIPTION	UNIT	QTY
TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	2
GUARDRAIL REMOVAL	FOOT	50
SIGN PANEL - TYPE 3	SQ FT	60
OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE I-C-A (24" X 4'-6")	FOOT	17
DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	5
REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	1
REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	1

LOCATION NO.	26	STATE I.D. NO.	1C016L000L000.0-004				
COUNTY	COOK	ROUTE	PALATINE	M.P.	-	DIRECTION	WB

PAY ITEM DESCRIPTION	UNIT	QTY
TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	2
GUARDRAIL REMOVAL	FOOT	50
SIGN PANEL - TYPE 3	SQ FT	40.25
OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE I-C-A (24" X 4'-6")	FOOT	20
DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	5
REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	1
REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	1

LOCATION NO.	27	STATE I.D. NO.	1C016L000R000.0-004				
COUNTY	COOK	ROUTE	PALATINE	M.P.	-	DIRECTION	EB

PAY ITEM DESCRIPTION	UNIT	QTY
SIGN PANEL - TYPE 3	SQ FT	77.5
RELOCATE SIGN PANEL - TYPE 2	SQ FT	12
OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE I-C-A (24" X 4'-6")	FOOT	18
DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	5
REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	1
REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	1
RELOCATE IMPACT ATTENUATOR	EACH	1

LOCATION NO.	28	STATE I.D. NO.	1S016S171R000.0-002				
COUNTY	COOK	ROUTE	IL-171	M.P.	-	DIRECTION	SB

PAY ITEM DESCRIPTION	UNIT	QTY
SIGN PANEL - TYPE 3	SQ FT	276.5
REMOVE SIGN PANEL - TYPE 3	SQ FT	228.25
OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	FOOT	70
STRUCTURAL STEEL SUPPORT FOR OVERHEAD SIGN STRUCTURE - SPAN	EACH	2
REMOVE AND REERECT OVERHEAD SIGN STRUCTURE-SPAN	EACH	1
REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	6
OVERHEAD SIGN SUPPORT GROUT REPAIR	EACH	4
REMOVE OVERHEAD SIGN STRUCTURE - WALKWAY	FOOT	46
FURNISH AND INSTALL SADDLE SHIM BLOCK	EACH	4
FURNISH AND INSTALL TRUSS DAMPER	EACH	1

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
(SHEET 2 OF 3)

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

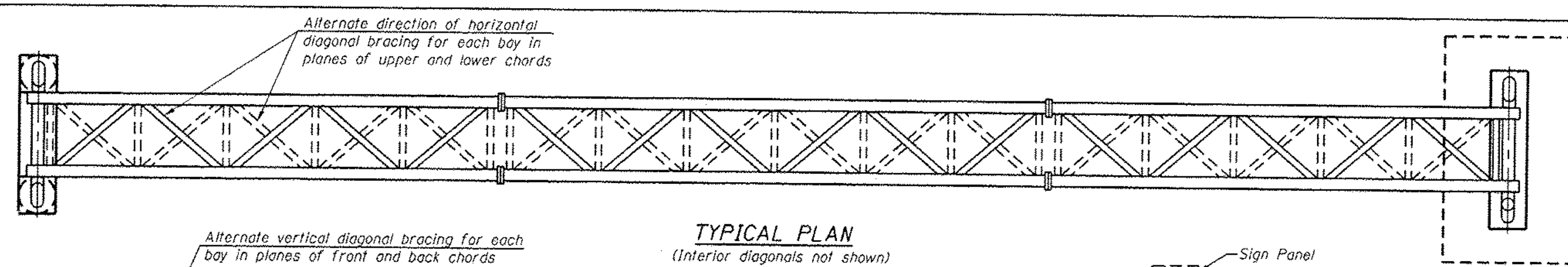
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DI OVH SIN STR REPL 15-10	VARIOUS	94	10
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			

LOCATION NO.	29	STATE I.D. NO.	1SO22I055R276.1-000		
COUNTY DUPAGE	ROUTE	I-55	M.P. 276.1	DIRECTION	NB

PAY ITEM DESCRIPTION	UNIT	QTY
SIGN PANEL - TYPE 3	SQ FT	512.5
REMOVE OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED	EACH	2
REMOVE GROUND MOUNTED SIGN SUPPORT	EACH	1
REMOVE ELECTRIC SERVICE	EACH	1
REMOVE AND REINSTALL SIGN PANEL	SQ FT	141
SEEDING CLASS 2A	ACRE	0.1
NITROGEN FERTILIZER NUTRIENT	POUND	9
POTASSIUM FERTILIZER NUTRIENT	POUND	9
EROSION CONTROL BLANKET	SQ YD	216
TEMPORARY DITCH CHECKS	FOOT	2
PERMITER EROSION BARRIER	FOOT	269
INLET FILTERS	EACH	4
CONCRETE BARRIER REMOVAL	FOOT	78
CONCRETE REMOVAL	CU YD	9
CONCRETE SEALER	SQ FT	858
CONCRETE BARRIER, DOUBLE FACE 32"	FOOT	76.8
TEMPORARY BARRIER WALL	FOOT	600
IMPACT ATTENUATOR, TEMPORARY NON-DIRECTIVE TYPE 3	EACH	2
OVERHEAD SIGN STRUCTURE-SPAN TYPE III-A (5'-0" X 7'0")	FOOT	112
DRILLED SHAFT CONCRETE FDN	CU YD	46
BARRIER WALL MARKER, TYPE C	EACH	48

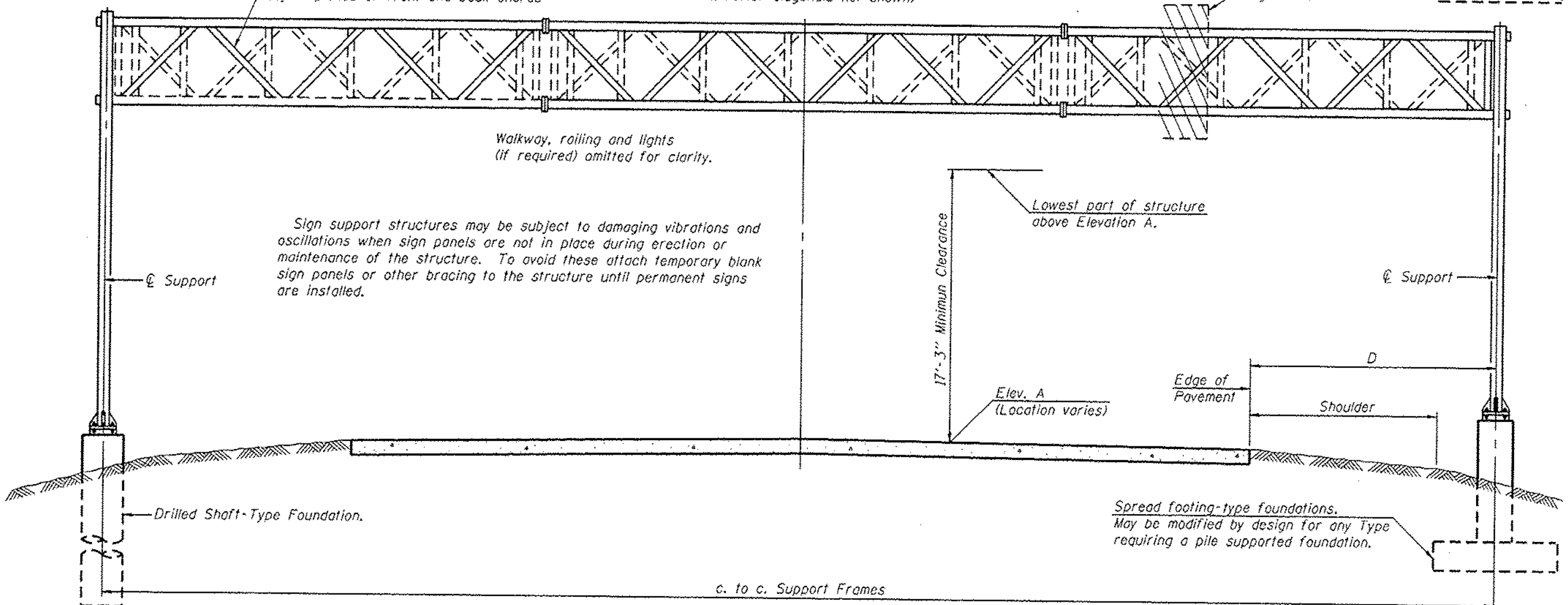
LOCATION NO.	30	STATE I.D. NO.	1SO16S171L000.0-001		
COUNTY COOK	ROUTE	IL-171	M.P. -	DIRECTION	SB

PAY ITEM DESCRIPTION	UNIT	QTY
SIGN PANEL - TYPE 3	SQ FT	570
REMOVE ELECTRIC SERVICE	EACH	1
FURNISH AND INSTALL SADDLE SHIM BLOCK	EACH	4
OVERHEAD SIGN STRUCTURE TYPE II TRUSS ONLY	FOOT	86.5
REMOVE OVERHEAD SIGN STRUCTURE TRUSS ONLY	EACH	1



TYPICAL PLAN

(Interior diagonals not shown)



Sign support structures may be subject to damaging vibrations and oscillations when sign panels are not in place during erection or maintenance of the structure. To avoid these attach temporary blank sign panels or other bracing to the structure until permanent signs are installed.

TYPICAL ELEVATION

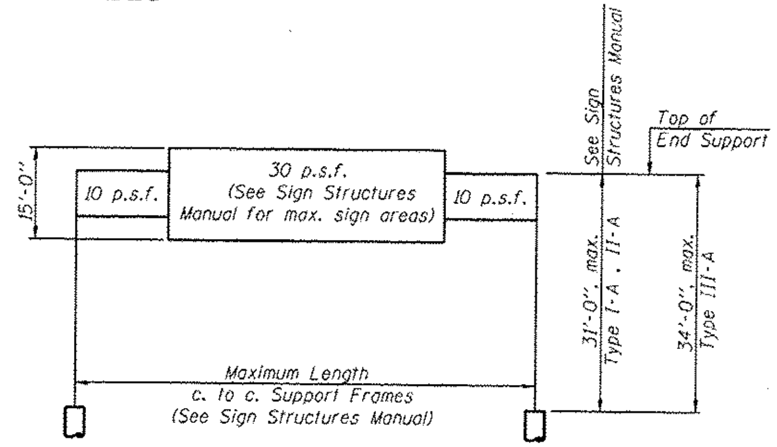
(Looking at Face of Signs**)

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

Structure Number	Location	Design Truss Type	c. to c. Supports	Elev. A	Dim. D	Height of Tallest Sign	Total Sign Area
IS016I090R080.8-000	1	I-A	69'-6"	(3)	15'-0"	9.5'	302.0
IS016U045L000.0-000	4	II-A	70'-6"	(3)	(3)	12.5'	596.0
IS016I171R000.0-004	5	I-A	68'-0"	(3)	17'-0"	9.5'	208.5
IS016S171L000.0-002	6	I-A	77'-0"	(3)	19'-0"	12.5'	290.5
~~IS016S171L000.0-000~~	~~7~~	~~I-A~~	~~77'-0"~~	~~(3)~~	~~16'-0"~~	~~9.5'~~	~~570.0~~
IS016S171R000.0-003	8	I-A	58'-0"	(3)	14'-0"	9.5'	278.0
IS016S171R000.0-002	28	I-A	70'-0"	(3)	16'-0"	9'	276.5
IS016S171L000.0-001	30	II-A	86'-6"	(3)	14'-0"	13.5'	667.5

**Looking upstation for structures with signs both sides.

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



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 analysis for all components.

(3) Survey elevations and distances are not available for this location. The contractor is responsible to obtain survey elevations and span length and then determine the vertical dimensions and elevations for the pipe support frames, and the exact span length.

GENERAL NOTES

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

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

LOADING: 90 M.P.H. WIND VELOCITY

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

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

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

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

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

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

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

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

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

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

FOUNDATIONS: The contract unit price for 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	69.5
OVERHEAD SIGN STRUCTURE SPAN TYPE II-A	Foot	0
OVERHEAD SIGN STRUCTURE SPAN TYPE III-A	Foot	0
OVERHEAD SIGN STRUCTURE WALKWAY TYPE A	Foot	343
CONCRETE FOUNDATIONS	Cu. Yds.	0
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	0

OS-A-1 8-21-13

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	PLOT DATE = 4/28/2015	DATE - 02/06/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

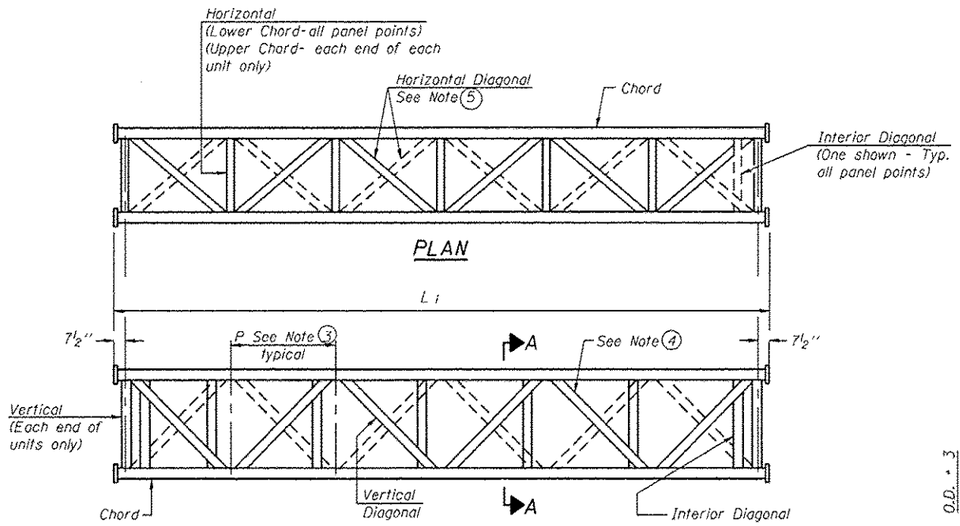
OVERHEAD SIGN STRUCTURES – GENERAL PLAN & ELEVATION – ALUMINUM TRUSS & STEEL SUPPORTS

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

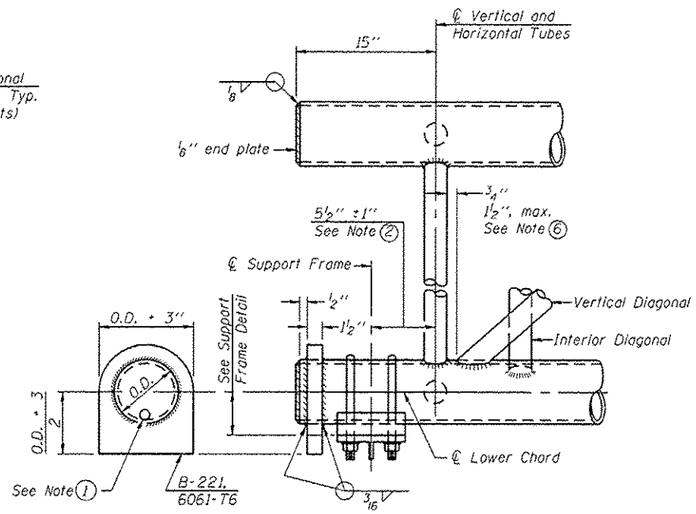
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D1 OVH SIN STR REPL 15-10	VARIOUS	94	12

CONTRACT NO. 46337

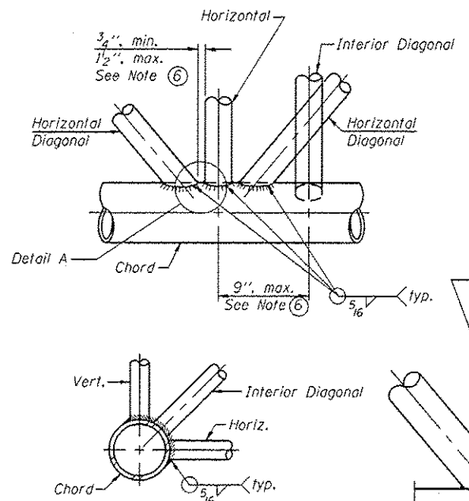
ILLINOIS FED. AID PROJECT



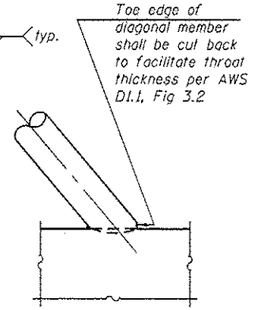
ELEVATION
TYPICAL INTERIOR UNIT
Even number of panels/interior unit required.



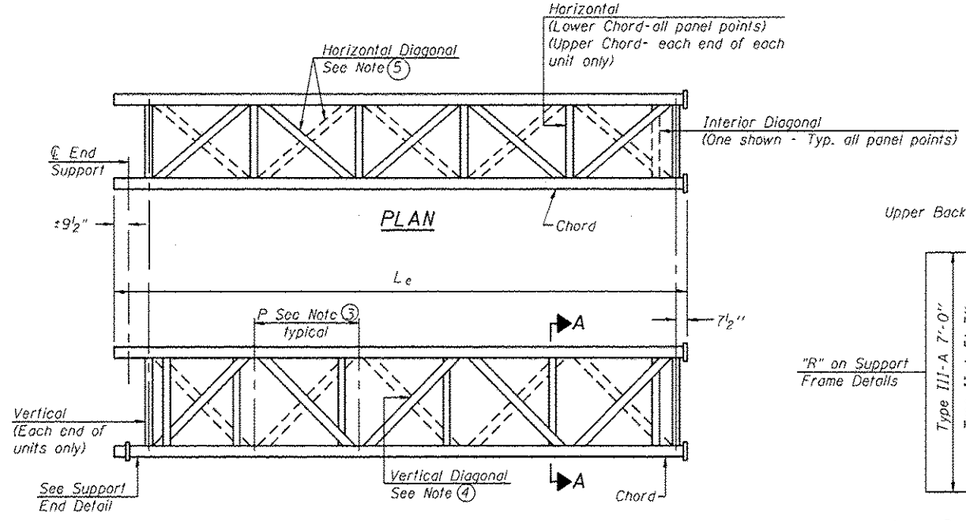
SUPPORT END DETAIL FOR EXTERIOR UNIT



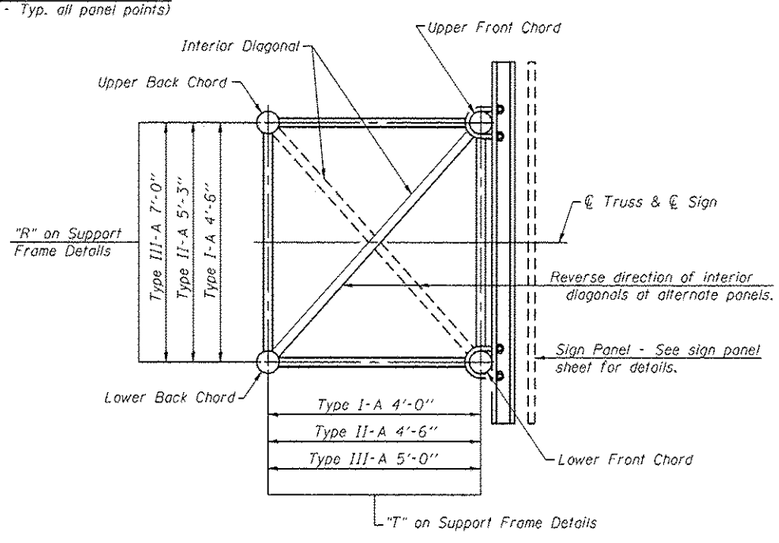
TYPICAL JOINT DETAILS



DETAIL A



ELEVATION
TYPICAL EXTERIOR UNIT
Even or odd number of panels/exterior units allowed.



SECTION A-A

(1) Contractor may alternatively use standard aluminum drive-fit cap to close end. ½" ϕ drain hole in end plate/drive-fit cap. (Typ. at ends of all chords)

(2) 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 ¾" 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.

OS-A-2 6-1-12

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

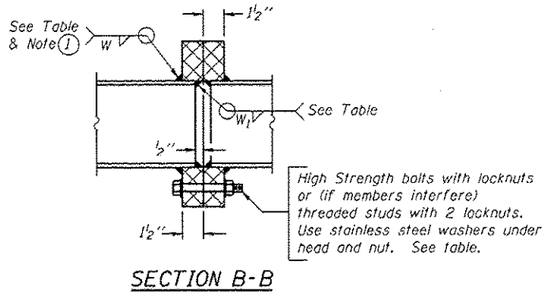
OVERHEAD SIGN STRUCTURES – ALUMINUM TRUSS
DETAILS FOR TRUSS TYPES I-A, II-A AND III-A

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D1 OVH SIN STR REPL 15-10	VARIOUS	94	13
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			

TRUSS UNIT TABLE

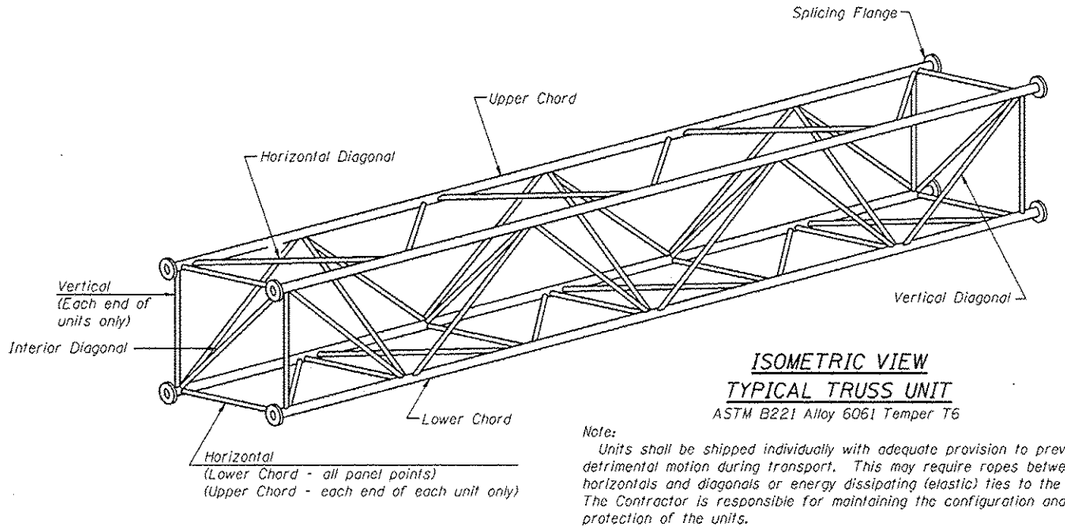
Structure Number (2)	Location	Design Truss Type	Exterior Units (2)			Interior Unit				Upper & Lower Chord		Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals		Camber at Midspan	Splicing Flange						Notes
															Bolts		Weld Sizes		A	B	
			No. Panels per Unit	Unit Lgth.(L_e)	Panel Lgth.(P)	No. Req'd.	No. Panels per Unit	Unit Lgth.(L_1)	Panel Lgth.(P)	O.D.	Wall	O.D.	Wall		No./Splice	Dia.	W	W_1			
IS016I090R080.8-000	1	I-A	7	35'-8½"	4'-10"	-	-	-	-	5	5/16	2½	5/16	1¾	6	⅞	5/16	¼	8¾	11¾	
IS016U045L000.0-000	4	II-A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Reuse existing span
IS016I171R000.0-004	5	I-A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Reuse existing span
IS016S171L000.0-002	6	I-A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Reuse existing span
~~IS016S171L000.0-000~~	~~7~~	~~I-A~~																			~~Reuse existing span~~
IS016S171R000.0-003	8	I-A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Reuse existing span
IS016S171R000.0-002	28	I-A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Reuse existing span
IS016S171L000.0-001	30	II-A	5	28'-0¼"	5'-2¾"	1	6	32'-7½"	5'-2¾"	5½	5/16	3	5/16	2⅜	6	⅞	⅜	¼	9¼	12¼	



SECTION B-B

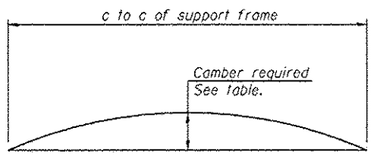
(1) Splicing Flanges shall be attached to each truss unit with the truss shop assembled to camber shown. Truss units shall be in proper alignment and flange surfaces shall be shop bolted into full contact before welding. Sufficient external welds or tacks shall be made to secure flanges until remaining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

(2) Survey elevations and distances are not available for this location. The contractor is responsible to obtain survey elevations and span length and then determine the vertical dimensions and elevations for the pipe support frames, and the exact span length.



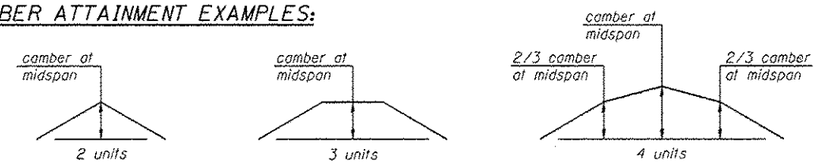
ISOMETRIC VIEW
TYPICAL TRUSS UNIT
ASTM B221 Alloy 6061 Temper T6

Note:
Units 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 units.

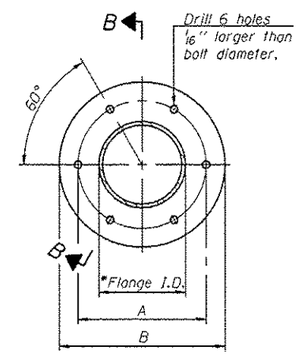


CAMBER DIAGRAM
Camber curve shown is theoretical. Actual camber attained by slope changes at splices between units.

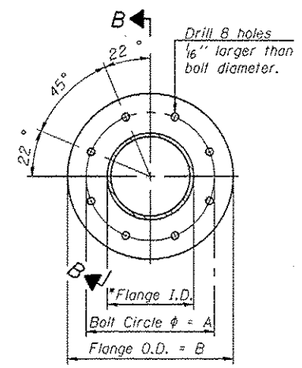
CAMBER ATTAINMENT EXAMPLES:



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



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 1/16".

OS4-A-2 6-1-12

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		DATE - 02/06/2015	REVISED -		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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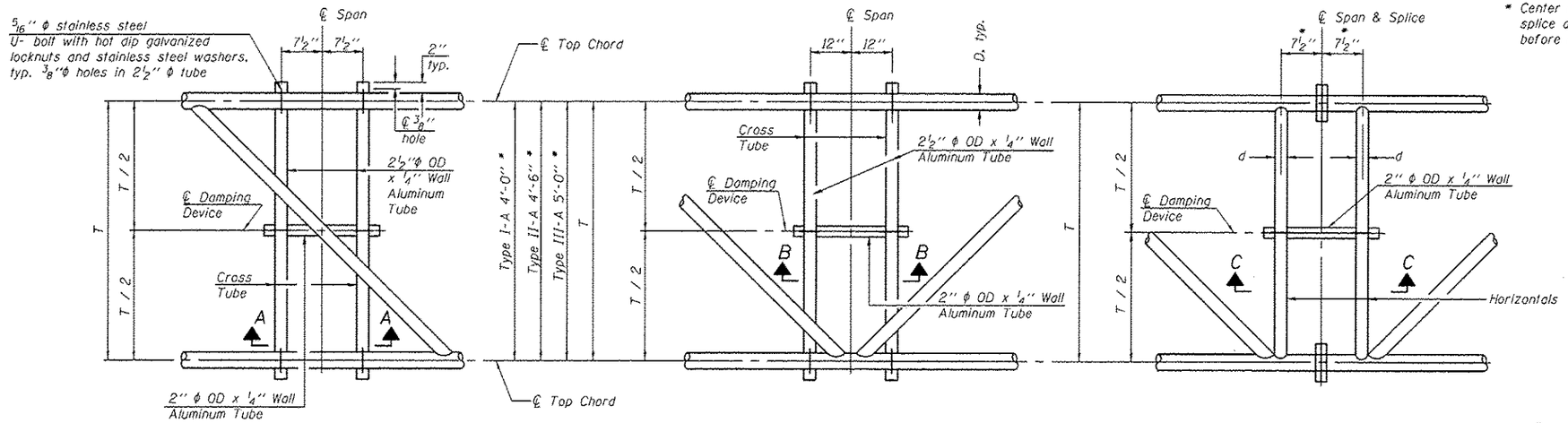
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			

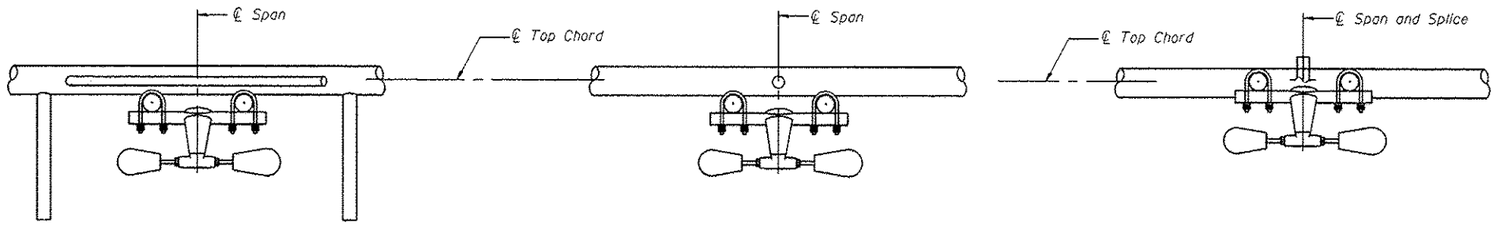


* Center of horizontal to center of splice dimension may vary. Verify before drilling holes in mounting tube.

PLAN DETAIL "A"
℄ Span between Panel Points

PLAN DETAIL "B"
℄ Span at Panel Point

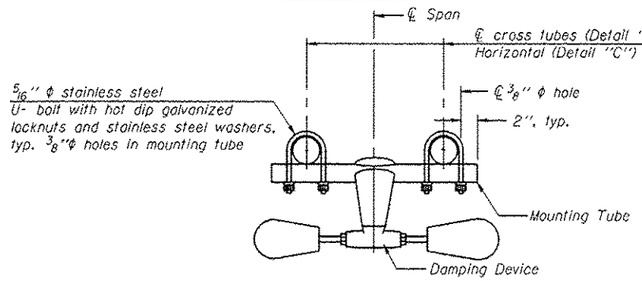
PLAN DETAIL "C"
℄ Span at ℄ Chord Splice



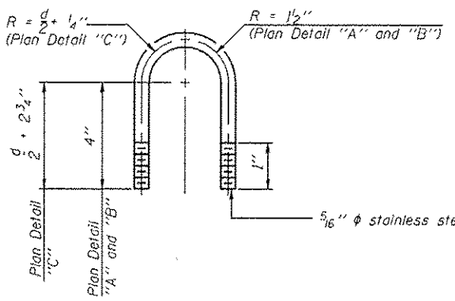
SECTION A-A

SECTION B-B

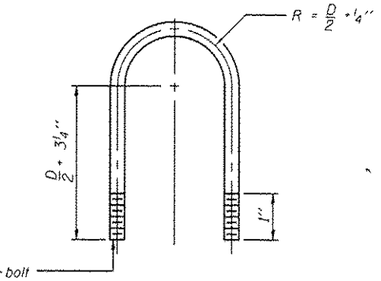
SECTION C-C



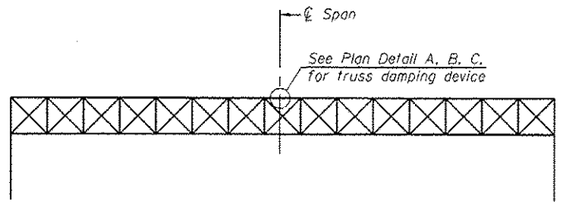
TRUSS DAMPING DEVICE CONNECTION DETAIL
(Typical)



DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL
(Typical)



TOP CHORD TO CROSS TUBE U-BOLT DETAIL
(Typical - Detail "A" and "B")



ELEVATION
Aluminum Overhead Sign Truss

NOTES

Damper: One damper per truss. (31 lbs. minimum Stockbridge-Type Aluminum - 29" minimum between ends of weights) Cost included in Overhead Sign Structure...

Materials: Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6. Cost included in Overhead Sign Structure...

OS-A-D 6-1-12

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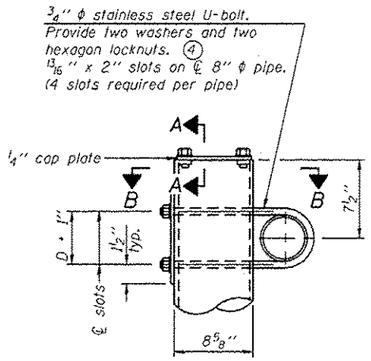
Default	PLOT DATE = 4/20/2015	DATE - 02/06/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

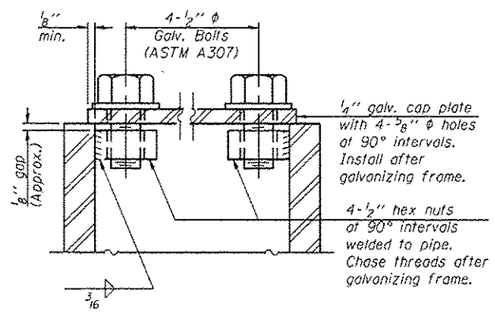
OVERHEAD SIGN STRUCTURE
DAMPING DEVICE

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D1 OVH SIN STR REPL 15-10	VARIOUS	94	15
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			

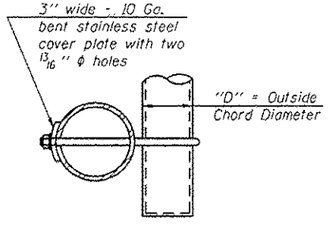


DETAIL A

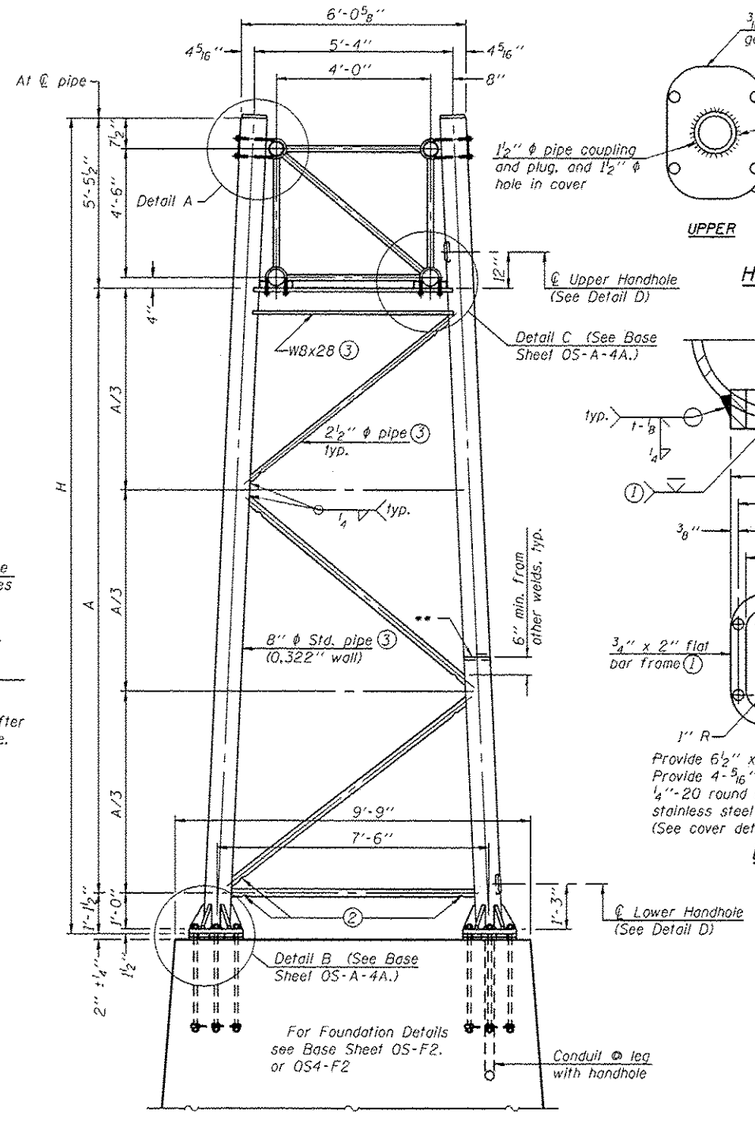


SECTION A-A

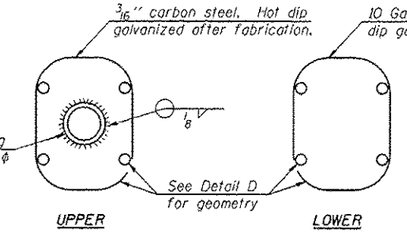
As an alternate to bolts, may use galvanized drive-fit caps installed after galvanizing frame.



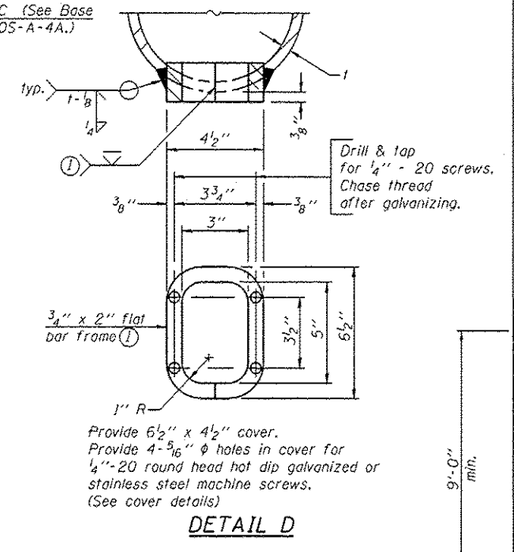
SECTION B-B



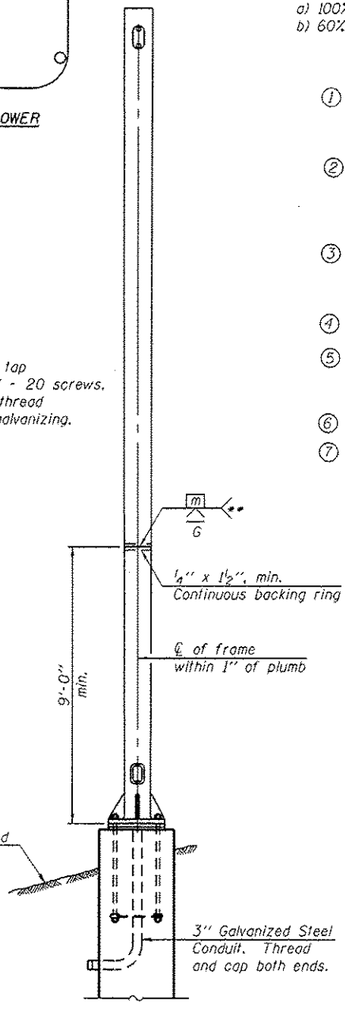
SIDE ELEVATION



HANDHOLE COVERS



DETAIL D



END ELEVATION

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

(1) In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500 μin or less.

(2) Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred, typ.

(3) Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet OS-A-1.

(4) See General Notes for fasteners.

(5) Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.

(6) "H" based on 15'-0" or actual sign height, whichever is greater.

(7) Survey elevations and distances are not available for this location. The contractor is responsible to obtain survey elevations and span length and then determine the vertical dimensions and elevations for the pipe support frames, and the exact span length.

8" ϕ PIPE TRUSS SUPPORT FRAME

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

Structure Number (7)	Location	Support Left	Support Right	H (6)	A
IS016I090R080.8-000	1	X		23'-6 1/2"	17'-0 1/8"
			X	19'-0 1/2"	12'-6 1/8"
IS016I17IR000.0-004	5	X	X	25'-1 1/2"	18'-6 1/2"
IS016S17IL000.0-002	6	X	X	25'-5 1/2"	18'-10 1/2"
~~IS016S17IL000.0-000~~	~~7~~	~~X~~	~~X~~	~~24'-4 1/2"~~	~~17'-5 1/2"~~
IS016S17IR000.0-003	8	X	X	23'-10 1/2"	17'-3 1/2"
IS016S17IR000.0-002	28	X	X	25'-2 1/2"	18'-7 1/2"

OS-A-4 6-1-12

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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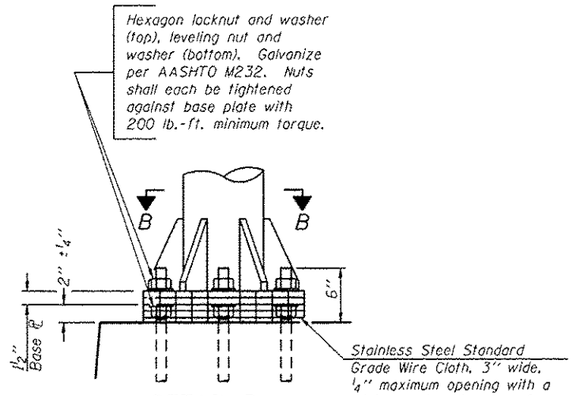
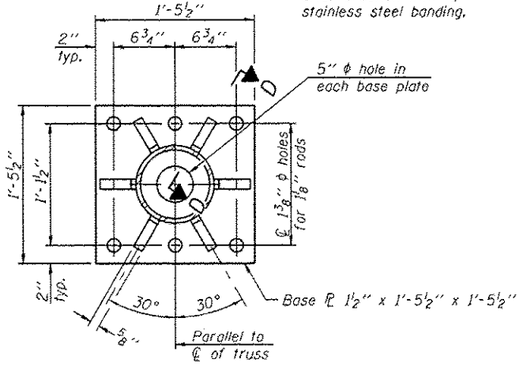
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			

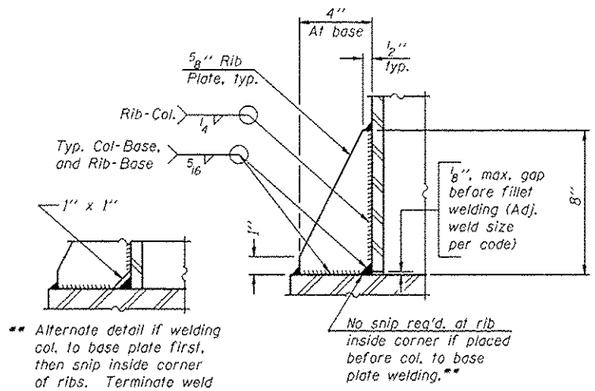


DETAIL B

Ribs shall be cut to fit slope of pipe.

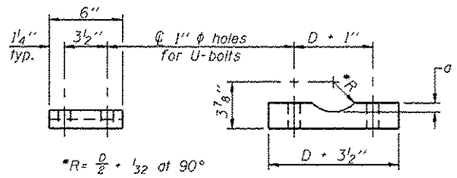


SECTION B-B



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

SECTION D-D



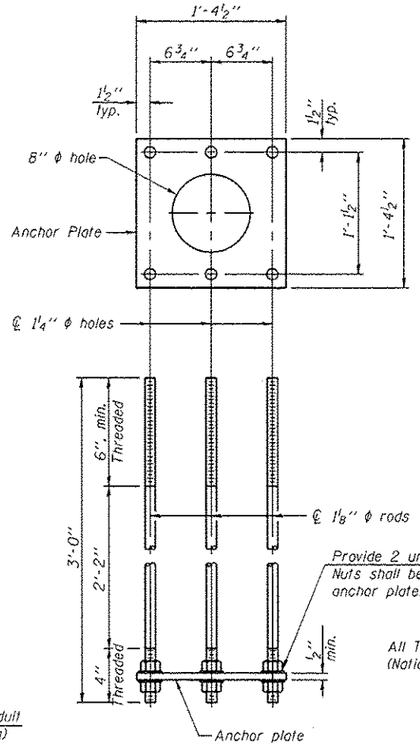
*R = D/2 + 1/32 at 90°

D = Outside Diameter of Chord.

SADDLE SHIM DETAIL

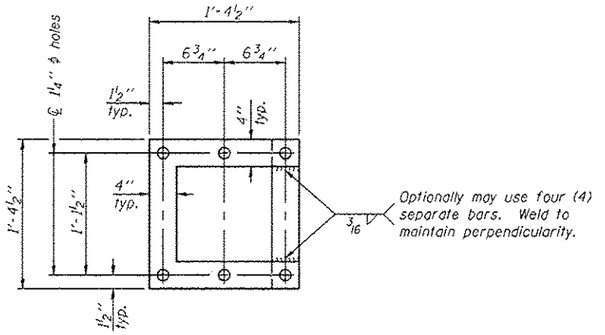
ASTM B26 Alloy 356-F
or
ASTM B209 Alloy 6061-T651
(4 required per sign truss)

Truss Chord Nominal Dia.	a
5"	3/4"
5 1/2"	13/16"
6"	7/8"
6 1/2"	15/16"

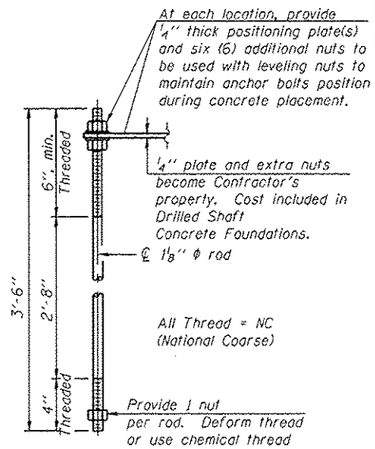


ANCHOR ROD DETAIL

Spread Footing Foundation



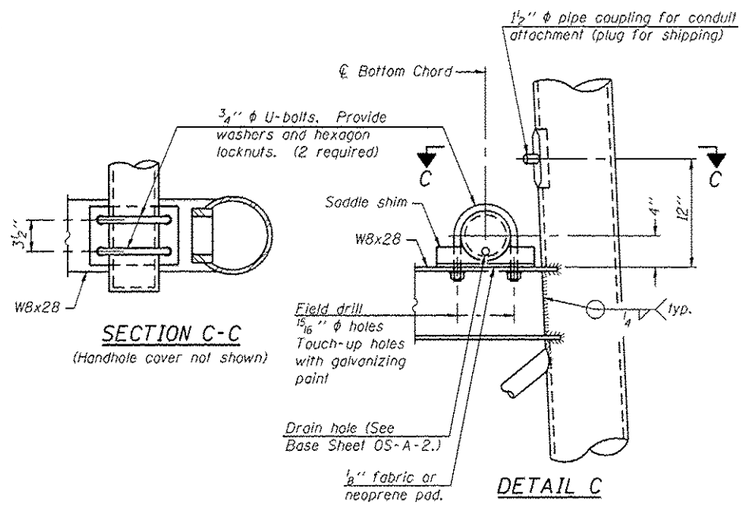
POSITIONING PLATE(S)



ANCHOR ROD DETAIL

Drilled Shaft Foundation

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



SECTION C-C

(Handhole cover not shown)

DETAIL C

TYPE I-A TRUSS
8" ϕ PIPE SUPPORT FRAME DETAILS

OS-A-4A 6-1-12

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
SUPPORT FRAME DETAILS – ALUMINUM TRUSS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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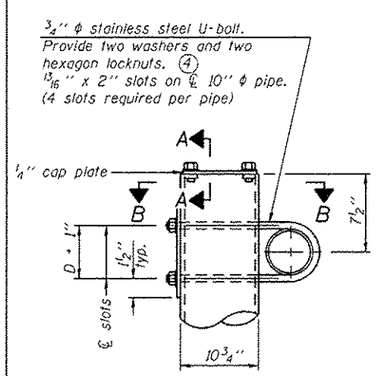
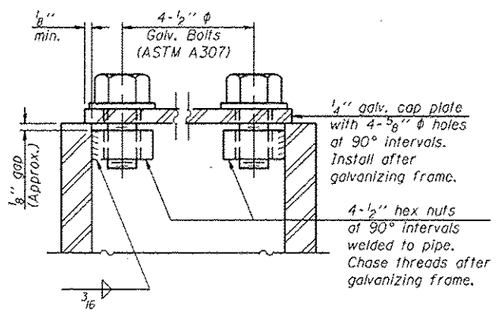
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			

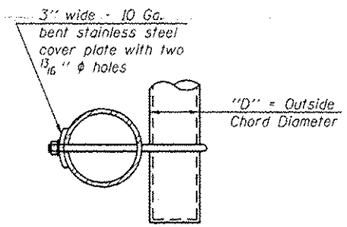


DETAIL A

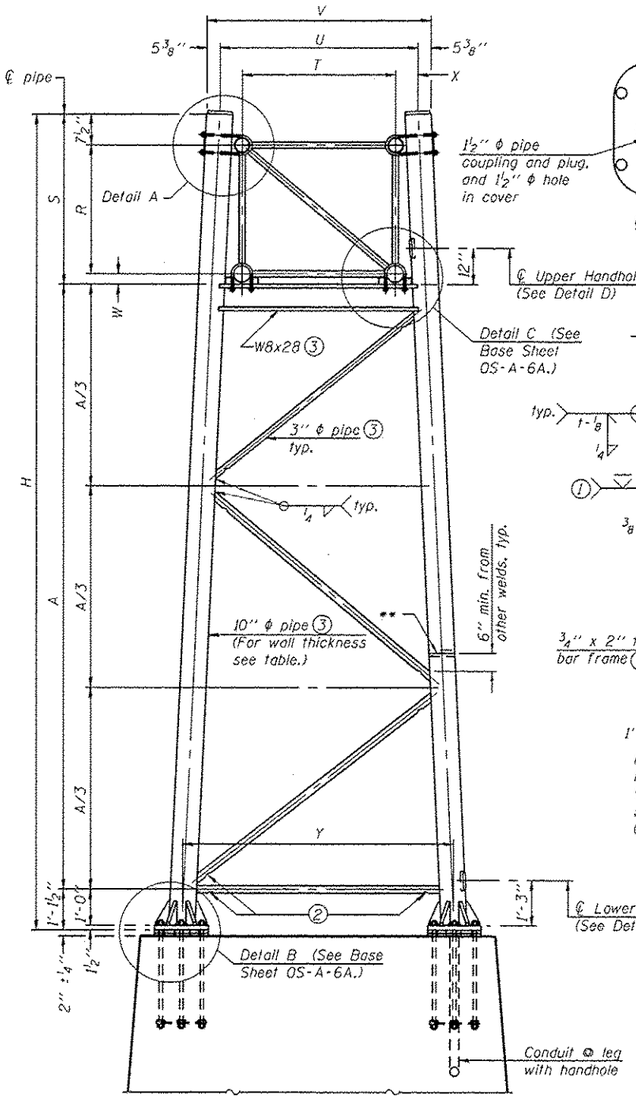


SECTION A-A

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

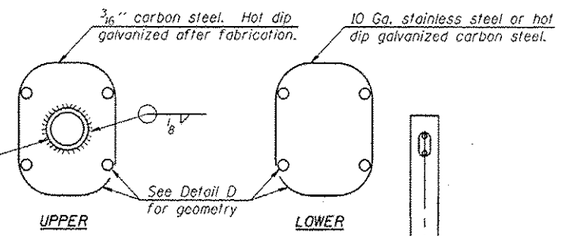


SECTION B-B

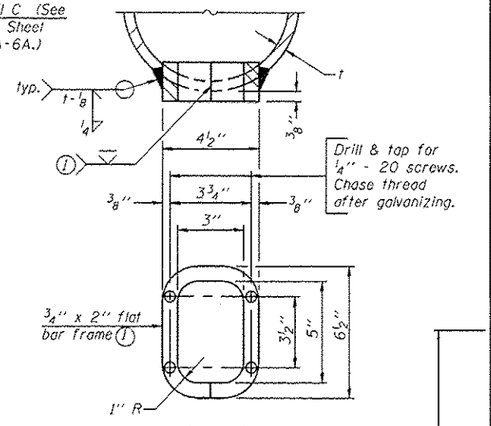


For Foundation Details, see base sheet OS-F3 (Spread Footing) or OS4-F3 (Drilled Shaft).

SIDE ELEVATION

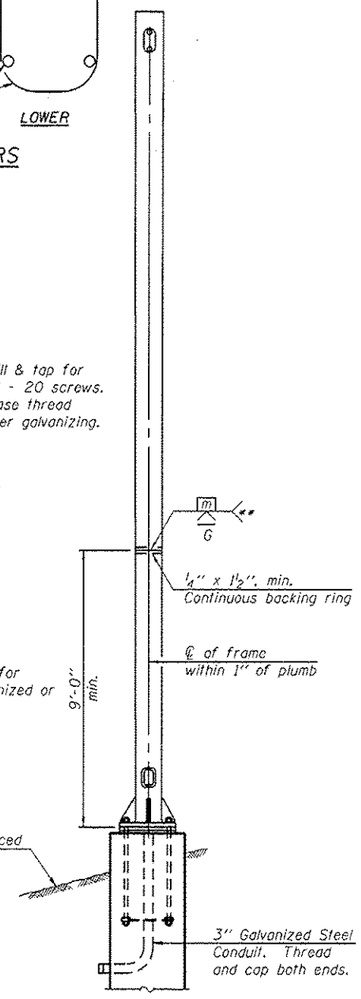


HANDHOLE COVERS



Provide 6½" x 4½" cover.
Provide 4-5/16" ϕ holes in cover for 1/4"-20 round head hot dip galvanized or stainless steel machine screws.
(See cover details)

DETAIL D



END ELEVATION

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

(1) In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500 μin or less.

(2) Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred, typ.

(3) Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet OS-A-1.

(4) See General Notes for fasteners.

(5) Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.

(6) "H" based on 15'-0" or actual sign height, whichever is greater.

(7) Survey elevations and distances are not available for this location. The contractor is responsible to obtain survey elevations and span length and then determine the vertical dimensions and elevations for the pipe support frames, and the exact span length.

Truss Type	Dimensions							
	R	S	T	U	V	W	X	Y
I-A	4'-6"	5'-5½"	4'-0"	5'-6"	6'-4 3/4"	4"	9"	8'-3"
II-A (5)	5'-3"	6'-3 1/4"	4'-6"	6'-1"	6'-11 3/4"	4 3/4"	9½"	8'-3"

10" ϕ PIPE TRUSS SUPPORT FRAME

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

Structure Number	Station	Support		Truss Type	Pipe Wall Thickness	H (6)	A
		Left	Right				
IS016U045L000.0-000	4	X		II-A	0.365	(7)	(7)
			X	II-A	0.365	(7)	(7)

OS-A-6 6-1-12

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
SUPPORT FRAME FOR ALUMINUM TRUSS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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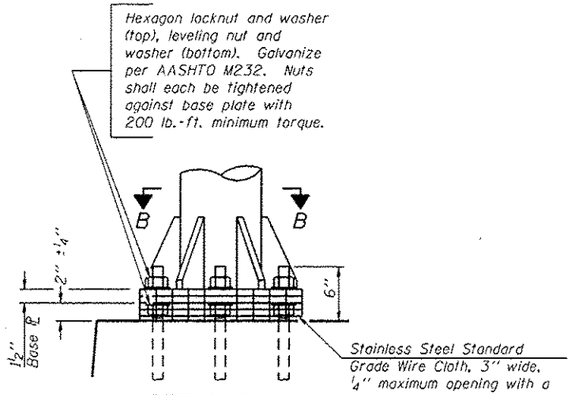
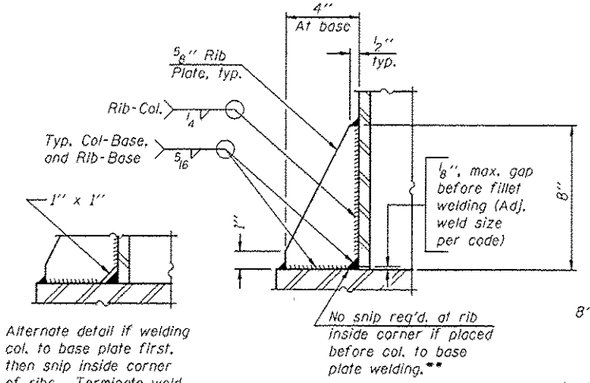
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			



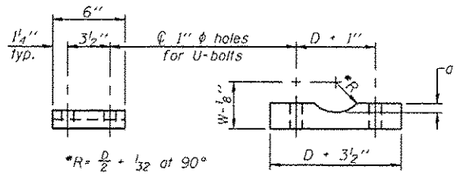
DETAIL B

Ribs shall be cut to fit slope of pipe.



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

SECTION D-D



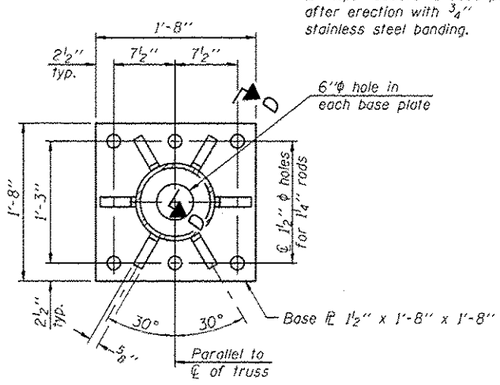
*R = D/2 + 1/32 at 90°

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

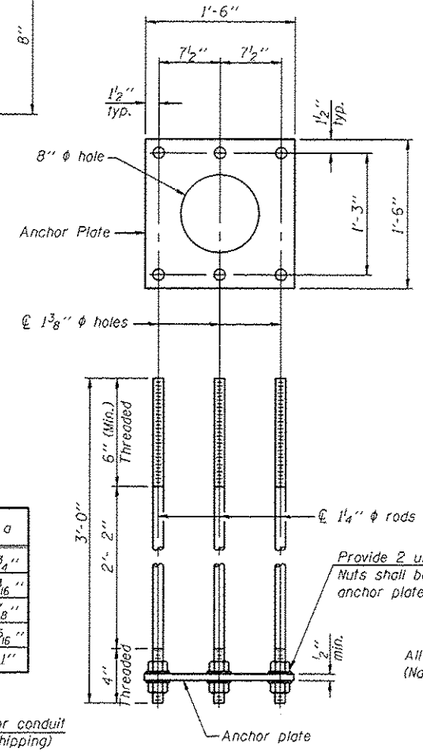
SADDLE SHIM DETAIL

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

Truss Chord Nominal Dia.	a
5"	3/4"
5 1/2"	13/16"
6"	7/8"
6 1/2"	15/16"
7"	1"

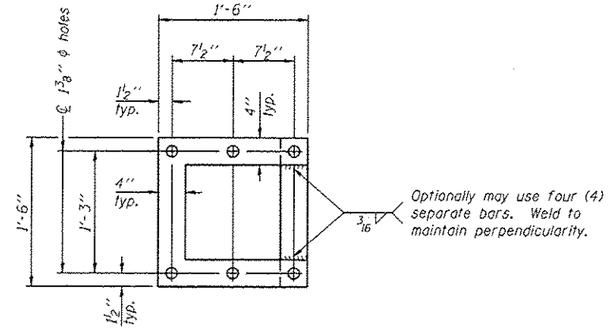


SECTION B-B

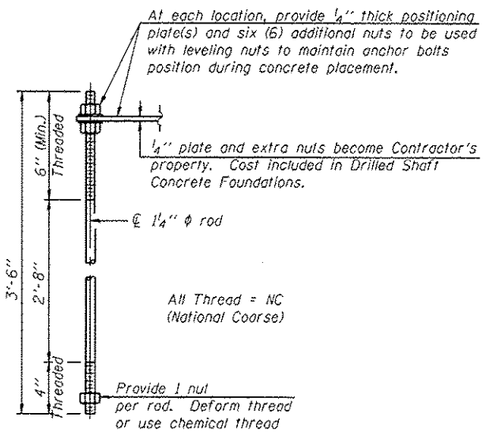


ANCHOR ROD DETAIL

Spread Footing Foundation



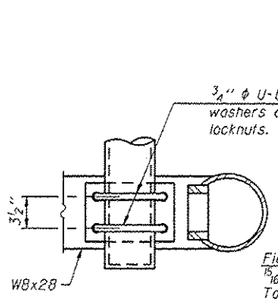
POSITIONING PLATE(S)



ANCHOR ROD DETAIL

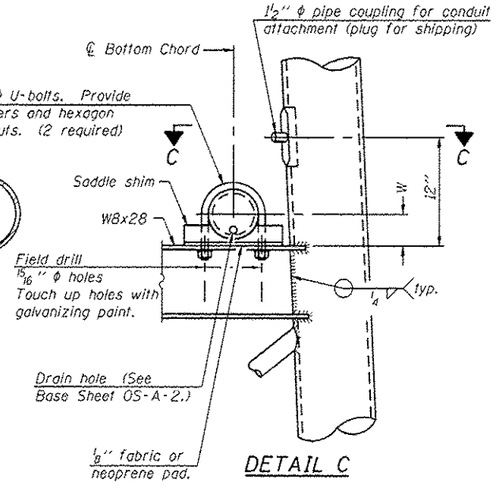
Drilled Shaft Foundation

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



SECTION C-C

(Handhole cover not shown)



DETAIL C

10" ϕ PIPE SUPPORT FRAME DETAILS

OS-A-6A 6-1-12

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
SUPPORT FRAME DETAILS – ALUMINUM TRUSS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 46337		
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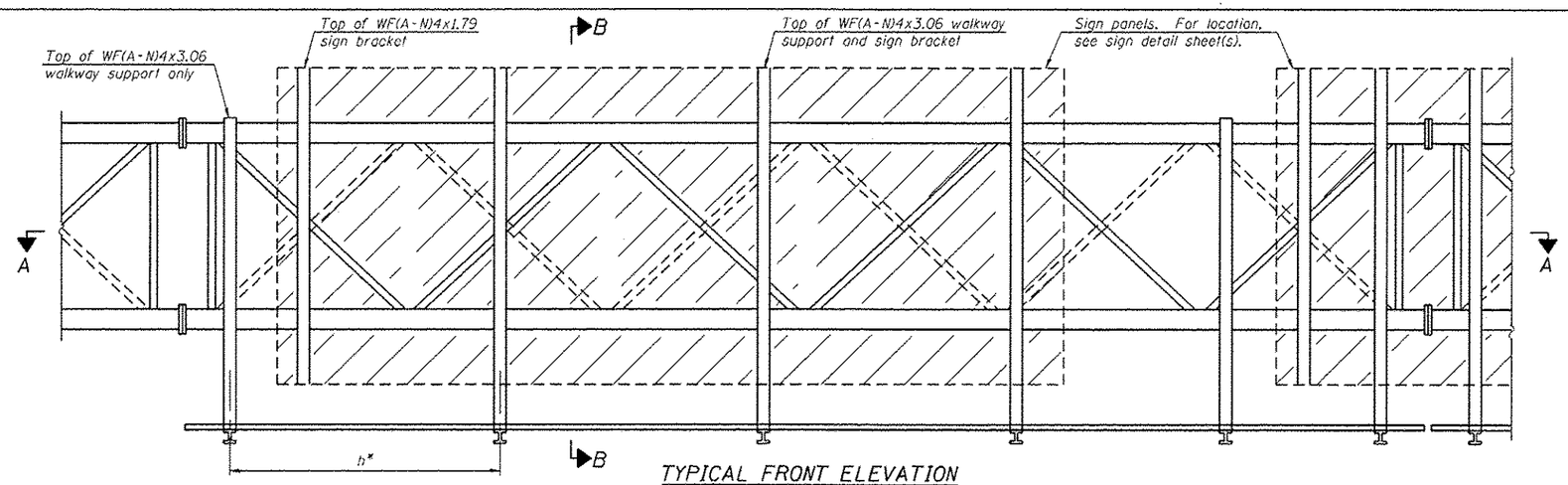
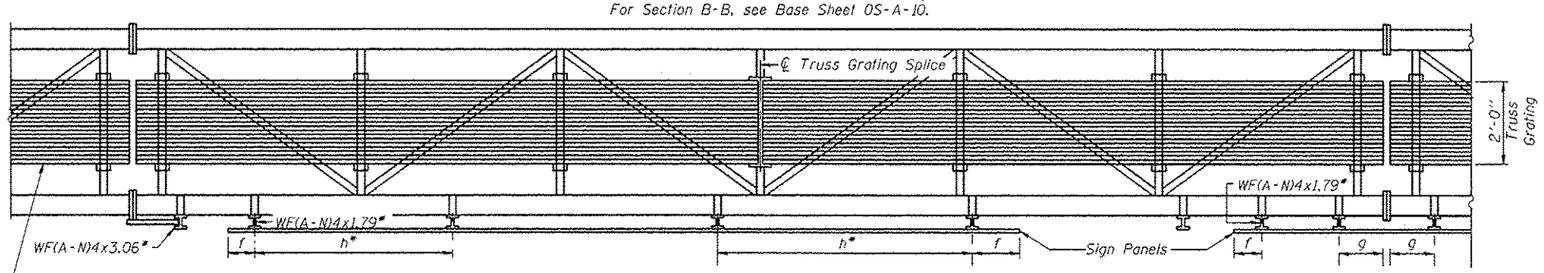


TYPICAL FRONT ELEVATION

With lights and handrail omitted for clarity.
For Section B-B, see Base Sheet OS-A-10.



Standard Aluminum Grating, see Details T and W

SECTION A-A

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

BRACKET TABLE

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

Notes:

* Space sign brackets WF(A-N)4x1.79 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. WF(A-N)4x1.79 or WF(A-N)4x3.06)
k = 2" maximum gap between adjacent walkway grating sections and handrail ends

For Details T and W, Section B-B and Grating Splice Details see Base Sheet OS-A-10.
For Handrail Details see Base Sheet OS-A-11.

Structure Number	Location	a	b	c	d	e	Walkway Grating and Handrail Lengths
1S0161090R080.8-000	1	-	-	-	-	-	0.0
1S016S171L000.0-001	30	-	-	-	-	-	0.0

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

Walkway and Truss Grating width dimensions are nominal and may vary ±½" based on available standard widths.

OS-A-9 6-1-12

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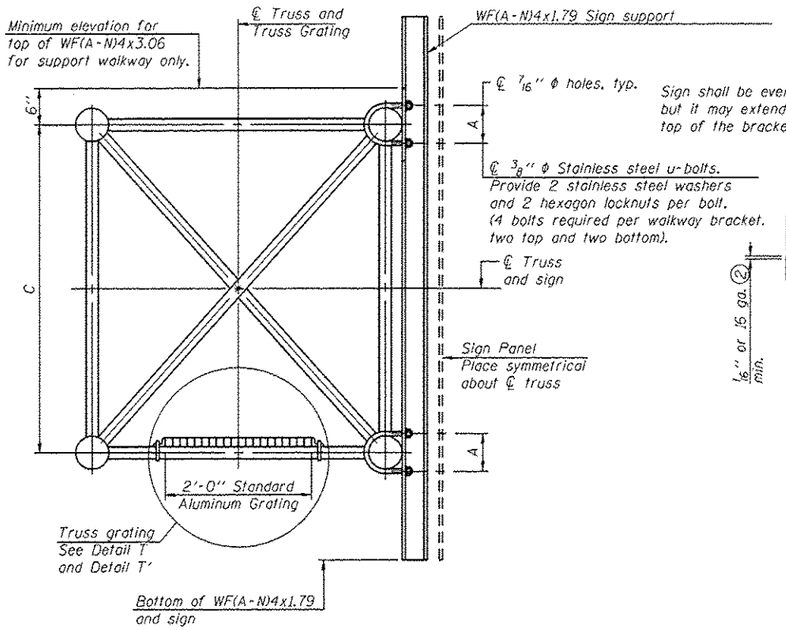
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

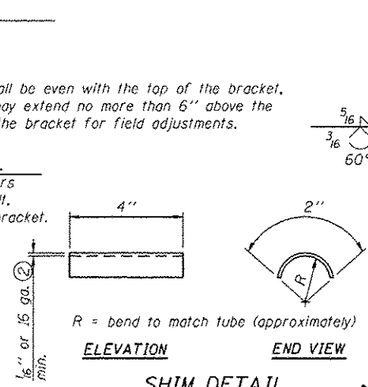
OVERHEAD SIGN STRUCTURES
ALUMINUM WALKWAY DETAILS

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

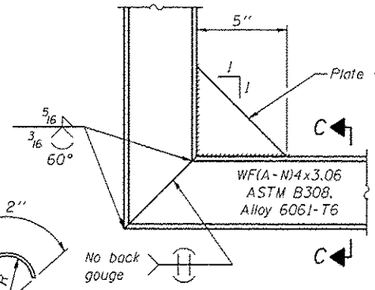
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D1 OVH SIN STR REPL 15-10	VARIOUS	94	20
		CONTRACT NO. 46337		
		ILLINOIS FED. AID PROJECT		



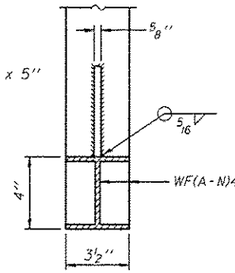
Sign shall be even with the top of the bracket, but it may extend no more than 6" above the top of the bracket for field adjustments.



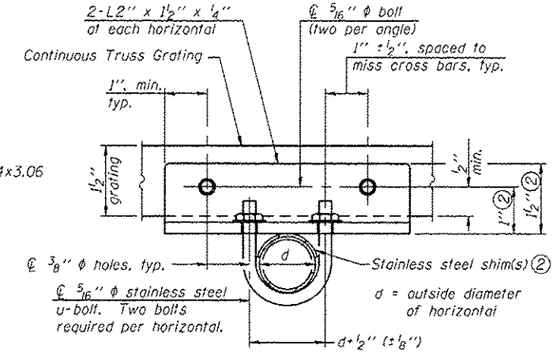
SHIM DETAIL



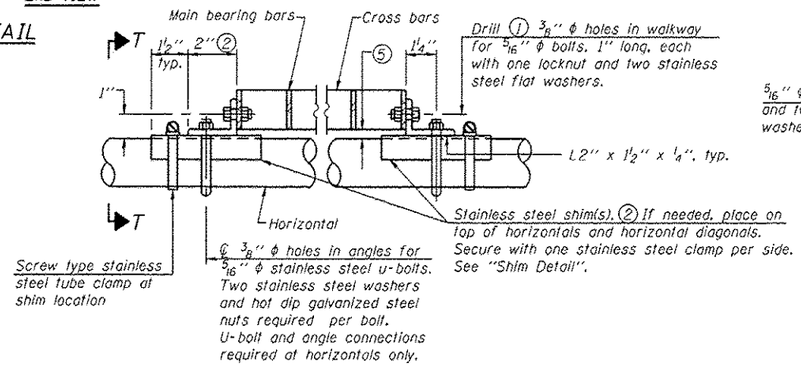
DETAIL C



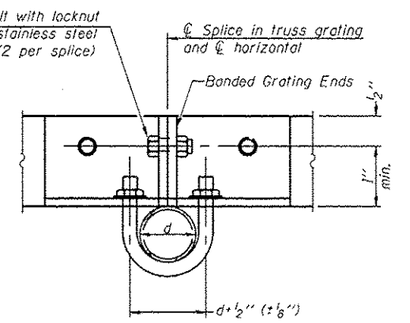
SECTION C-C



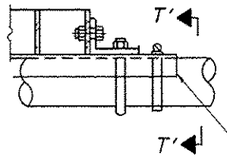
SECTION T-T



DETAIL T
(Continuous Truss grating)



SECTION T'-T'



SECTION B-B

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

SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

Main Bearing Bars shall be 3/16" x 1½" on 1 3/16" centers and conform to ASTM B221 Alloy 6061-T6.
Cross bars shall be 3/16" x 1½" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

OR

Aluminum Grating with modified "I" sections for main bearing bars shall meet the following requirements:
Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 $in.^3$ per bar, a depth of 1½", spaced on 1 3/16" centers.
Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

Structure Number	Location	A	(6) B	C	(6) D
IS0161090R080.8-000	1	6"	-	4'-6"	-
IS016S171L000.0-001	30	6½"	-	5'-3"	-

(1) Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.

(2) Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.

(5) Tube to grating gap may vary from 0 to ½", max. to align walkway, allow for camber, etc.

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

OS-A-10 6-1-12

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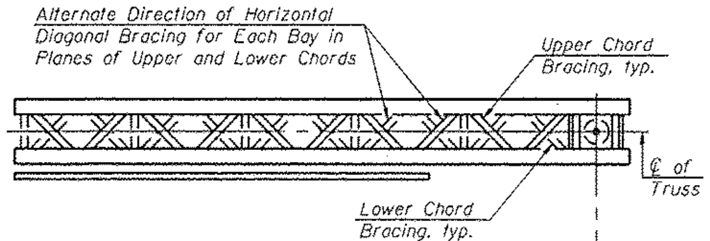
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

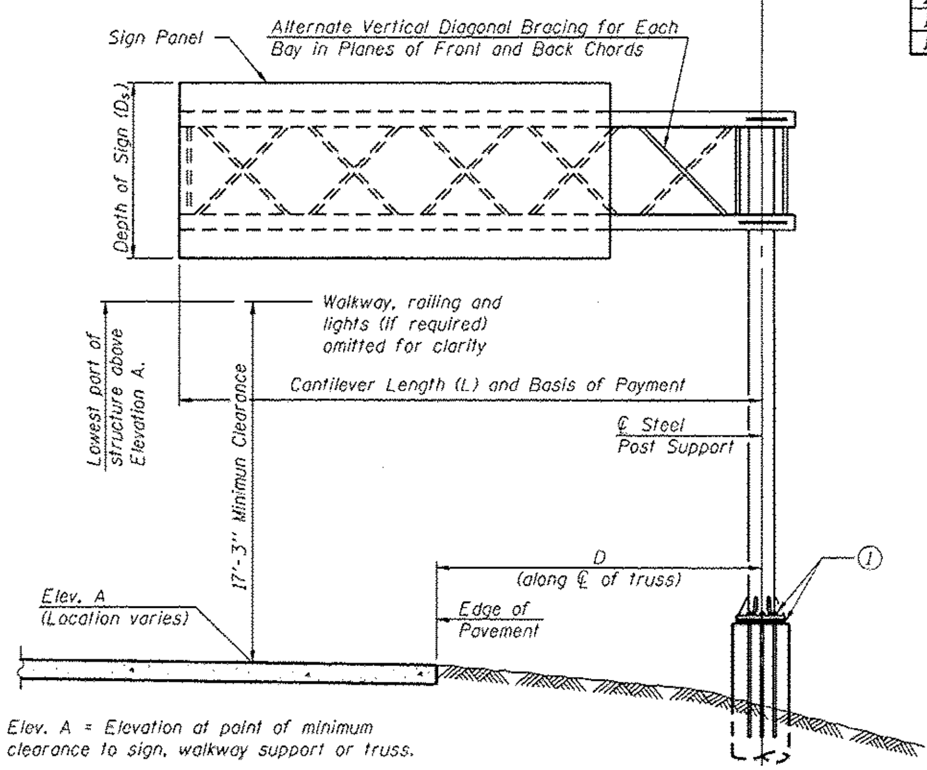
OVERHEAD SIGN STRUCTURES
ALUMINUM WALKWAY DETAILS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D1 OVH SIN STR REPL 15-10	VARIOUS	94	21
		CONTRACT NO. 46337		
		ILLINOIS FED. AID PROJECT		



TYPICAL PLAN
(Walkway not shown)



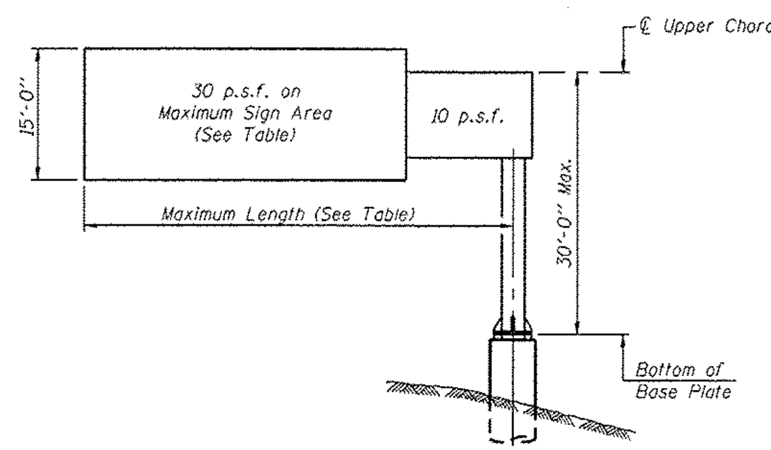
Elev. A = Elevation at point of minimum clearance to sign, walkway support or truss.

TYPICAL ELEVATION
Looking in Direction of Traffic

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

Structure Number	Location	Design Truss Type	Cantilever Length (L)	Elev. A	Dim. D	D_s	Total Sign Area
IC045U020L000.0-001	2	III-C-A	30'-0"	(2)	18'	5'	75.0
IC099I080R148.9-000	9	II-C-A	30'-0"	(2)	20'	7'	87.5
IC016I080L148.0-000	10	II-C-A	27'-0"	(2)	20'	7'	87.5
IC016I094R035.5-000	11	III-C-A	37'-0"	(2)	16'	8'-6"	143.75
~~IC016L000R000.0-000~~	~~16~~	~~I-C-A~~	~~21'-0"~~	~~(2)~~	~~5'~~	~~7'-6"~~	~~138.75~~
IC016L000R000.0-001	17	I-C-A	20'-0"	(2)	7'	3.5'	40.25
IC016L000R000.0-002	18	I-C-A	20'-0"	(2)	8'	5'	65.0
IC016L000R000.0-003	19	I-C-A	22'-0"	(2)	10'	7'	112.0
IC016L000R000.0-005	20	I-C-A	20'-0"	(2)	9'	5'	75.0
IC016L000L000.0-001	21	I-C-A	20'-0"	(2)	9'	5'	77.5
IC016L000L000.0-002	22	I-C-A	20'-0"	(2)	9'	7'	112.0
IC016L000L000.0-003	23	I-C-A	15'-0"	(2)	5'	5'	65.0
IC016L000L000.0-005	24	I-C-A	24'-0"	(2)	12'	7'-6"	138.75
IC016L000L000.0-000	25	I-C-A	17'-0"	(2)	6'	5'	60.0
IC016L000L000.0-004	26	I-C-A	20'-0"	(2)	8'	3.5'	40.25
IC016L000R000.0-004	27	I-C-A	18'-0"	(2)	5'	5'	77.5

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



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

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

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

(2) Survey elevations and distances are not available for this location. The contractor is responsible to obtain survey elevations and cantilever length and then determine the vertical dimensions and elevations for the steel post support, and the exact cantilever length.

* 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

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

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

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard 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 M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

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

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

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

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

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

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

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE I-C-A	Foot	216.0
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE II-C-A	Foot	57.0
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE III-C-A	Foot	67.0
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	92.2

OSC-A-1 8-21-13

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		DATE - 02/06/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES – GENERAL PLAN & ELEVATION
ALUMINUM TRUSS & STEEL POST

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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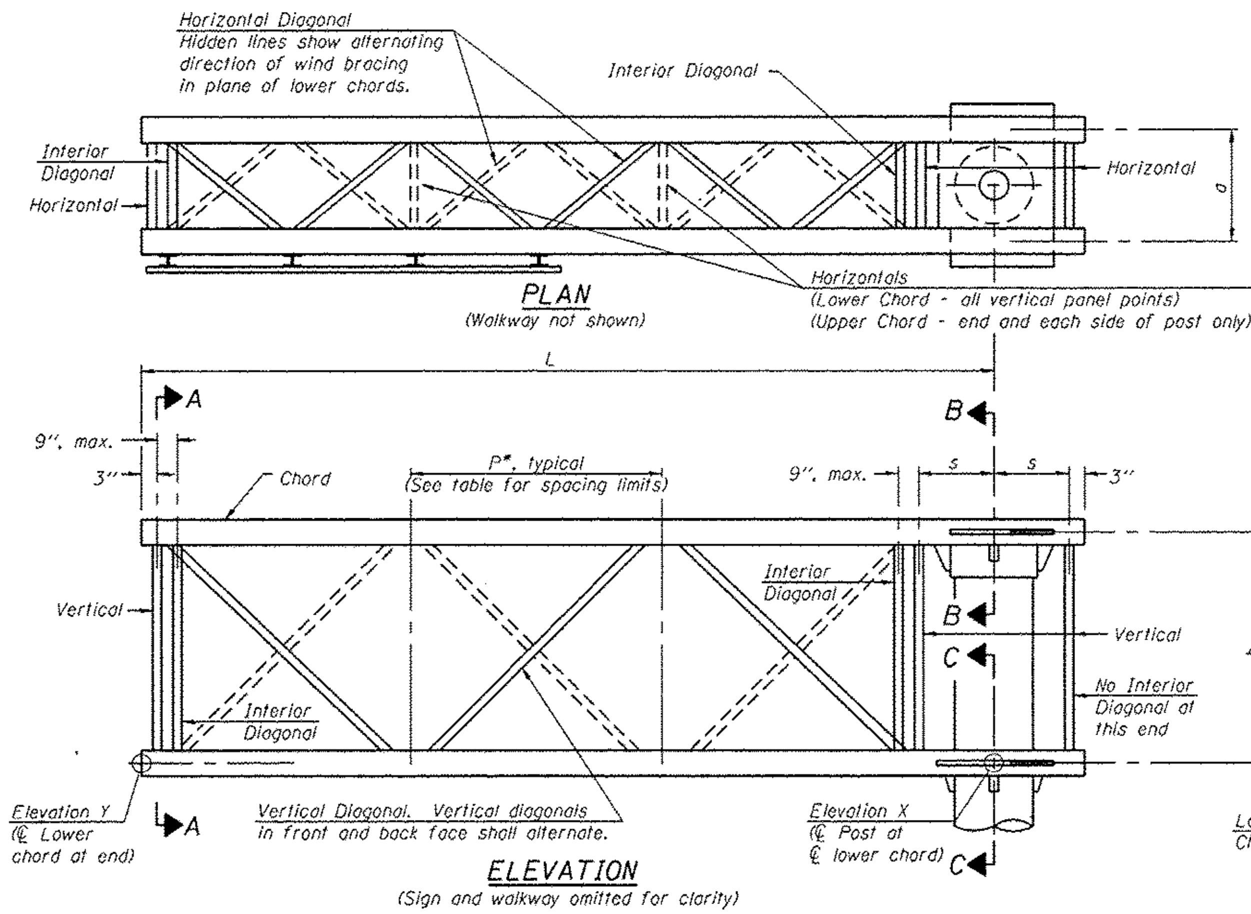
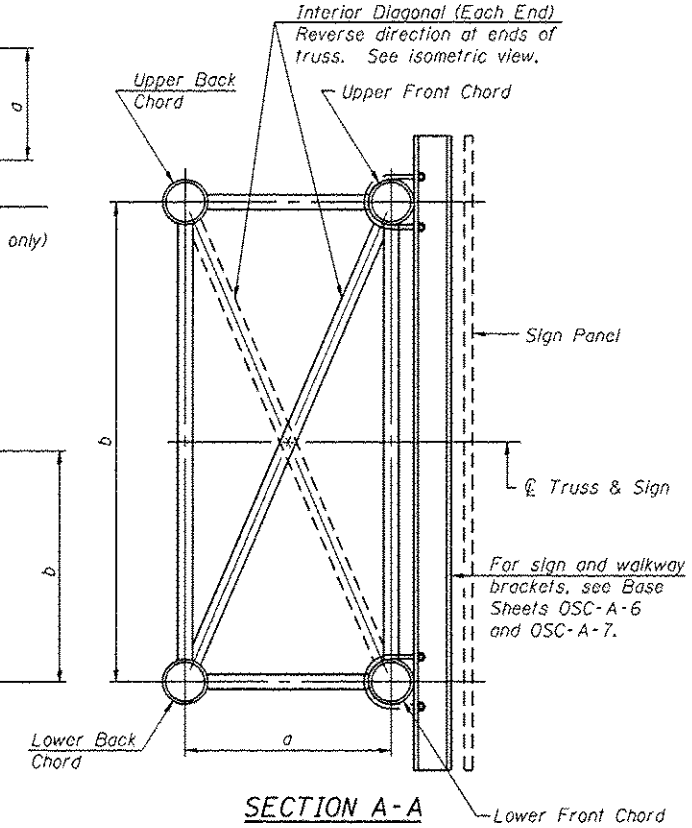
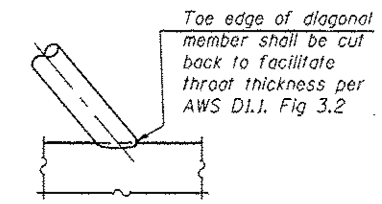
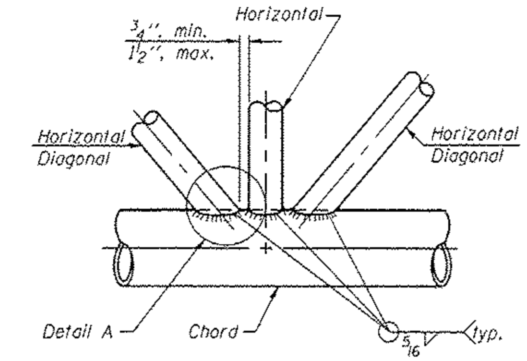
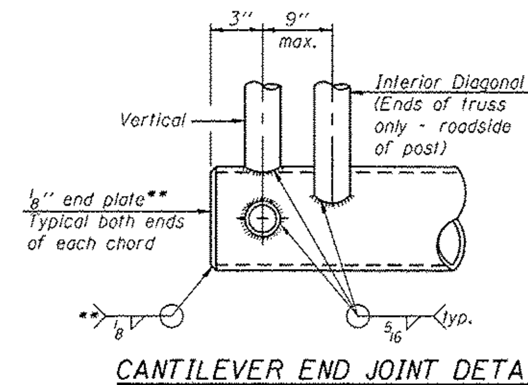
CONTRACT NO. 46337
ILLINOIS FED. AID PROJECT



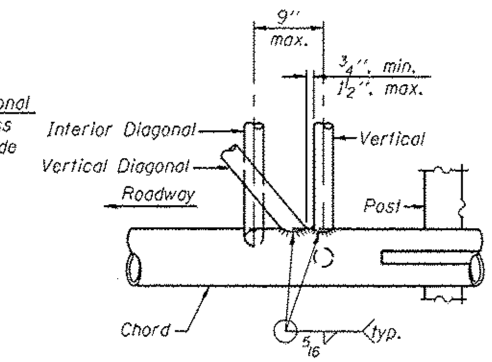








** Contractor may alternatively use standard aluminum drive-fit cap to close ends. 1/2" ϕ Drain hole in end plate / drive-fit cap.



TYPICAL TRUSS UNIT

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

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

TRUSS UNIT TABLE

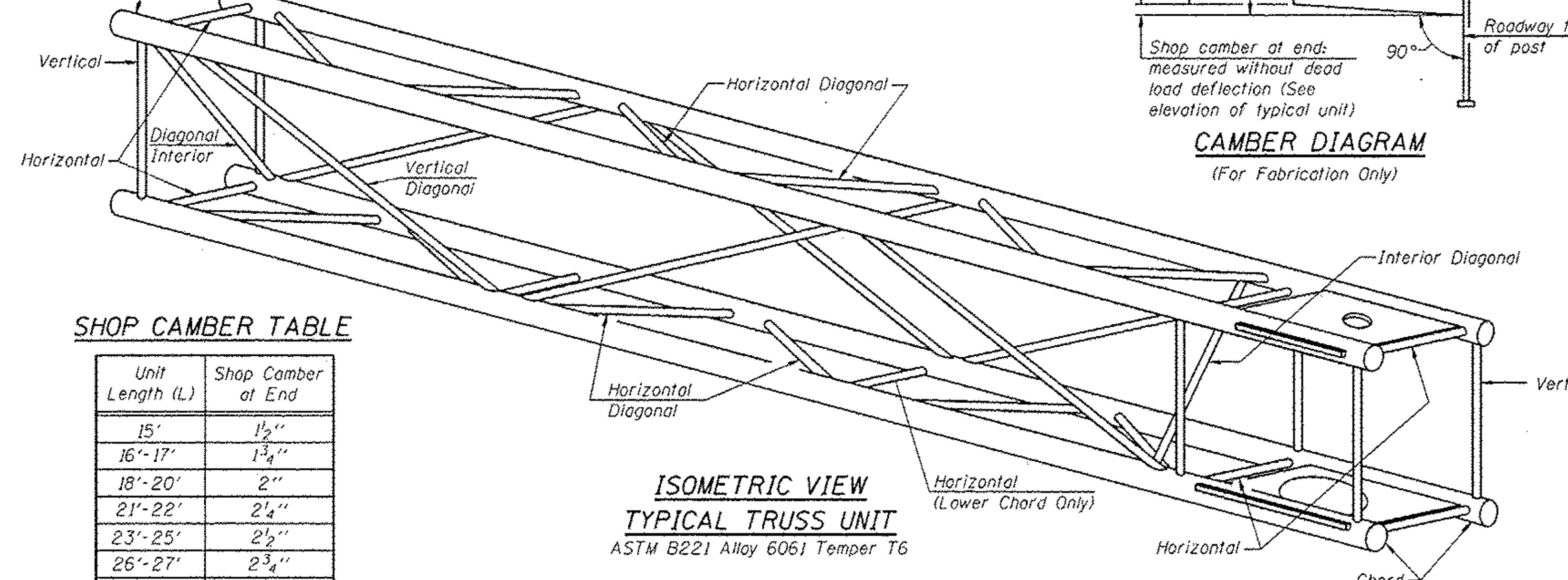
Truss Type	Dimension "a"	Dimension "b"	Dimension "s"	Limits for Panel Spacing (P)*	Up. & Low. Chord O.D.	Up. & Low. Chord Wall	Verticals: Horizontals: Vertical, Horizontal, and Interior Diagonals O.D.	Verticals: Horizontals: Vertical, Horizontal, and Interior Diagonals Wall
I-C-A	24"	54"	16"	36" min.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

$$*P = \frac{L - s - 3''}{\#\ Panels}$$

Structure Number	Location	Truss Type	Design Length (L)	Number of Panels Per Unit	Panel Length (P)*
IC045U020L000.0-001	2	III-C-A	30'-0"	7	4'-0"
IC099I080R148.9-000	9	II-C-A	30'-0"	7	4'-0"
IC016I080L148.0-000	10	II-C-A	27'-0"	6	4'-2"
IC016I094R035.5-000	11	III-C-A	37'-0"	7	5'-0"
~~IC016L000R000.0-000~~	~~16~~	~~I-C-A~~	~~21'-0"~~	~~5~~	~~3'-10 5/8"~~
IC016L000R000.0-001	17	I-C-A	20'-0"	5	3'-8 1/4"
IC016L000R000.0-002	18	I-C-A	20'-0"	5	3'-8 1/4"
IC016L000R000.0-003	19	I-C-A	22'-0"	6	3'-4 7/8"
IC016L000R000.0-005	20	I-C-A	20'-0"	5	3'-8 1/4"
IC016L000L000.0-001	21	I-C-A	20'-0"	5	3'-8 1/4"
IC016L000L000.0-002	22	I-C-A	20'-0"	5	3'-8 1/4"
IC016L000L000.0-003	23	I-C-A	15'-0"	4	3'-4 1/4"

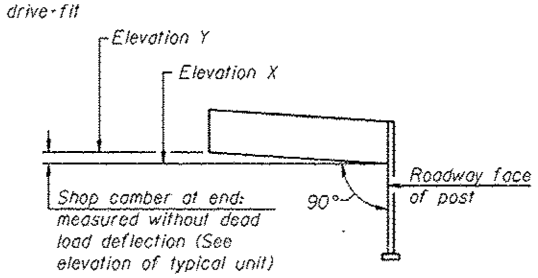
SHOP CAMBER TABLE

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



ISOMETRIC VIEW
TYPICAL TRUSS UNIT

ASTM B221 Alloy 6061 Temper T6



CAMBER DIAGRAM

(For Fabrication Only)

OSC-A-2 6-1-12

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES – TRUSS DETAILS
ALUMINUM TRUSS & STEEL POST (1 OF 2)

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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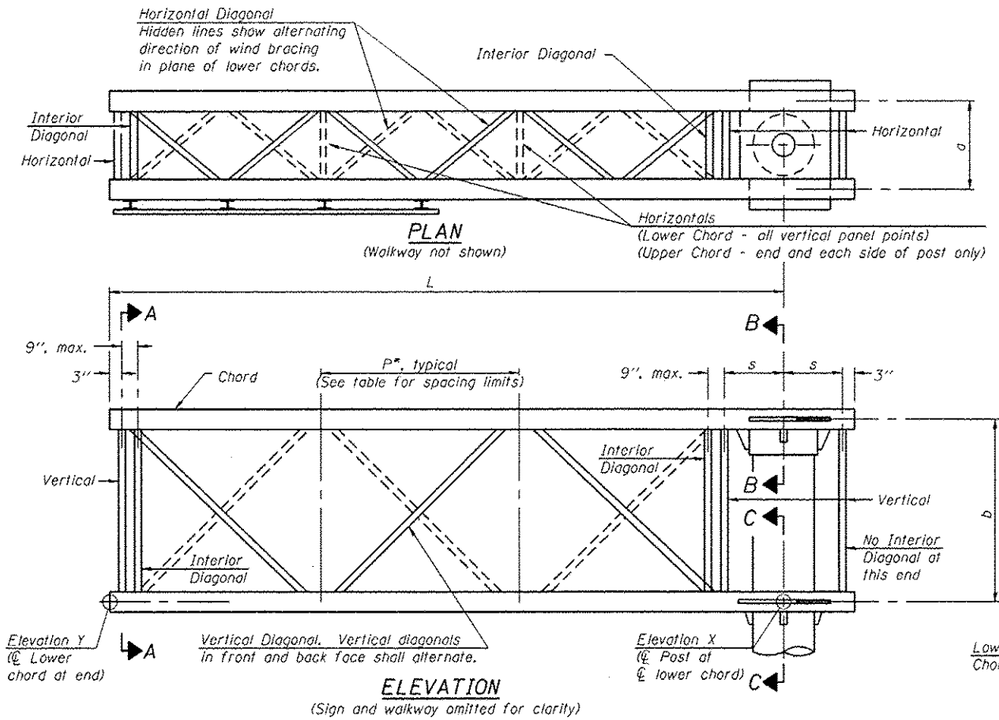
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			



TYPICAL TRUSS UNIT

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

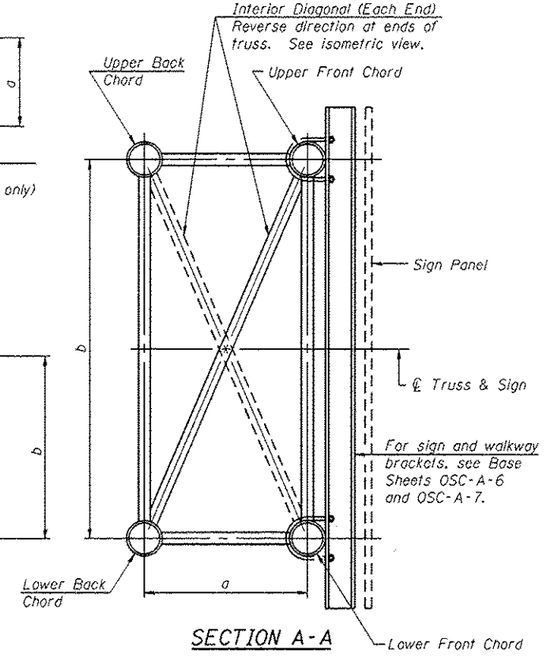
Note:
There are twice as many horizontal diagonals as there are vertical diagonals.

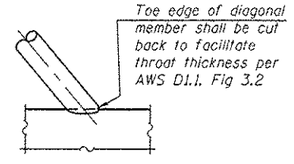
TRUSS UNIT TABLE

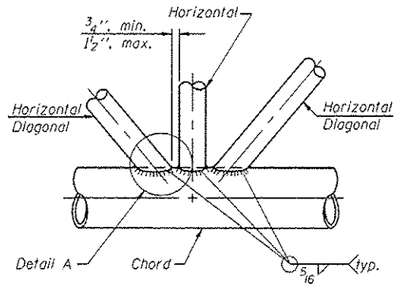
Truss Type	Dimension "a"	Dimension "b"	Dimension "s"	Limits for Panel Spacing (P)*	Up. & Low. Chord		Verticals: Horizontals: Vertical. Horizontal, and Interior Diagonals	
					O.D.	Wall	O.D.	Wall
I-C-A	24"	54"	16"	36" min. to 48" max.	5"	5/16"	2 1/2"	5/16"
II-C-A	36"	66"	21"	42" min. to 54" max.	6 1/2"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

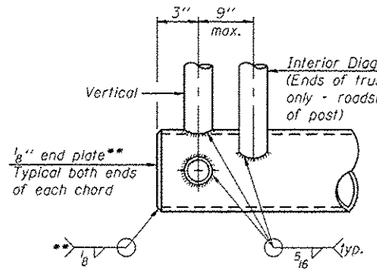
$$*P = \frac{L - s - 3''}{\#\ Panels}$$

Structure Number	Location	Truss Type	Design Length (L)	Number of Panels Per Unit	Panel Length (P)*
1C016L000L000.0-005	24	I-C-A	24'-0"	7	3'-2 3/8"
1C016L000L000.0-000	25	I-C-A	17'-0"	5	3'-1 3/8"
1C016L000L000.0-004	26	I-C-A	20'-0"	5	3'-8 1/4"
1C016L000R000.0-004	27	I-C-A	18'-0"	5	3'-3 3/8"

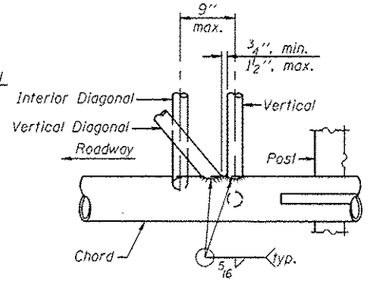


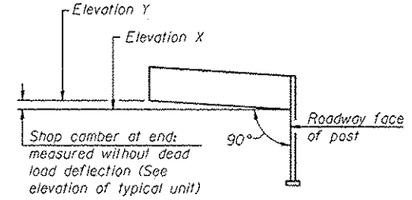






** Contractor may alternatively use standard aluminum drive-fit cap to close ends. 1/2" ϕ Drain hole in end plate / drive-fit cap.





SHOP CAMBER TABLE

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

ISOMETRIC VIEW
TYPICAL TRUSS UNIT
ASTM B221 Alloy 6061 Temper T6

OSC-A-2 6-1-12

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Default	PLOT DATE = 4/28/2015	DATE - 02/06/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES – TRUSS DETAILS
ALUMINUM TRUSS & STEEL POST (2 OF 2)

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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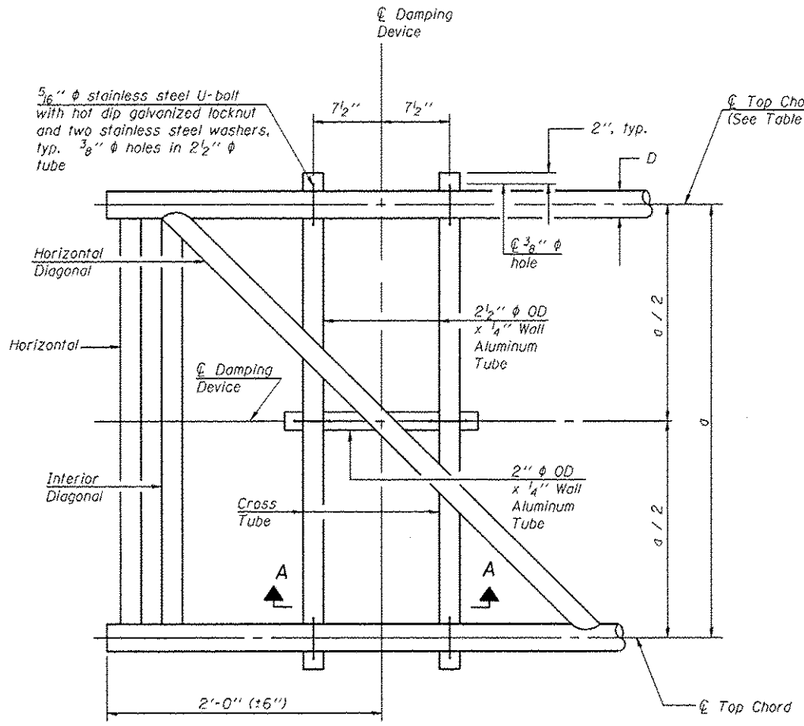
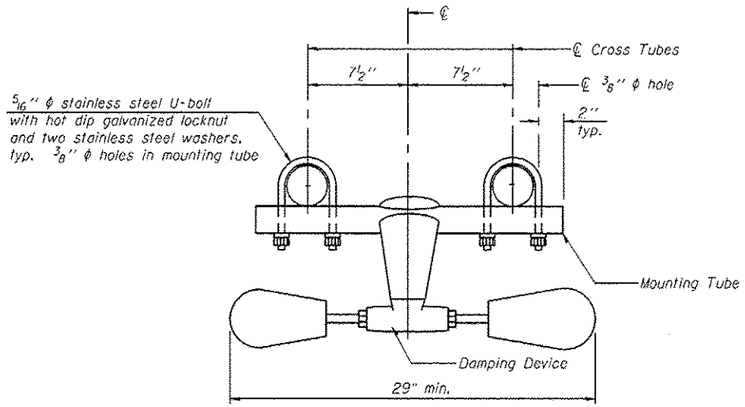
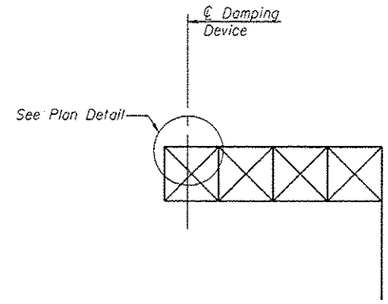
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			



PLAN DETAIL



TRUSS DAMPING DEVICE CONNECTION DETAIL

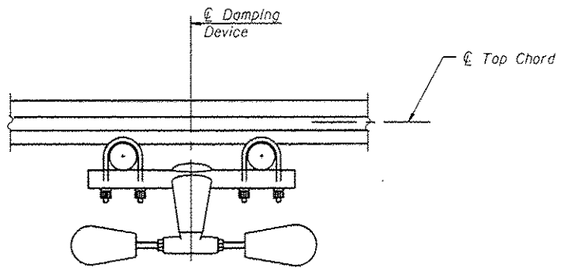


ELEVATION
Aluminum Cantilever Sign Structure

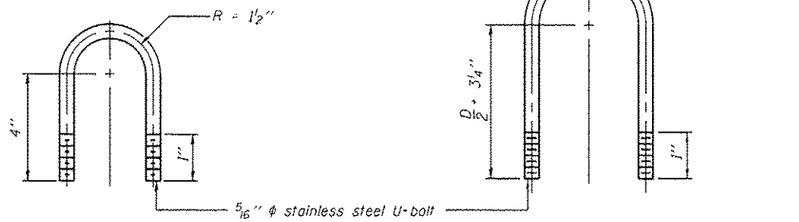
GENERAL NOTES

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

Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6



SECTION A-A



DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL
(Typical)

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

OSC-A-D 6-1-12

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURE
DAMPING DEVICE

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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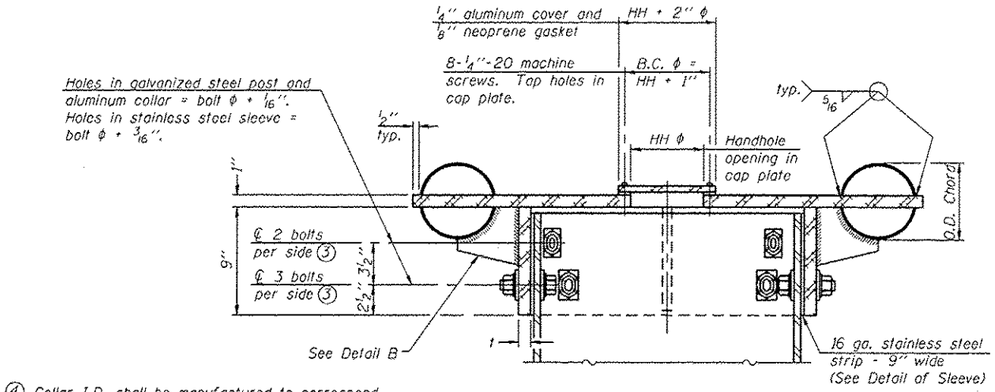
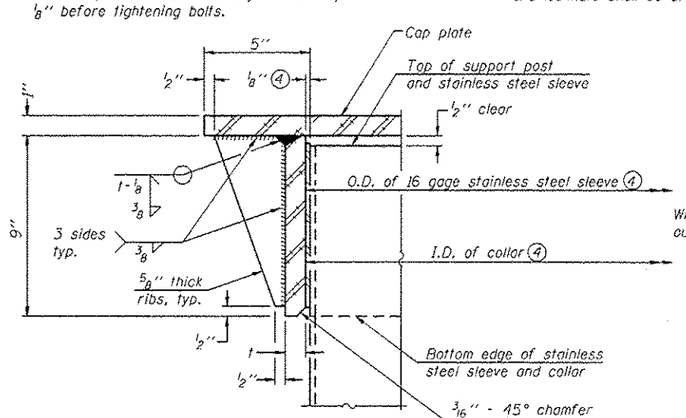
	ILLINOIS FED. AID PROJECT			



SECTION B-B

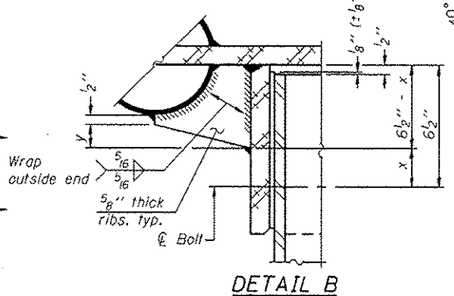
Bolts, washers (including contoured washers), and locknuts shall be stainless steel.

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



DETAIL A

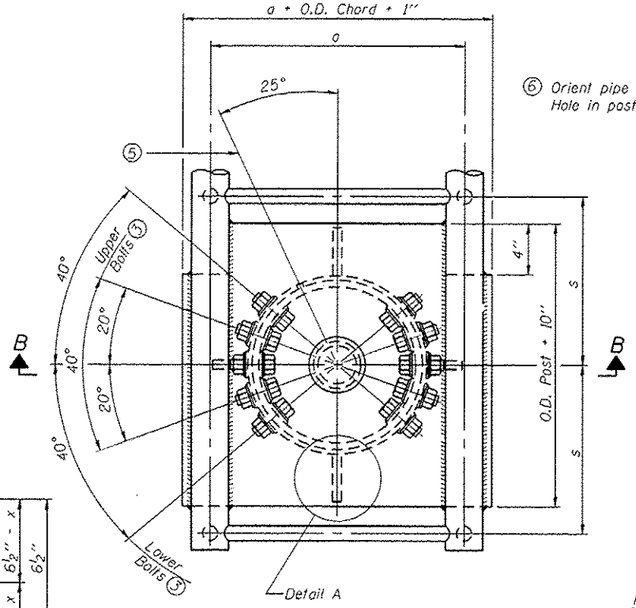
(Two locations)



DETAIL B

Two locations

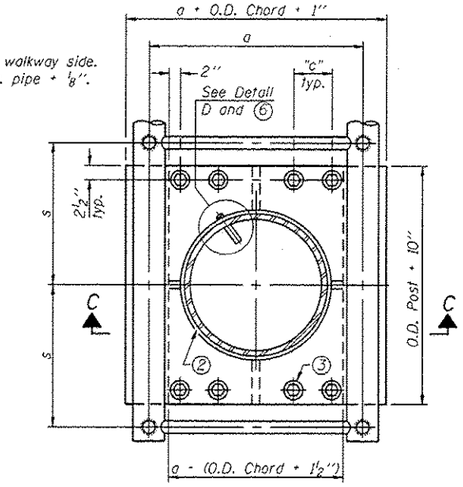
(For details not shown, see Detail C)



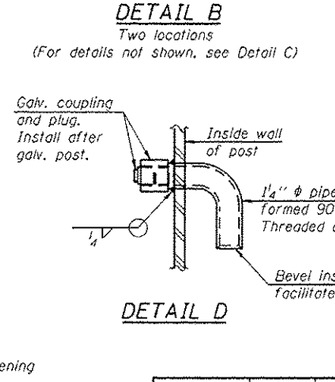
PLAN VIEW - TOP OF COLUMN

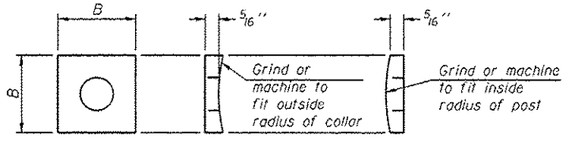
⑤ Optional full penetration weld in collar. (Two locations maximum....(180° apart)....X-ray or UT 100%)

⑥ Orient pipe toward walkway side. Hole in post = O.D. pipe + 1/8".



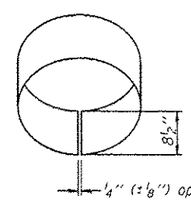
SECTION THRU POST ABOVE LOWER CHORDS





CONTOURED WASHERS

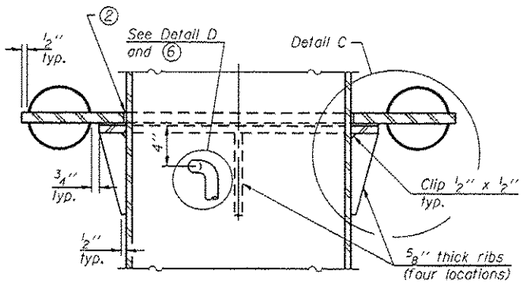
Bolt Size	Contoured Washers	
	Hole Dia.	B
7/8"	1"	2 1/2"
1"	1 1/8"	3"
1 1/4"	1 3/8"	3 1/4"



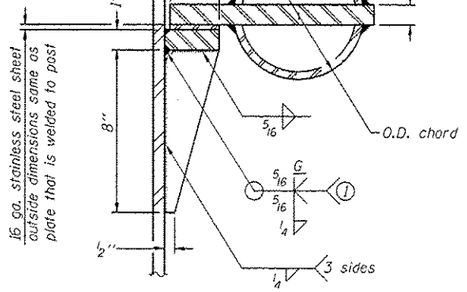
DETAIL OF STAINLESS STEEL SLEEVE

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

DETAIL D



SECTION C-C



DETAIL C

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

① Grind top if required to fully seat aluminum plate and stainless steel sheet.

② After tightening lower connection bolts, fill gap with non-hardening, silicone caulk suitable for exterior exposure and acceptable to the Engineer. Cost is included in Overhead Sign Structure Cantilever.

③ Upper and lower connection bolts in collar and bolts at lower chord connection shall be high strength with matching locknuts. Connection bolts shall have 2 stainless steel flat washers each.

OSC-A-3 6-1-12

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - JUNCTURE DETAILS
ALUMINUM TRUSS & STEEL POST

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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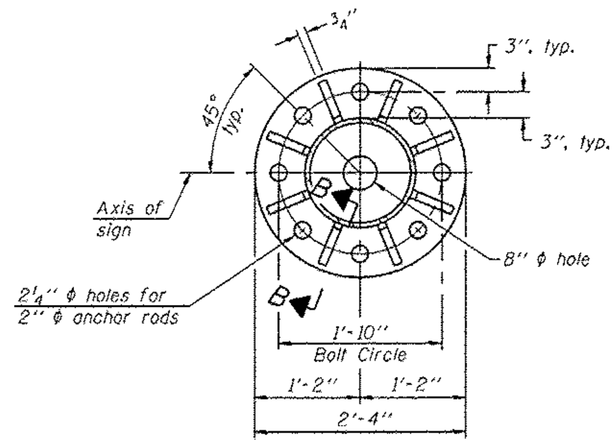
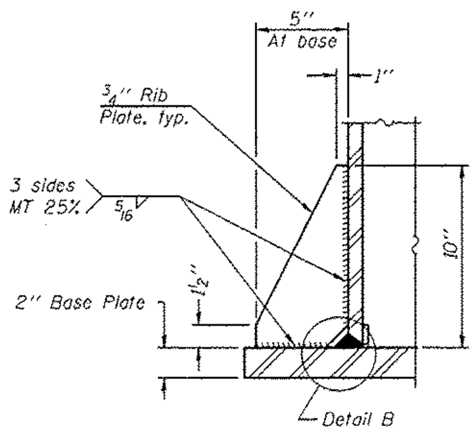
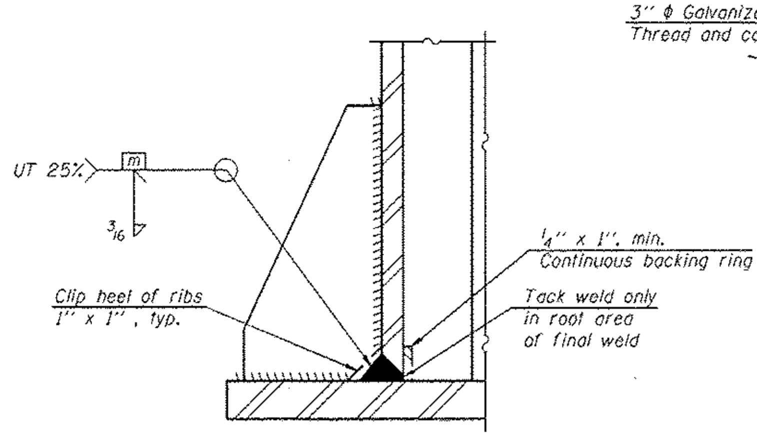
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			



SECTION A-A

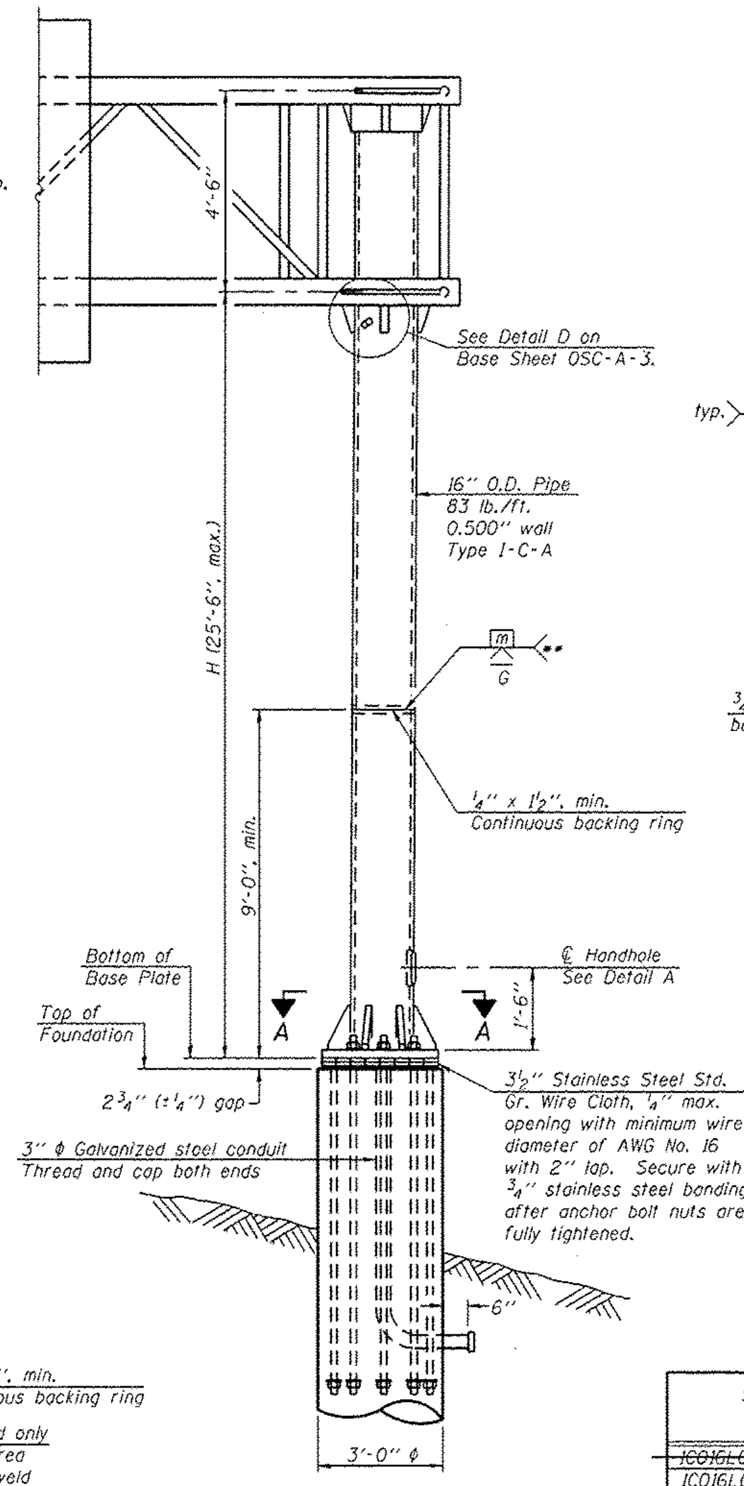


SECTION B-B



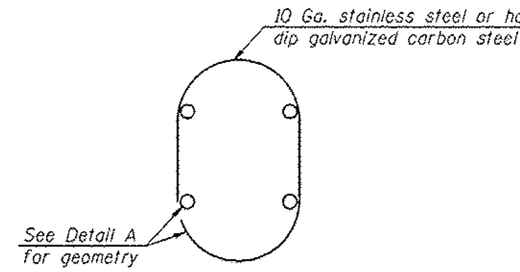
DETAIL B

(Typical rib)

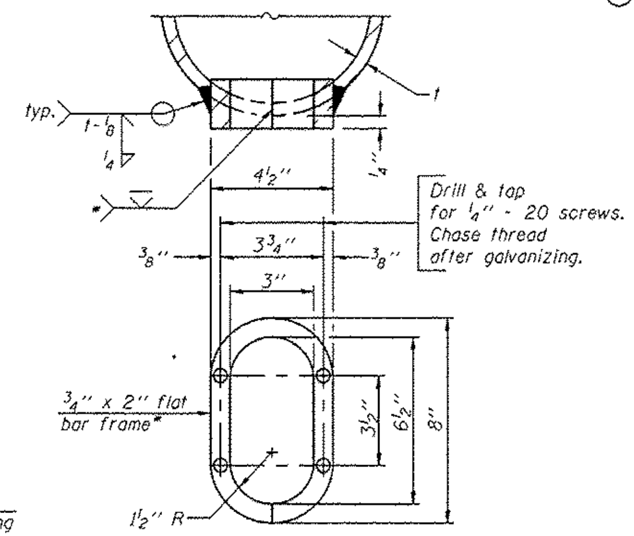


FRONT ELEVATION

For Foundation Details see Base Sheet OSC-A-9.



HANDHOLE COVER

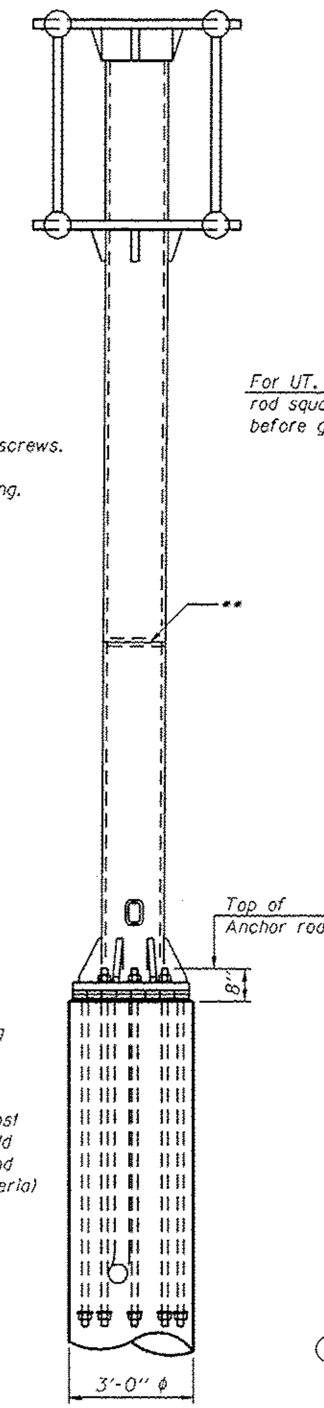


Provide 8" x 4 1/2" cover. Outside corners = 2 1/4" radius. Provide 4-5/16" ϕ holes in cover for 1/4" - 20 round head hot dip galvanized or stainless steel machine screws. (See cover details.)

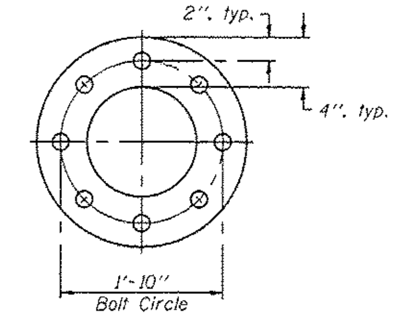
DETAIL A

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

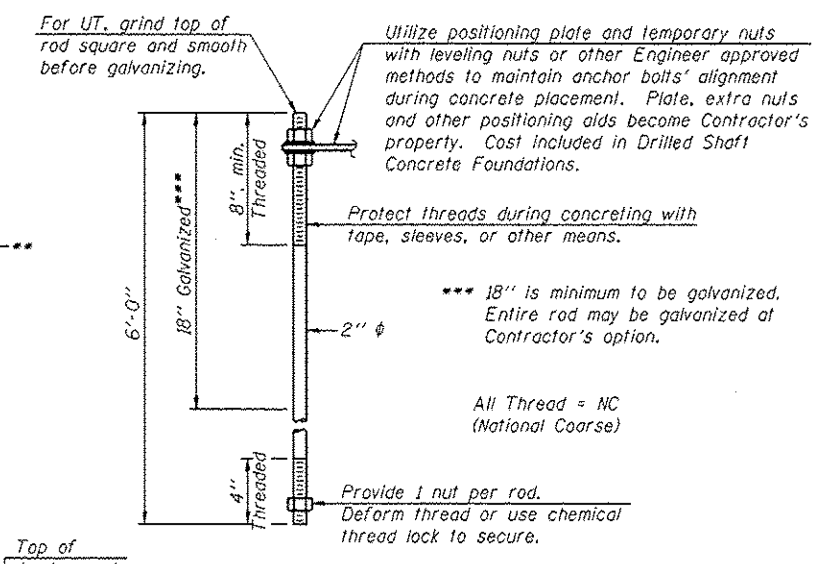
** Butt welded joint in post is only allowed for post heights (H) over 20 ft. in length. If used, weld procedure must be preapproved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.



SIDE ELEVATION



SUGGESTED POSITIONING PLATE



ANCHOR ROD DETAIL

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

NOTE:

(1) Survey elevations and distances are not available for this location. The contractor is responsible to obtain survey elevations and cantilever length and then determine the vertical dimensions and elevations for the steel post support, and the exact cantilever length.

Structure Number	Location	H (1)
~~IC016L000R000.0-000~~	~~16~~	~~20'-6 1/4"~~
IC016L000R000.0-001	17	20'-6 1/4"
IC016L000R000.0-002	18	20'-6 1/4"
IC016L000R000.0-003	19	20'-6 1/4"
IC016L000R000.0-005	20	21'-6 1/4"
IC016L000L000.0-001	21	20'-6 1/4"
IC016L000L000.0-002	22	20'-6 1/4"
IC016L000L000.0-003	23	20'-6 1/4"
IC016L000L000.0-005	24	21'-6 1/4"
IC016L000L000.0-000	25	20'-6 1/4"
IC016L000L000.0-004	26	20'-6 1/4"
IC016L000R000.0-004	27	20'-6 1/4"

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

OSC-A-4 6-1-12

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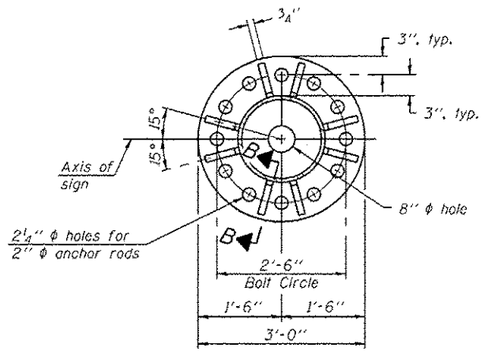
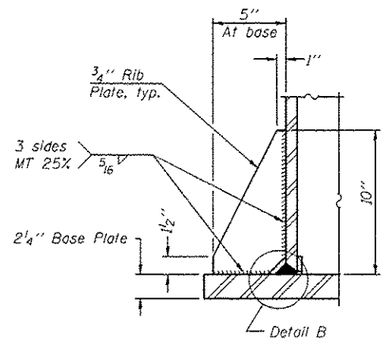
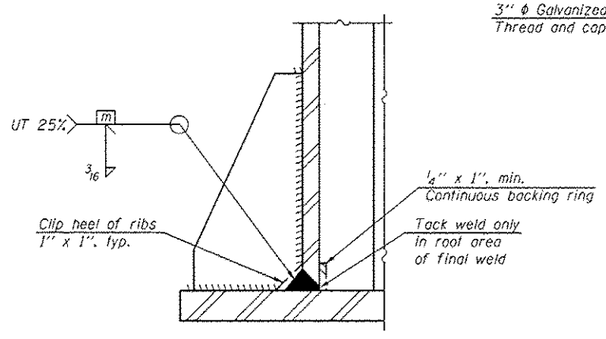
			REVISED -			



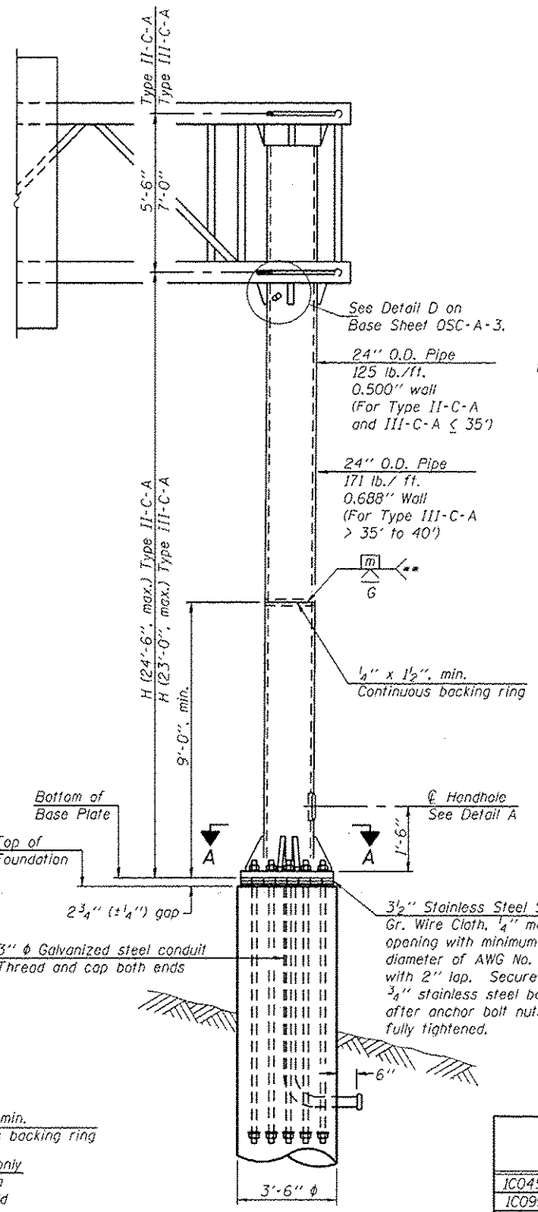
SECTION A-A



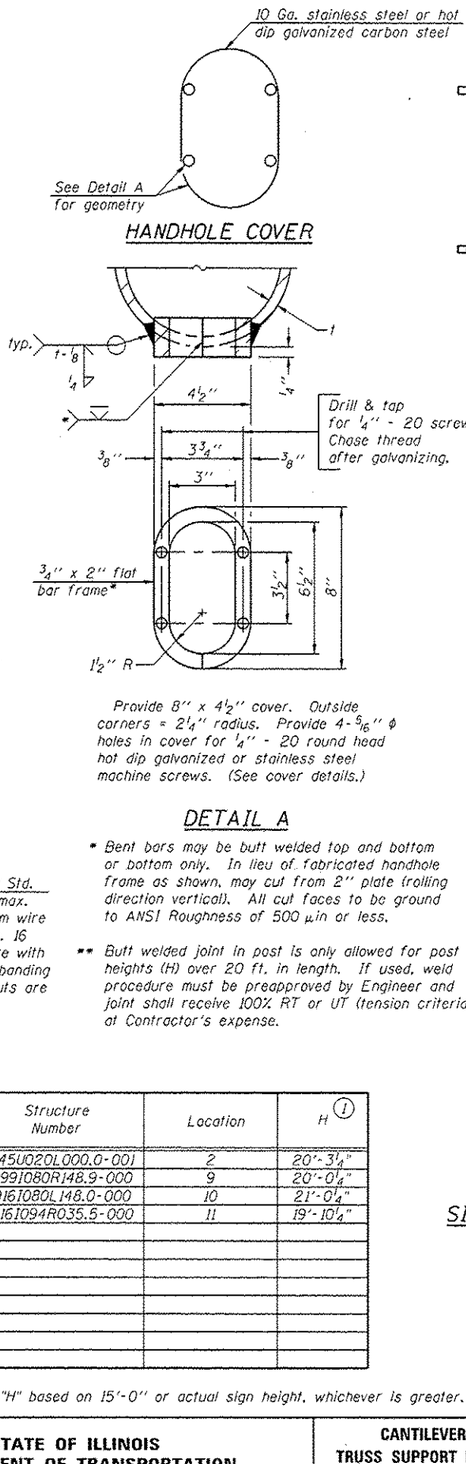
SECTION B-B



DETAIL B
(Typical rib)



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



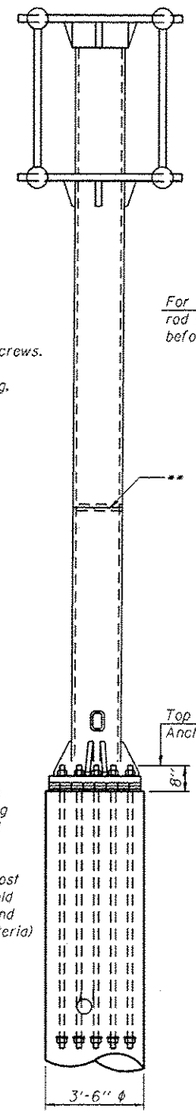
HANDHOLE COVER

Provide 8" x 4 1/2" cover. Outside corners = 2 1/4" radius. Provide 4-5/16" ϕ holes in cover for 1/4" - 20 round head hot dip galvanized or stainless steel machine screws. (See cover details.)

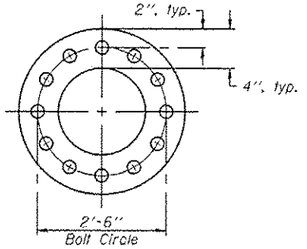
DETAIL A

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

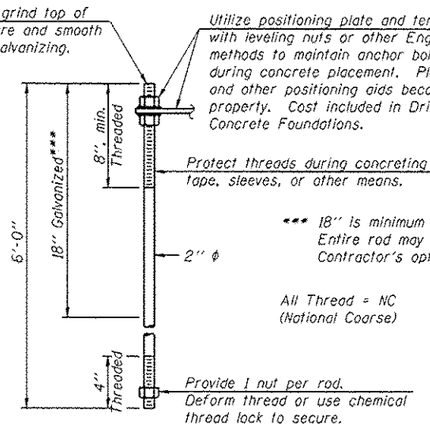
** Butt welded joint in post is only allowed for post heights (H) over 20 ft. in length. If used, weld procedure must be preapproved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.



SIDE ELEVATION



SUGGESTED POSITIONING PLATE



ANCHOR ROD DETAIL

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

(1) NOTE:
Survey elevations and distances are not available for this location. The contractor is responsible to obtain survey elevations and cantilever length and then determine the vertical dimensions and elevations for the steel post support, and the exact cantilever length.

Structure Number	Location	H (1)
IC045U020L000.0-001	2	20'-3 1/4"
IC099I080R148.9-000	9	20'-0 1/4"
IC016I080L148.0-000	10	21'-0 1/4"
IC016I094R035.5-000	11	19'-10 1/4"

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

OSC-A-5 6-1-12

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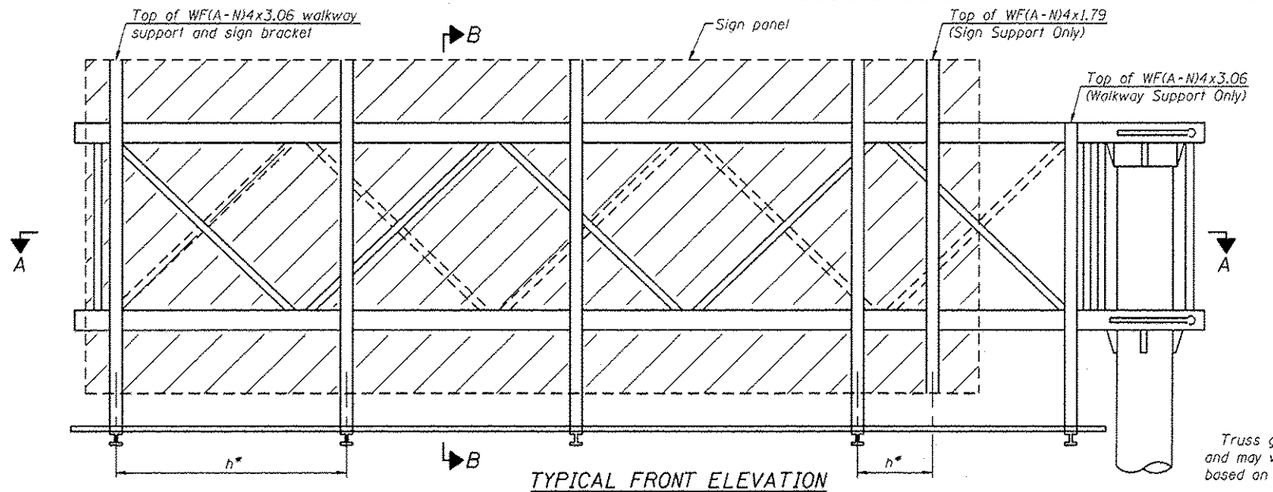
Default	PLOT DATE = 4/20/2015	DATE - 02/06/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES – TYPE II-C-A & III-C-A
TRUSS SUPPORT POST – ALUMINUM TRUSS & STEEL POST (2 OF 2)

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

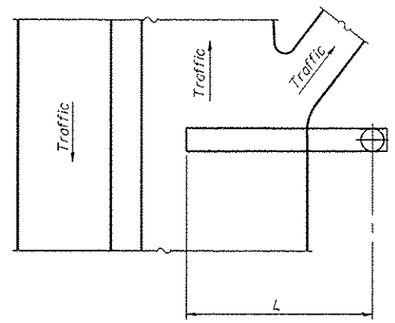
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	01 OVH SIN STR REPL 15-10	VARIOUS	94	28
		CONTRACT NO. 46337		
		ILLINOIS FED. AID PROJECT		



TYPICAL FRONT ELEVATION

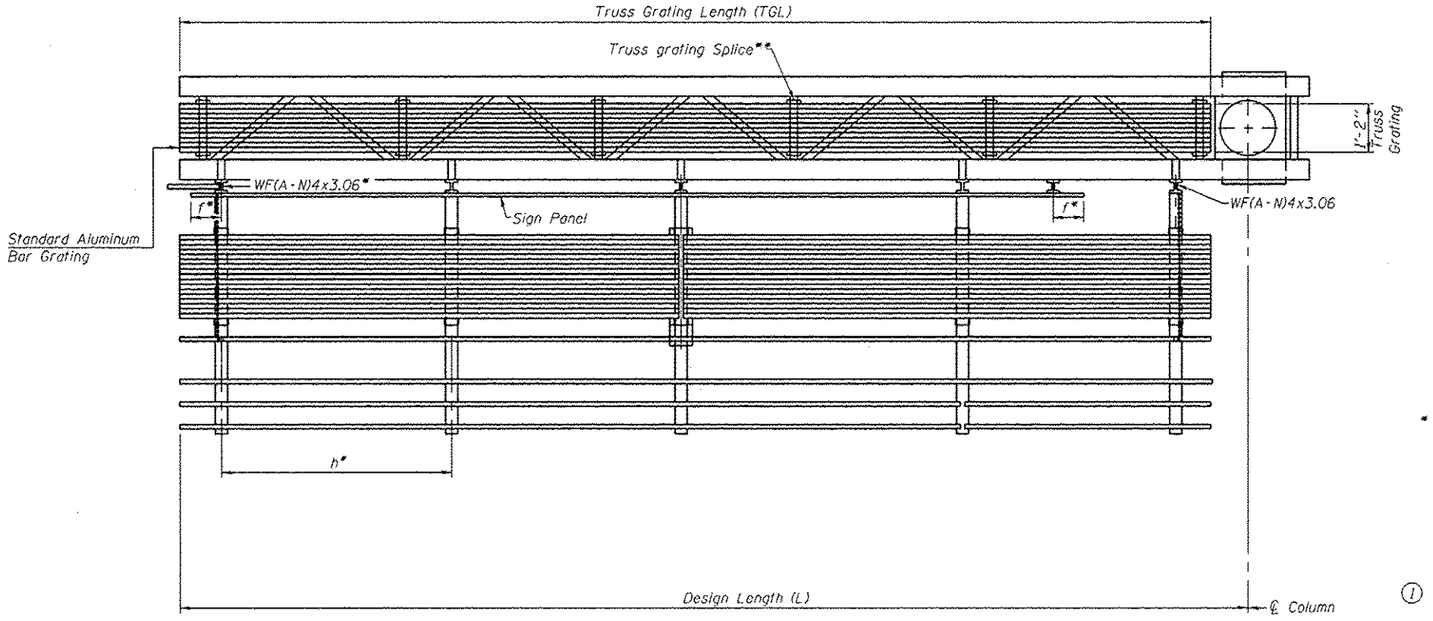
With lights and handrail omitted for clarity.

Truss grating dimensions are nominal and may vary (width ±½", depth ±½") based on available standard widths.



PLAN
WALKWAY AND HANDRAIL SKETCH

(Road plan beneath truss varies)



SECTION A-A

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

External walkway and light fixture supports will not be required.

** Use end location of handrail joints or grating splices are optional, based on lengths needed and material availability.

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

Structure Number	Location	WGL	ED	TGL (1)
IC045U020L000.0-001	2	-	-	28'-6"
IC099I080R148.9-000	9	-	-	28'-6"
IC016I080L148.0-000	10	-	-	25'-6"
IC016I094R035.5-000	11	-	-	35'-6"
~~IC016L000R000.0-000~~	~~16~~			~~19'-10"~~
IC016L000R000.0-001	17	-	-	18'-10"
IC016L000R000.0-002	18	-	-	18'-10"
IC016L000R000.0-003	19	-	-	20'-10"
IC016L000R000.0-005	20	-	-	18'-10"
IC016L000L000.0-001	21	-	-	18'-10"
IC016L000L000.0-002	22	-	-	18'-10"
IC016L000L000.0-003	23	-	-	13'-10"
IC016L000L000.0-005	24	-	-	22'-10"
IC016L000L000.0-000	25	-	-	15'-10"
IC016L000L000.0-004	26	-	-	18'-10"
IC016L000R000.0-004	27	-	-	16'-10"

Notes:

* Space walkway brackets WF(A-N)4x3.06 and sign brackets WF(A-N)4x1.79 for efficiency and within limits shown:

  f = 12" maximum, 4" minimum (End of sign to ℄ of nearest bracket)
  h = 6'-0" maximum (℄ to ℄ sign and/or walkway support brackets. WF(A-N)4x1.79 or WF(A-N)4x3.06)

  For details of sign placement, sign/walkway brackets, truss and walkway gratings, grating splices and Section B-B, see Base Sheet OSC-A-7.
  For details of handrail, handrail joint, safety chain and Details F and G, see Base Sheet OSC-A-8.

(1) Survey elevations and distances are not available for this location. The contractor is responsible to adjust TGL according to actual cantilever length.

BRACKET TABLE

WF(A-N)4x1.79 or WF(A-N)4x3.06
ASTM B308, Alloy 6061-T6

Sign Width		Number Brackets Required
Greater Than	Less Than or Equal To	
	8'-0"	2
8'-0"	14'-0"	3
14'-0"	20'-0"	4
20'-0"	26'-0"	5
26'-0"	32'-0"	6

OSC-A-6 6-1-12

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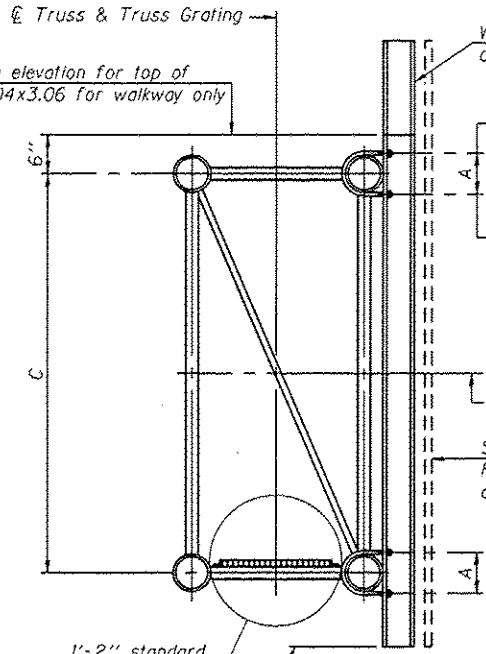
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - MD 06/29/2015
Default	PLOT DATE = 7/6/2015	DATE - 02/06/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES – ALUMINUM WALKWAY
DETAILS – ALUMINUM TRUSS & STEEL POST

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D1 OVH SIN STR REPL 15-10	VARIOUS	94	29
		CONTRACT NO. 46337		
		ILLINOIS FED. AID PROJECT		



Structure Number	Location	A	⑥ B	C	⑥ D
IC045U020L000.0-001	2	8"	-	7'-0"	-
IC099I080R148.9-000	9	7½"	-	5'-6"	-
IC016I080L148.0-000	10	7½"	-	5'-6"	-
IC016I094R035.5-000	11	9"	-	7'-0"	-
~~IC016L000R000.0-000~~	~~16~~	~~6"~~		~~4'-6"~~	
IC016L000R000.0-001	17	6"	-	4'-6"	-
IC016L000R000.0-002	18	6"	-	4'-6"	-
IC016L000R000.0-003	19	6"	-	4'-6"	-
IC016L000R000.0-005	20	6"	-	4'-6"	-
IC016L000L000.0-001	21	6"	-	4'-6"	-
IC016L000L000.0-002	22	6"	-	4'-6"	-
IC016L000L000.0-003	23	6"	-	4'-6"	-
IC016L000L000.0-005	24	6"	-	4'-6"	-
IC016L000L000.0-000	25	6"	-	4'-6"	-
IC016L000L000.0-004	26	6"	-	4'-6"	-
IC016L000R000.0-004	27	6"	-	4'-6"	-

SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

Main Bearing Bars (MBB) shall be 3/16" x 1½" on 1 3/16" centers and conform to ASTM B211 Alloy 6061-T6.

Cross bars (CB) shall be 3/16" x 1½" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

OR

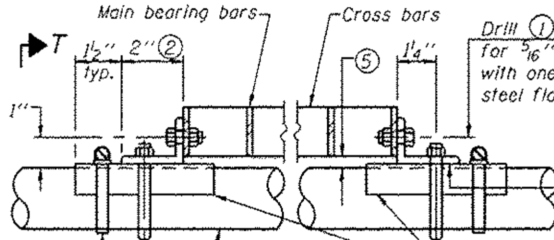
Aluminum Grating with modified "t" sections for main bearing bars shall meet the following requirements:

Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in.^{3} per bar, a depth of 1½", spaced on 1 3/16" centers.

Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

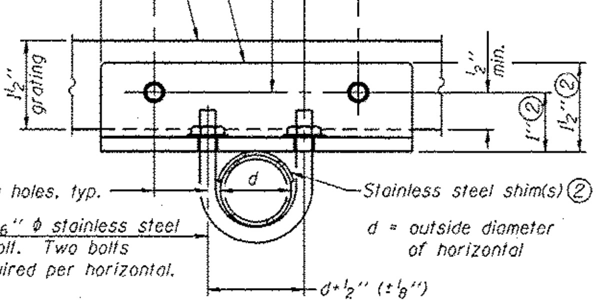
SECTION B-B

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

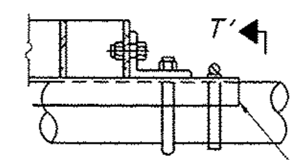


DETAIL T

(Continuous Truss grating)



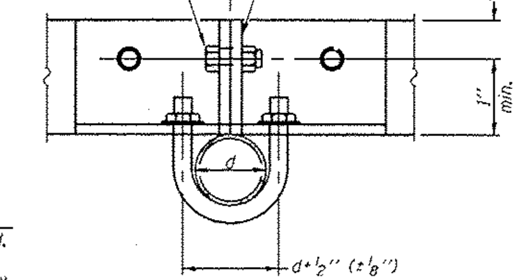
SECTION T-T



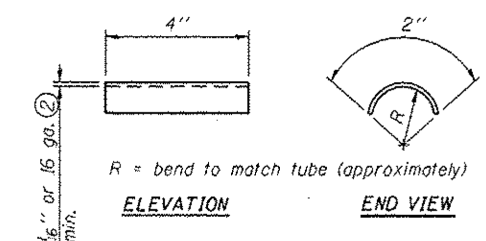
DETAIL T'

(Truss grating splice)

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



SECTION T'-T'



SHIM DETAIL

① Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.

② Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.

⑤ Tube to grating gap may vary from 0 to ½", max. to align walkway, allow for camber, etc.

⑥ Based on actual sign height, D_S, given on OSC-A-1.

OSC-A-7 6-1-12

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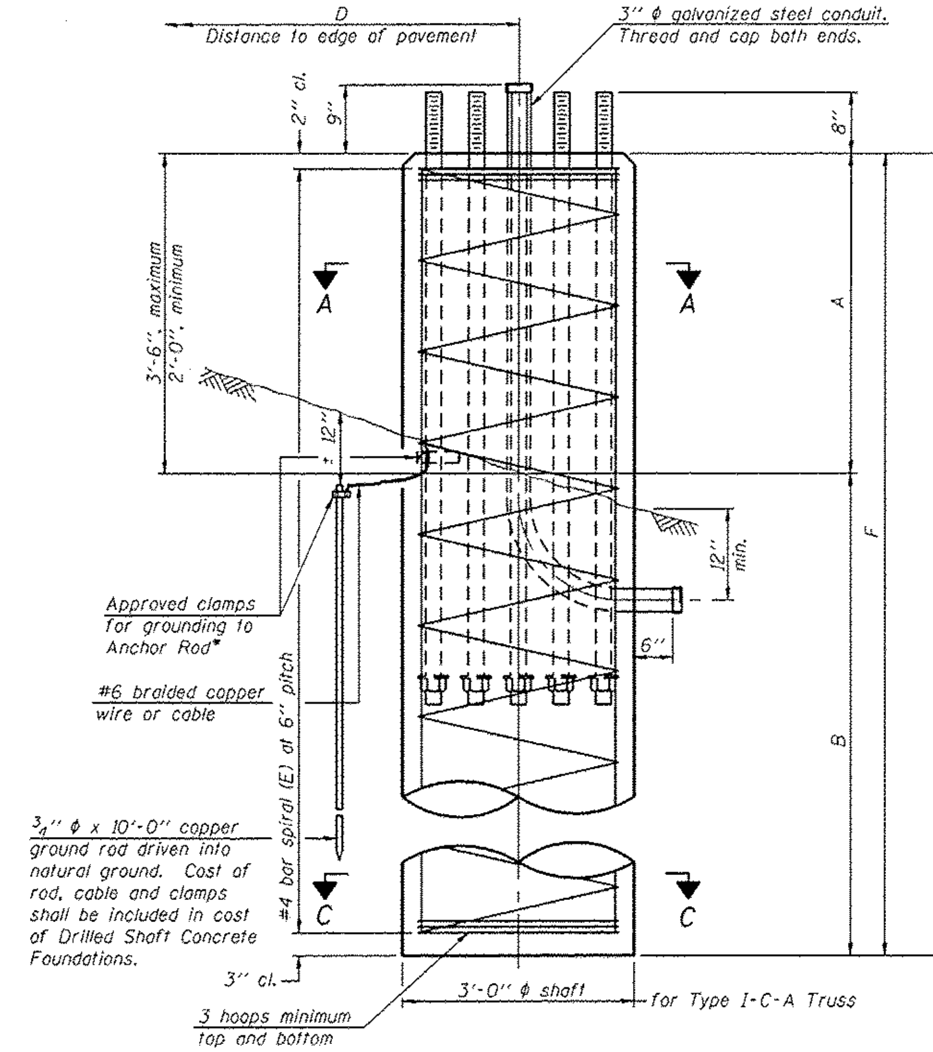
	PLOT DATE = 7/6/2015	DATE - 02/06/2015	REVISED -		
			REVISED -		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	01 OVH SIN STR REPL 15-10	VARIOUS	94	30
		CONTRACT NO. 46337		
		ILLINOIS FED. AID PROJECT		

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



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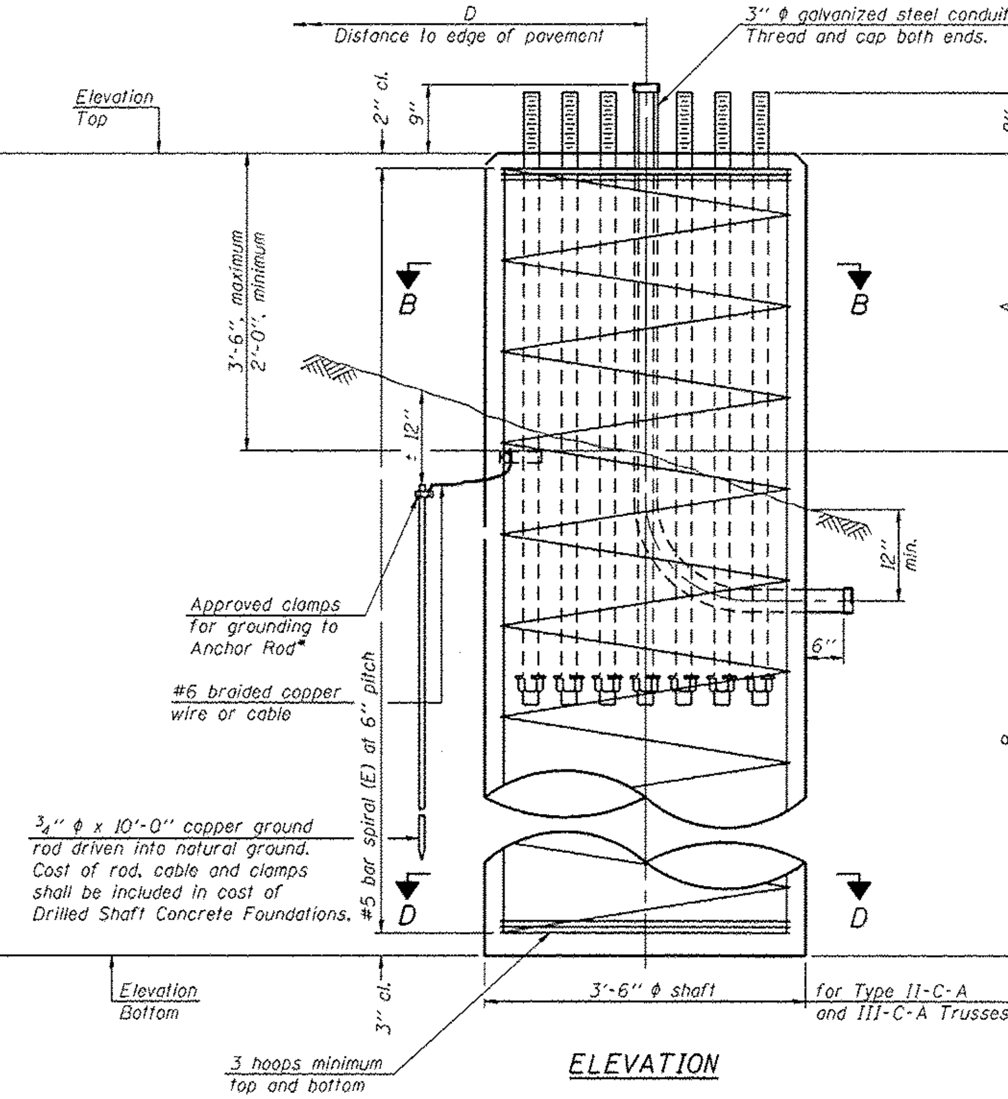

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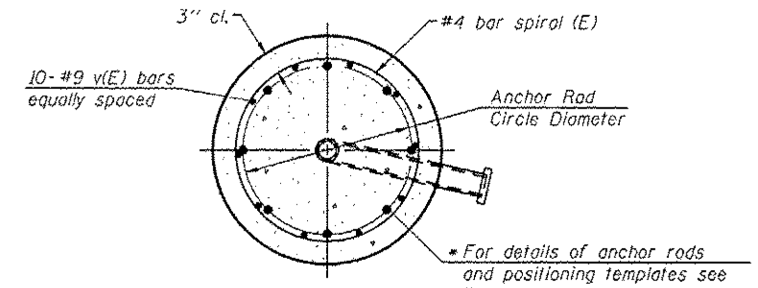
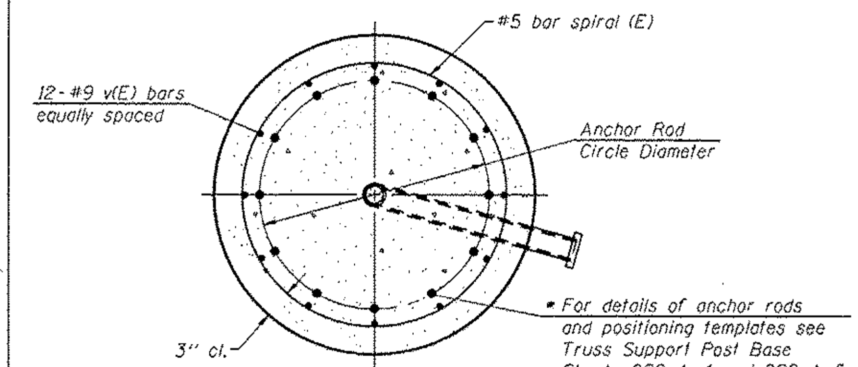


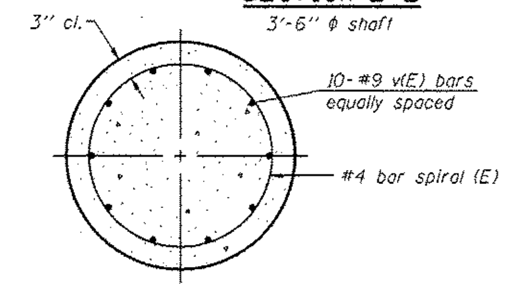
SECTION A-A

3'-0" ϕ shaft



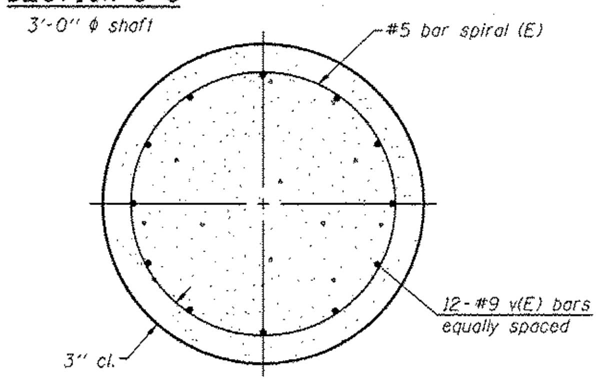
SECTION B-B

3'-6" ϕ shaft



SECTION C-C

3'-0" ϕ shaft



SECTION D-D

3'-6" ϕ shaft

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 Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in "Drilled Shaft Concrete Foundation".

(1) Survey elevations and distances are not available for this location. The contractor is responsible to obtain survey elevations and cantilever length and then determine the vertical dimensions and elevations for the steel post support, and the exact cantilever length.

FOUNDATION DESIGN TABLE

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

FOUNDATION DATA TABLE

Structure Number	Location	Truss Type	Shaft Diameter	Elevation Top	Elevation Bottom	Qu	A	B	F	Class DS Concrete Cubic Yards
IC045U020L000.0-001	2	III-C-A	3'-6"	(1)	(1)		2'-0"	26'-6"	28'-6"	10.2
IC099I080R148.9-000	9	II-C-A	3'-6"	(1)	(1)		2'-0"	17'-0"	19'-0"	6.8
IC016I080L148.0-000	10	II-C-A	3'-6"	(1)	(1)		2'-0"	17'-0"	19'-0"	6.8
IC016I094R035.5-000	11	III-C-A	3'-6"	(1)	(1)		2'-5"	32'-0"	34'-5"	12.3
~~IC016L000R000.0-000~~	~~16~~	~~I-C-A~~	~~3'-0"~~	~~(1)~~	~~(1)~~		~~3'-0"~~	~~18'-0"~~	~~21'-0"~~	~~5.5~~
IC016L000R000.0-001	17	I-C-A	3'-0"	(1)	(1)		3'-0"	16'-0"	19'-0"	5.0
IC016L000R000.0-002	18	I-C-A	3'-0"	(1)	(1)		3'-0"	16'-0"	19'-0"	5.0

OSC-A-9 8-21-13

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		DATE - 02/06/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES – DRILLED SHAFT
ALUMINUM TRUSS & STEEL POST (1 OF 3)

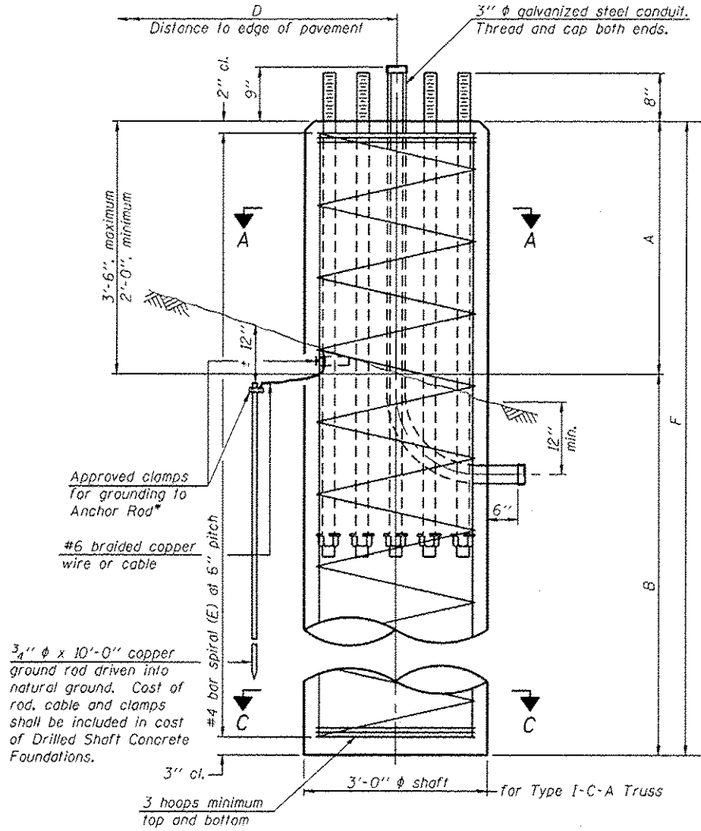
SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D1 OVH SIN STR REPL 15-10	VARIOUS	94	31

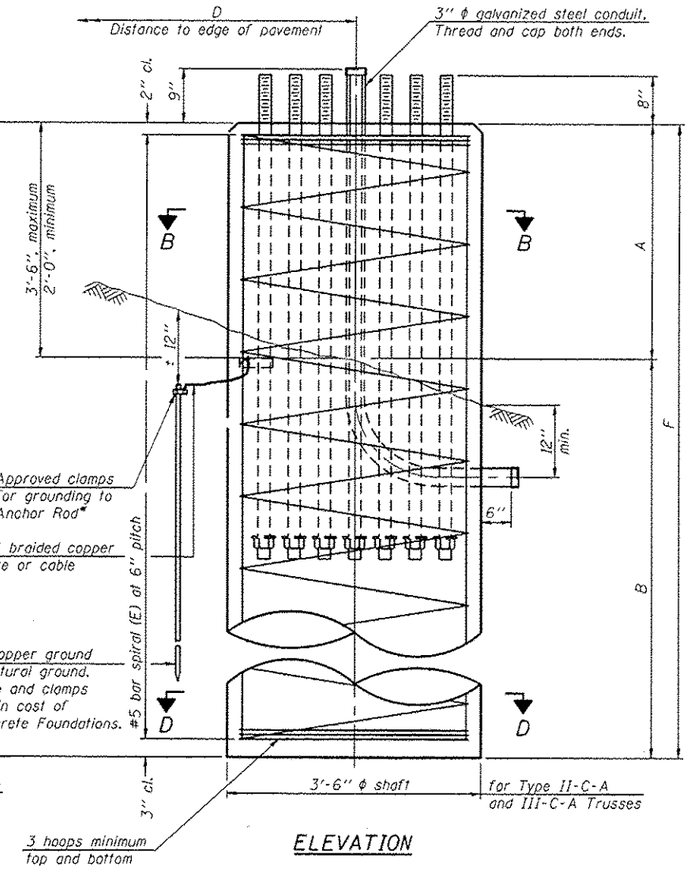
CONTRACT NO. 46337

ILLINOIS | FED. AID PROJECT

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



ELEVATION



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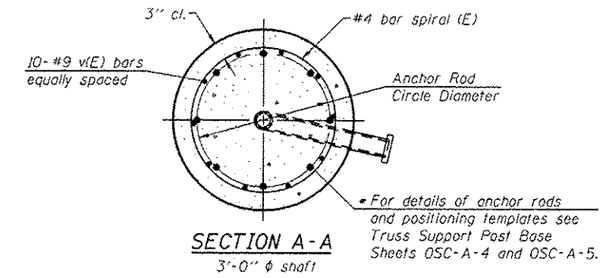
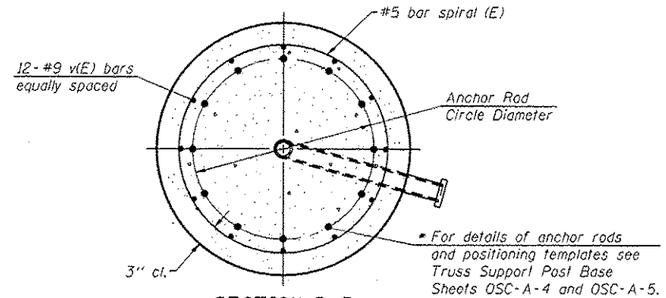
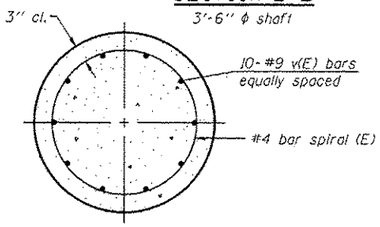


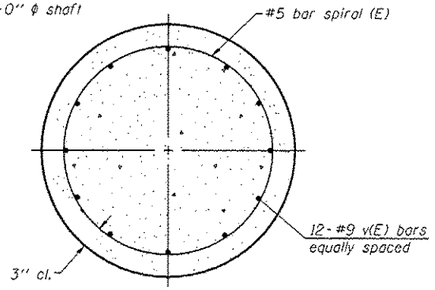
SECTION A-A
3'-0" ϕ shaft



SECTION B-B
3'-6" ϕ shaft



SECTION C-C
3'-0" ϕ shaft



SECTION D-D
3'-6" ϕ shaft

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 job site. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown in the Foundation Data Table will be the result of site specific designs.

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

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

Concrete shall be placed monolithically, without construction joints.

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

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

(1) Survey elevations and distances are not available for this location. The contractor is responsible to obtain survey elevations and cantilever length and then determine the vertical dimensions and elevations for the steel post support, and the exact cantilever length.

(2) Due to the soil boring encountering and obstruction, assumed soil parameters were assumed in the shaft design. The soil inspector shall verify that the layer consists of granular soils or if cohesive the average unconfined compressive strength is above 0.85 tsf.

FOUNDATION DESIGN TABLE

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

FOUNDATION DATA TABLE

Structure Number	Location	Truss Type	Shaft Diameter	Elevation Top	Elevation Bottom	Qu	A	B	F	Class DS Concrete Cubic Yards
IC016L000R000.0-003	19	I-C-A	3'-0"	(1)	(1)		3'-0"	16'-0"	19'-0"	5.0
IC016L000R000.0-005	20	I-C-A	3'-0"	(1)	(1)		2'-0"	16'-0"	18'-0"	4.7
IC016L000L000.0-001	21	I-C-A	3'-0"	(1)	(1)		3'-0"	16'-0"	19'-0"	5.0
IC016L000L000.0-002 (2)	22	I-C-A	3'-0"	(1)	(1)		3'-0"	21'-6"	24'-6"	6.4
IC016L000L000.0-003	23	I-C-A	3'-0"	(1)	(1)		3'-0"	16'-0"	19'-0"	5.0
IC016L000L000.0-005	24	I-C-A	3'-0"	(1)	(1)		2'-0"	17'-0"	19'-0"	5.0
IC016L000L000.0-000	25	I-C-A	3'-0"	(1)	(1)		3'-0"	16'-0"	19'-0"	5.0

OSC-A-9 8-21-13

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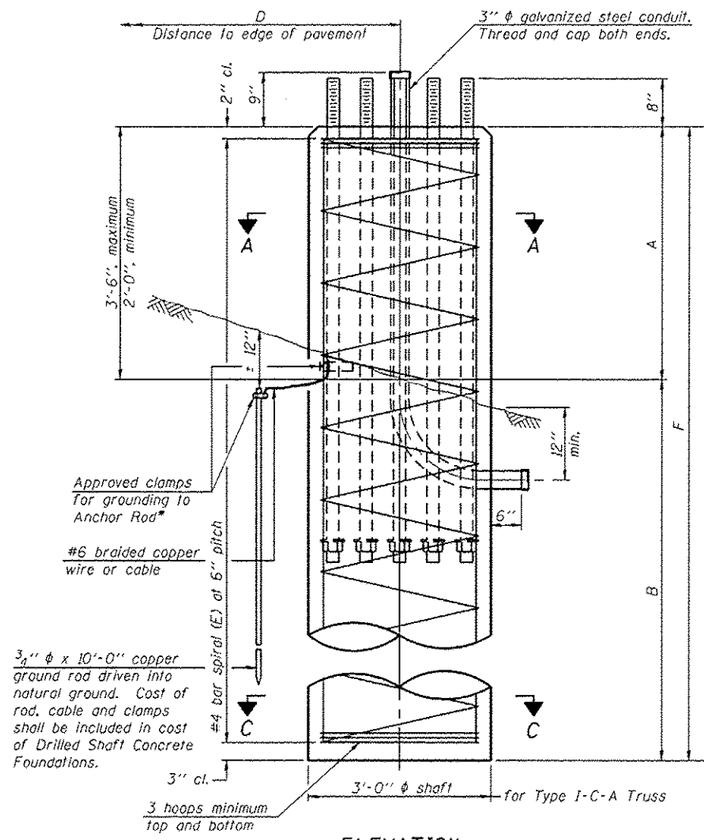
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

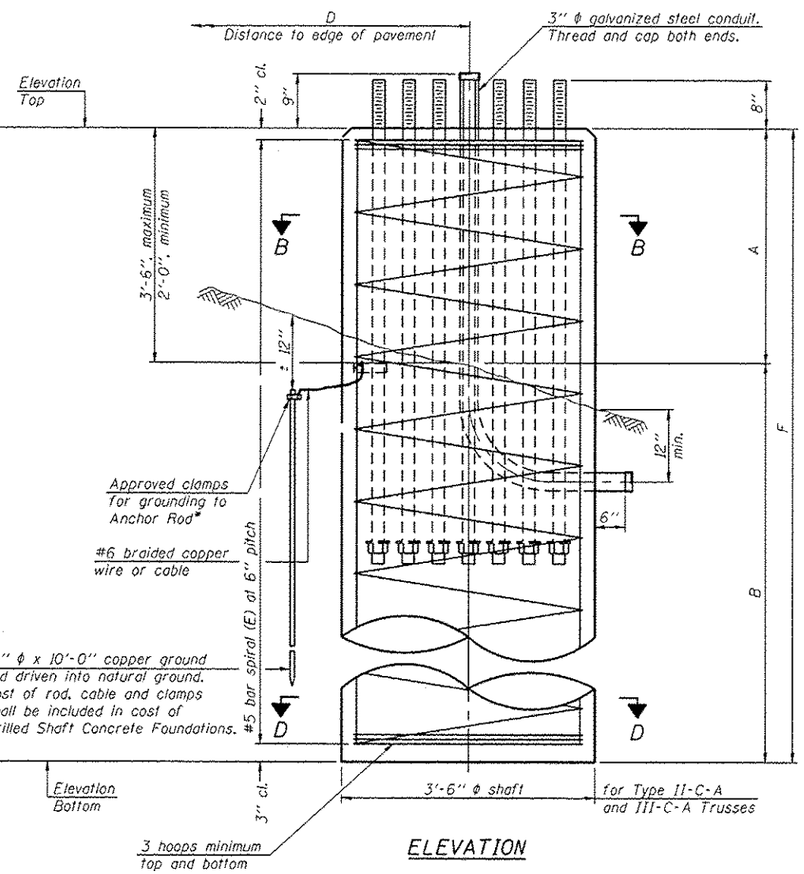
CANTILEVER SIGN STRUCTURES – DRILLED SHAFT
ALUMINUM TRUSS & STEEL POST (2 OF 3)
SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D1 OVH SIN STR REPL 15-10	VARIOUS	94	32
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			

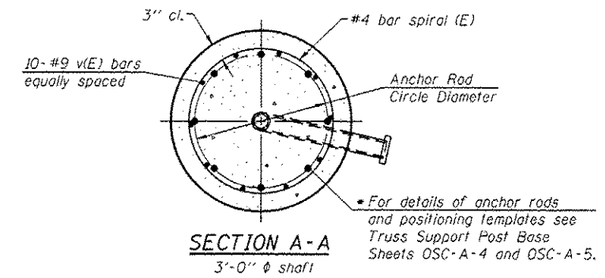
* Grind anchor rod to bright finish at ground clamp location before installing clamp.



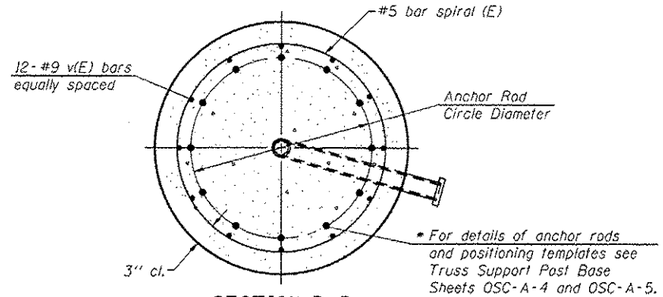
ELEVATION



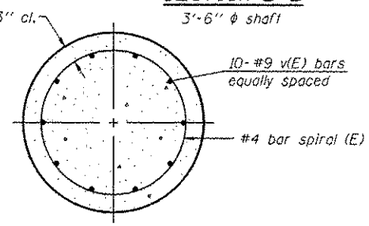
ELEVATION



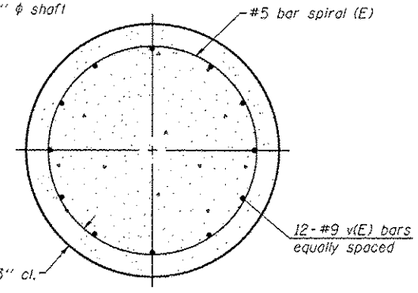
SECTION A-A
3'-0" ϕ shaft



SECTION B-B
3'-6" ϕ shaft



SECTION C-C
3'-0" ϕ shaft



SECTION D-D
3'-6" ϕ shaft

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 Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in "Drilled Shaft Concrete Foundation".

(1) Survey elevations and distances are not available for this location. The contractor is responsible to obtain survey elevations and cantilever length and then determine the vertical dimensions and elevations for the steel post support, and the exact cantilever length.

FOUNDATION DESIGN TABLE

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

FOUNDATION DATA TABLE

Structure Number	Location	Truss Type	Shaft Diameter	Elevation Top	Elevation Bottom	Qu	A	B	F	Class DS Concrete Cubic Yards
1C016L000L000.0-004	26	I-C-A	3'-0"	(1)	(1)		3'-0"	16'-0"	19'-0"	5.0
1C016L000R000.0-004	27	I-C-A	3'-0"	(1)	(1)		3'-0"	16'-0"	19'-0"	5.0

OSC-A-9 8-21-13

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		DRAWN - LP	REVISED -
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Default	PLOT DATE = 4/28/2015	DATE - 02/06/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES – DRILLED SHAFT
ALUMINUM TRUSS & STEEL POST (3 OF 3)

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D1 OVH SIN STR REPL 15-10	VARIOUS	94	33
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			

INDEX OF SHEETS – STRUCTURE NUMBER 1S022I055R276.1

CIVIL

SHEET NO.	IDOT STANDARD	DESCRIPTION
C1		INDEX OF SHEETS & SCHEDULE OF QUANTITIES
C2		SUGGESTED TRAFFIC CONTROL PLAN
C3		ROADWAY PLAN DETAIL

STRUCTURAL

SHEET NO.	IDOT STANDARD	DESCRIPTION
S1	~~OS-A-1~~	OVERHEAD SIGN STRUCTURES - GENERAL PLAN & ELEVATION - ALUMINUM TRUSS & STEEL SUPPORTS
S2	~~OS-A-2~~	OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS DETAILS FOR TRUSS TYPE III-A
S3	~~OS-A-2~~	OVERHEAD SIGN STRUCTURES - CANTILEVER ALUMINUM TRUSS MEMBER DETAILS FOR TRUSS TYPE III-A
S4	~~OS4-A-2~~	OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS DETAILS FOR TRUSS TYPE III-A
S5	~~OS-A-D~~	OVERHEAD SIGN STRUCTURE DAMPING DEVICE
S6	~~OS4-A-Bc~~	OVERHEAD SIGN STRUCTURES - SUPPORT FRAME FOR TYPE III-A ALUMINUM TRUSS
S7	~~OS4-A-BcA~~	OVERHEAD SIGN STRUCTURES SUPPORT FRAME FOR TYPE III-A ALUMINUM TRUSS
S8	OS4-F4	OVERHEAD SIGN STRUCTURES DRILLED SHAFT DETAILS
S9	OS4-MED	OVERHEAD SIGN STRUCTURES MEDIAN SUPPORT FOUNDATION DETAILS
S10	OS-A-9S	OVERHEAD SIGN STRUCTURES ALTERNATE WALKWAY DETAILS
S11	OS-A-10	OVERHEAD SIGN STRUCTURES ALUMINUM WALKWAY DETAILS
S12		BORING LOG

NOTE

A LINE DRAWN THRU THE LISTED IDOT STANDARD DRAWING INDICATES THAT PORTIONS OF THE STANDARD HAVE BEEN MODIFIED FOR THIS NON-STANDARD TRUSS

SCHEDULE OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	SN-029 1S0221055R276.1-000
25000210	SEEDING, CLASS 2A	ACRE	0.1	0.1
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	9	9
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	9	9
25100630	EROSION CONTROL BLANKET	SQ YD	216	216
28000305	TEMPORARY DITCH CHECKS	FOOT	2	2
28000400	PERIMETER EROSION BARRIER	FOOT	269	269
28000510	INLET FILTERS	EACH	4	4
44001980	CONCRETE BARRIER REMOVAL	FOOT	78	78
50102400	CONCRETE REMOVAL	CU YD	9.0	9.0
58700300	CONCRETE SEALER	SQ FT	858	858
63700255	CONCRETE BARRIER, DOUBLE FACE, 32 INCH HEIGHT	FOOT	76.8	76.8
64300450	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2
70400100	TEMPORARY CONCRETE BARRIER	FOOT	600	600
73300300	OVERHEAD SIGN STRUCTURE - SPAN, TYPE III-A (5'-0" X 7'-0") •	FOOT	112.0	112.0
73400200	DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	46	46
~~X2800315~~	~~REMOVE INLET FILTERS~~	~~EACH~~	~~4~~	~~4~~

• SEE SHEET S1, NOTE 2

STATE OF ILLINOIS – MOUSSA A. ISSA – 081-005738 – CHICAGO, ILLINOIS – LICENSED STRUCTURAL ENGINEER

Signed Moussa A. Issa
Dr. Moussa A. Issa, S.E. Il. Lic. No. 081-005738
Expires 11-30-2016
Date 03/12/2015
Apply to Sheets S1 thru S12

STATE OF ILLINOIS – JOSEPH M. GLENNON – 062-046610 – CHICAGO, ILLINOIS – LICENSED PROFESSIONAL ENGINEER

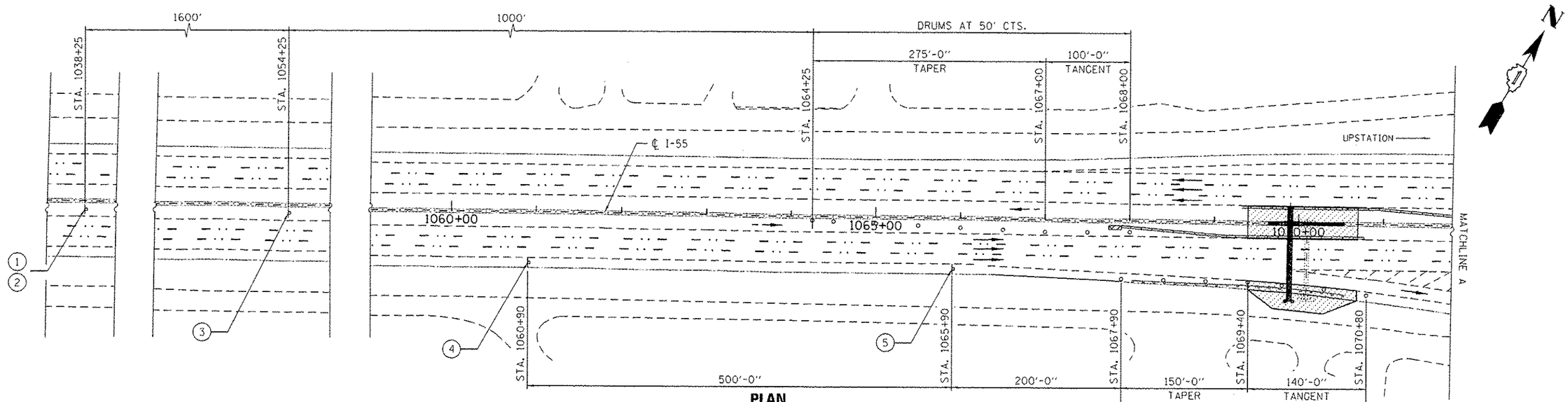
Signed Joseph M Glennon
Joseph M. Glennon, P.E. Il. Lic. No. 062-046610
Expires 11-30-2015
Date 3/12/2015
Apply to Sheets C1 thru C3

HBM ENGINEERING GROUP, LLC – CONSULTING & DESIGN INSPECTION & MATERIAL RESEARCH & TESTING
4415 WEST HARRISON ST., SUITE 231, HILLSIDE, IL 60162
PHONE (708) 236-0900
FAX (708) 236-0901

USER NAME =	DESIGNED - DA	REVISED - MD 04/21/2015	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	CHECKED - JMG	REVISED -	
PLOT SCALE =	DRAWN - KJD, EAH	REVISED -	
PLOT DATE = 3/04/2015	DATE - 02/17/2015	REVISED -	

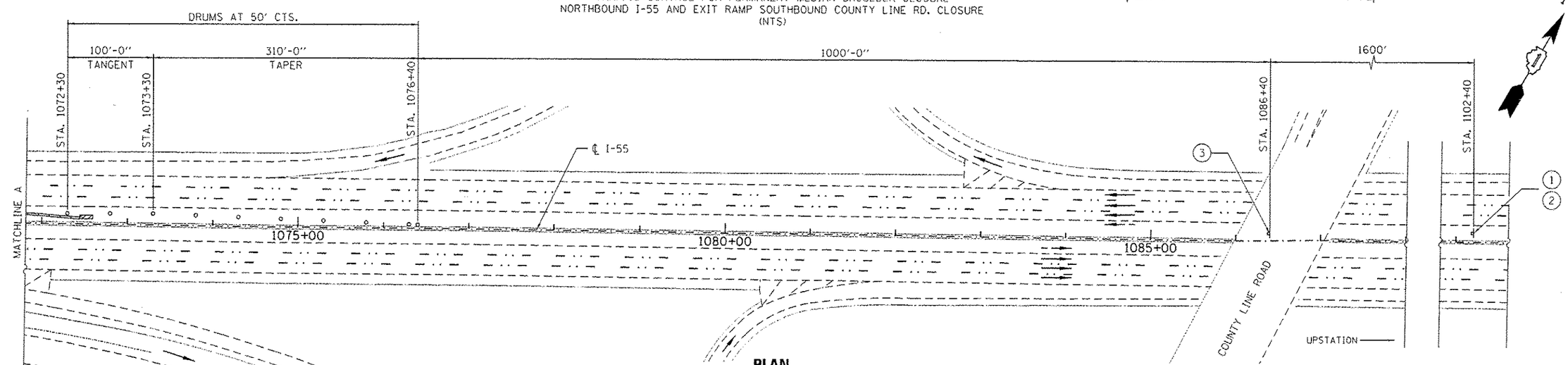
INDEX OF SHEETS & SCHEDULE OF QUANTITIES
SIGN LOCATION 29 – SN-1S0221055R276.1
Sheet No. C1 of C3

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D-1 OVD SIN STR REPL	DUPAGE	94	34
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			



PLAN

TRAFFIC CONTROL FOR PERMANENT MEDIAN SHOULDER CLOSURE
NORTHBOUND I-55 AND EXIT RAMP SOUTHBOUND COUNTY LINE RD. CLOSURE
(NTS)



PLAN

TRAFFIC CONTROL FOR PERMANENT MEDIAN SHOULDER CLOSURE
SOUTHBOUND I-55
(NTS)

LEGEND

- WORK ZONE
- SIGN
- TEMPORARY CONCRETE BARRIER (STD. 704001)
- SHOULDER BUS TRAFFIC
- MAINLINE/RAMP TRAFFIC
- DRUM OR BARRICADE
- IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE). TEST LEVEL 3

NOTES:

1. FOR DETAILS NOT SHOWN SEE DISTRICT 1 STANDARD TC-17
2. PROVIDE TEMPORARY CONCRETE BARRIER (STANDARD 704001) & IMPACT ATTENUATOR IN THE MEDIAN SHOULDER. PROVIDE BARRIER WALL REFLECTORS.
3. CONTRACTOR SHALL CONTACT PACE'S TRANSPORTATION ENGINEER AT (847)228-3584 A MINIMUM OF 10 DAYS PRIOR TO SETTING UP TRAFFIC CONTROL

SIGNS

1. BUS LANE ENDS — SPECIAL
2. ROAD CONSTRUCTION AHEAD — W 20-1(0)-48
3. SHOULDER CLOSED AHEAD
4. RAMP WORK AHEAD
5. RAMP NARROWS — W5-4-48

HBM ENGINEERING GROUP, LLC. CONSULTING & DESIGN INSPECTION & RATING RESEARCH & TESTING
4415 WEST HARRISON ST. SUITE 231 HILLSIDE, IL 60162 PHONE: (708) 236-0900 FAX: (708) 236-0901

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		CHECKED - JMG	REVISED -
PLOT SCALE =		DRAWN - KJD, EAH	REVISED -
PLOT DATE =	3/04/2015	DATE - 2/17/2015	REVISED -

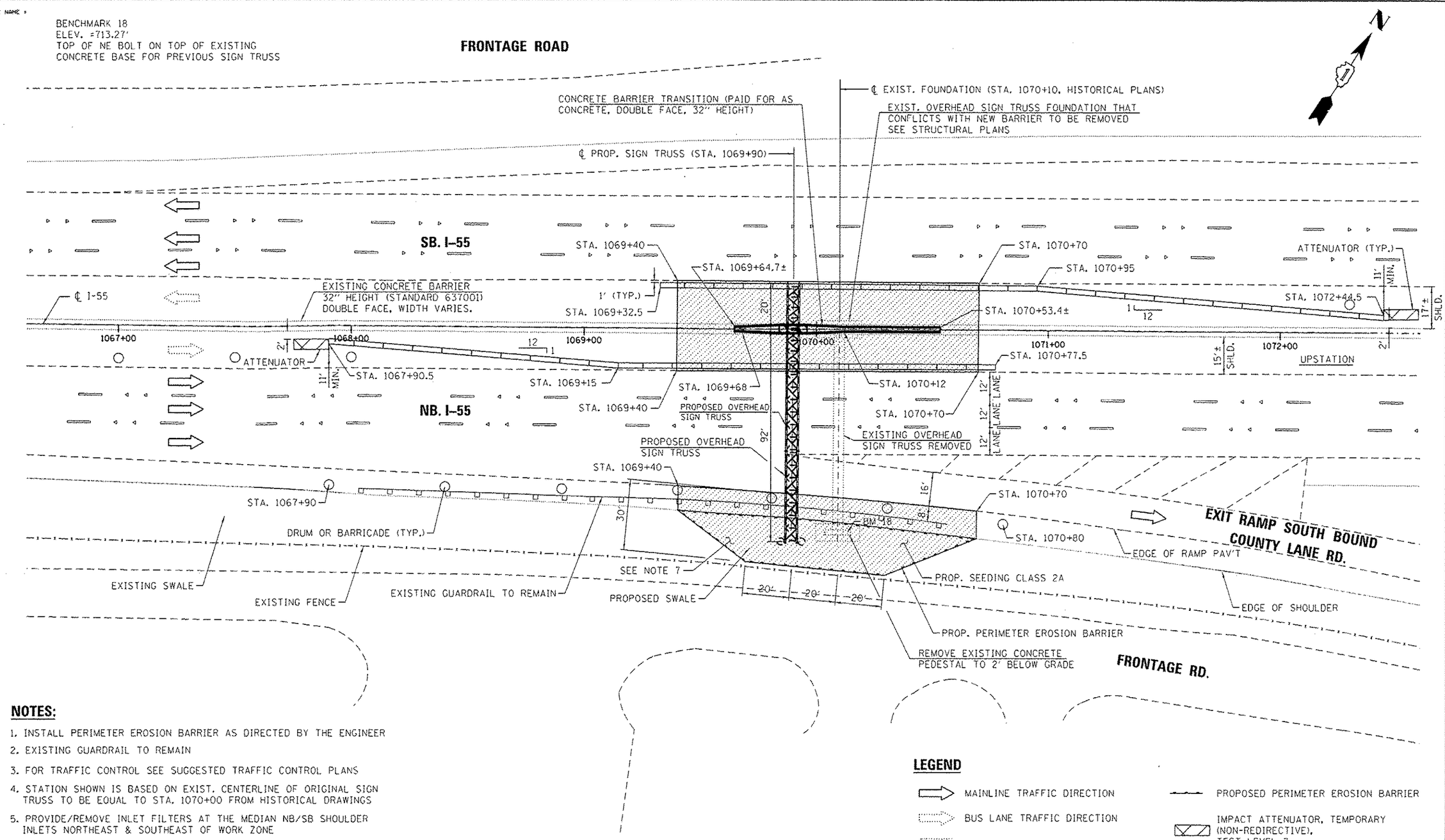
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED TRAFFIC CONTROL PLAN
I-55 FOR SIGN TRUSS STRUCTURE, LOCATION 29; SN: 1S022I055R276.1
Sheet No. C2 of C3

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	0-I OVD SIN STR REPL	DUPAGE	94	35
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			

FILE NAME =

BENCHMARK 18
ELEV. =713.27'
TOP OF NE BOLT ON TOP OF EXISTING
CONCRETE BASE FOR PREVIOUS SIGN TRUSS



NOTES:

1. INSTALL PERIMETER EROSION BARRIER AS DIRECTED BY THE ENGINEER
2. EXISTING GUARDRAIL TO REMAIN
3. FOR TRAFFIC CONTROL SEE SUGGESTED TRAFFIC CONTROL PLANS
4. STATION SHOWN IS BASED ON EXIST. CENTERLINE OF ORIGINAL SIGN TRUSS TO BE EQUAL TO STA. 1070+00 FROM HISTORICAL DRAWINGS
5. PROVIDE/REMOVE INLET FILTERS AT THE MEDIAN NB/SB SHOULDER INLETS NORTHEAST & SOUTHEAST OF WORK ZONE
6. REMOVED OR DAMAGED GUARDRAIL BY THE CONTRACTOR SHALL BE REPLACED IN KIND WITH NO ADDITIONAL COST TO IDOT
7. PROVIDE DITCH CHECKS AS REQUIRED DOWN STREAM OF WORK ZONE

I-55 SIGN STRUCTURE REPLACEMENT

(NTS)

LEGEND

- MAINLINE TRAFFIC DIRECTION
- BUS LANE TRAFFIC DIRECTION
- WORK ZONE
- DRUM OR BARRICADE
- PROPOSED PERIMETER EROSION BARRIER
- IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3
- SIGN

HBM ENGINEERING GROUP, LLC
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HILLSIDE, IL 60162
PHONES (708) 236-0900
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USER NAME =	DESIGNED - DA	REVISED -	
	CHECKED - JMG	REVISED -	
PLOT SCALE =	DRAWN - KJD, EAH	REVISED -	
PLOT DATE = 3/04/2015	DATE - 02/17/2015	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN DETAIL
SIGN STRUCTURE REPLACMENT LOCATION 29 – SN-1S022I055R276.1
Sheet No. C3 of C3

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			

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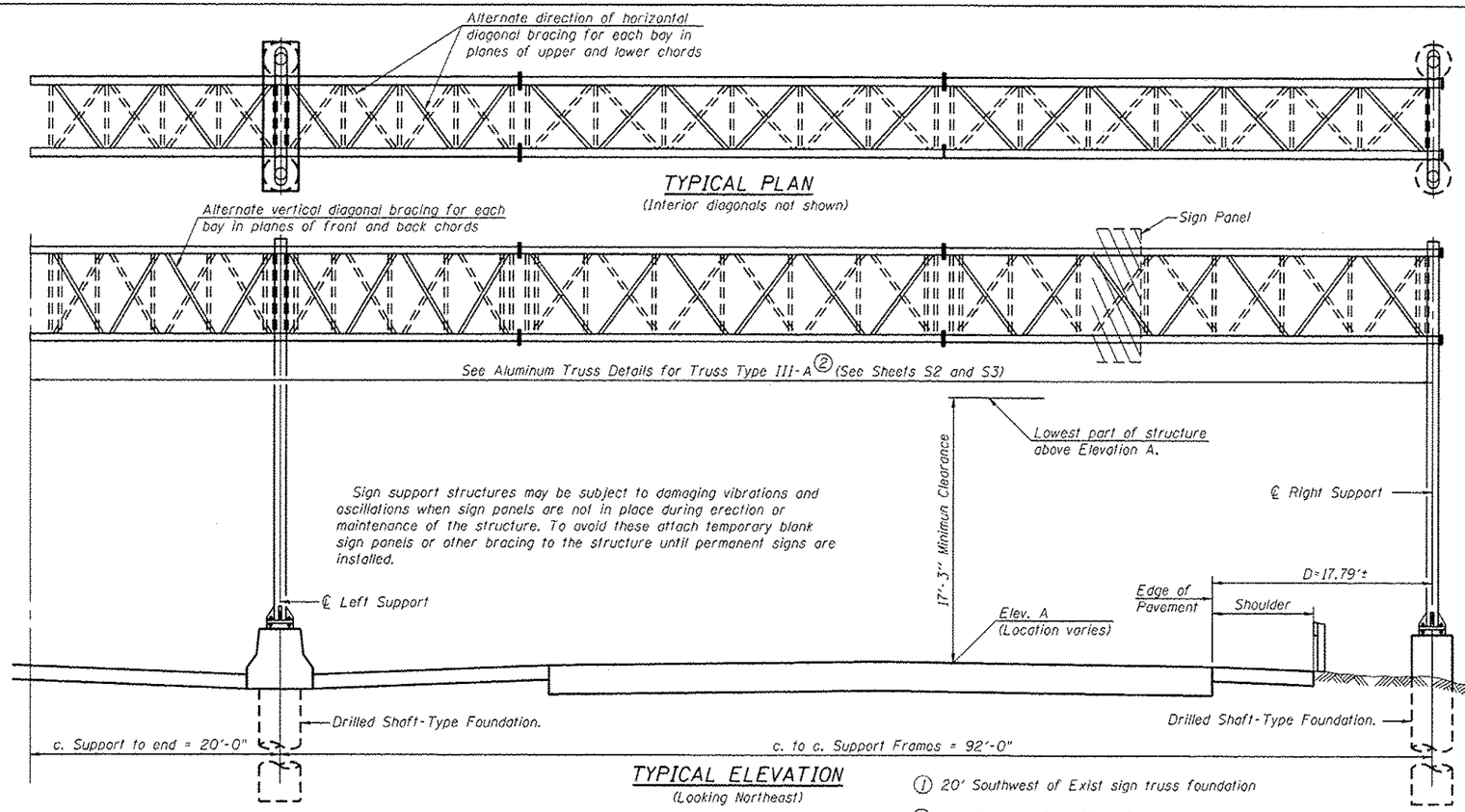


TYPICAL PLAN
(Interior diagonals not shown)

TYPICAL ELEVATION
(Looking Northeast)

Location	Structure Number	Station (1)	Design Truss Type (2)	c. to c. Supports	Elev. A	Dim. D	Height of Tallest Sign	Total Sign Area	c. Support to end
29	1S022I055R276.1	1069+90	III-A	92'-0"	711.93	17.79'±	11'-0"	655.5	20'-0"

Elev. A = Elevation at point of minimum clearance to sign, support or truss. (Nominal 6" added to exist. survey top of pavement for future overlay)

Dead Load: wt. of sign supporting structure.
Ice Load: 3 psf to 1 face of sign & around surface of members
Wind Velocity: 90 mph (3-second gust speed) to sign area & exposed members
Wind Load: 30 psf to sign area & exposed members

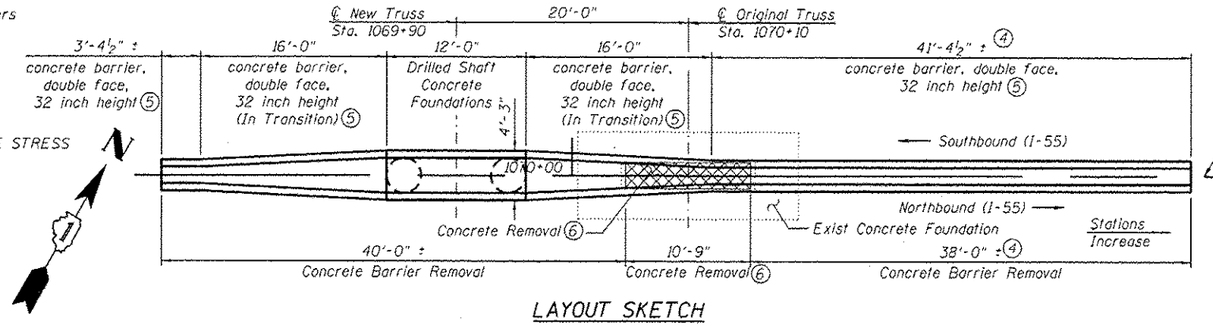
WIND COMPONENTS	NORMAL	TRANSVERSE
COMBINATION 1	1.0	0.2
COMBINATION 2	0.6	0.3

GROUP LOADS	% OF ALLOWABLE STRESS
1. DEAD	100
2. DEAD + WIND	133
3. DEAD + ICE + ½WIND	133

Note: Wind load for group 3 loading shall not be less than 25 psf.

LEGEND

Concrete Removal (6)



LAYOUT SKETCH

(1) 20' Southwest of Exist sign truss foundation

(2) The Standard Type III-A Truss has been modified to meet a simple span Truss with Cantilever. The truss and its support will be paid for as Overhead Sign Structure Span Type III-A per the standard specification - the limits of pay item will be measured from centerline of right support to outside limit of cantilever truss

(3) 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

(4) Upon the Engineer approval extend barrier to nearest joint

(5) Included minimum 8" thick concrete base per standard - Cost included in Concrete Barrier, Double Face, 32 Inch Height

(6) Remove Exist. Concrete to a depth 8" below the top of the existing shoulder

GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, sixth Edition 2013 ("AASHTO Specifications")

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

LOADING: 90 M.P.H. WIND VELOCITY

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

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

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard 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.(3) Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer.
The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

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

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

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

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

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

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

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

BILL OF MATERIAL

ITEM	UNIT	TOTAL
CONCRETE BARRIER REMOVAL	Foot	78
CONCRETE REMOVAL	Cu. Yds.	9.0
CONCRETE SEALER	Sq. Ft.	858
CONCRETE BARRIER, DOUBLE FACE, 32 INCH HEIGHT	Foot	76.8
OVERHEAD SIGN STRUCTURE SPAN TYPE III-A (2)	Foot	112.0
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	46.0

OS A 1 — 8-21-13

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4415 WEST HARRISON ST. SUITE 231 HILLSIDE, IL 60162 PHONE: (708) 236-0900 FAX: (708) 236-0901

USER NAME =	DESIGNED - WM, MA	REVISED -
	CHECKED - JMG, MAI	REVISED -
PLOT SCALE =	DRAWN - KJD	REVISED -
PLOT DATE = 3/04/2015	DATE - 2/17/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES – GENERAL PLAN & ELEVATION – ALUMINUM TRUSS & STEEL SUPPORTS
Sheet No. S1 of S12

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D-1 OVD SIN STR REPL	DUPAGE	94	37
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			

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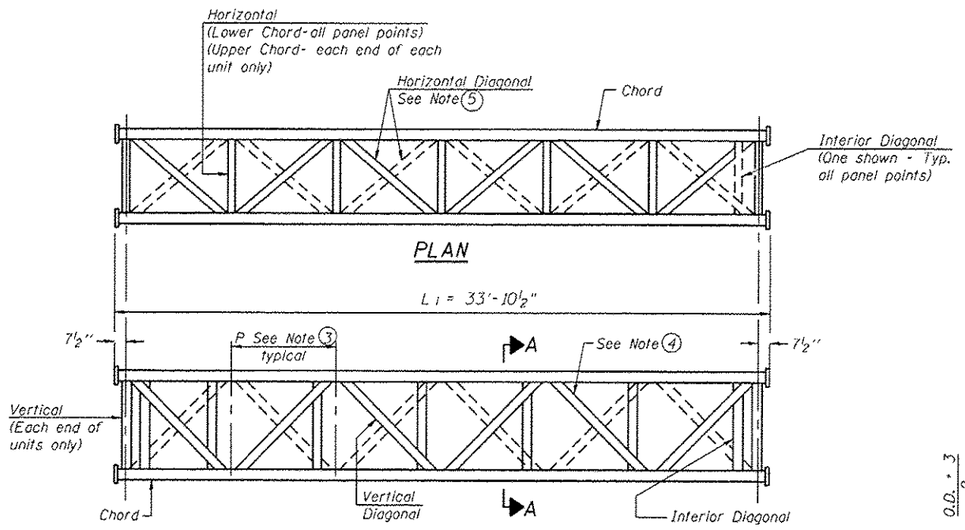
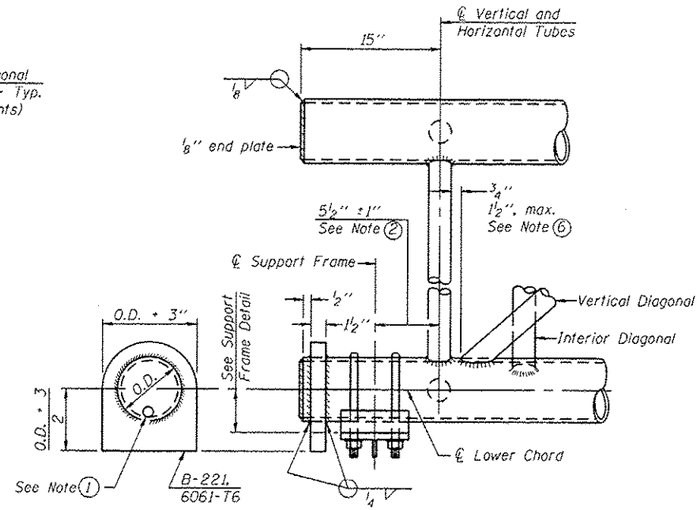
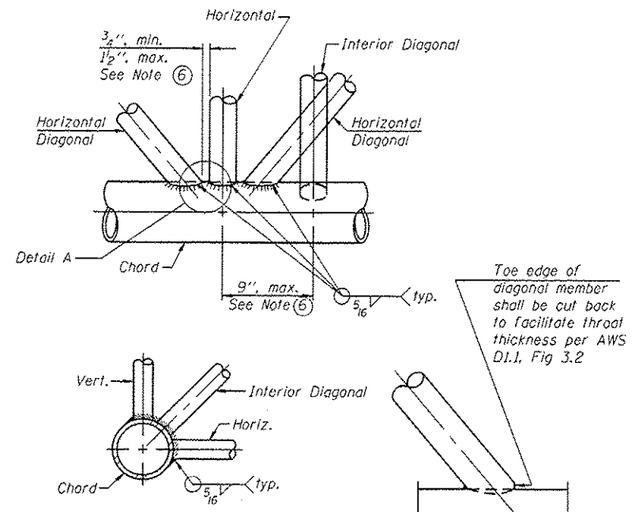


ELEVATION
TYPICAL INTERIOR UNIT

Even number of panels/interior unit required.

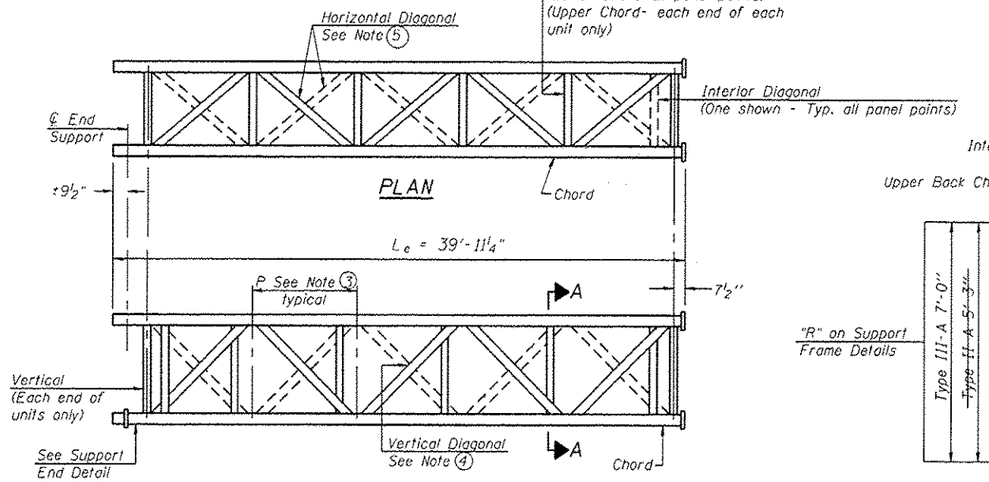


SUPPORT END DETAIL FOR RIGHT EXTERIOR UNIT



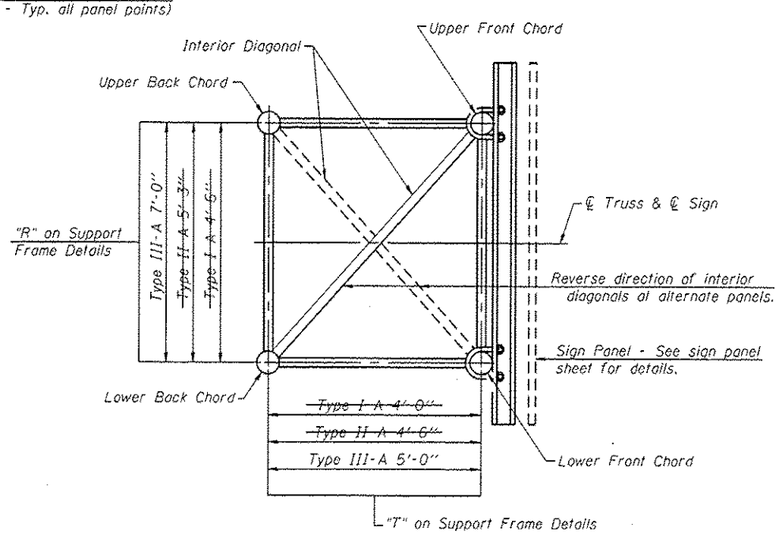
TYPICAL JOINT DETAILS

DETAIL A



ELEVATION
RIGHT EXTERIOR UNIT

Even or odd number of panels/exterior units allowed.



SECTION A-A

(1) Contractor may alternatively use standard aluminum drive-fit cap to close end. ½" ϕ drain hole in end plate/drive-fit cap. (Typ. at ends of all chords)

(2) 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 Type ~~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 ¾" 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.

~~OS-A-2~~ ~~6-1-12~~

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	CHECKED - JMG, MAI	REVISED -
PLOT SCALE =	DRAWN - KJD	REVISED -
PLOT DATE = 3/04/2015	DATE - 2/17/2015	REVISED -

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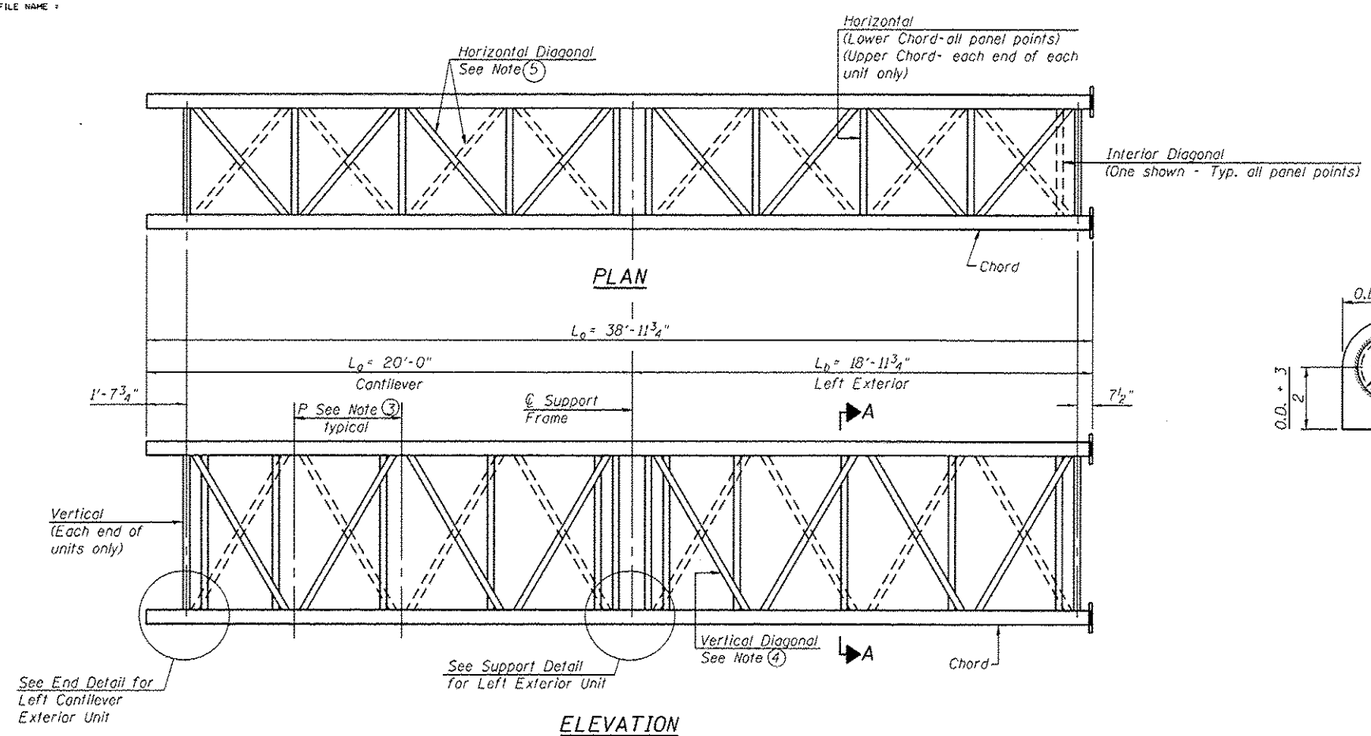
OVERHEAD SIGN STRUCTURES – ALUMINUM TRUSS
DETAILS FOR TRUSS TYPES III-A

Sheet No. 52 of 512

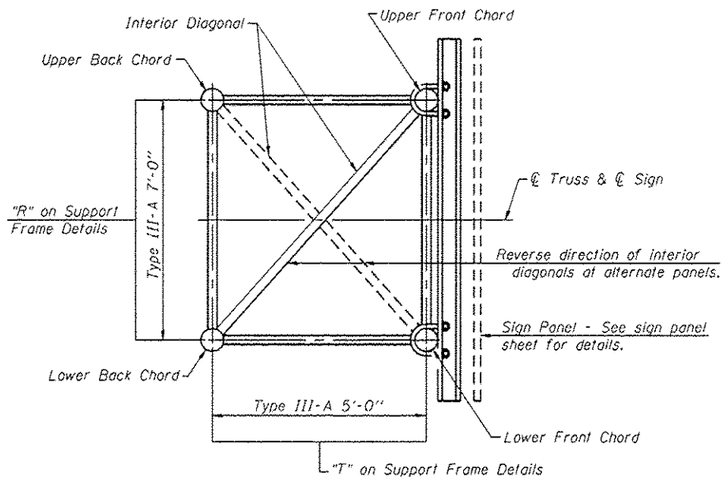
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D-1 OVD SIN STR REPL	DUPAGE	94	38
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			

FILE NAME =

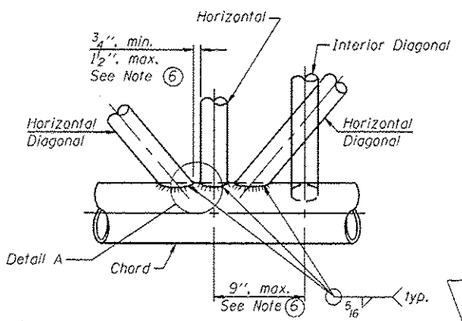


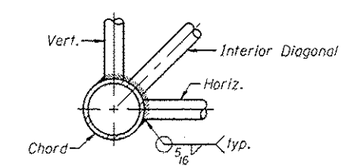
ELEVATION
LEFT EXTERIOR UNIT

Even or odd number of panels/exterior units allowed.

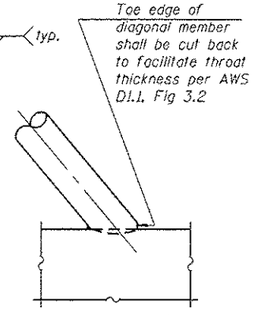


SECTION A-A

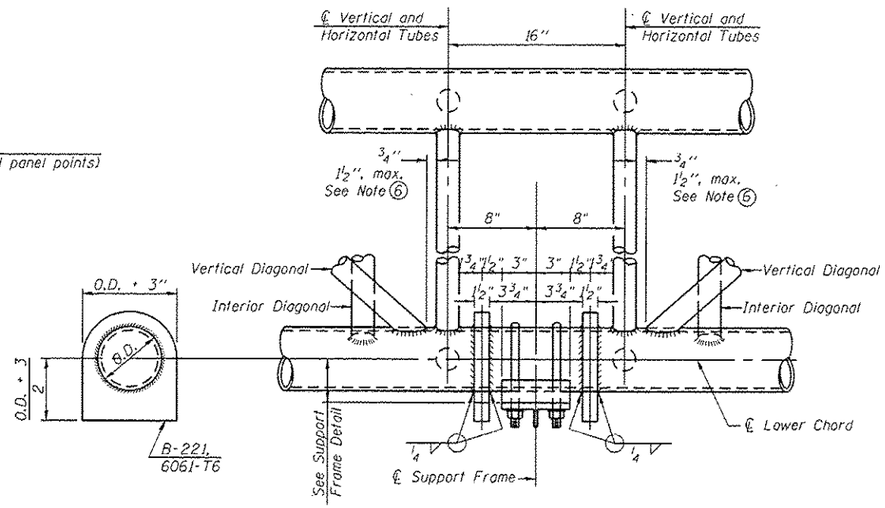




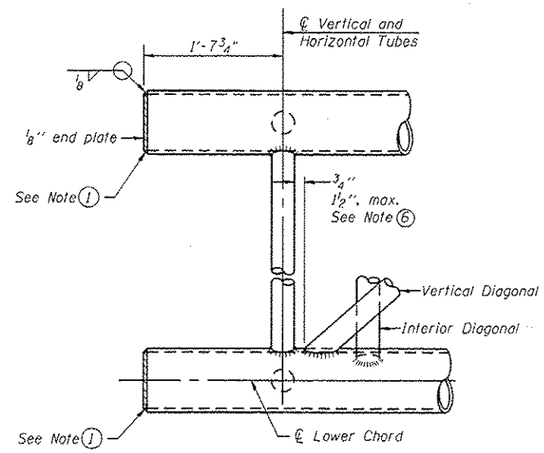
TYPICAL JOINT DETAILS



DETAIL A



SUPPORT DETAIL FOR LEFT EXTERIOR UNIT



END DETAIL FOR LEFT CANTILEVER EXTERIOR UNIT

(1) Contractor may alternatively use standard aluminum drive-fit cap to close end. 1/2" ϕ drain hole in end plate/drive-fit cap. (Typ. at ends of all chords)

Note not used

(2) ~~7 1/2" 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 Type ~~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 3/4" minimum to 1 1/2" maximum clearance between any diagonal and any horizontal or vertical member, and to provide clearance for U-bolt connections of signs or walkway brackets.

~~OS-A-2~~ ~~6-1-12~~

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OVERHEAD SIGN STRUCTURES – CANTILEVER ALUMINUM TRUSS
MEMBER DETAILS FOR TRUSS TYPE III-A

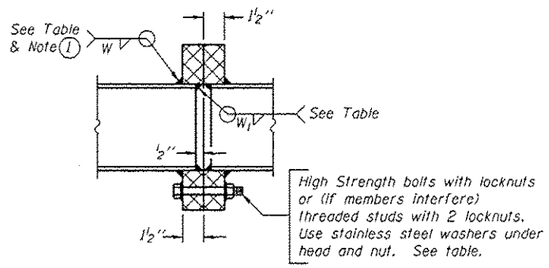
Sheet No. 53 of 512

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D-1 OVD SIN STR REPL	DUPAGE	94	39
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			

FILE NAME =

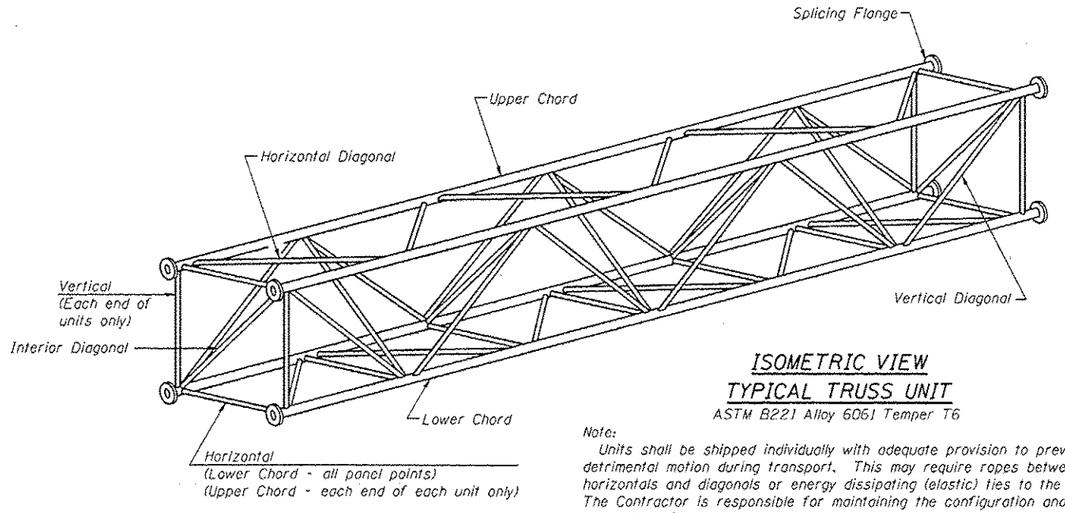
TRUSS UNIT TABLE

Location	Structure Number	Station	Design Truss Type	Right Exterior Unit			Interior Unit				Left Exterior Segment A (Cantilever)			Left Exterior Segment B			Left Exterior Overall Length (L_o)	Upper & Lower Chord		Verticals: Horizontals: Vertical, Horizontal, and Interior Diagonals		Camber at Midspan (See Camber Diagram)	Splicing Flange					
				No. Panels per Unit	Unit Lgth.(L_o)	Panel Lgth.(P)	No. Req'd.	No. Panels per Unit	Unit Lgth.(L_i)	Panel Lgth.(P)	No. Panels per Unit	Unit Lgth.(L_a)	Panel Lgth.(P)	No. Panels per Unit	Unit Lgth.(L_b)	Panel Lgth.(P)		O.D.	Wall	O.D.	Wall		Bolts		Weld Sizes		A	B
																							No./Splice	Dia.	W	W_1		
29	IS022I055R276.1	1069+90	III-A**	7	39'-11¼"	5'-5¼"	1	6	33'-10½"	5'-5¼"	4	20'-0"	4'-5 16"	4	18'-11¾"	4'-5 16"	38'-11¾"	8½"	½"	3½"	½"		8	1¼"	9/16"	7/16"	13"	16½"



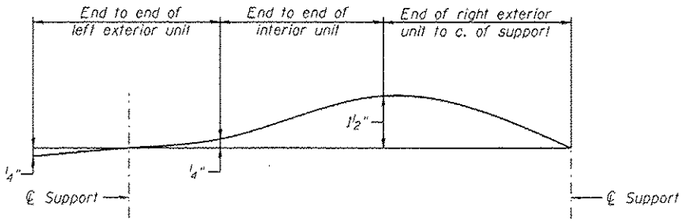
SECTION B-B

(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.



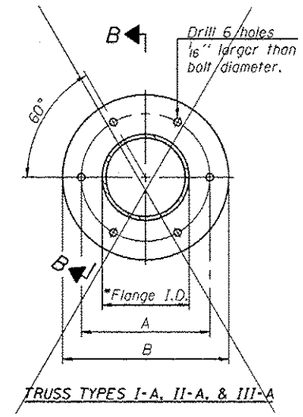
ISOMETRIC VIEW
TYPICAL TRUSS UNIT
ASTM B221 Alloy 6061 Temper T6

Note:
Units 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 units.

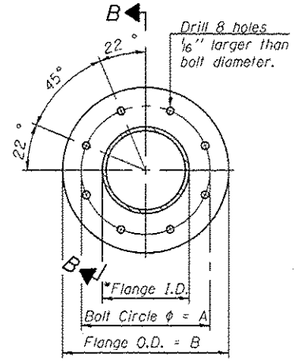


CAMBER DIAGRAM
Camber curve shown is theoretical. Actual camber attained by slope changes at splices between units.

** Truss Type III-A was modified to meet the 92' Simple span with 20' Cantilever.



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



**TRUSS TYPE 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 1/16".

~~OS4-A-2~~ ~~6-1-12~~

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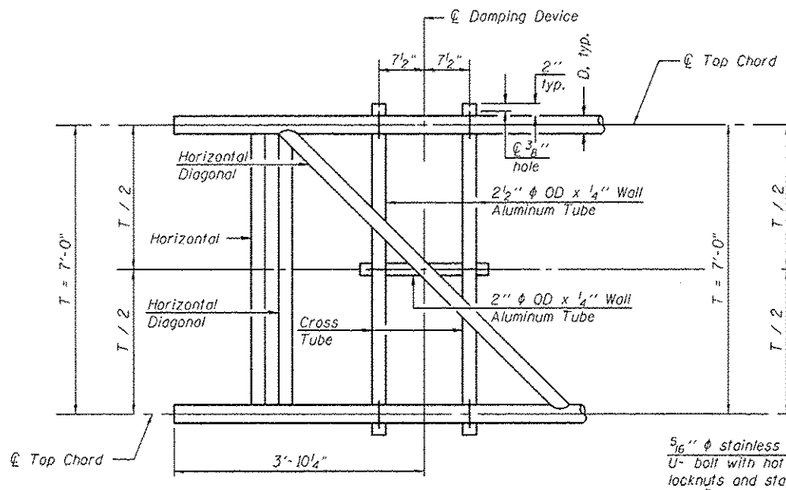
		PLOT SCALE =	DRAWN - KJD	REVISED -	
		PLOT DATE = 3/04/2015	DATE - 2/17/2015	REVISED -	

OVERHEAD SIGN STRUCTURES – ALUMINUM TRUSS DETAILS FOR TRUSS TYPE III-A

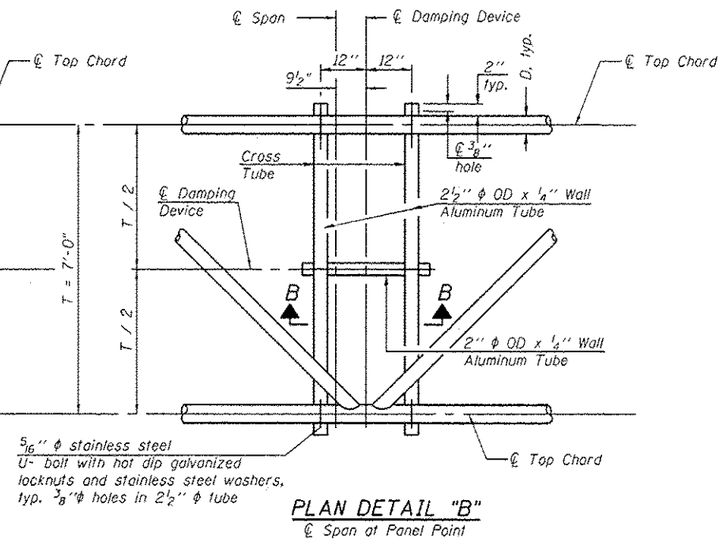
Sheet No. S4 of S12

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D-1 OVD SIN STR REPL	DUPAGE	94	40
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			

FILE NAME =



PLAN DETAIL "A"
℄ Span between Panel Points



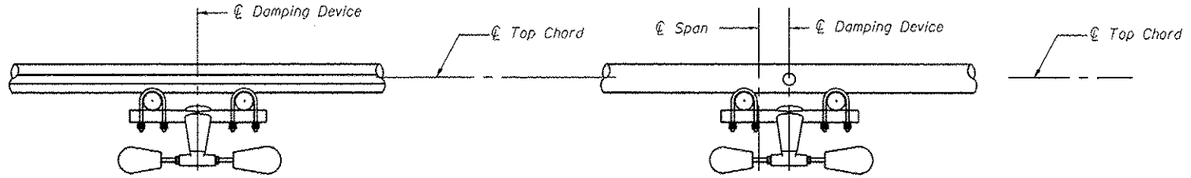
PLAN DETAIL "B"
℄ Span at Panel Point

NOTES

Damper: One damper per truss. (31 lbs. minimum Stockbridge-Type Aluminum - 29" minimum between ends of weights) Cost included in Overhead Sign Structure Span Type III-A.**

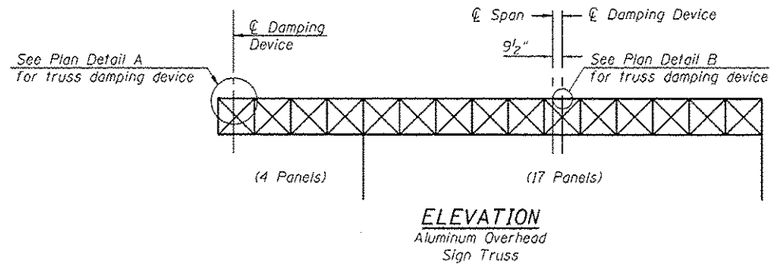
Materials: Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6. Cost included in Overhead Sign Structure Span Type III-A.**

** Type III-A Truss consists of 2 standard segment units, 1 modified segment and 2 modified supports. The truss was modified to meet a simple span Truss with Cantilever.

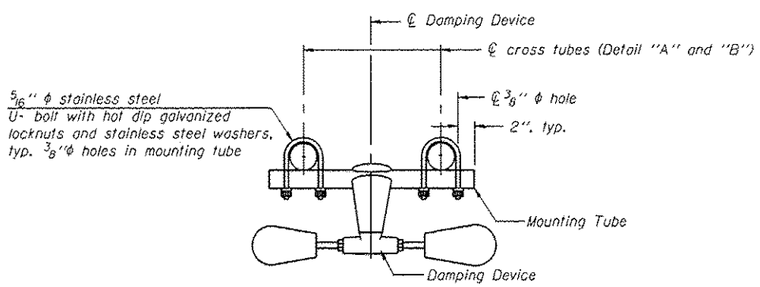


SECTION A-A

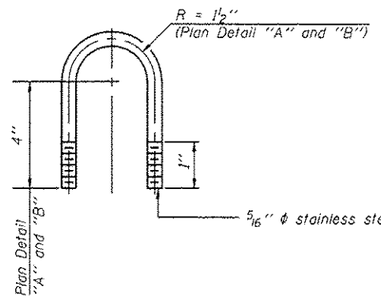
SECTION B-B



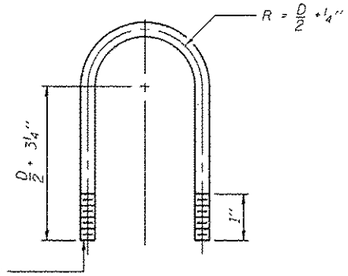
ELEVATION
Aluminum Overhead Sign Truss



TRUSS DAMPING DEVICE CONNECTION DETAIL
(Typical)



DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL
(Typical)



TOP CHORD TO CROSS TUBE U-BOLT DETAIL
(Typical - Detail "A" and "B")

~~OS-A-D~~ ~~6-1-12~~

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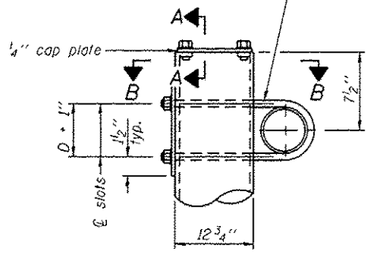
	PLOT DATE = 3/04/2015	DATE - 2/17/2015	REVISED -		

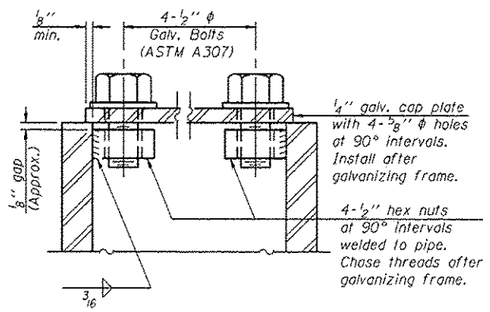
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D-1 OVD SIN STR REPL	DUPAGE	94	41
		CONTRACT NO. 46337		
		ILLINOIS FED. AID PROJECT		

FILE NAME =

1" ϕ stainless steel U-bolt. Provide two washers and two hexagon locknuts. (4) 1 1/16" x 2 1/2" slots on ℄ 12" ϕ pipe. (4 slots required per pipe)

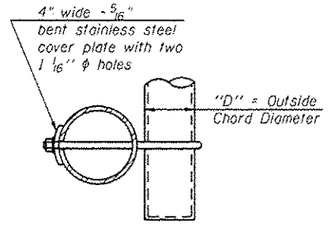


DETAIL A

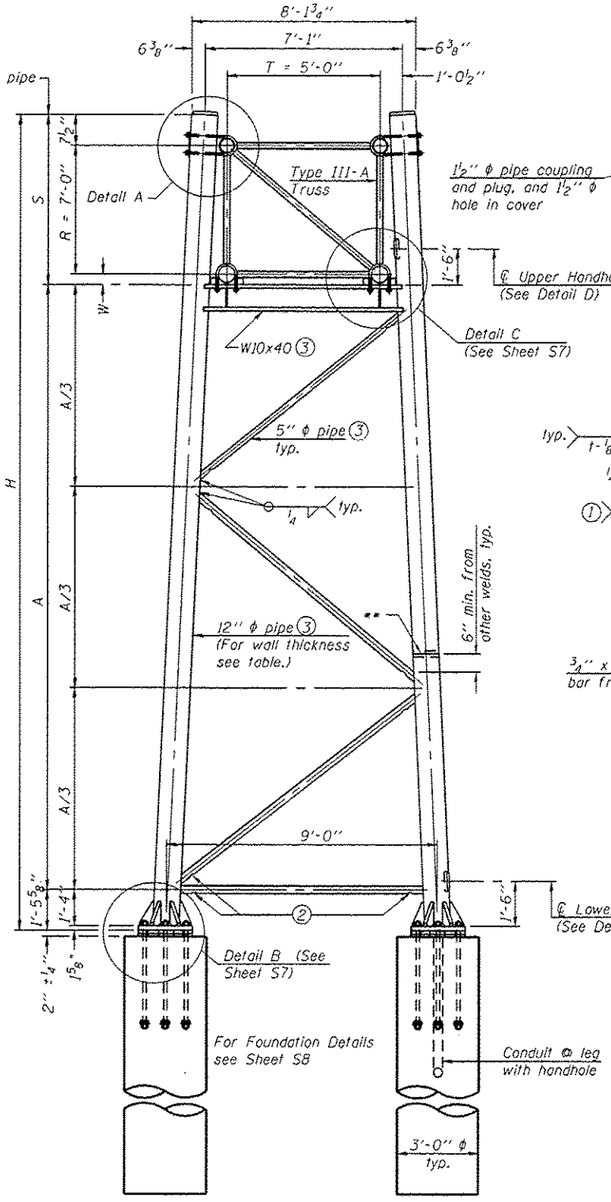


SECTION A-A

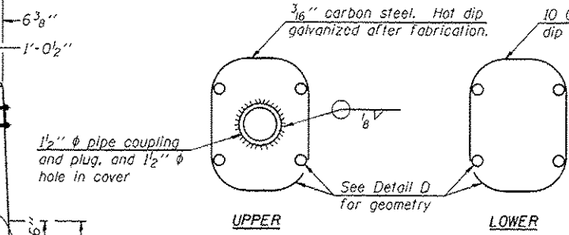
As an alternate to bolts, may use galvanized drive-fit caps installed after galvanizing frame.



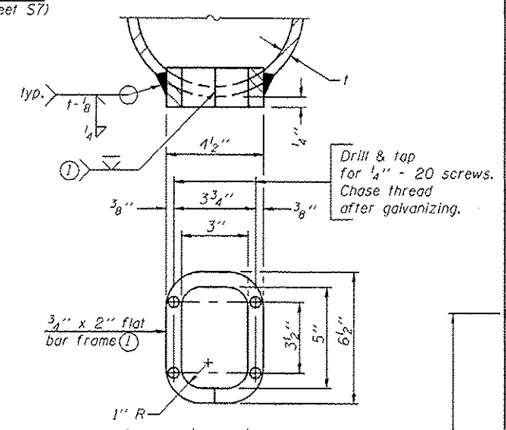
SECTION B-B



SIDE ELEVATION



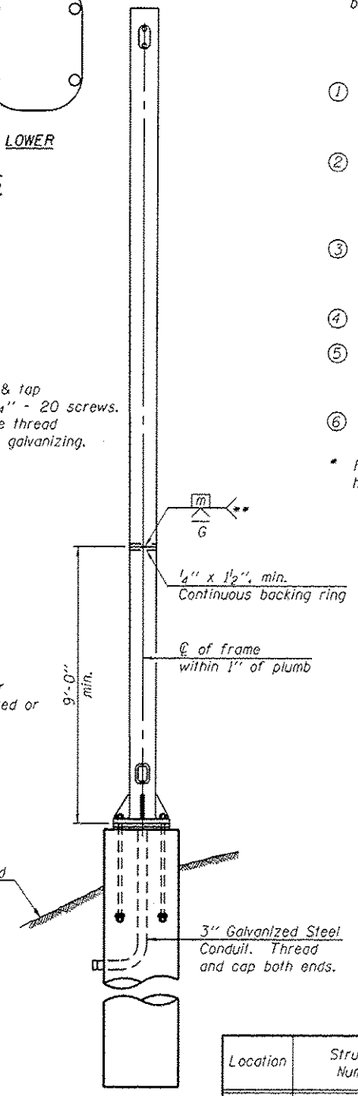
HANDHOLE COVERS



Provide 6 1/2" x 4 1/2" cover.
Provide 4-5/16" ϕ holes in cover for 1/4"-20 round head hot dip galvanized or stainless steel machine screws.
(See cover details)

DETAIL D

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



END ELEVATION

Support Design Loads: See Sheet S1 for design and loading criteria.
Load combinations checked include deadload plus:
a) 100% wind normal to sign, 20% parallel to sign
b) 60% wind normal to sign, 30% parallel to sign

1. In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500 μin or less.
2. Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred, typ.
3. Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Sheet S1.
4. See General Notes for fasteners.
5. Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.
6. "H" based on 15'-0" or actual sign height, whichever is greater.

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

Location	Structure Number	Station	Support		Pipe Wall Thickness	H (6)	A
			Left	Right			
29	IS0221055R276.1	1069+90	X		0.5(XS)	27'-8 1/2"	18'-1 1/2"
29	IS0221055R276.1	1069+90		X	0.5(XS)	29'-0"	19'-5 3/8"

TRUSS SUPPORT DETAILS

(12" ϕ Pipe-Type III-A Truss

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

~~054-A-80~~ ~~6-1-12~~

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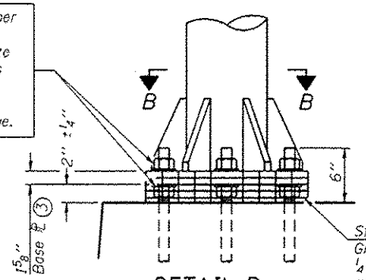
OVERHEAD SIGN STRUCTURES – SUPPORT FRAME FOR TYPE III-A ALUMINUM TRUSS

Sheet No. S6 of S12

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D-1 OVD SIN STR REPL	DUPAGE	94	42
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			

FILE NAME =

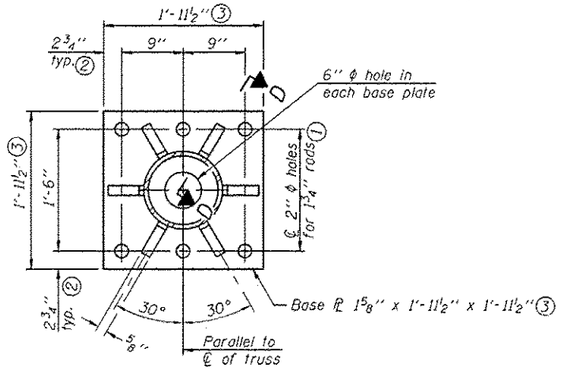
Hexagon locknut and washer (top), leveling nut and washer (bottom). Galvanize per AASHTO M232. Nuts shall each be tightened against base plate with 200 lb.-ft. minimum torque.



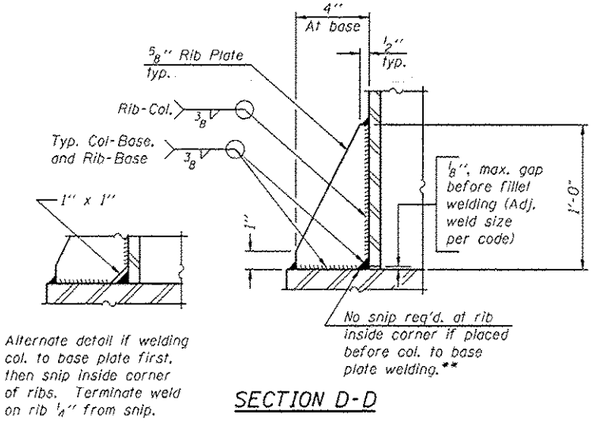
DETAIL B

Ribs shall be cut to fit slope of pipe.

Stainless Steel Standard Grade Wire Cloth, 3" wide, ¼" maximum opening with a minimum wire diameter of AWG. No. 16 with a minimum 2" lap. Secure to base plate after erection with ¾" stainless steel banding.

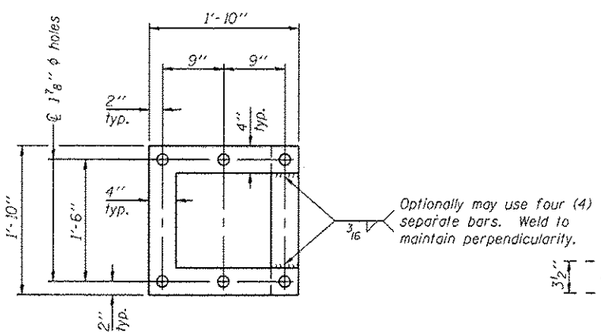


SECTION B-B

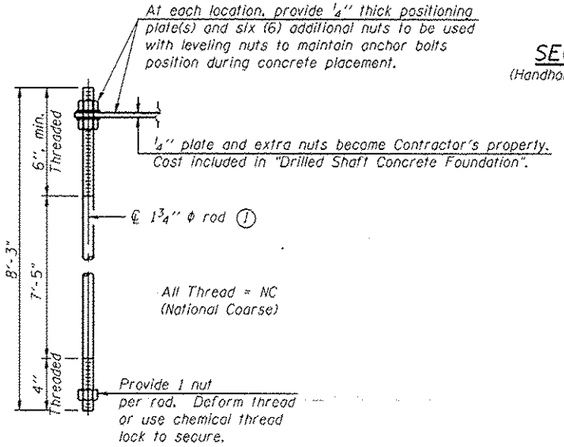


** Alternate detail if welding col. to base plate first, then snip inside corner of ribs. Terminate weld on rib ¼" from snip.

SECTION D-D



POSITIONING PLATE(S)



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" ϕ PIPE SUPPORT FRAME DETAILS~~

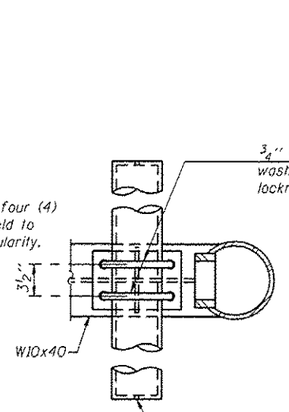
~~Notes:~~

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

① 1¾" ϕ rod, 2" ϕ holes

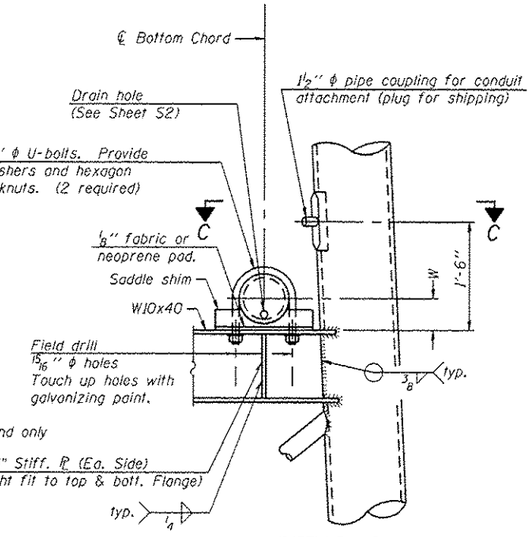
② 2¾" edge distance

③ Base ℄ 1⅝" x 1'-11½" x 1'-11½"

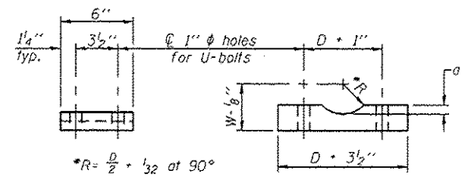


SECTION C-C

(Handhole cover not shown)



DETAIL C



*R = D/2 + 1/32 at 90°

D = Outside Diameter of Chord. For W, see Sheet S6

Truss Chord Nominal Dia.	a
7"	1"
8½"	1¼"
9"	1⅜"

SADDLE SHIM DETAIL

ASTM B26 Alloy 356-F

or

ASTM B209 Alloy 6061-T651

(4 required per sign truss)

~~OS4-A-80A~~ ~~6-1-12~~

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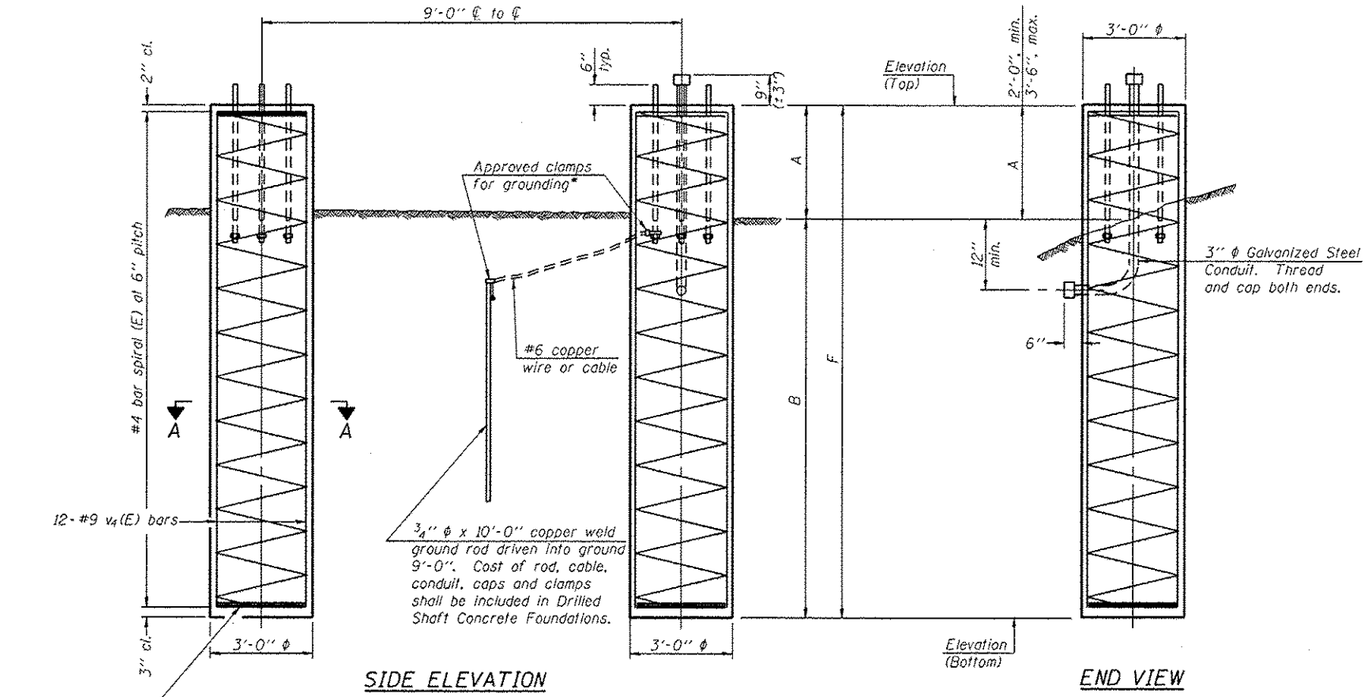
		CHECKED - JMG, MAI	REVISED -
	PLOT SCALE =	DRAWN - KJD	REVISED -
	PLOT DATE = 3/04/2015	DATE - 2/17/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
SUPPORT FRAME FOR TYPE III-A ALUMINUM TRUSS
Sheet No. S7 of S12

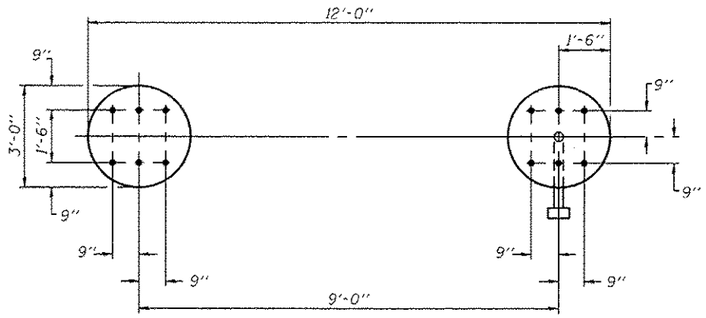
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D-1 OVD SIN STR REPL	DUPAGE	94	43
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			

FILE NAME =



SIDE ELEVATION

END VIEW



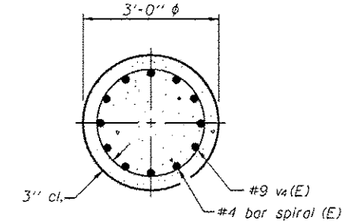
PLAN

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

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

NOTES:

1. 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.
2. 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.
3. No sonotubes or decomposable forms shall be used below the lower conduit entrance.
4. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.
5. Concrete shall be placed monolithically, without construction joints.
6. Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.
7. A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.
8. The proposed sign truss and foundation is replacing an existing sign truss that has been previously removed. From historical drawings the existing truss is located at station 1070+10. Locate new truss 20' south of existing truss - See Layout sketch on General Plan and Elevation.
9. Historical Drawings indicate that the top of the left and right foundation to be the same elevation. At time of design, the existing ground line at the right foundation and top of center median barrier at the left foundation has not been determined at the new sign truss location. Prior to construction or fabrication activities, the contractor shall determine the elevation at the top of median barrier at the new location and the ground line at the right foundation and report these elevation to the Resident Engineer. The top of both the right and left foundation shall be set at top of median barrier elevation. Report to the Resident Engineer if the elevation difference between the top of proposed right foundation and ground line is less than 2' or greater than 3.5' so that the DoR to evaluate the column heights



SECTION A-A

BAR LIST - EACH FOUNDATION

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

DETAILS FOR 12" ϕ SUPPORT FRAME
TYPE III-A TRUSS

Location	Structure Number	Station (See Note 8)	Left Foundation					Right Foundation					Class DS Concrete (Cu. Yds.)
			Elevation Top	Elevation Bottom	A	B	F	Elevation Top	Elevation Bottom	A	B	F	
29	IS0221055R276.1	1069+90	N/A	N/A	N/A	N/A	N/A	711.64	671.64	3'-0 1/4"	36'-11 3/4"	40'-0"	21.0

OS4-F4 8-21-13

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HILLSIDE, IL 60162
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FAX: (708) 236-0901

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		CHECKED - JMG, MAI	REVISED -
PLOT SCALE =		DRAWN - KJD	REVISED -
PLOT DATE =	3/04/2015	DATE - 2/17/2015	REVISED -

STATE OF ILLINOIS
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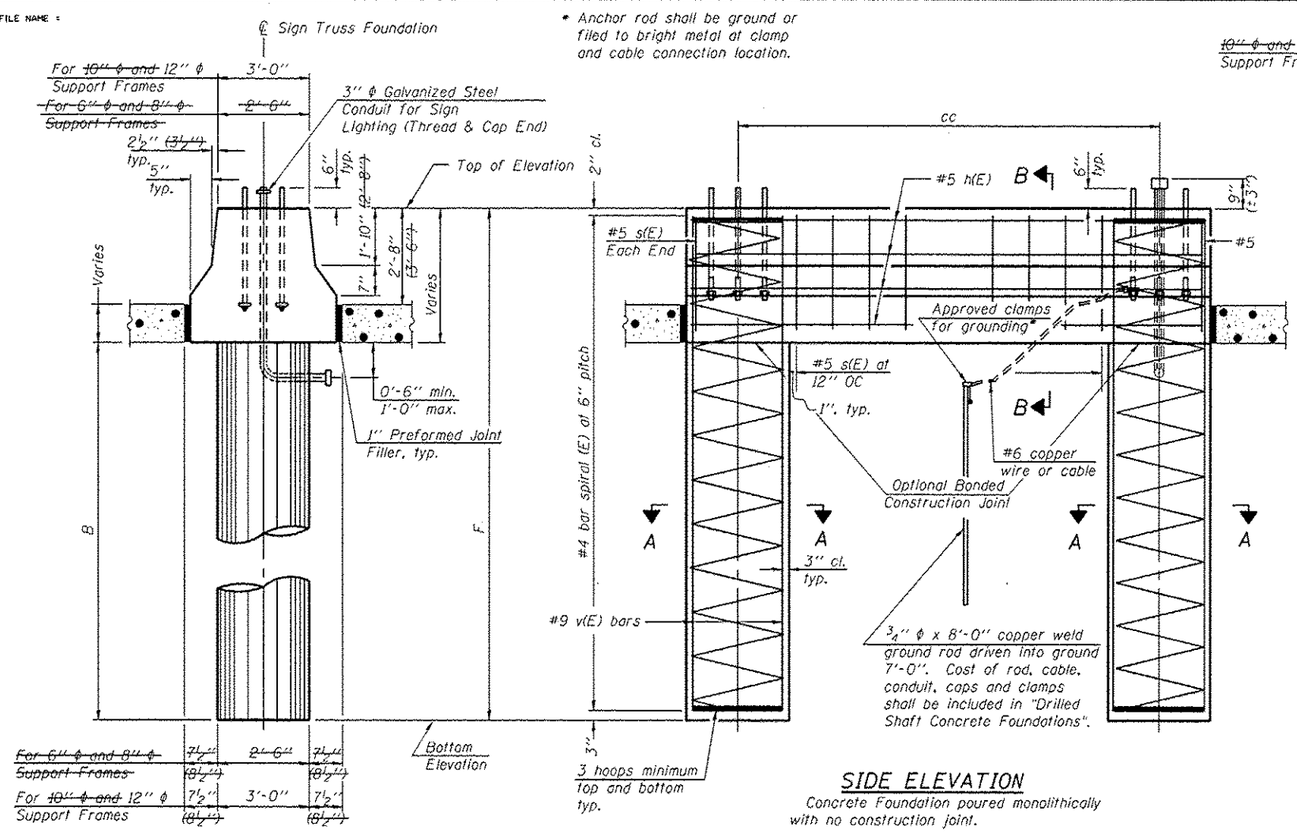
OVERHEAD SIGN STRUCTURES
DRILLED SHAFT DETAILS
Sheet No. 58 of 512

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D-1 OVD SIN STR REPL	DUPAGE	94	44
		CONTRACT NO. 46337		
		ILLINOIS FED. AID PROJECT		

FILE NAME =



NOTES:

1. 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.
2. 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.
3. No sonotubes or decomposable forms shall be used below the lower conduit entrance.
4. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.
5. Concrete shall be placed monolithically, without construction joints.
6. Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.
7. A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.
8. The proposed sign truss and foundation is replacing an existing sign truss that has been previously removed. From historical drawings the existing truss is located at station 1070+10. Locate new truss 20' south of existing truss - See Layout sketch on General Plan and Elevation.

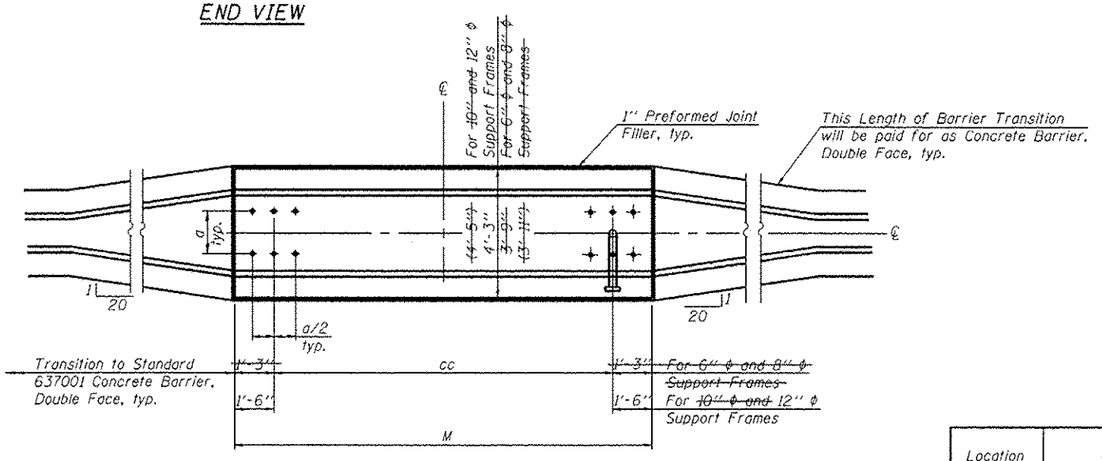
Pipe Support Frames	cc	M	a	a/2
~~6" ϕ~~	~~7'-0"~~	~~9'-6"~~	~~0'-11"~~	~~5½"~~
~~8" ϕ~~	~~7'-6"~~	~~10'-0"~~	~~1'-1½"~~	~~6¾"~~
~~10" ϕ~~	~~8'-3"~~	~~11'-3"~~	~~1'-3"~~	~~7½"~~
12" ϕ	9'-0"	12'-0"	1'-6"	9"

BAR LIST - EACH FOUNDATION

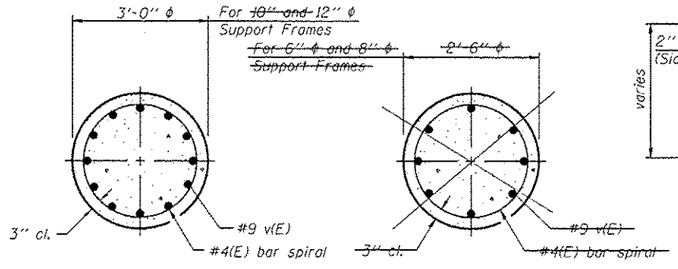
Bar	Number	Size	Length	Shape
h(E)	10	#5	M less 4"	
s(E)	Varies	#5	Varies	
v(E)	16	#9	F less 0'-6"	
v(E)	24	#9	F less 0'-5"	

~~6" ϕ and 8" ϕ~~ Support Frame
~~10" ϕ and~~ 12" ϕ Support Frame

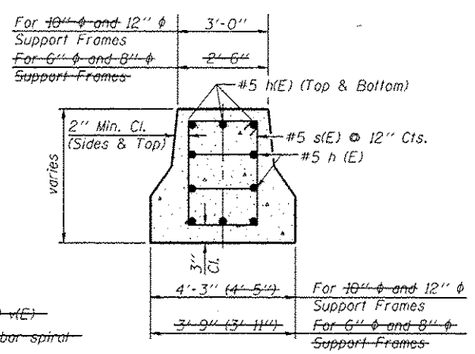
#4(E) bar spiral _ see Side Elevation



~~All dimensions in parenthesis are for 42" high barrier.~~



SECTION A-A



SECTION B-B

Location	Structure Number	Station (See Note 8)	Left Foundation				Right Foundation				Class DS Concrete (Cu. Yds.)
			Elevation Top	Elevation Bottom	B	F	Elevation Top	Elevation Bottom	B	F	
29	IS022I055R276.1	1069+90	712.96	672.96	36'-4"	40'-0"	N/A	N/A	N/A	N/A	25.0

OS4-MED 8-21-13

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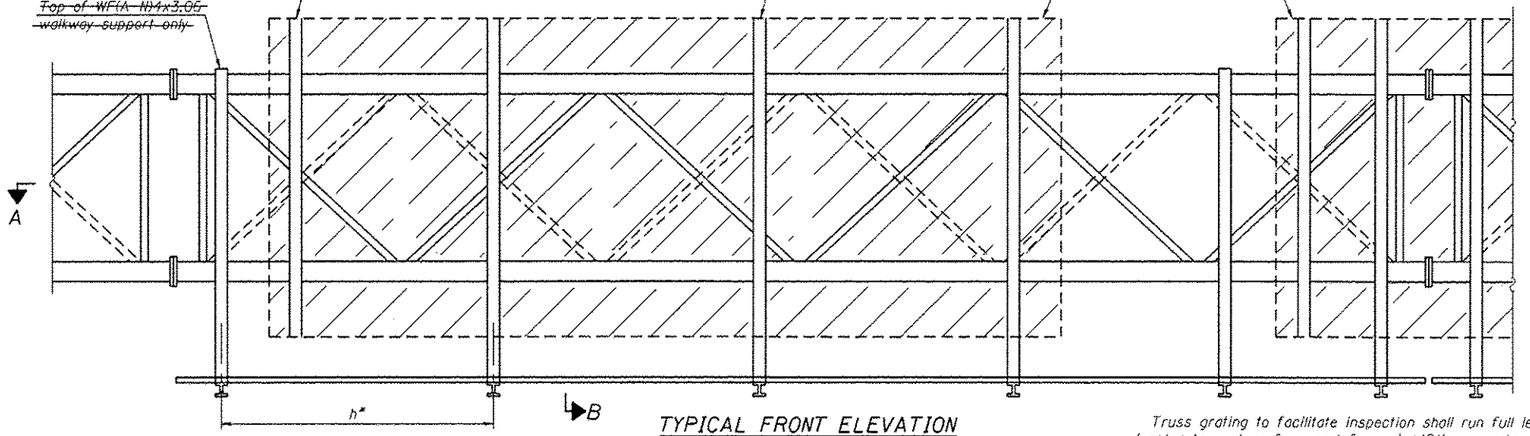
		CHECKED - JMG, MAI	REVISED -
	PLOT SCALE =	DRAWN - KJD	REVISED -
	PLOT DATE = 3/04/2015	DATE - 2/17/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
MEDIAN SUPPORT FOUNDATION DETAILS
Sheet No. 59 of 512

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D-1 OVD SIN STR REPL	DUPAGE	94	45
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			

FILE NAME =

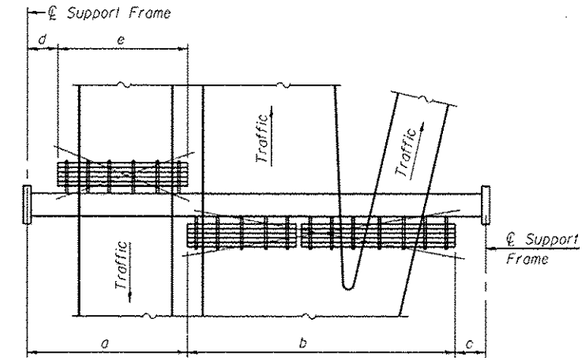


TYPICAL FRONT ELEVATION

~~With lights and handrail omitted for clarity.~~

For Section B-B, see Sheet S11.

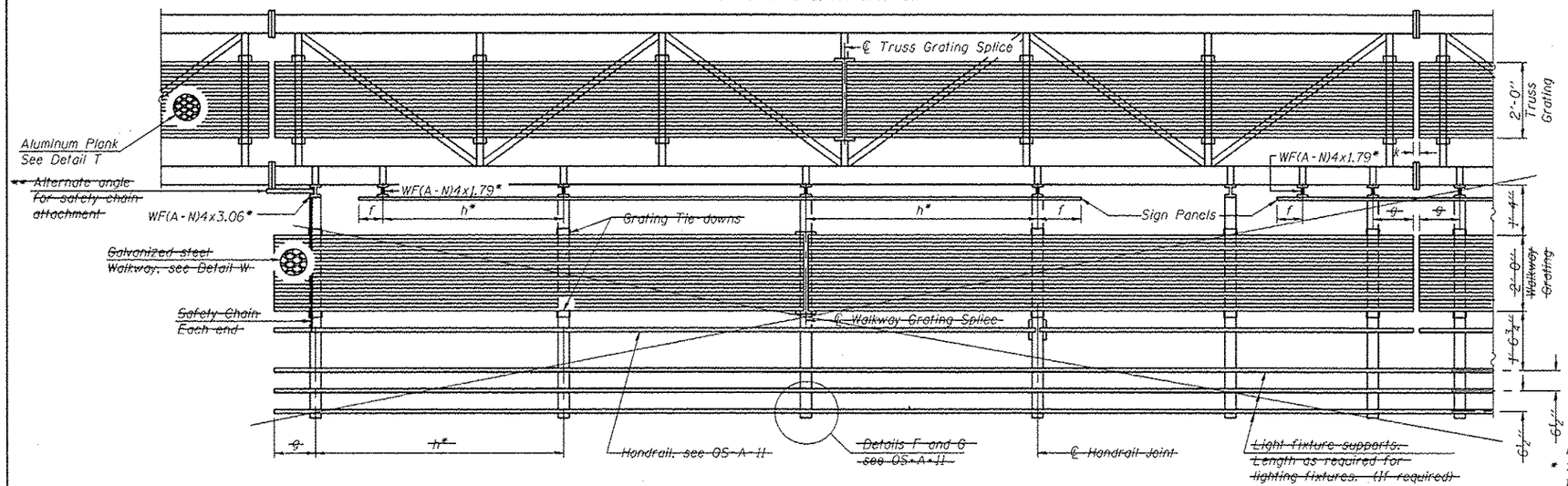
Truss grating to facilitate inspection shall run full length (center to center of support frames) ±12" on overhead trusses. Cost of truss grating is included in "Overhead Sign Structure".



PLAN

~~WALKWAY AND HANDRAIL SKETCH~~

(Road plan beneath truss varies)



SECTION A-A

~~Handrail and walkway shall span a minimum of three brackets between splices and/or gap joints.~~

Place all sign ~~and walkway~~ brackets as close to panel points as practical.

~~Handrail joints,~~ grating, ~~and light support~~ splices placed as needed.

BRACKET TABLE

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

Notes:

* Space ~~walkway brackets WF(A-N)4x3.06 and~~ sign brackets WF(A-N)4x1.79 for efficiency and within limits shown:

f = 12" maximum, 4" minimum (End of sign to ℄ 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, WF(A-N)4x1.79 or WF(A-N)4x3.06)

k = 2" maximum gap between adjacent walkway grating sections and handrail ends

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

For Details T ~~and W~~, Section B-B and Grating Splice Details see Sheet S11.

~~For handrail details see base sheet OS-A-11.~~

Note:

~~Details shown are considered equal alternatives to the Aluminum Walkway on Base Sheet OS-A-9, and may be substituted by Contractor at no change in contract cost.~~

~~Walkway and~~ Truss Grating width dimensions are nominal and may vary ±½" based on available standard widths.

Structure Number	Station	a	b	c	d	e	Walkway Grating and Handrail Lengths
IS022I055R276.1	1069+90	N/A	N/A	N/A	N/A	N/A	N/A

OS-A-9S 6-1-12

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	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE = 3/04/2015	DATE -	REVISED -

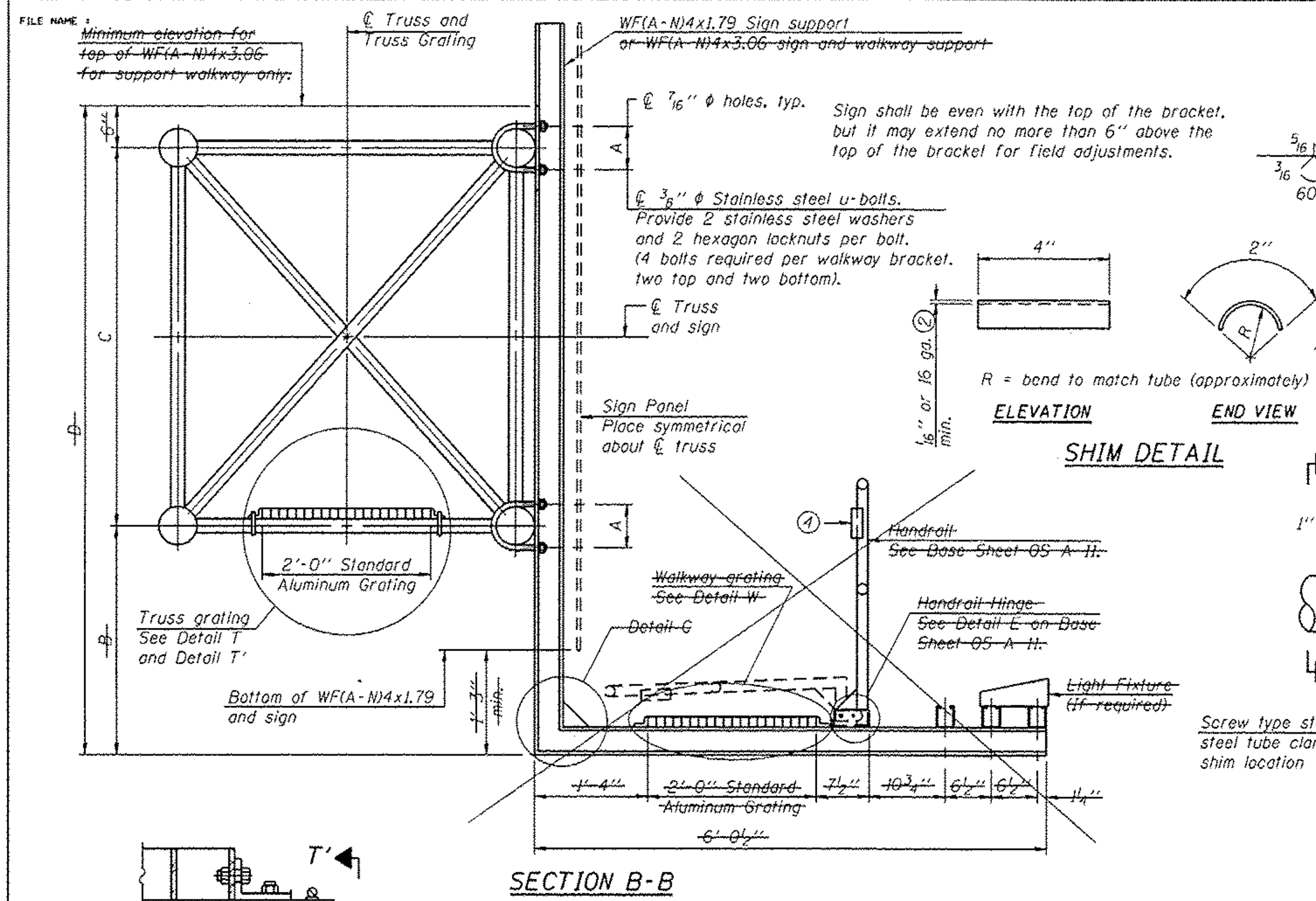
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
ALTERNATE WALKWAY DETAILS

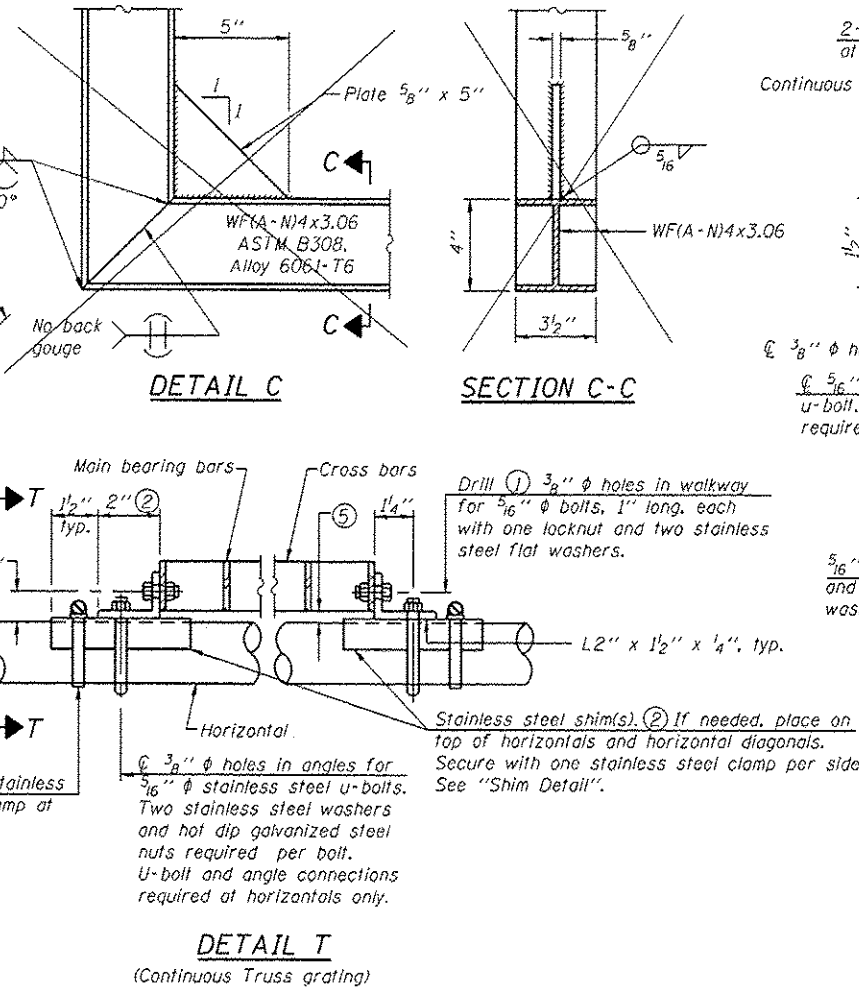
Sheet No. S10 of S12

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D-1 OVD SIN STR REPL	DUPAGE	94	46
		CONTRACT NO. 46337		
		ILLINOIS FED. AID PROJECT		

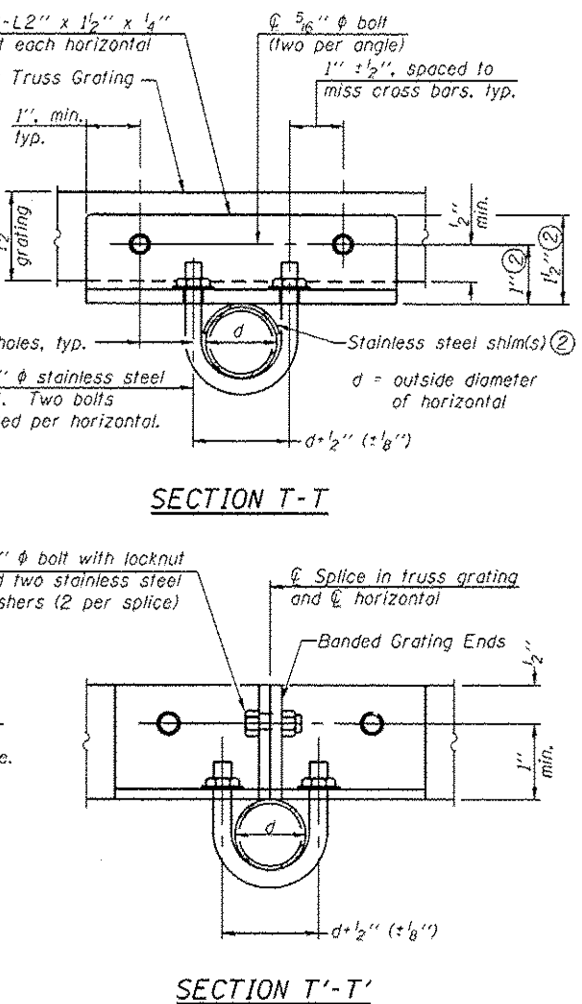
FILE NAME :



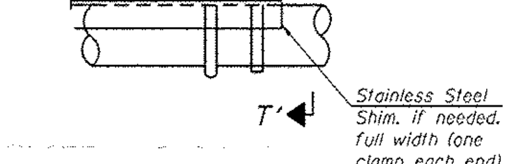
Minimum elevation for top of WF(A-N)4x3.06 for support walkway only.
℄ Truss and Truss Grating
WF(A-N)4x1.79 Sign support or WF(A-N)4x3.06 sign and walkway support
℄ 7/16" ϕ holes, typ.
Sign shall be even with the top of the bracket, but it may extend no more than 6" above the top of the bracket for field adjustments.
℄ 3/8" ϕ Stainless steel u-bolts. Provide 2 stainless steel washers and 2 hexagon locknuts per bolt. (4 bolts required per walkway bracket, two top and two bottom).
℄ Truss and sign
Sign Panel Place symmetrical about ℄ truss
2'-0" Standard Aluminum Grating
Truss grating See Detail T and Detail T'
Bottom of WF(A-N)4x1.79 and sign
Handrail See Base Sheet OS-A-11.
Walkway grating See Detail W
Handrail Hinge See Detail E on Base Sheet OS-A-11.
Detail C
Light Fixture (if required)
1'-4"
2'-0" Standard Aluminum Grating
7½"
10¾"
6½"
6½"
1¼"
6'-0½"
1'-3" min.
SECTION B-B
4"
2"
R
R = bend to match tube (approximately)
1/16" or 16 ga. ② min.
ELEVATION
END VIEW
SHIM DETAIL



5"
Plate 5/8" x 5"
C
WF(A-N)4x3.06 ASTM B308, Alloy 6061-T6
No back gouge
60°
DETAIL C
5/8"
WF(A-N)4x3.06
4"
3½"
SECTION C-C
Main bearing bars
Cross bars
1½" typ.
2" ②
⑤
1¼"
Drill ① 3/8" ϕ holes in walkway for 5/16" ϕ bolts, 1" long, each with one locknut and two stainless steel flat washers.
L2" x 1½" x ¼", typ.
Horizontal
Screw type stainless steel tube clamp at shim location
℄ 3/8" ϕ holes in angles for 5/16" ϕ stainless steel u-bolts. Two stainless steel washers and hot dip galvanized steel nuts required per bolt. U-bolt and angle connections required at horizontals only.
Stainless steel shim(s) ② If needed, place on top of horizontals and horizontal diagonals. Secure with one stainless steel clamp per side. See "Shim Detail".
DETAIL T
(Continuous Truss grating)



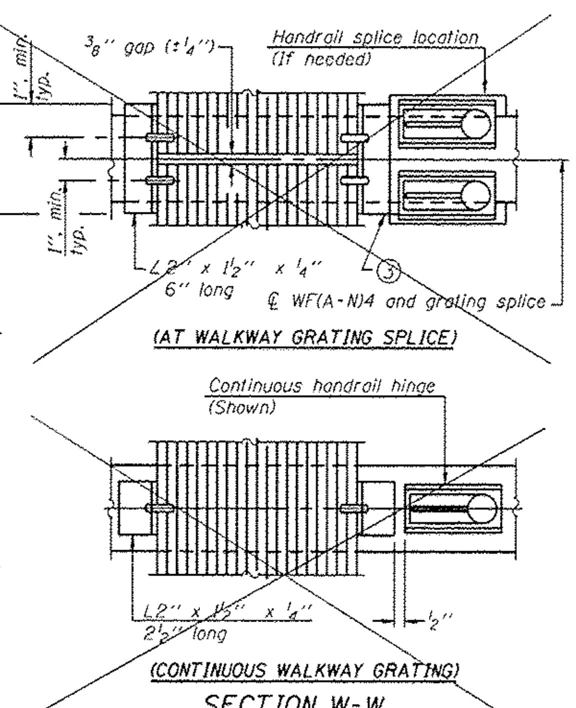
2-L2" x 1½" x ¼" at each horizontal
℄ 5/16" ϕ bolt (two per angle)
1" ±½", spaced to miss cross bars, typ.
Continuous Truss Grating
1", min. typ.
1½" grating
½" min.
℄ 3/8" ϕ holes, typ.
Stainless steel shim(s) ②
℄ 5/16" ϕ stainless steel u-bolt. Two bolts required per horizontal.
d = outside diameter of horizontal
d+½" (±⅛")
SECTION T-T
5/16" ϕ bolt with locknut and two stainless steel washers (2 per splice)
℄ Splice in truss grating and ℄ horizontal
Banded Grating Ends
1" min.
d+½" (±⅛")
SECTION T'-T'

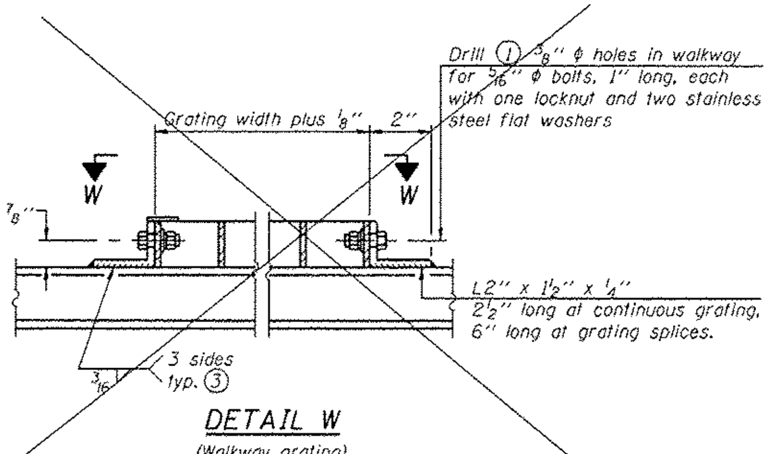


DETAIL T'

(Truss grating splice)

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





SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

Main Bearing Bars shall be 3/16" x 1½" on 1 3/16" centers and conform to ASTM B221 Alloy 6061-T6.
Cross bars shall be 3/16" x 1½" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

OR

Aluminum Grating with modified "I" sections for main bearing bars shall meet the following requirements:
Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 $in.^3$ per bar, a depth of 1½", spaced on 1 3/16" centers.
Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

Structure Number	Station	A	⑥ B	C	⑥ D
1500210 55R276.1	1069+90	9½"	N/A	7'-0"	N/A

① Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.

② Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.

③ ~~If Handrail Joint present, weld angle to WF(A-N)4 and ¼" extension bars. (See Base Sheet OS-A-11.)~~

④ ~~℄ ⅛" x ½" x 2" welded to handrail posts to protect locations that contact grating.~~

⑤ Tube to grating gap may vary from 0 to ½", max. to align walkway, allow for camber, etc.

⑥ Based on actual height of tallest sign given on Sheet S1.

OS-A-10 6-1-12

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4415 WEST HARRISON ST. SUITE 231 HILLSIDE, IL 60162
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USER NAME =	DESIGNED -	REVISED -	
	CHECKED - JMG, MAI	REVISED -	
PLOT SCALE =	DRAWN - KJD	REVISED -	
PLOT DATE = 3/04/2015	DATE - 2/17/2015	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
ALUMINUM WALKWAY DETAILS

Sheet No. S11 of S12

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	D-1 OVD SIN STR REPL	DUPAGE	94	47
	CONTRACT NO. 46337			
	ILLINOIS FED. AID PROJECT			

FILE NAME =

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

BORING LOG S-01

WEI Job No.: 213-02-01

Client: HBM Engineering Group, LLC
Project: I-55 at County Line Road
Location: Burr Ridge, Illinois

Datum: NAVD 88
Elevation: 710.75 ft
North: 1853377.73 ft
East: 1096733.13 ft
Station:
Offset:

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	709.7	13-inch thick, ASPHALT --PAVEMENT--						
	709.0	8-inch thick, CRUSHED STONE --BASE COURSE--			1	6 3 3	0.50 P	17
	707.8	Medium stiff, brown SILTY CLAY LOAM, trace gravel --FILL--						
		Medium stiff to hard, gray SILTY CLAY LOAM, trace gravel	5		2	3 9 9	3.50 P	17
					3	3 6 8	3.28 B	15
			10		4	3 4 6	2.13 B	17
					5	3 5 8	2.54 B	14
			15		6	3 5 7	2.54 B	12
					7	4 6 8	2.38 B	15
			20		8	2 5 6	1.80 B	16
		–Moist–			9	3 4 7	0.82 B	13
			25		10	5 10 12	1.15 B	12
			30		11	7 7 9	1.89 B	15
					12	4 6 7	1.48 B	19
					13	5 7 8	1.56 B	13
			35		14	7 12 15	5.58 B	12
	674.3	Dense, gray SILTY LOAM, little gravel			15	13 17 16	NP	10
	672.8	Stiff, gray SILTY CLAY LOAM, trace gravel						
	670.8		40		16	4 6 8	1.23 B	12
		Boring terminated at 40.00 ft						
			45					
			50					

WANGENGINC 213020I.GPJ WANGENG.GDT 2/10/15

GENERAL NOTES

Begin Drilling: 02-06-2015 Complete Drilling: 02-06-2015
Drilling Contractor: Wang Testing Services Drill Rig: CME 55 TMR
Driller: R&K Logger: F. Bozga Checked by: N.Balakumaran
Drilling Method: 3.25" HSA; boring backfilled upon completion

WATER LEVEL DATA

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

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

HBM ENGINEERING GROUP, LLC CONSULTING & DESIGN INSPECTION & RATING RESEARCH & TESTING	4415 WEST HARRISON ST, SUITE 231 HILLSIDE, IL 60162 PHONE: (708) 236-0900 FAX: (708) 236-0901	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BORING LOG	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			CHECKED -	REVISED -			VAR.	D-1 OVD SIN STR REPL	DUPAGE	94	48
		PLOT SCALE =	DRAWN -	REVISED -						CONTRACT NO. 46337	
		PLOT DATE = 3/04/2015	DATE -	REVISED -		Sheet No. S12 of S12			ILLINOIS	FED. AID PROJECT	

Illinois Department of Transportation

Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Date 1/28/15

ROUTE FAP Route 305 DESCRIPTION Eastbound Palatine Road LOGGED BY M. Esposito

SECTION ______ LOCATION Northeast quarter of, SEC. 20, TWP. 42N, RNG. 11E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Auto

STRUCT. NO. 1C016L000R000.0-005
Station NA

BORING NO. PSB-01
Station 24' west of the existing sign.
Offset
Ground Surface Elev. 97.44 ft

Surface Water Elev. NA ft
Stream Bed Elev. NA ft

Groundwater Elev.:
First Encounter 79.9 ft ▼
Upon Completion 80.9 ft ▽
After 24 Hrs. 81.6 ft ▽

Description	Elev. (ft)	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Stiff to Hard Brown, Moist SILTY CLAY, some gravel					20
Transitions to mottled Brown and Black in color.			2 4 6	1.8 B	24
Transitions to Brown in color.		-5	2 3 5	2.5 B	26
			3 6 7	5.0 B	20
		-10	4 7 11	6.1 B	20
	85.44				
Stiff to Very Stiff Gray, Moist SILTY CLAY			4 5 9	4.3 B	22
		-15	4 6 8	2.4 B	19
2 inch sand lens at 18 feet		▼ ▽ ▼	5 3 6	1.7 B	19
		-20			
Stiff to Very Stiff Gray, Moist SILTY CLAY *(continued)*			4 5 7	1.8 B	19
	74.44				
Medium Dense Gray, Moist SAND AND GRAVEL			2 5 7		13
		-25	5 7 11		12
	70.94				
Note: Temp Benchmark = SW bolt on existing sign. (elev.= 100') End of Boring					
		-30			
		-35			
		-40			

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

BBS, from 137 (Rev. 8-99)

S:\SS\GEOTECH\GEOTECH PROGRAMS\GINT\PROJECTS\COOK\PALATINE RD SIGN STRUCTURES_1-29-15.GPJ 1/30/15

Illinois Department of Transportation

Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Date 1/29/15

ROUTE FAP Route 305 DESCRIPTION Eastbound Palatine Road LOGGED BY M. Esposito

SECTION ______ LOCATION Northeast quarter of, SEC. 21, TWP. 42N, RNG. 11E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Auto

STRUCT. NO. 1C016L000R000.0-004
Station NA

BORING NO. PSB-03
Station 8' east of the existing sign.
Offset
Ground Surface Elev. 96.63 ft

Surface Water Elev. NA ft
Stream Bed Elev. NA ft

Groundwater Elev.:
First Encounter 66.6 ft ▼
Upon Completion 78.8 ft ▽
After - Hrs. NA ft

Description	Elev. (ft)	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Hot Mix Asphalt Median	95.63				
Very Stiff Black and Gray, Very Moist SILTY CLAY (Possible Fill Material)			3 4 6	2.3 B	28
	92.13				
Very Stiff to Hard Brown and Gray, Moist SILTY CLAY		-5	3 4 4	2.3 B	21
Transitions to Brown in color.			4 6 10	4.6 B	20
Encountered Cobble at 10.5 feet		-10	5 8 11	4.5 P	20
	84.63				
Very Stiff to Hard Gray, Moist SILTY CLAY			5 7 10	4.3 B	19
		-15	4 8 11	4.2 B	19
		▽	3 5 7	2.7 B	19
	77.13	-20			
Stiff Brown, Moist SILTY CLAY *(continued)*			2 4 5	1.2 B	16
	74.63				
Medium Stiff to Hard Gray, Moist SILTY CLAY			3 5 8	1.3 B	13
		-25	4 5 8	0.9 B	15
			2 5 17	6.0 B	13
	66.63 ▼	-30			
Loose Gray, Moist SAND			2 4 5		18
	65.13				
Note: Temp Benchmark = SE bolt on existing sign. (elev.= 100') End of Boring					
		-35			
		-40			

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

BBS, from 137 (Rev. 8-99)

S:\SS\GEOTECH\GEOTECH PROGRAMS\GINT\PROJECTS\COOK\PALATINE RD SIGN STRUCTURES_1-29-15.GPJ 1/30/15

FILE NAME : c:\pw_work\pwidot\pociechal\d0420760\C601015-sht-tsl.dgn	USER NAME : pociechal	DESIGNED - MD/HM	REVISED -
		DRAWN - LP	REVISED -
	PLOT SCALE : 100.0000 ' / in.	CHECKED -	REVISED -
Default	PLOT DATE : 4/28/2015	DATE - 02/06/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
(PSB-01 AND PSB-03)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D1 OVH SIN STR REPL 15-10	VARIOUS	94	49

CONTRACT NO. 46337

ILLINOIS FED. AID PROJECT

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 1/28/15

ROUTE FAP Route 305 DESCRIPTION Eastbound Palatine Road LOGGED BY M. Esposito

SECTION LOCATION Northeast quarter of, SEC. 20, TWP. 42N, RNG. 11E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Auto

STRUCT. NO. 1C016L000R000.0-005
Station Location #20

BORING NO. PSB-01
Station 24' west of the existing sign.
Offset
Ground Surface Elev. 97.44 ft

Surface Water Elev. NA ft
Stream Bed Elev. NA ft

Groundwater Elev.:
First Encounter 79.9 ft ▼
Upon Completion 80.9 ft ▽
After 24 Hrs. 81.6 ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Stiff to Hard Brown, Moist SILTY CLAY, some gravel					20
Transitions to mottled Brown and Black in color.			2 4 6	1.8 B	24
Transitions to Brown in color.		-5	2 3 5	2.5 B	26
			3 6 7	5.0 B	20
		-10	4 7 11	6.1 B	20
	85.44				
Stiff to Very Stiff Gray, Moist SILTY CLAY			4 5 9	4.3 B	22
		-15	4 6 8	2.4 B	19
2 inch sand lens at 18 feet			5 3 6	1.7 B	19
		-20			
Stiff to Very Stiff Gray, Moist SILTY CLAY *(continued)*			4 5 7	1.8 B	19
	74.44		2		
Medium Dense Gray, Moist SAND AND GRAVEL			5 7		13
		-25	5 7 11		12
	70.94				
Note: Temp Benchmark = SW bolt on existing sign. (elev.= 100') End of Boring		-30			
		-35			
		-40			

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

BBS, from 137 (Rev. 8-99)

S:\SS\GEOTECH\GEOTECH PROGRAMS\GINT\PROJECTS\COOK\PALATINE RD SIGN STRUCTURES_1-29-15.GPJ 1/30/15

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation District

SOIL BORING LOG

Page 1 of 1

Date 3/16/15

ROUTE FAP Route 305 DESCRIPTION Westbound Palatine Road LOGGED BY M. Esposito

SECTION LOCATION Southwest quarter of, SEC. 16, TWP. 42N, RNG. 11E, 3rd PM.
Latitude 42°6'36", Longitude -87°57'45.0828"

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Auto

STRUCT. NO. 1C016L000L000.0-000
Station Location #25

BORING NO. PSB-02
Station 9' west of the existing sign.
Offset
Ground Surface Elev. 96.67 ft

Surface Water Elev. NA ft
Stream Bed Elev. NA ft

Groundwater Elev.:
First Encounter 66.7 ft ▼
Upon Completion None ft
After - Hrs. NA ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Hot Mix Asphalt Median	95.17				
Hard Brown, Moist SILTY CLAY Encountered Cobble at 10.5 feet			100/6"		16
		-5	5 7 7	5.9 B	18
			4 6 10	5.5 B	19
	87.17				
Stiff to Hard Gray, Moist CLAY		-10	5 7 11	4.2 B	17
			4 6 7	1.9 B	18
		-15	3 4 7	2.4 B	19
			2 3 5	1.8 B	22
		-20			
Stiff to Hard Gray, Moist CLAY *(continued)*			1 3 4	1.2 B	23
			2 4 5	2.1 B	23
		-25	2 3 4	1.8 B	23
	69.67				
Stiff to Very Stiff Gray, Moist SILTY CLAY			3 8 10	1.7 B	16
		▼ -30	3 5 9	2.1 B	17
	65.17				
Note: Temp Benchmark = NW bolt on existing sign. (elev.= 100') End of Boring					
		-35			
		-40			

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

BBS, form 137 (Rev. 8-99)

SOIL BORING PALATINE RD SIGN STRUCTURES_1-29-15.GPJ IL_DOT.GDT 3/17/15

FILE NAME = c:\pw_work\pwidot\pociechal\d0420760\C601015-sht-tsl.dgn	USER NAME = pociechal	DESIGNED - MD/HM	REVISED -
		DRAWN - LP	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
Default	PLOT DATE = 4/28/2015	DATE - 02/06/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
(PSB-01 AND PSB-02)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D1 OVH SIN STR REPL 15-10	VARIOUS	94	50
		CONTRACT NO. 46337		
		ILLINOIS FED. AID PROJECT		

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Date 1/29/15

ROUTE FAP Route 305 DESCRIPTION Eastbound Palatine Road LOGGED BY M. Esposito

SECTION _____ LOCATION Northeast quarter of, SEC. 21, TWP. 42N, RNG. 11E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Auto

STRUCT. NO. 1C016L000R000.0-004
Station Location #27

BORING NO. PSB-03
Station 8' east of the existing sign.
Offset _____
Ground Surface Elev. 96.63 ft

Surface Water Elev. NA ft
Stream Bed Elev. NA ft

Groundwater Elev.:
First Encounter 66.6 ft ▼
Upon Completion 78.8 ft ▽
After - Hrs. NA ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Hot Mix Asphalt Median			
95.63			
Very Stiff Black and Gray, Very Moist SILTY CLAY (Possible Fill Material)	3		
	4 6	2.3 B	28
92.13			
Very Stiff to Hard Brown and Gray, Moist SILTY CLAY	-5 3		
	4 4	2.3 B	21
Transitions to Brown in color.	4		
	6 10	4.6 B	20
	-10 5		
Encountered Cobble at 10.5 feet	8 11	4.5 P	20
84.63			
Very Stiff to Hard Gray, Moist SILTY CLAY	5		
	7 10	4.3 B	19
	-15 4		
	8 11	4.2 B	19
	▽ 3		
	5 7	2.7 B	19
77.13	-20		
Stiff Brown, Moist SILTY CLAY *(continued)*	2		
	4 5	1.2 B	16
74.63			
Medium Stiff to Hard Gray, Moist SILTY CLAY	3		
	5 8	1.3 B	13
	-25 4		
	5 8	0.9 B	15
	2		
	5 17	6.0 B	13
66.63 ▼	-30		
Loose Gray, Moist SAND	2		
	4 5		18
65.13			
Note: Temp Benchmark = SE bolt on existing sign. (elev.= 100') End of Boring			
	-40		

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

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation District

SOIL BORING LOG

Date 2/10/15

ROUTE FAP Route 305 DESCRIPTION Eastbound Palatine Road LOGGED BY M. Esposito

SECTION _____ LOCATION Northwest quarter of, SEC. 22, TWP. 42N, RNG. 11E, 3rd PM,
Latitude 42°6'35.1432", Longitude -87°56'33.8064"

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Auto

STRUCT. NO. 1C016L000R000.0-003
Station Location #19

BORING NO. PSB-04
Station 14' east of the existing sign.
Offset NA ft
Ground Surface Elev. 96.93 ft

Surface Water Elev. NA ft
Stream Bed Elev. NA ft

Groundwater Elev.:
First Encounter 61.9 ft ▼
Upon Completion NA ft
After 24 Hrs. 60.9 ft ▽

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Hot Mix Asphalt Median			
95.93			
Brown, Moist FILL: SILTY CLAY			
94.43	6		
Stiff to Very Stiff Black, Moist SILTY CLAY	3 5	1.3 B	20
	-5 3		
Transitions to mottled black and gray in color.	4 6	1.4 B	21
	3		
	3 4	2.8 B	25
86.93	-10 2		
Medium Stiff Mottled Gray and Brown, Very Moist SILTY CLAY	2 2	0.5 B	29
83.93	3		
Very Stiff to Hard Brown, Moist SILTY CLAY	5 9	3.2 B	18
	-15 9		
	▽ 9 10	4.1 B	18
79.93			
Medium Stiff to Stiff Gray, Moist SILTY CLAY	4		
	6 6	0.9 B	19
	-20		
Medium Stiff to Stiff Gray, Moist SILTY CLAY *(continued)*	3		
	4 4	1.0 B	14
	3		
	4 5	1.9 B	12
	-25 3		
	4 5	1.8 B	14
	2		
	5 9	1.2 B	14
66.93	-30		
Very Stiff to Hard Gray, Moist SILTY CLAY	5		
	6 6	4.3 B	
	▼-35 2		
	5 8	2.6 B	
60.43			
Note: Temp Benchmark = SE bolt on existing sign. (elev.= 100') End of Boring			
	-40		

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

BBS, form 137 (Rev. 8-99)

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SOIL BORING PALATINE RD SIGN STRUCTURES_1-29-15.GPJ IL_DOT.GDT 2/11/15

FILE NAME = c:\pw_work\pwidot\paciechal\d0420760\C01201015-sht-tsl.dgn	USER NAME = paciechal	DESIGNED - MD/HM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - LP	REVISED -	
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
Defaults	PLOT DATE = 4/28/2015	DATE - 02/06/2015	REVISED -	

SOIL BORING LOGS
(PSB-03 AND PSB-04)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DI OVH SIN STR REPL 15-10	VARIOUS	94	51
		CONTRACT NO. 46337		
		ILLINOIS FED. AID PROJECT		

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation District

SOIL BORING LOG

Page 1 of 1

Date 3/13/15

ROUTE FAP Route 305 DESCRIPTION Westbound Palatine Road LOGGED BY M. Esposito

SECTION LOCATION Northwest quarter of, SEC. 22, TWP. 42N, RNG. 11E, 3rd PM,
Latitude 42°6'35.5644", Longitude -87°56'31.5492"

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Auto

STRUCT. NO. 1C016L000L000.0-001
Station Location #2

BORING NO. PSB-05
Station 10' west of the existing sign.
Offset
Ground Surface Elev. 96.84 ft

Surface Water Elev. NA ft
Stream Bed Elev. NA ft

Groundwater Elev.:
First Encounter 79.8 ft ▼
Upon Completion 88.8 ft ▽
After 24 Hrs. 87.3 ft ▽

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Concrete Median 96.34			
Gray crushed aggregate. 95.34			
Hard Brown, Moist SILTY CLAY	3		
92.84	4 6	5.2 B	18
Stiff to Very Stiff Black, Moist to Very Moist SILTY CLAY, trace gravel -5	6		
	6 6	2.2 B	18
▽	2		
	3 3	1.3 P	28
86.84 -10			
Medium Stiff to Stiff Gray, Moist SILTY CLAY	1		
	2 2	0.7 B	22
	2		
	3 5	1.7 B	20
-15			
	3		
	6 10	2.0 S at 12%	17
79.84 ▼			
Medium Dense Gray, Coarse Grain, Wet SAND	2		
	3 6		16
-20			
Medium Dense Gray, Coarse Grain, Wet SAND *(continued)*	7		
	7 8		15
74.84			
Very Stiff to Hard Gray, Moist CLAY	3		
	4 5	1.7 B	15
-25	4		
	5 6	1.7 B	14
	4		
	5 10	3.6 B	12
-30	6		
65.34	8 13	4.7 B	12
Note: Temp Benchmark = SW bolt on existing sign. (elev.= 100') End of Boring			
-40			

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

BBS, form 137 (Rev. 8-99)

SOIL BORING PALATINE RD SIGN STRUCTURES_1-20-15.GPJ IL_DOT.GDT 3/16/15

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation District

SOIL BORING LOG

Page 1 of 1

Date 3/6/15

ROUTE FAP Route 305 DESCRIPTION Eastbound Palatine Road LOGGED BY M. Esposito

SECTION LOCATION Northeast quarter of, SEC. 22, TWP. 42N, RNG. 11E, 3rd PM,
Latitude 42°6'34.9524", Longitude -87°55'53.67"

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Auto

STRUCT. NO. 1C016L000R000.0-002
Station Location #18

BORING NO. PSB-06
Station 10' east of the existing sign
Offset
Ground Surface Elev. 96.92 ft

Surface Water Elev. NA ft
Stream Bed Elev. NA ft

Groundwater Elev.:
First Encounter 91.9 ft ▼
Upon Completion 79.0 ft ▽
After 24 Hrs. 79.1 ft ▽

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Hot Mix Asphalt Median			
95.42			
Very Stiff to Hard Brown and Gray, Moist SILTY CLAY	3		
	4 6	2.9 B	26
▼ -5			
	5		
	10 12	7.1 B	17
90.42			
Brown, Wet SANDY LOAM	4		22
88.92			
Hard Brown and Gray Mottled, Moist SILTY CLAY	4 6	5.3 B	19
-10			
	4		
85.92	6 9	6.2 B	14 7
Loose Gray, Coarse Grain, Moist SAND	3		
	4 4		8
82.42 -15			
Stiff Gray, Moist SILT LOAM	3		
	7 7	1.7 S at 11%	17
79.92			
Loose to Medium Dense Gray, Coarse Grain, Wet SAND ▽▼	3		
	5 6		21
-20			
Loose to Medium Dense Gray, Coarse Grain, Wet SAND *(continued)*	1		
	3 3		23
75.42			
Medium Stiff Gray, Moist LOAM	1		
	2 4	0.5 B	17
-25			
71.42	0		
Medium Stiff to Very Stiff Gray, Moist SILTY CLAY	2 5	1.0 B	14
	2		
	3 5	0.8 B	14
-30			
	4		
	5 6	3.1 B	14
65.42			
Note: Temp Benchmark = SE bolt on existing sign. (elev.= 100') End of Boring			
-40			

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

BBS, form 137 (Rev. 8-99)

SOIL BORING PALATINE RD SIGN STRUCTURES_1-20-15.GPJ IL_DOT.GDT 2/10/15

FILE NAME = c:\pw_work\pwidot\poolechol\d0420760\CG201015-sht-tsl.dgn	USER NAME = poolechol	DESIGNED - MD/HM	REVISED -
		DRAWN - LP	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
Default	PLOT DATE = 4/28/2015	DATE - 02/06/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
(PSB-05 AND PSB-06)

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DI OVH SIN STR REPL 15-10	VARIOUS	94	52
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation District

SOIL BORING LOG

Date 3/16/15

ROUTE FAP Route 305 DESCRIPTION Westbound Palatine Road LOGGED BY M. Esposito

SECTION _____ LOCATION Southeast quarter of, SEC. 15, TWP. 42N, RNG. 11E, 3rd PM.
Latitude 42°6'35.3556", Longitude -87°55'47.2728"

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Auto

STRUCT. NO. 1C016L000L000.0-002
Station Location #22

BORING NO. PSB-07
Station 7' west of the existing sign
Offset _____
Ground Surface Elev. 96.78 ft

Surface Water Elev. NA ft
Stream Bed Elev. NA ft

Groundwater Elev.:
First Encounter NA ft
Upon Completion NA ft
After - Hrs. NA ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Hot Mix Asphalt Median 95.78				
Gray crushed aggregate. 94.78				
Stiff Brown, Moist SILTY CLAY		1 2 2		19
	-5			
91.28		100/3"		
Note: boring encountered refusal at 6 feet below surface grade at several locations. End of Boring				
	-10			
	-15			
	-20			

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

BBS, form 137 (Rev. 8-99)

SOIL BORING PALATINE RD SIGN STRUCTURES_1-29-15.GPJ IL_DOT.GDT 3/17/15

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation District

SOIL BORING LOG

Date 3/14/15

ROUTE FAP Route 305 DESCRIPTION Westbound Palatine Road LOGGED BY M. Esposito

SECTION _____ LOCATION Southwest quarter of, SEC. 14, TWP. 42N, RNG. 11E, 3rd PM.
Latitude 42°6'35.3592", Longitude -87°55'26.1948"

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Auto

STRUCT. NO. 1C016L000L000.0-003
Station Location #23

BORING NO. PSB-08
Station 8' west of the existing sign.
Offset _____
Ground Surface Elev. 95.28 ft

Surface Water Elev. NA ft
Stream Bed Elev. NA ft

Groundwater Elev.:
First Encounter 78.3 ft ▼
Upon Completion 86.3 ft ▽
After 24 Hrs. 77.6 ft ▼

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Hot Mix Asphalt Median 94.78				
Gray crushed aggregate. 93.78				
Stiff to Hard Brown, Moist SILTY CLAY		1		
		2 3	1.7 B	18
	-5			
		5		
		9 11	5.9 B	17
		5		
		8 10	6.3 B	18
▽	-10			
		5		
		7 9	5.0 B	19
82.78				
Very Stiff Gray, Moist SILTY CLAY		3		
		5 7	2.6 B	17
	-15			
		4		
		6 11	3.9 B	16
▼ ▽ 77.28		8		
Medium Dense Gray, Coarse Grain, Wet SAND		7 6		13
	-20			
74.78		3		
Very Stiff Gray, Moist SILTY CLAY		5 8	3.7 B	16
73.28				
Very Stiff to Hard Gray, Moist to Very Moist SILTY LOAM		6		
		9 9	3.5 P	19
	-25			
		6		
		6 9	1.8 P	20
68.28				
Stiff to Very Stiff Gray, Moist SILTY CLAY		3		
		5 6	2.1 B	13
	-30			
			1.2 B	15
63.78				
Note: Temp Benchmark = SW bolt on existing sign. (elev.= 100') End of Boring				
	-35			
	-40			

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

BBS, form 137 (Rev. 8-99)

SOIL BORING PALATINE RD SIGN STRUCTURES_1-29-15.GPJ IL_DOT.GDT 3/16/15

FILE NAME = c:\pw_work\pwidot\pocsechal\d0420760\C6[illegible]0815-sht-tsl.dgn	USER NAME = pocsechal	DESIGNED - MD/HM	REVISED -
		DRAWN - LP	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
Default	PLOT DATE = 4/28/2015	DATE - 02/06/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
(PSB-07 AND PSB-08)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D1 OVH SIN STR REPL 15-10	VARIOUS	94	53
		CONTRACT NO. 46337		
		ILLINOIS FED. AID PROJECT		

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Date 3/10/15

ROUTE FAP Route 305 DESCRIPTION Eastbound Palatine Road LOGGED BY M. Esposito

SECTION _____ LOCATION Northeast quarter of, SEC. 23, TWP. 42N, RNG. 11E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Auto

STRUCT. NO. 1C016L000R000.0-001
Station Location # 17

BORING NO. PSB-09
Station 9' east of the existing sign
Offset _____
Ground Surface Elev. 97.40 ft

Surface Water Elev. NA ft
Stream Bed Elev. NA ft

Groundwater Elev.:
First Encounter 77.9 ft ▼
Upon Completion 85.8 ft ▽
After 36 Hrs. 89.7 ft ▽

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium Stiff to Stiff Brown, Moist to Very Moist SILTY CLAY			29
	3		
Transitions to brown and gray in color.	5	1.7	24
	7	S at 15%	
-5			
	1		
	2	0.4	26
	2	B	
89.90			
Very Stiff to Hard Brown, Moist SILTY CLAY	3		
	4	4.6	19
	7	B	
-10			
	3		
Transitions to gray in color.	5	3.9	17
▽	6	B	
	3		
	4	2.1	23
	5	B	
-15			
81.90	2		21
Medium Dense Gray, Wet SANDY LOAM	5		18
	6		
	3		
78.90	8		17
Medium Dense Gray, Coarse Grain, Wet SAND	9		
▼ -20			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
	1		
76.40	2	1.6	21
Gray, Coarse Grain, Moist SANDY LOAM	4	B	14
75.40			
Stiff to Hard Gray, Moist SILTY CLAY	2		
	4	1.8	15
Encountered Cobble at 23.9 feet.	31	B	
-25			
	4		
	7	4.6	16
	10	S at 14%	
70.40			
Very Stiff Gray, Moist SILTY LOAM	13		
	23	3.9	19
	33	B	
-30			
	13		
	23		12
65.90	17		
Note: Temp Benchmark = SE bolt on existing sign. (elev.= 100')			
End of Boring			
-40			

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

BBS, from 137 (Rev. 8-99)

S:\SIS\GEOTECH\GEOTECH PROGRAMS\GINT\PROJECTS\COOK\PALATINE RD SIGN STRUCTURES_1-29-15.GPJ 3/12/15

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation District

SOIL BORING LOG

Date 3/12/15

ROUTE FAP Route 305 DESCRIPTION Westbound Palatine Road LOGGED BY M. Esposito

SECTION _____ LOCATION Northwest quarter of, SEC. 24, TWP. 42N, RNG. 11E, 3rd PM.
Latitude 42°6'34.452", Longitude -87°54'12.6396"

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Auto

STRUCT. NO. 1C016L000L000.0-004
Station Location # 26

BORING NO. PSB-10
Station 2' west of the existing sign
Offset _____
Ground Surface Elev. 96.65 ft

Surface Water Elev. NA ft
Stream Bed Elev. NA ft

Groundwater Elev.:
First Encounter 87.2 ft ▼
Upon Completion 87.4 ft ▽
After 24 Hrs. 87.0 ft ▽

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Black, Moist SILTY CLAY, trace organics (Topsoil)			20
94.65			
Stiff to Hard Brown, Moist SILTY CLAY	3		
	5	4.5	15
	7	P	
-5			
with gravel at 5 feet.	6		
	7	1.6	11
4 inch sand lens at 6 feet. 90.15	9	S	
Very Stiff Brown, Moist LOAM	6		
	8	2.5	11
	10	P	
87.15 ▽			
Medium Dense Gray, Coarse Grain, Very Moist SAND	6		
-10			
	11		15
	10		
84.15			
Very Stiff to Hard Gray, Moist CLAY	7		
	11	3.6	13
	19	B	
-15			
	5		
	8	4.9	21
	16	B	
79.65			
Stiff Gray, Moist SILTY LOAM	10		
78.15	16	1.9	20
Gray, Moist SAND AND GRAVEL	11	S	
77.15			
-20			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
	1		
Stiff Gray, Moist SILTY CLAY (continued)	3	1.0	13
	4	B	
74.65			
VeryStiff Gray, Moist CLAY	3		
	6	2.7	16
	12	B	
-25			
	4		
70.65	8	4.6	13
Hard Gray, Moist SILTY LOAM	23	B	
	14		
	14	4.7	13
	11	S at 11%	
-30			
	3		
	7	4.2	12
65.15	11	S	
Note: Temp Benchmark = SE bolt on existing sign. (elev.= 100')			
-35			
End of Boring			
-40			

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

BBS, form 137 (Rev. 8-99)

S:\SIS\GEOTECH\GEOTECH PROGRAMS\GINT\PROJECTS\COOK\PALATINE RD SIGN STRUCTURES_1-29-15.GPJ IL_DOT.GDT 3/13/15

SOIL BORING PALATINE RD SIGN STRUCTURES_1-29-15.GPJ IL_DOT.GDT 3/13/15

FILE NAME = c:\pe_work\pwidot\paschchal\d0420708\C6420815-sht-tol.dgn	USER NAME = paschchal	DESIGNED - MD/HM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORING LOGS (PSB-01 AND PSB-10)
	PLOT SCALE = 100.0000 ' / in.	DRAWN - LP	REVISED -		
Default	PLOT DATE = 4/28/2015	CHECKED -	REVISED -		
		DATE - 02/06/2015	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DI OVH SIN STR REPL 15-10	VARIOUS	94	54
		CONTRACT NO. 46337		
		ILLINOIS FED. AID PROJECT		

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation District

SOIL BORING LOG

Date 3/9/15

ROUTE FAP Route 305 DESCRIPTION Eastbound Palatine Road LOGGED BY M. Esposito

SECTION _____ LOCATION Northwest quarter of, SEC. 24, TWP. 42N, RNG. 11E, 3rd PM, Latitude 42°6'33.7968", Longitude -87°54'6.1308"

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Auto

STRUCT. NO. 1C016L000R000.0-000
Station Location #16

BORING NO. PSB-11
Station 12' east of the existing sign
Offset _____
Ground Surface Elev. 96.56 ft

Surface Water Elev. NA ft
Stream Bed Elev. NA ft

Groundwater Elev.:
First Encounter None ft
Upon Completion 74.7 ft
After 24 Hrs. 86.5 ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				Hot Mix Asphalt Median
95.56				
				Brown crushed aggregate.
94.56				
	3			Medium Stiff Black, Moist to Very Moist SILTY CLAY
	3	4.5	20	
	2	P		Transitions to gray in color.
-5				
	1			
	2	1.0	25	
	2	B		
	0			Transitions to mottled gray and brown in color.
	2	0.6	18	
	3	B		
-10				
	2			Transitions to Hard in Consistency.
	5	4.2	24	
	6	B		
84.56				
	3			Stiff Gray, Moist SILTY LOAM
	4	1.2	17	
	5	B		
-15				
	2			
	5	1.2	14	
	7	B		
79.56				
	2			Stiff Gray, Moist SILTY CLAY
	2	1.2	15	
77.06	5	B		
-20				
	4			Stiff Gray, Moist SILTY LOAM *(continued)*
	6	1.5	17	
	6	S at		
74.56		12%		
	2			Stiff to Hard Gray, Moist SILTY CLAY
	5	1.7	17	
	7	B		
-25				
	5			
	7	1.6	15	
	11	S at		
		15%		
	7			
	16	3.3	13	
	24	B		
-30				
	6			
	11	5.7		
	19	B		
65.06				Note: Temp Benchmark = SE bolt on existing sign. (elev.= 100') End of Boring
-40				

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

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Date 3/11/15

ROUTE FAP Route 305 DESCRIPTION Westbound Palatine Road LOGGED BY M. Esposito

SECTION _____ LOCATION southwest quarter, SEC. 18, TWP. 42N, RNG. 12E, 3rd PM

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Auto

STRUCT. NO. 1C016L000L000.0-005
Station Location # 24

BORING NO. PSB-12
Station 15' South, 6' East of exist. sign
Offset _____
Ground Surface Elev. 94.73 ft

Surface Water Elev. NA ft
Stream Bed Elev. NA ft

Groundwater Elev.:
First Encounter 70.7 ft
Upon Completion 89.7 ft
After - Hrs. NA ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
			23	Stiff Brown SILTY CLAY
	3			
	3	1.7	24	
	4	B		
-5				
	0	0.9	24	
	0	B		
	15			
86.73	3			
	8	3.0	24	Stiff Brown SILTY CLAY LOAM
	15	B	20	
-10		1.7		
84.73	5	S @ 15%		Medium Dense GRAY SILT
	9		14	
	14			
	4			
	5		19	
	5			
-15				
79.23	2			
	6	0.9	17	Medium Dense Gray SILTY CLAY LOAM
	4	S @ 11%		
77.23				
	2			Stiff Gray SILTY CLAY
	2	1.2	15	
	4	B		
-20				
	2			Stiff Gray SILTY CLAY *(continued)*
	3	1.2	15	
	6	B		
	4			
	8	2.3	13	2" Sand Seam @ 23'
	10	B		
70.23				
-25				Medium Dense Gray COARSE SAND
	5			
	5		20	
	9			Drillers Note: Began Drilling with water @ 26'
	3			
66.23				
	8	2.3	21	Stiff Gray SILTY CLAY
	6	B		
-30				
	4			
	9	1.6	15	
	14	B		
63.23				Note: Benchmark used was the S.E. bolt on existing sign foundation. Assumed elevation = 100.0' End of Boring
-40				

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

BBS, from 137 (Rev. 8-99)

SOIL BORINGS PALATINE RD SIGN STRUCTURES_1-29-15.GPJ IL_DOT.GDT 3/11/15

S:\SS\GEOTECH\GEOTECH PROGRAM\SIGN\PROJECTS\COOK\PALATINE RD SIGN STRUCTURES_1-29-15.GPJ 3/12/15

FILE NAME = c:\pw_work\pwidot\paciechal\d0420768\C6201815-sht-tsl.dgn	USER NAME = paciechal	DESIGNED - MD/HM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORING LOGS (PSB-11 AND PSB-12)
		DRAWN - LP	REVISED -		
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.
Default	PLOT DATE = 4/20/2015	DATE - 02/06/2015	REVISED -		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DI OVH SIN STR REPL 15-10	VARIOUS	94	55
		CONTRACT NO. 46337		
		ILLINOIS FED. AID PROJECT		

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Date 3/17/15

ROUTE FAP 348 DESCRIPTION Southbound Illinois Route 43 (Harlem Avenue) LOGGED BY M. Esposito

SECTION _____ LOCATION SE 1/4, SEC. 1, TWP. 35, RNG. 12, 3rd PM

COUNTY Will DRILLING METHOD CME 750, 3.25" HSA HAMMER TYPE Automatic

STRUCT. NO. 1C099I08CR148.9-000
Station Location #9

BORING NO. PSB-13
Station 8' south of exist. sign
Offset _____
Ground Surface Elev. 97.46 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft
Groundwater Elev.:
First Encounter DRY ft
Upon Completion DRY ft
After ____ Hrs. N/A ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Hard Brown CLAY (Fill)				
		2		
		2	3.3	22
		3	B	
	-5			
		3		
		5	4.6	20
		7	B	
		6		
		10	7.4	19
		10	B	
	-10			
		4		
		7	4.5	19
		9	B	
		6		
mottles w/ Gray CLAY		9	9.3	18
		13	S @	
			15%	
	-15			
		4		
		7	7.7	17
		11	B	
		5		
		5	6.6	18
		7	B	
	77.46 -20			
Very Stiff to Hard Brown CLAY		4		
		6	3.9	19
		8	B	
		4		
		12	5.5	20
		8	B	
	-25			
		3		
		5	3.4	20
		6	B	
	70.46			
Stiff Gray/Black Mottled SILTY CLAY		3		
		3	1.7	32
		5	B	
	67.96			
Very Stiff Gray/Brown SILTY CLAY	-30	2		
		3	2.8	25
		5	B	
	65.96			
Note= Benckmark is south bolt on existing foundation. Assumed elevation = 100.0'				
End of Boring	-40			

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

BBS, from 137 (Rev. 8-99)

S:\SS\GEOTECH\GEOTECH PROGRAMS\GINT\PROJECTS\WILL\ILLINOIS 43 SB SIGN STRUCTURE.GPJ 3/16/15

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Date 3/17/15

ROUTE FAP 348 DESCRIPTION Northbound Illinois Route 43 (Harlem Avenue) LOGGED BY M. Esposito

SECTION _____ LOCATION NW 1/4, SEC. 6, TWP. 35, RNG. 13, 3rd PM

COUNTY Cook DRILLING METHOD CME 750, 3.25" HSA HAMMER TYPE Automatic

STRUCT. NO. 1C016I080L148-000
Station Location #10

BORING NO. PSB-14
Station 10' north of exist. sign
Offset _____
Ground Surface Elev. 96.54 ft

Surface Water Elev. NA ft
Stream Bed Elev. NA ft
Groundwater Elev.:
First Encounter DRY ft
Upon Completion DRY ft
After ____ Hrs. N/A ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Very Stiff Brown CLAY (Fill)				
		3		
		6	3.4	19
		7	B	
	-5			
		1		
		2	0.9	25
		2	B	
		1		
		3	2.6	21
		3	B	
	-10			
		5		
		7	3.8	17
		12	B	
	84.54			
Hard Brown CLAY (Fill)		6		
		9	6.9	17
		13	B	
	-15			
		7		
		10	7.1	16
		12	S @	
			15	
		3		
		5	2.2	20
		6	B	
	76.54 -20			
Hard Brown CLAY		3		
		6	4.6	18
		8	S @	
			13%	
		3		
		8	5.0	17
		8	B	
	-25			
		3		
	70.54			
Very Stiff Black/Gray Mottled SILTY CLAY		4	2.2	25
		5	B	
	69.54			
Very Stiff Brown/Gray SILTY CLAY		3		
		47	3.3	27
		5	S @	
			15%	
	-30			
		2		
		3	2.6	26
		4	B	
	65.04			
Note=Benchmark is north bolt on exlsting foundation. Assumed elevation = 100.0'				
End of Boring	-40			

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

BBS, from 137 (Rev. 8-99)

S:\SS\GEOTECH\GEOTECH PROGRAMS\GINT\PROJECTS\COOK\ILLINOIS ROUTE 43 NB @ I-80 SIGN STRUCTURE.GPJ 3/16/15

FILE NAME = c:\pw_work\pwidot\poosechal\d0420760\C66D1015-sht-tsldgn	USER NAME = poosechal	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
Default	PLOT DATE = 4/20/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
(PSB-13 AND PSB-14)

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	01 OVH SIN STR REPL 15-10	VARIOUS	94	56
		CONTRACT NO. 46337		
		ILLINOIS FED. AID PROJECT		

Illinois Department of Transportation

Division of Highways
Illinois Department of Transportation District

SOIL BORING LOG

Date 3/18/15

ROUTE FAP Route 345 DESCRIPTION EB US Route 25 to IL Route 25 LOGGED BY M. Esposito

SECTION ______ LOCATION Southeaset quarter of, SEC. 24, TWP. 41N, RNG. 8E, 3rd PM,
Latitude 42°1'13.4832", Longitude -88°15'56.3796"

COUNTY Kane DRILLING METHOD Hollow Stem Auger HAMMER TYPE Auto

STRUCT. NO. 1C045U020L000.0-001
Station *Location #2*

BORING NO. PSB-15
Station 8' east of the existing sign
Offset
Ground Surface Elev. 95.60 ft

Surface Water Elev. NA ft
Stream Bed Elev. NA ft

Groundwater Elev.:
First Encounter None ft
Upon Completion None ft
After - Hrs. NA ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Dark Brown, Very Moist SILTY CLAY, with organics (Topsoil)					25
	93.60				
Medium Dense Brown, Coarse Grain, Moist SAND			3		
			4		6
			6		
		-5	3		
			5		6
			7		
			3		
			5		5
			4		
	86.10				
Medium Dense Brown, Moist SAND AND GRAVEL		-10	6		
			13		4
			15		
	83.60				
Loose Brown, Moist SANDY LOAM			2		
			2	0.5	14
			6	B	
	81.10				
Stiff Brown, Moist LOAM		-15	1		
			2	1.0	12
			4	B	
	78.60				
Very Stiff Brown, Moist SILTY CLAY			2		
			5	2.6	13
			6	B	
		-20			
Very Stiff Brown, Moist SILTY CLAY *(continued)*			4		
			4	2.0	13
			7	B	
			2		
			5	3.1	13
			7	B	
		-25	2		
			6	2.7	13
			8	B	
			4		
			6	3.3	13
			10	B	
		-30	2		
			6	3.5	12
			10	B	
		-35	3		
			6	2.7	12
			7	B	
		-40			

SOIL BORING US20 AT IL25_SIGN STRUCTURE_3-19-15.GPJ IL_DOT.GDT 3/19/15

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)

Illinois Department of Transportation

Division of Highways
Illinois Department of Transportation District

SOIL BORING LOG

Date 3/18/15

ROUTE FAP Route 345 DESCRIPTION EB US Route 25 to IL Route 25 LOGGED BY M. Esposito

SECTION ______ LOCATION Southeaset quarter of, SEC. 24, TWP. 41N, RNG. 8E, 3rd PM,
Latitude 42°1'13.4832", Longitude -88°15'56.3796"

COUNTY Kane DRILLING METHOD Hollow Stem Auger HAMMER TYPE Auto

STRUCT. NO. 1C045U020L000.0-001
Station *Location #2*

BORING NO. PSB-15
Station 8' east of the existing sign
Offset
Ground Surface Elev. 95.60 ft

Surface Water Elev. NA ft
Stream Bed Elev. NA ft

Groundwater Elev.:
First Encounter None ft
Upon Completion None ft
After - Hrs. NA ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Very Stiff Brown, Moist SILTY CLAY *(continued)*			4		
			6	3.4	13
	54.10		10	B	
Note: Temp Benchmark = S bolt on existing sign. (elev.= 100') End of Boring					
		-45			
		-50			
		-55			
		-60			

SOIL BORING US20 AT IL25_SIGN STRUCTURE_3-19-15.GPJ IL_DOT.GDT 3/19/15

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)

FILE NAME = c:\pw_work\pwidot\pooiechal\d0420760\CG01015-sht-tsl.dgn	USER NAME = pooiechal	DESIGNED - LP	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
Default	PLOT DATE = 4/28/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
(PSB-15)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	01 OVH SIN STR REPL 15-10	VARIOUS	94	57

CONTRACT NO. 46337

ILLINOIS FED. AID PROJECT

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation District

SOIL BORING LOG

Date 3/18/15

ROUTE FAI 94 DESCRIPTION Eastbound I94 (Edens Expressway) LOGGED BY M. Esposito

SECTION _____ LOCATION Southeast quarter of, SEC. 31, TWP. 42N, RNG. 13E, 3rd PM, Latitude 42°3'59.6196", Longitude -87°45'20.2104"

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Auto

STRUCT. NO. 1C016I094R035.5-000
Station Location #11

BORING NO. PSB-16
Station 12 south, 6' west of ex sign
Offset _____
Ground Surface Elev. 96.08 ft

Surface Water Elev. NA ft
Stream Bed Elev. NA ft

Groundwater Elev.:
First Encounter 93.6 ft ▼
Upon Completion None ft
After - Hrs. NA ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
			19	Medium Stiff Brown, Moist SILTY CLAY
	2			
	3 2	0.8	16	
91.58				
-5				Soft Gray, Moist LOAM
	0			
	0 2	0.3	17	
88.08	2			
	3 5	3.5	22	Very Stiff Gray, Moist CLAY with silt seams
-10				
	2			
	3 4	2.0	22	
	2			
	2 3	2.1	21	
81.58				
-15				Medium Stiff to Stiff Gray, Moist SILTY CLAY
	1			
	2 3	0.7	22	
	1			
	3 3	1.9	23	
76.58				
-20				
	1			Very Stiff Gray, Moist CLAY *(continued)*
	2 4	2.2	25	
	3			
	4 7	2.4	18	
-25				
	2			
	3 4	1.9	16	
	1			
	3 5	2.6	15	
-30				
	2			
	4 6	2.3	17	
64.58				
				Note: Temp Benchmark = S bolt on existing sign. (elev.= 100') End of Boring
-35				
-40				

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

BBS, form 137 (Rev. 8-99)

SOIL BORING I94 AT OLD ORCHARD SIGN STRUCTURE_3-19-15.GPJ IL_DOT.GDT 3/19/15

FILE NAME = c:\pw_work\pwidot\paciechal\d0420760\C0010015-sht-tsl.dgn	USER NAME = paciechal	DESIGNED -	REVISED -
		DRAWN -	REVISED -
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Default	PLOT DATE = 4/20/2015	DATE -	REVISED -

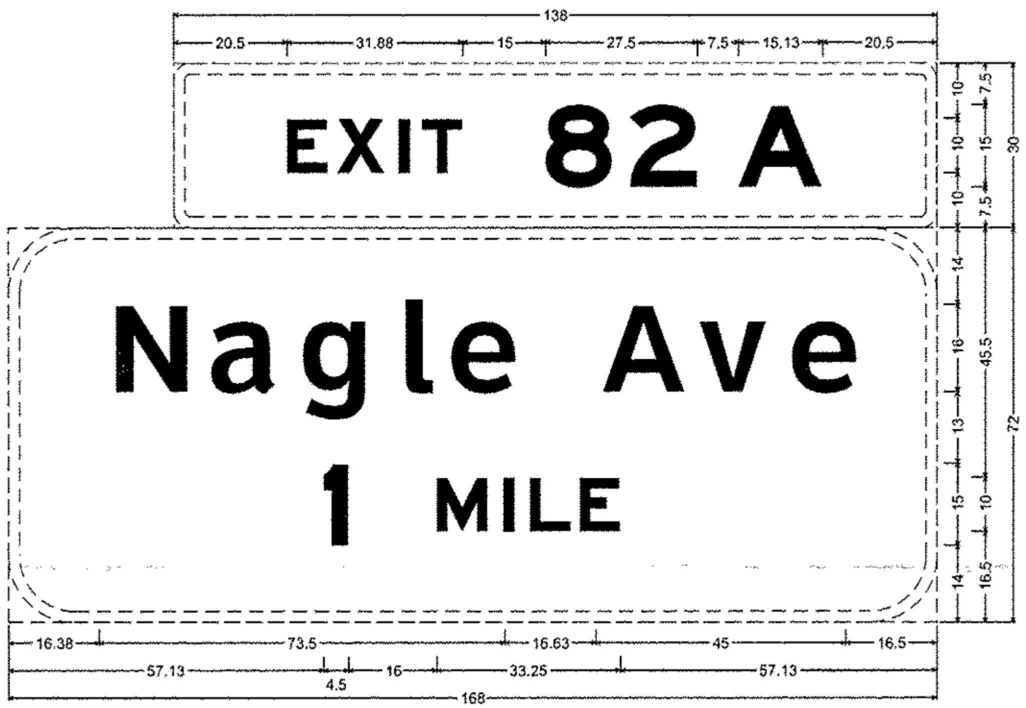
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
(PSB-16)

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DI OVH SIN STR REPL 15-10	VARIOUS	94	58
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

STRUCTURE NUMBER		1S016I090R080.8-000	
LOCATION		EXPRESSWAY	
SIZE (W x H)	EXIT PLAQUE	11.5' x 2.5'	
	MAIN PANEL	14' x 6'	
MOUNTING / TYPE		OVERHEAD / TRUSS	
MOUNTING LOC (L, M, R)		LEFT	
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	
		COLOR:	
	LEGEND / BORDER	TYPE:	ZZ
		COLOR:	WHITE
		TYPE:	
		COLOR:	



3.00" Radius, 2.00" Border, White on Green;
[EXIT] E Mod 2K 120% spacing; [82] E Mod 2K; [A] E Mod 2K;
12.00" Radius, 2.00" Border, White on Green;
[Nagle Ave] ClearviewHwy-5-W; [1] E Mod 2K; [MILE] E Mod 2K;
Table of widths and spaces.

20.50	E 7.38	1.75	X 8.63	2.50	I 2.00	2.25	T 7.38	15.00	8 12.13	3.13	2 12.13	7.50	A 15.25	20.50

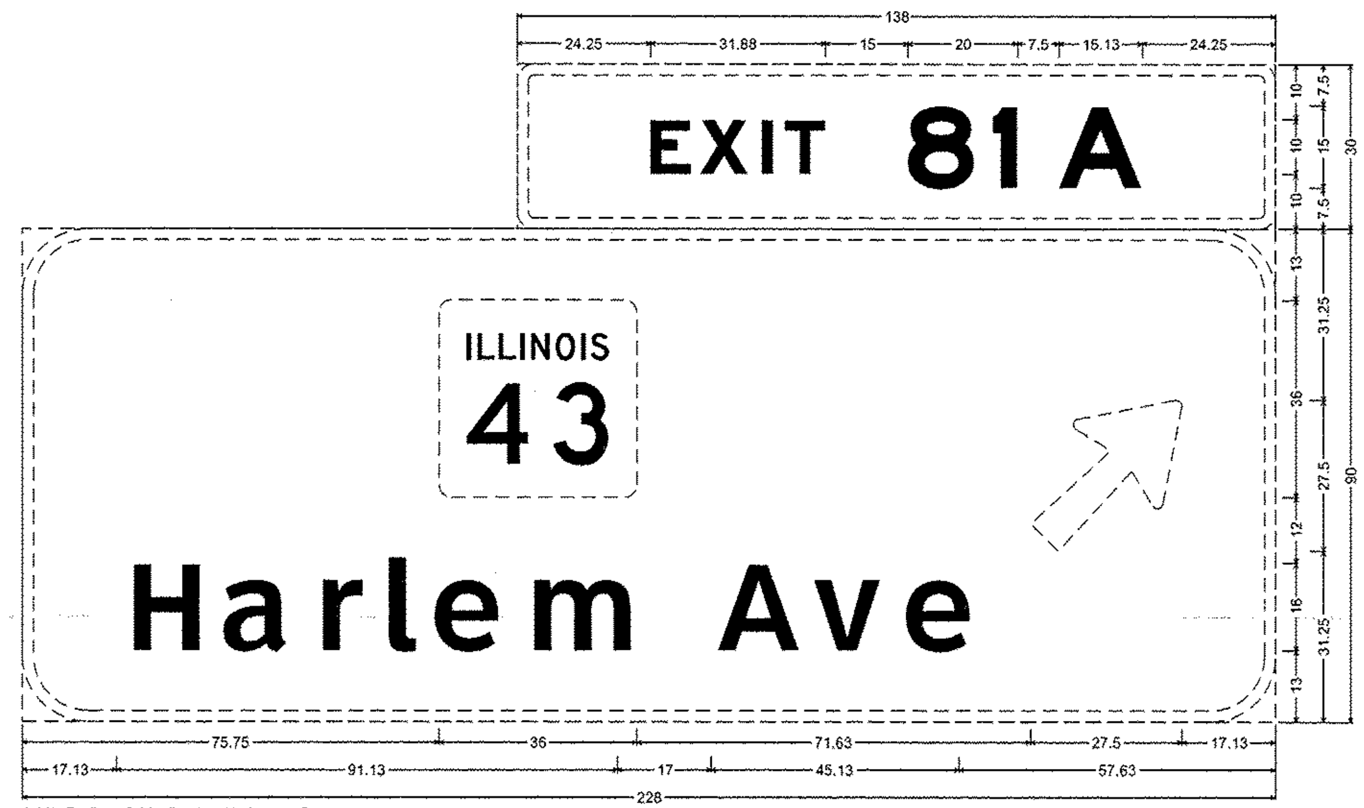
16.38	N 13.25	5.25	a 11.88	4.38	g 11.75	6.00	l 5.13	4.00	e 11.88	16.63	A 15.00	2.50	v 12.25	3.50	e 11.75	16.50

57.13	1 4.50	16.00	M 9.25	2.88	I 2.00	2.75	L 7.38	1.63	E 7.38	57.13

CONSTRUCTION NOTES

(1) CONTRACTOR SHALL REMOVE AND REINSTALL EXISTING SIGN PANEL. EXISTING SIGN PANEL DIMENSIONS ARE APPROXIMATE. QUANTITIES FOR REMOVAL AND REINSTALL SHALL BE ADJUSTED BASED ON THE ACTUAL FIELD MEASUREMENTS.

STRUCTURE NUMBER		1S016I090R080.8-000	
LOCATION		EXPRESSWAY	
SIZE (W x H)	EXIT PLAQUE	11.5' x 2.5'	
	MAIN PANEL	19' X 7.5'	
MOUNTING / TYPE		OVERHEAD / TRUSS	
MOUNTING LOC (L, M, R)		RIGHT	
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	
		COLOR:	
	LEGEND / BORDER	TYPE:	ZZ
		COLOR:	WHITE
		TYPE:	
		COLOR:	



3.00" Radius, 2.00" Border, White on Green;
[EXIT] E Mod 2K 120% spacing; [81] E Mod 2K; [A] E Mod 2K;
12.00" Radius, 2.00" Border, White on Green;
[Harlem Ave] ClearviewHwy-5-W; Arrow 160 - 35.00" 45°;
Table of widths and spaces.

24.25	E 7.38	1.75	X 8.63	2.50	I 2.00	2.25	T 7.38	15.00	B 12.13	3.25	1 4.50	7.50	A 15.25	24.25

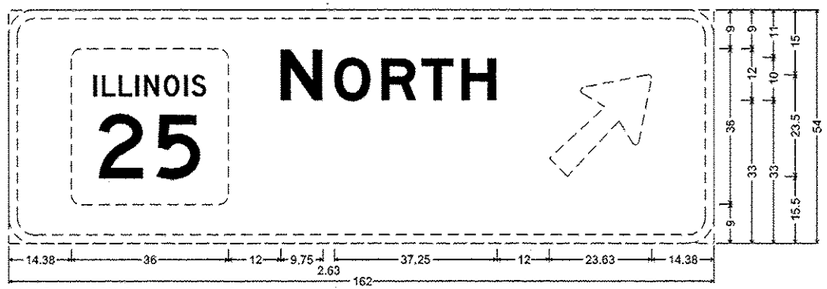
75.75	[shield] 36.00	71.63	[arrow] 27.50	17.13

17.13	H 12.25	5.25	a 11.88	5.00	r 7.50	4.50	l 5.25	4.00	e 11.88	5.25	m 18.38	17.00	A 15.13	2.38	v 12.38	3.38	e 11.88	57.63

CONSTRUCTION NOTES

(1) CONTRACTOR SHALL REMOVE AND REINSTALL EXISTING SIGN PANEL. EXISTING SIGN PANEL DIMENSIONS ARE APPROXIMATE. QUANTITIES FOR REMOVAL AND REINSTALL SHALL BE ADJUSTED BASED ON THE ACTUAL FIELD MEASUREMENTS.

STRUCTURE NUMBER		1C045U020L000.0-001	
LOCATION		ARTERIAL	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	13.5' x 4.5'	
MOUNTING / TYPE		OVERHEAD / CANTILEVER	
MOUNTING LOC (L, M, R)		-	
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	
		COLOR:	
	LEGEND / BORDER	TYPE:	ZZ
		COLOR:	WHITE
		TYPE:	
		COLOR:	



6.00" Radius, 2.00" Border, White on Green;
[NORTH] E Mod 2K; Arrow 133 - 30.00" 45°;
Table of widths and spaces.

14.38	36.00	12.00	N 9.75	2.63	O 8.38	2.38	R 8.13	1.13	T 7.38	1.75	H 8.13	12.00	23.50	14.50

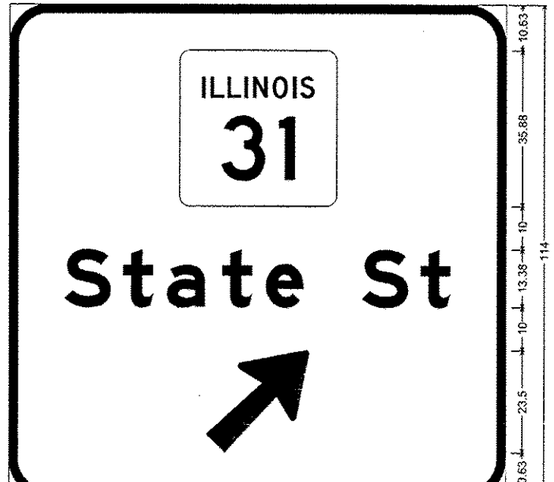
CONSTRUCTION NOTES

(1) CONTRACTOR SHALL REMOVE AND REINSTALL EXISTING SIGN PANEL. EXISTING SIGN PANEL DIMENSIONS ARE APPROXIMATE. QUANTITIES FOR REMOVAL AND REINSTALL SHALL BE ADJUSTED BASED ON THE ACTUAL FIELD MEASUREMENTS.

FILE NAME = S:\EX_WAY\TRUSS\TrussRepairContracts\46337\SignCAD\C6801015-sht-sign.dgn	USER NAME = poolechal	DESIGNED - LP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIGN PANEL DESIGN LOCATION #2
	PLOT SCALE = 40.0000 ' / in.	DRAWN - LP	REVISED -		SCALE: NTS SHEET OF SHEETS STA. TO STA.
Default	PLOT DATE = 4/20/2015	CHECKED - IP	REVISED -		
		DATE - 02/06/2015	REVISED -		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D1 OVH SIN STR REPL 15-10	VARIOUS	94	60
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			

STRUCTURE NUMBER			1C045U020L000.0-002
LOCATION			ARTERIAL
SIZE (W x H)	EXIT PLAQUE		-
	MAIN PANEL		9.5' x 9.5'
MOUNTING / TYPE			GROUND MOUNT
MOUNTING LOC (L, M, R)			-
SHEETING / COLOR	BACKGROUND	TYPE:	AP
		COLOR:	GREEN
		TYPE:	
		COLOR:	
	LEGEND / BORDER	TYPE:	AP
		COLOR:	WHITE
		TYPE:	
		COLOR:	



9.00" Radius, 2.00" Border, White on Green;
[State St] E Mod 2K; Arrow 133 - 30.00" 45°;
Table of widths and spaces.

39.00	36.00	39.00													
12.63	S 10.88	2.63	t 6.88	3.13	a 8.75	3.88	t 7.00	3.00	e 8.88	13.25	S 10.88	2.63	t 6.88	12.75	
45.25	23.50	45.25													

FILE NAME =	USER NAME = pasiechal	DESIGNED - LP	REVISED -
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Default	PLOT DATE = 4/28/2015	DATE - 02/06/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

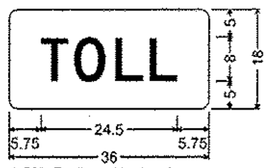
SIGN PANEL DESIGN
LOCATION #3

SCALE: NTS | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D1 OVH SIN STR REPL 15-10	VARIOUS	94	61
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			

DETAILS

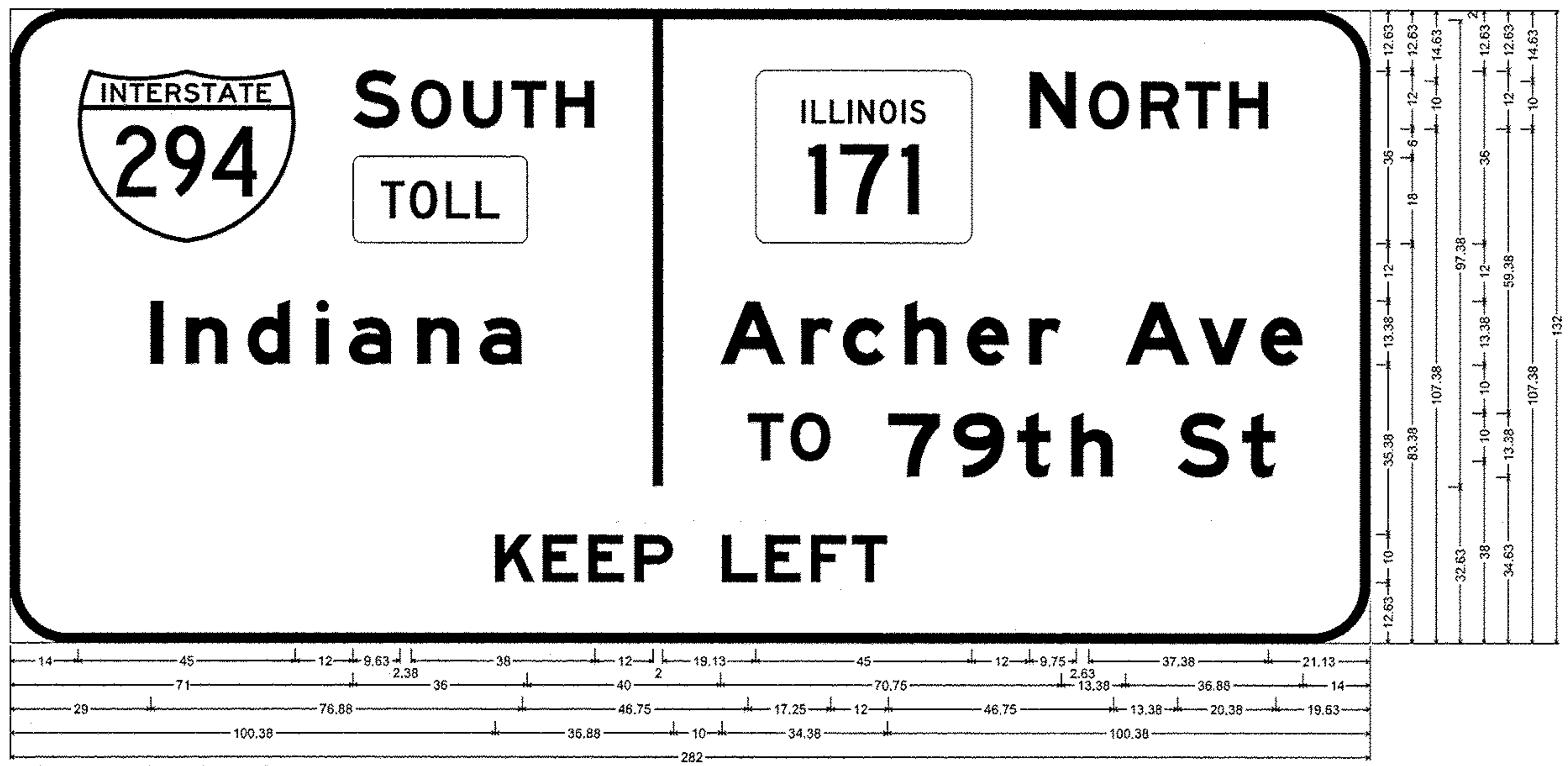
"TOLL" PLAQUE DETAIL DESIGN



1.50" Radius, No border
[TOLL] Black D 2K;
Table of widths and spaces.

5.75	T 4.88	1.13	O 5.63	1.75	L 5.00	1.13	L 5.00	5.75

STRUCTURE NUMBER		1S016U045L000.0-000	
LOCATION		ARTERIAL	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	23.5' x 11'	
MOUNTING / TYPE		OVERHEAD / TRUSS	
MOUNTING LOC (L, M, R)		LEFT	
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	
		COLOR:	
	LEGEND / BORDER	TYPE:	ZZ
		COLOR:	WHITE
		TYPE:	
		COLOR:	



12.00" Radius, 2.00" Border, White on Green;
[SOUTH] E Mod 2K; Rounded Rectangle 1.50" Radius Yellow;
[Indiana] E Mod 2K; [NORTH] E Mod 2K; [Archer Ave] E Mod 2K; [TO] E Mod 2K; [79th St] E Mod 2K; [KEEP LEFT] E Mod 2K;
Table of widths and spaces.

14.00	45.00	12.00	S 9.63	2.38	O 8.38	2.38	U 8.13	1.75	T 7.38	1.88	H 8.13	12.00	2.00	19.13	45.00	12.00	N 9.75	2.63	O 8.38	2.38	R 8.13	1.13	T 7.38	1.75	H 8.13	21.13

71.00	36.00	40.00	A 13.50	3.13	r 6.63	2.00	c 8.88	4.13	h 8.75	4.13	e 8.88	4.13	r 6.63	13.38	A 13.38	1.75	v 10.25	2.75	e 8.75	14.00

29.00	I 2.63	4.63	n 8.75	4.13	d 8.75	5.38	i 2.63	4.13	a 8.88	5.25	n 8.88	4.13	a 8.75	46.75	T 7.38	1.38	O 8.38	12.00	7 10.88	2.63	9 10.75	2.63	t 6.88	4.25	h 8.88	13.25	S 10.88	2.63	t 6.88	19.63

100.38	K 8.13	1.63	E 7.38	2.13	E 7.38	2.13	P 8.13	10.00	L 7.38	1.63	E 7.38	2.13	F 7.38	1.00	T 7.50	100.25

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Default	PLOT DATE = 4/28/2015	DATE - 02/06/2015	REVISED -

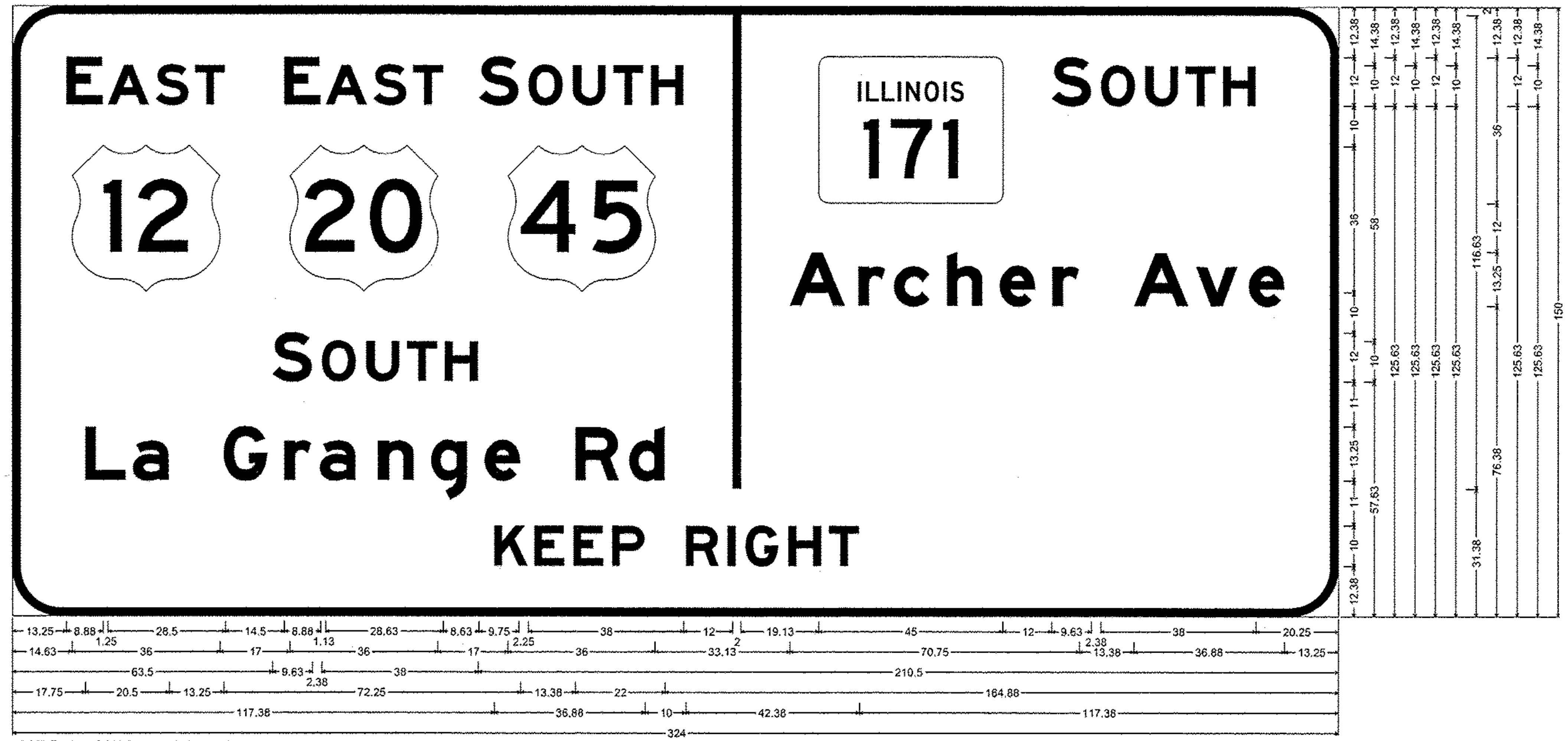
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DESIGN
LOCATION #4 (1 OF 2)

SCALE: NTS | SHEET OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DI OVH SIN STR REPL 15-10	VARIOUS	94	62
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			

STRUCTURE NUMBER		1S016U045L000.0-000	
LOCATION		ARTERIAL	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	27' x 12.5'	
MOUNTING / TYPE		OVERHEAD / TRUSS	
MOUNTING LOC (L,M,R)		RIGHT	
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	
		COLOR:	
	LEGEND / BORDER	TYPE:	ZZ
		COLOR:	WHITE
		TYPE:	
		COLOR:	



12.00" Radius, 2.00" Border, White on Green;
[EAST] E Mod 2K; [EAST] E Mod 2K; [SOUTH] E Mod 2K; [SOUTH] E Mod 2K; [La Grange Rd] E Mod 2K; [SOUTH] E Mod 2K; [Archer Ave] E Mod 2K; [KEEP RIGHT] E Mod 2K;
Table of widths and spaces.

	E		A		S		T		E		A		S		T		S		O		U		T		H		I		(171)		S		O		U		T		H	
13.25	8.88	1.25	10.00	1.50	8.13	1.50	7.38	14.38	8.88	1.25	10.13	1.50	8.13	1.50	7.38	8.63	9.75	2.25	8.38	2.50	8.00	1.88	7.38	1.75	8.13	12.00	2.00	19.00	45.00	12.00	9.75	2.25	8.50	2.38	8.13	1.75	7.38	1.88	8.00	20.25

	(12)		(20)		(45)		A		r		c		h		e		r		A		v		e	
14.63	36.00	17.00	36.00	17.00	36.00	33.13	13.38	3.25	6.63	2.00	8.88	4.13	8.75	4.13	8.75	4.13	6.75	13.25	13.50	1.75	10.25	2.63	8.88	13.25

	S		O		U		T		H	
63.50	9.63	2.38	8.38	2.38	8.13	1.75	7.38	1.88	8.13	210.50

	L		a		G		r		a		n		g		e		R		d	
17.75	9.88	1.75	8.88	13.25	10.88	4.00	6.63	2.00	8.75	5.38	8.75	4.13	8.88	4.13	8.75	13.38	10.75	2.38	8.88	164.88

	K		E		E		P		R		I		G		H		T	
117.38	8.13	1.63	7.38	2.13	7.38	2.13	8.13	10.00	8.00	2.13	2.00	2.38	8.13	2.38	8.13	1.75	7.50	117.25

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		CHECKED - IP	REVISED -
Default	PLOT DATE = 4/28/2015	DATE - 02/06/2015	REVISED -

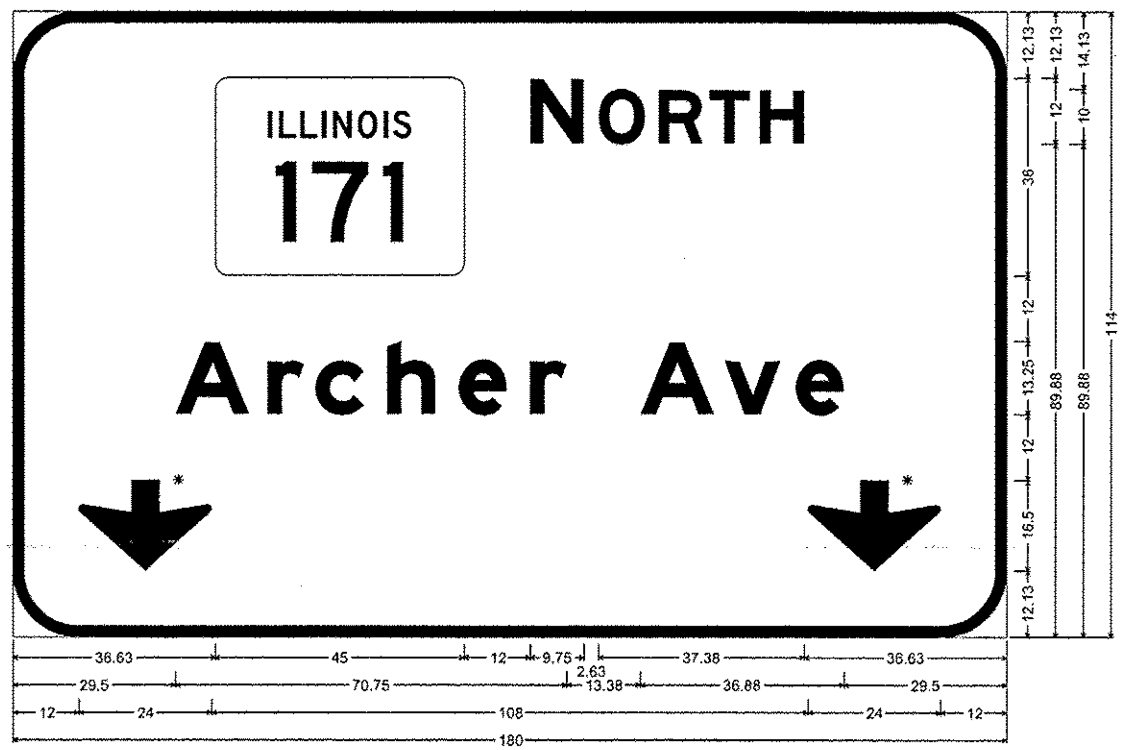
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DESIGN
LOCATION #4 (2 OF 2)

SCALE: NTS | SHEET OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DI OVH SIN STR REPL 15-10	VARIOUS	94	63
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			

STRUCTURE NUMBER		1S016I171R000.0-004	
LOCATION		ARTERIAL	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	15' x 9.5'	
MOUNTING / TYPE		OVERHEAD / TRUSS	
MOUNTING LOC (L,M,R)		LEFT	
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	
		COLOR:	
	LEGEND / BORDER	TYPE:	ZZ
		COLOR:	WHITE
		TYPE:	
		COLOR:	



12.00" Radius, 2.00" Border, White on Green;
[NORTH] E Mod 2K; [Archer Ave] E Mod 2K; Down Arrow Custom - 16.50" 270°; Down Arrow Custom - 16.50" 270°;
Table of widths and spaces.

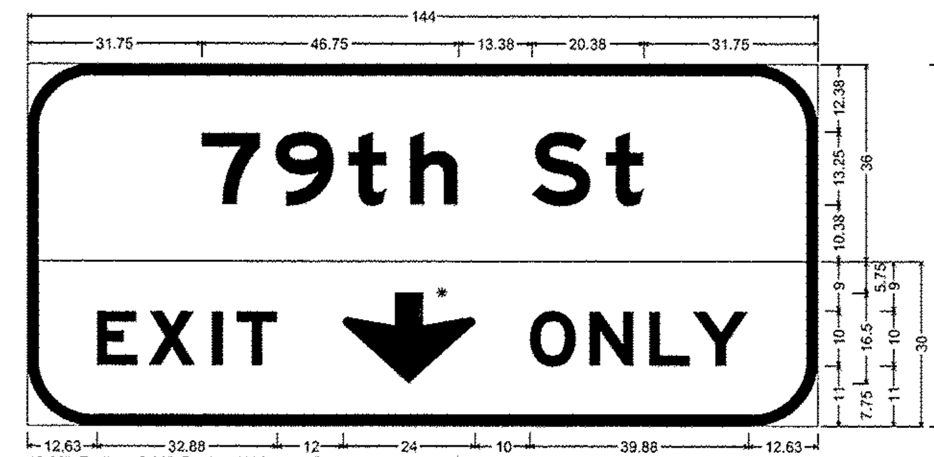
	(shield)		N		O		R		T		H	
36.63	45.00	12.00	9.75	2.63	8.38	2.50	8.00	1.13	7.38	1.88	8.00	36.75

	A		r		c		h		e		r		A		v		e	
29.50	13.38	3.25	6.63	2.00	8.88	4.13	8.75	4.13	8.88	4.13	6.63	13.25	13.50	1.75	10.25	2.75	8.75	29.50

	(arrow)		(arrow)	
12.00	24.00	108.00	24.00	12.00

* ARROWS SHALL BE DEMOUNTABLE

STRUCTURE NUMBER		1S016I171R000.0-004	
LOCATION		ARTERIAL	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	12' x 5.5'	
MOUNTING / TYPE		OVERHEAD / TRUSS	
MOUNTING LOC (L,M,R)		RIGHT	
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	ZZ
		COLOR:	YELLOW
	LEGEND / BORDER	TYPE:	ZZ
		COLOR:	WHITE
		TYPE:	
		COLOR:	BLACK



12.00" Radius, 2.00" Border, White on Green;
[79th St] E Mod 2K;
12.00" Radius, 2.00" Border, Black on Yellow;
[EXIT] E Mod 2K 140% spacing; Down Arrow Custom - 16.50" 270°; [ONLY] E Mod 2K;
Table of widths and spaces.

	7		9		t		h		S		t	
31.75	10.75	2.75	10.75	2.50	7.00	4.25	8.75	13.38	10.75	2.75	6.88	31.75

	E		X		I		T		(arrow)		O		N		L		Y	
12.63	7.38	2.00	8.75	2.88	2.00	2.50	7.38	12.00	24.00	10.00	8.50	2.38	8.00	2.88	7.38	0.63	10.13	12.63

* ARROWS SHALL BE DEMOUNTABLE

FILE NAME > S:\EX_WAY\TRUSS\TrussRepairContracts\46337\SignCAD\C6001015-sht-sign.dgn	USER NAME : pociechal	DESIGNED - LP	REVISED - LP 04/21/2015
		DRAWN - LP	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - IP	REVISED -
Default	PLOT DATE = 4/28/2015	DATE - 02/06/2015	REVISED -

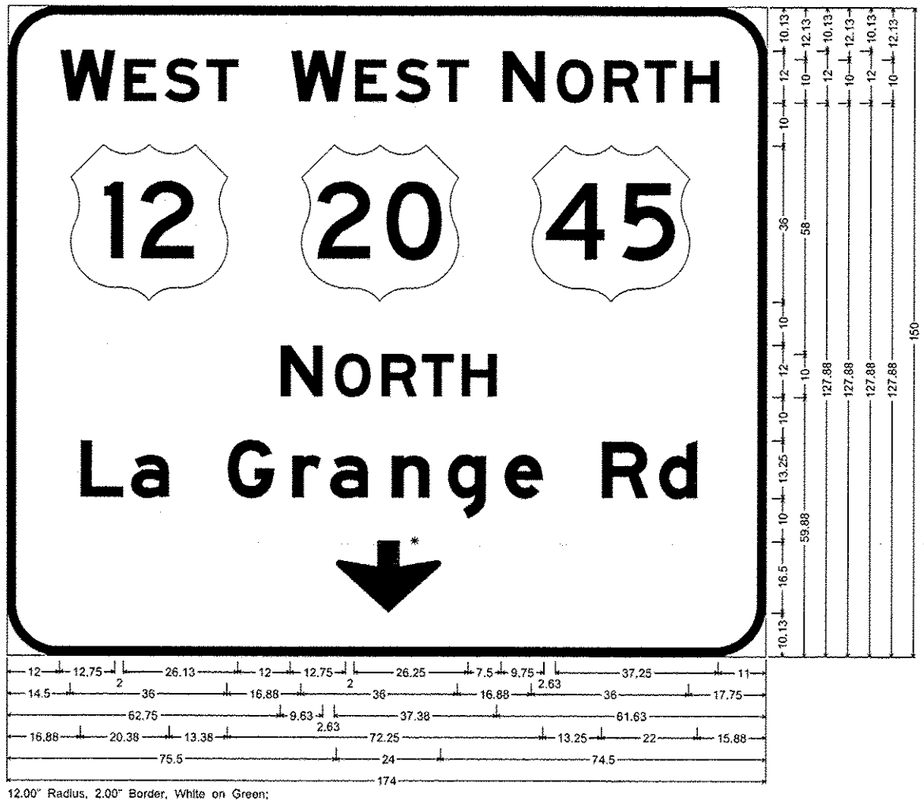
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DESIGN
LOCATION #5

SCALE: NTS | SHEET OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	01 OVH SIN STR REPL 15-10	VARIOUS	94	64
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			

STRUCTURE NUMBER		1S016S171L000.0-002	
LOCATION		ARTERIAL	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	14.5' x 12.5'	
MOUNTING / TYPE		OVERHEAD / TRUSS	
MOUNTING LOC (L, M, R)		LEFT	
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	
		COLOR:	
	LEGEND / BORDER	TYPE:	ZZ
		COLOR:	WHITE
		TYPE:	
		COLOR:	



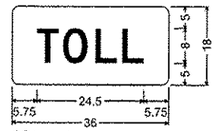
12.00" Radius, 2.00" Border, White on Green;
[WEST] E Mod 2K; [WEST] E Mod 2K; [NORTH] E Mod 2K; [NORTH] E Mod 2K; [La Grange Rd] E Mod 2K;
Down Arrow Custom - 16.50" 270°;
Table of widths and spaces.

12.00	W 12.75	2.00	E 7.38	1.75	S 8.13	1.50	T 7.38	12.00	W 12.75	2.00	E 7.38	1.75	S 8.13	1.50	T 7.38				
	7.63	N 9.63	2.75	O 8.38	2.38	R 8.13	1.00	T 7.50	1.75	H 8.13	11.00								
14.50	20 36.00	16.88	20 36.00	16.88	45 36.00	17.75													
62.75	N 9.63	2.63	O 8.50	2.38	R 8.13	1.00	T 7.50	1.75	H 8.13	61.63									
16.88	L 9.88	1.75	a 8.75	13.38	G 10.75	4.00	r 6.63	2.00	a 8.88	5.25	n 8.88	4.13	g 8.75	4.13	e 8.88	13.25	R 10.88	2.38	d 8.75	15.88
75.50	24.00	74.50																	

* ARROWS SHALL BE DEMOUNTABLE

DETAILS

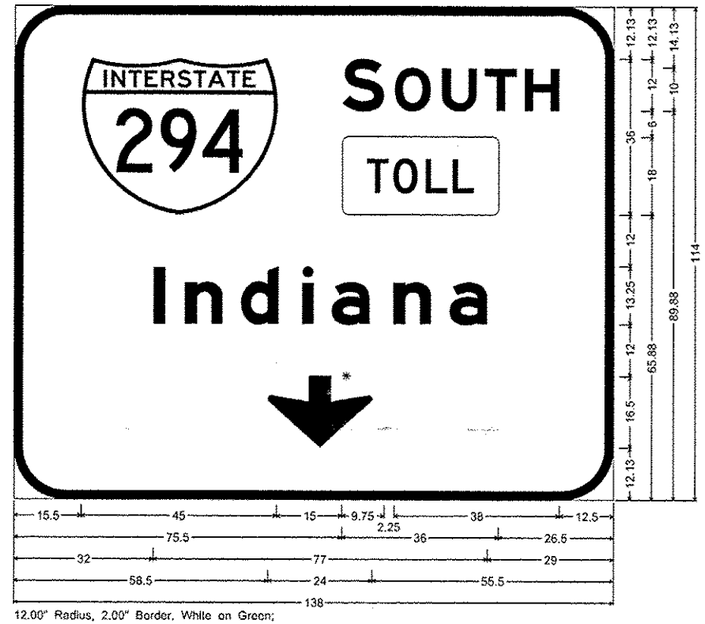
"TOLL" PLAQUE DETAIL DESIGN



1.50" Radius, No border
[TOLL] Black D 2K;
Table of widths and spaces.

5.75	T 4.88	1.13	O 5.63	1.75	L 5.00	1.13	L 5.00	5.75

STRUCTURE NUMBER		1S016S171L000.0-002	
LOCATION		ARTERIAL	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	11.5' x 9.5'	
MOUNTING / TYPE		OVERHEAD / TRUSS	
MOUNTING LOC (L, M, R)		RIGHT	
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	
		COLOR:	
	LEGEND / BORDER	TYPE:	ZZ
		COLOR:	WHITE
		TYPE:	
		COLOR:	



12.00" Radius, 2.00" Border, White on Green;
[SOUTH] E Mod 2K; Rounded Rectangle 1.50" Radius Yellow;
[Indiana] E Mod 2K; Down Arrow Custom - 16.50" 270°;
Table of widths and spaces.

15.50	294 45.00	15.00	S 9.75	2.25	O 8.38	2.38	U 8.13	1.88	T 7.38	1.75	H 8.13	12.50							
75.50	36.00	26.50																	
32.00	I 2.75	4.50	n 8.75	4.13	d 8.88	5.25	I 2.75	4.13	a 8.75	5.38	n 8.75	4.13	a 8.88	29.00					
58.50	24.00	55.50																	

* ARROWS SHALL BE DEMOUNTABLE

FILE NAME =	USER NAME = pociechal	DESIGNED - LP	REVISED - LP 04/21/2015
S:\EX_WAY\TRUSS\TrussRepairContracts\46337\SignCAD\C6001015-sht-sign.dgn		DRAWN - LP	REVISED -
Default	PLOT SCALE = 40.0000 ' / in.	CHECKED - JP	REVISED -
	PLOT DATE = 4/20/2015	DATE - 02/06/2015	REVISED -

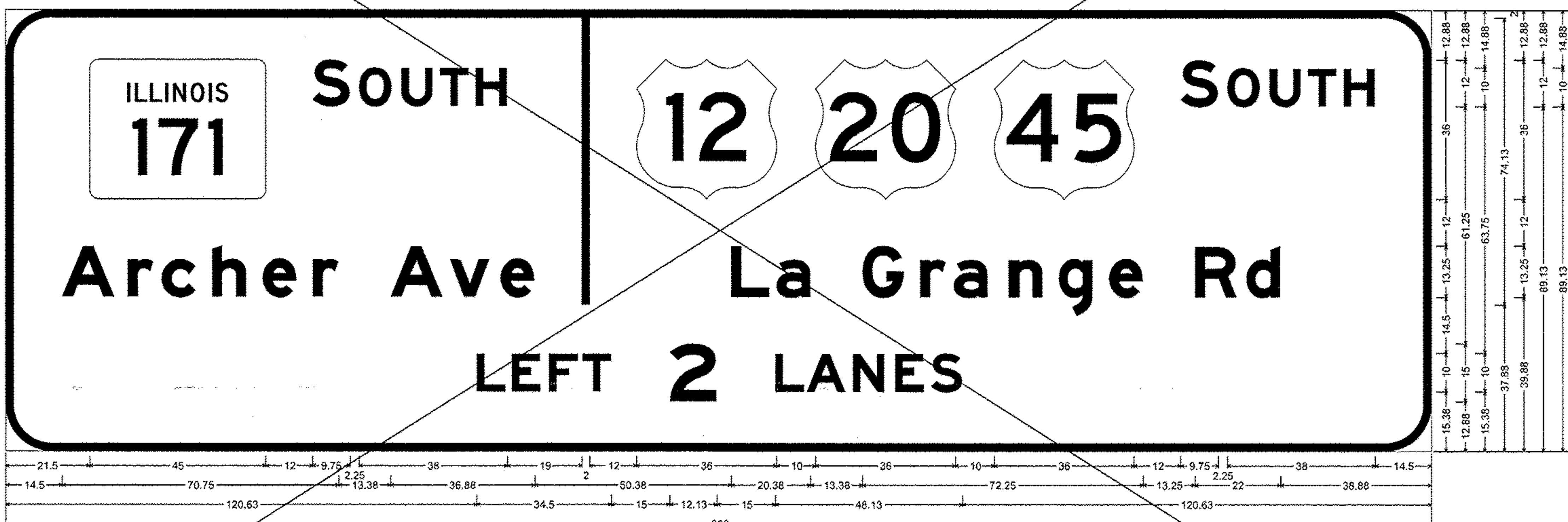
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DESIGN
LOCATION #6

SCALE: NTS | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DI OVH SIN STR REPL 15-10	VARIOUS	94	65
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			

STRUCTURE NUMBER	1S016S171L000.0-000
LOCATION	ARTERIAL
SIZE (W x H) — EXIT PLAQUE	-
SIZE (W x H) — MAIN PANEL	30.5' x 9.5'
MOUNTING / TYPE	OVERHEAD / TRUSS
MOUNTING LOC (L,M,R)	LEFT
SHEETING / COLOR — BACKGROUND — TYPE:	ZZ
SHEETING / COLOR — BACKGROUND — COLOR:	GREEN
SHEETING / COLOR — BACKGROUND — TYPE:	
SHEETING / COLOR — BACKGROUND — COLOR:	
SHEETING / COLOR — LEGEND / BORDER — TYPE:	ZZ
SHEETING / COLOR — LEGEND / BORDER — COLOR:	WHITE
SHEETING / COLOR — LEGEND / BORDER — TYPE:	
SHEETING / COLOR — LEGEND / BORDER — COLOR:	



12.00" Radius, 2.00" Border, White on Green;
[SOUTH] E Mod 2K; [Archer Ave] E Mod 2K; [SOUTH] E Mod 2K; [La Grange Rd] E Mod 2K; [LEFT] E Mod 2K; [2] E Mod 2K; [LANES] E Mod 2K;
Table of widths and spaces.

	171		S		O		U		T		H		I		12		20		45		S		O		U		T		H	
21.50	45.00	12.00	9.75	2.25	8.38	2.38	8.13	1.75	7.50	1.75	8.13	19.00	2.00	12.00	36.00	10.00	36.00	10.00	36.00	12.00	9.75	2.25	8.38	2.50	8.00	1.88	7.38	1.75	8.13	14.50

	A		r		c		h		e		r		A		v		e		L		a		G		r		a		n		g		e		R		d	
14.50	13.38	3.25	6.63	2.00	8.88	4.13	8.75	4.13	8.75	4.13	6.75	13.25	13.50	1.75	10.25	2.75	8.75	50.38	9.88	1.63	8.88	13.25	10.88	4.00	6.63	2.00	8.75	5.38	8.75	4.25	8.75	4.13	8.75	13.38	10.75	2.50	8.75	38.75

	L		E		F		T		2		L		A		N		E		S	
120.63	7.50	1.50	7.50	2.00	7.50	1.00	7.50	15.00	12.13	15.00	7.38	0.63	10.00	1.88	8.13	2.75	7.38	1.88	8.00	120.75

LOCATION REMOVED FROM THE PLANS

FILE NAME = S:\EX_WAY\TRUSS\TrussRepairContracts\46337\SignCAD\C0001015-sht-sign.dgn	USER NAME = pociechal	DESIGNED - LP	REVISED - LP 04/21/2015
	PLOT SCALE = 40.0000 ' / in.	DRAWN - LP	REVISED -
Default	PLOT DATE = 4/28/2015	CHECKED - IP	REVISED -
		DATE - 02/06/2015	REVISED -

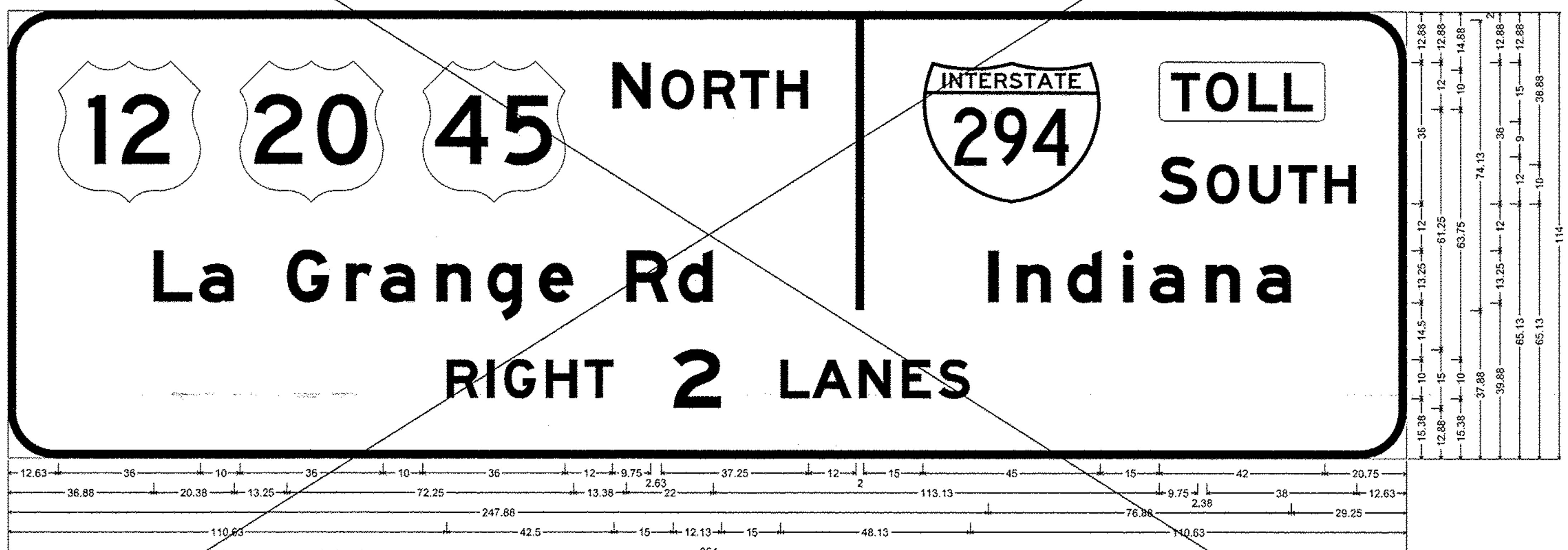
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DESIGN
LOCATION #7 (1 OF 2)

SCALE: NTS | SHEET OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D1 OVH SIN STR REPL 15-10	VARIOUS	94	66
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			

STRUCTURE NUMBER		1S016S171L000.0-000	
LOCATION		ARTERIAL	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	29.5' x 9.5'	
MOUNTING / TYPE		OVERHEAD / TRUSS	
MOUNTING LOC (L,M,R)		RIGHT	
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	
		COLOR:	
	LEGEND / BORDER	TYPE:	ZZ
		COLOR:	WHITE
		TYPE:	
		COLOR:	



12.00" Radius, 2.00" Border, White on Green;
[NORTH] E Mod 2K; [La Grange Rd] E Mod 2K; Rounded Rectangle 1.50" Radius Yellow;
[SOUTH] E Mod 2K; [Indiana] E Mod 2K; [RIGHT] E Mod 2K; [2] E Mod 2K; [LANES] E Mod 2K;
Table of widths and spaces.

12.63	(12) 36.00	10.00	(20) 36.00	10.00	(45) 36.00	12.00	N 9.75	2.63	O 8.38	2.38	R 8.13	1.13	T 7.38	1.75	H 8.13	12.00	2.00	15.00	(294) 45.00	15.00	42.00	20.75

36.88	L 9.75	1.75	a 8.88	13.25	G 10.88	4.00	r 6.63	2.00	a 8.75	5.38	n 8.75	4.13	g 8.88	4.13	e 8.75	13.38	R 10.75	2.38	d 8.88	113.13	S 9.75	2.25	O 8.38	2.50	U 8.00	1.88	T 7.38	1.75	H 8.13	12.63

247.88	I 2.63	4.50	n 8.88	4.13	d 8.75	5.38	i 2.63	4.13	a 8.88	5.25	n 8.88	4.13	a 8.75	29.25

110.63	R 8.13	2.13	I 2.00	2.38	G 8.13	2.38	H 8.13	1.75	T 7.38	15.00	2 12.13	15.00	L 7.50	0.50	A 10.13	1.88	N 8.00	2.88	E 7.38	1.75	S 8.13	110.63

LOCATION REMOVED FROM THE PLANS

FILE NAME = S:\CX,WAY\TRUSS\TrussRepairContracts\46337\SignCAD\CG001015-sht-sign.dgn	USER NAME = pociechol	DESIGNED - LP	REVISED - LP 04/21/2015
		DRAWN - LP	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - IP	REVISED -
Default	PLOT DATE = 4/28/2015	DATE - 02/06/2015	REVISED -

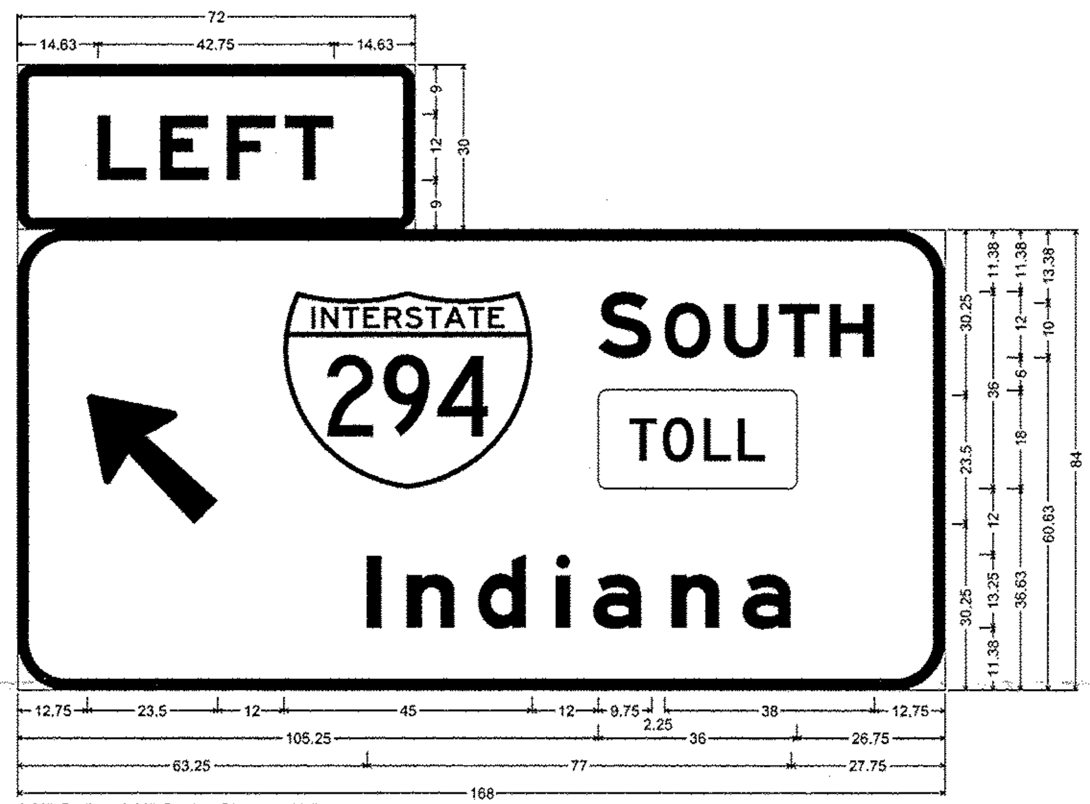
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DESIGN
LOCATION #7 (2 OF 2)

SCALE: NTS | SHEET OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	01 OVH SIN STR REPL 15-10	VARIOUS	94	67
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			

STRUCTURE NUMBER		1S016S171R000.0-003	
LOCATION		ARTERIAL	
SIZE (W x H)	EXIT PLAQUE	6' x 2.5'	
	MAIN PANEL	14' x 7'	
MOUNTING / TYPE		OVERHEAD / TRUSS	
MOUNTING LOC (L,M,R)		LEFT	
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	ZZ
		COLOR:	YELLOW
	LEGEND / BORDER	TYPE:	ZZ
		COLOR:	WHITE
		TYPE:	
		COLOR:	BLACK



3.00" Radius, 2.00" Border, Black on Yellow;
[LEFT] E Mod 2K 125% spacing;
9.00" Radius, 2.00" Border, White on Green;
Arrow 133 - 30.00" 135°; [SOUTH] E Mod 2K; Rounded Rectangle 1.50" Radius Yellow;
[Indiana] E Mod 2K;
Table of widths and spaces.

	L		E		F		T	
14.63	8.88	2.38	8.88	3.13	8.88	1.75	8.88	14.63

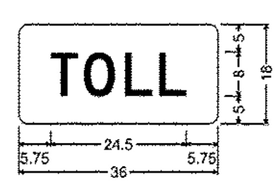
	(arrow)		(shield)		S		O		U		T		H	
12.75	23.50	12.00	45.00	12.00	9.75	2.25	8.38	2.50	8.00	1.88	7.38	1.75	8.13	12.75

	(rectangle)	
105.25	36.00	26.75

	I		n		d		i		a		n		a	
63.25	2.75	4.50	8.75	4.13	8.88	5.25	2.75	4.13	8.75	5.38	8.75	4.13	8.88	27.75

DETAILS

"TOLL" PLAQUE DETAIL DESIGN



1.50" Radius, No border
[TOLL] Black D 2K;
Table of widths and spaces.

	T		O		L		L	
5.75	4.88	1.13	5.63	1.75	5.00	1.13	5.00	5.75

STRUCTURE NUMBER		1S016S171R000.0-003	
LOCATION		ARTERIAL	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	12.5' x 9'	
MOUNTING / TYPE		OVERHEAD / TRUSS	
MOUNTING LOC (L,M,R)		MIDDLE	
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	
		COLOR:	
	LEGEND / BORDER	TYPE:	ZZ
		COLOR:	WHITE
		TYPE:	
		COLOR:	

12.00" Radius, 2.00" Border, White on Green;
[NORTH] E Mod 2K; [Archer Ave] E Mod 2K; [AHEAD] E Mod 2K;
Table of widths and spaces.

	(shield)		N		O		R		T		H	
21.63	45.00	12.00	9.75	2.63	8.38	2.50	8.00	1.13	7.38	1.88	8.00	21.75

	A		r		c		h		e		r		A		v		e	
14.50	13.38	3.25	6.63	2.00	8.88	4.13	8.75	4.13	8.88	4.13	6.63	13.25	13.50	1.75	10.25	2.75	8.75	14.50

	A		H		E		A		D	
49.38	10.13	1.75	8.13	2.75	7.38	1.13	10.13	1.75	8.13	49.38

FILE NAME :	USER NAME : poolechal	DESIGNED - LP	REVISED - LP 04/21/2015
S:\EX_WAY\TRUSS\TrussRepairContracts\46337\SignCAD\C6001015-sht-sign.dgn		DRAWN - LP	REVISED -
	PLOT SCALE : 40.0000 ' / in.	CHECKED - IP	REVISED -
Default	PLOT DATE : 4/28/2015	DATE - 02/06/2015	REVISED -

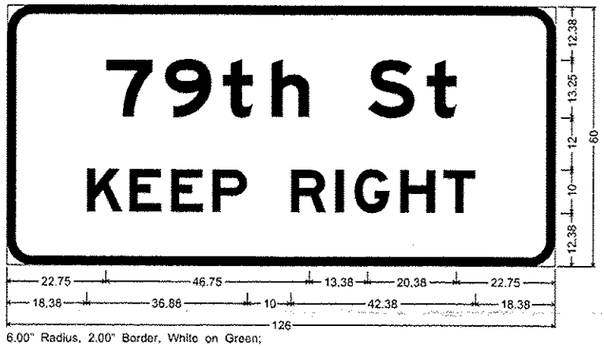
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DESIGN
LOCATION #8 (1 OF 2)

SCALE: NTS | SHEET OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D1 OVH SIN STR REPL 15-10	VARIOUS	94	68
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			

STRUCTURE NUMBER			1S016S171R000.0-003
LOCATION			ARTERIAL
SIZE (W x H)	EXIT PLAQUE		-
	MAIN PANEL		10.5' x 5'
MOUNTING / TYPE			OVERHEAD / TRUSS
MOUNTING LOC (L, M, R)			RIGHT
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	
		COLOR:	
	LEGEND / BORDER	TYPE:	ZZ
		COLOR:	WHITE
		TYPE:	
		COLOR:	



6.00" Radius, 2.00" Border, White on Green;
[79th St] E Mod 2K; [KEEP RIGHT] E Mod 2K;
Table of widths and spaces.

	7		9		t		n		S		t		
22.75	10.75	2.75	10.75	2.50	7.00	4.25	8.75	13.38	10.75	2.75	6.88	22.75	
K		E		E		P							
18.38	8.13	1.63	7.38	2.13	7.38	2.13	8.13						
	10.00	R		I		G		H		T			
		8.00	2.13	2.00	2.38	8.13	2.38	8.13	1.75	7.50	18.25		

FILE NAME = S:\EX_WAY\TRUSS\TrussRepairContracts\46337\SignCAD\E6001015-sht-sign.dgn	USER NAME = pacischal	DESIGNED - LP	REVISED -
		DRAWN - LP	REVISED -
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Default	PLOT DATE = 4/28/2015	DATE - 02/06/2015	REVISED -

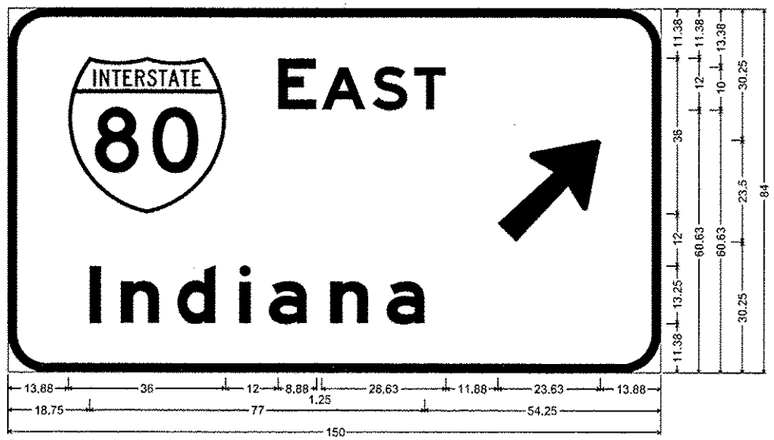
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DESIGN
LOCATION #8 (2 OF 2)

SCALE: NTS | SHEET | OF | SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D1 OVH SIN STR REPL 15-10	VARIOUS	94	69
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			

STRUCTURE NUMBER		1C0991080R148.9-000	
LOCATION		ARTERIAL	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	12.5' x 7'	
MOUNTING / TYPE		OVERHEAD / CANTILEVER	
MOUNTING LOC (L, M, R)		-	
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	
		COLOR:	
	LEGEND / BORDER	TYPE:	ZZ
		COLOR:	WHITE
		TYPE:	
		COLOR:	



9.00" Radius, 2.00" Border, White on Green;
[EAST] E Mod 2K; [Indiana] E Mod 2K; Arrow 133 - 30.00° 45°;
Table of widths and spaces.

13.88	36.00	12.00	E 8.88	1.25	A 10.13	1.38	S 8.13	1.50	T 7.38	12.00	23.63	13.88	
18.75	I 2.63	4.63	n 8.75	4.13	d 8.75	5.38	i 2.63	4.13	a 8.88	5.25	n 8.88	4.13	a 8.75	54.38

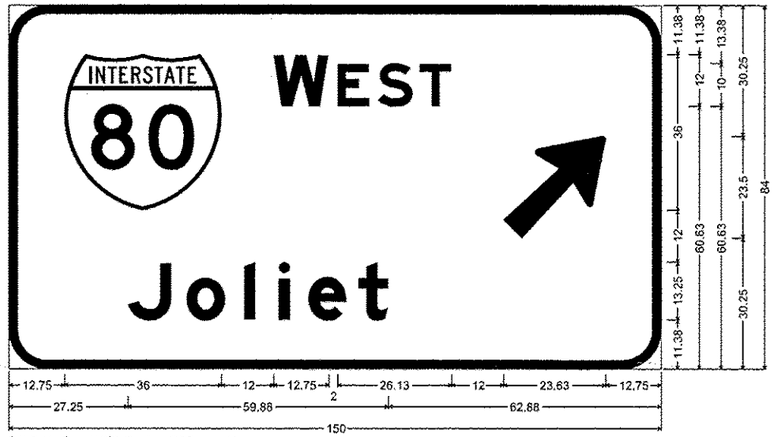
FILE NAME = S:\EX_WAY\TRUSS\TrussRepairCont-octs\46337\SignCAD\C6001015-sht-sign.dgn	USER NAME = pociechal	DESIGNED - LP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - LP	REVISED -	
Default	PLOT SCALE = 40.0000 ' / in.	CHECKED - IP	REVISED -	
	PLOT DATE = 4/20/2015	DATE - 02/06/2015	REVISED -	

SIGN PANEL DESIGN
LOCATION #9

SCALE: NTS | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	01 OVH SIN STR REPL 15-10	VARIOUS	94	70
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			

STRUCTURE NUMBER		1C016I080L148.0-000
LOCATION		ARTERIAL
SIZE (W x H)	EXIT PLAQUE	-
	MAIN PANEL	12.5' x 7'
MOUNTING / TYPE		OVERHEAD / CANTILEVER
MOUNTING LOC (L, M, R)		-
SHEETING / COLOR	BACKGROUND	TYPE: ZZ
		COLOR: GREEN
		TYPE:
		COLOR:
	LEGEND / BORDER	TYPE: ZZ
		COLOR: WHITE
		TYPE:
		COLOR:



9.00" Radius, 2.00" Border, White on Green;
[WEST] E Mod 2K; [Joliet] E Mod 2K; Arrow 133 - 30.00° 45°;
Table of widths and spaces.

12.75	36.00	12.00	W 12.75	2.00	E 7.38	1.75	S 8.13	1.50	T 7.38	12.00	23.63	12.75

27.25	J 10.13	3.38	o 9.13	4.13	I 2.63	5.38	i 2.63	4.13	e 8.75	2.75	t 6.88	62.88

FILE NAME = S:\EX_WAY\TRUSS\TrussRepairContracts\46337\Sign-CAD\C6801015-sht-sign.dgn	USER NAME = pasrechal	DESIGNED - LP	REVISED -
		DRAWN - LP	REVISED -
	PLOT SCALE = 48.0000 ' / in.	CHECKED - IP	REVISED -
Default	PLOT DATE = 4/28/2015	DATE - 02/06/2015	REVISED -

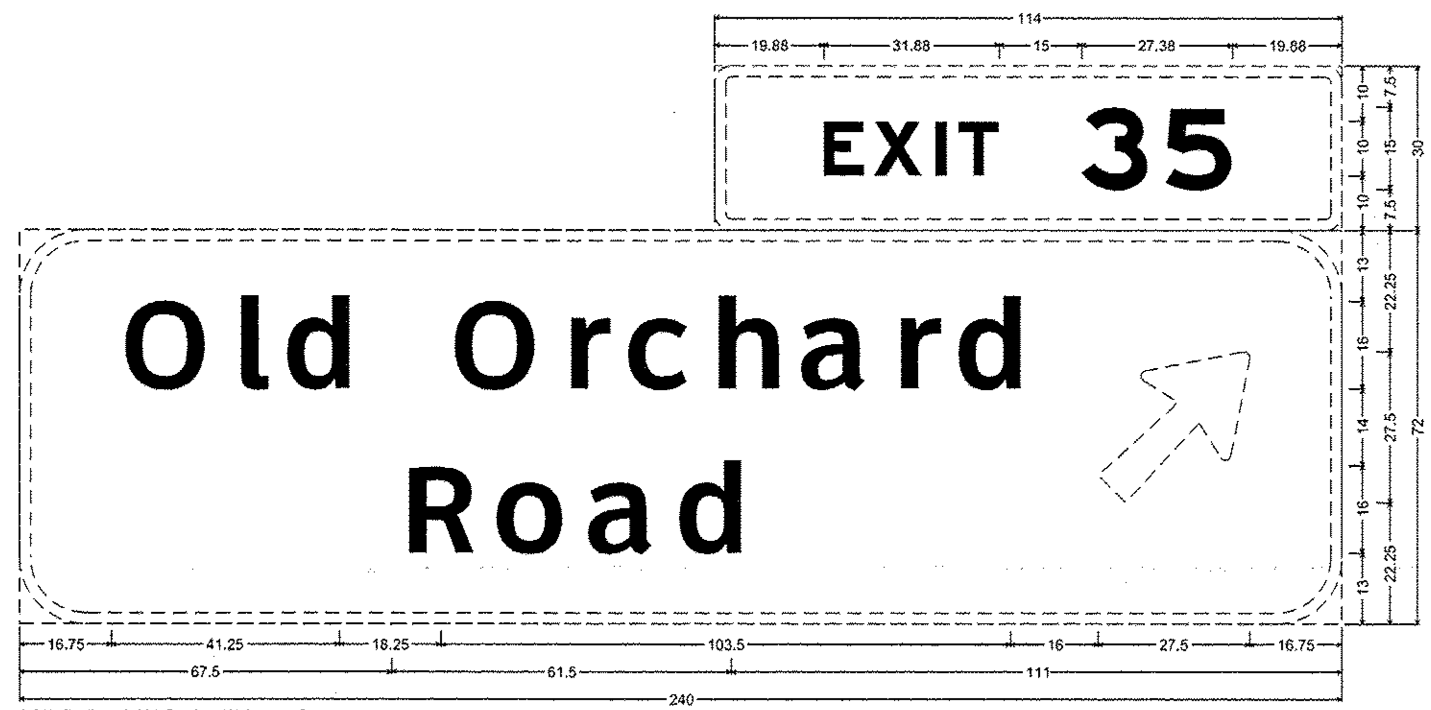
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DESIGN
LOCATION #10

SCALE: NTS | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DI OVH SIN STR REPL 15-10	VARIOUS	94	71
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			

STRUCTURE NUMBER		1C0161094R035.5-000	
LOCATION		EXPRESSWAY	
SIZE (W x H)	EXIT PLAQUE	9.5' x 2.5'	
	MAIN PANEL	20' x 6'	
MOUNTING / TYPE		OVERHEAD / CANTILEVER	
MOUNTING LOC (L, M, R)		-	
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	
		COLOR:	
	LEGEND / BORDER	TYPE:	ZZ
		COLOR:	WHITE
		TYPE:	
		COLOR:	



3.00" Radius, 2.00" Border, White on Green;
[EXIT] E Mod 2K 120% spacing; [35] E Mod 2K;
12.00" Radius, 2.00" Border, White on Green;
[Old Orchard] ClearviewHwy-5-W; [Road] ClearviewHwy-5-W; Arrow 160 - 35.00" 45°;
Table of widths and spaces.

	E		X		I		T		3		5	
19.88	7.38	1.63	8.75	2.50	2.00	2.13	7.38	15.00	12.25	3.13	12.13	19.88

	O		l		d		O		r		c		h		a		r		d		⇗	
16.75	14.88	5.50	5.13	4.13	11.63	18.25	14.88	5.50	7.50	4.00	10.88	4.63	11.25	4.88	12.00	5.00	7.50	3.88	11.63	16.00	27.50	16.75

	R		o		a		d	
67.50	12.00	4.63	12.50	4.50	11.88	4.38	11.63	111.00

CONSTRUCTION NOTES

① CONTRACTOR SHALL REMOVE AND REINSTALL EXISTING SIGN PANEL. EXISTING SIGN PANEL DIMENSIONS ARE APPROXIMATE. QUANTITIES FOR REMOVAL AND REINSTALL SHALL BE ADJUSTED BASED ON THE ACTUAL FIELD MEASUREMENTS.

FILE NAME =	USER NAME = paojechol	DESIGNED - LP	REVISED - LP 04/21/2015
S:\EX_WAY\TRUSS\TrussRepairContracts\46337\SignCAD\C6001015-sht-sign.dgn		DRAWN - LP	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - IP	REVISED -
Default	PLOT DATE = 4/28/2015	DATE - 02/06/2015	REVISED -

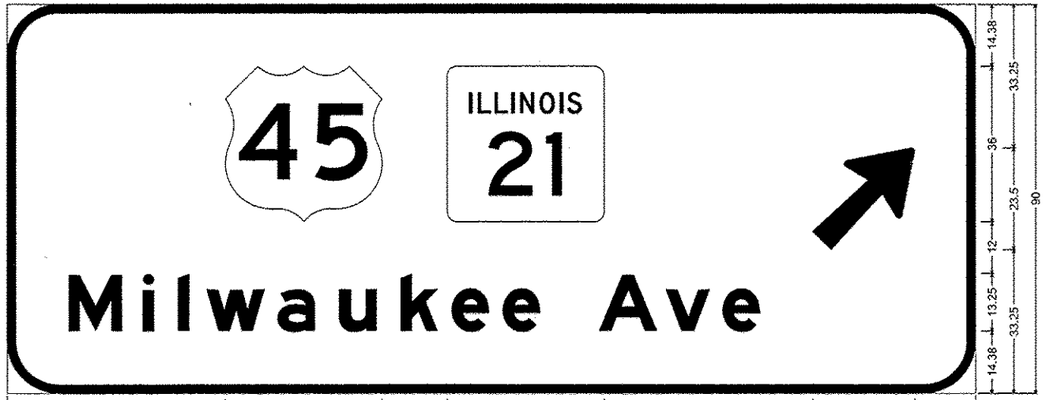
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DESIGN
LOCATION #11

SCALE: NTS | SHEET OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D1 OVH SIN STR REPL 15-10	VARIOUS	94	72
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			

STRUCTURE NUMBER			~~1C016L000R000.0-000~~ 1C016L000L000.0-005
LOCATION			ARTERIAL
SIZE (W x H)	EXIT PLAQUE		-
	MAIN PANEL		18.5' x 7.5'
MOUNTING / TYPE			OVERHEAD / CANTILEVER
MOUNTING LOC (L, M, R)			-
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	
		COLOR:	
	LEGEND / BORDER	TYPE:	ZZ
		COLOR:	WHITE
		TYPE:	
		COLOR:	



12.00" Radius, 2.00" Border, White on Green;
[Milwaukee Ave] E Mod 2K; Arrow 133 - 30.00" 45°;
Table of widths and spaces.

49.75	36.00	15.00	36.00	47.75	23.50	14.00

14.00	M 12.38	4.50	I 2.63	5.38	I 2.63	3.88	w 13.63	2.63	a 8.88	5.25	u 8.88	5.25	k 8.88	2.88	e 8.88	2.88	e 8.75	13.38	A 13.50	1.75	v 10.25	2.63	e 8.75	49.50

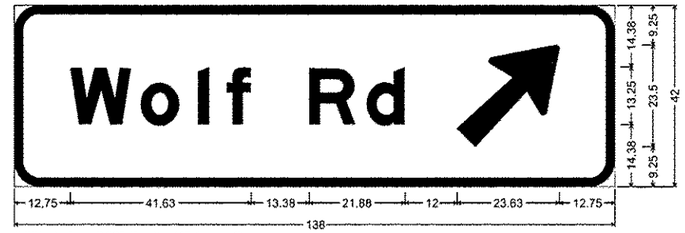
FILE NAME =	USER NAME = goosechal	DESIGNED - LP	REVISED - MD 06/29/2015	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
S:\EX_WAY\TRUSS\TrussRepairContracts\4G337\SignCAD\C6001015-sht-sign.dgn		DRAWN - LP	REVISED -	
Default	PLOT SCALE = 40.0000 ' / in.	CHECKED - IP	REVISED -	
	PLOT DATE = 7/6/2015	DATE - 02/06/2015	REVISED -	

SIGN PANEL DESIGN
LOCATION ~~#16 AND~~ 24

SCALE: NTS | SHEET | OF | SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DI OVH SIN STR REPL 15-10	VARIOUS	94	73
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			

STRUCTURE NUMBER		1C016L000R000.0-001 1C016L000L000.0-004	
LOCATION		ARTERIAL	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	11.5' x 3.5'	
MOUNTING / TYPE		OVERHEAD / CANTILEVER	
MOUNTING LOC (L, M, R)		-	
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	
		COLOR:	
	LEGEND / BORDER	TYPE:	ZZ
		COLOR:	WHITE
		TYPE:	
		COLOR:	



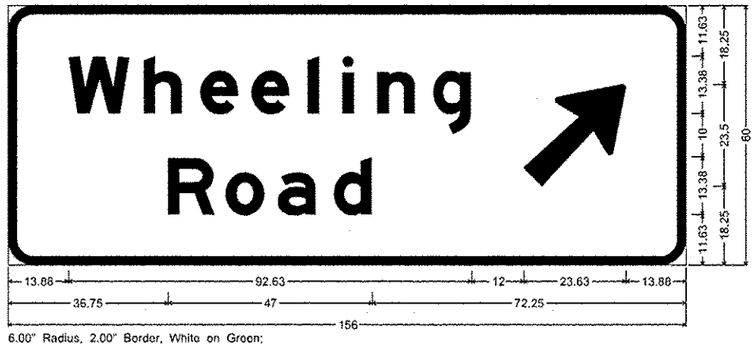
6.00" Radius, 2.00" Border, White on Green;
[Wolf Rd] E Mod 2K; Arrow 133 - 30.00° 45°;
Table of widths and spaces.

	W		o		I		f		R		d		∂°	
12.75	14.13	2.00	9.13	4.13	2.63	4.00	5.63	13.25	10.88	2.38	8.75	12.00	23.63	12.75

FILE NAME = S:\EX_WAY\TRUSS\TrussRepairContracts\46337\SignCAD\C6201015-ent-sign.dgn	USER NAME = pasrachal	DESIGNED - LP	REVISED - LP 04/21/2015	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIGN PANEL DESIGN LOCATION #17 AND 26				
	PLOT SCALE = 40.0000 ' / in.	DRAWN - LP	REVISED -						
Default	PLOT DATE = 4/20/2015	CHECKED - IP	REVISED -						
		DATE - 02/06/2015	REVISED -		SCALE: NTS	SHEET OF SHEETS	STA.	TO STA.	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D1 OVH SIN STR REPL 15-10	VARIOUS	94	74
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			

STRUCTURE NUMBER		1C016L000R000.0-002 1C016L000L000.0-003	
LOCATION		ARTERIAL	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	13' x 5'	
MOUNTING / TYPE		OVERHEAD / CANTILEVER	
MOUNTING LOC (L,M,R)		-	
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	
		COLOR:	
	LEGEND / BORDER	TYPE:	ZZ
		COLOR:	WHITE
		TYPE:	
		COLOR:	



6.00" Radius, 2.00" Border, White on Green;
[Wheeling] E Mod 2K; [Road] E Mod 2K; Arrow 133 - 30.00" 45°;
Table of widths and spaces.

	W		h		e		e		l		l		n		g		
13.88	14.13	3.25	8.75	4.13	8.88	2.88	8.75	4.13	2.75	5.25	2.75	5.25	6.88	4.13	8.75	12.00	23.63	13.88

	R		o		a		d
36.75	10.88	2.38	9.00	3.00	8.75	4.13	8.75	72.38

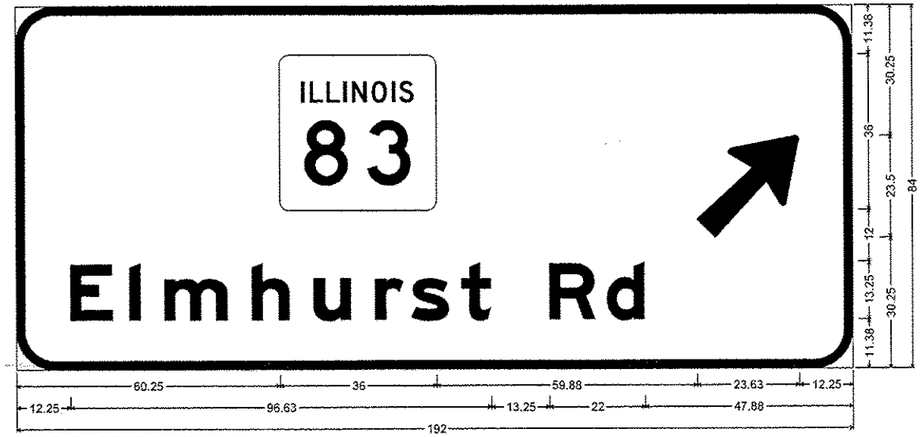
FILE NAME =	USER NAME = poolechal	DESIGNED - LP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
S:\EX_WAY\TRUSS\TrussRepairContracts\46337\SignCAD\C6081015-sht-sign.dgn		DRAWN - LP	REVISED -	
	PLOT SCALE = 40.0202 ' / in.	CHECKED - IP	REVISED -	
Default	PLOT DATE = 4/28/2015	DATE - 02/06/2015	REVISED -	

SIGN PANEL DESIGN
LOCATION #18 AND 23

SCALE: NTS | SHEET | OF | SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	01 OVH SIN STR REPL 15-10	VARIOUS	94	75
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			

STRUCTURE NUMBER		1C016L000R000.0-003 1C016L000L000.0-002	
LOCATION		ARTERIAL	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	16' x 7'	
MOUNTING / TYPE		OVERHEAD / CANTILEVER	
MOUNTING LOC (L, M, R)		-	
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	
		COLOR:	
	LEGEND / BORDER	TYPE:	ZZ
		COLOR:	WHITE
		TYPE:	
		COLOR:	



9.00" Radius, 2.00" Border, White on Green;
[Elmhurst Rd] E Mod 2K; Arrow 133 - 30.00" 45°;
Table of widths and spaces.

60.25	b 36.00	59.88	23.63	12.25

12.25	E 9.88	3.63	l 2.63	5.38	m 14.63	5.38	h 8.75	5.38	u 8.75	5.38	r 6.63	1.75	s 8.75	2.75	t 6.88	13.38	R 10.75	2.38	d 8.88	47.75

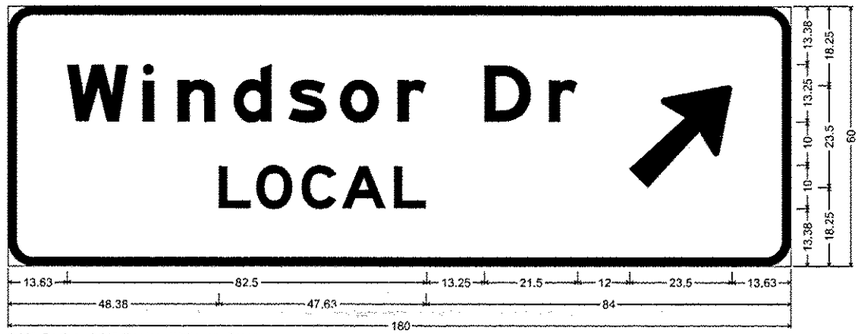
FILE NAME = S:\EX_WAY\TRUSS\TrussRepairContracts\46337\SignCAD\C60R1015-sht-sign.dgn	USER NAME = pacheha	DESIGNED - LP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - LP	REVISED -	
	PLOT SCALE = 48.0000 ' / in.	CHECKED - IP	REVISED -	
Default	PLOT DATE = 4/28/2015	DATE - 02/06/2015	REVISED -	

SIGN PANEL DESIGN
LOCATION #19 AND 22

SCALE: NTS | SHEET | OF | SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D1 OVH SIN STR REPL 15-10	VARIOUS	94	76
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			

STRUCTURE NUMBER		1C016L000R000.0-005	
LOCATION		ARTERIAL	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	15' x 5'	
MOUNTING / TYPE		OVERHEAD / CANTILEVER	
MOUNTING LOC (L, M, R)		-	
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	
		COLOR:	
	LEGEND / BORDER	TYPE:	ZZ
		COLOR:	WHITE
		TYPE:	
		COLOR:	



6.00" Radius, 2.00" Bordor, White on Green:
[Windsor Dr] E Mod 2K; [LOCAL] E Mod 2K; Arrow 133 - 30.00" 45°;
Table of widths and spaces.

	W		I		n		d		s		o		r		D		r			
13.63	14.13	3.13	2.63	5.38	8.75	4.13	8.88	3.88	8.75	3.00	9.00	4.13	6.63	13.38	10.75	4.00	6.75	12.00	23.50	13.63

	L		O		C		A		L	
48.38	7.50	1.13	8.38	2.00	8.13	1.25	10.00	1.88	7.38	84.00

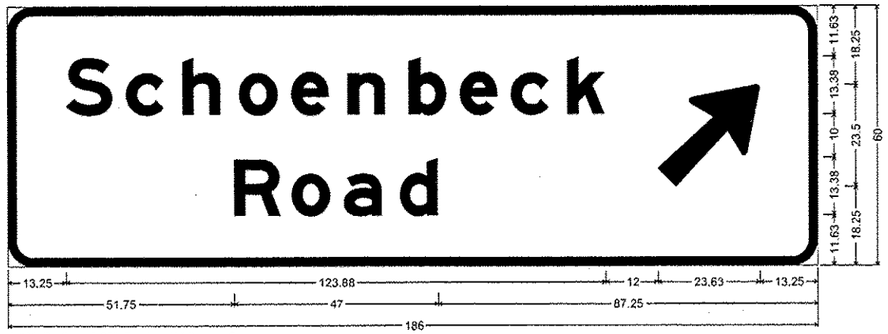
FILE NAME =	USER NAME = pacicchal	DESIGNED - LP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
S:\EX_WAY\TRUSS\TrussRepairContracts\46337\SignCAD\CG081015-sht-sign.dgn		DRAWN - LP	REVISED -	
	PLOT SCALE = 48.0000 ' / in.	CHECKED - IP	REVISED -	
Default	PLOT DATE = 4/28/2015	DATE - 02/06/2015	REVISED -	

SIGN PANEL DESIGN
LOCATION #20

SCALE: NTS | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D1 OVH SIN STR REPL 15-10	VARIOUS	94	77
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			

STRUCTURE NUMBER		1C016L000L000.0-001 1C016L000R000.0-004	
LOCATION		ARTERIAL	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	15.5' x 5'	
MOUNTING / TYPE		OVERHEAD / CANTILEVER	
MOUNTING LOC (L,M,R)		-	
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	
		COLOR:	
	LEGEND / BORDER	TYPE:	ZZ
		COLOR:	WHITE
		TYPE:	
		COLOR:	



6.00" Radius, 2.00" Border, White on Green;
[Schoenbeck] E Mod 2K; [Road] E Mod 2K; Arrow 133 - 30.00" 45°;
Table of widths and spaces.

	S		c		h		o		e		n		b		e		c		k				
13.25	10.88	2.88	8.88	4.13	8.75	4.13	9.13	2.88	8.75	4.13	8.88	5.25	8.88	2.88	8.88	2.88	8.75	4.13	8.88	12.00	23.50	13.25	

	R		c		a		d	
51.75	10.88	2.38	9.00	3.00	6.75	4.13	8.75	87.38

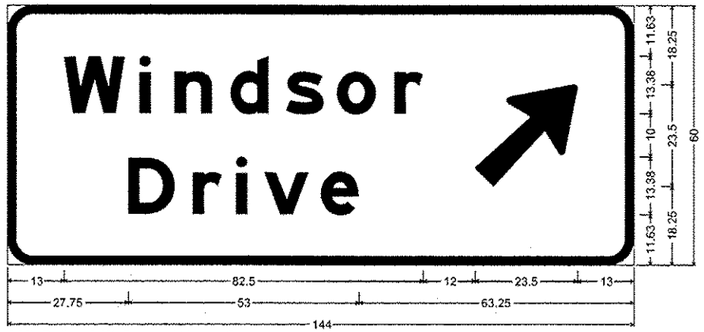
FILE NAME = S:\EX_WAY\TRUSS\TrussRepairContracts\46337\SignCAD\C6201015-sht-sign.dgn	USER NAME = pacischel	DESIGNED - LP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - LP	REVISED -	
	PLOT SCALE = 40.0202 ' / in.	CHECKED - IP	REVISED -	
Default	PLOT DATE = 4/28/2015	DATE - 02/06/2015	REVISED -	

SIGN PANEL DESIGN
LOCATION #21 AND 27

SCALE: NTS | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DI OVH SIN STR REPL 15-10	VARIOUS	94	78
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			

STRUCTURE NUMBER		1C016L000L000.0-000	
LOCATION		ARTERIAL	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	12' x 5'	
MOUNTING / TYPE		OVERHEAD / CANTILEVER	
MOUNTING LOC (L,M,R)		-	
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	
		COLOR:	
	LEGEND / BORDER	TYPE:	ZZ
		COLOR:	WHITE
		TYPE:	
		COLOR:	



6.00" Radius. 2.00" Border. White on Green:
[Windsor] E Mod 2K; [Drive] E Mod 2K; Arrow 133 - 30.00" 45°;
Table of widths and spaces.

	W		l		n		d		s		o		r			
13.00	14.13	3.13	2.75	5.25	8.88	4.13	8.75	3.88	8.75	3.00	9.00	4.13	6.75	12.00	23.50	13.00

	D		r		i		v		e	
27.75	10.88	3.88	6.75	3.13	2.75	3.88	10.25	2.63	8.75	63.38

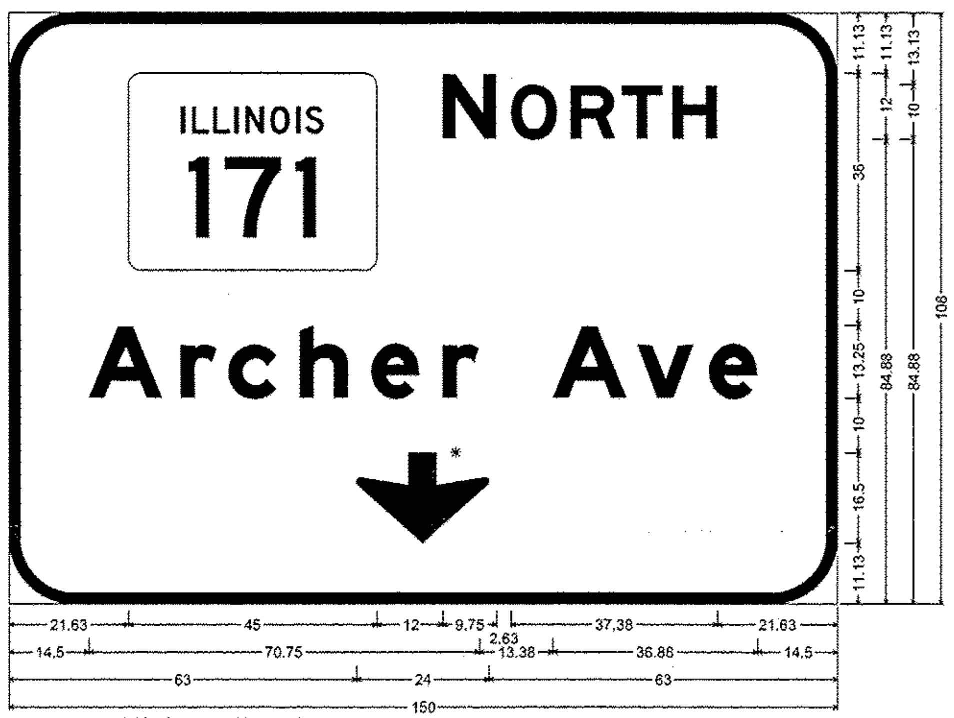
FILE NAME = S:\EX_WAY\TRUSS\TrussRepair-Contracts\46337\SignCAD\E6281015-sht-sign.dgn	USER NAME = pociechal	DESIGNED - LP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - LP	REVISED -	
	PLOT SCALE = 48.0000 ' / in.	CHECKED - IP	REVISED -	
Default	PLOT DATE = 4/28/2015	DATE - 02/06/2015	REVISED -	

SIGN PANEL DESIGN
LOCATION #25

SCALE: NTS | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DI OVH SIN STR REPL 15-10	VARIOUS	94	79
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			

STRUCTURE NUMBER			1S016S171R000.0-002
LOCATION			ARTERIAL
SIZE (W x H)	EXIT PLAQUE		-
	MAIN PANEL		12.5' x 9'
MOUNTING / TYPE			OVERHEAD / TRUSS
MOUNTING LOC (L,M,R)			LEFT
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	
		COLOR:	
	LEGEND / BORDER	TYPE:	ZZ
		COLOR:	WHITE
		TYPE:	
		COLOR:	



12.00" Radius, 2.00" Border, White on Green;
[NORTH] E Mod 2K; [Archer Ave] E Mod 2K; Down Arrow Custom - 16.50" 270°;
Table of widths and spaces.

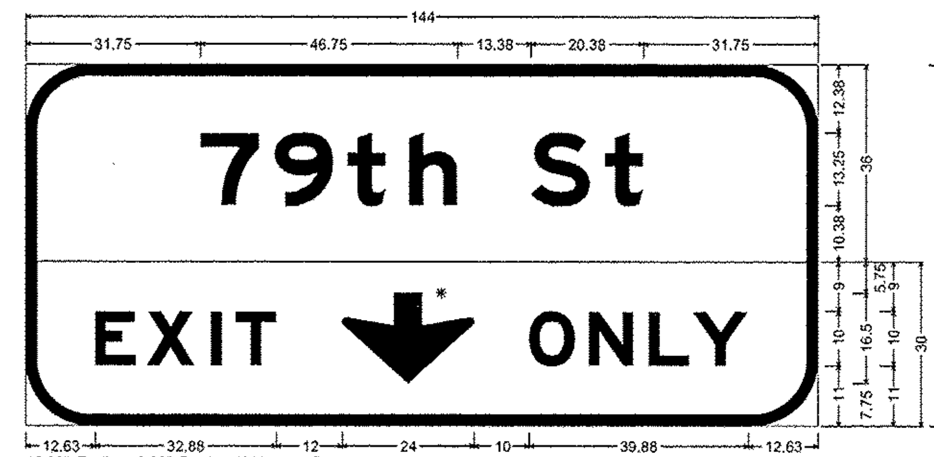
	(shield)		N		O		R		T		H	
21.63	45.00	12.00	9.75	2.63	8.38	2.50	8.00	1.13	7.38	1.88	8.00	21.75

	A		r		c		h		e		r		A		v		e	
14.50	13.38	3.25	6.63	2.00	8.88	4.13	8.75	4.13	8.88	4.13	6.63	13.25	13.50	1.75	10.25	2.75	8.75	14.50

	(arrow)	
63.00	24.00	63.00

* ARROWS SHALL BE DEMOUNTABLE

STRUCTURE NUMBER			1S016S171R000.0-002
LOCATION			ARTERIAL
SIZE (W x H)	EXIT PLAQUE		-
	MAIN PANEL		12' x 5.5'
MOUNTING / TYPE			OVERHEAD / TRUSS
MOUNTING LOC (L,M,R)			MIDDLE
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	ZZ
		COLOR:	YELLOW
	LEGEND / BORDER	TYPE:	ZZ
		COLOR:	WHITE
		TYPE:	
		COLOR:	BLACK



12.00" Radius, 2.00" Border, White on Green;
[79th St] E Mod 2K;
12.00" Radius, 2.00" Border, Black on Yellow;
[EXIT] E Mod 2K 140% spacing; Down Arrow Custom - 16.50" 270°; [ONLY] E Mod 2K;
Table of widths and spaces.

	7		9		t		h		S		t	
31.75	10.75	2.75	10.75	2.50	7.00	4.25	8.75	13.38	10.75	2.75	6.88	31.75

	E		X		I		T		(arrow)		O		N		L		Y	
12.63	7.38	2.00	8.75	2.88	2.00	2.50	7.38	12.00	24.00	10.00	8.50	2.38	8.00	2.88	7.38	0.63	10.13	12.63

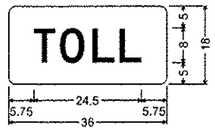
* ARROWS SHALL BE DEMOUNTABLE

FILE NAME = S:\EX_WAY\TRUSS\TrussRepairContracts\46337\SignCAD\C6001015-sht-sign.dgn	USER NAME = pociechol	DESIGNED - LP	REVISED - LP 04/21/2015	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIGN PANEL DESIGN LOCATION #28 (1 OF 2)
	PLOT SCALE = 40.0000 '/ in.	DRAWN - LP	REVISED -		
		CHECKED - IP	REVISED -		
Default	PLOT DATE = 4/20/2015	DATE - 02/06/2015	REVISED -		SCALE: NTS SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D1 OVH SIN STR REPL 15-10	VARIOUS	94	80
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			

DETAILS

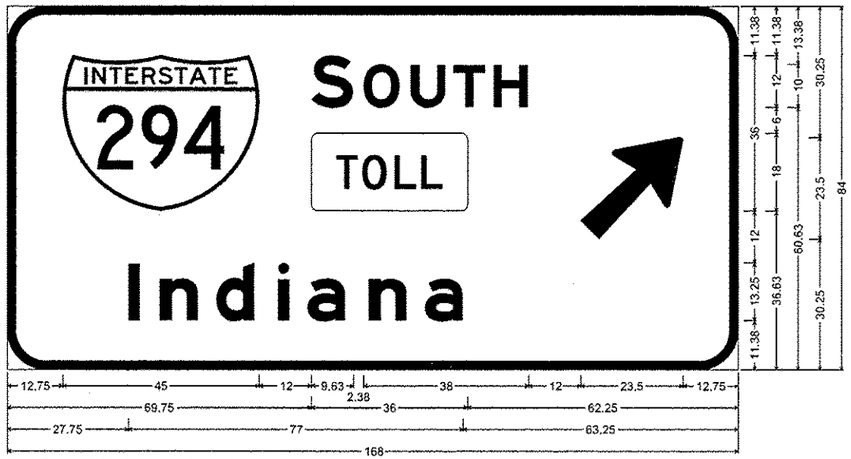
"TOLL" PLAQUE DETAIL DESIGN



1.50" Radius, No border
[TOLL] Black D 2K;
Table of widths and spaces.

	T		O		L		L	
5.75	4.88	1.13	5.63	1.75	5.00	1.13	5.00	5.75

STRUCTURE NUMBER		150165171R000.0-002	
LOCATION		ARTERIAL	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	14' x 7'	
MOUNTING / TYPE		OVERHEAD / TRUSS	
MOUNTING LOC (L, M, R)		RIGHT	
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	
		COLOR:	
	LEGEND / BORDER	TYPE:	ZZ
		COLOR:	WHITE
		TYPE:	
		COLOR:	



9.00" Radius, 2.00" Border, White on Green;
[SOUTH] E Mod 2K; Rounded Rectangle 1.50" Radius Yellow;
[Indiana] E Mod 2K; Arrow 133 - 30.00" 45°;
Table of widths and spaces.

			S		O		U		T		H			
12.75	45.00	12.00	9.63	2.38	8.38	2.38	8.13	1.75	7.50	1.75	8.13	12.00	23.50	12.75

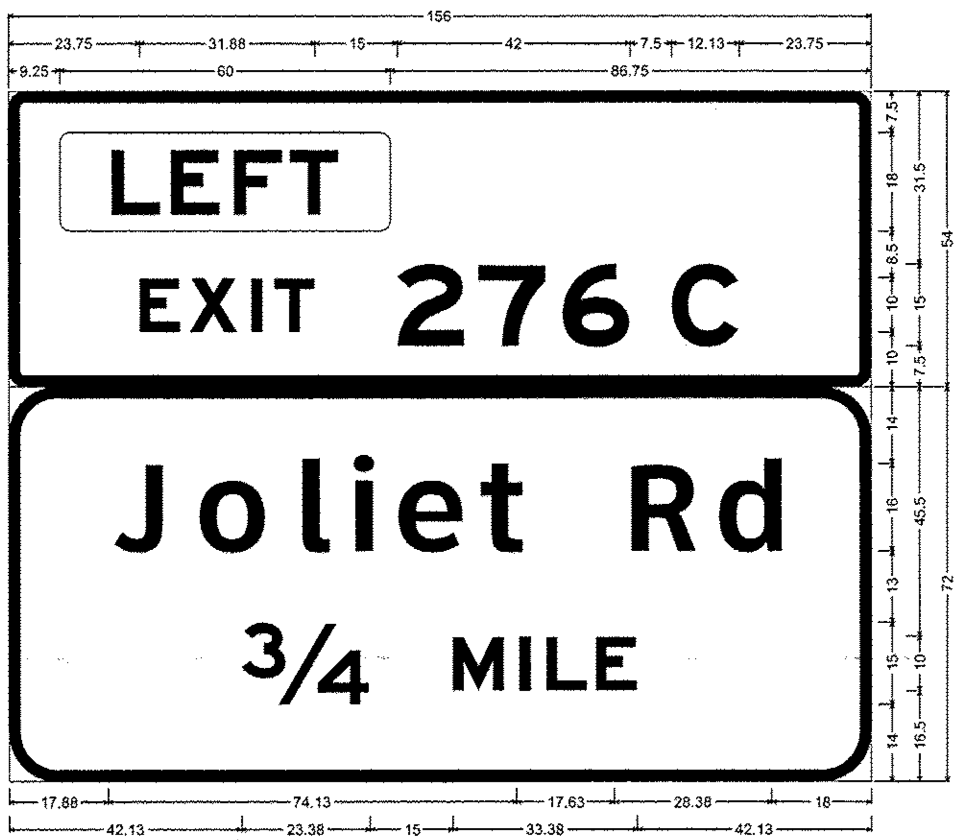
69.75	36.00	62.25

	I		n		d		I		a		n		a	
27.75	2.63	4.63	8.75	4.13	8.75	5.38	2.63	4.13	8.88	5.25	8.88	4.13	8.75	63.38

FILE NAME = S:\EX_WAY\TRUSS\TrussRepairContracts\46337\SignCAD\EG201015-sht-sign.dgn	USER NAME = pasiechal	DESIGNED - LP	REVISED - LP 04/21/2015	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIGN PANEL DESIGN LOCATION #28 (2 OF 2)				
		DRAWN - LP	REVISED -						
	PLOT SCALE = 40.0000 ' / in.	CHECKED - IP	REVISED -						
Default	PLOT DATE = 4/20/2015	DATE - 02/06/2015	REVISED -		SCALE: NTS	SHEET OF SHEETS	STA.	TO STA.	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D1 OVH SIN STR REPL 15-10	VARIOUS	94	81
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			

STRUCTURE NUMBER		1S022I055R276.1-000	
LOCATION		EXPRESSWAY	
SIZE (W x H)	EXIT PLAQUE	13' x 4.5'	
	MAIN PANEL	13' x 6'	
MOUNTING / TYPE		OVERHEAD / TRUSS	
MOUNTING LOC (L, M, R)		LEFT	
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	
		COLOR:	
	LEGEND / BORDER	TYPE:	ZZ
		COLOR:	WHITE
		TYPE:	
		COLOR:	

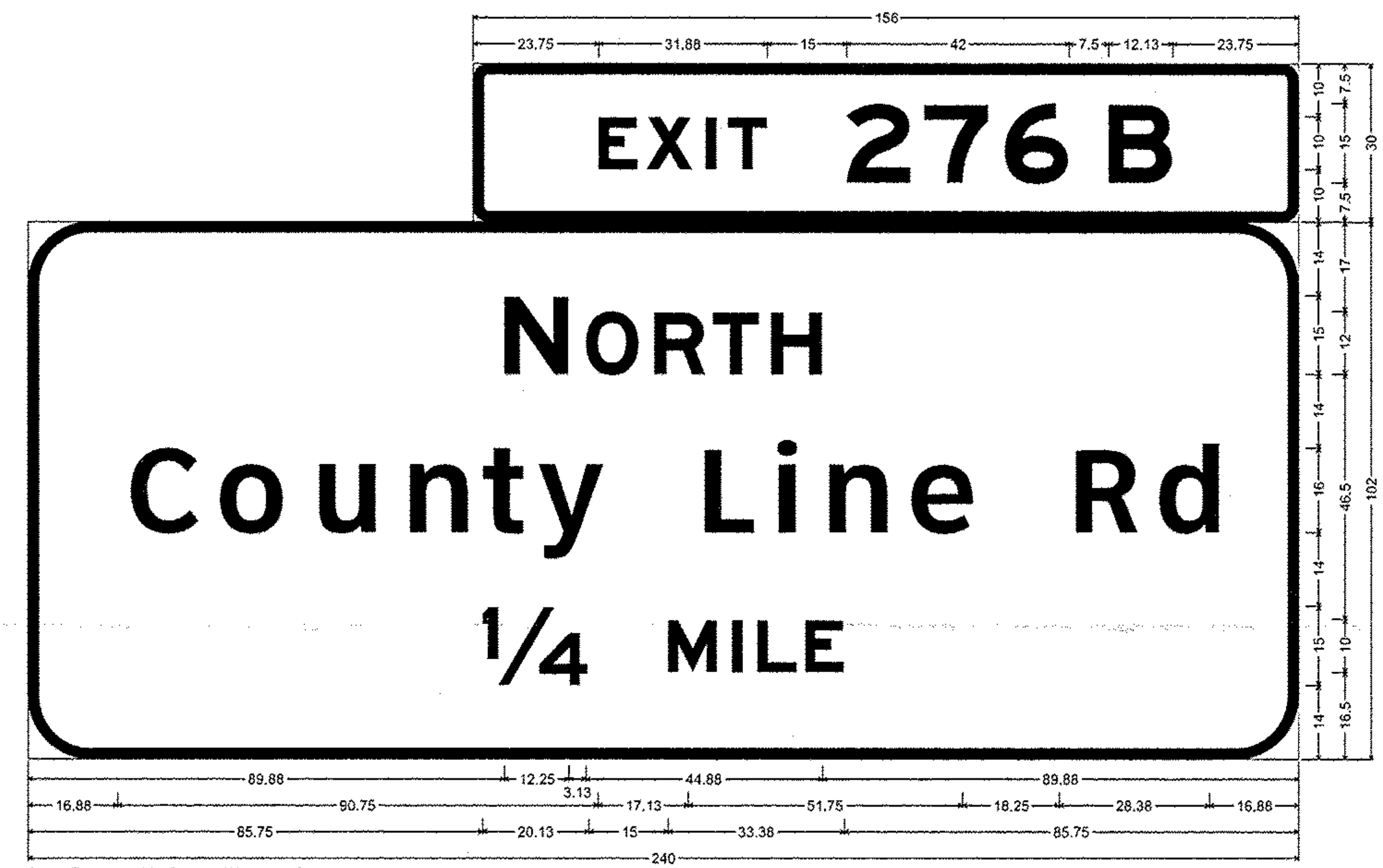


3.00" Radius, 2.00" Border, White on Green;
Rounded Rectangle 1.88" Radius Yellow;
[ ] E Mod 2K; [EXIT] E Mod 2K 120% spacing; [276] E Mod 2K; [C] E Mod 2K;
9.00" Radius, 2.00" Border, White on Green;
[Joliet Rd] ClearviewHwy-5-W; [¾] E Mod 2K; [MILE] E Mod 2K;
Table of widths and spaces.

9.25	▭ 60.00	86.75

23.75	E 7.38	1.75	X 8.63	2.50	I 2.00	2.25	T 7.38	15.00	2 12.13	2.50	7 12.13	3.00	6 12.25	7.50	C 12.13	23.75		
17.88	J 9.00	5.50	o 12.50	5.38	l 5.13	4.38	i 3.75	5.00	e 11.88	3.75	t 7.88	17.63	R 12.00	4.75	d 11.63	18.00		
42.13	¾ 23.38	15.00	M 9.38	2.75	I 2.00	2.75	L 7.50	1.50	E 7.50	42.13								

STRUCTURE NUMBER		1S022I055R276.1-000	
LOCATION		EXPRESSWAY	
SIZE (W x H)	EXIT PLAQUE	13' x 2.5'	
	MAIN PANEL	20' x 8.5'	
MOUNTING / TYPE		OVERHEAD / TRUSS	
MOUNTING LOC (L, M, R)		MIDDLE	
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	
		COLOR:	
	LEGEND / BORDER	TYPE:	ZZ
		COLOR:	WHITE
		TYPE:	
		COLOR:	



3.00" Radius, 2.00" Border, White on Green;
[EXIT] E Mod 2K 120% spacing; [276] E Mod 2K; [B] E Mod 2K;
12.00" Radius, 2.00" Border, White on Green;
[NORTH] E Mod 2K; [County Line Rd] ClearviewHwy-5-W; [¼] E Mod 2K; [MILE] E Mod 2K;
Table of widths and spaces.

23.75	E 7.38	1.75	X 8.63	2.50	I 2.00	2.25	T 7.38	15.00	2 12.13	2.50	7 12.13	3.00	6 12.25	7.50	B 12.13	23.75											
89.88	N 12.25	3.13	O 10.13	2.88	R 9.75	1.25	T 8.88	2.25	H 9.63	90.00																	
16.88	C 13.13	4.00	o 12.50	5.38	u 11.00	6.00	n 11.25	4.25	t 8.00	2.75	y 12.50	17.00	L 9.50	4.63	i 3.75	5.63	n 11.25	5.25	e 11.88	18.25	R 12.00	4.75	d 11.63	16.88			
85.75	¼ 20.13	15.00	M 9.38	2.75	I 2.00	2.75	L 7.50	1.50	E 7.50	85.75																	

FILE NAME = S:\EX_WAY\TRUSS\TrussRepairContracts\46337\SignCAD\CG001015-sht-sign.dgn	USER NAME = pocrechel	DESIGNED - LP	REVISED - LP 04/21/2015	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIGN PANEL DESIGN LOCATION #29 (1 OF 2)
Default	PLOT SCALE = 40.0000 ' / in.	DRAWN - LP	REVISED -		SCALE: NTS SHEET OF SHEETS STA. TO STA.
	PLOT DATE = 4/28/2015	CHECKED - IP	REVISED -		
		DATE - 02/06/2015	REVISED -		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DI OVH SIN STR REPL 15-10	VARIOUS	94	82
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			

STRUCTURE NUMBER		1S022I055R276.1-000	
LOCATION		EXPRESSWAY	
SIZE (W x H)	EXIT PLAQUE	13' x 2.5'	
	MAIN PANEL	23.5' x 6'	
MOUNTING / TYPE		OVERHEAD / TRUSS	
MOUNTING LOC (L, M, R)		RIGHT	
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	
		COLOR:	
	LEGEND / BORDER	TYPE:	ZZ
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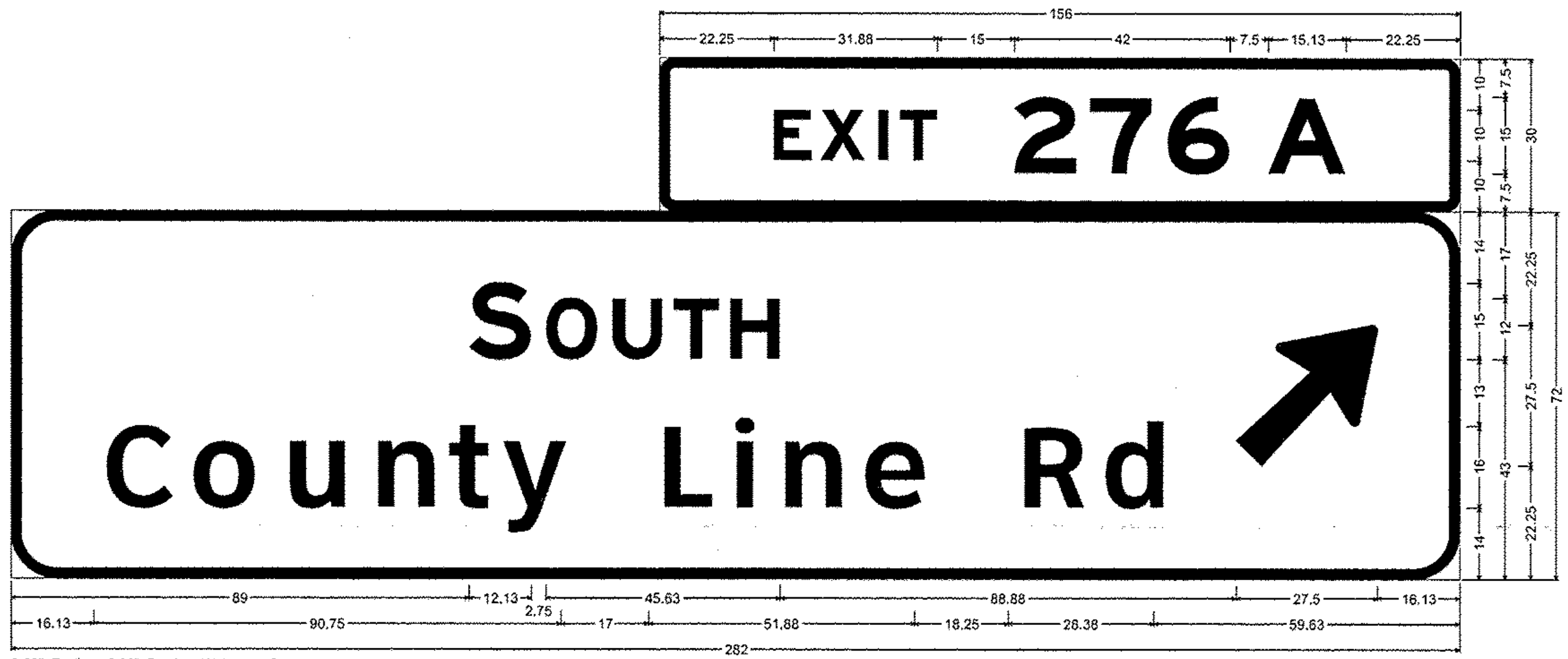
		TYPE:	
		COLOR:	



3.00" Radius, 2.00" Border, White on Green;
[EXIT] E Mod 2K 120% spacing; [276] E Mod 2K; [A] E Mod 2K;
9.00" Radius, 2.00" Border, White on Green;
[SOUTH] E Mod 2K; [County Line Rd] ClearviewHwy-5-W; Arrow 160 - 35.00" 45°;
Table of widths and spaces.

	E		X		I		T		2		7		6		A	
22.25	7.38	1.75	8.63	2.50	2.00	2.25	7.38	15.00	12.13	2.50	12.13	3.00	12.25	7.50	15.13	22.25

	S		O		U		T		H		↗	
89.00	12.13	2.75	10.13	2.88	9.75	2.13	8.88	2.13	9.75	88.88	27.50	16.13

	C		o		u		n		t		y		L		i		n		e		R		d	
16.13	13.13	4.00	12.50	5.38	11.00	6.00	11.25	4.25	8.00	2.75	12.50	17.00	9.50	4.63	3.75	5.63	11.25	5.25	11.88	18.25	12.00	4.75	11.63	59.63

FILE NAME : S:\EX_WAY\TRUSS\TrussRepairContracts\46337\SignCAD\C6001015-sht-sign.dgn	USER NAME : poorechal	DESIGNED - LP	REVISED - LP 04/21/2015
		DRAWN - LP	REVISED -
	PLOT SCALE : 40.0000 ' / in.	CHECKED - IP	REVISED -
Default	PLOT DATE : 4/28/2015	DATE - 02/06/2015	REVISED -

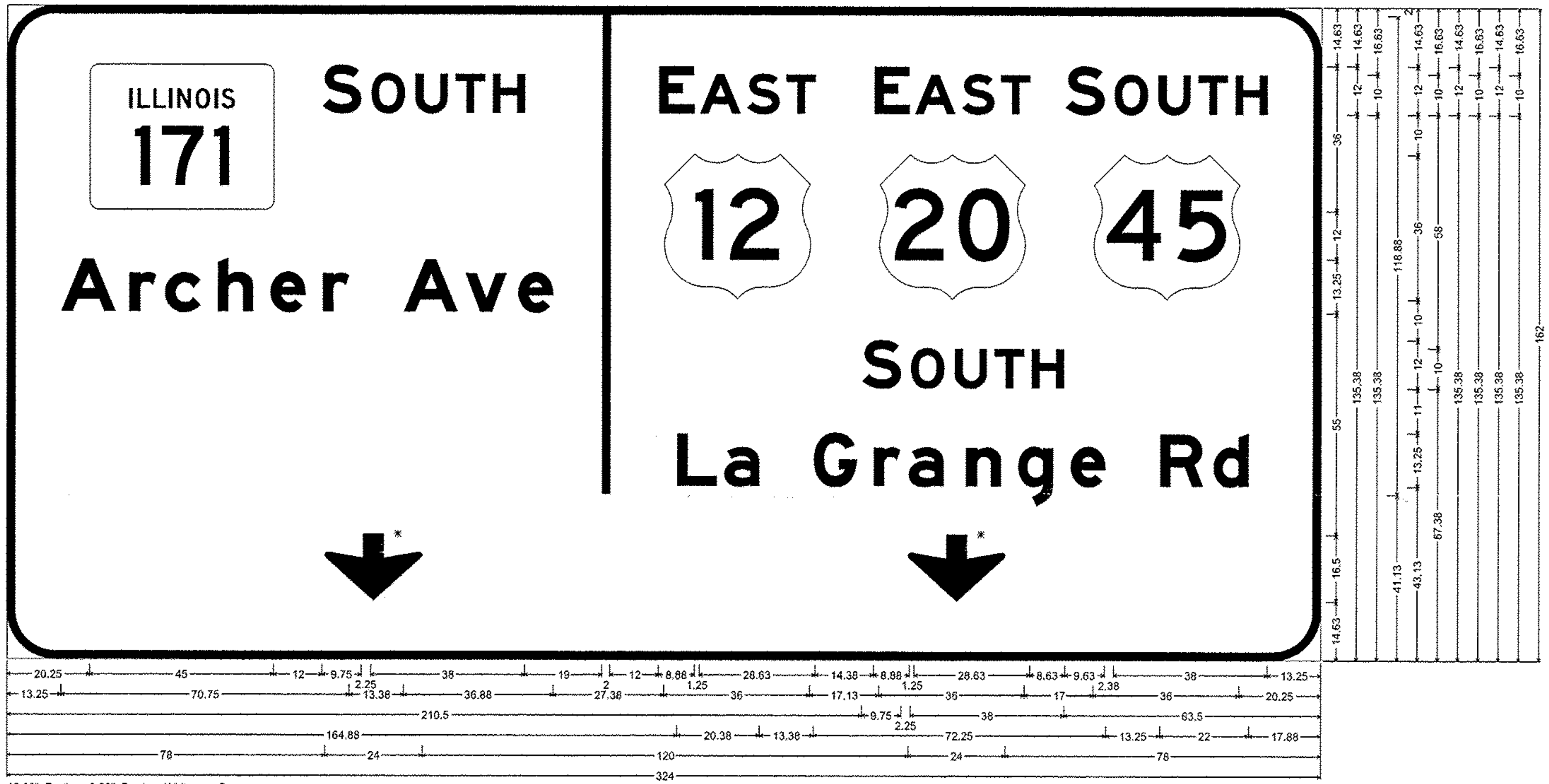
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DESIGN
LOCATION #29 (2 OF 2)

SCALE: NTS | SHEET OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D1 OVH SIN STR REPL 15-10	VARIOUS	94	83
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			

STRUCTURE NUMBER		1S016S171L000.0-001	
LOCATION		ARTERIAL	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	27' x 13.5'	
MOUNTING / TYPE		OVERHEAD / TRUSS	
MOUNTING LOC (L, M, R)		LEFT	
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	
		COLOR:	
	LEGEND / BORDER	TYPE:	ZZ
		COLOR:	WHITE
		TYPE:	
		COLOR:	



12.00" Radius, 2.00" Border, White on Green;
[SOUTH] E Mod 2K; [Archer Ave] E Mod 2K; [EAST] E Mod 2K; [EAST] E Mod 2K; [SOUTH] E Mod 2K; [SOUTH] E Mod 2K; [La Grange Rd] E Mod 2K; Down Arrow Custom - 16.50" 270°; Down Arrow Custom - 16.50" 270°;
Table of widths and spaces.

	171		S		O		U		T		H		I		E		A		S		T		E		A		S		T		S		O		U		T		H	
20.25	45.00	12.00	9.75	2.25	8.38	2.50	8.00	1.88	7.38	1.75	8.13	19.00	2.00	12.00	8.88	1.25	10.13	1.50	8.00	1.50	7.50	14.38	8.88	1.25	10.00	1.50	8.13	1.50	7.38	8.75	9.63	2.38	8.38	2.38	8.13	1.75	7.38	1.88	8.00	13.25		

	A		r		c		h		e		r		A		v		e		12		20		45	
13.25	13.50	3.13	6.63	2.00	8.88	4.13	8.75	4.13	8.88	4.13	6.63	13.38	13.38	1.75	10.25	2.75	8.75	27.38	36.00	17.00	36.00	17.13	36.00	20.25

	S		O		U		T		H	
210.50	9.75	2.25	8.50	2.38	8.13	1.75	7.38	1.75	8.13	63.50

	L		a		G		r		a		n		g		e		R		d		
164.88	9.88	1.75	8.75	13.38	10.75	4.00	6.63	2.00	8.88	5.25	8.88	4.13	8.75	4.13	8.88	13.25	10.88	2.38	8.75	17.88	

	↓		↓	
78.00	24.00	120.00	24.00	78.00

* ARROWS SHALL BE DEMOUNTABLE

FILE NAME : S:\EX.WAY\TRUSS\TrussRepairContracts\46337\SignCAD\C6021015-sht-sign.dgn Default	USER NAME : pooiechal	DESIGNED - LP	REVISED - LP 04/21/2015	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIGN PANEL DESIGN LOCATION #30 (1 OF 2)
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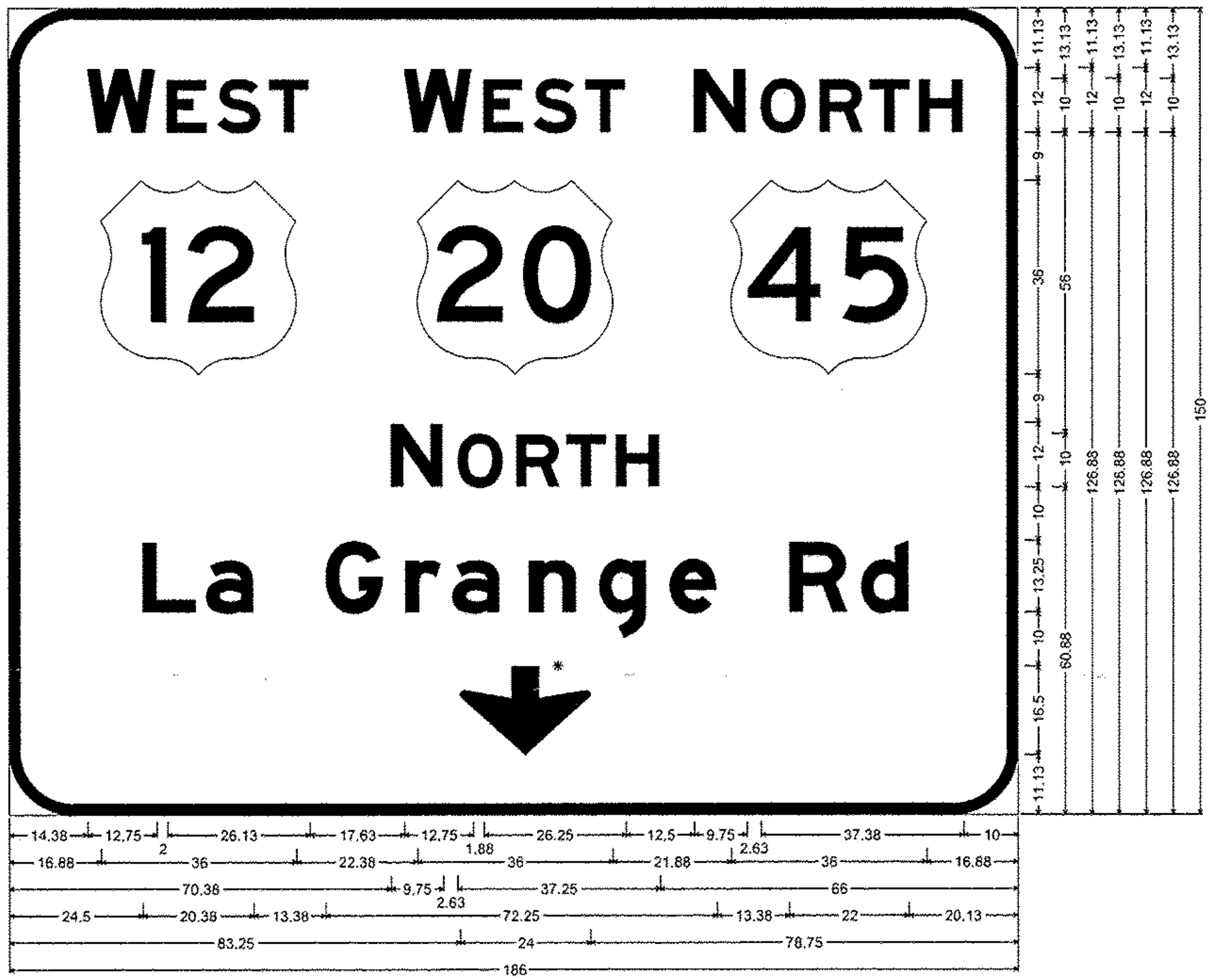
	PLOT DATE = 4/28/2015	CHECKED - IP	REVISED -		SHEET OF SHEETS STA. TO STA.
		DATE - 02/06/2015	REVISED -		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DI OVH SIN STR REPL 15-10	VARIOUS	94	84
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			

STRUCTURE NUMBER		1S016S171L000.0-001	
LOCATION		ARTERIAL	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	15.5' x 12.5'	
MOUNTING / TYPE		OVERHEAD / TRUSS	
MOUNTING LOC (L, M, R)		MIDDLE	
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	
		COLOR:	
	LEGEND / BORDER	TYPE:	ZZ
		COLOR:	WHITE
		TYPE:	
		COLOR:	



12.00" Radius, 2.00" Border, White on Green;
[WEST] E Mod 2K; [WEST] E Mod 2K; [NORTH] E Mod 2K; [NORTH] E Mod 2K; [La Grange Rd] E Mod 2K;
Down Arrow Custom - 16.50" 270°;
Table of widths and spaces.

	W		E		S		T		W		E		S		T
14.38	12.75	2.00	7.38	1.75	8.13	1.50	7.38	17.63	12.63	2.00	7.38	1.88	8.13	1.50	7.38

	N		O		R		T		H	
12.50	9.75	2.63	8.38	2.38	8.13	1.13	7.38	1.75	8.13	10.00

	(12)		(20)		(45)	
16.88	36.00	22.38	36.00	21.88	36.00	16.88

	N		O		R		T		H	
70.38	9.75	2.63	8.38	2.38	8.13	1.13	7.38	1.75	8.13	66.00

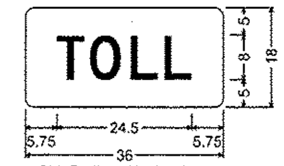
	L		a		G		r		a		n		g		e		R		d	
24.50	9.88	1.75	8.75	13.38	10.75	4.00	6.75	2.00	8.75	5.38	8.75	4.13	8.88	4.13	8.75	13.38	10.75	2.38	8.88	20.13

	(arrow)	
83.25	24.00	78.75

* ARROWS SHALL BE DEMOUNTABLE

DETAILS

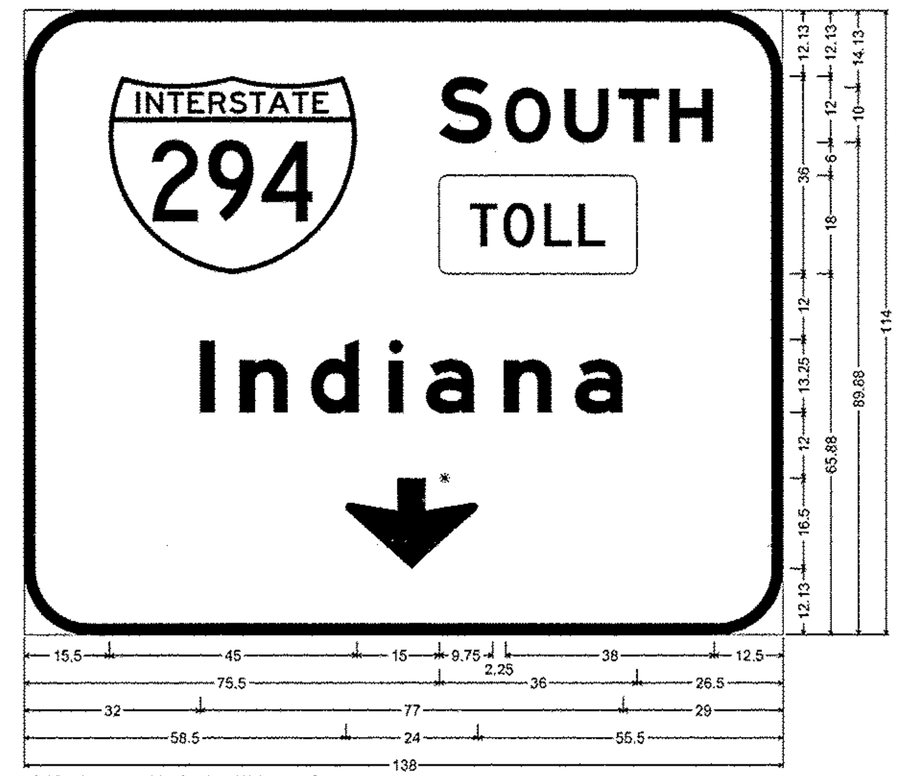
"TOLL" PLAQUE DETAIL DESIGN



1.50" Radius, No border
[TOLL] Black D 2K;
Table of widths and spaces.

	T		O		L		L	
5.75	4.88	1.13	5.63	1.75	5.00	1.13	5.00	5.75

STRUCTURE NUMBER		1S016S171L000.0-001	
LOCATION		ARTERIAL	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	11.5' x 9.5'	
MOUNTING / TYPE		OVERHEAD / TRUSS	
MOUNTING LOC (L, M, R)		RIGHT	
SHEETING / COLOR	BACKGROUND	TYPE:	ZZ
		COLOR:	GREEN
		TYPE:	
		COLOR:	
	LEGEND / BORDER	TYPE:	ZZ
		COLOR:	WHITE
		TYPE:	
		COLOR:	



12.00" Radius, 2.00" Border, White on Green;
[SOUTH] E Mod 2K; Rounded Rectangle 1.50" Radius Yellow;
[Indiana] E Mod 2K; Down Arrow Custom - 16.50" 270°;
Table of widths and spaces.

	(294)		S		O		U		T		H	
15.50	45.00	15.00	9.75	2.25	8.38	2.38	8.13	1.88	7.38	1.75	8.13	12.50

	(rectangle)	
75.50	36.00	26.50

	I		n		d		i		a		n		a	
32.00	2.75	4.50	8.75	4.13	8.88	5.25	2.75	4.13	8.75	5.38	8.75	4.13	8.88	29.00

	(arrow)	
58.50	24.00	55.50

* ARROWS SHALL BE DEMOUNTABLE

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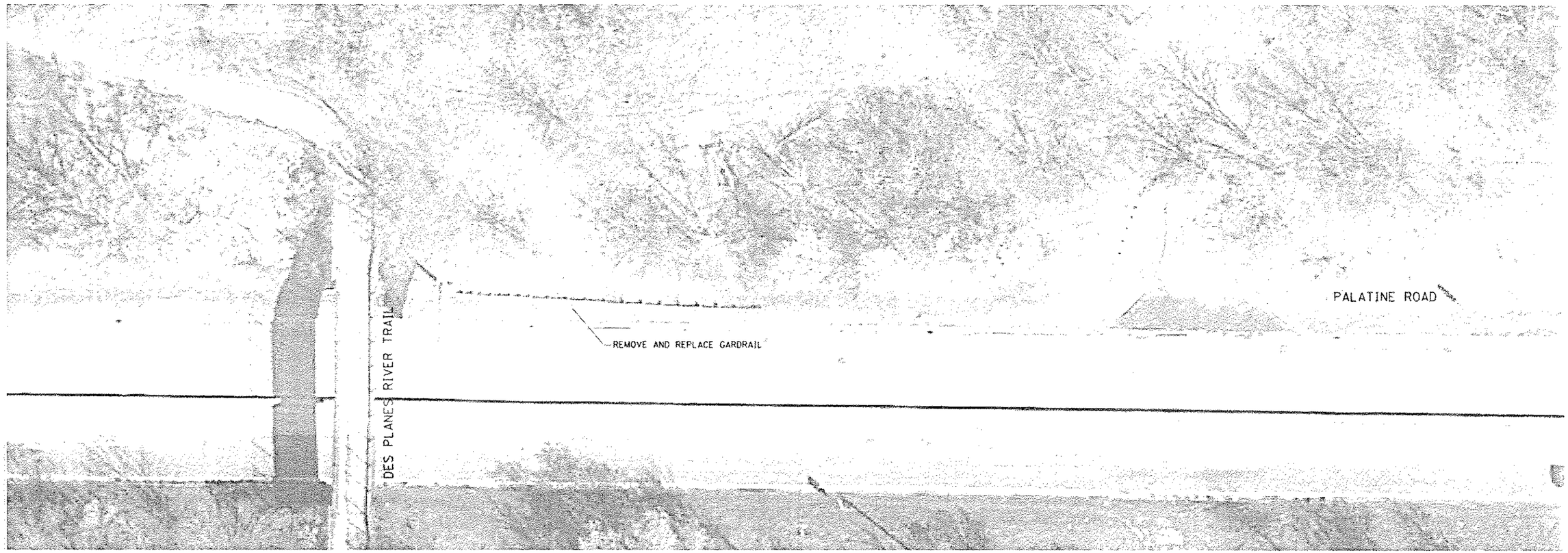
	PLOT DATE = 4/20/2015	DATE - 02/06/2015	REVISED -

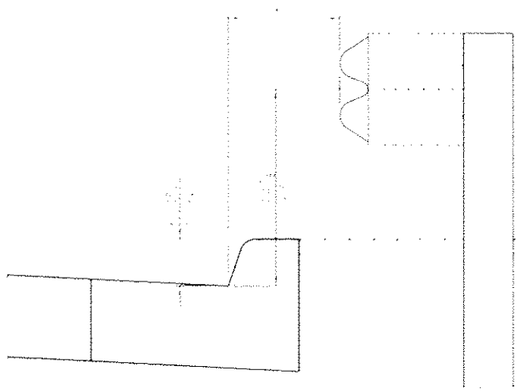
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DESIGN
LOCATION #30 (2 OF 2)

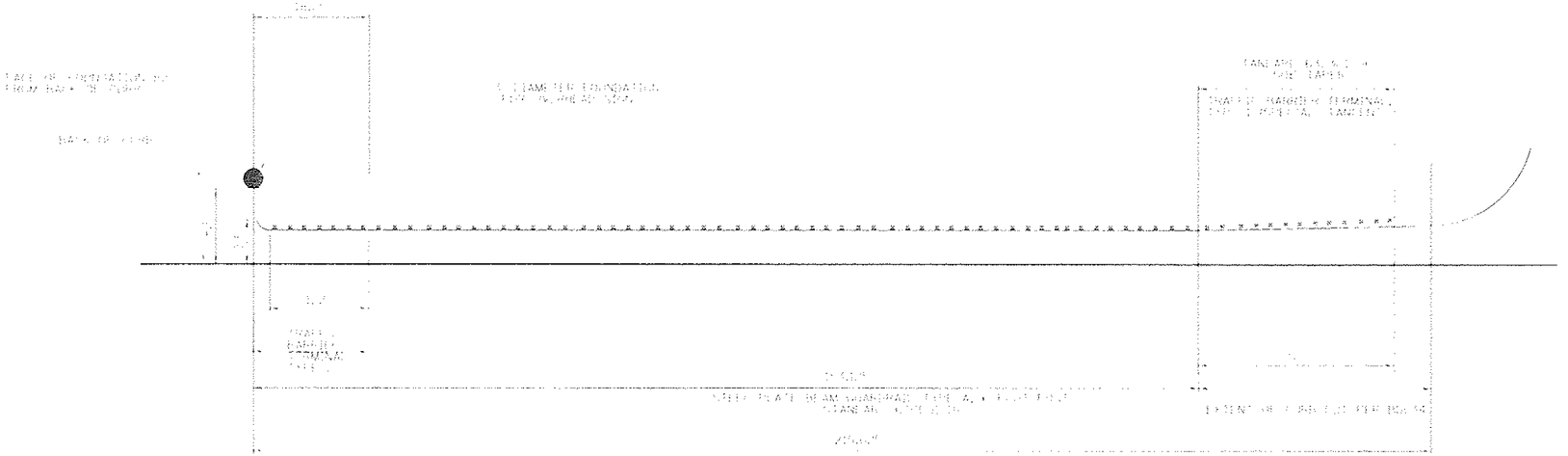
SCALE: NTS | SHEET OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D1 OVH SIN STR REPL 15-10	VARIOUS	94	85
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			





DETAIL A

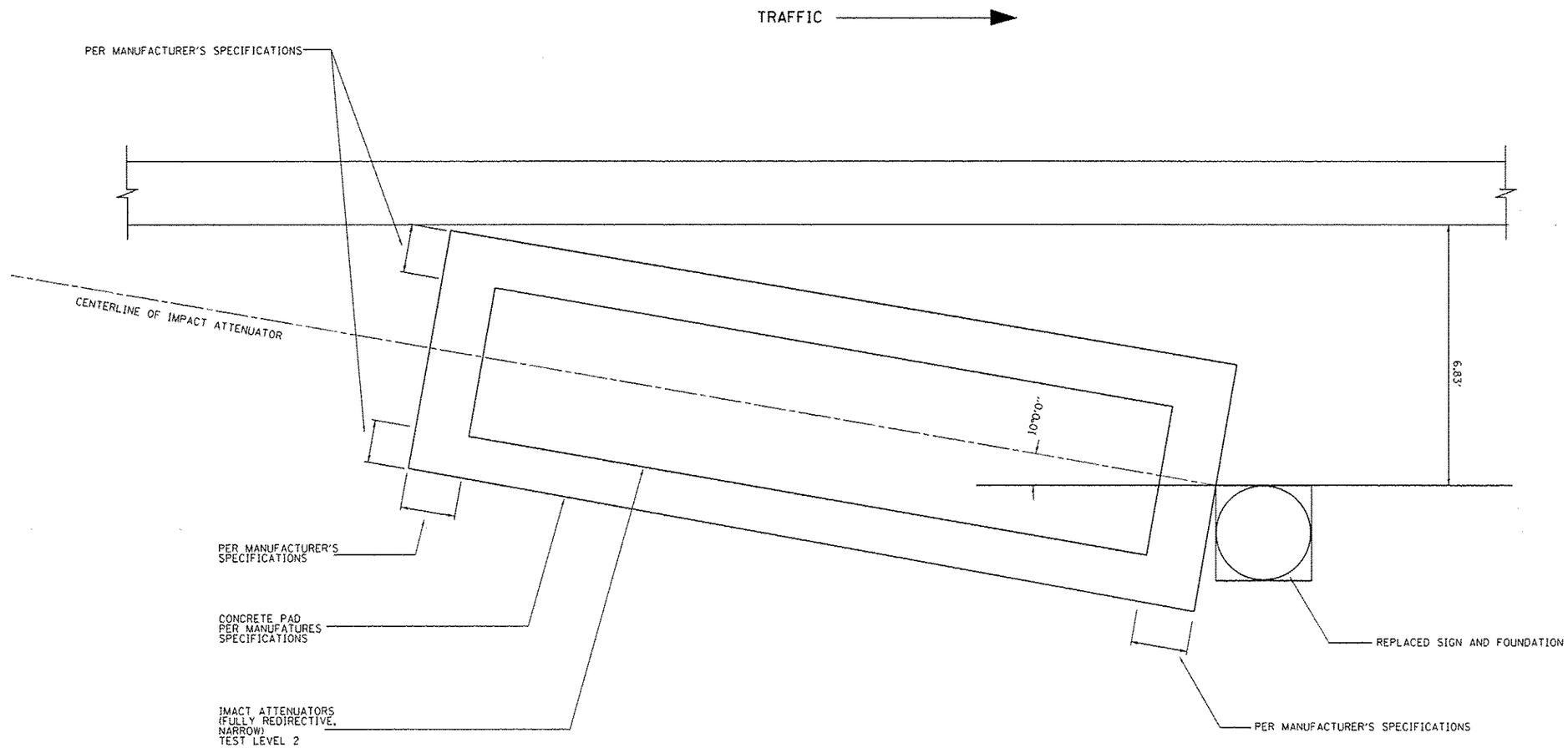


DETAIL B

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL REPLACEMENT DETAIL
WB PALATINE AT RAMP TO MILWAUKEE RD.

NOTE
COST OF CONCRETE PAD IS INCLUDED IN THE COST OF "IMPACT ATTENUATOR (FULLY REDIRECTIVE, NARROW) TEST LEVEL 2"



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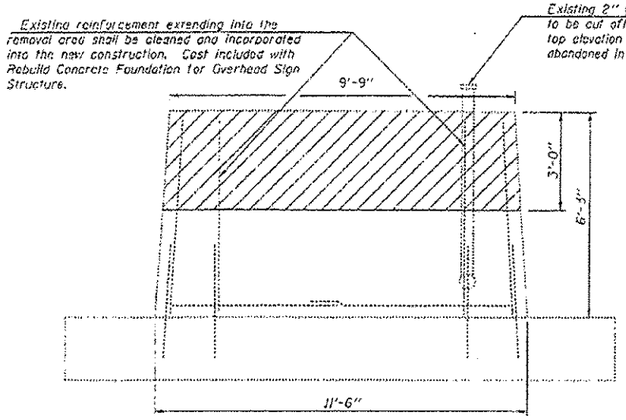
		DRAWN - SS	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
Default	PLOT DATE = 4/28/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IMPACT ATTENUATORS DETAILS
EB PALATINE RD AT RAMP TO WINDSOR RD.

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DI OVH SIN STR REPL 15-10	VARIOUS	94	87
		CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			



CONCRETE REMOVAL

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

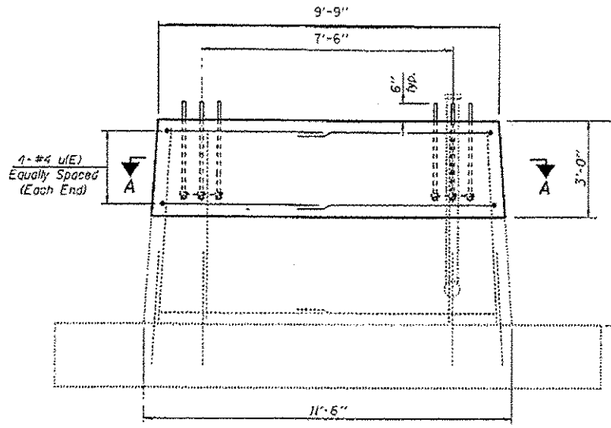
** Anchor rod shall be ground at filed to bright metal at clamp and cable connection location.

*** A normal surface finish followed by a Bridge Seal Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Rebuild Concrete Foundation for Overhead Sign Structure.

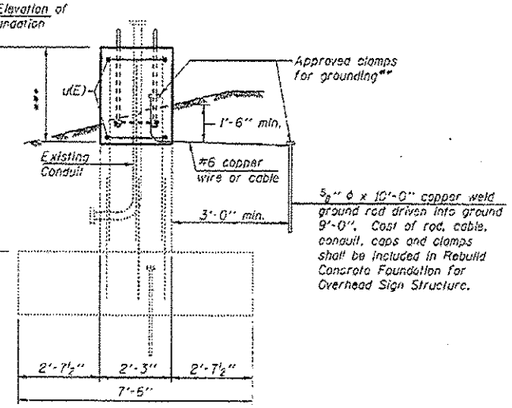
NOTE

1. PLAN DIMENSIONS AND DETAILS WERE OBTAINED FROM EXISTING PLANS AND ARE SUBJECT TO VARIATIONS. THE CONTRACTOR SHALL VERIFY EXISTING DEMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO ORDERING MATERIALS.SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF THE WORK.

2.MEDIAN WALL SHAPE TO MATCH EXISTING



SIDE ELEVATION

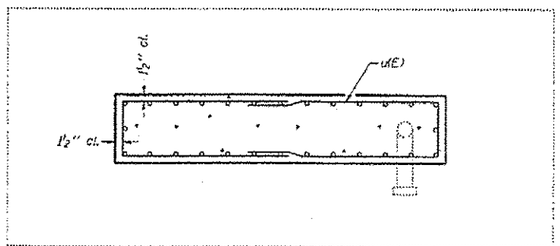


END ELEVATION

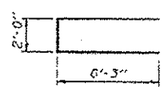
BILL OF MATERIAL EACH FOUNDATION

Bar	Number	Size	Length	Shape
u(E)	8	#4	11'-6"	
Item			Unit	Quantity
Concrete Removal			Cu Yd	2.2
Reinforcement Bars, Epoxy Coated			Pound	80
Concrete Structures			Cu Yd	2.2

Quantities listed here will not be measured for payment, but shall be included with the unit bid price per Each for Rebuild Concrete Foundation for Overhead Sign Structure.



SECTION A-A



BAR u(E)

FILE NAME =	USER NAME = poolechal	DESIGNED -	REVISED -
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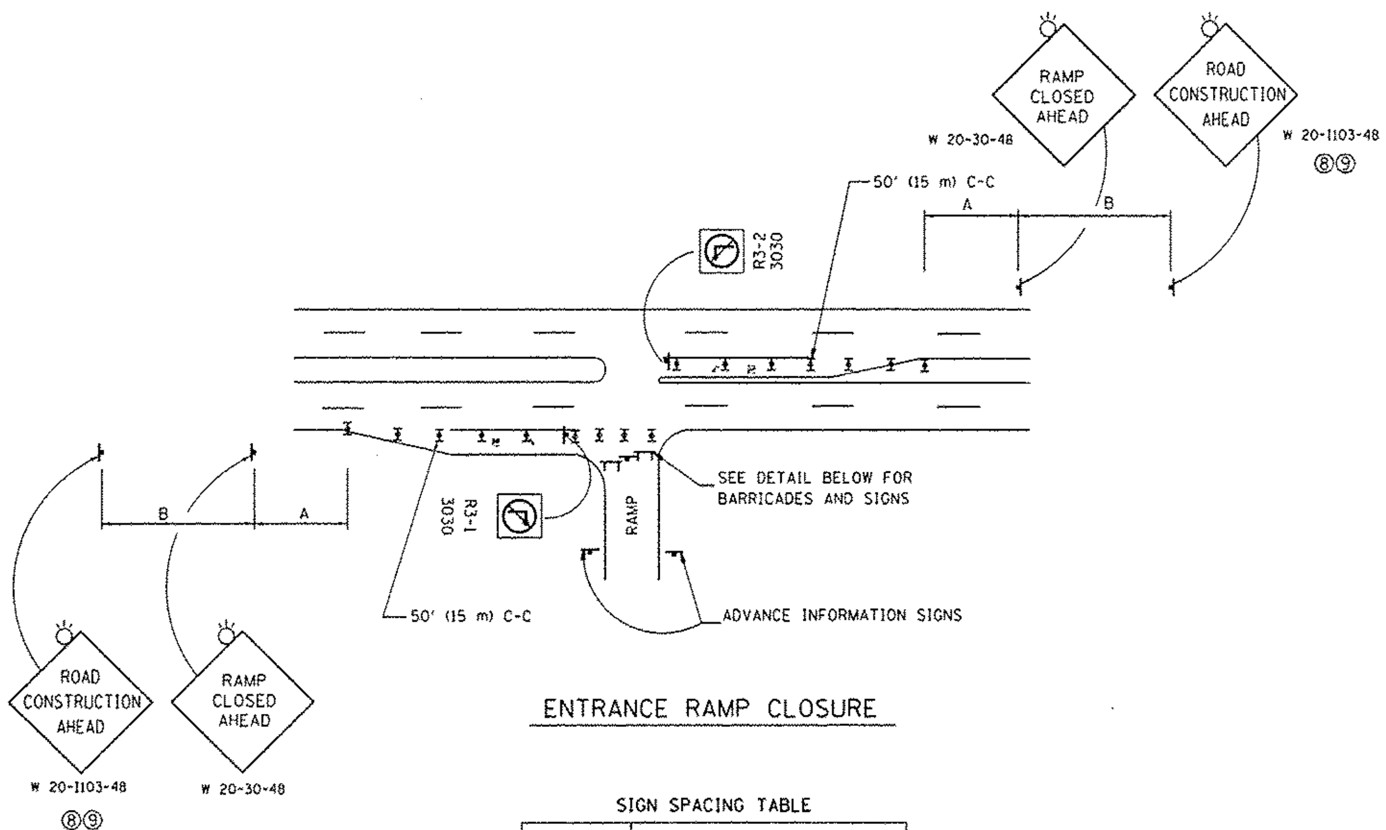
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
Default	PLOT DATE = 4/28/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REBUILD CONCRETE FOUNDATION DETAILS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D1 OVH SIN STR REPL 15-10	VARIOUS	94	88
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

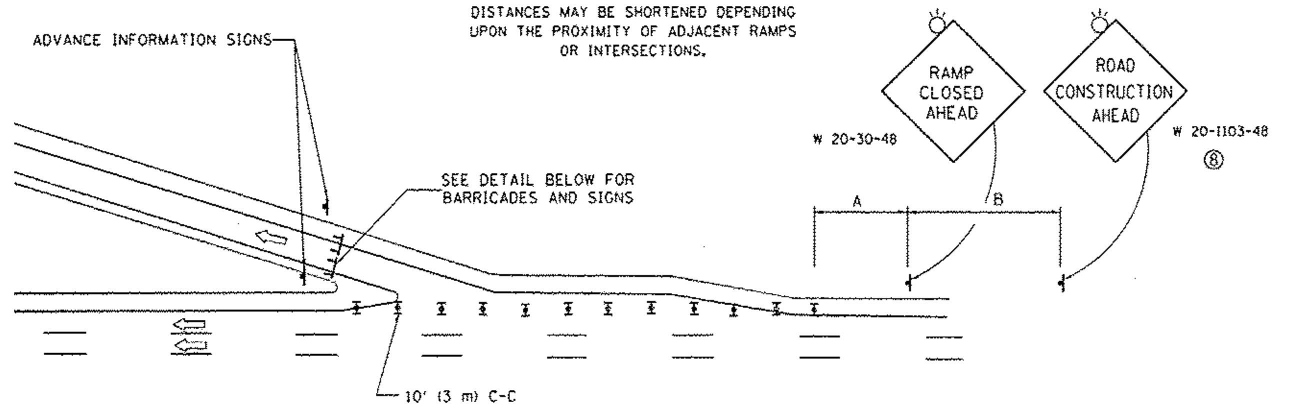


ENTRANCE RAMP CLOSURE

SIGN SPACING TABLE

FACILITY	DISTANCE BETWEEN SIGNS A	DISTANCE BETWEEN SIGNS B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY ≤24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL 55 MPH	500' (150 m)	500' (150 m)
ARTERIAL 50-45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	200' (60 m)	200' (60 m)

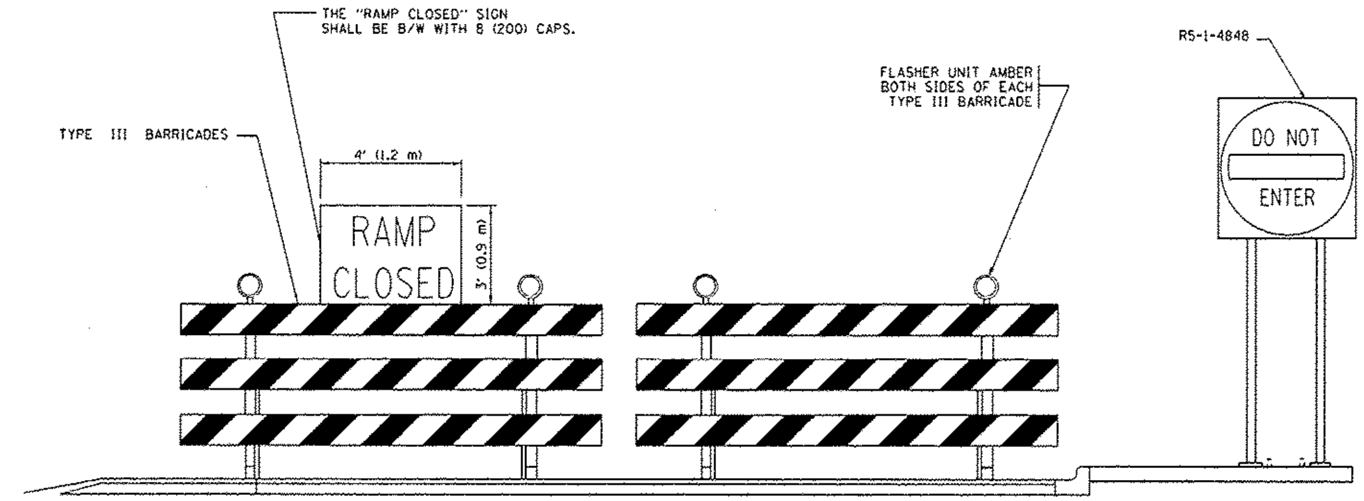
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



EXIT RAMP CLOSURE

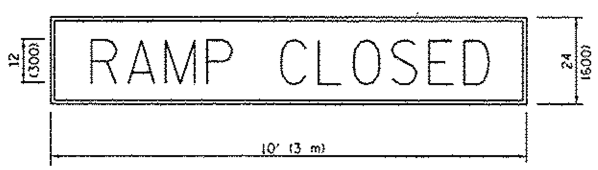
SYMBOLS

- TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- TYPE III BARRICADE WITH 2 FLASHING LIGHTS



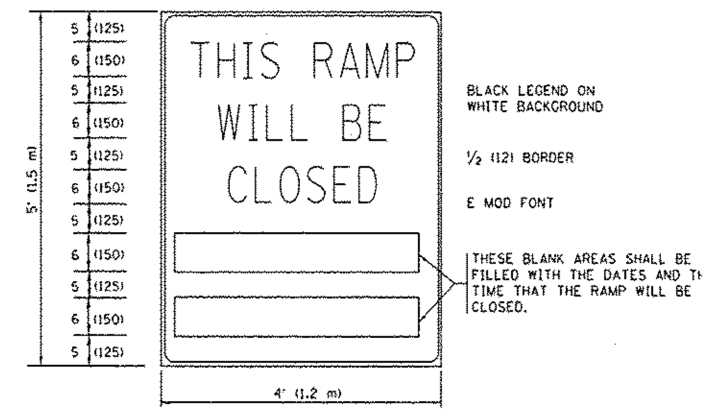
DETAIL FOR REQUIRED BARRICADES & SIGNS

RAMP CLOSURE ADVANCE WARNING SIGN



BLACK LEGEND ON ORANGE
BACKGROUND MOUNTED
DIAGONALLY
E MOD FONT
1 (25) BORDER
THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.

RAMP CLOSURE ADVANCE INFORMATION SIGN



THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

GENERAL NOTES:

1. CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
2. STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
3. A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEEDED BY A W20-7 FLAGGER WARNING SIGN.
4. ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
5. THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
7. THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED FOUR (4) DAYS IN LENGTH
8. ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
9. ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

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

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		DRAWN -	REVISED - S.P.B. 01-07
	PLOT SCALE : 100.0000 ' / in.	CHECKED -	REVISED - S.P.B. 12-09
Default	PLOT DATE : 4/20/2015	DATE - 02-83	REVISED - M.D. 06-13

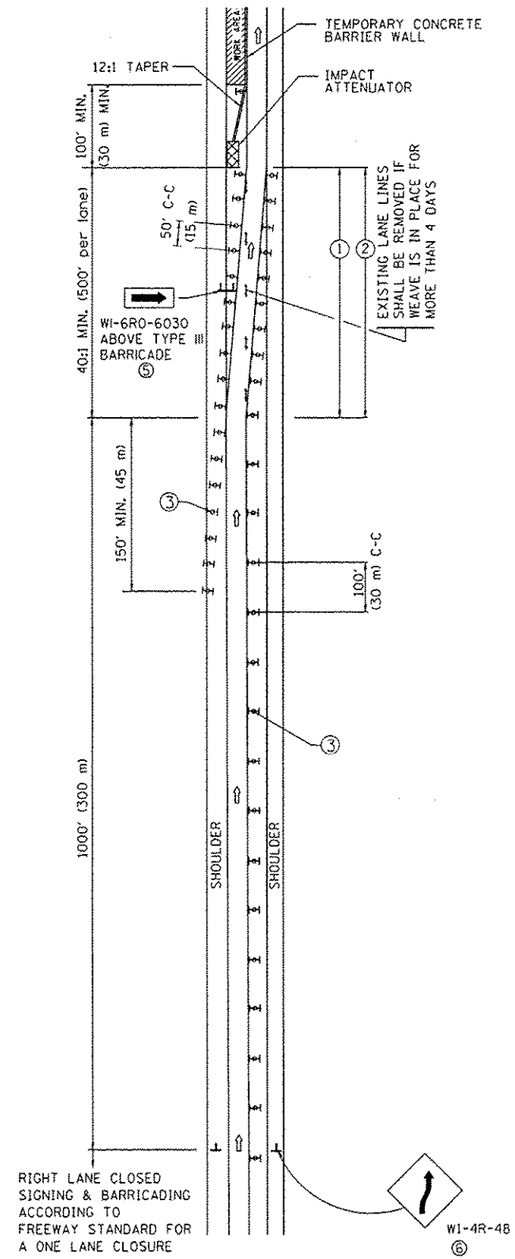
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ENTRANCE AND EXIT RAMP
CLOSURE DETAILS

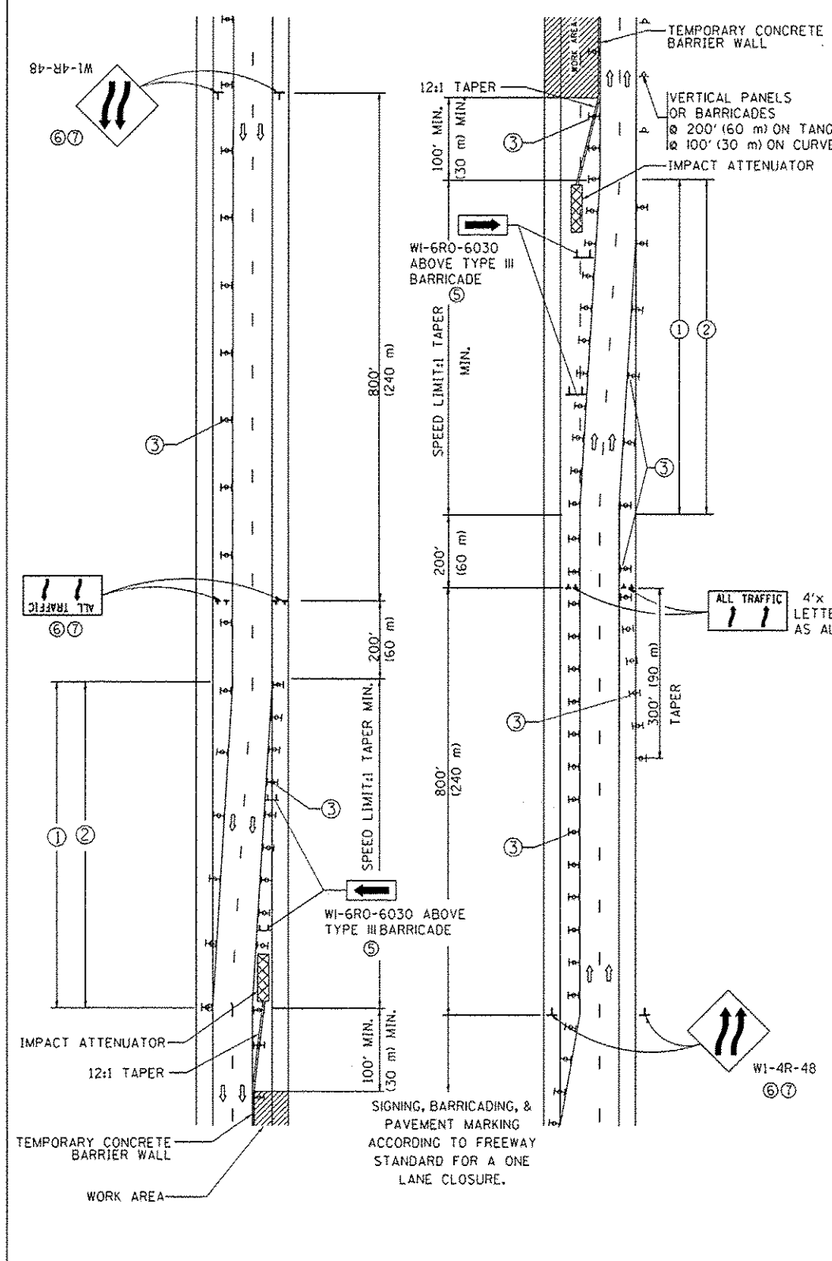
SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D1 OVH SIN STR REPL 15-10	VARIOUS	94	89
	TC-08	CONTRACT NO. 46337		
		ILLINOIS FED. AID PROJECT		

SINGLE LANE WEAVE



MULTI-LANE WEAVE



ALL TRAFFIC 4'x 8' (1.2 m x 2.4 m); 1 (25) BORDER; 10 (250) CAPITAL LETTERS BACKGROUND SHEETING SHALL BE THE SAME AS ALL DIAMOND SHAPED CONSTRUCTION SIGNS.

GENERAL NOTES

① EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.

② CONTINOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.

③ PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.

④ ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.

⑤ TYPE III BARRICADES MAY BE OMMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.

⑥ WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.

⑦ THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

SYMBOLS

- DIRECTION OF TRAFFIC
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATOR

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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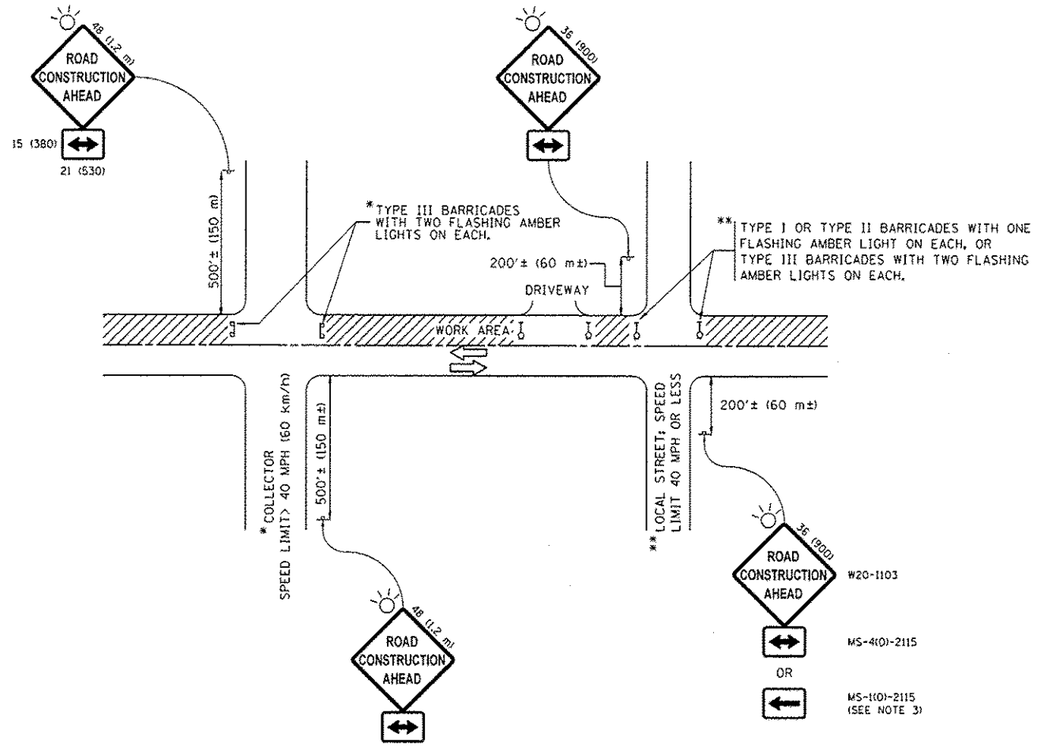
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	01 OVH SIN STR REPL 15-10	VARIOUS	94	90
	TC-09	CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			



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

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

   a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 36 x 36 (900x900) WITH A FLASHER ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.

   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.

2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

   a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.

   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.

3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

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		DRAWN -	REVISED - A. HOUSEH 10-15-96
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - T. RAMMACHER 01-06-00
Default	PLOT DATE = 4/28/2015	DATE - 06-89	REVISED - A. SCHUETZE 07-01-13

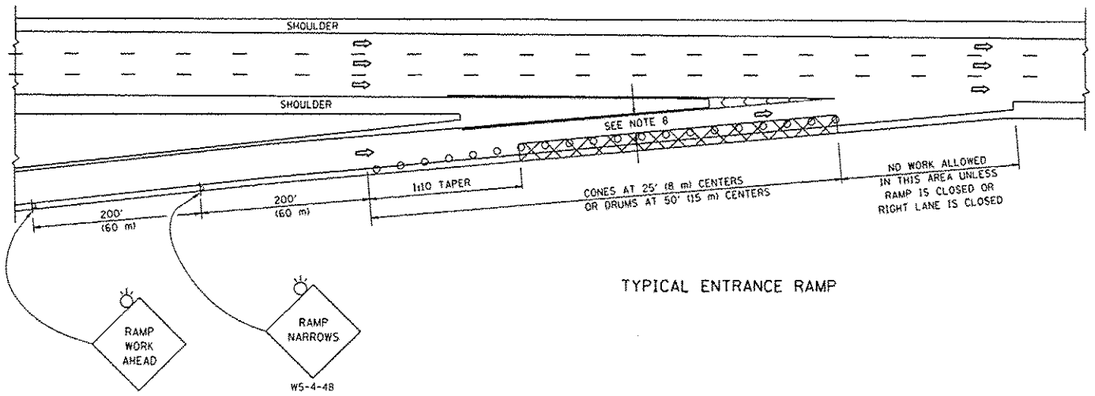
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

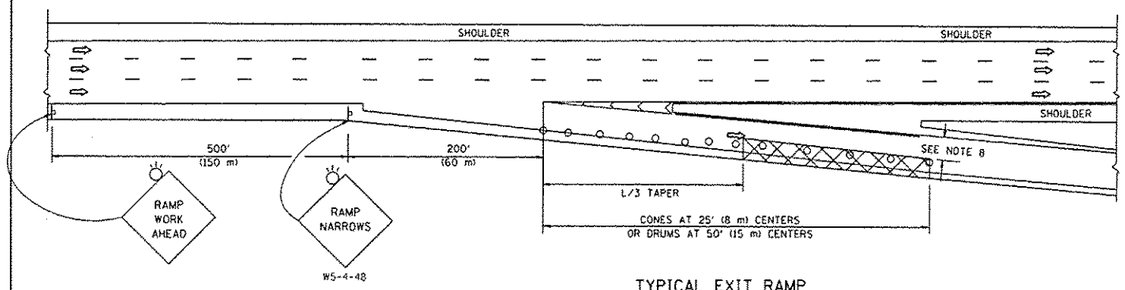
SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	01 OVH SIN STR REPL 15-10	VARIOUS	94	91
	TC-10	CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			

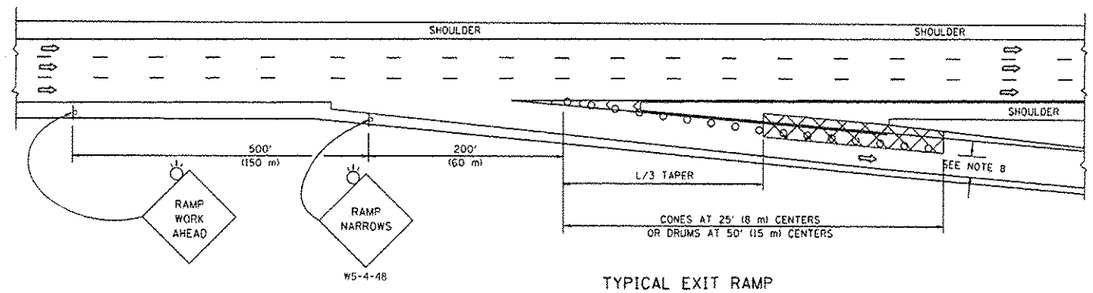
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP

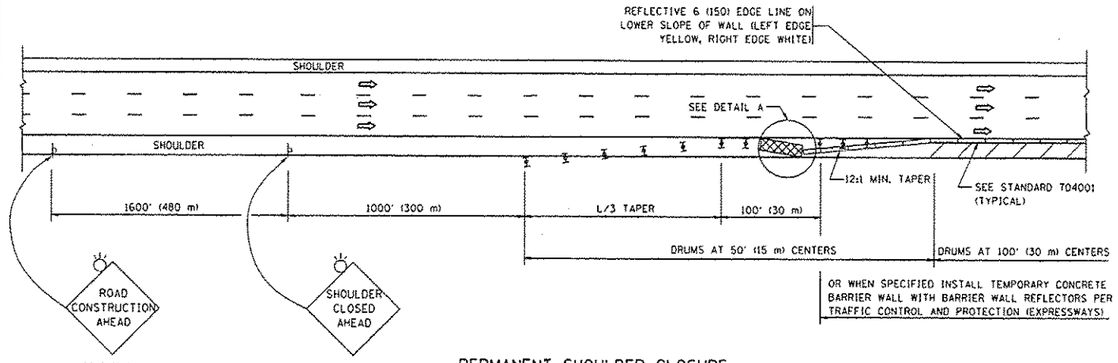


TYPICAL EXIT RAMP

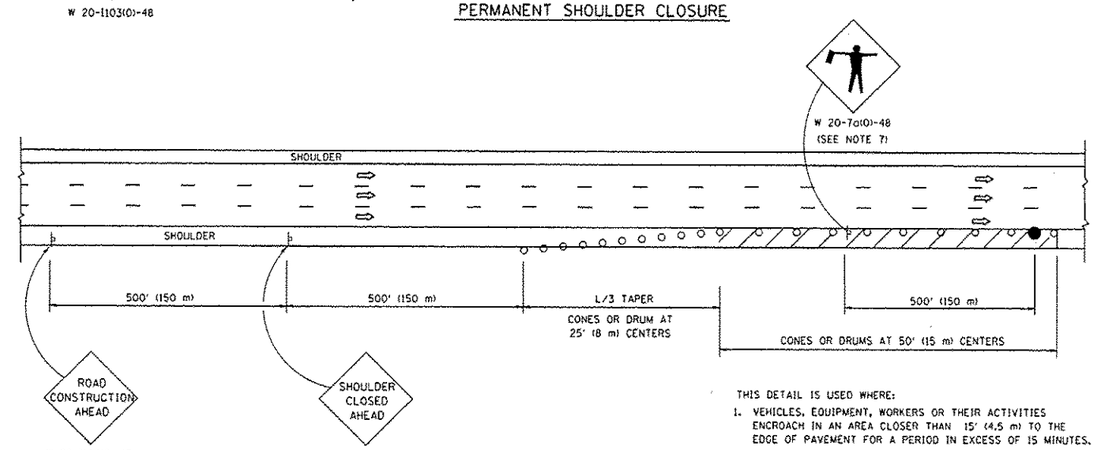


TYPICAL EXIT RAMP

SHOULDER CLOSURE DETAILS



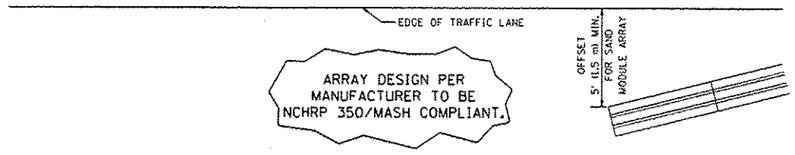
PERMANENT SHOULDER CLOSURE



THIS DETAIL IS USED WHERE:

1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.

DAYTIME SHOULDER CLOSURE



DETAIL "A"
IMPACT ATTENTUATOR, TEMPORARY
(SEE NOTE 5)

SYMBOLS

- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

GENERAL NOTES

1. THE "L" DISTANCE EQUALS:

SPEED LIMIT	FORMULAS	
	METRIC	ENGLISH
45 mph (80 km/h) OR GREATER:	L=0.65(W)(S)	L=(W)(S)

W = WIDTH OF OFFSET IN FEET (METERS)
S = NORMAL POSTED SPEED MPH (KM/H)

2. PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.
5. THE IMPACT ATTENTUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
   a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
   b. THE WORK AVTIVITY REQUIRES FREQUENT ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC.

   THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
8. 12' MIN. WIDTH TANGENT SECTION
   16' MIN. WIDTH CURVE SECTION.

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

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Default		PLOT DATE = 4/28/2015	DATE - 11-96	REVISED - M.D. 06-13

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

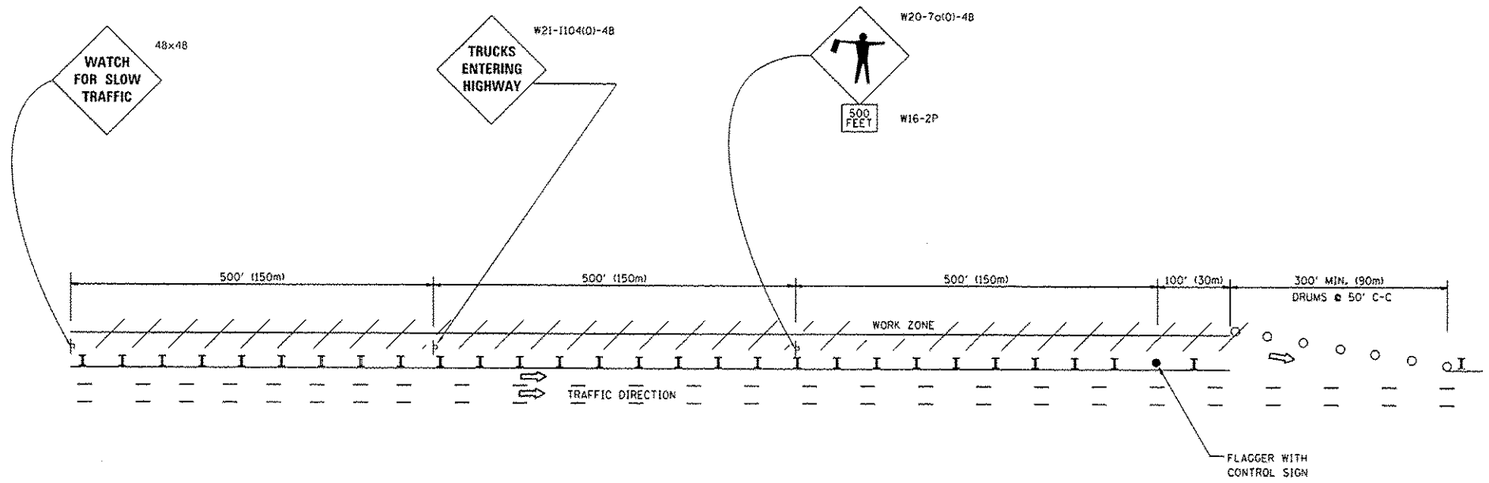
TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES

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

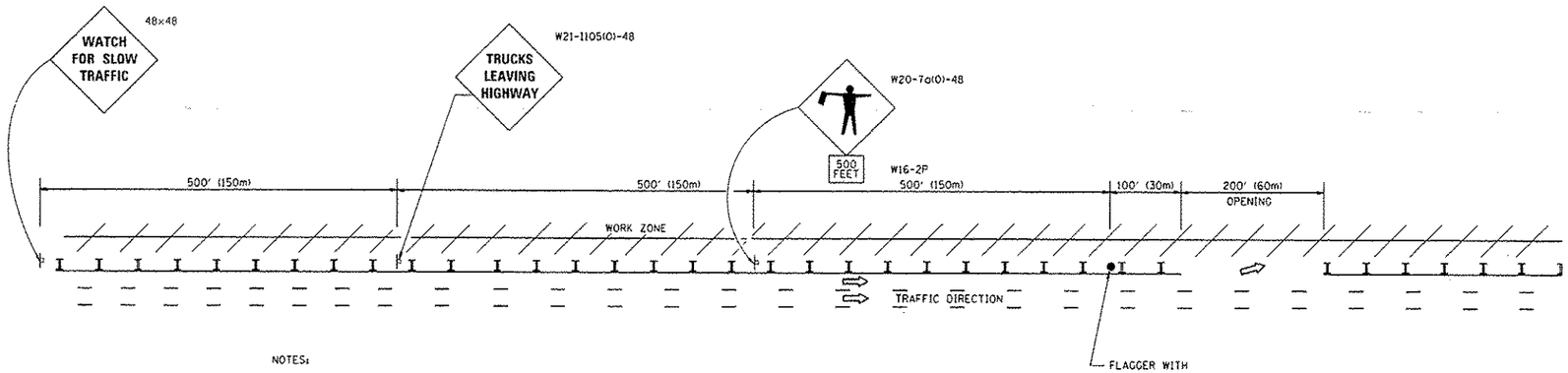
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	D1 OVH SIN STR REPL 15-10	VARIOUS	94	92
	TC-17	CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



NOTES:

1. ALL SIGNS SHALL BE REMOVED OR TURNED AWAY FROM TRAFFIC AND THE EXIT AND ENTRY OPENINGS SHALL BE CLOSED WHEN THE FLAGGING OPERATION CEASES. NON OPERATING EQUIPMENT SHALL COMPLY WITH ARTICLE 701.11
2. WORK ZONE OPENINGS SHALL BE A MINIMUM OF ONE HALF MILE APART AND A MINIMUM OF ONE QUARTER MILE FROM ALL ENTRANCE AND EXIT RAMPS.
3. EXITING THE WORK ZONE AT ANY PLACE OTHER THAN AT A WORK ZONE EXIT OPENING WILL BE PROHIBITED.
4. ALL VEHICLES SHALL ENTER THE WORK ZONE AT ENTRY OPENINGS, USING THEIR TURN SIGNALS TO WARN MOTORISTS
5. FLAGGERS SHALL NOT STOP TRAFFIC OR DIRECT TRAFFIC INTO AN ADJACENT LANE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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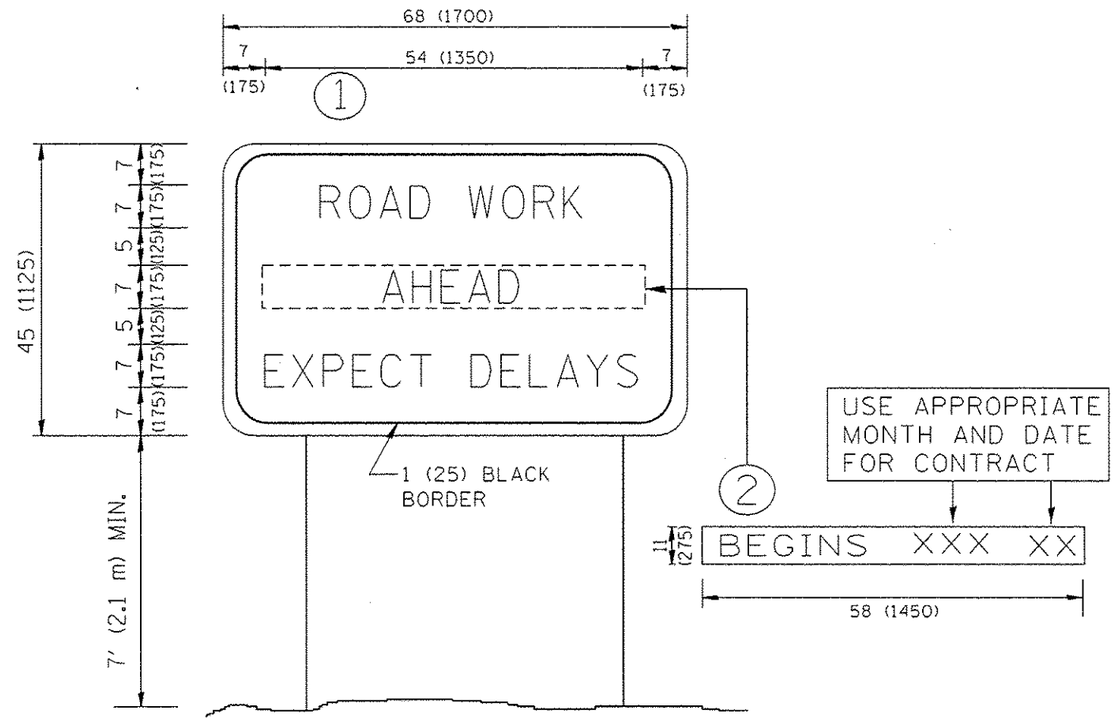
Default	PLOT DATE = 4/28/2015	DATE -	REVISED - M.D. 06-13

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FREEWAY/EXPRESSWAY SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS ON FREEWAYS/EXPRESSWAYS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	01 OVH SIN STR REPL 15-10	VARIOUS	94	93
	TC-18	CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN (1) WITH INSTALLED PANEL (2) ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL (2) SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

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Default	PLOT DATE = 4/28/2015	DATE -	REVISED - C. JUCIUS 01-31-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD INFORMATION SIGN

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	01 OVH SIN STR REPL 15-10	VARIOUS	94	94
	TC-22	CONTRACT NO. 46337		
	ILLINOIS FED. AID PROJECT			