## Illinois Tollway Base Sheet Revisions

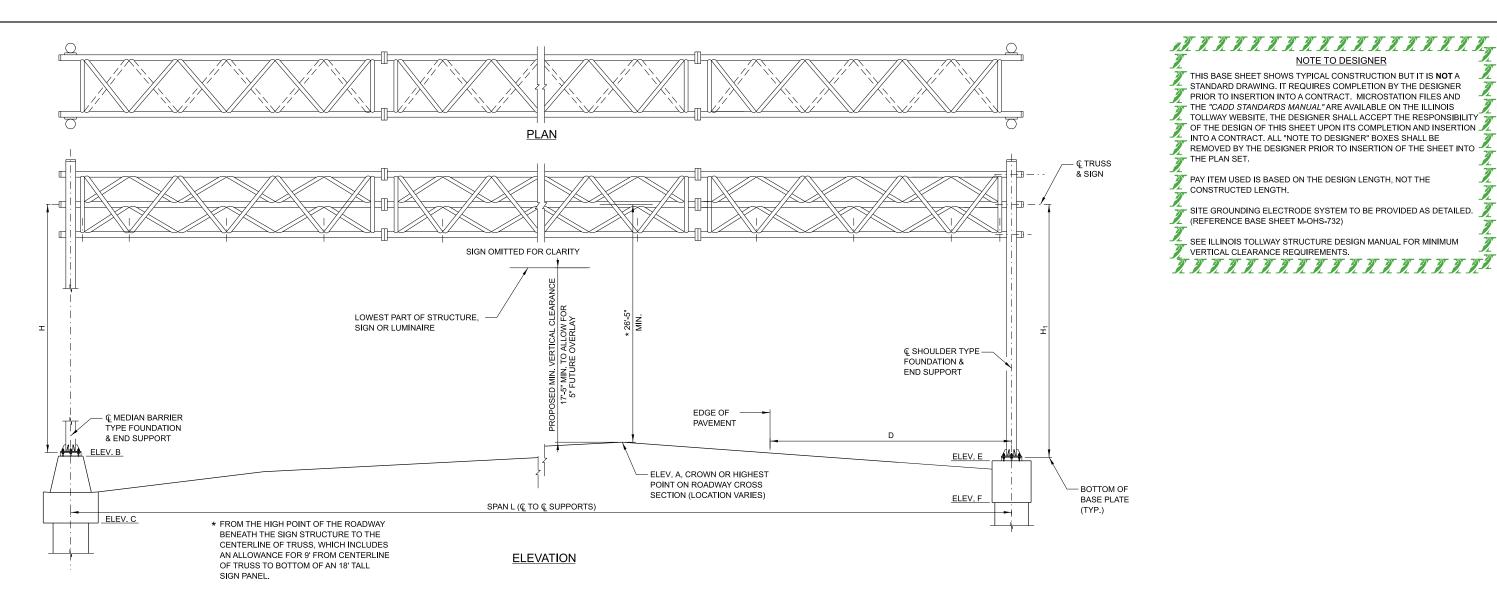
Section M	Base Sheet	Drawings										
	Drawing	Modification Summary Effective: 03-01-2025										
		Overhead Sign (OHS)-Series 720										
		This set of base sheets has been converted from v8i to OpenRoads.										
	M-OHS-720	OVERHEAD SIGN STRUCTURE SPAN TYPE SUMMARY AND BILL OF MATERIAL										
		Added pay item for Drilled Shaft in Rock.										
	M 0110 704	OVERVIEWS CONTRIBUTIONS CANTILEVED TYPE CUMMARY AND BULL OF MATERIAL										
	M-OHS-721	OVERHEAD SIGN STRUCTURE CANTILEVER TYPE SUMMARY AND BILL OF MATERIAL										
		Added pay item for Drilled Shaft in Rock.										
	M-OHS-722	OVERHEAD SIGN STRUCTURE ENTRANCE MONOTUBE TYPE (STEEL) MAINLINE RAMP SUMMARY AND BILL OF MATERIAL										
		Added pay item for Drilled Shaft in Rock.										
	M-OHS-723	OVERHEAD SIGN STRUCTURE EXIT MONOTUBE TYPE (STEEL) MAINLINE RAMP SUMMARY AND BILL OF MATERIAL										
		Added pay item for Drilled Shaft in Rock.										
	M-OHS-724	OVERHEAD SIGN STRUCTURE BUTTERFLY TYPE SUMMARY AND BILL OF MATERIAL										
		Added pay item for Drilled Shaft in Rock.										
	M-OHS-725	OVERHEAD SIGN STRUCTURE ENTRANCE MONOTUBE TYPE (STEEL) AET RAMP SUMMARY AND BILL OF MATERIAL										
		Added pay item for Drilled Shaft in Rock. Updated elevations to match with F15 standard.										
	M-OHS-726	OVERHEAD SIGN STRUCTURE EXIT MONOTUBE TYPE (STEEL) AET RAMP SUMMARY AND BILL OF MATERIAL										
		Added pay item for Drilled Shaft in Rock. Updated elevations to match with F15 standard.										
	M-OHS-727	OVERHEAD SIGN STRUCTURE MONOTUBE TYPE (STEEL) CASH-IPO RAMP SUMMARY AND BILL OF MATERIAL										
	M 0110 700	OVERVIEAD CION CERUCEURE OR AN EVER CUMMARY AND BULL OF MATERIAL										
	M-OHS-728	OVERHEAD SIGN STRUCTURE SPAN TYPE SUMMARY AND BILL OF MATERIAL  Added pay item for Drilled Shaft in Rock.										
		Added pay item for Drilled Shart in Rock.										
	M-OHS-729	OVERHEAD SIGN STRUCTURE ITS GANTRY FRAME (STEEL) SINGLE SPAN STRUCTURE DETAILS										
	Sheet 1	Added pay item for Drilled Shaft in Rock.										
	Sheet 5	Revised notes to ensure that stainless steel locknut is paired with stainless steel threaded rod and galvanized locknut is paired with galvanized threaded rod.										
	M-OHS-730	OVERHEAD SIGN STRUCTURE ITS GANTRY FRAME (STEEL) TWO-SPAN STRUCTURE DETAILS										
	Sheet 1	Added pay item for Drilled Shaft in Rock.										
	Sheet 6	Revised notes to ensure that stainless steel locknut is paired with stainless steel threaded rod and galvanized locknut is paired with galvanized threaded rod.										

## Illinois Tollway Base Sheet Revisions

Section M	Base Sheet	<b>Drawings</b>	
	Drawing	Modification Summary	Effective: 03-01-2025
		Overhead Sign (O	HS)-Series 720
		This set of base sheets has been converte	ed from v8i to OpenRoads.
	M-OHS-734	OVERHEAD SIGN STRUCTURE SINGLE SUMMARY AND BILL OF MATERIAL	MONOTUBE TYPE (STEEL) AET RAMP
	M-OHS-735	OVERHEAD SIGN STRUCTURE SINGLE SUMMARY AND BILL OF MATERIAL	MONOTUBE TYPE (STEEL) AET RAMP







THIS BASE SHEET SHOWS TYPICAL CONSTRUCTION BUT IT IS **NOT** A STANDARD DRAWING. IT REQUIRES COMPLETION BY THE DESIGNER PRIOR TO INSERTION INTO A CONTRACT. MICROSTATION FILES AND THE "CADD STANDARDS MANUAL" ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE DESIGN OF THIS SHEET UPON ITS COMPLETION AND INSERTION INTO A CONTRACT. ALL "NOTE TO DESIGNER" BOXES SHALL BE  $m{y}$  removed by the designer prior to insertion of the sheet into  $extcolor{4}$ THE PLAN SET.

PAY ITEM USED IS BASED ON THE DESIGN LENGTH, NOT THE CONSTRUCTED LENGTH.

- SITE GROUNDING ELECTRODE SYSTEM TO BE PROVIDED AS DETAILED.  $\,\,$   $\,$   $\,$ (REFERENCE BASE SHEET M-OHS-732)

SEE ILLINOIS TOLLWAY STRUCTURE DESIGN MANUAL FOR MINIMUM VERTICAL CLEARANCE REQUIREMENTS. TERRETER TERRETARE

													SUMMARY							
STRUCTURE	CTATION	DESIGN	l	T 1 OF ARD F1		E	ELEVATION	NS		PROPOSED MINIMUM	D		MEDIAN BARRIER END SUPPORT		SHOULDER END SUPPORT	HEIGHT OF	TOTAL S <b>I</b> GN	FOUNDATION FOR OVERHEAD SIGN STRUCTURE	REINFORCEMENT BARS, EPOXY	PROTECTIVE COAT
NUMBER	STATION	TRUSS TYPE	SPAN L	Р	A	В	С	E	F	VERTICAL CLEARANCE	ט	Н	PIPE COLUMN (NOMINAL DIAMETER) (INCH)	H <sub>1</sub>	PIPE COLUMN (NOMINAL DIAMETER) (INCH)	TALLEST SIGN	AREA (SQ FT)	CLASS SI CONCRETE (CU YD) CLASS DS CONCRETE (CU YD)	COATED (POUND)	(SQ YD)
	1									1			1				TOTAL			

	TOTAL BILL OF MATERIAL		
PAY ITEM	DESCRIPTION	UNIT	TOTAL
JS733XXX	OVERHEAD SIGN STRUCTURE, SPAN TYPE (ALUMINUM)	FOOT	XXX'-XX"
JS734A10	FOUNDATION FOR OVERHEAD SIGN STRUCTURE, SPAN TYPE	CU YD	XXX.X
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	X,XXX
50300300	PROTECTIVE COAT	SQ YD	XXX.X
* 51604000	DRILLED SHAFT IN ROCK	CU YD	XXX.X

ZIIIIIIIIIIIIIIIIII NOTE TO DESIGNER \* INCLUDE THIS PAY ITEM IF ROCK IS ENCOUNTERED. \*INCLUDE THIS PAY ITEM IF ROOK IS ENCOUNTERED.

QUANTITY OF DRILLED SHAFT IN ROCK IS NOT

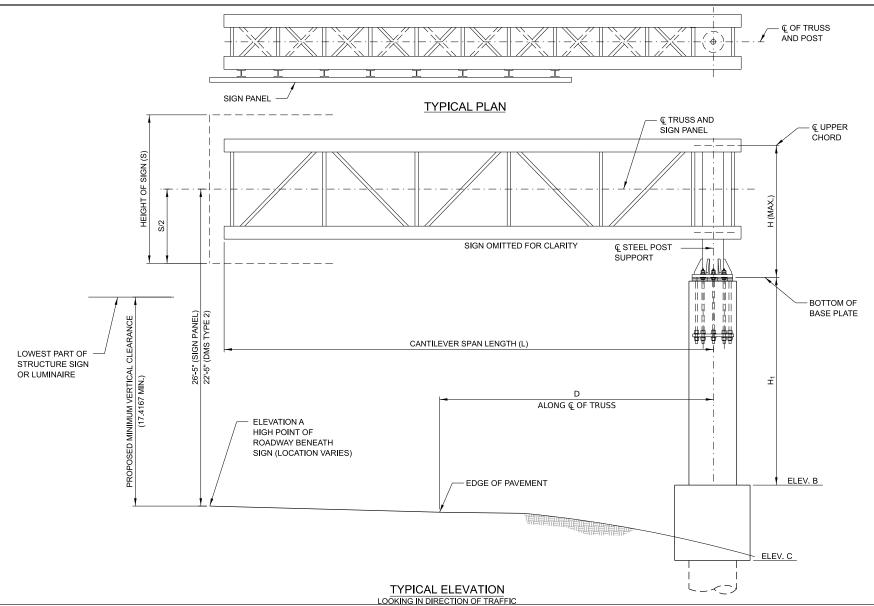
INCLUDED IN THE PAY ITEM JS734A10.



OVERHEAD SIGN STRUCTURE SPAN TYPE SUMMARY AND BILL OF MATERIAL

WORK THIS SHEET WITH STANDARD F1 2025-03 M-OHS-720 1 OF 1

NOTE:



								SUI	MMARY							
STRUCTURE	CTATION	DESIGN	SPAN	E	LEVATION	IS	PROPOSED MINIMUM	D			HEIGHT OF	TOTAL SIGN	FOR OV	DATION ERHEAD RUCTURE	REINFORCEMENT BARS, EPOXY	PROTECTIVE
NUMBER	STATION	TRUSS TYPE	L	A	В	С	VERTICAL CLEARANCE		Н	H <sub>1</sub>	TALLEST SIGN	AREA (SQ FT)	CLASS SI CONCRETE (CU YD)	CLASS DS CONCRETE (CU YD)	COATED (POUND)	COAT (SQ YD)
			1							1	-	TOTAL				

	TOTAL BILL OF MATERIAL		
PAY ITEM	DESCRIPTION	UNIT	TOTAL
JS733BXX	OVERHEAD SIGN STRUCTURE, CANTILEVER TYPE (STEEL)	FOOT	XXX'-XX"
JS734B10	FOUNDATION FOR OVERHEAD SIGN STRUCTURE, CANTILEVER TYPE	CU YD	XXX.X
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	X,XXX
50300300	PROTECTIVE COAT	SQ YD	XXX.X
* 51604000	DRILLED SHAFT IN ROCK	CU YD	XXX.X

NOTE TO DESIGNER

NOTE TO DESIGNER

INCLUDE THIS PAY ITEM IF ROCK IS ENCOUNTERED.
QUANTITY OF DRILLED SHAFT IN ROCK IS NOT
INCLUDED IN THE PAY ITEM JS734B10.

# NOTE TO DESIGNER

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A STANDARD DRAWING. IT REQUIRES COMPLETION BY THE
DESIGNER PRIOR TO INSERTION INTO A CONTRACT.
MICROSTATION FILES AND THE "CADD STANDARDS MANUAL" ARE
AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE DESIGNER
SHALL ACCEPT THE RESPONSIBILITY OF THE DESIGN OF THIS
SHEET UPON ITS COMPLETION AND INSERTION INTO A
CONTRACT. ALL "NOTE TO DESIGNER" BOXES SHALL BE
REMOVED BY THE DESIGNER PRIOR TO INSERTION OF THE SHEET
INTO THE PLAN SET.

SITE GROUNDING ELECTRODE SYSTEM TO BE PROVIDED AS DETAILED. (REFERENCE BASE SHEET M-ITS-1105 OR M-OHS-733)

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F INSTALLATIONS NOT WITHIN DIMENSIONAL LIMITS SHOWN REQUIRE SPECIAL ANALYSIS FOR ALL COMPONENTS.

SEE ILLINOIS TOLLWAY STRUCTURE DESIGN MANUAL FOR MINIMUM VERTICAL CLEARANCE REQUIREMENTS.

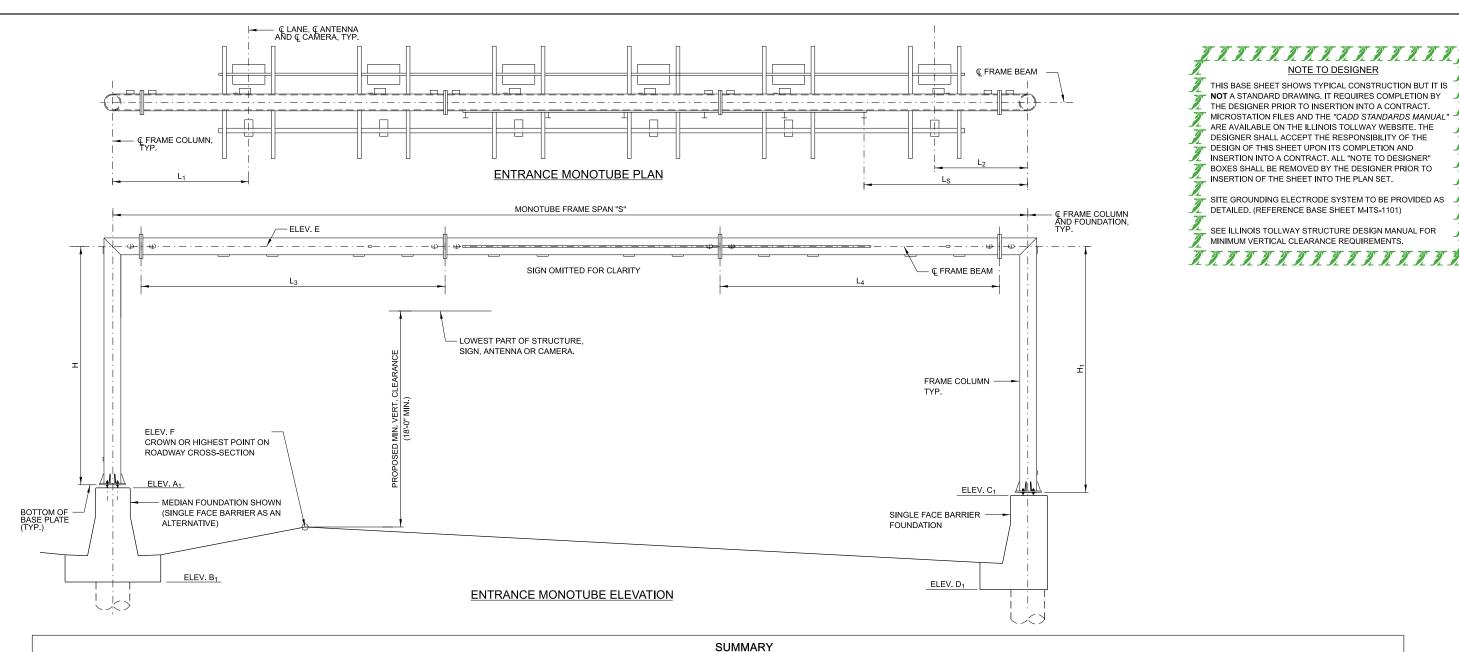
NOTE: WORK THIS SHEET WITH STANDARD F4



OVERHEAD SIGN STRUCTURE CANTILEVER TYPE SUMMARY AND TOTAL BILL OF MATERIAL

025-03

M-OHS-721 SHEET: 1 OF 1



THIS BASE SHEET SHOWS TYPICAL CONSTRUCTION BUT IT IS NOT A STANDARD DRAWING. IT REQUIRES COMPLETION BY THE DESIGNER PRIOR TO INSERTION INTO A CONTRACT. MICROSTATION FILES AND THE "CADD STANDARDS MANUAL" , ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE DESIGN OF THIS SHEET UPON ITS COMPLETION AND DESIGN OF THIS SHEET UPON TIS COMMUNICATION AND INSERTION INTO A CONTRACT, ALL "NOTE TO DESIGNER PRIOR TO BOXES SHALL BE REMOVED BY THE DESIGNER PRIOR TO , INSERTION OF THE SHEET INTO THE PLAN SET. SITE GROUNDING ELECTRODE SYSTEM TO BE PROVIDED AS DETAILED. (REFERENCE BASE SHEET M-ITS-1101)

SEE ILLINOIS TOLLWAY STRUCTURE DESIGN MANUAL FOR

MINIMUM VERTICAL CLEARANCE REQUIREMENTS.

														SL	JMMAF	RY										
STRUCTURE	STATION	MONOTUBE FRAME	SPAN			ELEVA	TIONS			PROPOSED MINIMUM	SH	EET 2 O	F STANI	DARD F	13			SIGN AREA	SIGN	FOR OV	DATION ERHEAD RUCTURE	OUTSIDE CONCRETE BARRIER	REINFORCEMENT BARS, EPOXY	MED <b>I</b> AN BARR <b>I</b> ER	MEDIAN BARRIER	PROTECTIVE COAT
NUMBER	STATION	TYPE	"S"	A <sub>1</sub>	B <sub>1</sub>	C <sub>1</sub>	D <sub>1</sub>	E	F	VERTICAL CLEARANCE	L <sub>S</sub>	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	L <sub>4</sub>	н	H <sub>1</sub>	(SQ FT)	LENGTH	CLASS SI CONCRETE (CU YD)	CLASS DS CONCRETE (CU YD)	CONCRETE STRUCTURES (CU YD)	COATED (POUND)	(FOOT)	TRANSITION (FOOT)	(SQ YD)
																			TOTAL							

	TOTAL BILL OF MATERIAL			
PAY ITEM	DESCRIPTION	UNIT	TOTAL	
JS733710	OVERHEAD SIGN STRUCTURE, MAINLINE ENTRANCE MONOTUBE TYPE (STEEL)	FOOT	XXX'-XX"	1 /
JS734E10	FOUNDATION FOR OVERHEAD SIGN STRUCTURE, MAINLINE MONOTUBE TYPE	CU YD	XXX.X	7.
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	X,XXX	] ]
50300300	PROTECTIVE COAT	SQ YD	XXX.X	7
JT637550	CONCRETE BARRIER MEDIAN TRANSITION, DOUBLE FACE, AT PLAZA MONOTUBE	FOOT	XX'-XX"	77
JT637554	CONCRETE BARRIER MEDIAN, DOUBLE FACE, AT PLAZA MONOTUBE	FOOT	XX'-XX"	] 🏒
* 51604000	DRILLED SHAFT IN ROCK	CU YD	XXX.X	

NOTE TO DESIGNER \* INCLUDE THIS PAY ITEM IF ROCK IS ENCOUNTERED. QUANTITY OF DRILLED SHAFT IN ROCK IS NOT INCLUDED IN THE PAY ITEM JS734E10. 

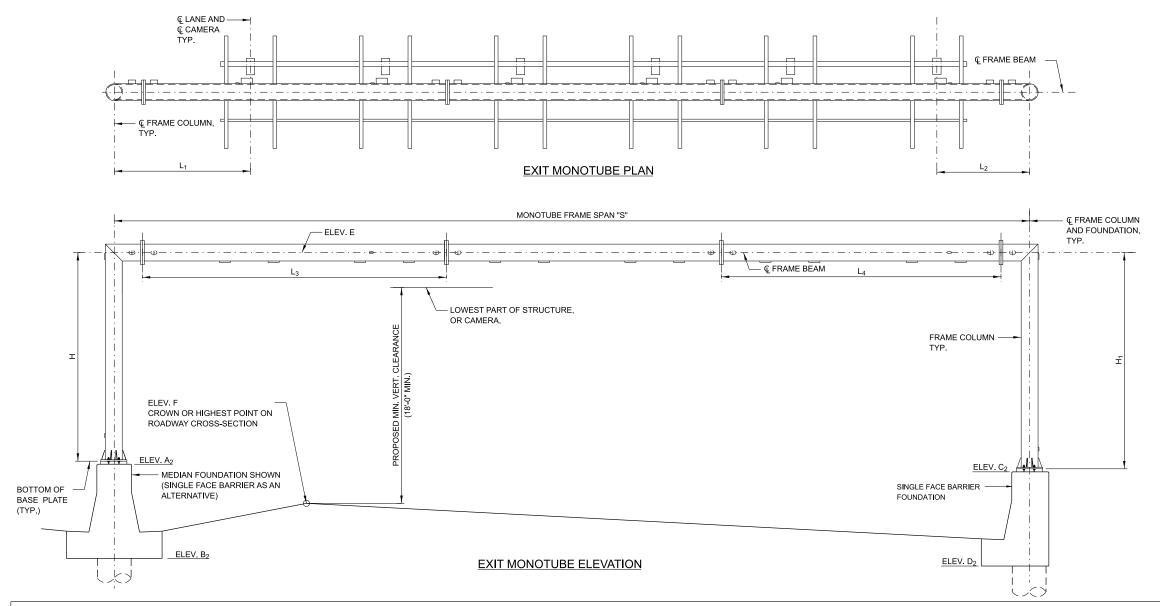


OVERHEAD SIGN STRUCTURE ENTRANCE MONOTUBE TYPE (STEEL) MAINLINE SUMMARY AND BILL OF MATERIAL

WORK THIS SHEET WITH STANDARD F13

NOTE:

AND	DILL OI	MAILI	IVE
VERSION:	BA	SE SHEET:	SHL
2025-03	M_C	)HS-722	1 0



MINININANANA.	
NOTE TO DESIGNER	
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SITE GROUNDING ELECTRODE SYSTEM TO BE PROVIDED AS DETAILED. (REFERENCE BASE SHEET M-ITS-1101)	
SEE ILLINOIS TOLLWAY STRUCTURE DESIGN MANUAL FOR MINIMUM VERTICAL CLEARANCE REQUIREMENTS.	

STRUCTURE NUMBER         AND OUT TOTAL FRAME TYPE         SECUNDATION FRAME TYPE TYPE TYPE TYPE TYPE TYPE TYPE TYP													SL	JMMAF	RY								
TYPE S A2 B2 C2 D2 E F CLEARANCE LS L1 L2 L3 L4 H H1 (SQ FT) CLASS SI CLASS DS CONCRETE CONCRETE CONCRETE STRUCTURES (FOOT) (FOOT) (FOOT) (FOOT)	STRUCTURE	CTATION	SPAN			ELEV	ATIONS			SH	EET 2 O	F STAN	DARD F	13				SIGN	FOR OV	ERHEAD	CONCRETE		
	NUMBER	STATION	"S"	A <sub>2</sub>	B <sub>2</sub>	C <sub>2</sub>	D <sub>2</sub>	E	F	L <sub>S</sub>	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	L <sub>4</sub>	Н	H <sub>1</sub>	(SQ FT)	LENGTH	CONCRETE	CONCRETE	STRUCTURES	(FOOT)	
													-										
													+										
TOTAL																		TOTAL					

	TOTAL BILL OF MATERIAL		
PAY ITEM	DESCRIPTION	UNIT	TOTAL
JS733750	OVERHEAD SIGN STRUCTURE, MAINLINE EXIT MONOTUBE TYPE (STEEL)	FOOT	XXX'-XX"
JS734E10	FOUNDATION FOR OVERHEAD SIGN STRUCTURE, MAINLINE MONOTUBE TYPE	CU YD	XXX.X
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	X,XXX
50300300	PROTECTIVE COAT	SQ YD	XXX.X
JT637550	CONCRETE BARRIER MEDIAN TRANSITION, DOUBLE FACE, AT PLAZA MONOTUBE	FOOT	XX'-XX"
JT637554	CONCRETE BARRIER MEDIAN, DOUBLE FACE, AT PLAZA MONOTUBE	FOOT	XX'-XX"
* 51604000	DRILLED SHAFT IN ROCK	CU YD	XXX.X

NOTE TO DESIGNER

\* INCLUDE THIS PAY ITEM IF ROCK IS ENCOUNTERED.

QUANTITY OF DRILLED SHAFT IN ROCK IS NOT

INCLUDED IN THE PAY ITEM JS734E10.

Illinois Tollway
OVERHEAD SIGN STRUCTU

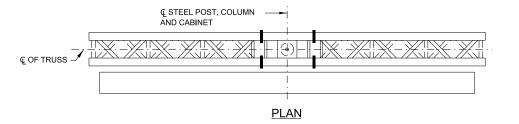
OVERHEAD SIGN STRUCTURE
EXIT MONOTUBE TYPE
(STEEL) MAINLINE SUMMARY
AND TOTAL BILL OF
MATERIAL

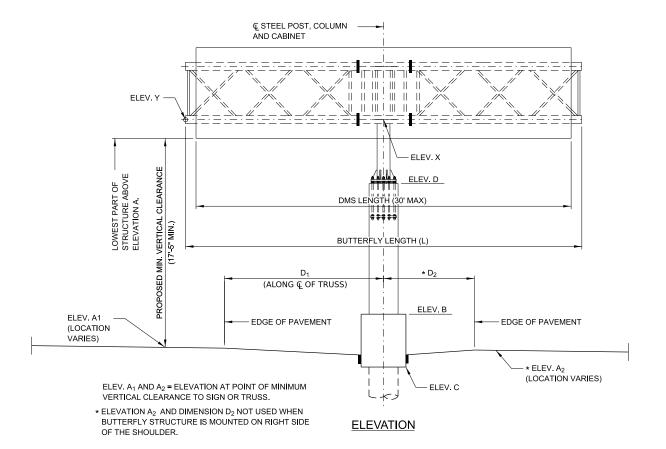
WORK THIS SHEET WITH STANDARD F13

NOTE:

VERSION: BASE SHEET:
2025-03 M-OHS-723

SHEET: 1 OF 1





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NOT A STANDARD DRAWING. IT REQUIRES COMPLETION BY
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SITE GROUNDING ELECTRODE SYSTEM TO BE PROVIDED AS DETAILED. (REFERENCE BASE SHEET M-ITS-1105 OR M-OHS-733)

SEE ILLINOIS TOLLWAY STRUCTURE DESIGN MANUAL FOR MINIMUM VERTICAL CLEARANCE REQUIREMENTS.

# NOTE TO DESIGNER \* INCLUDE THIS PAY ITEM IF ROCK IS ENCOUNTERED. QUANTITY OF DRILLED SHAFT IN ROCK IS NOT INCLUDED IN THE PAY ITEM JS734C10.

	TOTAL BILL OF MATERIAL		
PAY ITEM	DESCRIPTION	UNIT	TOTAL
JS733460	OVERHEAD SIGN STRUCTURE, BUTTERFLY TYPE	FOOT	XXX'-XX"
JS734C10	FOUNDATION FOR OVERHEAD SIGN STRUCTURE, BUTTERFLY TYPE	CU YD	XXX.XX
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	X,XXX.XX
50300300	PROTECTIVE COAT	SQ YD	X,XXX.XX
* 51604000	DRILLED SHAFT IN ROCK	CU YD	XXX.X

													5	SUMMA	RY										
STRUCTURE	STATION			E	LEVATIO	NS			PROPOSED MINIMUM	Б	Б				T 2 OF ARD F14			SHEET 8 STANDARE		DMS C	ABINET	FOR OV	DATION 'ERHEAD RUCTURE	REINFORCEMENT BARS, EPOXY	PROTECTIVE COAT
NUMBER	STATION	A <sub>1</sub>	A <sub>2</sub>	В	С	D	х	Y	VERTICAL CLEARANCE	D <sub>1</sub>	D <sub>2</sub>	L	L <sub>1</sub>	L <sub>2</sub>	P <sub>1</sub>	P <sub>2</sub>	I	J	К	TOTAL AREA (SQ FT)	TOTAL WEIGHT (POUND)	CLASS SI CONCRETE (CU YD)	CLASS DS CONCRETE (CU YD)	COATED (POUND)	(SQ YD)
XXX-XXXX	XXXXX+XX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XX.XX	XX'-XX"	XX'-XX"	XX'-XX"	XX'-XX	' XX'-XX"	XX'-XX"	XX'-XX"	XX"	X'-XX"	X'-XX"	X,XXX.XX	X,XXX	XXX.XX	XXX.XX	X,XXX	XXX.XX
																					TOTAL				

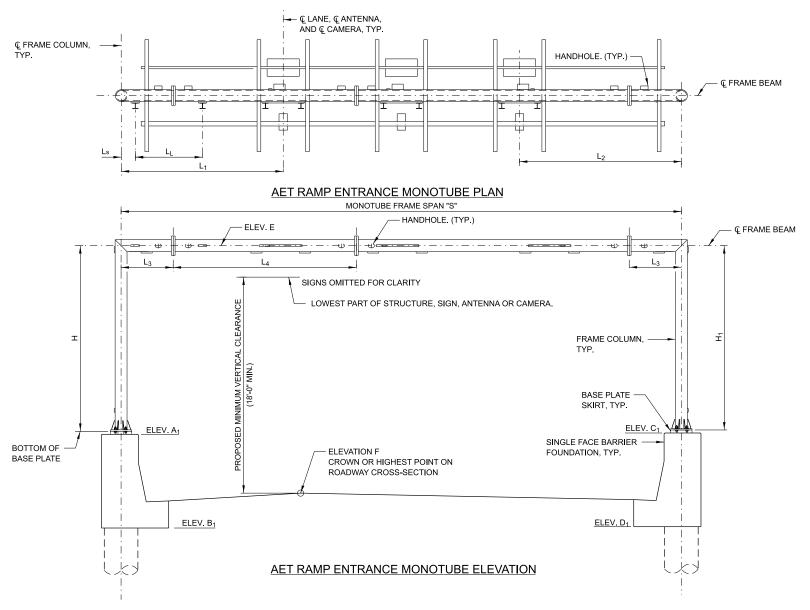
NOTE:
WORK THIS SHEET WITH STANDARD F14



OVERHEAD SIGN STRUCTURE BUTTERFLY TYPE (STEEL) SUMMARY AND TOTAL BILL OF MATERIAL

2025-03 M-OHS-724

SHEET:



												SUN	MARY									
STRUCTURE	STATION	SPAN "S"			ELEV	ATIONS			PROPOSED MINIMUM			SHEE	ET 2 OF S	ΓANDARD	) F15			FOR OV	DATION 'ERHEAD RUCTURE	SINGLE FACE BARRIER	REINFORCEMENT BARS, EPOXY	PROTECTIVE COAT
NUMBER	STATION	(FT)	A <sub>1</sub>	B <sub>1</sub>	C <sub>1</sub>	D <sub>1</sub>	E	F	VERTICAL CLEARANCE	L <sub>S</sub>	Lլ	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	L <sub>4</sub>	Н	H <sub>1</sub>	CLASS SI CONCRETE (CU YD)	CLASS DS CONCRETE (CU YD)	CONCRETE STRUCTURES (CU YD)	COATED (POUNDS)	(SQ YD)
						1																+
		'							•								TOTAL					

	TOTAL BILL OF MATERIAL		
PAY ITEM	DESCRIPTION	UN <b>I</b> T	TOTAL
JS733610	OVERHEAD SIGN STRUCTURE, AET RAMP ENTRANCE MONOTUBE TYPE (STEEL))	FOOT	XXX'-XX"
JS734F10	FOUNDATION FOR OVERHEAD SIGN STRUCTURE, RAMP MONOTUBE TYPE	CU YD	XXX.X
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	X,XXX
50300300	PROTECTIVE COAT	SQ YD	XXX.X
* 51604000	DRILLED SHAFT IN ROCK	CU YD	XXX.X

-	THURUNTUU TUUTUU TUUTUU TUUTUU TUUTUU TUUTUU TUUTUU	
1	NOTE TO DESIGNER	
1	* INCLUDE THIS PAY ITEM IF ROCK IS ENCOUNTERED	
Ž	INCLUDED IN THE PAY ITEM JS734F10.	
	TRRRRRRRRRRRRRRR	

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INSERTION OF THE SHEET INTO THE PLAN SET.

REPLACE THIS "NOTE TO DESIGNER" WITH SITE GROUNDING ELECTRODE SYSTEM DETAIL.

SITE GROUNDING ELECTRODE SYSTEM TO BE PROVIDED AS DETAILED. (REFERENCE BASE SHEET M-ITS-1101)

SEE ILLINOIS TOLLWAY STRUCTURE DESIGN MANUAL FOR MINIMUM VERTICAL CLEARANCE REQUIREMENTS. 

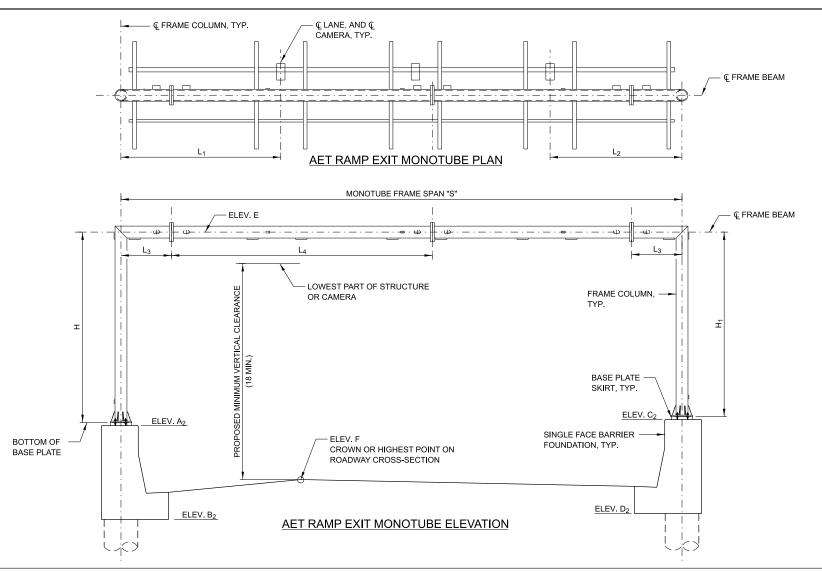
Illinois Tollway

OVERHEAD SIGN STRUCTURE ENTRANCE MONOTUBE TYPE (STEEL) AET RAMP SUMMARY AND TOTAL BILL OF MATERIAL

WORK THIS SHEET WITH STANDARD F15

NOTE:

M-OHS-725



											SU	MMARY								
STRUCTURE	STATION	SPAN "S"			ELEVA	TIONS			PROPOSED MINIMUM		SHEE	ET 2 OF S	ΓANDARD	F15		FOR OV	DATION ERHEAD RUCTURE	SINGLE FACE BARRIER	REINFORCEMENT BARS, EPOXY	PROTECTIVE COAT
NUMBER	STATION	(FT)	A <sub>2</sub>	В2	C <sub>2</sub>	D <sub>2</sub>	E	F	VERTICAL CLEARANCE	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	L <sub>4</sub>	Н	H <sub>1</sub>	CLASS SI CONCRETE (CU YD)	CLASS DS CONCRETE (CU YD)	CONCRETE STRUCTURES (CU YD)	COATED (POUNDS)	(SQ YD)
															TOTAL					

TOTAL
TOTAL
XXX'-XX"
XXX.XX
X,XXX.XX
X,XXX.XX
XXX.X
D l



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REPLACE THIS "NOTE TO DESIGNER" WITH SITE GROUNDING ELECTRODE SYSTEM DETAIL.

SITE GROUNDING ELECTRODE SYSTEM TO BE PROVIDED AS DETAILED. (REFERENCE BASE SHEET M-ITS-1101)

SEE ILLINOIS TOLLWAY STRUCTURE DESIGN MANUAL FOR MINIMUM VERTICAL CLEARANCE REQUIREMENTS.

NOTE:

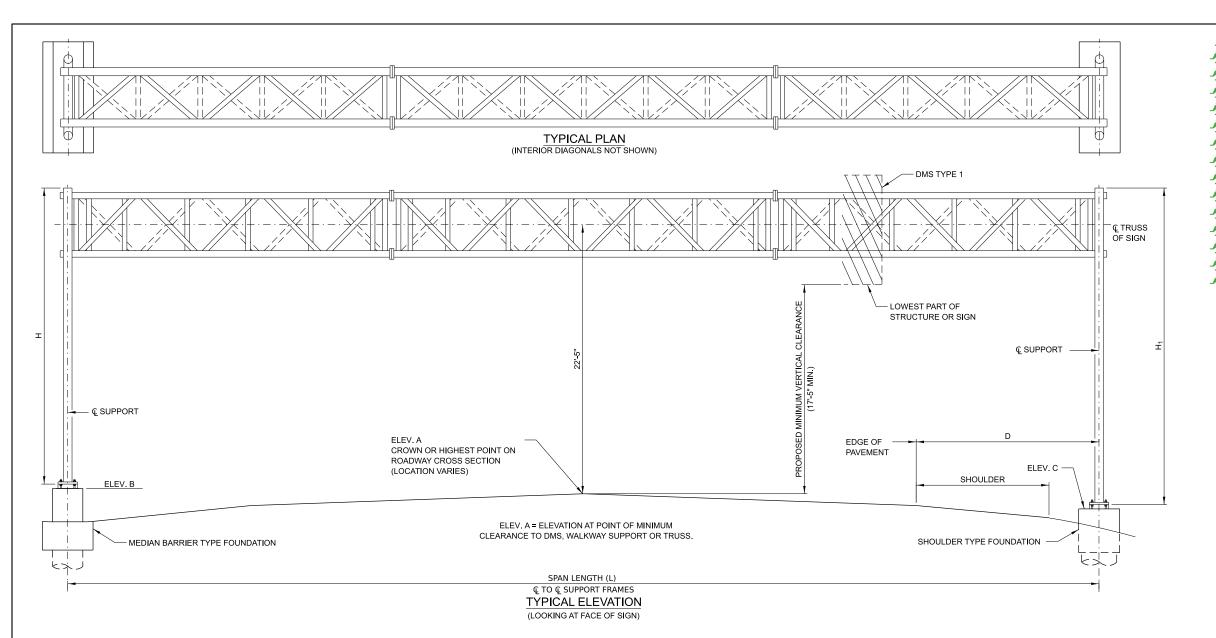
WORK THIS SHEET WITH STANDARD F15



AND TOTAL BILL OF

MATERIAL 2025-03

M-OHS-726 1 OF 1



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 SEE ILLINOIS TOLLWAY STRUCTURE DESIGN MANUAL FOR MINIMUM VERTICAL CLEARANCE REQUIREMENTS.

													SI	JMMARY												
STRUCTURE	STATION	DESIGN TRUSS	SPAN LENGTH		ELEVATIOI	NS	PROPOSED MINIMUM		DAT <b>I</b> ON PE	D H	H₁		ET 2 OF ARD F17	SHEET 5 OF STANDARD F17			T 10 OF ARD F17		SHEE <sup>-</sup> STAND	T 11 OF ARD F17	DMS 1	ГҮРЕ 1	FOR OV	DATION ERHEAD RUCTURE	REINFORCEMENT BARS, EPOXY	PROTECTIVE COAT
NUMBER	CIATION	TYPE	(FT)	A	В	С	VERTICAL CLEARANCE	LT.	RT.		111	F	Р	Α	а	b	С	L <sub>S</sub>	В	С	TOTAL AREA (SQ FT)	TOTAL WEIGHT (LBS.)	CLASS SI CONCRETE (CU YD)	CLASS DS CONCRETE (CU YD)	COATED (POUNDS)	(CU YD)
		1	11	L	L	1			1		1				ı	L	L	1	1			TOTAL				

	TOTAL BILL OF MATERIAL		
PAY ITEM	DESCRIPTION	UNIT	TOTAL
JS7338XX	OVERHEAD SIGN STRUCTURE, SPAN TYPE (STEEL)	FOOT	XXX'-XX"
JS734A10	FOUNDATION FOR OVERHEAD SIGN STRUCTURE, SPAN TYPE	CU YD	XXX.XX
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	X,XXX
50300300	PROTECTIVE COAT	SQ YD	XXX.X
* 51604000	DRILLED SHAFT IN ROCK	CU YD	XXX.X

NOTE TO DESIGNER

NOTE TO DESI



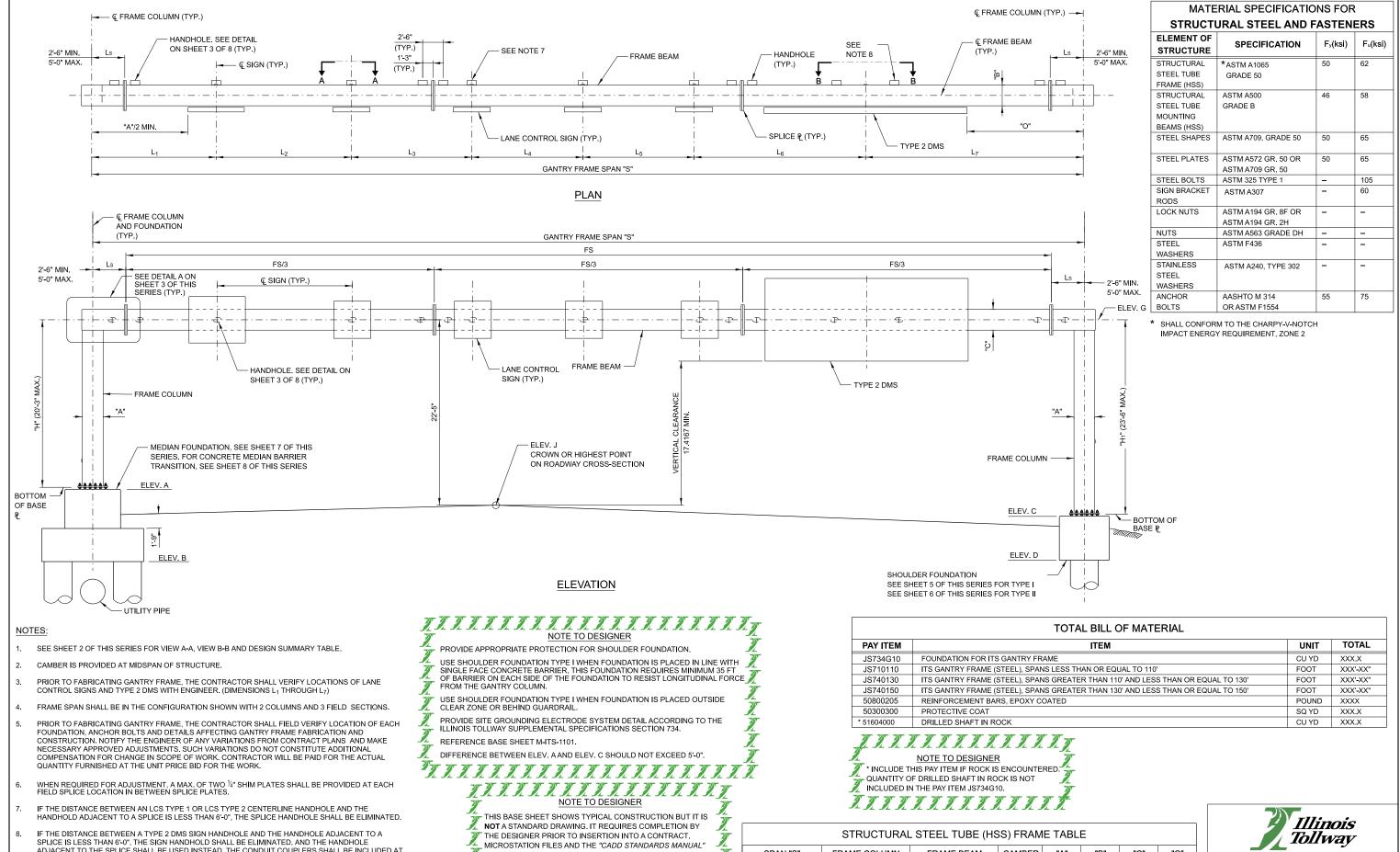
OVERHEAD SIGN STRUCTURE SPAN TYPE (STEEL) SUMMARY AND TOTAL BILL OF MATERIAL

1 OF 1

WORK THIS SHEET WITH STANDARD F17

NOTE:

VERSION: BASE SHEET:
2025-03 M-OHS-728



FRAME COLUMN

HSS 28x24x0.625

HSS 28x28x0.625

HSS 30x30x0.625

SPAN "S"

110'<"S"<=130'

130'<"S"<=150'

<=110

ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE

BOXES SHALL BE REMOVED BY THE DESIGNER PRIOR TO

DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE

DESIGN OF THIS SHEET UPON ITS COMPLETION AND

INSERTION INTO A CONTRACT, ALL "NOTE TO DESIGNER"

INSERTION OF THE SHEET INTO THE PLAN SET

THE HANDHOLE ADJACENT TO THE SPLICE IF THE TYPE 2 DMS SIGN HANDHOLE IS ELIMINATED.

MAINTAIN 9" MINIMUM DISTANCE BETWEEN SPLICE AND SUPPORT BRACKET

LIMIT DMS TO THE FACE OF COLUMN WITH 1'-0" MAXIMUM OVERHANG FROM THE SUPPORT BRACKET.

FRAME BEAM

HSS 28x24x0.500

HSS 28x24x0.625

HSS 30x30x0.625

CAMBER

5½"

"A"

2'-0"

2'-4"

2'-6"

"B"

2'-4"

2'-4"

2'-6"

"C"

2'-0"

2'-0"

"O"

1'-0"

1'-2"

2'-6" 1'-3"

**OVERHEAD SIGN STRUCTURE** ITS GANTRY FRAME (STEEL) SINGLE SPAN STRUCTURE DETAILS

M-OHS-729 1 of 9

#### GENERAL NOTES

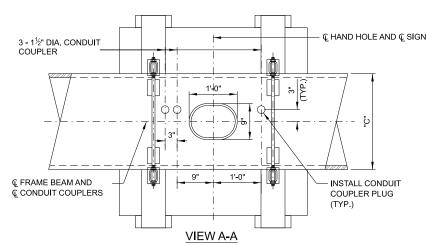
ALL EXPOSED CONCRETE EDGES SHALL HAVE A ¾" x 45° CHAMFER,
 EXCEPT WHERE SHOWN OTHERWISE. CHAMFER ON VERTICAL EDGES SHALL BE
 CONTINUED A MINIMUM OF ONE FOOT BELOW FINISHED GROUND LEVEL.

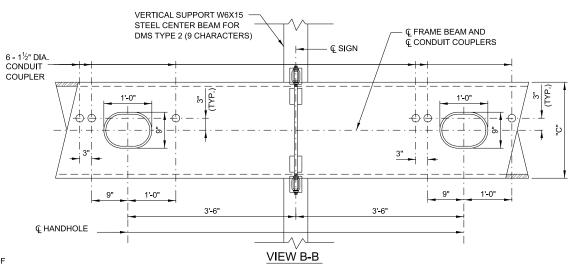
#### REINFORCEMENT BARS:

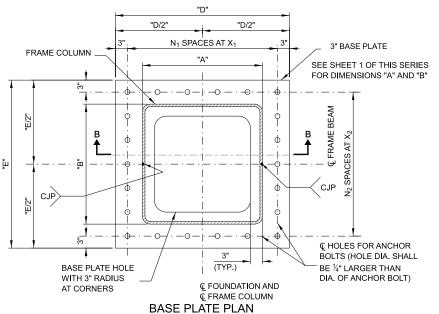
- REINFORCEMENT BARS, INCLUDING REINFORCEMENT BARS, EPOXY-COATED SHALL CONFORM TO THE REQUIREMENTS OF IDOT STANDARD SPECIFICATIONS SECTION 508 AND ARTICLE 1006.10.
- 2. REINFORCEMENT BARS DESIGNATED "(E)" SHALL BE EPOXY-COATED.
- REINFORCEMENT BENDING DETAILS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 315, "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES".
- 4. REINFORCEMENT BAR BENDING DIMENSIONS ARE OUT-TO-OUT.
- COVER FROM THE FACE OF CONCRETE TO FACE OF REINFORCEMENT BARS SHALL BE 3" FOR SURFACES FORMED AGAINST EARTH AND 2" FOR ALL OTHER SURFACES UNLESS OTHERWISE SHOWN.

#### CONSTRUCTION SPECIFICATIONS:

- ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATIONS ISSUED XXXXXX TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- ILLINOIS DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS ADOPTED XXXXXXX.
- ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED XXXXXXX.







#### DESIGN LOADING:

WIND LOAD CRITERIA

 SIGN PANEL
 60.7 P.S.F.
 BASIC WIND SPEED
 120 M.P.H.

 COLUMN/BEAM
 60.7 P.S.F.
 G
 1.14

 TYPE 2 DMS
 62 P.S.F.
 IF (FATIGUE IMPORTANCE FACTOR)
 1.0

 Kz
 1.0

TL-5 DESIGN REQUIREMENTS, WHERE APPLICABLE FOR FOUNDATION ONLY, PER AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS. NINTH EDITION WITH CURRENT INTERIMS

ICE = 3 P.S.F. (APPLIED WITH A FACTOR OF 1.0 FOR STRENGTH I ONLY)

#### **EQUIPMENT LOADS:**

LANE CONTROL SIGNS 220 LB. MAX. (4'-0" H. X 4'-0" W. X 1'-2" D. MAX.)
TYPE 2 DMS 2,700 LB. MAX. (7'-9" H. X 25'-10" W. X 1'-2" D. MAX.)

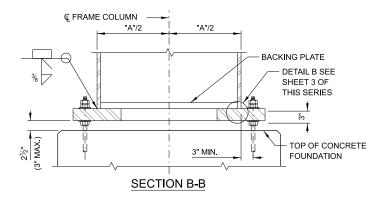
ITS GANTRY FRAMES AND FOUNDATIONS ARE DESIGNED FOR MAX, LOADING OF 2-TYPE 2 DMS (ONE OVER EACH SHOULDER) AND 1-LANE CONTROL SIGN IN EACH ADDITIONAL 12' LANE.

#### DESIGN STRESSES FOR REINFORCED CONCRETE:

fc = COMPRESSIVE STRENGTH OF CONCRETE (CLASS BS) = 4,000 P.S.I. fc = COMPRESSIVE STRENGTH OF CONCRETE (CLASS DS) = 4,000 P.S.I. fv = YIELD STRENGTH OF REINFORCEMENT BARS (GRADE 60) = 60,000 P.S.I.

#### **DESIGN SPECIFICATIONS:**

- 1. ILLINOIS TOLLWAY STRUCTURE DESIGN MANUAL, LATEST EDITION.
- AASHTO LRFD SPECIFICATION FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS LUMINAIRES
  AND TRAFFIC SIGNALS. FIRST EDITION WITH CURRENT INTERIMS
- 3. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, LATEST EDITION.
- . ILLINOIS DEPARTMENT OF TRANSPORTATION BRIDGE MANUAL, LATEST EDITION.
- 5. ILLINOIS TOLLWAY GEOTECHNICAL ENGINEER MANUAL, LATEST EDITION.



											DES	IGN SL	JMMAR	Y											
		SPAN			ELEV	ATIONS				PROPOSED												FOUN	DATION	REINFORCEMENT	PROTECTIVE
STRUCTURE NUMBER	STATION	"S" (FT)	A	В	С	D	J	G	FOUNDATION TYPE	MINIMUM VERTICAL CLEARANCE	Fs	Ls	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	L <sub>4</sub>	L <sub>5</sub>	L <sub>6</sub>	L <sub>7</sub>	н	H <sub>1</sub>		CLASS DS CONCRETE (CU YD)	BARS, EPOXY COATED (POUND)	COAT (SQ YD)
XXX-XXXX	XXXXX+XX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXXXX	XX'-XX"	XX'-XX"	XX'-XX"	XX'-XX"	XX'-XX"	XX'-XX"	XX'-XX"	XX'-XX"	XX'-XX"	XX'-XX"	XX'-XX"	XX'-XX"	XXX.X	XXX.X	X,XXX	XXX.X
יי אין אין	NNNN	י אור אור	יני דעי דעי	יער דער	מ יער יער	or or or	אר דער דער	r m	-						•						TOTAL				

#### NOTE TO DESIGNER

- . A BORING IS REQUIRED AT EACH FOUNDATION LOCATION.
- 2. NO STANDARD DRILLED SHAFT FOUNDATIONS WERE DESIGNED OR DETAILED FOR COHESION LESS SOIL CONDITIONS. REGARDLESS, THE DESIGNER MUST CONDUCT A SUBSURFACE INVESTIGATION AT EACH OVERHEAD SIGN STRUCTURE FOUNDATION TO DETERMINE THE ACTUAL SOIL PROPERTIES. SHOULD THE INVESTIGATION REVEAL THE PRESENCE OF COHESION LESS SOIL OR COHESIVE SOILS WITH PROPERTIES LESS THAN THE AVERAGES INDICATED IN THIS STANDARD, THE DESIGNER SHALL DESIGN AND DETAIL THE DRILLED SHAFT FOUNDATIONS TO MEET THE ACTUAL SOIL CONDITIONS.
- DESIGN AND CONSTRUCTION SPECIFICATIONS: THE DESIGNER IS RESPONSIBLE FOR
  UPDATING THE EDITION OF SPECIFICATIONS AND THE DATE OF PUBLICATION TO THE EDITION
  OF SPECIFICATIONS AND THE DATE OF PUBLICATION USED IN DESIGN.
   DESIGNER TO ENSURE ALL LATEST CODE REQUIREMENTS ARE MET.

5. DESIGNER TO DETERMINE THAT APPLIED LOADS DO NOT EXCEED DESIGN VALUES.

# NOTE TO DESIGNER

THIS BASE SHEET SHOWS TYPICAL CONSTRUCTION BUT IT IS

NOT A STANDARD DRAWING. IT REQUIRES COMPLETION BY

THE DESIGNER PRIOR TO INSERTION INTO A CONTRACT.

MICROSTATION FILES AND THE "CADD STANDARDS MANUAL"

ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE

DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE

DESIGN OF THIS SHEET UPON ITS COMPLETION AND

INSERTION INTO A CONTRACT. ALL "NOTE TO DESIGNER"

BOXES SHALL BE REMOVED BY THE DESIGNER PRIOR TO

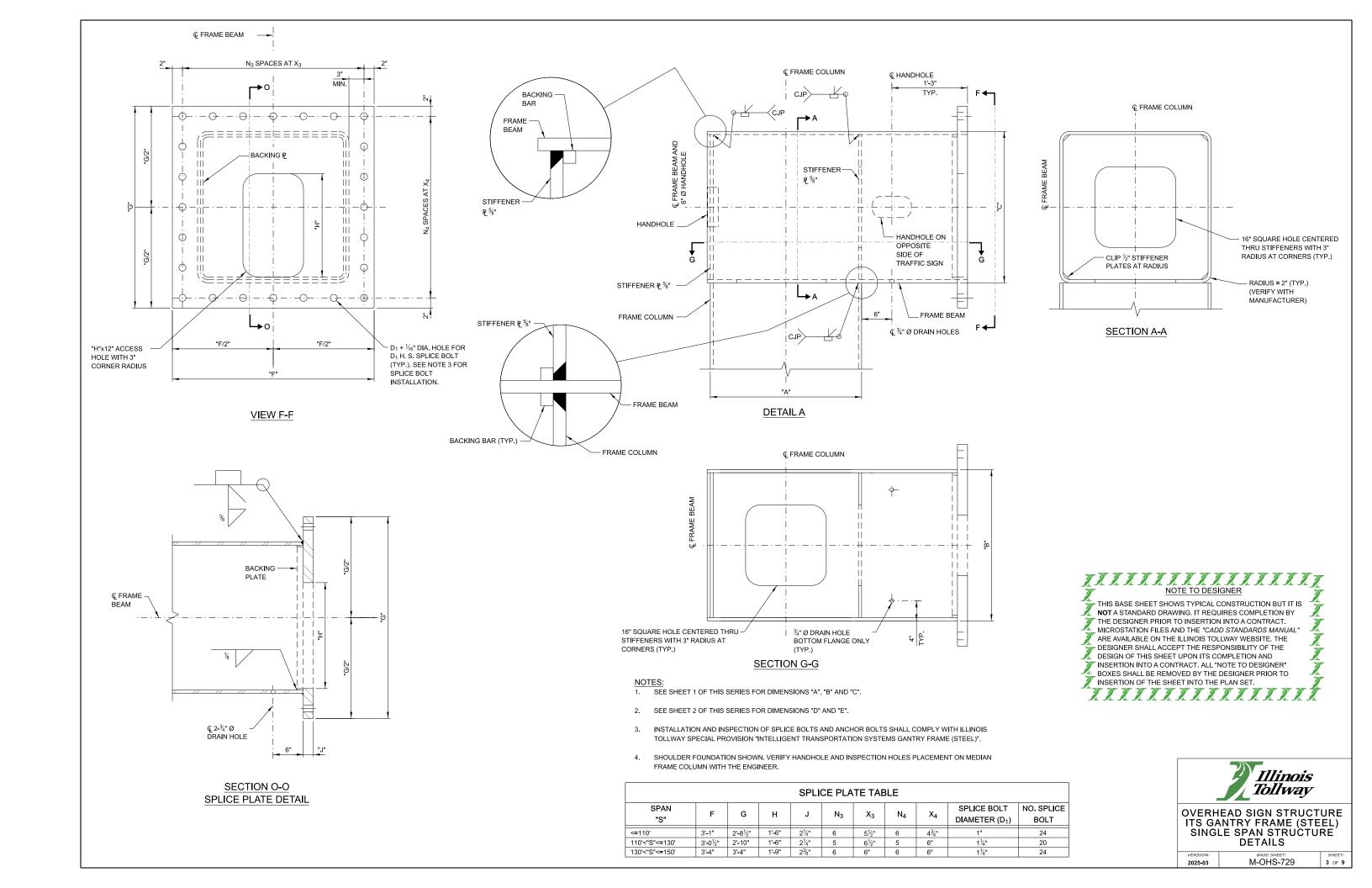
INSERTION OF THE SHEET INTO THE PLAN SET.

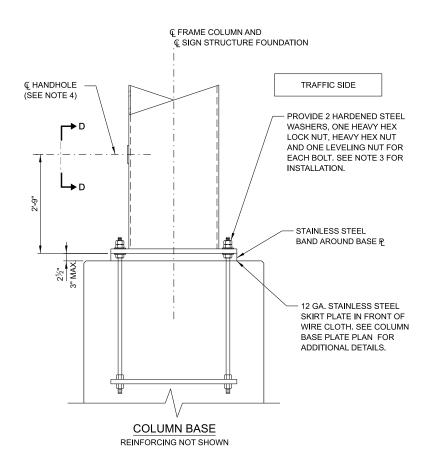
		В	SASE PL	ATE TAI	BLE - TY	PE N		
SPAN "S"	"D"	"E"	N <sub>1</sub>	X <sub>1</sub>	N <sub>2</sub>	X <sub>2</sub>	ANCHOR BOLT DIAMETER	NO. ANCHOR BOLT
<=110'	3'-2"	3'-5"	4	8"	5	7"	13/4"	18
110'<"S"<=130'	3'-5"	3'-6"	5	7"	6	6"	1¾"	22
130'<"S"<=150'	3'-7½"	3'-6"	5	7½"	6	6"	1¾"	22

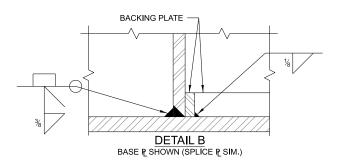


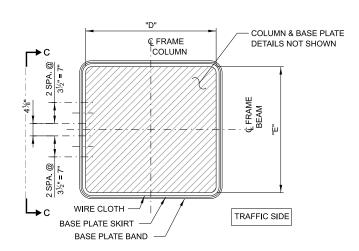
OVERHEAD SIGN STRUCTURE ITS GANTRY FRAME (STEEL) SINGLE SPAN STRUCTURE DETAILS

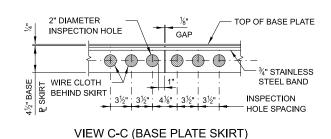
VERSION:	BASE SHEET:	SHEET
2025-03	M-OHS-729	2 OF 9



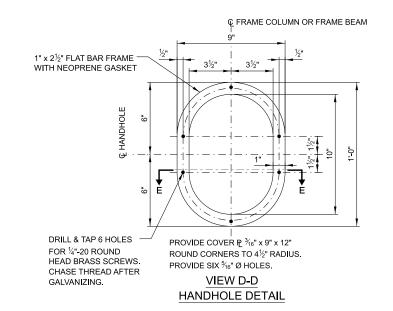


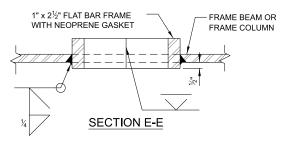






COLUMN BASE PLATE PLAN





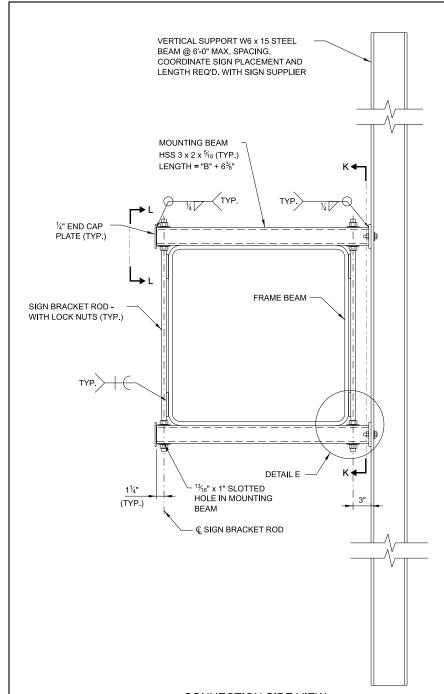


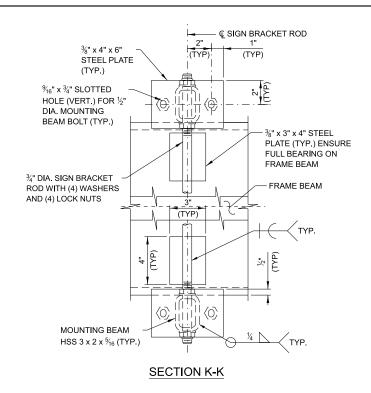


OVERHEAD SIGN STRUCTURE ITS GANTRY FRAME (STEEL) SINGLE SPAN STRUCTURE DETAILS

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version: BASE SHEET:
2025-03 M-OHS-729





VERTIC	CAL SUPPORT T	ABLE								
W6x15										
SIGN V	SIGN WIDTH									
GREATER THAN	LESS THAN OR EQUAL TO	VERTICAL SUPPORTS REQUIRED								
	8'-0"	2								
8'-0"	14'-0"	3								
14'-0"	20'-0"	4								
20'-0"	26'-0"	5								

## CONNECTION SIDE VIEW

NOTE TO DESIGNER THIS BASE SHEET SHOWS TYPICAL CONSTRUCTION BUT IT IS

NOT A STANDARD DRAWING. IT REQUIRES COMPLETION BY

MICROSTATION FILES AND THE "CADD STANDARDS MANUAL" ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE

THE DESIGNER PRIOR TO INSERTION INTO A CONTRACT.

- DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE

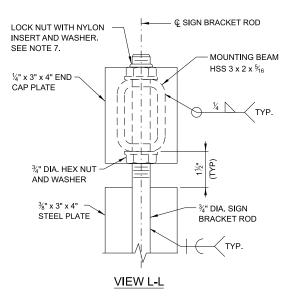
DESIGN OF THIS SHEET UPON ITS COMPLETION AND

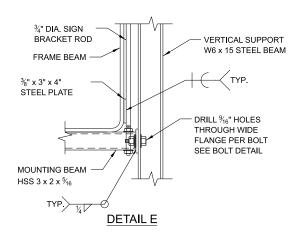
INSERTION INTO A CONTRACT. ALL "NOTE TO DESIGNER" BOXES SHALL BE REMOVED BY THE DESIGNER PRIOR TO

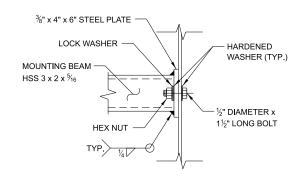
INSERTION OF THE SHEET INTO THE PLAN SET.

## NOTES:

- 1. CONNECTION DETAIL IS APPLICABLE TO DMS AND LANE CONTROL SIGN.
- VERIFY VERTICAL SUPPORT MEMBER LENGTH PRIOR TO FABRICATION.
- DMS MANUFACTURER AND LANE CONTROL SIGN MANUFACTURER SHALL DESIGN. PROVIDE AND INSTALL HORIZONTAL MOUNTING MEMBERS. VERTICAL SPACING OF HORIZONTAL MEMBERS SHALL BE DESIGNED BY MANUFACTURER. VERIFY VERTICAL SPACING WITH HOLES ON W6x15 VERTICAL SUPPORT.
- PROVIDE HIGH STRENGTH BOLTS WITH WASHERS AND LOCK NUTS TO FASTEN DMS AND LANE CONTROL SIGN TO VERTICAL SUPPORT MEMBERS.
- GALVANIZE ALL NON-STAINLESS STEEL PARTS.
- SIGN BRACKET RODS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A307.
- 7. LOCK NUTS SHALL BE EITHER STAINLESS STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A194 GRADE 8F OR ASTM A194 GRADE 2H OR CARBON STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A307 AND HOT DIP GALVANIZED AS PER AASHTO M232.
- STAINLESS STEEL NUTS/LOCKNUTS SHALL BE USED WITH STAINLESS BOLTS AND RODS AND GALVANIZED NUTS/LOCKNUTS SHALL BE USED WITH GALVANIZED THREADED BOLTS AND RODS.





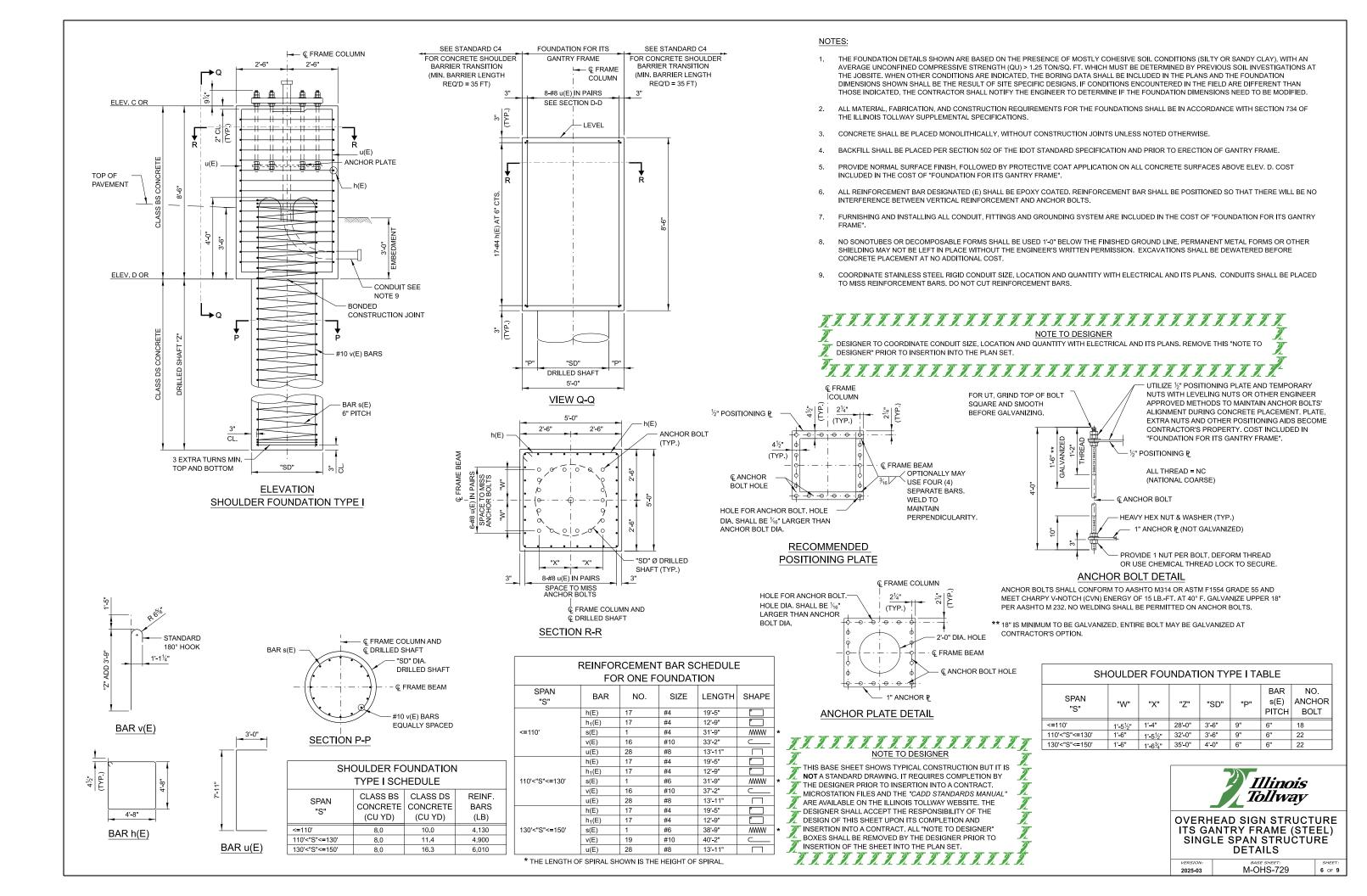


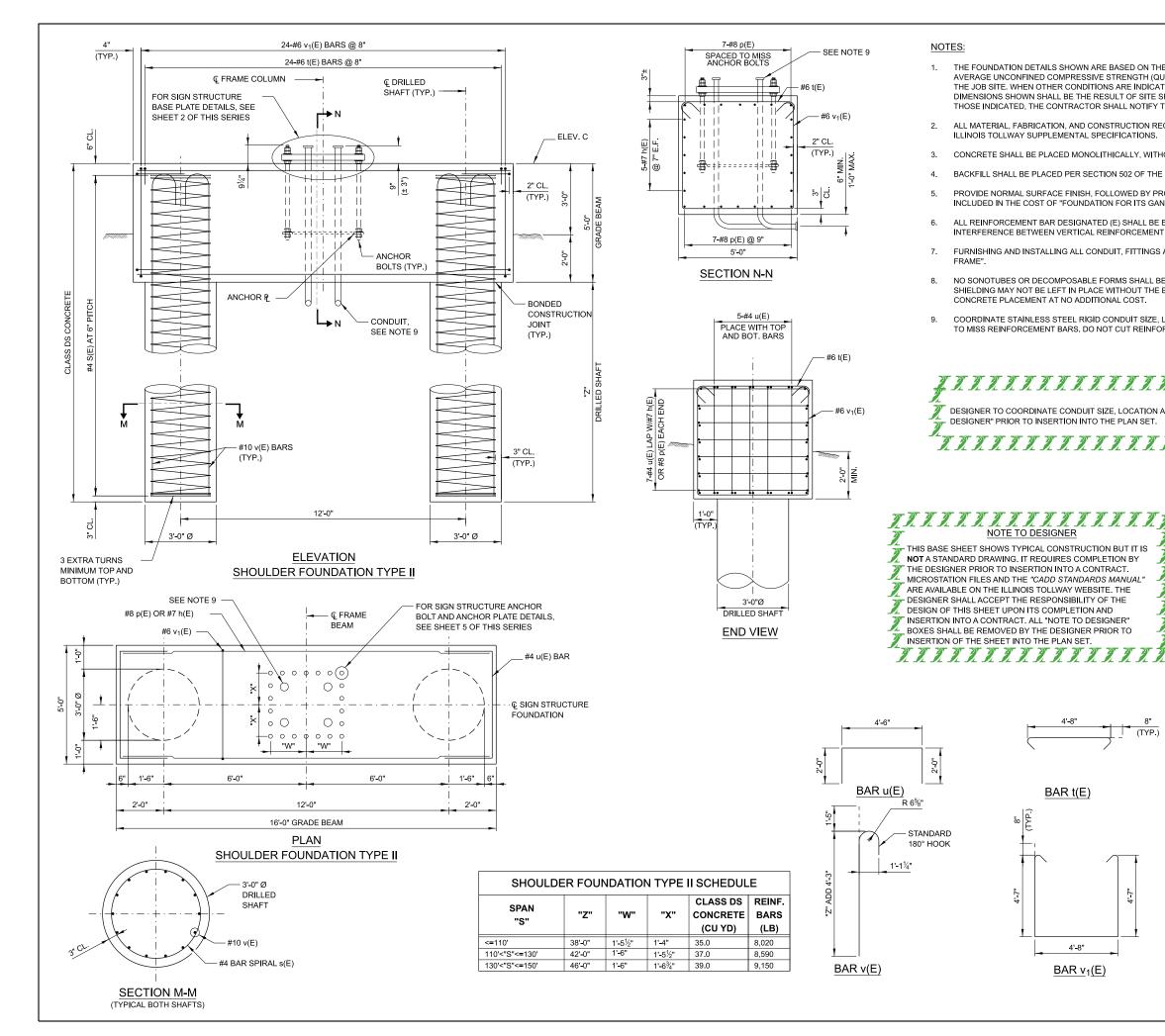
**BOLT DETAIL** SIGN BRACKET ROD NOT SHOWN FOR CLARITY



OVERHEAD SIGN STRUCTURE ITS GANTRY FRAME (STEEL) SINGLE SPAN STRUCTURE DETAILS

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#### NOTES:

- THE FOUNDATION DETAILS SHOWN ARE BASED ON THE PRESENCE OF MOSTLY COHESIVE SOIL CONDITIONS (SILTY OR SANDY CLAY), WITH AN AVERAGE UNCONFINED COMPRESSIVE STRENGTH (QU) > 1.25 TON/SQ. FT. WHICH MUST BE DETERMINED BY PREVIOUS SOIL INVESTIGATIONS AT THE JOB SITE. WHEN OTHER CONDITIONS ARE INDICATED, THE BORING DATA SHALL BE INCLUDED IN THE PLANS AND THE FOUNDATION DIMENSIONS SHOWN SHALL BE THE RESULT OF SITE SPECIFIC DESIGNS. IF CONDITIONS ENCOUNTERED IN THE FIELD ARE DIFFERENT THAN THOSE INDICATED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO DETERMINE IF THE FOUNDATION DIMENSIONS NEED TO BE MODIFIED.
- ALL MATERIAL, FABRICATION, AND CONSTRUCTION REQUIREMENTS FOR THE FOUNDATIONS SHALL BE IN ACCORDANCE WITH SECTION 734 OF THE ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATIONS.
- CONCRETE SHALL BE PLACED MONOLITHICALLY, WITHOUT CONSTRUCTION JOINTS UNLESS NOTED OTHERWISE.
- BACKFILL SHALL BE PLACED PER SECTION 502 OF THE IDOT STANDARD SPECIFICATION AND PRIOR TO ERECTION OF GANTRY FRAME.
- PROVIDE NORMAL SURFACE FINISH, FOLLOWED BY PROTECTIVE COAT APPLICATION ON ALL CONCRETE SURFACES ABOVE ELEV. D. COST INCLUDED IN THE COST OF "FOUNDATION FOR ITS GANTRY FRAME".
- ALL REINFORCEMENT BAR DESIGNATED (E) SHALL BE EPOXY COATED. REINFORCEMENT BAR SHALL BE POSITIONED SO THAT THERE WILL BE NO INTERFERENCE BETWEEN VERTICAL REINFORCEMENT AND ANCHOR BOLTS.
- FURNISHING AND INSTALLING ALL CONDUIT, FITTINGS AND GROUNDING SYSTEM ARE INCLUDED IN THE COST OF "FOUNDATION FOR ITS GANTRY
- NO SONOTUBES OR DECOMPOSABLE FORMS SHALL BE USED 1'-0" BELOW THE FINISHED GROUND LINE, PERMANENT METAL FORMS OR OTHER SHIELDING MAY NOT BE LEFT IN PLACE WITHOUT THE ENGINEER'S WRITTEN PERMISSION. EXCAVATIONS SHALL BE DEWATERED BEFORE CONCRETE PLACEMENT AT NO ADDITIONAL COST.
- COORDINATE STAINLESS STEEL RIGID CONDUIT SIZE, LOCATION AND QUANTITY WITH ELECTRICAL AND ITS PLANS. CONDUITS SHALL BE PLACED TO MISS REINFORCEMENT BARS. DO NOT CUT REINFORCEMENT BARS.



#### NOTE TO DESIGNER

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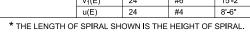
R 6%"

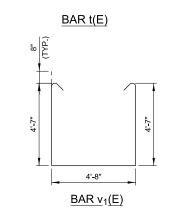
STANDARD

180° HOOK

(2 DR	ILLED SH	AFTS AN	D 1 GRA	DE BEAM	)
SPAN "S"	BAR	NO.	SIZE	LENGTH	SHAPE
	h(E)	10	#7	15'-8"	
	p(E)	14	#8	15'-8"	
"S"<=110'	t(E)	24	#6	6'-0"	
5 <=110	s(E)	2	#4	42'-3"	MWW
	v(E)	28	#10	43'-8"	
	v <sub>1</sub> (E)	24	#6	15'-2"	
	u(E)	24	#4	8'-6"	
	h(E)	10	#7	15'-8"	
110'<"S"<=130'	p(E)	14	#8	15'-8"	
	t(E)	24	#6	6'-0"	$\overline{}$
	s(E)	2	#4	46'-3"	MWW
	v(E)	28	#10	47'-8"	
	v <sub>1</sub> (E)	24	#6	15'-2"	
	u(E)	24	#4	8'-6"	
	h(E)	10	#7	15'-8"	
	p(E)	14	#8	15'-8"	
4001 41011 4 4501	t(E)	24	#6	6'-0"	$\overline{}$
130'<"S"<=150'	s(E)	2	#4	50'-3"	MWW
	v(E)	28	#10	51'-8"	
	v <sub>1</sub> (E)	24	#6	15'-2"	
	u(E)	24	#4	8'-6"	$\overline{}$
* THE LENGTH (	OF SPIRAL SH	OWN IS THE	HEIGHT OF	SPIRAL.	-

REINFORCEMENT BAR SCHEDULE



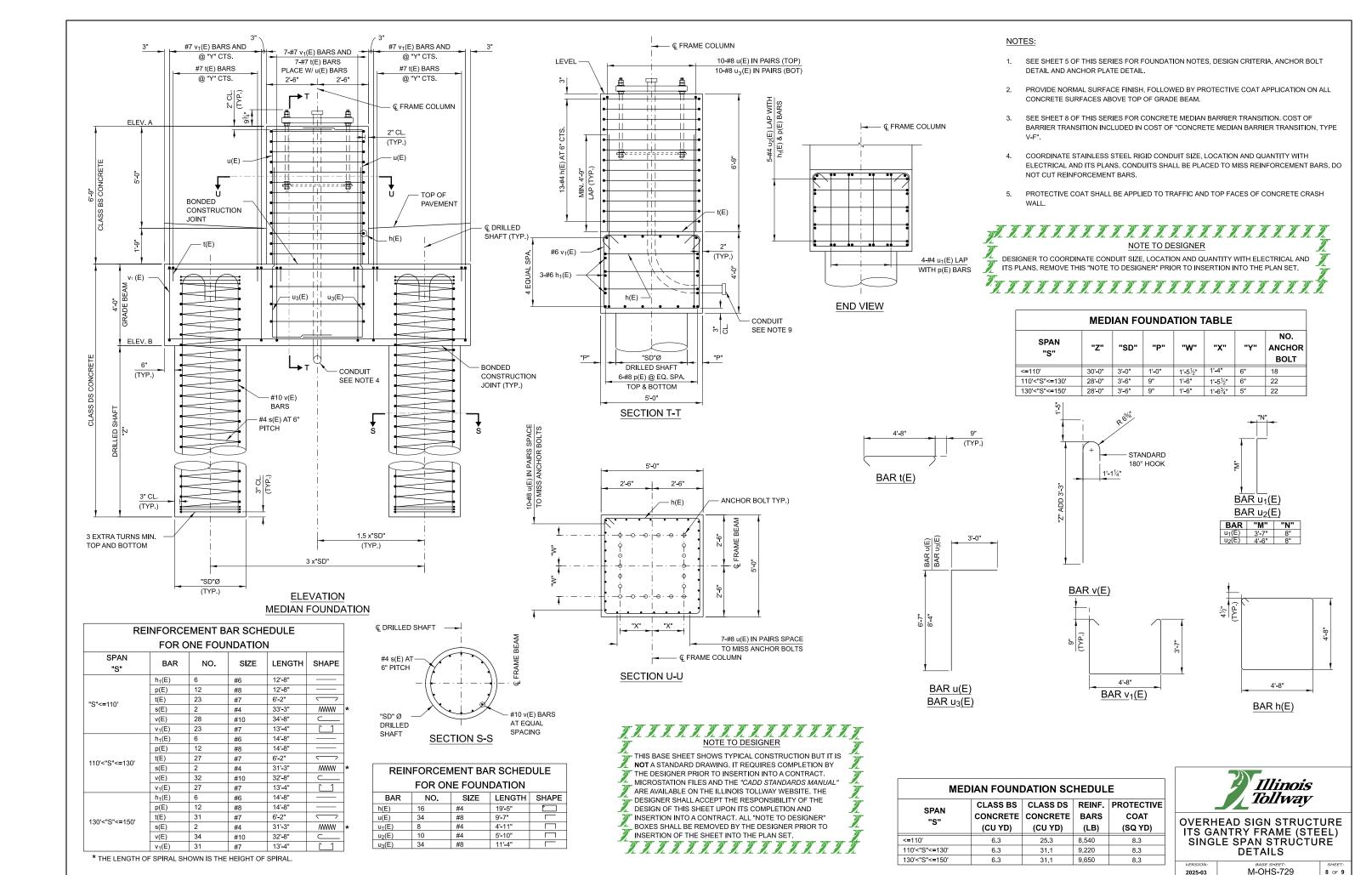


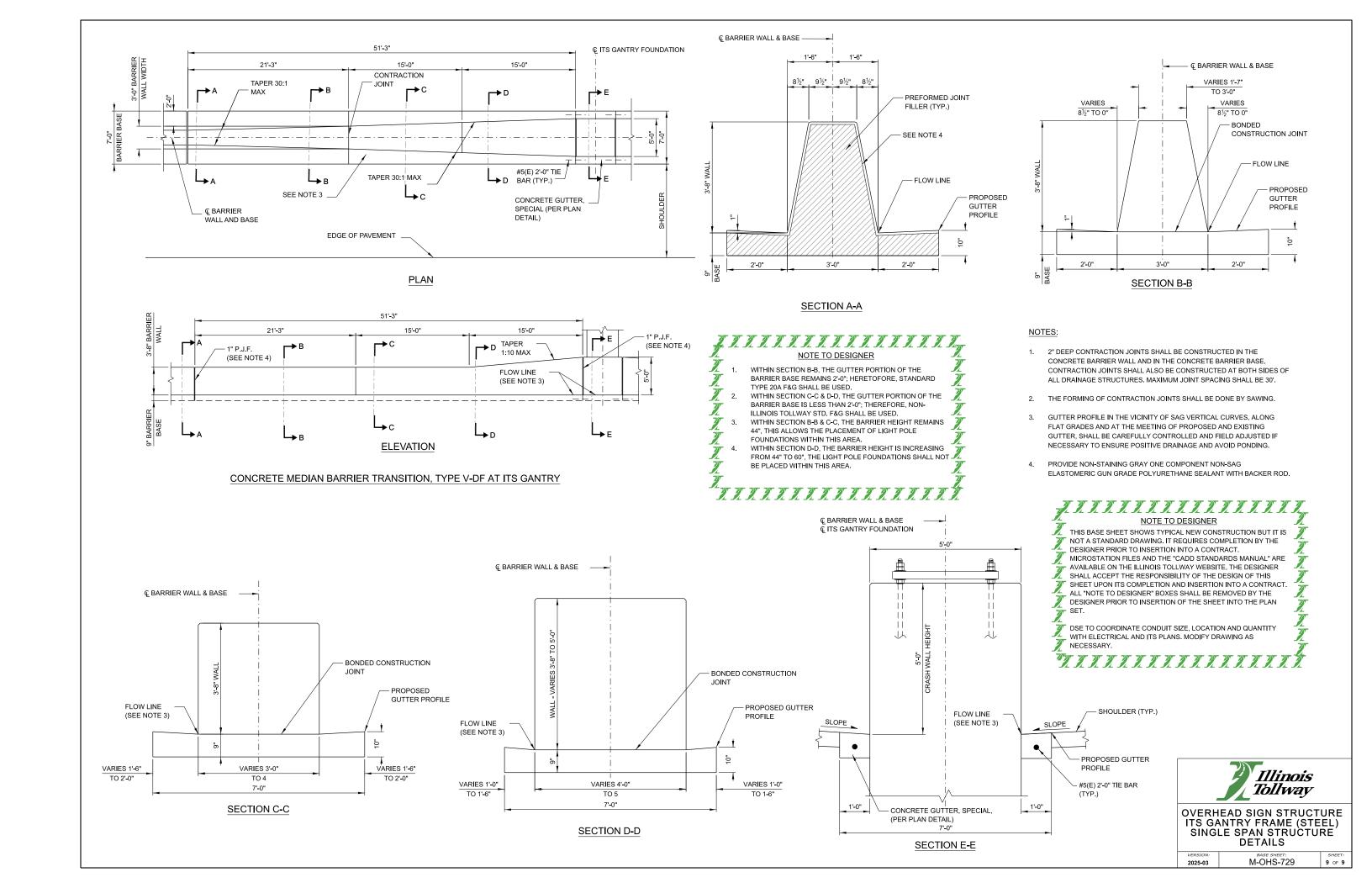


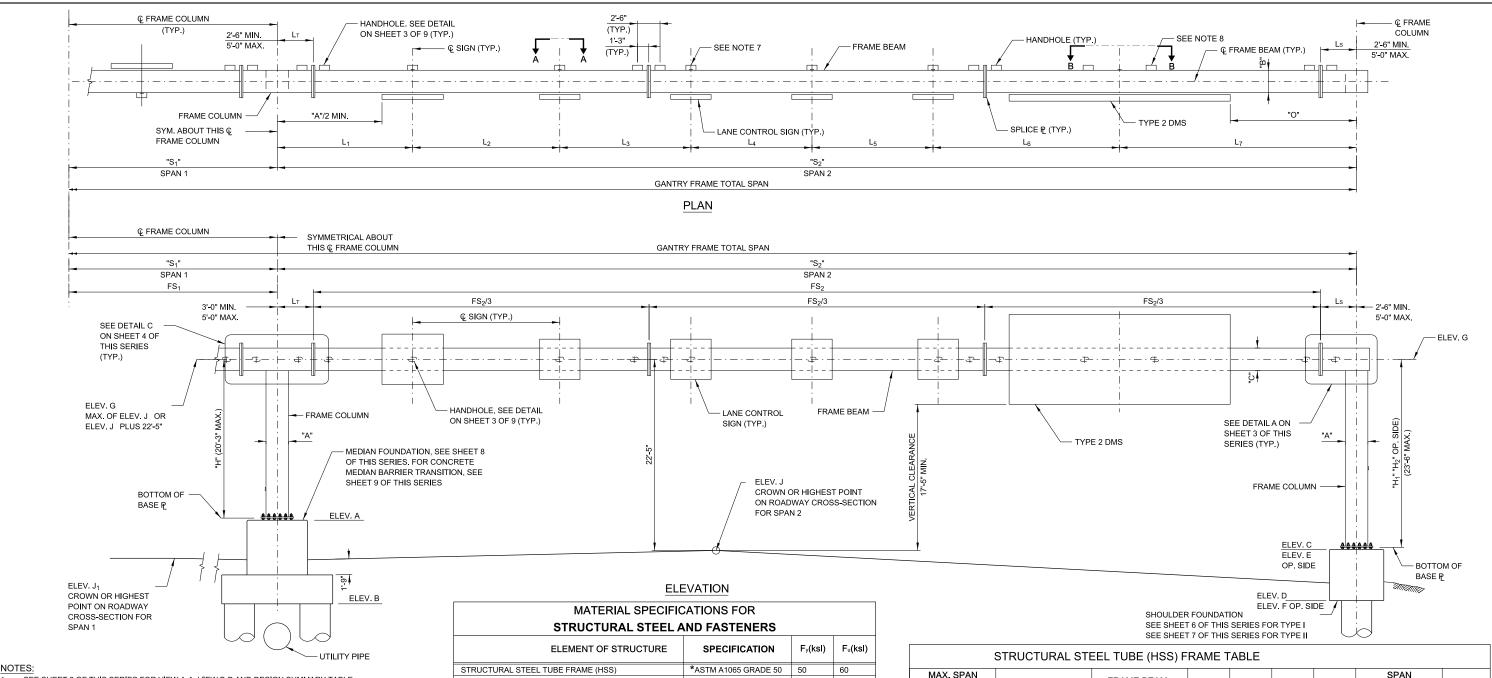
**OVERHEAD SIGN STRUCTURE** ITS GANTRY FRAME (STEEL) SINGLE SPAN STRUCTURE DETAILS

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- SEE SHEET 2 OF THIS SERIES FOR VIEW A-A, VIEW B-B AND DESIGN SUMMARY TABLE.
- 2. CAMBER IS PROVIDED AT MIDSPAN OF STRUCTURE.
- PRIOR TO FABRICATING GANTRY FRAME, THE CONTRACTOR SHALL VERIFY LOCATIONS OF LANE CONTROL SIGNS AND TYPE 2 DMS WITH ENGINEER. (DIMENSIONS L THROUGH L )
- FRAME SPAN SHALL BE IN THE CONFIGURATION SHOWN WITH 3 COLUMNS AND 6 FIELD SECTIONS.
- PRIOR TO FABRICATING GANTRY FRAME. THE CONTRACTOR SHALL FIELD VERIEY LOCATION OF FACH FOUNDATION ANCHOR BOLTS AND DETAILS AFFECTING GANTRY FRAME FABRICATION AND CONSTRUCTION, NOTIFY THE ENGINEER OF ANY VARIATIONS FROM CONTRACT PLANS AND MAKE NECESSARY APPROVED ADJUSTMENTS. SUCH VARIATIONS DO NOT CONSTITUTE ADDITIONAL COMPENSATION FOR CHANGE IN SCOPE OF WORK. CONTRACTOR WILL BE PAID FOR THE ACTUAL QUANTITY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.
- WHEN REQUIRED FOR ADJUSTMENT, A MAX. OF TWO 1/4" SHIM PLATES SHALL BE PROVIDED AT EACH FIELD
- IF THE DISTANCE BETWEEN AN LCS TYPE 1 OR LCS TYPE 2 CENTERLINE HANDHOLE AND THE HANDHOLD ADJACENT TO A SPLICE IS LESS THAN 6'-0". THE SPLICE HANDHOLE SHALL BE ELIMINATED.
- IF THE DISTANCE BETWEEN A TYPE 2 DMS SIGN HANDHOLE AND THE HANDHOLE ADJACENT TO A SPLICE IS LESS THAN 6'-0", THE SIGN HANDHOLD SHALL BE ELIMINATED, AND THE HANDHOLE ADJACENT TO THE SPLICE SHALL BE USED INSTEAD. THE CONDUIT COUPLERS SHALL BE INCLUDED AT THE HANDHOLE ADJACENT TO THE SPLICE IF THE TYPE 2 DMS SIGN HANDHOLE IS ELIMINATED.
- LIMIT DMS TO THE FACE OF COLUMN WITH 1'-0" MAXIMUM OVERHANG FROM THE SUPPORT BRACKET. MAINTAIN 9" MINIMUM DISTANCE BETWEEN SPLICE AND SUPPORT BRACKET.

NI) FASTENERS		
SPECIFICATION	F <sub>y</sub> (ksl)	F <sub>u</sub> (ksl)
*ASTM A1065 GRADE 50	50	60
ASTM A500, GRADE B	46	58
ASTM A709, GRADE 50	50	65
ASTM A572 GR. 50 OR	50	65
ASTM A709 GR. 50		
ASTM 325 TYPE 1	_	105
ASTM A307	_	60
ASTM A194 GR. 8F OR	_	_
ASTM A194 GR. 2H		
ASTM A563 GRADE DH	_	_
ASTM F436	_	_
ASTM A240, TYPE 302	_	_
AASHTO M 314	55	75
OR ASTM F1554		
	*ASTM A1065 GRADE 50 ASTM A500, GRADE B ASTM A709, GRADE 50 ASTM A572 GR. 50 OR ASTM A709 GR. 50 ASTM 325 TYPE 1 ASTM A307 ASTM A194 GR. 8F OR ASTM A194 GR. 2H ASTM A563 GRADE DH ASTM A563 GRADE DH ASTM A240, TYPE 302 AASHTO M 314	*ASTM A1065 GRADE 50 50 ASTM A500, GRADE B 46 ASTM A709, GRADE 50 50 ASTM A572 GR. 50 OR ASTM A709 GR. 50 ASTM A709 GR. 50 ASTM A325 TYPE 1 - ASTM A307 - ASTM A194 GR. 8F OR - ASTM A194 GR. 2H ASTM A563 GRADE DH - ASTM F436 - ASTM A240, TYPE 302 - AASHTO M 314 55

<sup>\*</sup> SHALL CONFORM TO THE CHARPY-V-NOTCH IMPACT ENERGY REQUIREMENT, ZONE 2

PROVIDE APPROPRIATE PROTECTION FOR SHOULDER FOUNDATION. USE SHOULDER FOUNDATION TYPE I WHEN FOUNDATION IS PLACED IN LINE WITH SINGLE FACE CONCRETE BARRIER. THIS FOUNDATION REQUIRES MINIMUM 35 FT OF BARRIER ON EACH SIDE OF THE FOUNDATION TO RESIST LONGITUDINAL FORCE FROM THE GANTRY COLUMN USE SHOULDER FOUNDATION TYPE I WHEN FOUNDATION IS PLACED OUTSIDE CLEAR ZONE OR BEHIND GUARDRAIL PROVIDE SITE GROUNDING ELECTRODE SYSTEM DETAIL ACCORDING TO THE ILLINOIS TOLLWAY

SUPPLEMENTAL SPECIFICATIONS SECTION 734. REFERENCE BASE SHEET M-ITS-1101.

DIFFERENCE BETWEEN ELEV. A AND ELEV. C (OR ELEV. E) SHOULD NOT EXCEED 5'-0"

#### HSS 30x30x0.625 2'-6" 2'-6" TOTAL BILL OF MATERIAL

FRAME COLUMN

HSS 28x24x0 625

HSS 28x28x0.625

"S<sub>1</sub>" OR "S<sub>2</sub>"

110'<"S"<=130'

<=110'

FRAME BEAM

HSS 28x24x0 500

HSS 28x24x0.625

PAY ITEM	ITEM	UNIT	TOTAL
JS734G10	FOUNDATION FOR ITS GANTRY FRAME	CU YD	XXX.X
JS740110	ITS GANTRY FRAME (STEEL), SPANS LESS THAN OR EQUAL TO 110'	FOOT	XXX'-XX"
JS740130	ITS GANTRY FRAME (STEEL), SPANS GREATER THAN 110' AND LESS THAN OR EQUAL TO 130'	FOOT	XXX'-XX"
JS740150	ITS GANTRY FRAME (STEEL), SPANS GREATER THAN 130' AND LESS THAN OR EQUAL TO 150'	FOOT	XXX'-XX"
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	XXXX
50300300	PROTECTIVE COAT	SQ YD	XXX.X
* 51604000	DRILLED SHAFT IN ROCK	CU YD	XXX.X

"A"

2'-0"

2'-4"

"B"

2'-4"

2'-4"

"C"

2'-0"

2'-0"

1'-0"

1'-2"

## NOTE TO DESIGNER

\* INCLUDE THIS PAY ITEM IF ROCK IS ENCOUNTERED. QUANTITY OF DRILLED SHAFT IN ROCK IS NOT INCLUDED IN THE PAY ITEM JS734G10. THIS BASE SHEET SHOWS TYPICAL NEW CONSTRUCTION BUT IT IS NOT STANDARD DRAWING. IT REQUIRES COMPLETION BY THE DESIGNER PRIOR TO INSERTION INTO A CONTRACT. MICROSTATION FILES AND THE "CADD STANDARDS MANUAL" ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE DESIGN OF THIS SHEET UPON ITS COMPLETION AND INSERTION INTO A CONTRACT. ALL "NOTE TO DESIGNER" BOXES SHALL BE REMOVED PRIOR TO INSERTION OF THE SHEET INTO THE PLAN SET



"S<sub>1</sub>" OR "S<sub>2</sub>"

110'<"S"<=130'

<=110'

**OVERHEAD SIGN STRUCTURE** ITS GANTRY FRAME (STEEL) TWO-SPAN STRUCTURE DETAILS

M-OHS-730

1 OF 10

CAMBER

31/4"

4½"

#### **GENERAL NOTES:**

ALL EXPOSED CONCRETE EDGES SHALL HAVE A  $^{3}\!4\text{"}$  x 45° CHAMFER, EXCEPT WHERE SHOWN OTHERWISE CHAMEER ON VERTICAL EDGES SHALL BE CONTINUED A MINIMUM OF ONE FOOT BELOW FINISHED GROUND LEVEL

#### REINFORCEMENT BARS:

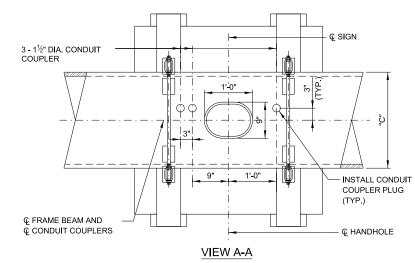
REINFORCEMENT BARS, INCLUDING REINFORCEMENT BARS, EPOXY-COATED SHALL CONFORM TO THE REQUIREMENTS OF IDOT STANDARD SPECIFICATIONS SECTION 508 AND ARTICLE 1006.10

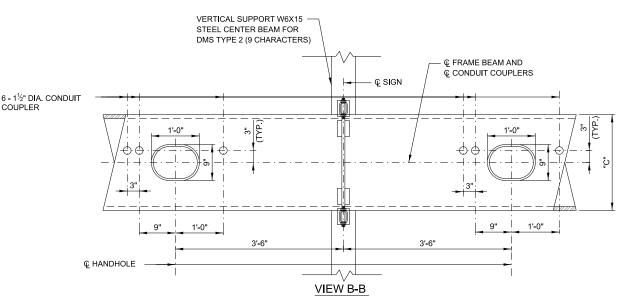
COUPLER

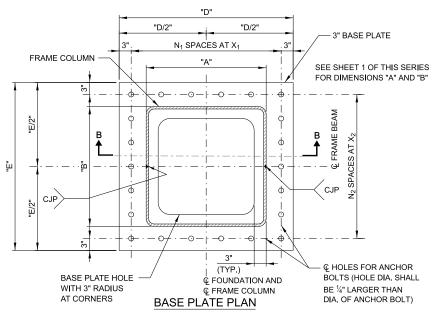
- REINFORCEMENT BARS DESIGNATED "(E)" SHALL BE EPOXY-COATED.
- REINFORCEMENT BENDING DETAILS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 315, "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES"
- REINFORCEMENT BAR BENDING DIMENSIONS ARE OUT-TO-OUT
- COVER FROM THE FACE OF CONCRETE TO FACE OF REINFORCEMENT BARS SHALL BE 3" FOR SURFACES FORMED AGAINST EARTH AND 2" FOR ALL OTHER SURFACES UNLESS OTHERWISE SHOWN

#### CONSTRUCTION SPECIFICATIONS:

- ILLINOIS TO LWAY SUPPLEMENTAL SPECIFICATIONS ISSUED XXXXXXXX TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- ILLINOIS DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS ADOPTED XXXXXXXXX
- II LINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED XXXXXXXX.







#### **DESIGN LOADING:**

WIND LOAD CRITERIA

SIGN PANEL 60 7 P S F BASIC WIND SPEED 120 M P H COLUMN/BEAM 60.7 P.S.F 1.14 IF (FATIGUE IMPORTANCE FACTOR) TYPE 2 DMS 62 P.S.F 1.0

TL-5 DESIGN REQUIREMENTS, WHERE APPLICABLE FOR FOUNDATION ONLY, PER AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS. NINTH EDITION WITH CURRENT INTERIMS

ICE = 3 P.S.F. (APPLIED WITH A FACTOR OF 1.0 FOR STRENGTH I ONLY)

#### **EQUIPMENT LOADS:**

LANE CONTROL SIGNS

220 LB, MAX. (4'-0" H, X 4'-0" W, X 1'-2" D, MAX.) TYPE 2 DMS 2,700 LB, MAX, (7'-9" H, X 25'-10" W, X 1'-2" D, MAX,)

ITS GANTRY FRAMES AND FOUNDATIONS ARE DESIGNED FOR MAX. LOADING OF 2-TYPE 2 DMS PER SPAN (ONE OVER EACH SHOULDER) AND 1-LANE CONTROL SIGN IN EACH ADDITIONAL 12' LANE.

#### DESIGN STRESSES FOR REINFORCED CONCRETE:

- fc = COMPRESSIVE STRENGTH OF CONCRETE (CLASS BS) fc = COMPRESSIVE STRENGTH OF CONCRETE (CLASS DS)
- = 4,000 P.S.I. = 4,000 P.S.J.
- fy = YIELD STRENGTH OF REINFORCEMENT BARS (GRADE 60) = 60,000 P.S.I.

#### **DESIGN SPECIFICATIONS:**

ILLINOIS TOLLWAY STRUCTURE DESIGN MANUAL, LATEST EDITION.

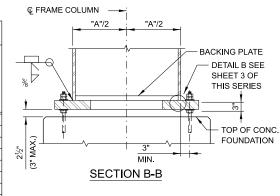
- AASHTO LRFD SPECIFICATION FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS LUMINAIRES AND TRAFFIC SIGNALS, FIRST EDITION WITH CURRENT INTERIMS
- AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, NINTH EDITION, XXXXXXXX.
- ILLINOIS DEPARTMENT OF TRANSPORTATION BRIDGE MANUAL, XXXXXXXX.
- ILLINOIS TOLLWAY GEOTECHNICAL ENGINEER MANUAL, LATEST EDITION

		В	ASE PL	ATE TAE	BLE - TY	PE N		
MAX. SPAN "S " OR "S "	"S " OR "S " "D" "E"				N	x	ANCHOR BOLT DIAMETER	NO. ANCHOR BOLT
<=110'	3'-2"	3'-5"	4	8"	5	7"	1¾"	18
110'<"S"<=130'	3'-5"	3'-6"	5	7"	6	6"	1¾"	22
130'<"S"<=150'	3'-7½"	3'-6"	5	7½"	6	6"	1¾"	22

#### NOTE:

WHERE THE DISTANCE BETWEEN SIGN ACCESS HOLE(S) AND THE ACCESS HOLES ADJACENT TO THE SPLICE ARE LESS THAN 6'-0" THE SIGN ACCESS HOLE SHALL BE FLIMINATED AND THE HOLE ADJACENT TO THE SPLICE IS USED INSTEAD. CONDUIT COUPLERS SHALL BE INCLUDED AT THE ACCESS HOLE ADJACENT TO THE SPLICE IF SIGN ACCESS HOLE IS ELIMINATED.

#### **DESIGN SUMMARY** SPANS **ELEVATIONS** FOUNDATION **PROPOSED** REINF. PROTECTIVE TOTAL STRUCTURE FOUNDATION MINIMUM BARS, EPOXY CLASS BS | CLASS DS STATION SPAN $FS_1$ $FS_2$ COAT $L_S$ $\mathsf{L}_\mathsf{T}$ $H_2$ "S<sub>2</sub>" NUMBER TYPE VERTICAL COATED В С D Ε F G CONCRETE | CONCRETE (FT) (SQ YD) (FT) (FT) **CLEARANCE** (POUND) (CU YD) (CU YD) XXX-XXXX XXXX-XX | xx'-xx" | XXX.XX XXX.XX X.XXX XXX.XX TOTAL



#### NOTE TO DESIGNER

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- A BORING IS REQUIRED AT EACH FOUNDATION LOCATION.
- NO STANDARD DRILLED SHAFT FOUNDATIONS WERE DESIGNED OR DETAILED FOR COHESION LESS SOIL CONDITIONS. REGARDLESS, THE DESIGNER MUST CONDUCT A SUBSURFACE INVESTIGATION AT EACH OVERHEAD SIGN STRUCTURE FOUNDATION TO DETERMINE THE ACTUAL SOIL PROPERTIES. SHOULD THE INVESTIGATION REVEAL THE PRESENCE OF COHESION LESS SOIL OR COHESIVE SOILS WITH PROPERTIES LESS THAN THE AVERAGES INDICATED IN THIS STANDARD,
- THE DESIGNER SHALL DESIGN AND DETAIL THE DRILLED SHAFT FOUNDATIONS TO MEET THE ACTUAL SOIL CONDITIONS DESIGN AND CONSTRUCTION SPECIFICATIONS: THE DESIGNER IS RESPONSIBLE FOR UPDATING THE EDITION OF SPECIFICATIONS AND THE DATE OF PUBLICATION TO THE EDITION OF SPECIFICATIONS AND THE DATE OF PUBLICATION

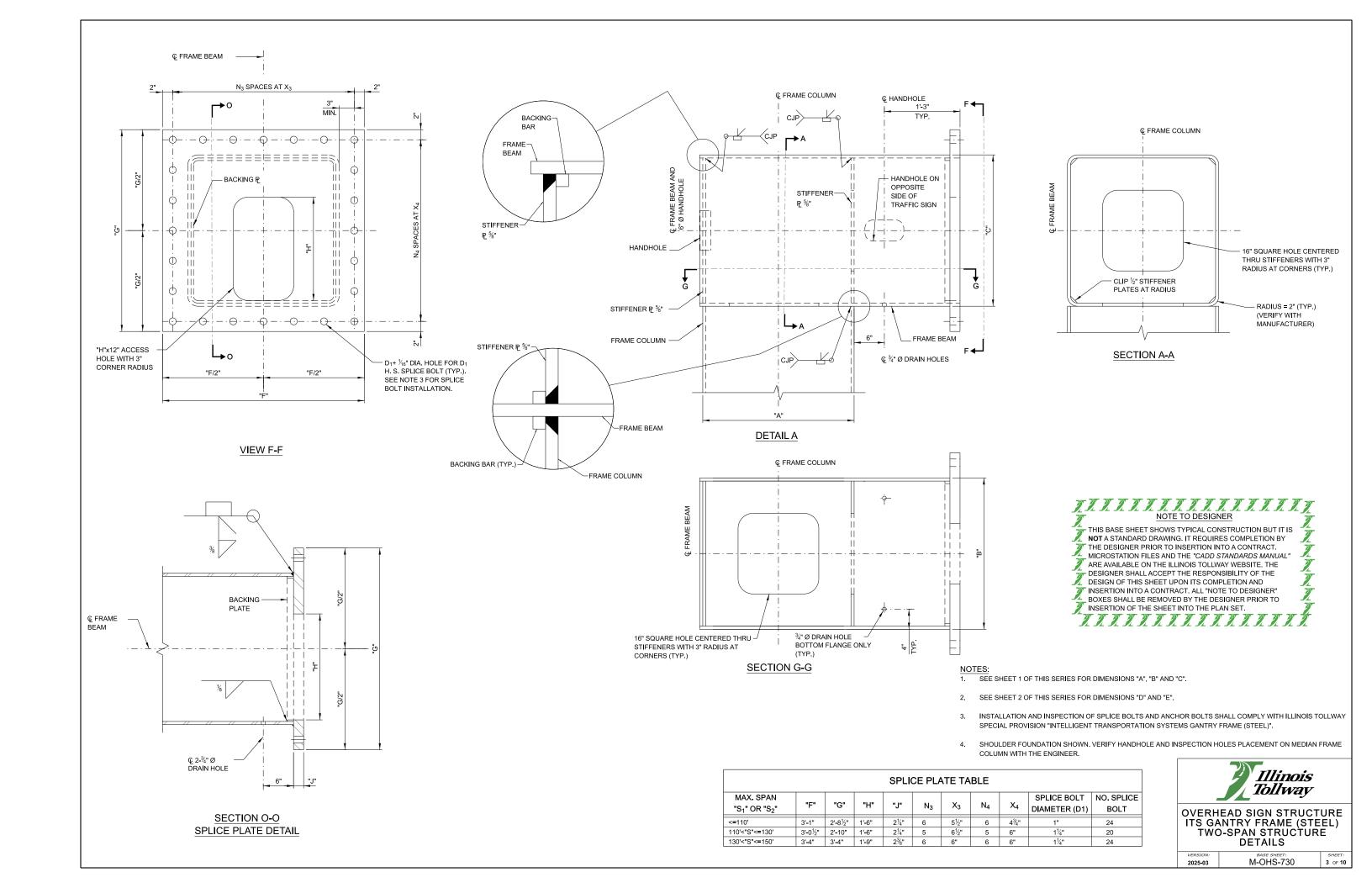
- DESIGNER TO ENSURE ALL LATEST CODE REQUIREMENTS ARE MET.
- DESIGNER TO DETERMINE THAT APPLIED LOADS DO NOT EXCEED DESIGN VALUES.

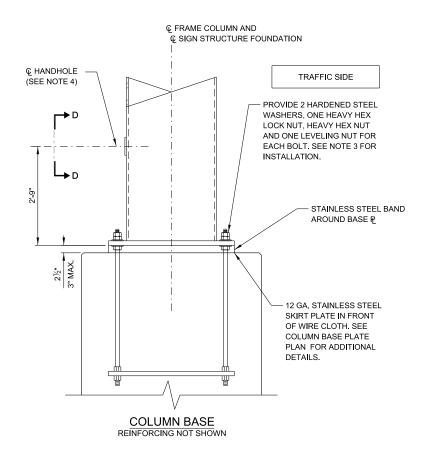
STRUCTURE	STATION				SPAN 1			SPAN 2							
NUMBER	STATION	L <sub>7</sub>	L <sub>6</sub>	L <sub>5</sub>	L <sub>4</sub>	L <sub>3</sub>	L <sub>2</sub>	L <sub>1</sub>	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	L <sub>4</sub>	L <sub>5</sub>	L <sub>6</sub>	L <sub>7</sub>
XXX-XXXX	XXXXX+XX.XX	XX'-XX"													
															<u> </u>
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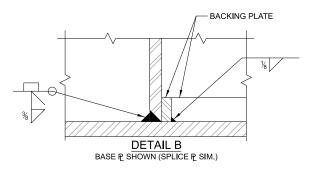


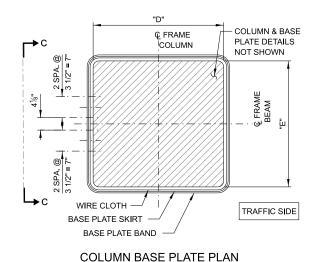
**OVERHEAD SIGN STRUCTURE** ITS GANTRY FRAME (STEEL) TWO-SPAN STRUCTURE **DETAILS** 

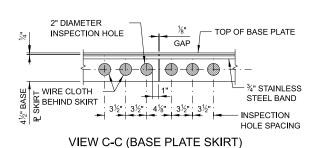
M-OHS-730 2025-03

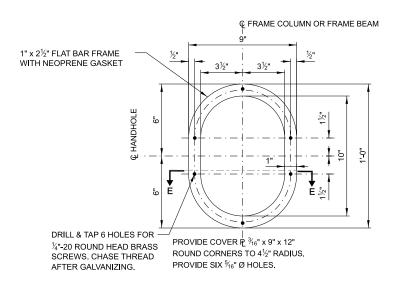




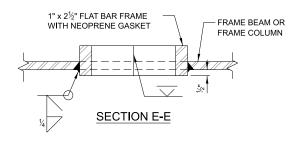








### <u>VIEW D-D</u> HANDHOLE DETAIL



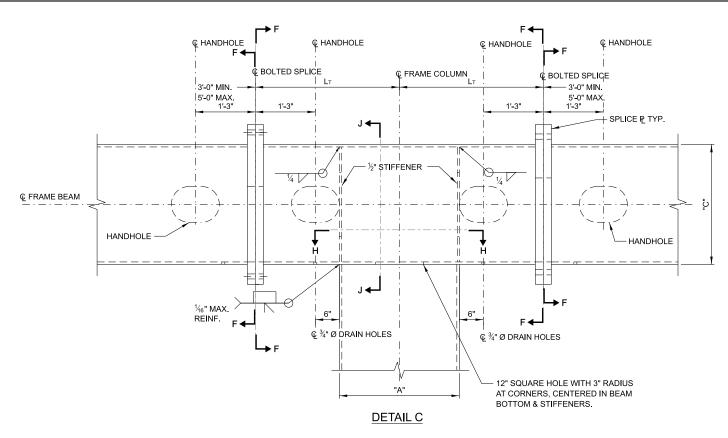




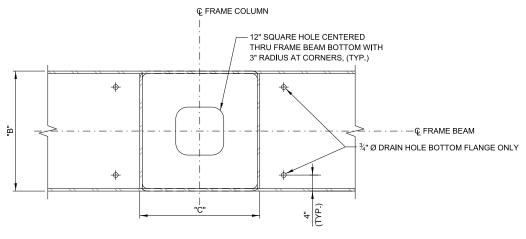
OVERHEAD SIGN STRUCTURE ITS GANTRY FRAME (STEEL) TWO-SPAN STRUCTURE DETAILS

> 5-03 BASE SHEET: M-OHS-730

SHEET: SHEET: 4 OF 10



- HANDHOLE FOR INSPECTION ACCESS ALLOWED ON ONE SIDE OF WEB ONLY. PLACE HANDHOLE ON SAME SIDE AS OTHER HANDHOLES.
- SEE SHEET 1 OF THIS SERIES FOR DIMENSIONS "A", "B"
- 3. SEE SHEET 3 OF THIS SERIES FOR SECTION F-F.



SECTION H-H

# NOTE TO DESIGNER TO THE TOTAL TOTAL

THIS BASE SHEET SHOWS TYPICAL CONSTRUCTION BUT IT IS

NOT A STANDARD DRAWING. IT REQUIRES COMPLETION BY

THE DESIGNER PRIOR TO INSERTION INTO A CONTRACT.

MICROSTATION FILES AND THE "CADD STANDARDS MANUAL"

ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE

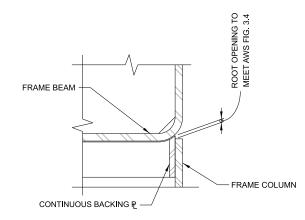
DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE

DESIGN OF THIS SHEET UPON ITS COMPLETION AND

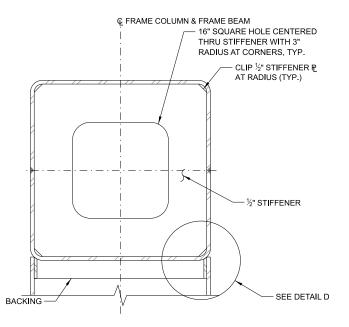
INSERTION INTO A CONTRACT. ALL "NOTE TO DESIGNER"

BOXES SHALL BE REMOVED BY THE DESIGNER PRIOR TO

INSERTION OF THE SHEET INTO THE PLAN SET. THIS BASE SHEET SHOWS TYPICAL CONSTRUCTION BUT IT IS



#### DETAIL D



### SECTION J-J

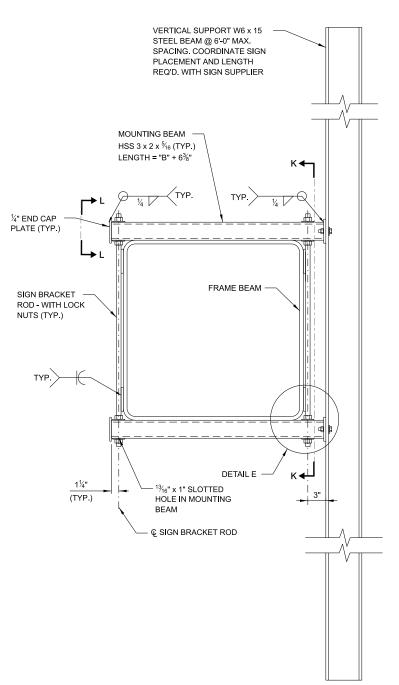
AWS FIG. 3.6 MAY BE USED AT THE FABRICATOR'S OPTION.

WELDING SHALL NOT BEGIN UNTIL THE ENGINEER HAS INSPECTED AND APPROVED FIT-UP OF THE JOINT.



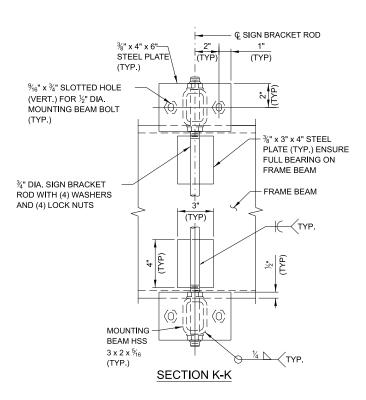
OVERHEAD SIGN STRUCTURE ITS GANTRY FRAME (STEEL) TWO-SPAN STRUCTURE **DETAILS** 

2025-03 M-OHS-730



CONNECTION SIDE VIEW

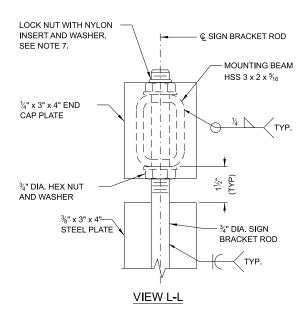


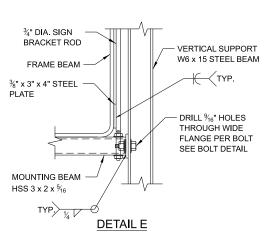


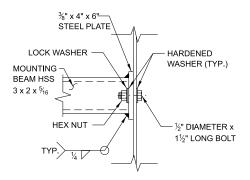
VERTIC	CAL SUPPORT T	ABLE								
W6x15										
SIGN V	SIGN WIDTH									
GREATER THAN	LESS THAN OR EQUAL TO	VERTICAL SUPPORTS REQUIRED								
	8'-0"	2								
8'-0"	14'-0"	3								
14'-0"	20'-0"	4								
20'-0"	26'-0"	5								

## NOTES:

- 1. CONNECTION DETAIL IS APPLICABLE TO DMS AND LANE CONTROL SIGN.
- 2. VERIFY VERTICAL SUPPORT MEMBER LENGTH PRIOR TO FABRICATION.
- DMS MANUFACTURER AND LANE CONTROL SIGN MANUFACTURER SHALL DESIGN, PROVIDE AND INSTALL HORIZONTAL MOUNTING MEMBERS. VERTICAL SPACING OF HORIZONTAL MEMBERS SHALL BE DESIGNED BY MANUFACTURER. VERIFY VERTICAL SPACING WITH HOLES ON W6x15 VERTICAL SUPPORT.
- 4. PROVIDE HIGH STRENGTH BOLTS WITH WASHERS AND LOCK NUTS TO FASTEN DMS AND LANE CONTROL SIGN TO VERTICAL SUPPORT MEMBERS
- 5. GALVANIZE ALL NON-STAINLESS STEEL PARTS.
- 6. SIGN BRACKET RODS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A307.
- 7. LOCK NUTS SHALL BE EITHER STAINLESS STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A194 GRADE 8F OR ASTM A194 GRADE 2H OR CARBON STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A307 AND HOT DIP GALVANIZED AS PER AASHTO M232.
- 8. STAINLESS STEEL NUTS/LOCKNUTS SHALL BE USED WITH STAINLESS BOLTS AND RODS AND GALVANIZED NUTS/LOCKNUTS SHALL BE USED WITH GALVANIZED THREADED BOLTS AND RODS.







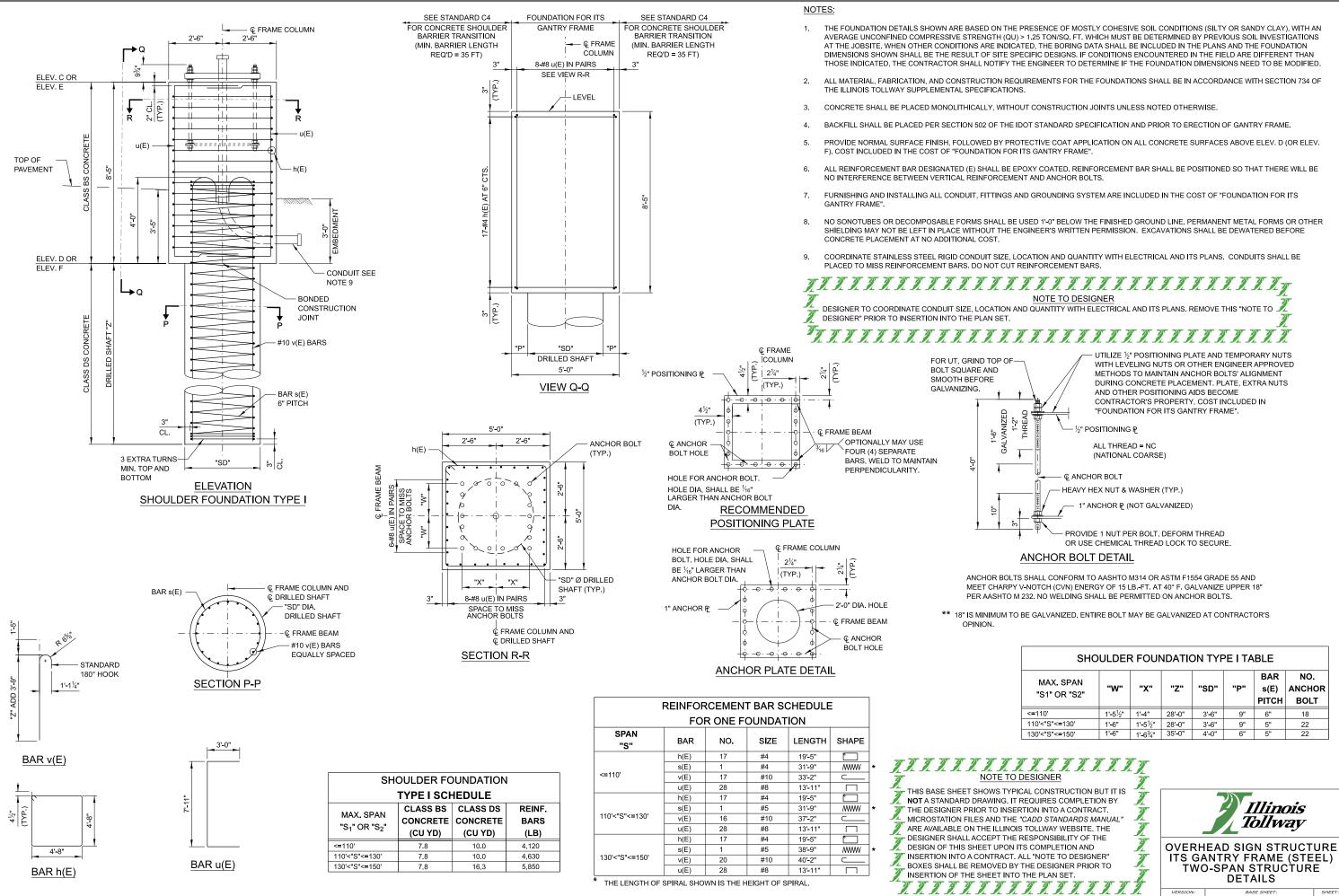
BOLT DETAIL
SIGN BRACKET ROD NOT SHOWN FOR CLARITY



OVERHEAD SIGN STRUCTURE
ITS GANTRY FRAME (STEEL)
TWO-SPAN STRUCTURE
DETAILS

2025-03 M-OHS-730

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TWO-SPAN STRUCTURE DETAILS

BAR

PITCH

Illinois

*Tollway* 

6"

9"

9"

"SD'

3'-6"

3'-6" 4'-0"

NO.

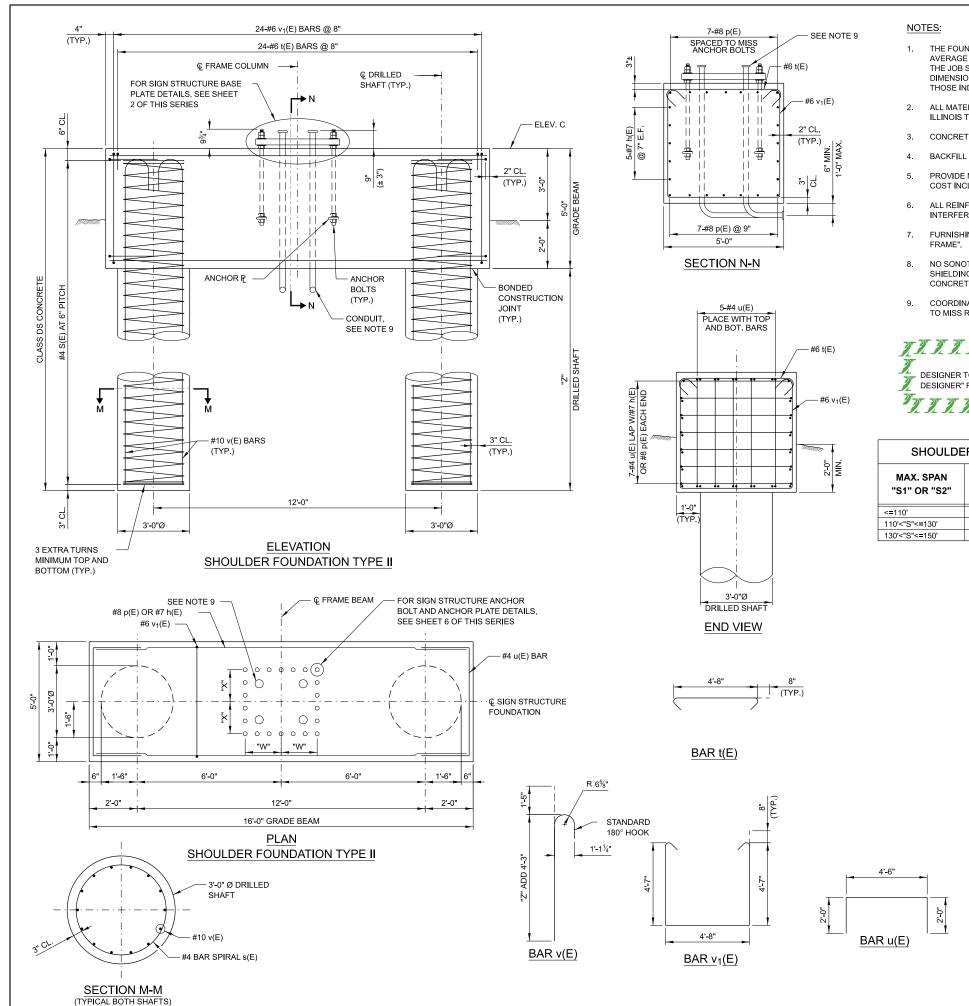
BOLT

18

7 OF 10

s(E) ANCHOR

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- 1. THE FOUNDATION DETAILS SHOWN ARE BASED ON THE PRESENCE OF MOSTLY COHESIVE SOIL CONDITIONS (SILTY OR SANDY CLAY), WITH AN AVERAGE UNCONFINED COMPRESSIVE STRENGTH (QU) > 1.25 TON/SQ. FT. WHICH MUST BE DETERMINED BY PREVIOUS SOIL INVESTIGATIONS AT THE JOB SITE. WHEN OTHER CONDITIONS ARE INDICATED, THE BORING DATA SHALL BE INCLUDED IN THE PLANS AND THE FOUNDATION DIMENSIONS SHOWN SHALL BE THE RESULT OF SITE SPECIFIC DESIGNS. IF CONDITIONS ENCOUNTERED IN THE FIELD ARE DIFFERENT THAN THOSE INDICATED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO DETERMINE IF THE FOUNDATION DIMENSIONS NEED TO BE MODIFIED.
- 2. ALL MATERIAL, FABRICATION, AND CONSTRUCTION REQUIREMENTS FOR THE FOUNDATIONS SHALL BE IN ACCORDANCE WITH SECTION 734 OF THE ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATIONS.
- 3. CONCRETE SHALL BE PLACED MONOLITHICALLY, WITHOUT CONSTRUCTION JOINTS UNLESS NOTED OTHERWISE.
- BACKFILL SHALL BE PLACED PER SECTION 502 OF THE IDOT STANDARD SPECIFICATION AND PRIOR TO ERECTION OF GANTRY FRAME.
- PROVIDE NORMAL SURFACE FINISH, FOLLOWED BY PROTECTIVE COAT APPLICATION ON ALL CONCRETE SURFACES ABOVE ELEV. D (OR ELEV. F). COST INCLUDED IN THE COST OF "FOUNDATION FOR ITS GANTRY FRAME".
- ALL REINFORCEMENT BAR DESIGNATED (E) SHALL BE EPOXY COATED. REINFORCEMENT BAR SHALL BE POSITIONED SO THAT THERE WILL BE NO
  INTERFERENCE BETWEEN VERTICAL REINFORCEMENT AND ANCHOR BOLTS.
- 7. FURNISHING AND INSTALLING ALL CONDUIT, FITTINGS AND GROUNDING SYSTEM ARE INCLUDED IN THE COST OF "FOUNDATION FOR ITS GANTRY FRAMF"
- 8. NO SONOTUBES OR DECOMPOSABLE FORMS SHALL BE USED 1'-0" BELOW THE FINISHED GROUND LINE. PERMANENT METAL FORMS OR OTHER SHIELDING MAY NOT BE LEFT IN PLACE WITHOUT THE ENGINEER'S WRITTEN PERMISSION. EXCAVATIONS SHALL BE DEWATERED BEFORE CONCRETE PLACEMENT AT NO ADDITIONAL COST.
- 9. COORDINATE STAINLESS STEEL RIGID CONDUIT SIZE, LOCATION AND QUANTITY WITH ELECTRICAL AND ITS PLANS. CONDUITS SHALL BE PLACED TO MISS REINFORCEMENT BARS. DO NOT CUT REINFORCEMENT BARS.

NOTE TO DESIGNER

DESIGNER TO COORDINATE CONDUIT SIZE, LOCATION AND QUANTITY WITH ELECTRICAL AND ITS PLANS. REMOVE THIS "NOTE TO DESIGNER" PRIOR TO INSERTION INTO THE PLAN SET.

SHOULDE	R FOUN	OITADI	N TYPE	II SCHEDUL	.E
MAX. SPAN "S1" OR "S2"	"Z"	"W"	"X"	CLASS DS CONCRETE (CU YD)	REINF. BARS (LB)
<=110'	38'-0"	1'-5½"	1'-4"	34.7	7,990
110'<"S"<=130'	42'-0"	1'-6"	1'-5½"	36.8	8,570
130'<"S"<=150'	46'-0"	1'-6"	1'-6¾"	39.0	9,130

NOTE TO DESIGNER

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MICROSTATION FILES AND THE "CADD STANDARDS MANUAL"

ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE

DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE

DESIGN OF THIS SHEET UPON ITS COMPLETION AND

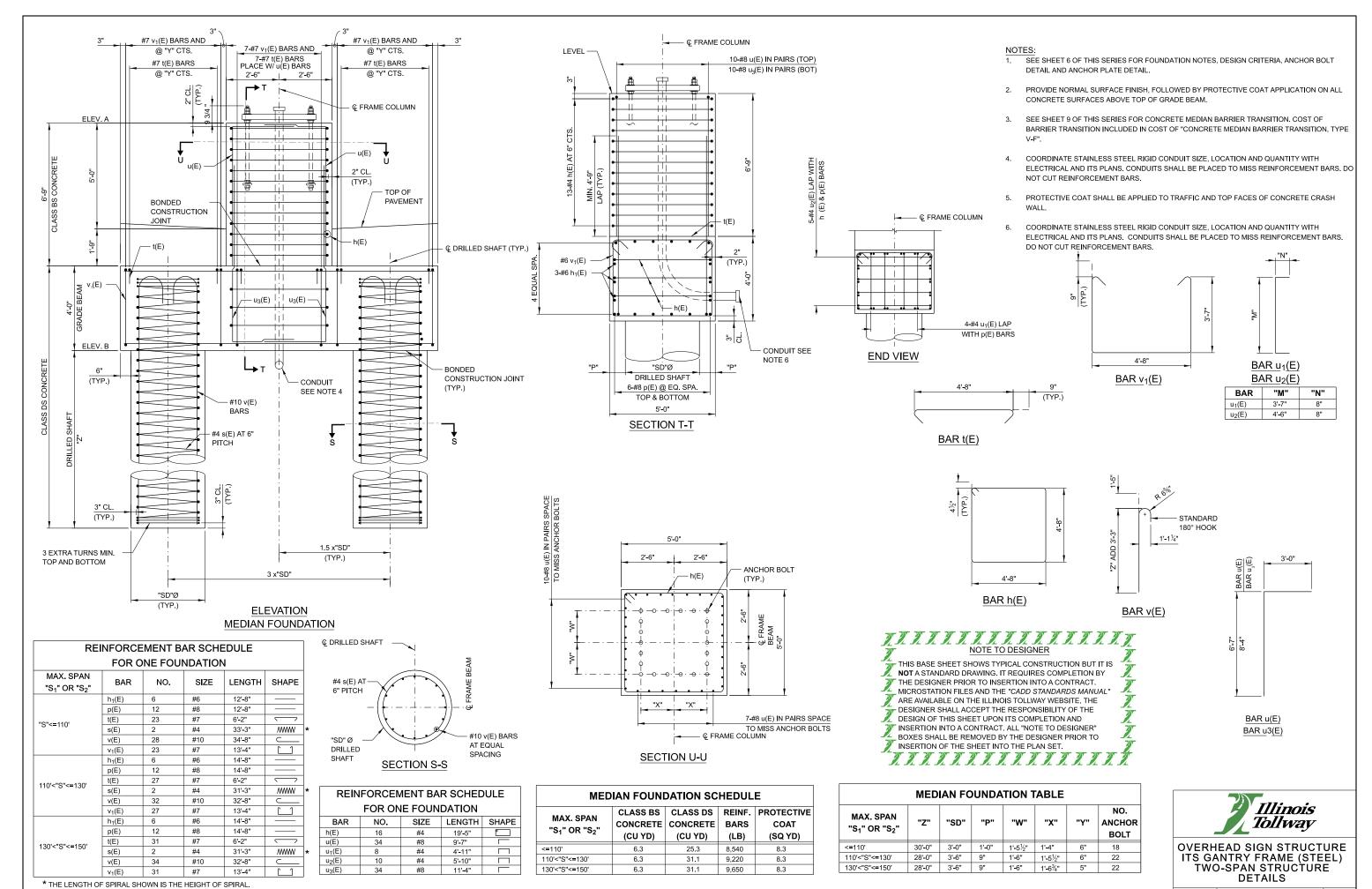
INSERTION INTO A CONTRACT. ALL "NOTE TO DESIGNER"

BOXES SHALL BE REMOVED BY THE DESIGNER PRIOR TO
INSERTION OF THE SHEET INTO THE PLAN SET.

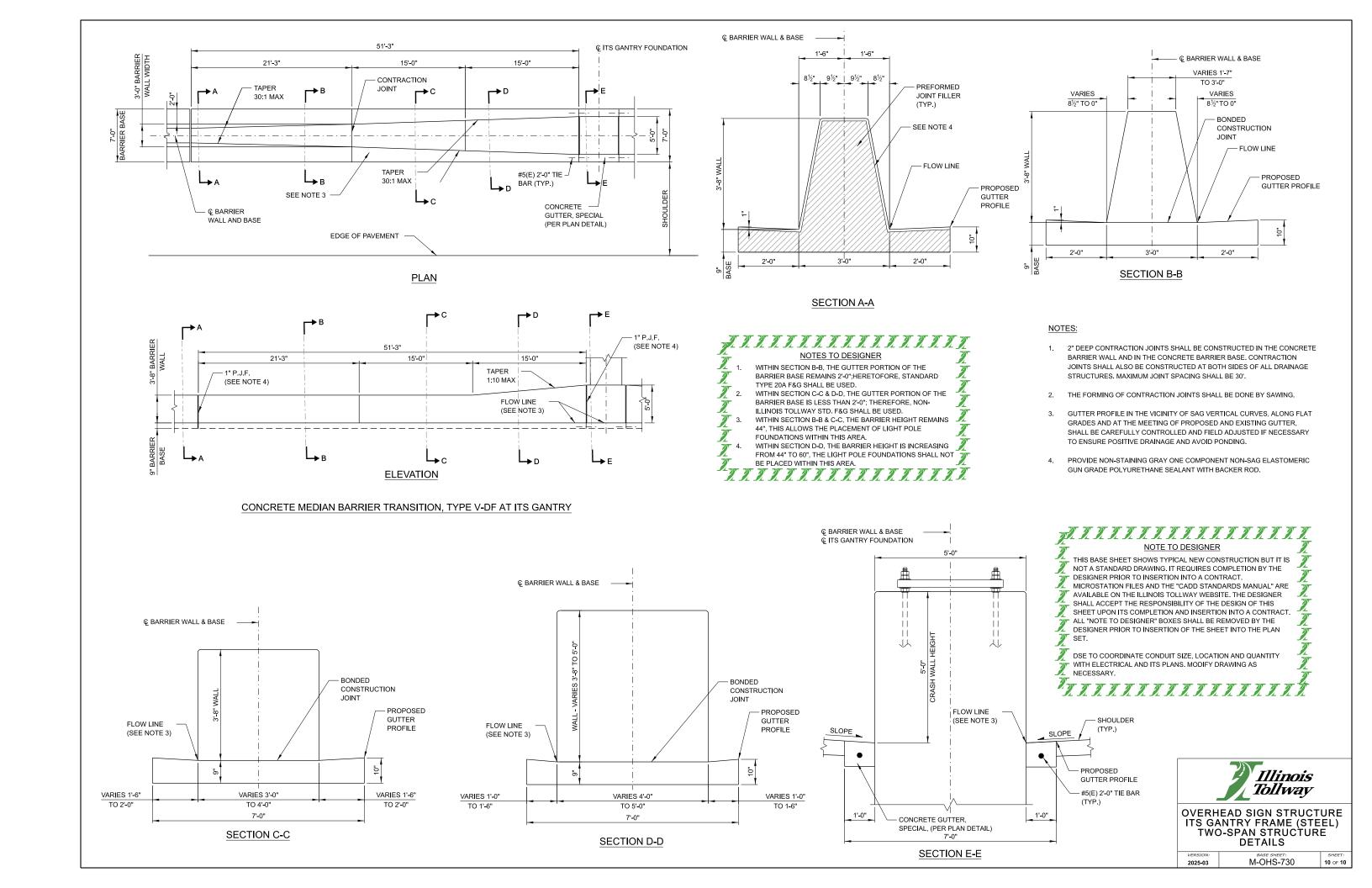
RE	EINFORC	EMENT E	BAR SCH	EDULE	
(2 DR	ILLED SH	IAFTS AN	ID 1 GRA	DE BEAM	)
SPAN "S"	BAR	NO.	SIZE	LENGTH	SHAPE
	h(E)	10	#7	15'-8"	
	p(E)	14	#8	15'-8"	
"S"<=110'	t(E)	24	#6	6'-0"	
5 <=110	s(E)	2	#4	42'-3"	WWW
	v(E)	28	#10	43'-8"	
	v <sub>1</sub> (E)	24	#6	15'-2"	
	u(E)	24	#4	8'-6"	
	h(E)	10	#7	15'-8"	
	p(E)	14	#8	15'-8"	
4401 11011 4001	t(E)	24	#6	6'-0"	
110'<"S"<=130"	s(E)	2	#4	46'-3"	WWW
	v(E)	28	#10	47'-8"	
10'<"S"<=130'	v <sub>1</sub> (E)	24	#6	15'-2"	<u>[ 1</u>
	u(E)	24	#4	8'-6"	
	h(E)	10	#7	15'-8"	
	p(E)	14	#8	15'-8"	
4001 11011 1 4501	t(E)	24	#6	6'-0"	
130'<"S"<=150'	s(E)	2	#4	50'-3"	MWW
	v(E)	28	#10	51'-8"	$\subset$
	v <sub>1</sub> (E)	24	#6	15'-2"	<u> [ ]</u>
	u(E)	24	#4	8'-6"	一一
	_ , ,				

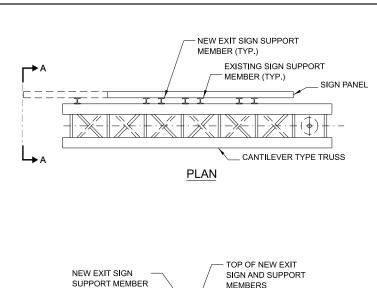
\* THE LENGTH OF SPIRAL SHOWN IS THE HEIGHT OF SPIRAL.

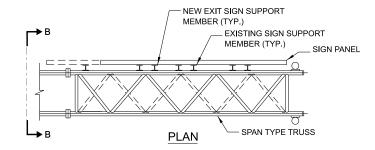


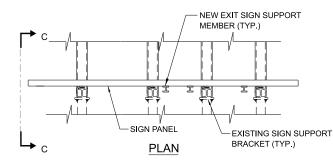


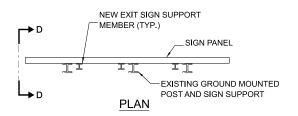
BASE SHEET: SHEET: 5-03 M-OHS-730 9 OF 10

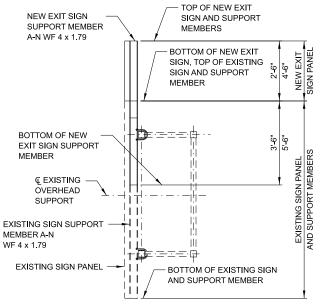


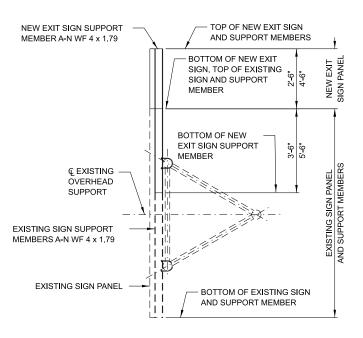












TOP OF NEW EXIT SIGN AND SUPPORT NEW EXIT SIGN SUPPORT MEMBERS MEMBER A-N WF 4 x 1.79 BOTTOM OF NEW EXIT SIGN, TOP OF EXISTING SIGN AND SUPPORT BRACKET BOTTOM OF NEW EXIT SIGN SUPPORT MEMBER **BOTTOM OF** EXISTING SIGN - EXISTING SIGN SUPPORT BRACKET LUMINAIRE SUPPORT - GUSSET PLATE (TYP.)

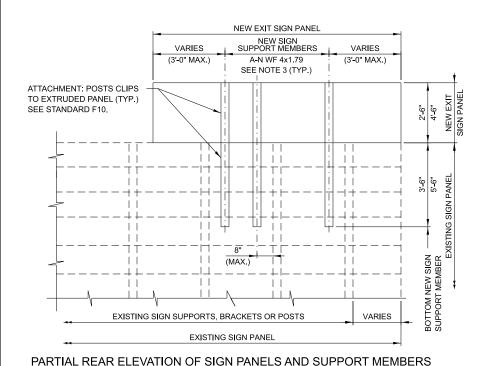
NEW EXIT SIGN TOP OF NEW EXIT SIGN AND SUPPORT MEMBERS SUPPORT MEMBER A-N WF 4 x 1.79 BOTTOM OF NEW EXIT SIGN, TOP OF EXISTING SIGN AND SUPPORT POST BOTTOM OF NEW EXIT SIGN SUPPORT MEMBER HINGE JOINT - EXISTING WF POST

SECTION A-A OVERHEAD CANTILEVER TYPE SIGN SUPPORT

SECTION B-B **OVERHEAD SPAN TYPE SIGN SUPPORT** 

SECTION C-C **BRIDGE MOUNTED SIGN SUPPORT** 

SECTION D-D **GROUND MOUNTED SIGN SUPPORT** 



#### NOTES:

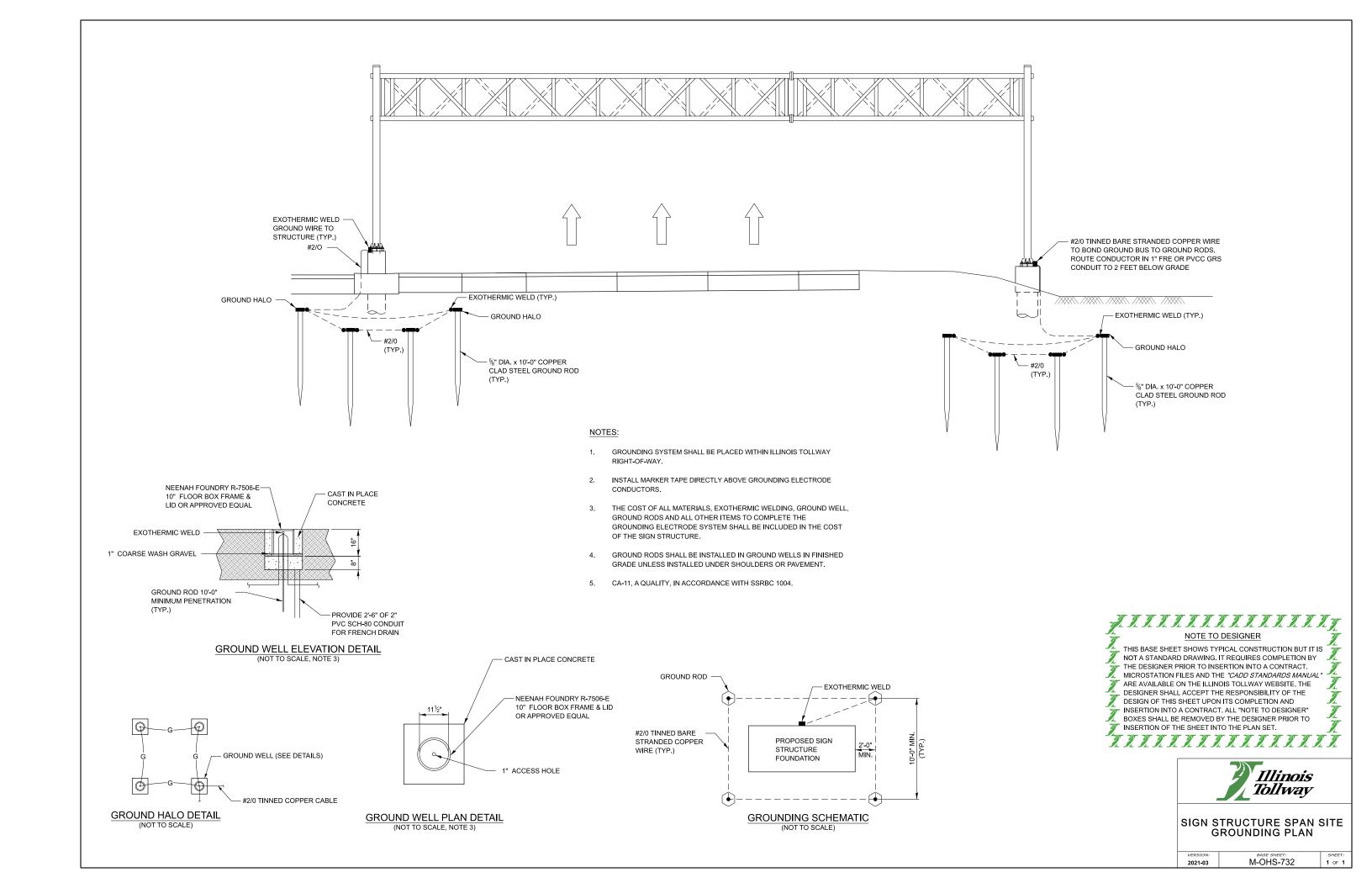
- ALL MATERIAL IS ALUMINUM IN ACCORDANCE WITH SECTION 733 OF THE LATEST IDOT STANDARD SPECIFICATIONS. (UNLESS OTHERWISE NOTED).
- NEW SIGN SUPPORT MEMBERS SHALL BE SPACED WITH EXISTING SIGN SUPPORTS. SPACING SHALL NOT EXCEED 6'-0".
- 3. STANDARD SHALL ALSO BE UTILIZED FOR RETROFITTING OTHER SIGN PANELS WITH EXISTING SIGN SUPPORTS THAT DO NOT CONFORM TO STANDARD F8. NEW SIGN SUPPORT MEMBERS SHALL BE TWICE THE UNSUPPORTED HEIGHT PLUS ONE FOOT.

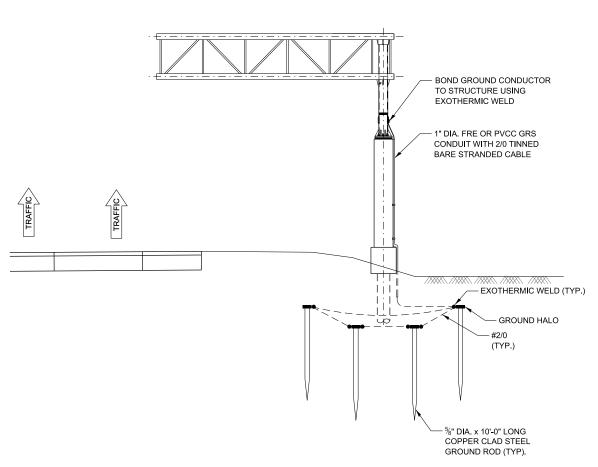
NOTE TO DESIGNER EXISTING TRUSS AND SUPPORT MEMBERS SHALL BE CHECKED FOR STRUCTURAL ADEQUACY TO SUPPORT THE ADDITIONAL SIGN PANEL AREA



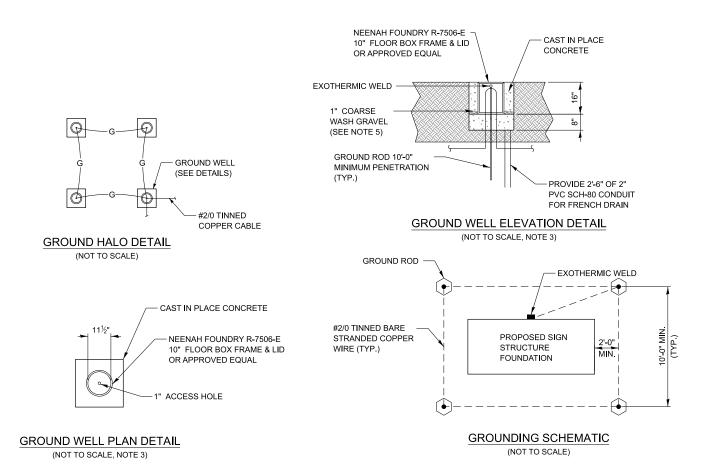
MOUNTING DETAILS FOR RETROFITTING NEW EXIT SIGN PANELS

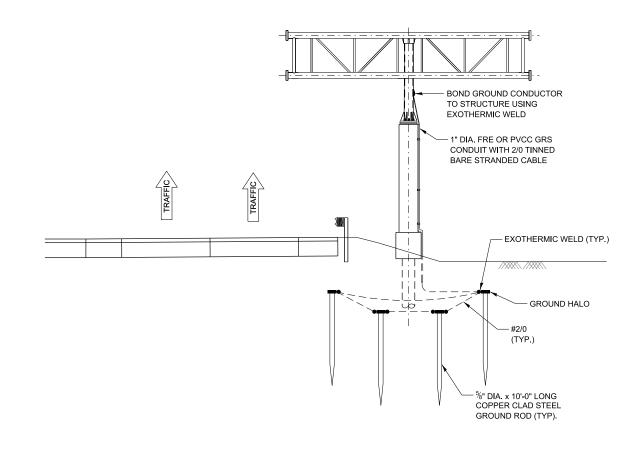
M-OHS-731 2022-03





#### **CANTILEVER ELEVATION**





#### **BUTTERFLY ELEVATION**

#### NOTES:

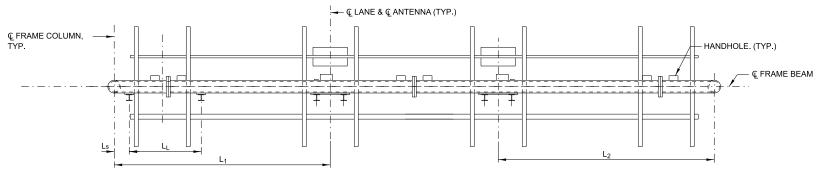
- GROUNDING SYSTEM SHALL BE PLACED WITHIN ILLINOIS TOLLWAY RIGHT-OF-WAY.
- 2. INSTALL MARKER TAPE DIRECTLY ABOVE GROUNDING ELECTRODE CONDUCTORS
- 3. THE COST OF ALL MATERIALS, EXOTHERMIC WELDING, GROUND WELL, GROUND RODS AND ALL OTHER ITEMS TO COMPLETE THE GROUNDING ELECTRODE SYSTEM SHALL BE INCLUDED IN THE COST OF THE SIGN STRUCTURE.
- 4. GROUND RODS SHALL BE INSTALLED IN GROUND WELLS IN FINISHED GRADE UNLESS INSTALLED UNDER SHOULDERS OR PAVEMENT.
- 5. CA-11, A QUALITY, IN ACCORDANCE WITH SSRBC 1004.



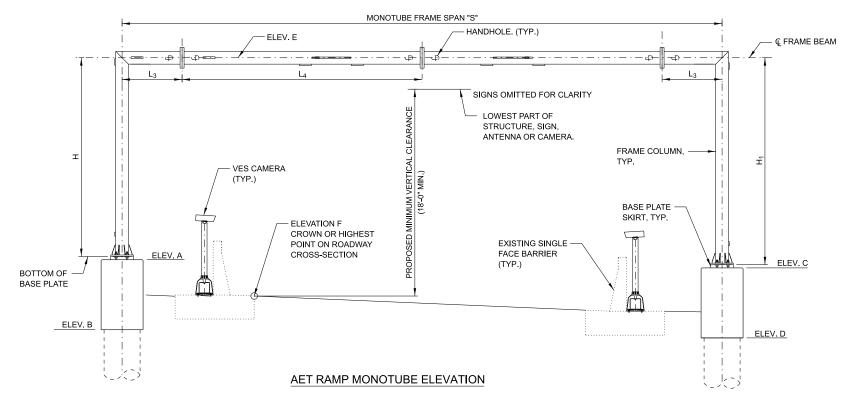


SITE GROUNDING PLANS
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### BASE SHEET: 021-03 M-OHS-733



#### AET RAMP MONOTUBE PLAN



												SUN	MARY								
STRUCTURE	STATION	SPAN "S"			ELEV/	ATIONS			PROPOSED MINIMUM			SHEE	ET 2 OF S	TANDARD	F21			FOUND FOR OV SIGN STF		REINFORCEMENT BARS, EPOXY	PROTECTIVE COAT
NUMBER	STATION	(FT)	A	В	С	D	Ш	F	VERTICAL CLEARANCE	L <sub>S</sub>	Լլ	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	L <sub>4</sub>	Н	H <sub>1</sub>	CLASS SI CONCRETE (CU YD)	CLASS DS CONCRETE (CU YD)	COATED (POUNDS)	(SQ YD)
		<u> </u>															TOTAL				

	TOTAL BILL OF MATERIAL		
PAY ITEM	DESCRIPTION	UN <b>I</b> T	TOTAL
JS733640	OVERHEAD SIGN STRUCTURE, AET RAMP SINGLE MONOTUBE TYPE (STEEL)	FOOT	XXX'-XX"
JS734F10	FOUNDATION FOR OVERHEAD SIGN STRUCTURE, RAMP MONOTUBE TYPE	CU YD	XXX.X
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	X,XXX
50300300	PROTECTIVE COAT	SQ YD	XXX.X
<b>*</b> 51604000	DRILLED SHAFT IN ROCK	CU YD	XXX.X



## NOTE TO DESIGNER

THIS BASE SHEET SHOWS TYPICAL CONSTRUCTION BUT IT IS

NOT A STANDARD DRAWING. IT REQUIRES COMPLETION BY
THE DESIGNER PRIOR TO INSERTION INTO A CONTRACT.
MICROSTATION FILES AND THE "CADD STANDARDS MANUAL"
ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE
DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE
DESIGN OF THIS SHEET UPON ITS COMPLETION AND
INSERTION INTO A CONTRACT. ALL "NOTE TO DESIGNER"
BOXES SHALL BE REMOVED BY THE DESIGNER PRIOR TO
INSERTION OF THE SHEET INTO THE PLAN SET.

REPLACE THIS "NOTE TO DESIGNER" WITH SITE GROUNDING ELECTRODE SYSTEM DETAIL.

SITE GROUNDING ELECTRODE SYSTEM TO BE PROVIDED AS DETAILED. (REFERENCE BASE SHEET M-ITS-1101)

SEE ILLINOIS TOLLWAY STRUCTURE DESIGN MANUAL FOR MINIMUM VERTICAL CLEARANCE REQUIREMENTS.

Illinois Tollway

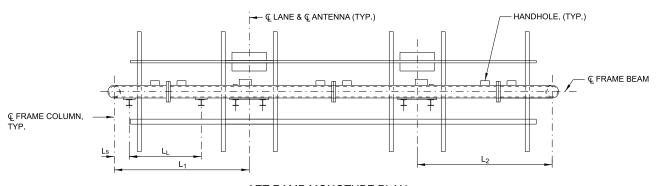
OVERHEAD SIGN STRUCTURE
AET RAMP MONOTUBE TYPE
(STEEL) GROUND MOUNTED
SUMMARY AND TOTAL BILL
OF MATERIAL

WORK THIS SHEET WITH STANDARD F21

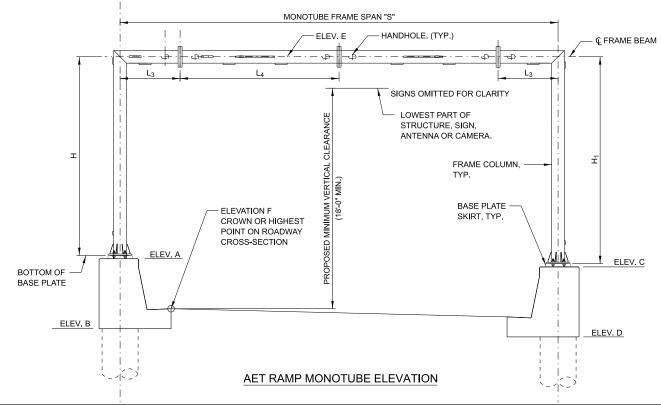
NOTE:

VERSION: BASE SHEET: M-OHS-734

SHEET: 1 OF 1



#### AET RAMP MONOTUBE PLAN



												SUN	/MARY									
STRUCTURE NUMBER	STATION	SPAN "S" (FT)	ELEVATIONS						PROPOSED MINIMUM	SHEET 2 OF STANDARD F22								FOUNDATION FOR OVERHEAD SIGN STRUCTURE		SINGLE FACE BARRIER	REINFORCEMENT BARS, EPOXY	PROTECTIVE COAT
			A	В	С	D	E	F	VERTICAL CLEARANCE	L <sub>S</sub>	Լլ	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	L <sub>4</sub>	Н	H <sub>1</sub>	CLASS SI CONCRETE (CU YD)	CLASS DS CONCRETE (CU YD)	CONCRETE STRUCTURES (CU YD)	COATED	(SQ YD)
	I	1															TOTAL					

	TOTAL BILL OF MATERIAL		
PAY ITEM	DESCRIPTION	UN <b>I</b> T	TOTAL
JS733640	OVERHEAD SIGN STRUCTURE, AET RAMP SINGLE MONOTUBE TYPE (STEEL)	FOOT	XXX'-XX"
JS734F10	FOUNDATION FOR OVERHEAD SIGN STRUCTURE, RAMP MONOTUBE TYPE	CU YD	XXX.X
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	X,XXX
50300300	PROTECTIVE COAT	SQ YD	XXX.X
<b>*</b> 51604000	DRILLED SHAFT IN ROCK	CU YD	XXX.X

ZZZZZZZZZZZZZ
NOTE TO DESIGNER
*INCLUDE THIS PAY ITEM IF ROCK IS ENCOUNTERED.  QUANTITY OF DRILLED SHAFT IN ROCK IS NOT INCLUDED IN THE PAY ITEM JS734F10.

# NOTE TO DESIGNER

THIS BASE SHEET SHOWS TYPICAL CONSTRUCTION BUT IT IS NOT A STANDARD DRAWING. IT REQUIRES COMPLETION BY THE DESIGNER PRIOR TO INSERTION INTO A CONTRACT. MICROSTATION FILES AND THE "CADD STANDARDS MANUAL" ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE DESIGN OF THIS SHEET UPON ITS COMPLETION AND INSERTION INTO A CONTRACT. ALL "NOTE TO DESIGNER" BOXES SHALL BE REMOVED BY THE DESIGNER PRIOR TO INSERTION OF THE SHEET INTO THE PLAN SET.

REPLACE THIS "NOTE TO DESIGNER" WITH SITE GROUNDING ELECTRODE SYSTEM DETAIL.

SITE GROUNDING ELECTRODE SYSTEM TO BE PROVIDED AS DETAILED. (REFERENCE BASE SHEET M-ITS-1101)

SEE ILLINOIS TOLLWAY STRUCTURE DESIGN MANUAL FOR MINIMUM VERTICAL CLEARANCE REQUIREMENTS. 

Illinois Tollway

OVERHEAD SIGN STRUCTURE AET RAMP MONOTUBE TYPE (STEEL) BARRIER MOUNTED SUMMÁRY AND TOTAL BILL OF MATERIAL

WORK THIS SHEET WITH STANDARD F22

NOTE:

M-OHS-735 1 OF 1