

Illinois Tollway Base Sheet Revisions
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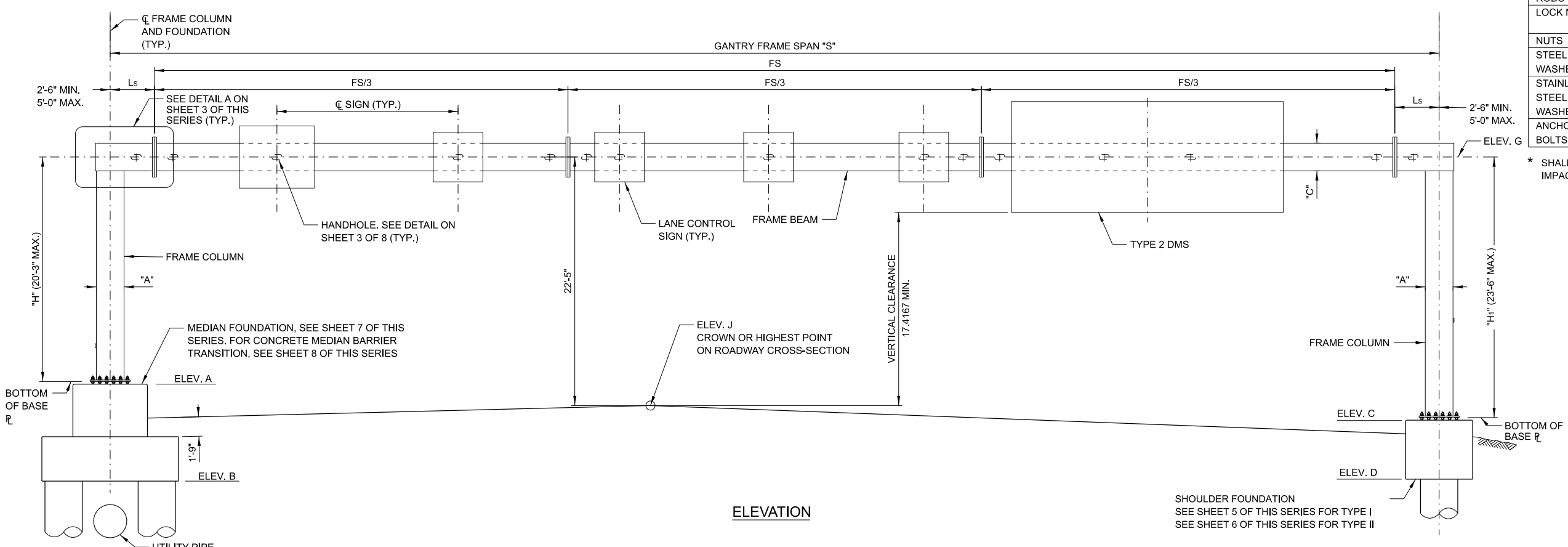
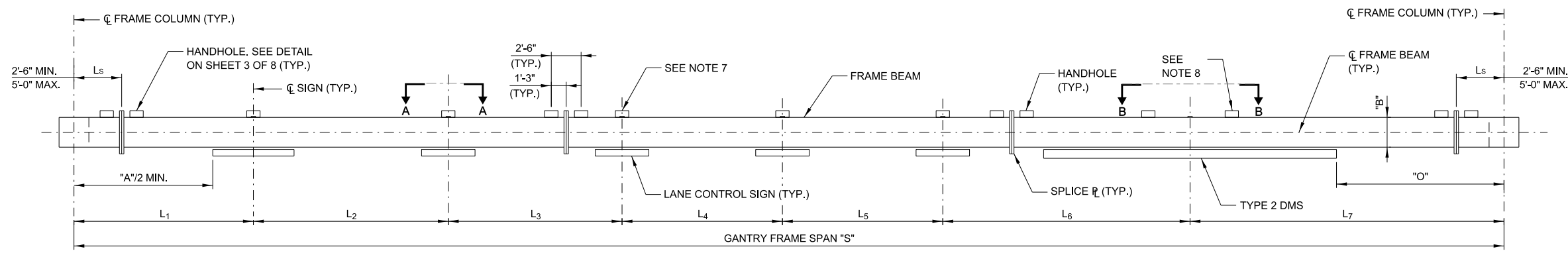
Section M	Base Sheet Drawings	
	Drawing	Modification Summary Effective: 03-01-2026
	Overhead Sign (OHS)-Series 720	
	M-OHS-729	OVERHEAD SIGN STRUCTURE ITS GANTRY FRAME (STEEL) SINGLE SPAN STRUCTURE DETAILS
	Sheet 3	Backgouge weld option included in Detail A.
	M-OHS-730	OVERHEAD SIGN STRUCTURE ITS GANTRY FRAME (STEEL) TWO-SPAN STRUCTURE DETAILS
	Sheet 3	Backgouge weld option included in Detail A.

 **New Sheet**

 **Retired Standard**

MATERIAL SPECIFICATIONS FOR STRUCTURAL STEEL AND FASTENERS			
ELEMENT OF STRUCTURE	SPECIFICATION	F _y (ksi)	F _u (ksi)
STRUCTURAL STEEL TUBE FRAME (HSS)	*ASTM A1065 GRADE 50	50	62
STRUCTURAL STEEL TUBE MOUNTING BEAMS (HSS)	ASTM A500 GRADE B	46	58
STEEL SHAPES	ASTM A709, GRADE 50	50	65
STEEL PLATES	ASTM A572 GR. 50 OR ASTM A709 GR. 50	50	65
STEEL BOLTS	ASTM 325 TYPE 1	-	105
SIGN BRACKET RODS	ASTM A307	-	60
LOCK NUTS	ASTM A194 GR. 8F OR ASTM A194 GR. 2H	-	-
NUTS	ASTM A563 GRADE DH	-	-
STEEL WASHERS	ASTM F436	-	-
STAINLESS STEEL WASHERS	ASTM A240, TYPE 302	-	-
ANCHOR BOLTS	AASHTO M 314 OR ASTM F1554	55	75

* SHALL CONFORM TO THE CHARPY-V-NOTCH IMPACT ENERGY REQUIREMENT, ZONE 2



- NOTES:**
- SEE SHEET 2 OF THIS SERIES FOR VIEW A-A, VIEW B-B AND DESIGN SUMMARY TABLE.
 - 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 L₁ THROUGH L₇)
 - FRAME SPAN SHALL BE IN THE CONFIGURATION SHOWN WITH 2 COLUMNS AND 3 FIELD SECTIONS.
 - PRIOR TO FABRICATING GANTRY FRAME, THE CONTRACTOR SHALL FIELD VERIFY LOCATION OF EACH 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 SPLICE LOCATION IN BETWEEN SPLICE PLATES.
 - IF THE DISTANCE BETWEEN AN LCS TYPE 1 OR LCS TYPE 2 CENTERLINE HANDHOLE AND THE HANDHOLE 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 HANDHOLE 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.

NOTE TO DESIGNER

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 II 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 SHOULD NOT EXCEED 5'-0".

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.

TOTAL BILL OF MATERIAL			
PAY ITEM	ITEM	UNIT	TOTAL
JS734G10	FOUNDATION FOR ITS GANTRY FRAME	CU YD	XXX.X
JS710110	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

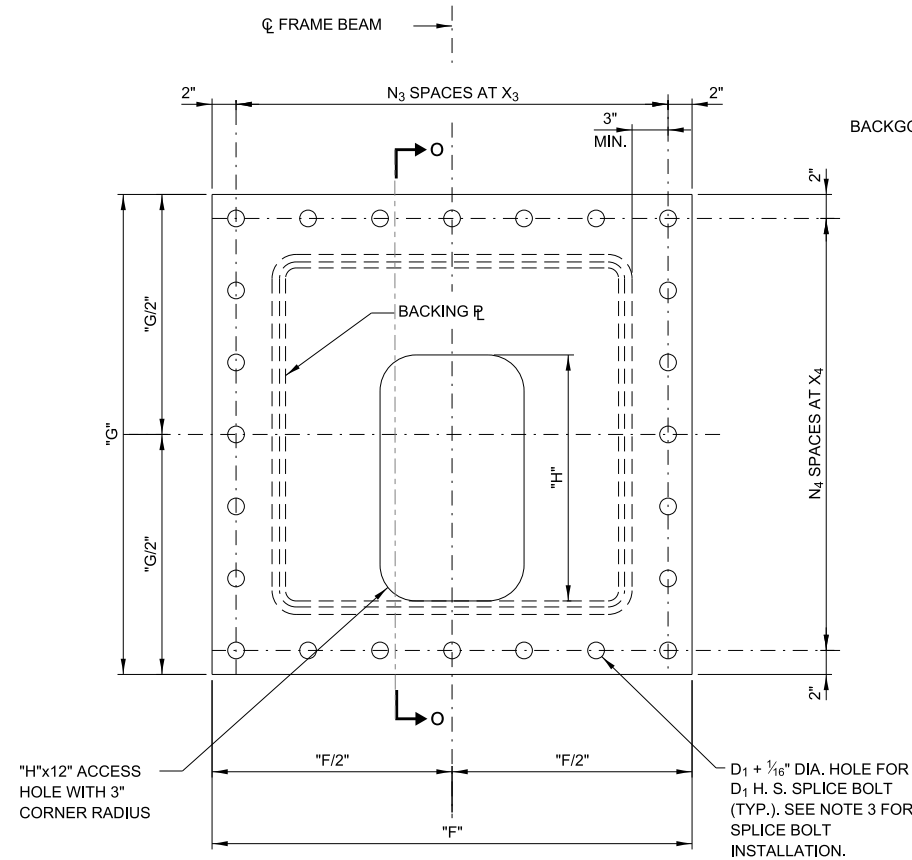
NOTE TO DESIGNER

* INCLUDE THIS PAY ITEM IF ROCK IS ENCOUNTERED. QUANTITY OF DRILLED SHAFT IN ROCK IS NOT INCLUDED IN THE PAY ITEM JS734G10.

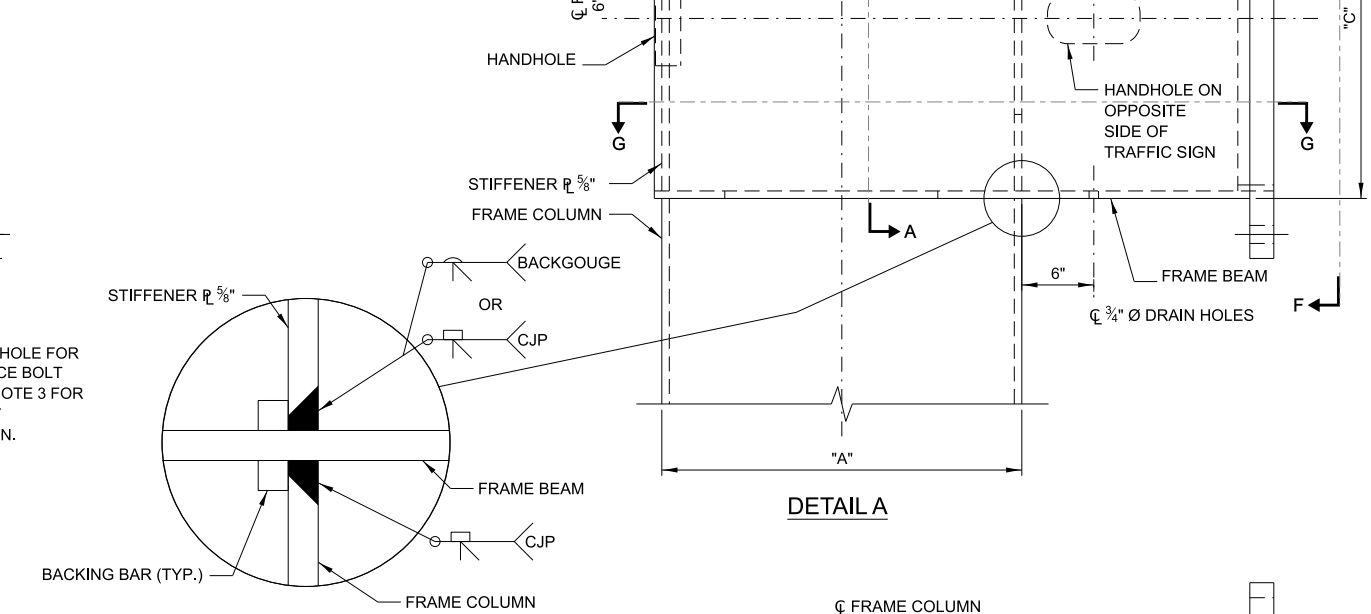
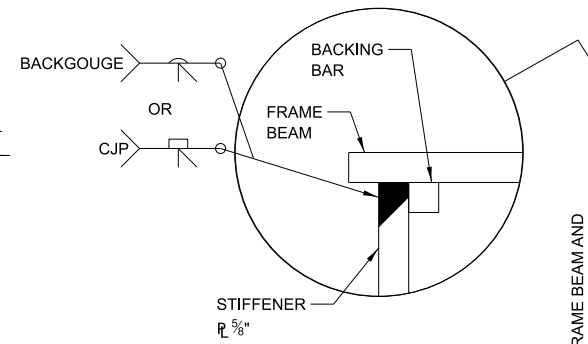
STRUCTURAL STEEL TUBE (HSS) FRAME TABLE							
SPAN "S"	FRAME COLUMN	FRAME BEAM	CAMBER	"A"	"B"	"C"	"O"
<=110'	HSS 28x24x0.625	HSS 28x24x0.500	3/2"	2'-0"	2'-4"	2'-0"	1'-0"
110'<"S"<=130'	HSS 28x28x0.625	HSS 28x24x0.625	5"	2'-4"	2'-4"	2'-0"	1'-2"
130'<"S"<=150'	HSS 30x30x0.625	HSS 30x30x0.625	5 1/2"	2'-6"	2'-6"	2'-6"	1'-3"

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

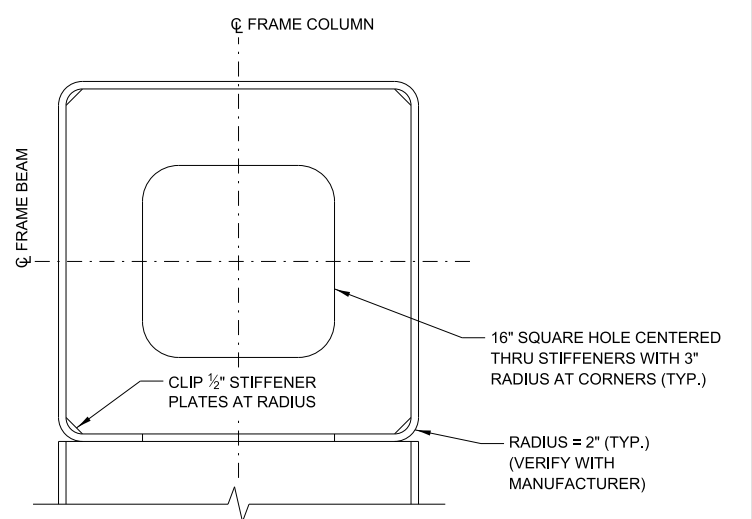
VERSION: 2026-03 BASE SHEET: M-OHS-729 SHEET: 1 OF 9



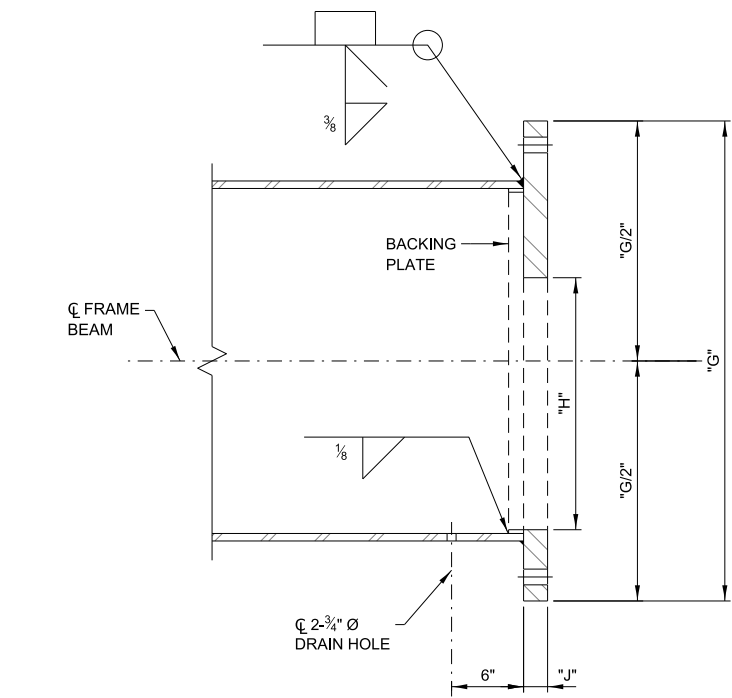
VIEW F-F



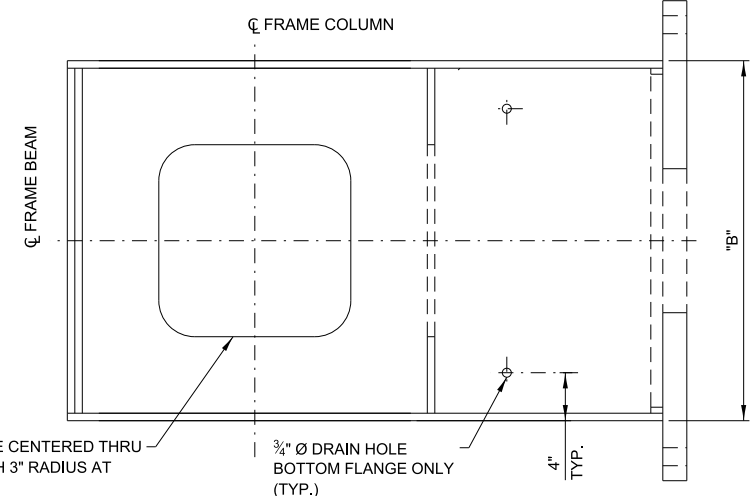
DETAIL A



SECTION A-A



SECTION O-O
SPLICE PLATE DETAIL



SECTION G-G

16" SQUARE HOLE CENTERED THRU STIFFENERS WITH 3" RADIUS AT CORNERS (TYP.)

3/4" Ø DRAIN HOLE BOTTOM FLANGE ONLY (TYP.)

NOTES:

- SEE SHEET 1 OF THIS SERIES FOR DIMENSIONS "A", "B" AND "C".
- SEE SHEET 2 OF THIS SERIES FOR DIMENSIONS "D" AND "E".
- INSTALLATION AND INSPECTION OF SPLICE BOLTS AND ANCHOR BOLTS SHALL COMPLY WITH ILLINOIS TOLLWAY SPECIAL PROVISION "INTELLIGENT TRANSPORTATION SYSTEMS GANTRY FRAME (STEEL)".
- SHOULDER FOUNDATION SHOWN. VERIFY HANDHOLE AND INSPECTION HOLES PLACEMENT ON MEDIAN FRAME COLUMN WITH THE ENGINEER.

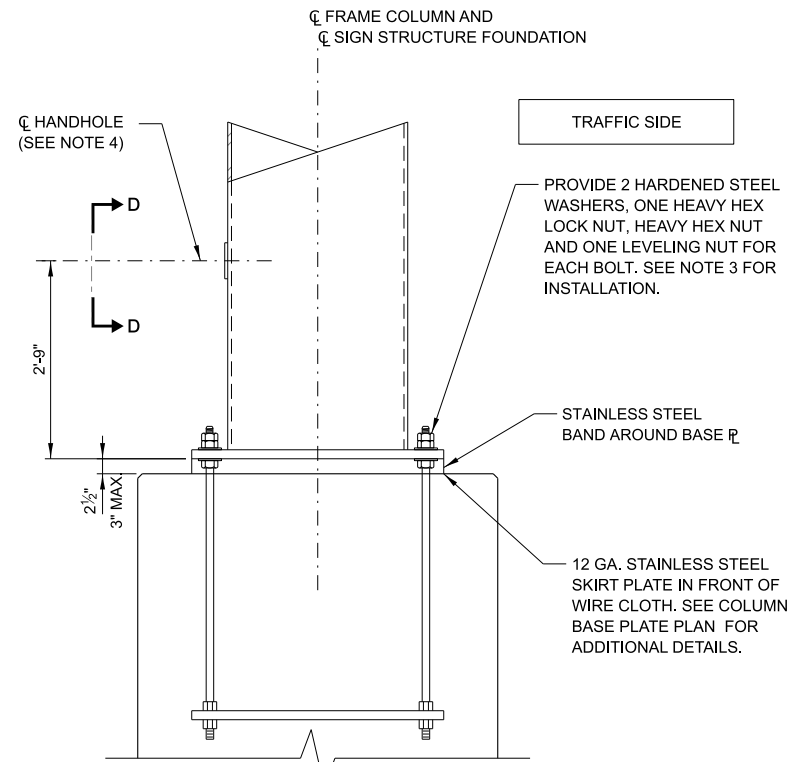
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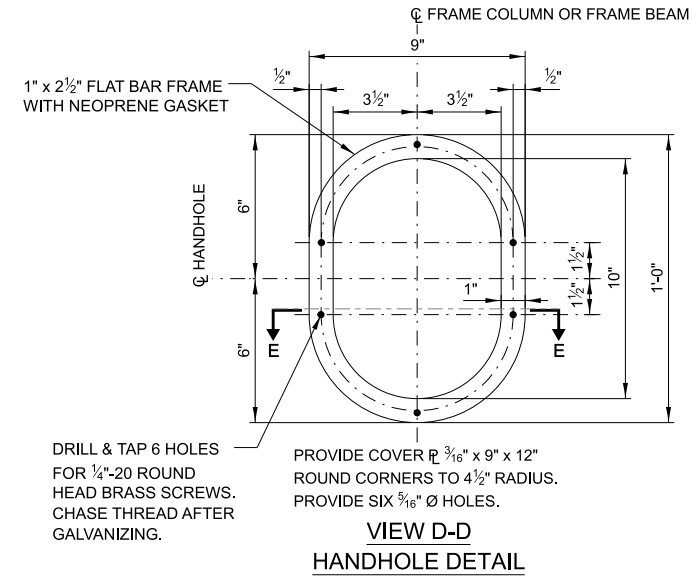
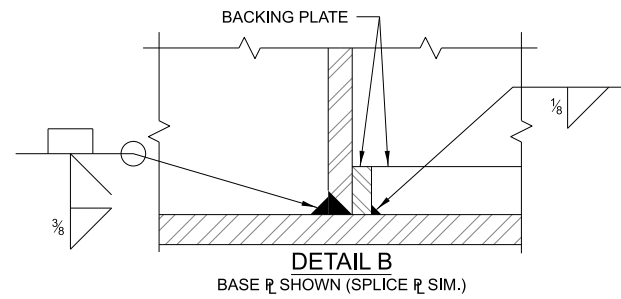
SPLICE PLATE TABLE										
SPAN "S"	F	G	H	J	N ₃	X ₃	N ₄	X ₄	SPLICE BOLT DIAMETER (D ₁)	NO. SPLICE BOLT
≤110'	3'-1"	2'-8 1/2"	1'-6"	2 1/4"	6	5 1/2"	6	4 3/4"	1"	24
110' < "S" ≤ 130'	3'-0 1/2"	2'-10"	1'-6"	2 1/4"	5	6 1/2"	5	6"	1 1/4"	20
130' < "S" ≤ 150'	3'-4"	3'-4"	1'-9"	2 3/8"	6	6"	6	6"	1 1/4"	24



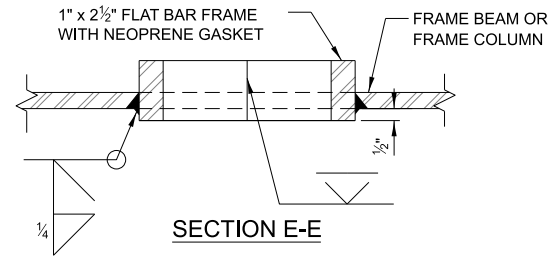
OVERHEAD SIGN STRUCTURE
ITS GANTRY FRAME (STEEL)
SINGLE SPAN STRUCTURE
DETAILS



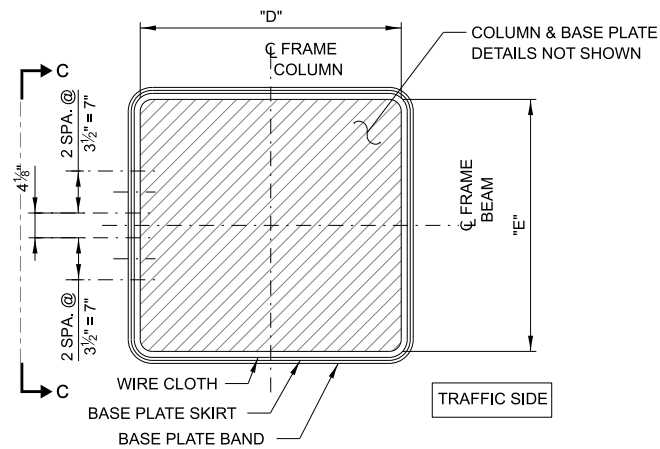
COLUMN BASE
REINFORCING NOT SHOWN



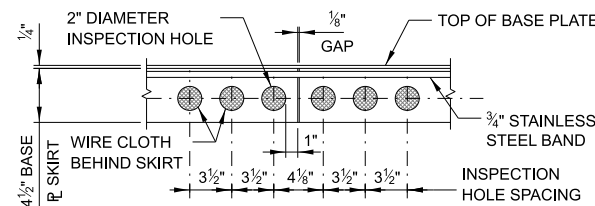
VIEW D-D
HANDHOLE DETAIL



SECTION E-E



COLUMN BASE PLATE PLAN



VIEW C-C (BASE PLATE SKIRT)

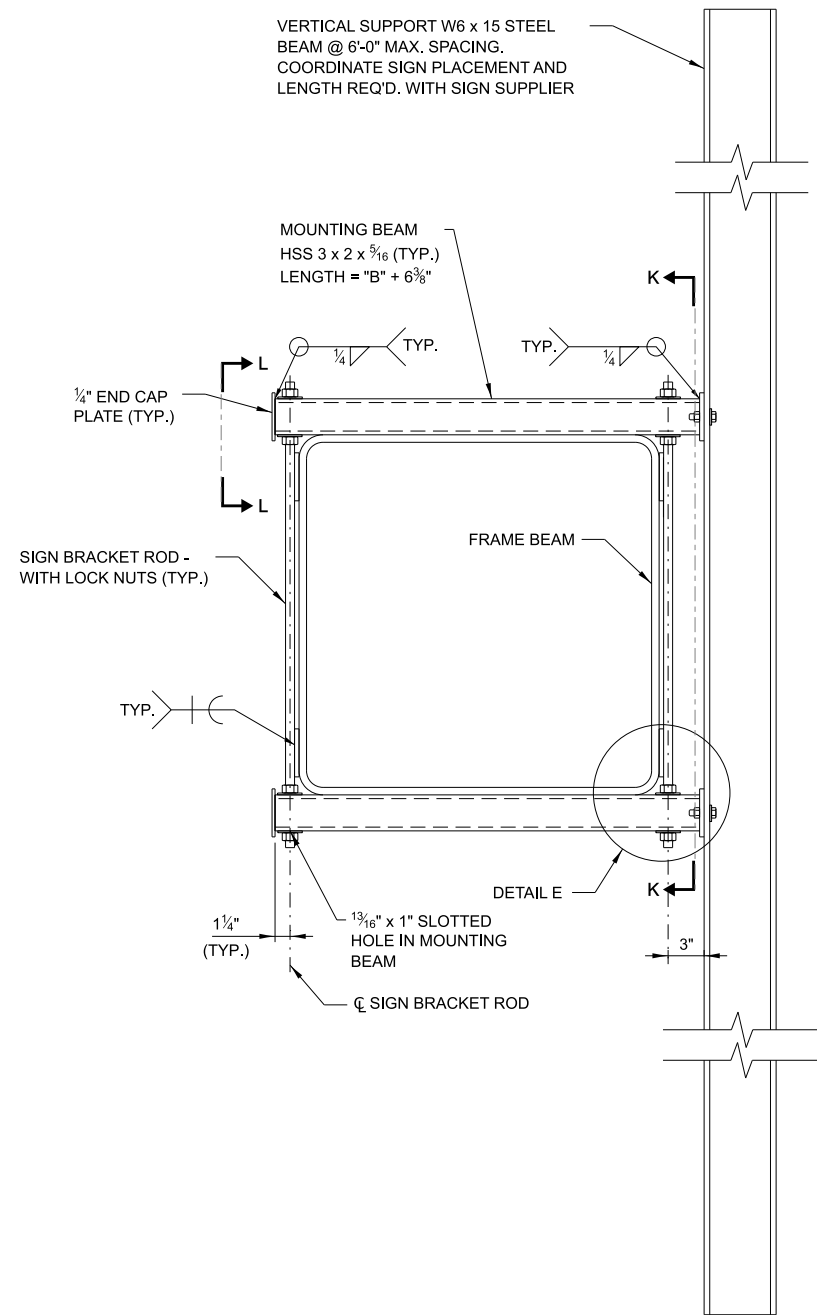
NOTE TO DESIGNER

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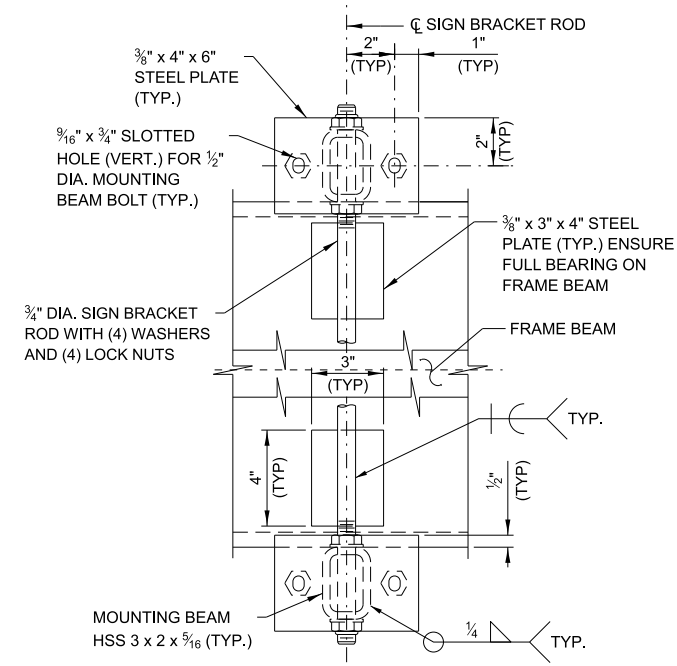
VERIFY HANDHOLE AND INSPECTION HOLES PLACEMENT ON MEDIAN FRAME COLUMN WITH ILLINOIS TOLLWAY ITS.



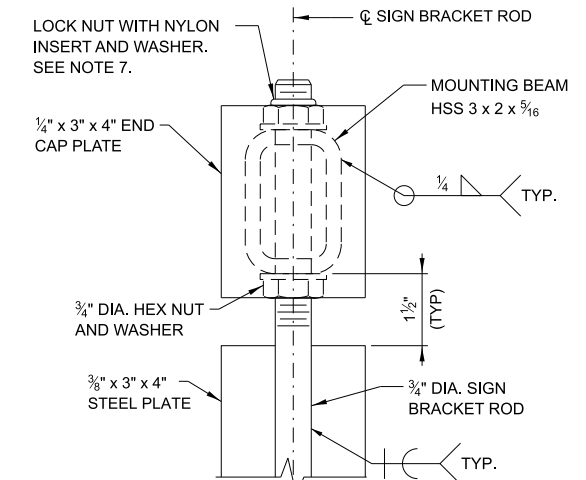
OVERHEAD SIGN STRUCTURE
ITS GANTRY FRAME (STEEL)
SINGLE SPAN STRUCTURE
DETAILS



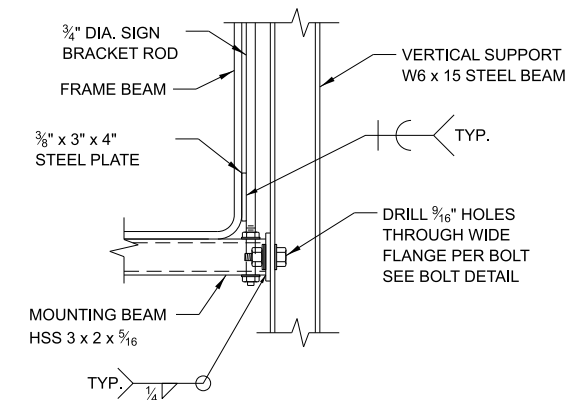
CONNECTION SIDE VIEW



SECTION K-K



VIEW L-L

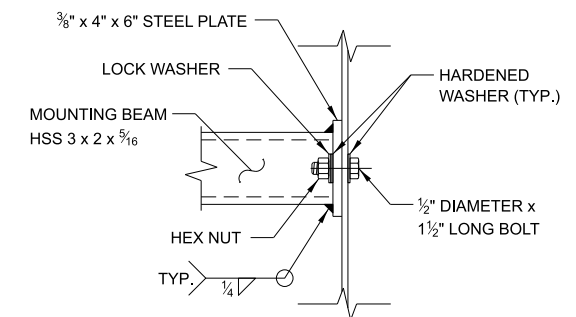


DETAIL E

VERTICAL SUPPORT TABLE		
W6x15		
SIGN WIDTH		NUMBER OF VERTICAL SUPPORTS 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

NOTES:

- 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.
- 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

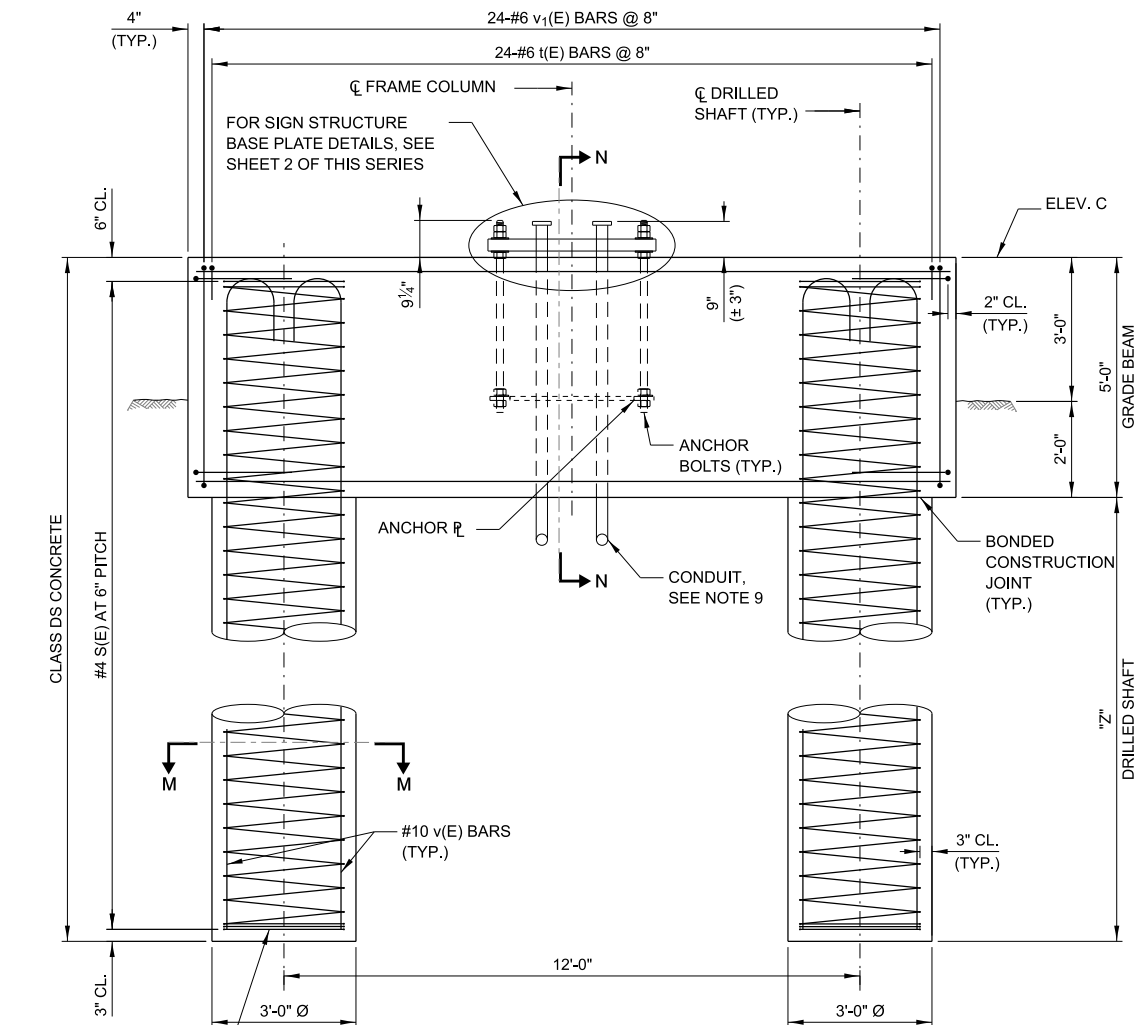
SIGN BRACKET ROD NOT SHOWN FOR CLARITY

NOTE TO DESIGNER

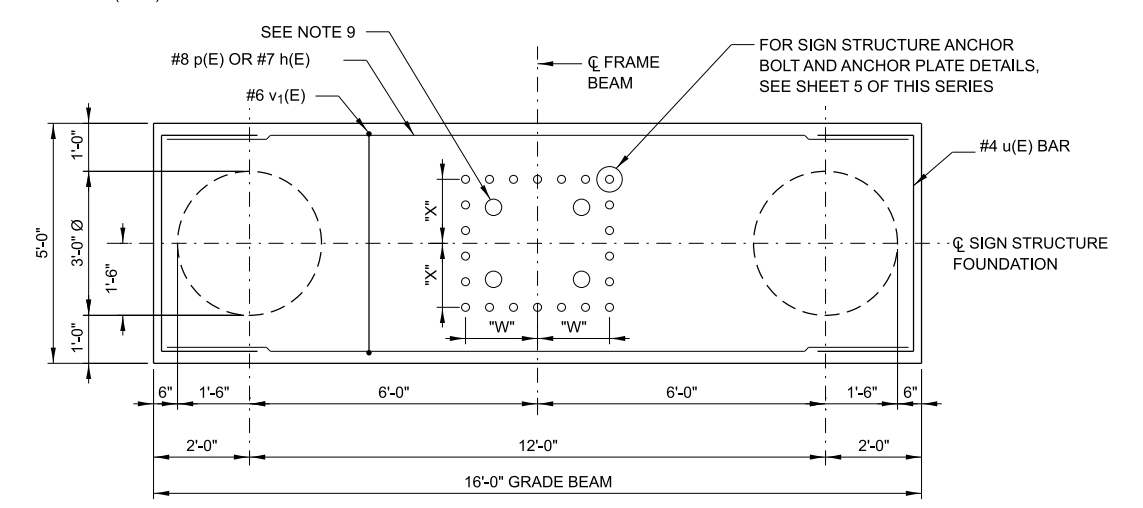
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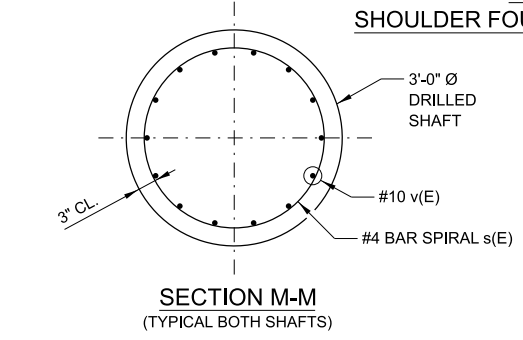
OVERHEAD SIGN STRUCTURE ITS GANTRY FRAME (STEEL) SINGLE SPAN STRUCTURE DETAILS



ELEVATION
SHOULDER FOUNDATION TYPE II

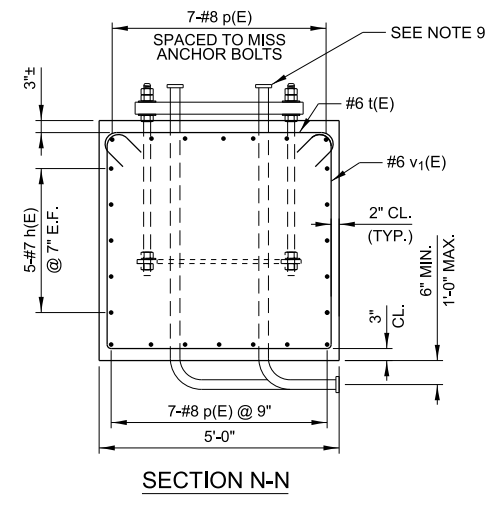


PLAN
SHOULDER FOUNDATION TYPE II

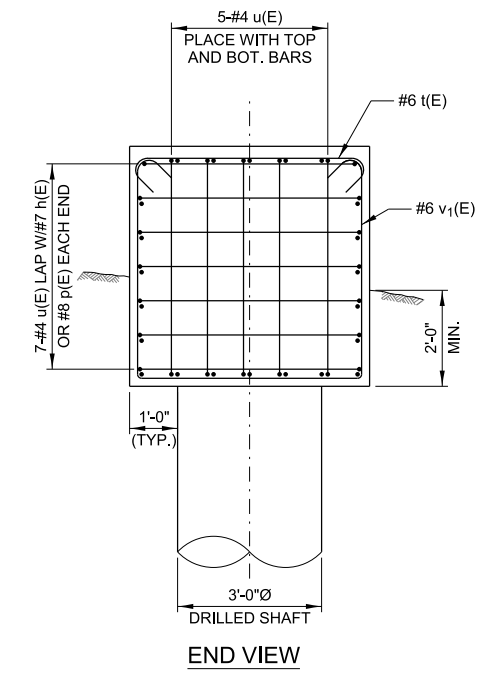


SECTION M-M
(TYPICAL BOTH SHAFTS)

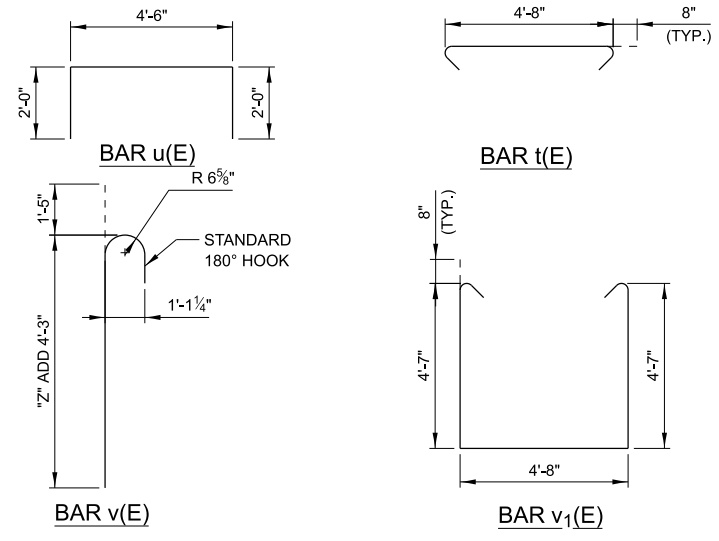
SHOULDER FOUNDATION TYPE II SCHEDULE					
SPAN "S"	"Z"	"W"	"X"	CLASS DS CONCRETE (CU YD)	REINF. BARS (LB)
<=110'	38'-0"	1'-5 1/2"	1'-4"	35.0	8,020
110'<"S"<=130'	42'-0"	1'-6"	1'-5 1/2"	37.0	8,590
130'<"S"<=150'	46'-0"	1'-6"	1'-6 3/4"	39.0	9,150



SECTION N-N



END VIEW



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 FRAME".
- 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
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.

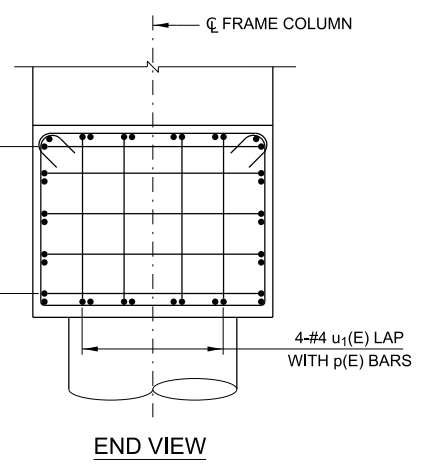
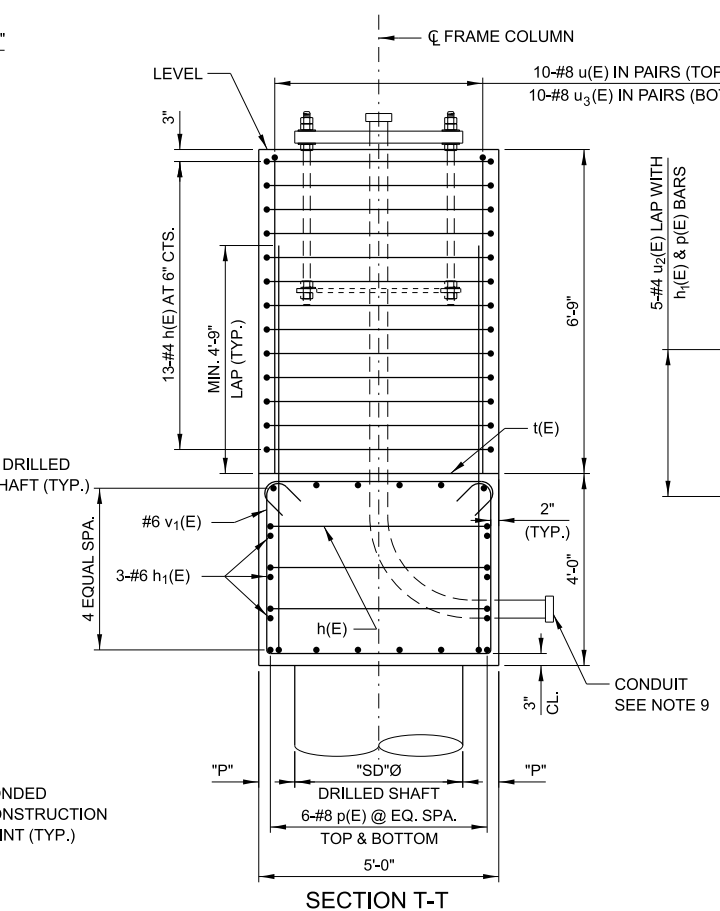
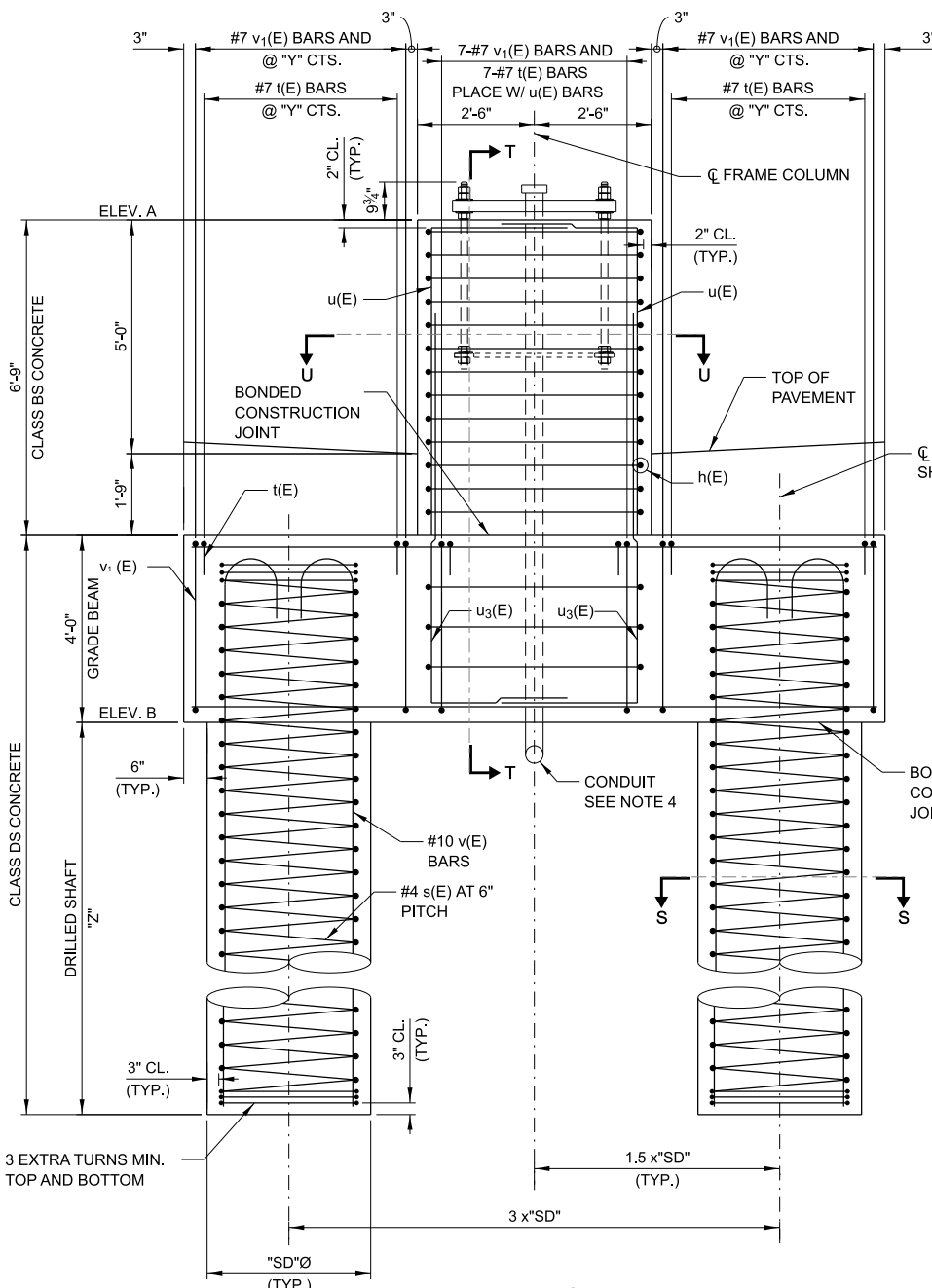
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REINFORCEMENT BAR SCHEDULE (2 DRILLED SHAFTS AND 1 GRADE BEAM)					
SPAN "S"	BAR	NO.	SIZE	LENGTH	SHAPE
"S" <= 110'	h(E)	10	#7	15'-8"	—
	p(E)	14	#8	15'-8"	—
	t(E)	24	#6	6'-0"	U
	s(E)	2	#4	42'-3"	MWW
	v(E)	28	#10	43'-8"	C
	v1(E)	24	#6	15'-2"	U
110' < "S" <= 130'	h(E)	10	#7	15'-8"	—
	p(E)	14	#8	15'-8"	—
	t(E)	24	#6	6'-0"	U
	s(E)	2	#4	46'-3"	MWW
	v(E)	28	#10	47'-8"	C
	v1(E)	24	#6	15'-2"	U
130' < "S" <= 150'	h(E)	10	#7	15'-8"	—
	p(E)	14	#8	15'-8"	—
	t(E)	24	#6	6'-0"	U
	s(E)	2	#4	50'-3"	MWW
	v(E)	28	#10	51'-8"	C
	v1(E)	24	#6	15'-2"	U

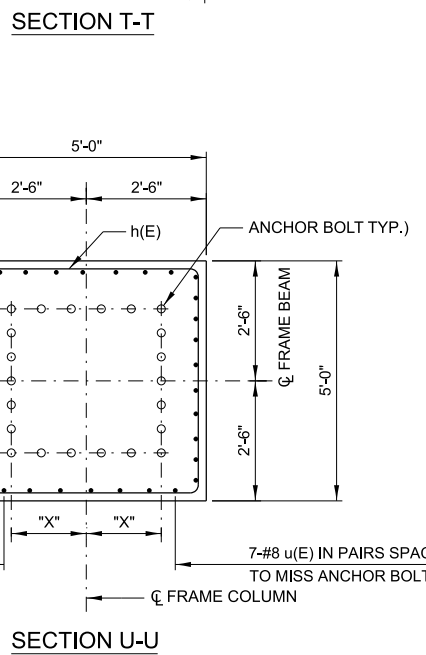
* THE LENGTH OF SPIRAL SHOWN IS THE HEIGHT OF SPIRAL.

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

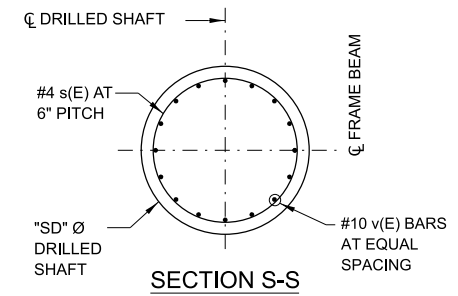
VERSION: 2026-03 BASE SHEET: M-OHS-729 SHEET: 7 OF 9



ELEVATION
MEDIAN FOUNDATION



SECTION U-U



SECTION S-S

REINFORCEMENT BAR SCHEDULE FOR ONE FOUNDATION					
SPAN "S"	BAR	NO.	SIZE	LENGTH	SHAPE
"S" <= 110'	h ₁ (E)	6	#6	12'-8"	—
	p(E)	12	#8	12'-8"	—
	t(E)	23	#7	6'-2"	—
	s(E)	2	#4	33'-3"	WWW *
	v(E)	28	#10	34'-8"	C
110' < "S" <= 130'	v ₁ (E)	23	#7	13'-4"	—
	h ₁ (E)	6	#6	14'-8"	—
	p(E)	12	#8	14'-8"	—
	t(E)	27	#7	6'-2"	—
	s(E)	2	#4	31'-3"	WWW *
130' < "S" <= 150'	v(E)	32	#10	32'-8"	C
	v ₁ (E)	27	#7	13'-4"	—
	h ₁ (E)	6	#6	14'-8"	—
	p(E)	12	#8	14'-8"	—
	t(E)	31	#7	6'-2"	—
	s(E)	2	#4	31'-3"	WWW *
	v(E)	34	#10	32'-8"	C
	v ₁ (E)	31	#7	13'-4"	—

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

REINFORCEMENT BAR SCHEDULE FOR ONE FOUNDATION				
BAR	NO.	SIZE	LENGTH	SHAPE
h(E)	16	#4	19'-5"	—
u(E)	34	#8	9'-7"	—
u ₁ (E)	8	#4	4'-11"	—
u ₂ (E)	10	#4	5'-10"	—
u ₃ (E)	34	#8	11'-4"	—

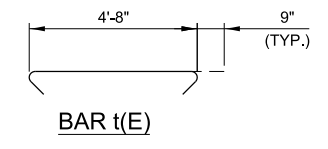
NOTE TO DESIGNER
 THIS BASE SHEET SHOWS TYPICAL CONSTRUCTION BUT IT IS NOT A STANDARD DRAWING. IT REQUIRES COMPLETION BY THE DESIGNER PRIOR TO INSERTION INTO A CONTRACT. MICROSTATION FILES AND THE "CADD STANDARDS MANUAL" ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE DESIGNER SHALL ACCEPT THE RESPONSIBILITY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

NOTES:

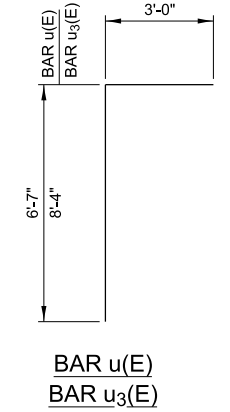
- SEE SHEET 5 OF THIS SERIES FOR FOUNDATION NOTES, DESIGN CRITERIA, ANCHOR BOLT DETAIL AND ANCHOR PLATE DETAIL.
- PROVIDE NORMAL SURFACE FINISH, FOLLOWED BY PROTECTIVE COAT APPLICATION ON ALL CONCRETE SURFACES ABOVE TOP OF GRADE BEAM.
- SEE SHEET 8 OF THIS SERIES FOR CONCRETE MEDIAN BARRIER TRANSITION. COST OF BARRIER TRANSITION INCLUDED IN COST OF "CONCRETE MEDIAN BARRIER TRANSITION, TYPE V-F".
- 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.
- PROTECTIVE COAT SHALL BE APPLIED TO TRAFFIC AND TOP FACES OF CONCRETE CRASH WALL.

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.

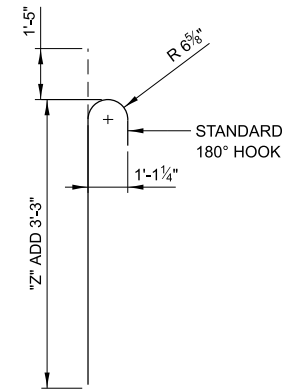
MEDIAN FOUNDATION TABLE							
SPAN "S"	"Z"	"SD"	"P"	"W"	"X"	"Y"	NO. ANCHOR BOLT
<= 110'	30'-0"	3'-0"	1'-0"	1'-5 1/2"	1'-4"	6"	18
110' < "S" <= 130'	28'-0"	3'-6"	9"	1'-6"	1'-5 1/2"	6"	22
130' < "S" <= 150'	28'-0"	3'-6"	9"	1'-6"	1'-6 3/4"	5"	22



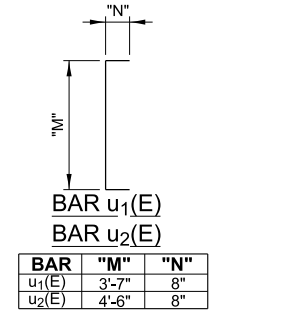
BAR t(E)



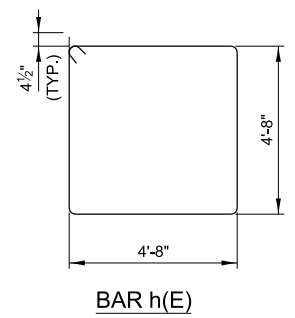
BAR u(E)
BAR u₃(E)



BAR v₁(E)



BAR u₁(E)
BAR u₂(E)

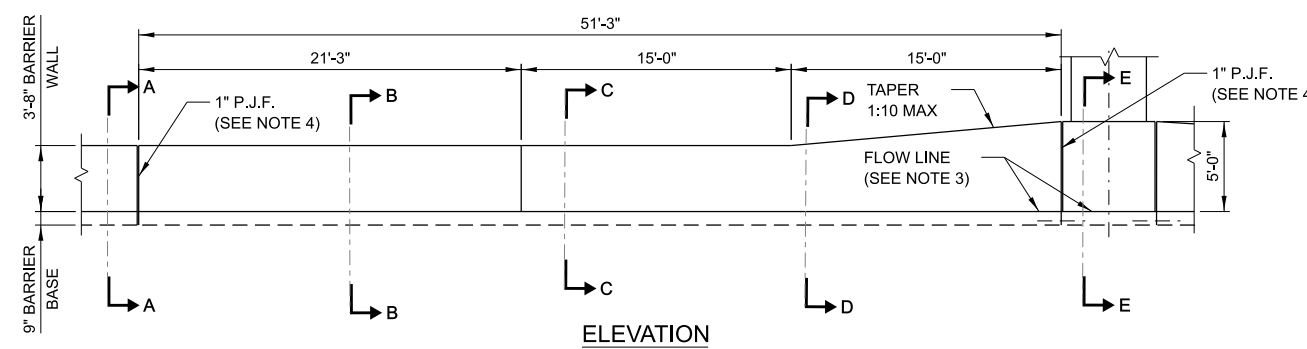
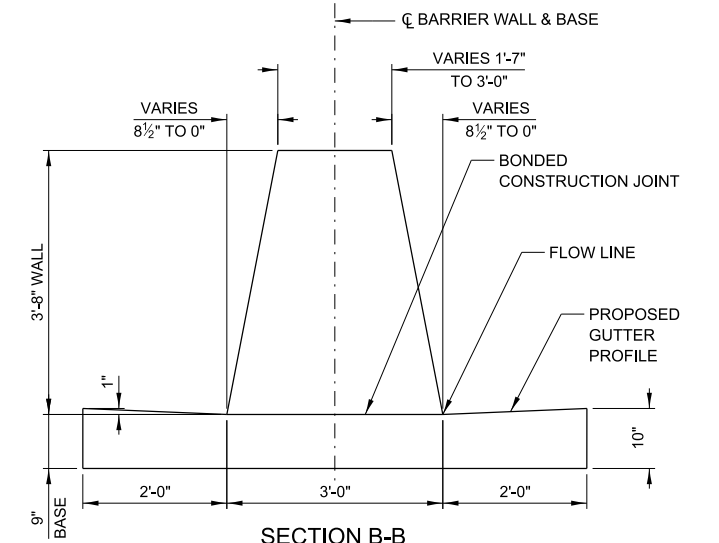
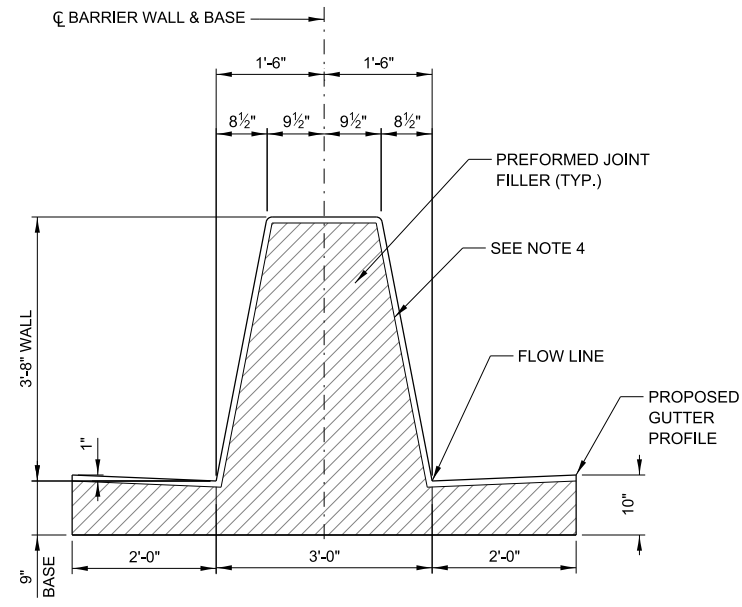
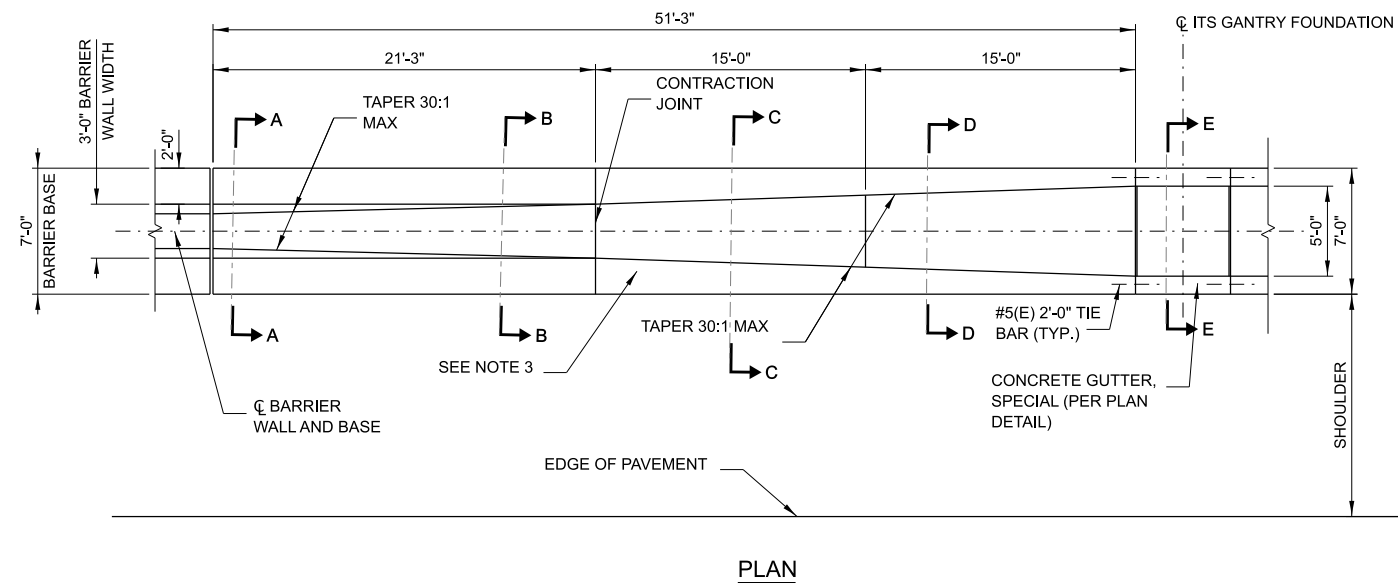


BAR h(E)

MEDIAN FOUNDATION SCHEDULE				
SPAN "S"	CLASS BS CONCRETE (CU YD)	CLASS DS CONCRETE (CU YD)	REINF. BARS (LB)	PROTECTIVE COAT (SQ YD)
<= 110'	6.3	25.3	8,540	8.3
110' < "S" <= 130'	6.3	31.1	9,220	8.3
130' < "S" <= 150'	6.3	31.1	9,650	8.3

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

VERSION: 2026-03 BASE SHEET: M-OHS-729 SHEET: 8 OF 9



CONCRETE MEDIAN BARRIER TRANSITION, TYPE V-DF AT ITS GANTRY

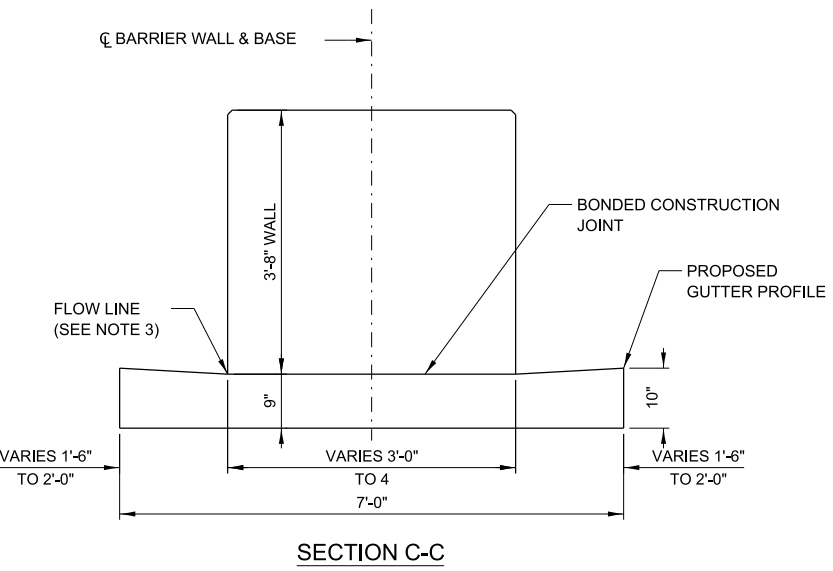
SECTION A-A

SECTION B-B

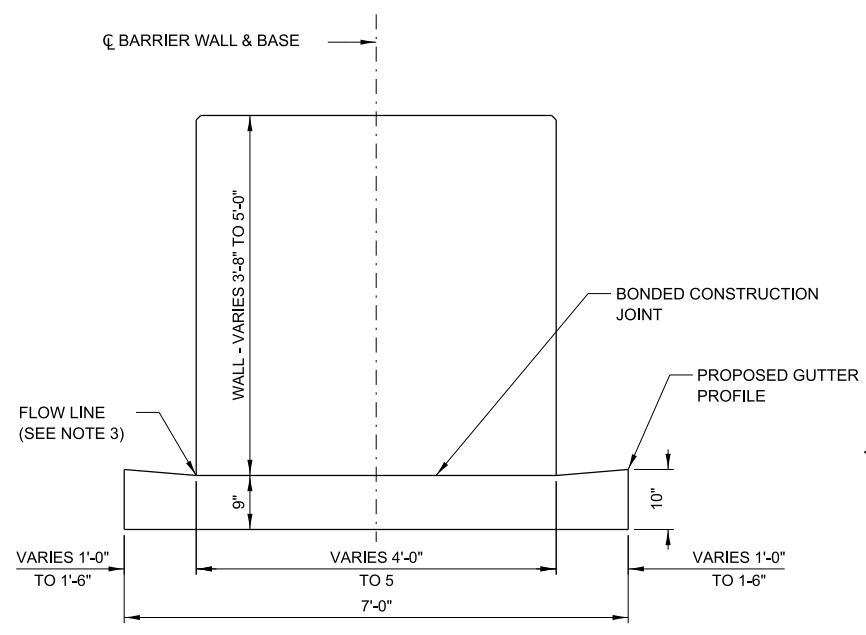
- NOTE TO DESIGNER**
1. WITHIN SECTION B-B, THE GUTTER PORTION OF THE BARRIER BASE REMAINS 2'-0"; HERETOFORE, STANDARD TYPE 20A F&G SHALL BE USED.
 2. WITHIN SECTION C-C & D-D, THE GUTTER PORTION OF THE BARRIER BASE IS LESS THAN 2'-0"; THEREFORE, NON-ILLINOIS TOLLWAY STD. F&G SHALL BE USED.
 3. WITHIN SECTION B-B & C-C, THE BARRIER HEIGHT REMAINS 44", THIS ALLOWS THE PLACEMENT OF LIGHT POLE FOUNDATIONS WITHIN THIS AREA.
 4. WITHIN SECTION D-D, THE BARRIER HEIGHT IS INCREASING FROM 44" TO 60", THE LIGHT POLE FOUNDATIONS SHALL NOT BE PLACED WITHIN THIS AREA.

NOTES:

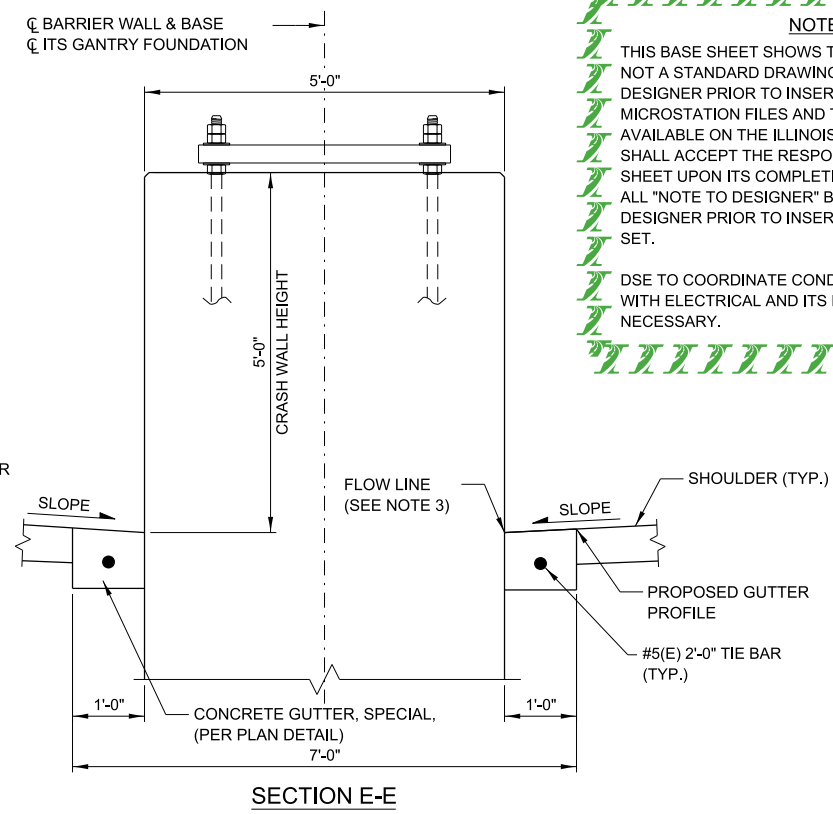
1. 2" DEEP CONTRACTION JOINTS SHALL BE CONSTRUCTED IN THE CONCRETE BARRIER WALL AND IN THE CONCRETE BARRIER BASE. CONTRACTION JOINTS SHALL ALSO BE CONSTRUCTED AT BOTH SIDES OF ALL DRAINAGE STRUCTURES. MAXIMUM JOINT SPACING SHALL BE 30'.
2. THE FORMING OF CONTRACTION JOINTS SHALL BE DONE BY SAWING.
3. GUTTER PROFILE IN THE VICINITY OF SAG VERTICAL CURVES, ALONG FLAT GRADES AND AT THE MEETING OF PROPOSED AND EXISTING GUTTER, SHALL BE CAREFULLY CONTROLLED AND FIELD ADJUSTED IF NECESSARY TO ENSURE POSITIVE DRAINAGE AND AVOID PONDING.
4. PROVIDE NON-STAINING GRAY ONE COMPONENT NON-SAG ELASTOMERIC GUN GRADE POLYURETHANE SEALANT WITH BACKER ROD.



SECTION C-C



SECTION D-D

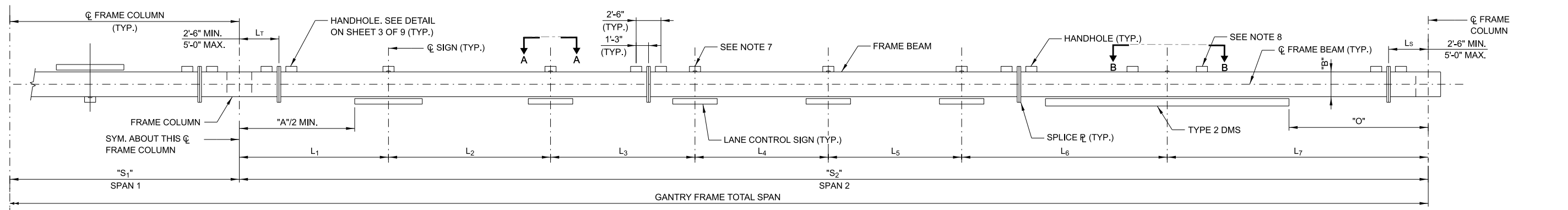


SECTION E-E

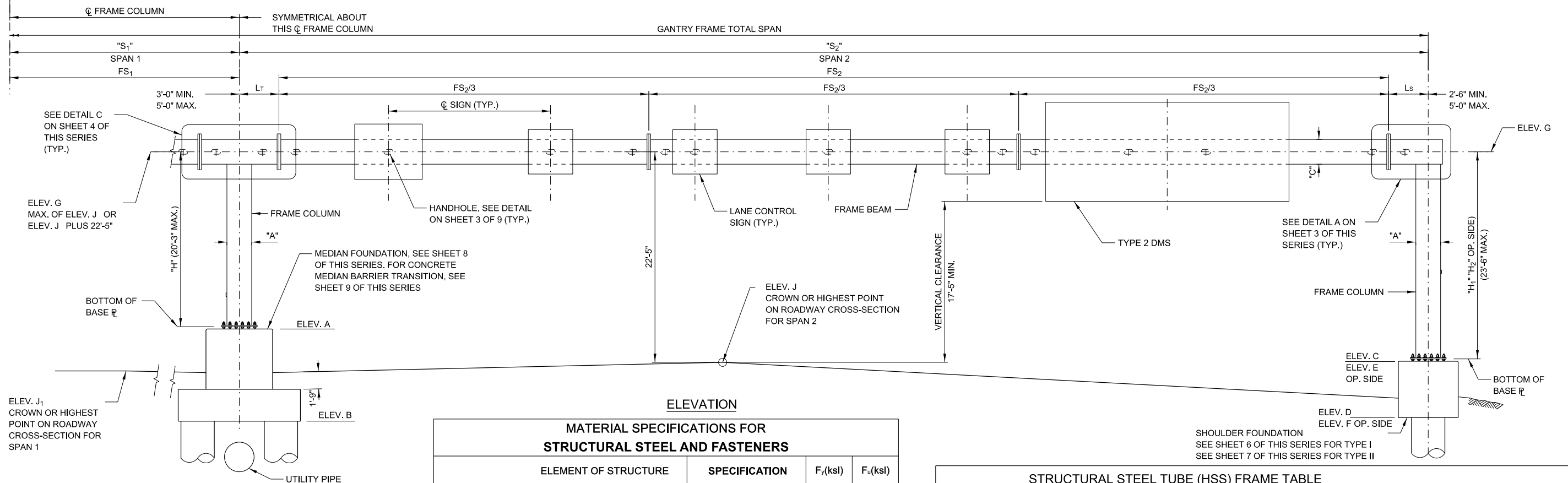
- NOTE TO DESIGNER**
- THIS BASE SHEET SHOWS TYPICAL NEW CONSTRUCTION BUT IT IS NOT A STANDARD DRAWING. IT REQUIRES COMPLETION BY THE DESIGNER PRIOR TO INSERTION INTO A CONTRACT. MICROSTATION FILES AND THE "CADD STANDARDS MANUAL" ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE DESIGNER SHALL ACCEPT 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.
- DSE TO COORDINATE CONDUIT SIZE, LOCATION AND QUANTITY WITH ELECTRICAL AND ITS PLANS. MODIFY DRAWING AS NECESSARY.

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

VERSION: 2026-03 BASE SHEET: M-OHS-729 SHEET: 9 OF 9



PLAN



ELEVATION

MATERIAL SPECIFICATIONS FOR STRUCTURAL STEEL AND FASTENERS			
ELEMENT OF STRUCTURE	SPECIFICATION	F _y (ksl)	F _u (ksl)
STRUCTURAL STEEL TUBE FRAME (HSS)	*ASTM A1065 GRADE 50	50	60
STRUCTURAL STEEL TUBE MOUNTING BEAMS (HSS)	ASTM A500, GRADE B	46	58
STEEL SHAPES	ASTM A709, GRADE 50	50	65
STEEL PLATES	ASTM A572 GR. 50 OR ASTM A709 GR. 50	50	65
STEEL BOLTS	ASTM 325 TYPE 1	-	105
SIGN BRACKET RODS	ASTM A307	-	60
LOCK NUTS	ASTM A194 GR. 8F OR ASTM A194 GR. 2H	-	-
NUTS	ASTM A563 GRADE DH	-	-
STEEL WASHERS	ASTM F436	-	-
STAINLESS STEEL WASHERS	ASTM A240, TYPE 302	-	-
ANCHOR BOLTS	AASHTO M 314 OR ASTM F1554	55	75

* SHALL CONFORM TO THE CHARPY-V-NOTCH IMPACT ENERGY REQUIREMENT, ZONE 2

STRUCTURAL STEEL TUBE (HSS) FRAME TABLE								
MAX. SPAN "S ₁ " OR "S ₂ "	FRAME COLUMN	FRAME BEAM	"A"	"B"	"C"	"O"	SPAN "S ₁ " OR "S ₂ "	CAMBER
<=110'	HSS 28x24x0.625	HSS 28x24x0.500	2'-0"	2'-4"	2'-0"	1'-0"	<=110'	3 1/2"
110'<"S"<=130'	HSS 28x28x0.625	HSS 28x24x0.625	2'-4"	2'-4"	2'-0"	1'-2"	110'<"S"<=130'	4 1/2"
130'<"S"<=150'	HSS 30x30x0.625	HSS 30x30x0.625	2'-6"	2'-6"	2'-6"	1'-3"	130'<"S"<=150'	5"

TOTAL BILL OF MATERIAL			
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

- NOTES:**
- SEE SHEET 2 OF THIS SERIES FOR VIEW A-A, VIEW B-B AND DESIGN SUMMARY TABLE.
 - 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 VERIFY LOCATION OF EACH 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 SPLICE LOCATION IN BETWEEN SPLICE PLATES.
 - IF THE DISTANCE BETWEEN AN LCS TYPE 1 OR LCS TYPE 2 CENTERLINE HANDHOLE AND THE HANDHOLE 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 HANDHOLE 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.

NOTE TO DESIGNER

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".

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

VERSION: 2026-03 BASE SHEET: M-OHS-730 SHEET: 1 OF 10

GENERAL NOTES:

- ALL EXPOSED CONCRETE EDGES SHALL HAVE A 3/4" 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.
- 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 TOLLWAY 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 XXXXXXXX.
- ILLINOIS 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.	G	1.14
TYPE 2 DMS	62 P.S.F.	I _f (FATIGUE IMPORTANCE FACTOR)	1.0
		K _z	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.)

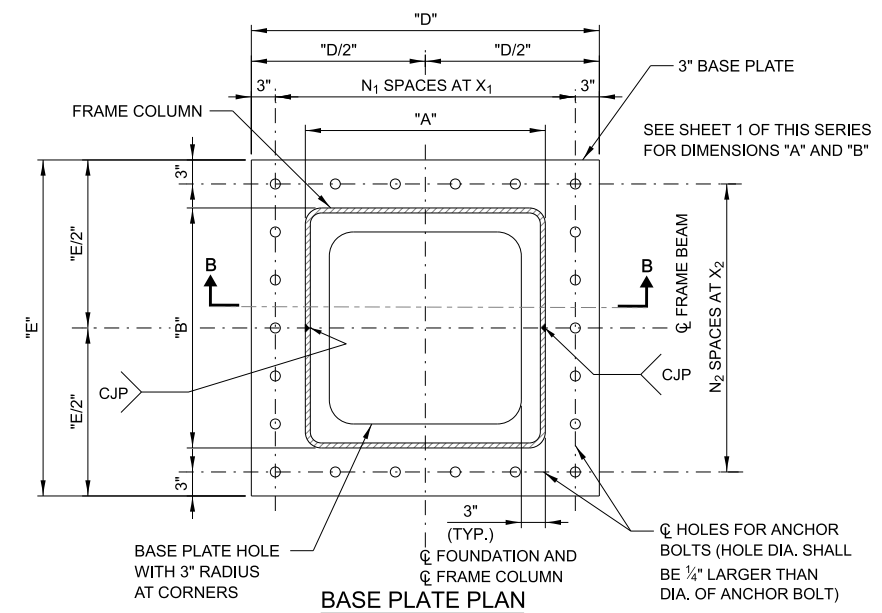
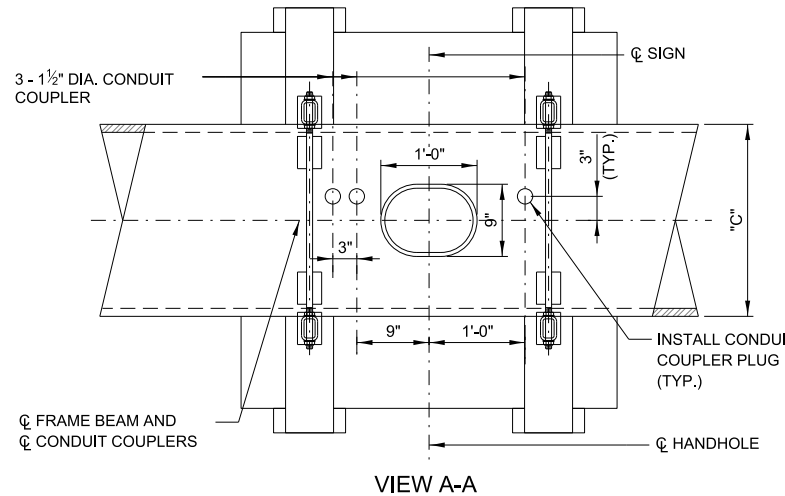
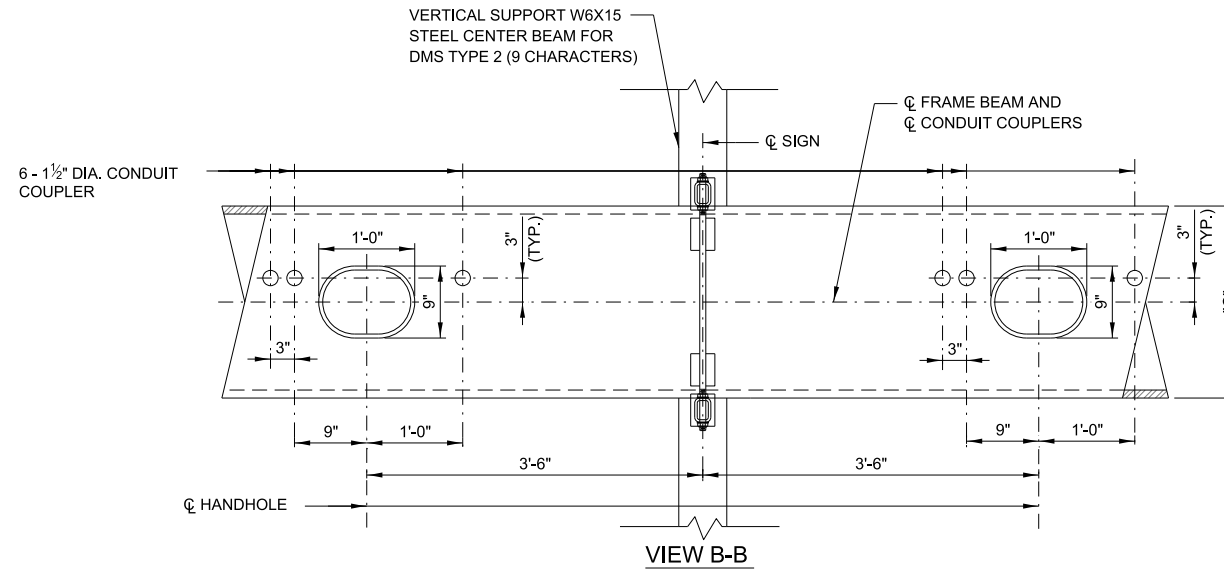
ITS GANTRY FRAMES AND FOUNDATIONS ARE DESIGNED FOR MAX. LOADING OF 2-TYPE 2 DMS PER SPAN (ONE OVER EACH SHOULDER) AND 1-LANE CONTROL SIGN IN EACH ADDITIONAL 12' LANE.

DESIGN STRESSES FOR REINFORCED CONCRETE:

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

DESIGN SPECIFICATIONS:

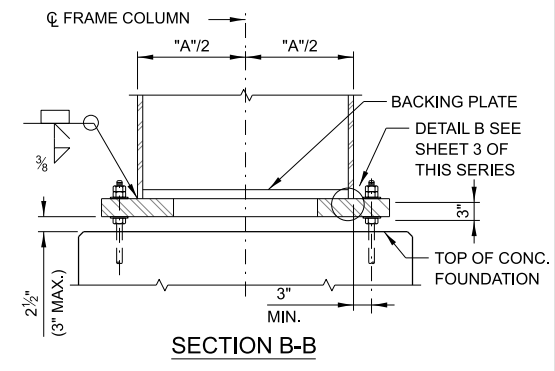
- ILLINOIS TOLLWAY STRUCTURE DESIGN MANUAL, LATEST EDITION.
- AASHTO LRFD SPECIFICATION FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS LUMINAIRES AND TRAFFIC SIGNALS, FIRST EDITION WITH CURRENT INTERIMS
- AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, NINTH EDITION, XXXXXXXX.
- ILLINOIS DEPARTMENT OF TRANSPORTATION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



MAX. SPAN "S" OR "S "	"D"	"E"	N	X	N	X	ANCHOR BOLT DIAMETER	NO. ANCHOR BOLT
≤110'	3'-2"	3'-5"	4	8"	5	7"	1 1/2"	18
110' < "S" ≤ 130'	3'-5"	3'-6"	5	7"	6	6"	1 1/2"	22
130' < "S" ≤ 150'	3'-7 1/2"	3'-6"	5	7 1/2"	6	6"	1 1/2"	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 ELIMINATED 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.

STRUCTURE NUMBER	STATION	SPANS		TOTAL SPAN (FT)	ELEVATIONS								FOUNDATION TYPE	PROPOSED MINIMUM VERTICAL CLEARANCE	FS ₁	FS ₂	L _S	L _T	H	H ₁	H ₂	FOUNDATION		REINF. BARS, EPOXY COATED (POUND)	PROTECTIVE COAT (SQ YD)
		"S ₁ " (FT)	"S ₂ " (FT)		A	B	C	D	E	F	G	J ₁										J ₂	CLASS BS CONCRETE (CU YD)		
XXX-XXXX	XXXXX-XX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXXX	XXX.XX	XXX.XX	XXX.XX	XXX.XX	XXXX-XX	XX'-XX"	XX'-XX"	XX'-XX"	XX'-XX"	XX'-XX"	XX'-XX"	XX'-XX"	XXX.XX	XXX.XX	X,XXX	XXX.XX
TOTAL																									



NOTE TO DESIGNER

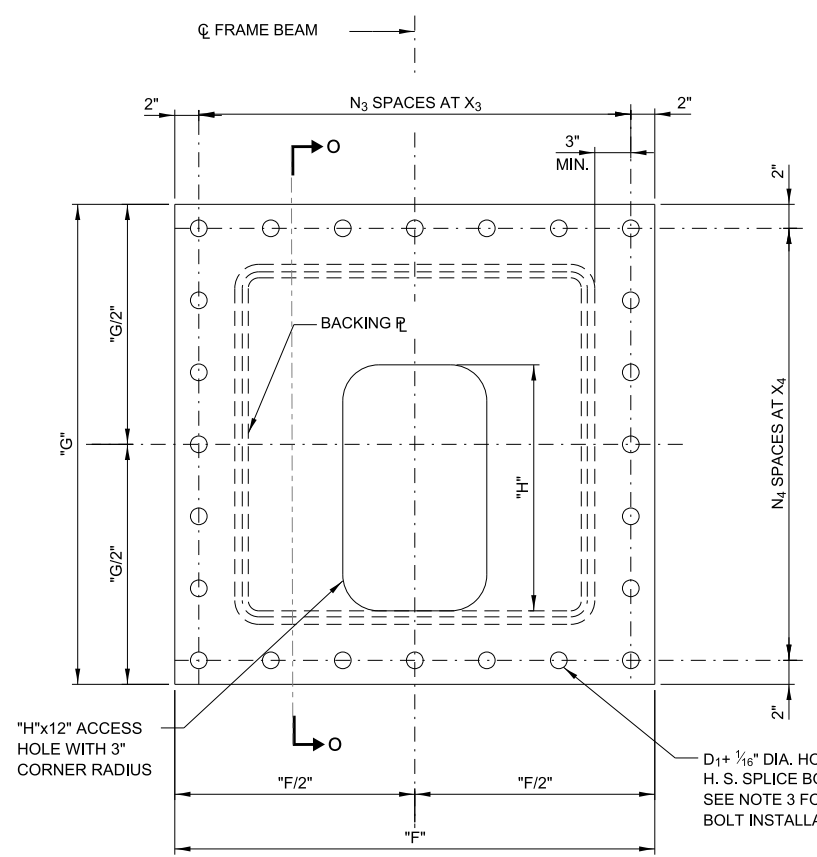
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- A BORING IS REQUIRED AT EACH FOUNDATION LOCATION.
- NO STANDARD DRILLED SHAFT FOUNDATIONS WERE DESIGNED OR DETAILED FOR COHESION LESS SOIL CONDITIONS. REGARDLESS, THE DESIGNER MUST CONDUCT A SUBSURFACE INVESTIGATION AT EACH OVERHEAD SIGN STRUCTURE 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 USED IN DESIGN.
- DESIGNER TO ENSURE ALL LATEST CODE REQUIREMENTS ARE MET.
- DESIGNER TO DETERMINE THAT APPLIED LOADS DO NOT EXCEED DESIGN VALUES.

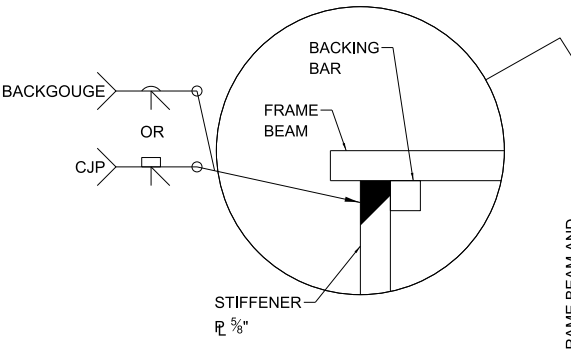
STRUCTURE NUMBER	STATION	SPAN 1							SPAN 2						
		L ₇	L ₆	L ₅	L ₄	L ₃	L ₂	L ₁	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆	L ₇
XXX-XXXX	XXXXX+XX.XX	XX'-XX"	XX'-XX"	XX'-XX"	XX'-XX"	XX'-XX"	XX'-XX"	XX'-XX"	XX'-XX"	XX'-XX"	XX'-XX"	XX'-XX"	XX'-XX"	XX'-XX"	XX'-XX"

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

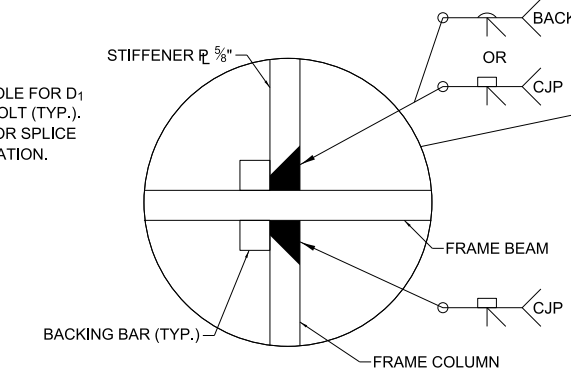
VERSION: 2026-03 BASE SHEET: M-OHS-730 SHEET: 2 OF 10



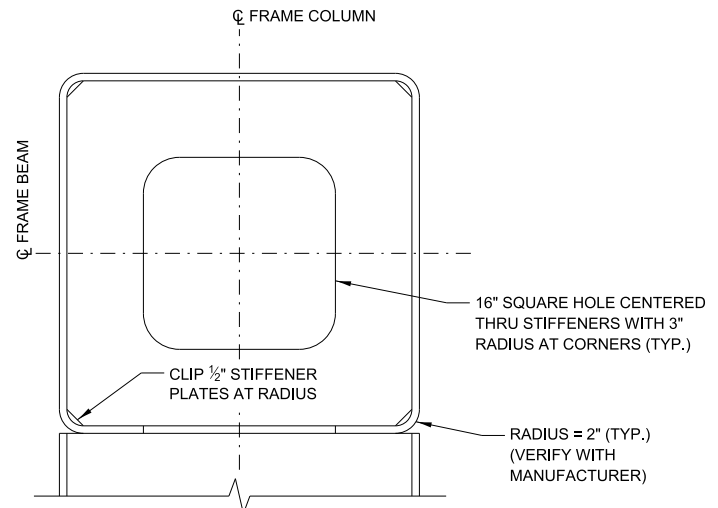
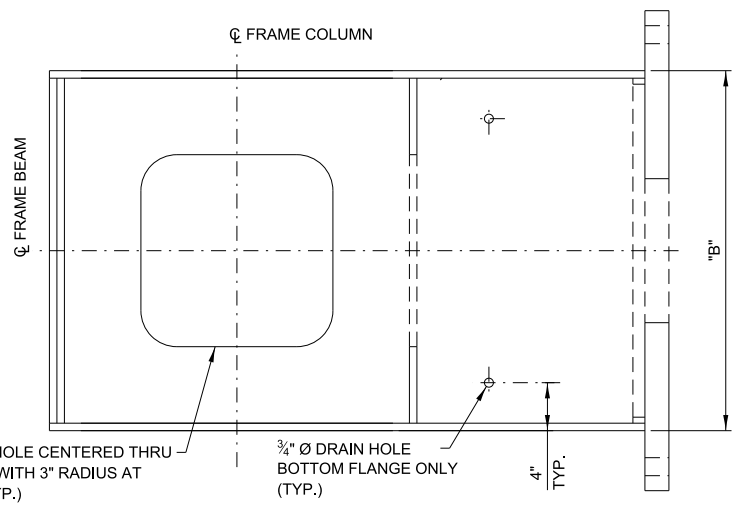
VIEW F-F



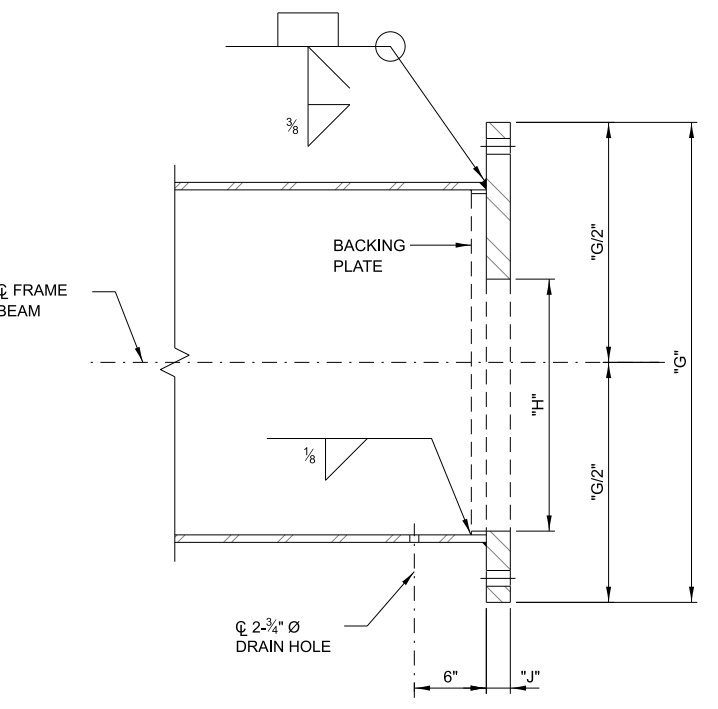
DETAIL A



SECTION G-G



SECTION A-A



SECTION O-O
SPLICE PLATE DETAIL

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.

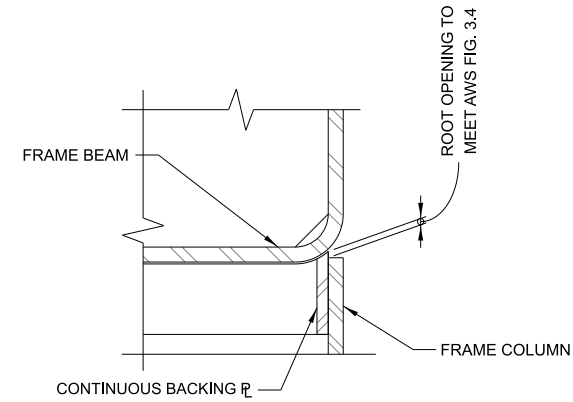
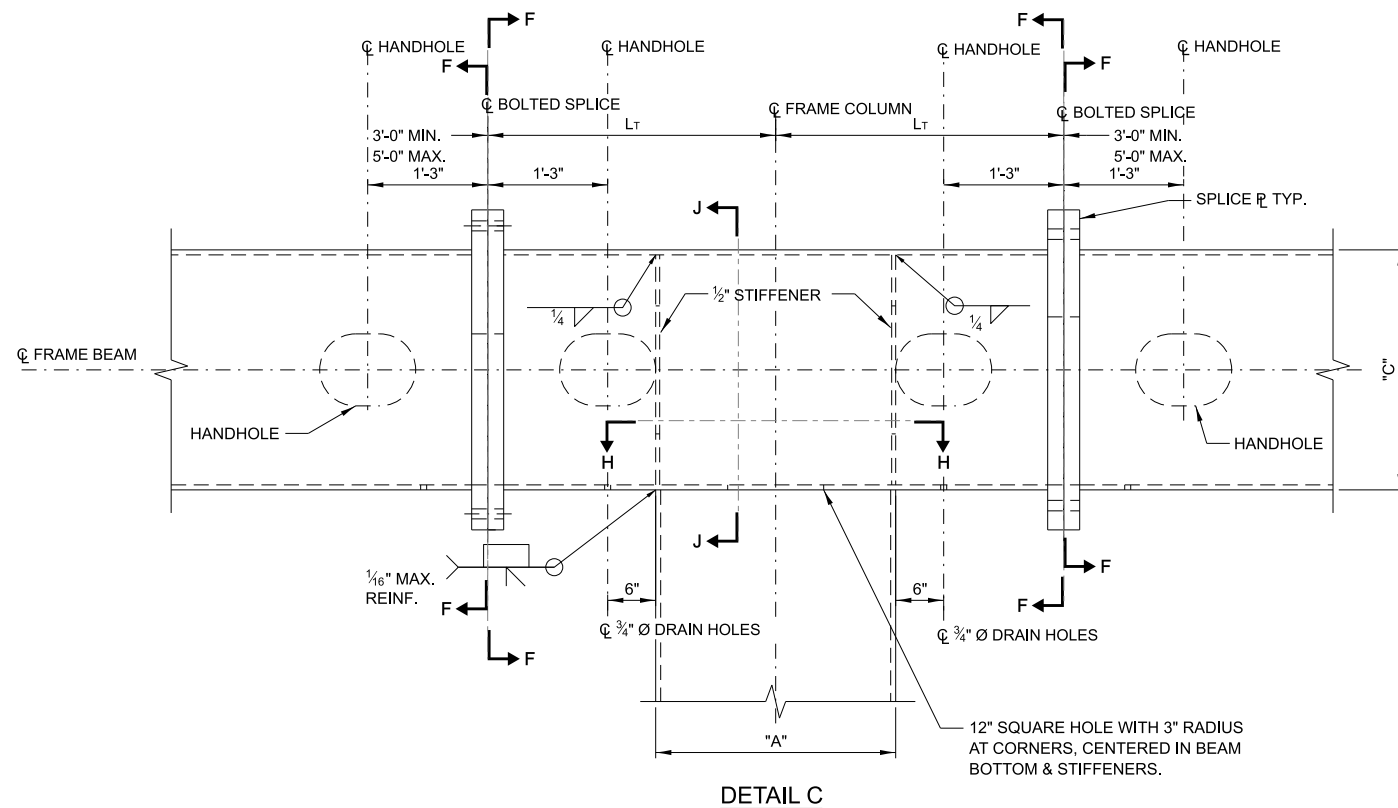
NOTES:

- SEE SHEET 1 OF THIS SERIES FOR DIMENSIONS "A", "B" AND "C".
- SEE SHEET 2 OF THIS SERIES FOR DIMENSIONS "D" AND "E".
- INSTALLATION AND INSPECTION OF SPLICE BOLTS AND ANCHOR BOLTS SHALL COMPLY WITH ILLINOIS TOLLWAY SPECIAL PROVISION "INTELLIGENT TRANSPORTATION SYSTEMS GANTRY FRAME (STEEL)".
- SHOULDER FOUNDATION SHOWN. VERIFY HANDHOLE AND INSPECTION HOLES PLACEMENT ON MEDIAN FRAME COLUMN WITH THE ENGINEER.

SPLICE PLATE TABLE										
MAX. SPAN "S ₁ " OR "S ₂ "	"F"	"G"	"H"	"J"	N ₃	X ₃	N ₄	X ₄	SPLICE BOLT DIAMETER (D1)	NO. SPLICE BOLT
<=110'	3'-1"	2'-8 1/2"	1'-6"	2 1/4"	6	5 1/2"	6	4 3/4"	1"	24
110' <"S" <=130'	3'-0 1/2"	2'-10"	1'-6"	2 1/4"	5	6 1/2"	5	6"	1 1/4"	20
130' <"S" <=150'	3'-4"	3'-4"	1'-9"	2 3/8"	6	6"	6	6"	1 1/4"	24

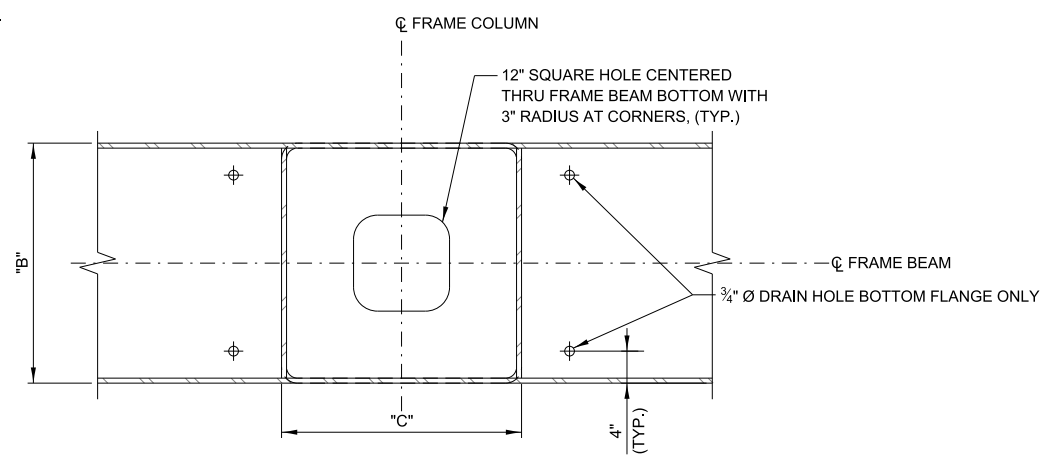


**OVERHEAD SIGN STRUCTURE
ITS GANTRY FRAME (STEEL)
TWO-SPAN STRUCTURE
DETAILS**

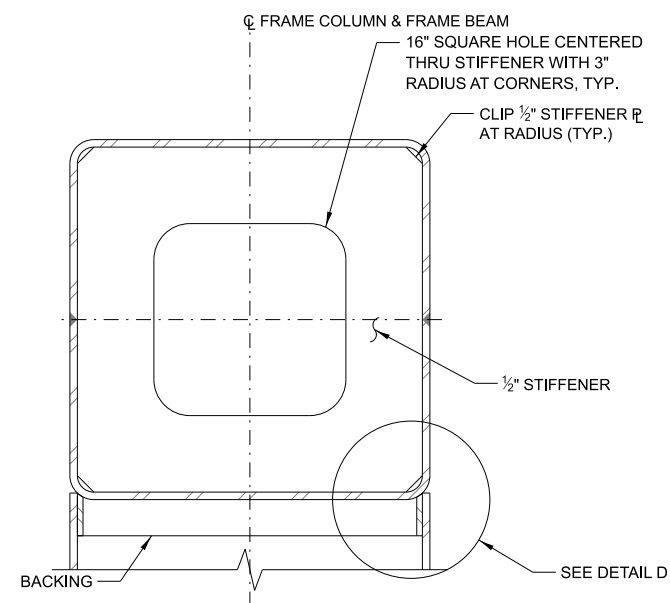


DETAIL D

- NOTES:**
- 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" AND "C".
 - SEE SHEET 3 OF THIS SERIES FOR SECTION F-F.



SECTION H-H



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.

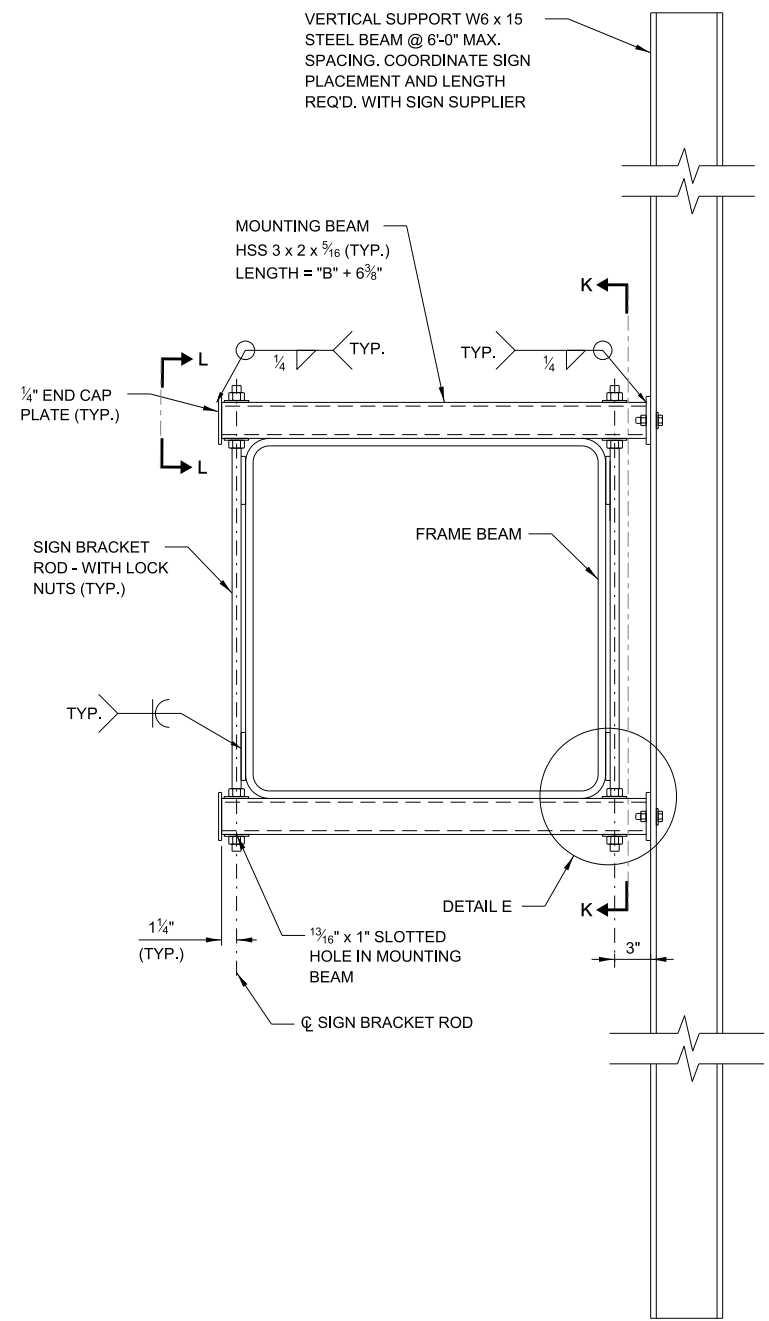
NOTE TO DESIGNER

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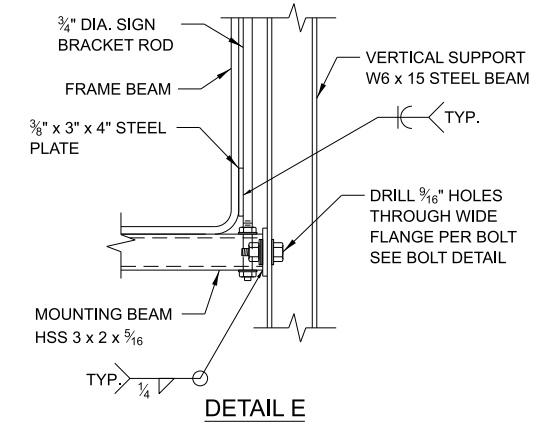
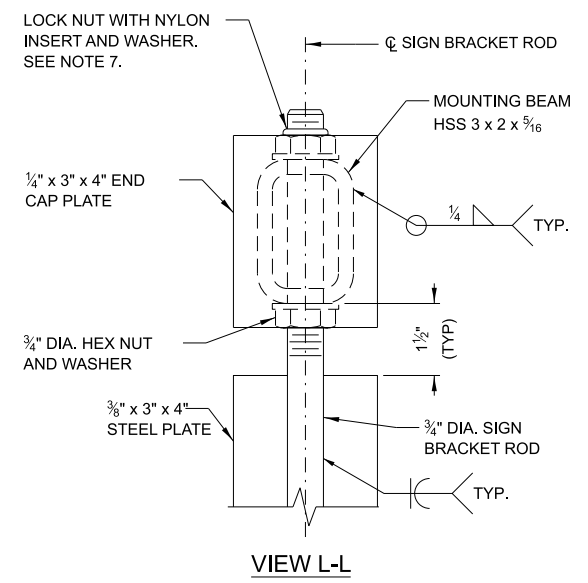
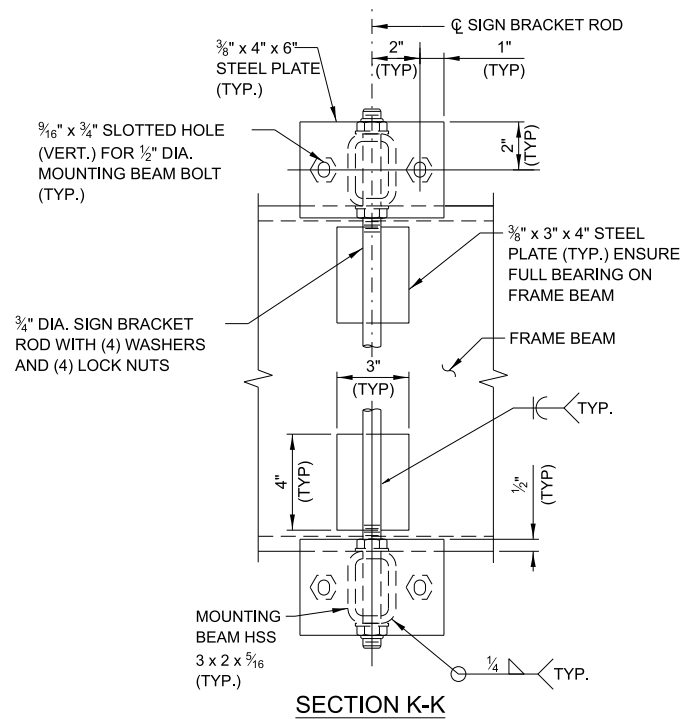


**OVERHEAD SIGN STRUCTURE
ITS GANTRY FRAME (STEEL)
TWO-SPAN STRUCTURE
DETAILS**

VERSION: 2026-03	BASE SHEET: M-OHS-730	SHEET: 5 OF 10
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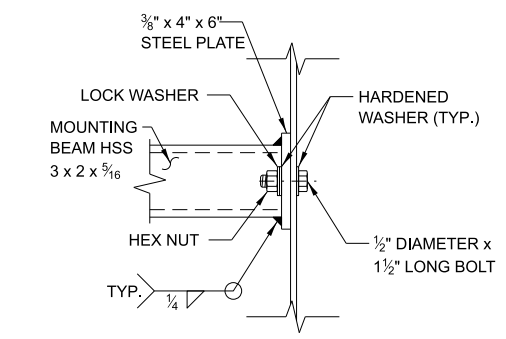
CONNECTION SIDE VIEW



VERTICAL SUPPORT TABLE		
W6x15		
SIGN WIDTH		NUMBER OF VERTICAL SUPPORTS 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

NOTES:

- 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.
- 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.

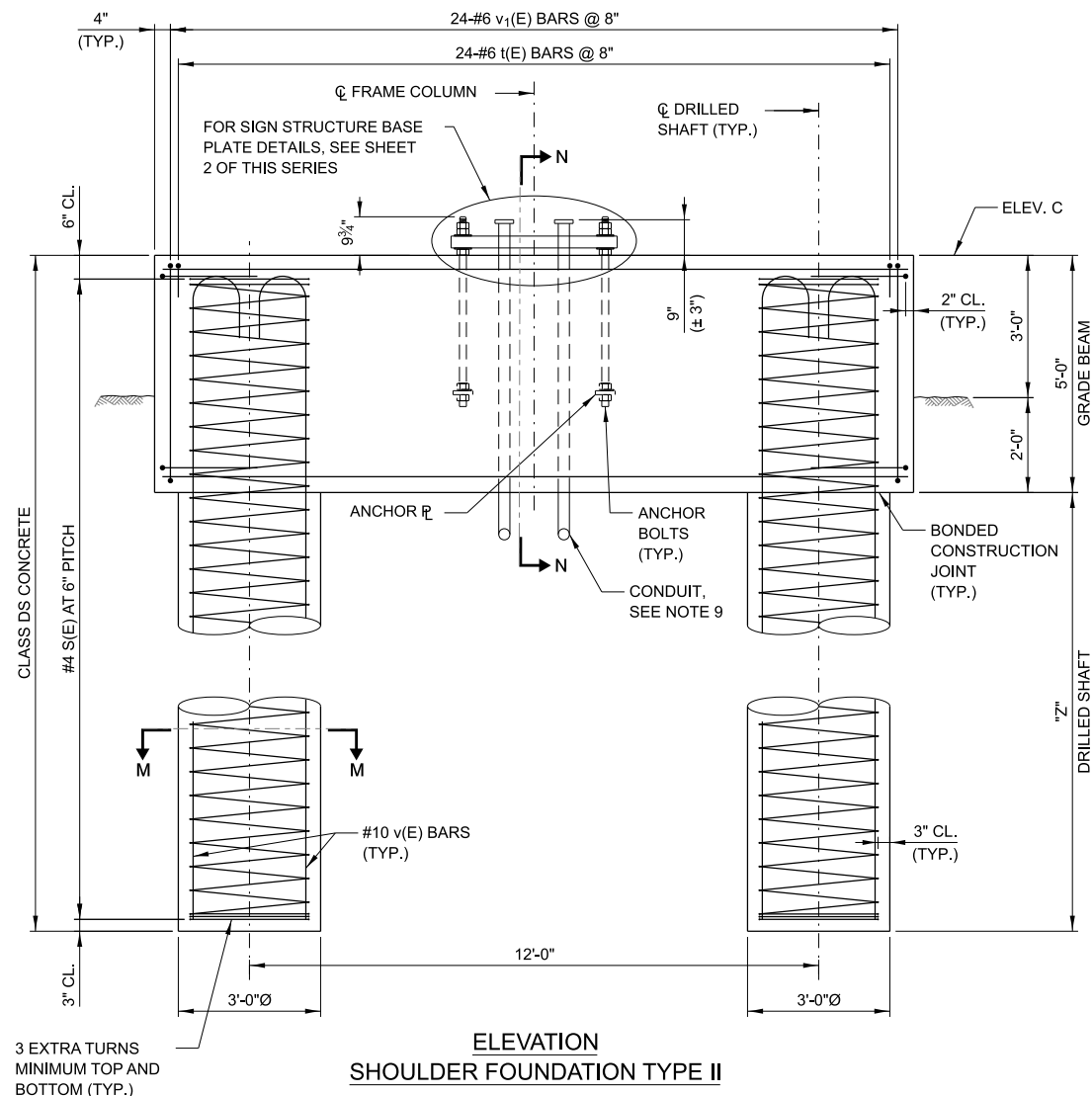


NOTE TO DESIGNER

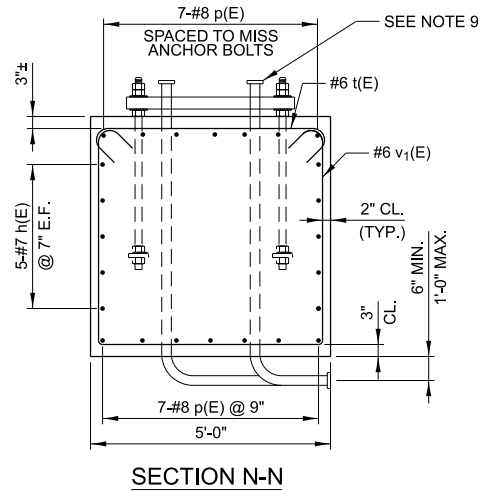
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**OVERHEAD SIGN STRUCTURE
ITS GANTRY FRAME (STEEL)
TWO-SPAN STRUCTURE
DETAILS**

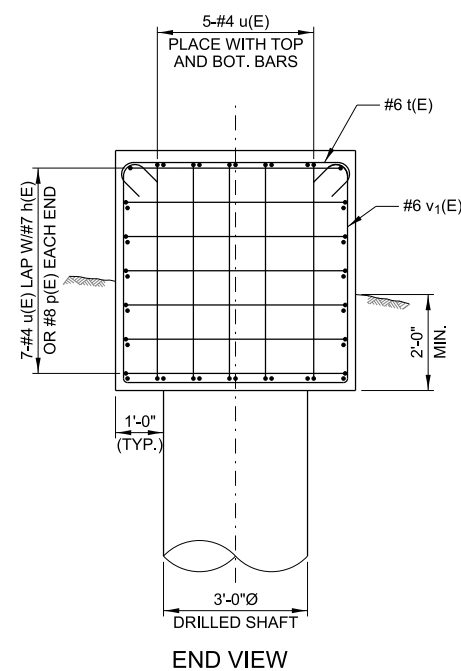
VERSION: 2026-03 BASE SHEET: M-OHS-730 SHEET: 6 OF 10



ELEVATION
SHOULDER FOUNDATION TYPE II



SECTION N-N



END VIEW

NOTES:

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.
4. BACKFILL SHALL BE PLACED PER SECTION 502 OF THE IDOT STANDARD SPECIFICATION AND PRIOR TO ERECTION OF GANTRY FRAME.
5. 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".
6. 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 FRAME".
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.

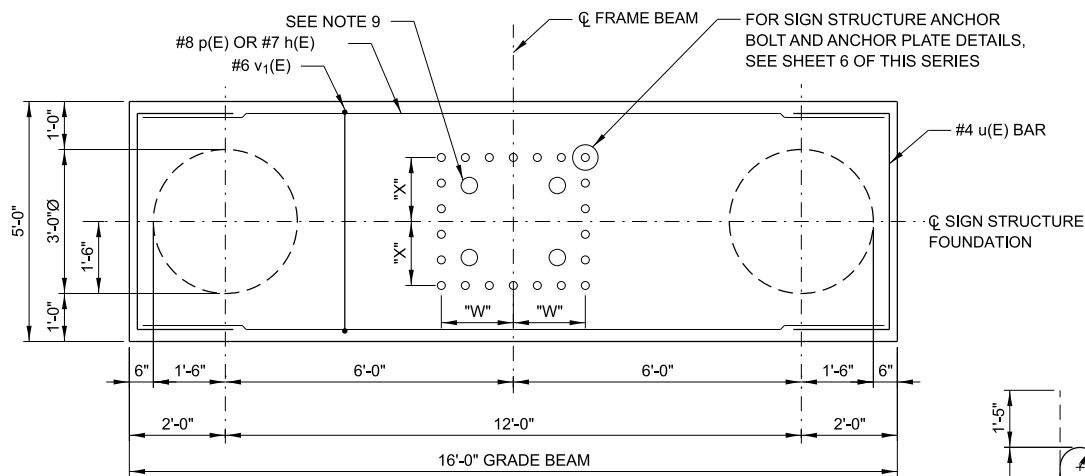
NOTE TO DESIGNER

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.

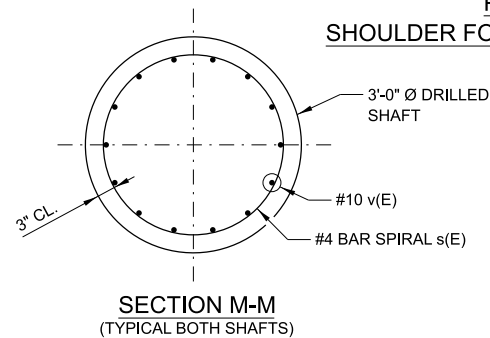
SHOULDER FOUNDATION TYPE II SCHEDULE					
MAX. SPAN "S1" OR "S2"	"Z"	"W"	"X"	CLASS DS CONCRETE (CU YD)	REINF. BARS (LB)
<=110'	38'-0"	1'-5 1/2"	1'-4"	34.7	7,990
110'<"S"<=130'	42'-0"	1'-6"	1'-5 1/2"	36.8	8,570
130'<"S"<=150'	46'-0"	1'-6"	1'-6 3/4"	39.0	9,130

NOTE TO DESIGNER

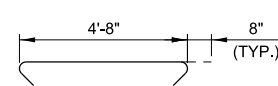
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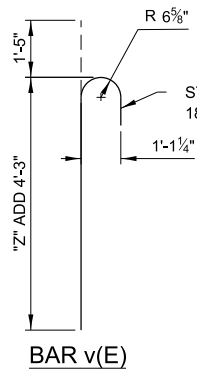
PLAN
SHOULDER FOUNDATION TYPE II



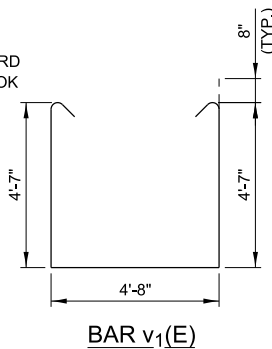
SECTION M-M
(TYPICAL BOTH SHAFTS)



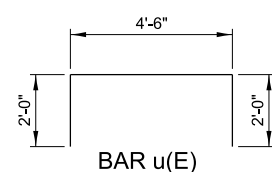
BAR t(E)



BAR v(E)



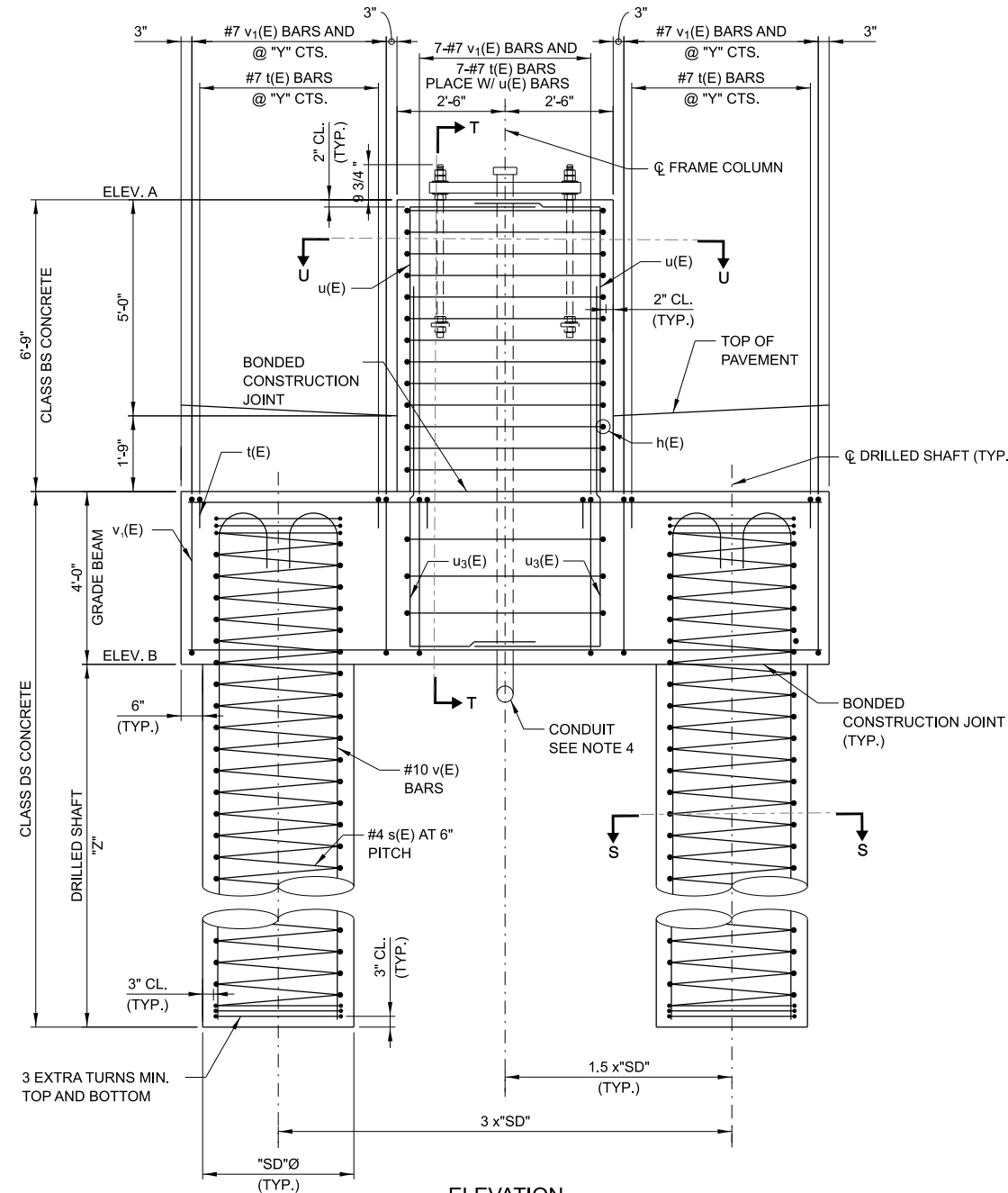
BAR v1(E)



BAR u(E)

REINFORCEMENT BAR SCHEDULE (2 DRILLED SHAFTS AND 1 GRADE BEAM)					
SPAN "S"	BAR	NO.	SIZE	LENGTH	SHAPE
"S"<=110'	h(E)	10	#7	15'-8"	—
	p(E)	14	#8	15'-8"	—
	t(E)	24	#6	6'-0"	—
	s(E)	2	#4	42'-3"	MWW *
	v(E)	28	#10	43'-8"	—
	v1(E)	24	#6	15'-2"	—
110'<"S"<=130'	h(E)	10	#7	15'-8"	—
	p(E)	14	#8	15'-8"	—
	t(E)	24	#6	6'-0"	—
	s(E)	2	#4	46'-3"	MWW *
	v(E)	28	#10	47'-8"	—
	v1(E)	24	#6	15'-2"	—
130'<"S"<=150'	h(E)	10	#7	15'-8"	—
	p(E)	14	#8	15'-8"	—
	t(E)	24	#6	6'-0"	—
	s(E)	2	#4	50'-3"	MWW *
	v(E)	28	#10	51'-8"	—
	v1(E)	24	#6	15'-2"	—
u(E)	24	#4	8'-6"	—	

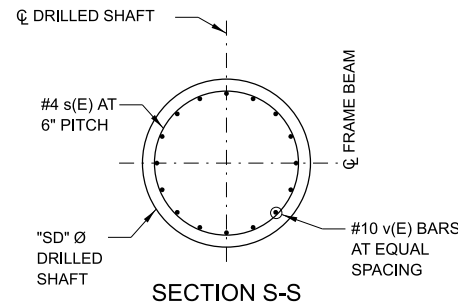
* THE LENGTH OF SPIRAL SHOWN IS THE HEIGHT OF SPIRAL.



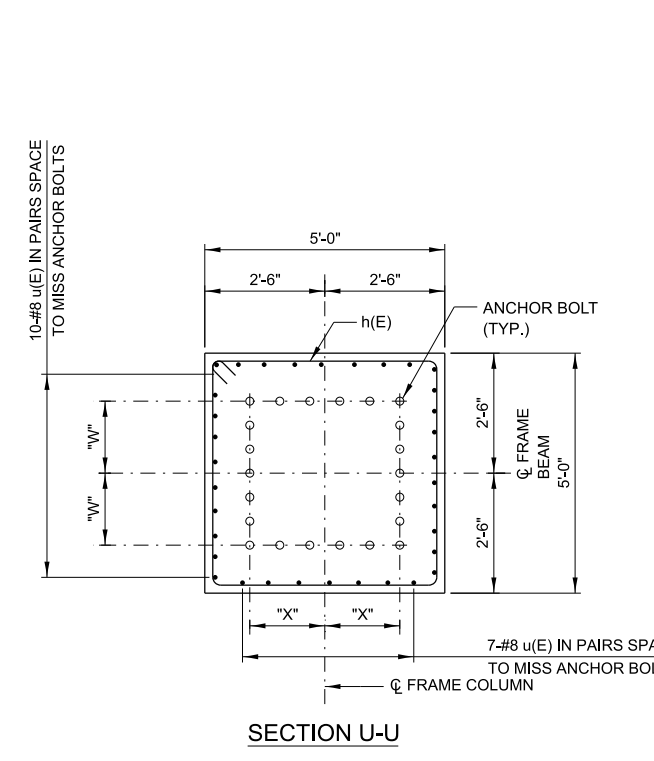
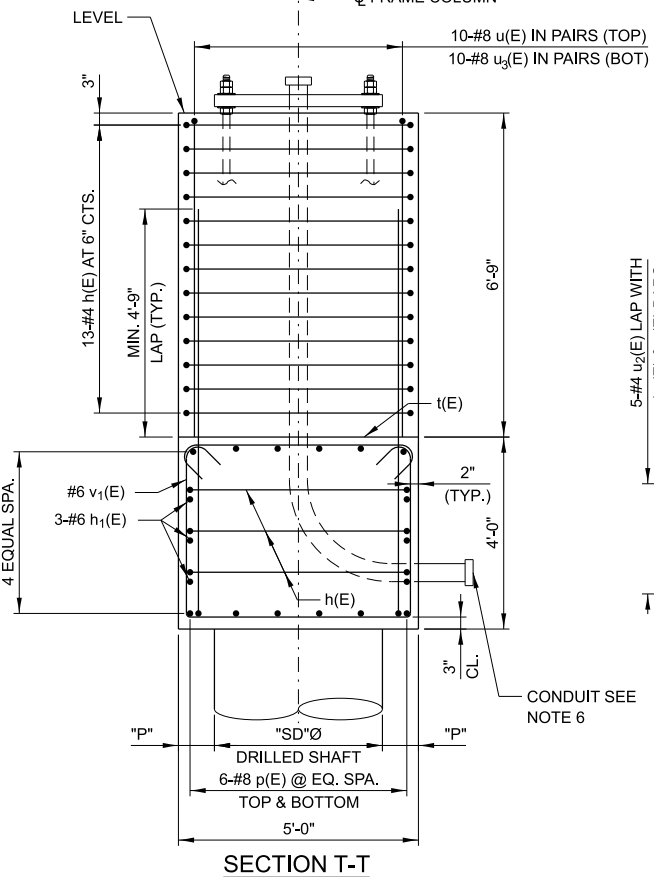
ELEVATION
MEDIAN FOUNDATION

REINFORCEMENT BAR SCHEDULE FOR ONE FOUNDATION					
MAX. SPAN "S ₁ " OR "S ₂ "	BAR	NO.	SIZE	LENGTH	SHAPE
"S" <= 110'	h ₁ (E)	6	#6	12'-8"	—
	p(E)	12	#8	12'-8"	—
	t(E)	23	#7	6'-2"	↙
	s(E)	2	#4	33'-3"	
	v(E)	28	#10	34'-8"	⌋
110' < "S" <= 130'	v ₁ (E)	23	#7	13'-4"	⌋
	h ₁ (E)	6	#6	14'-8"	—
	p(E)	12	#8	14'-8"	—
	t(E)	27	#7	6'-2"	↙
	s(E)	2	#4	31'-3"	
130' < "S" <= 150'	v(E)	32	#10	32'-8"	⌋
	v ₁ (E)	27	#7	13'-4"	⌋
	h ₁ (E)	6	#6	14'-8"	—
	p(E)	12	#8	14'-8"	—
	t(E)	31	#7	6'-2"	↙

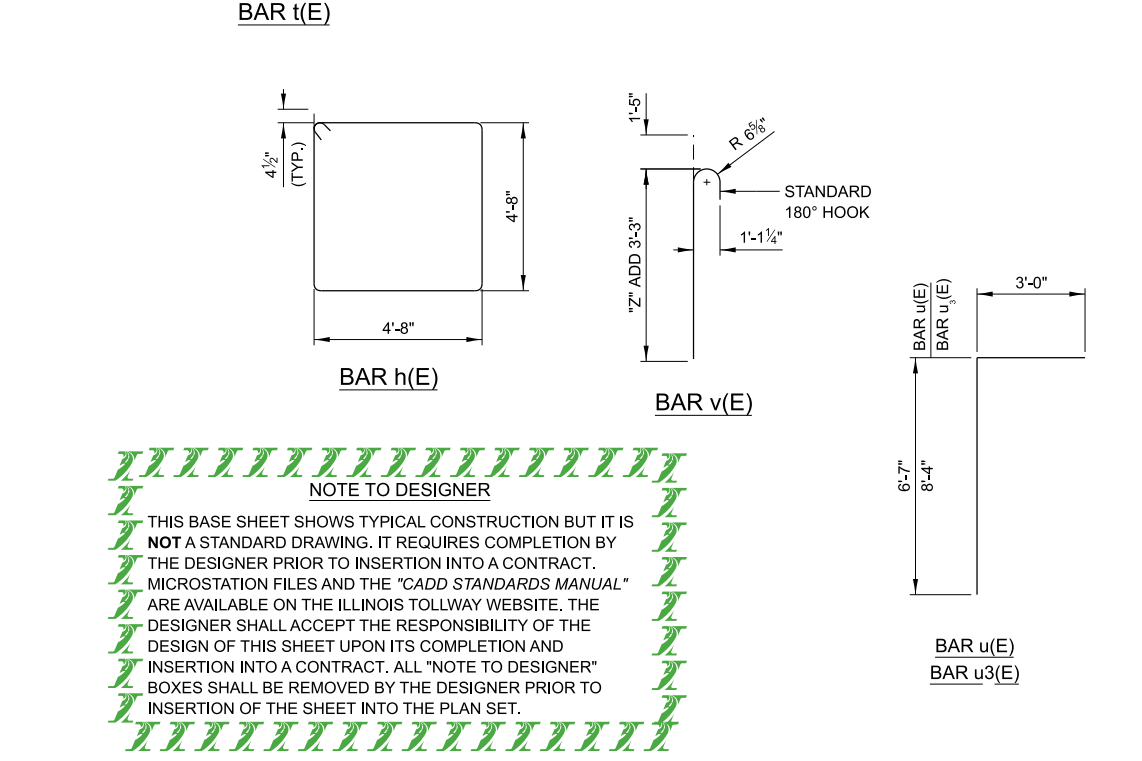
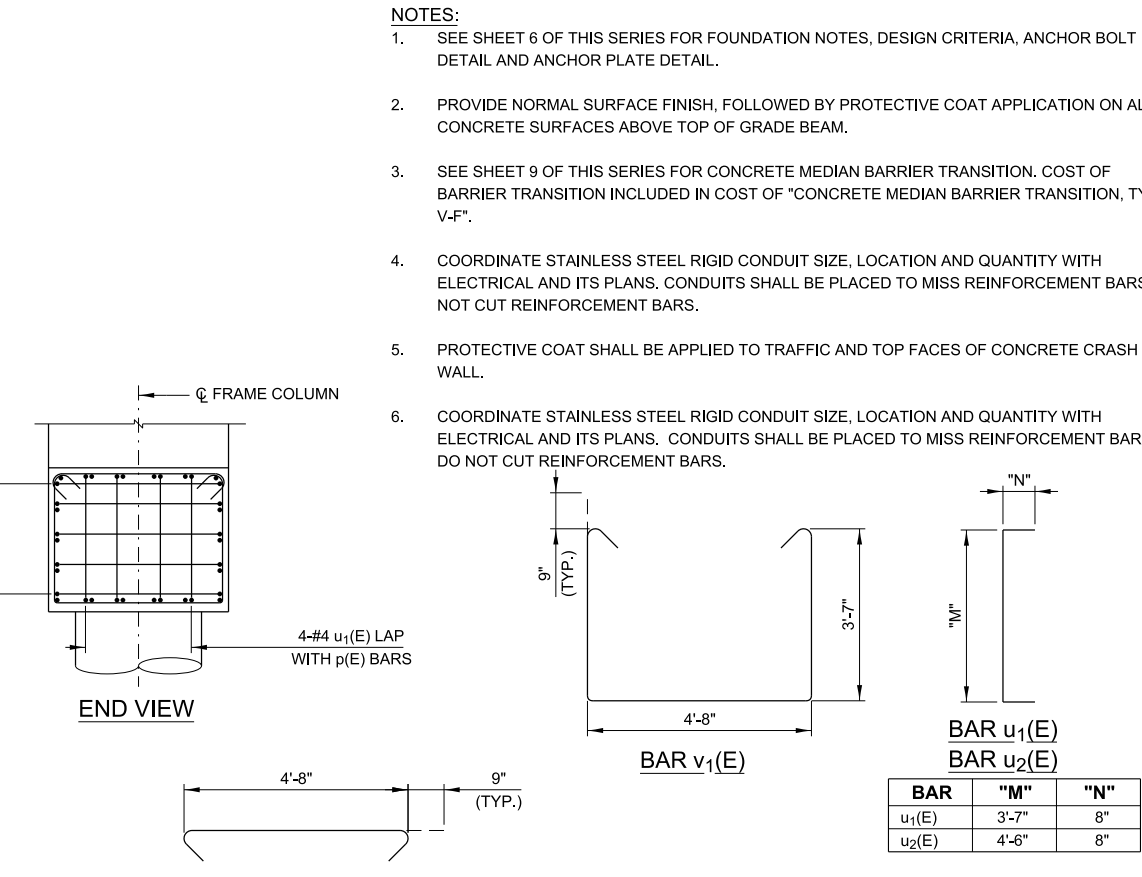
* THE LENGTH OF SPIRAL SHOWN IS THE HEIGHT OF SPIRAL.



REINFORCEMENT BAR SCHEDULE FOR ONE FOUNDATION				
BAR	NO.	SIZE	LENGTH	SHAPE
h(E)	16	#4	19'-5"	⌋
u(E)	34	#8	9'-7"	⌋
u ₁ (E)	8	#4	4'-11"	⌋
u ₂ (E)	10	#4	5'-10"	⌋
u ₃ (E)	34	#8	11'-4"	⌋



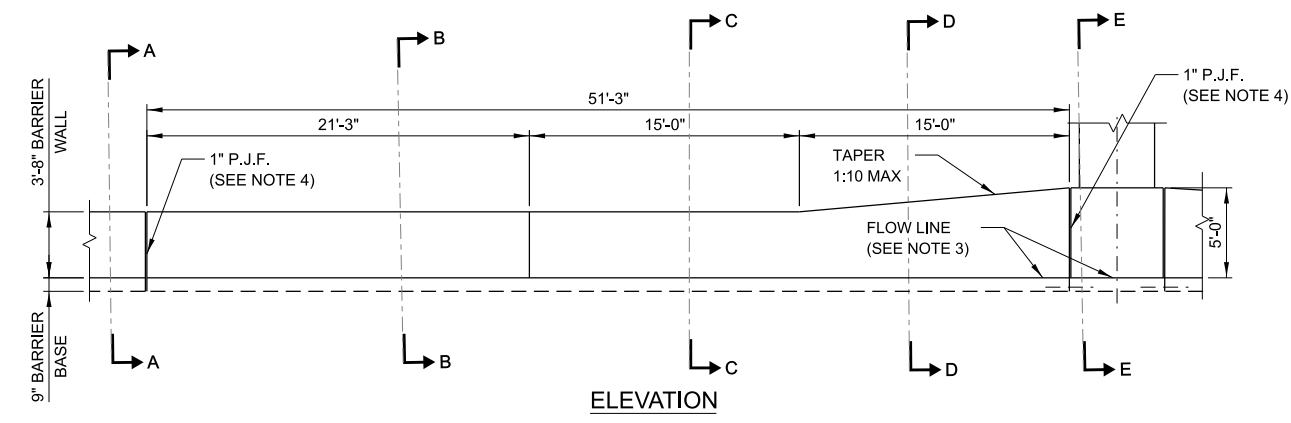
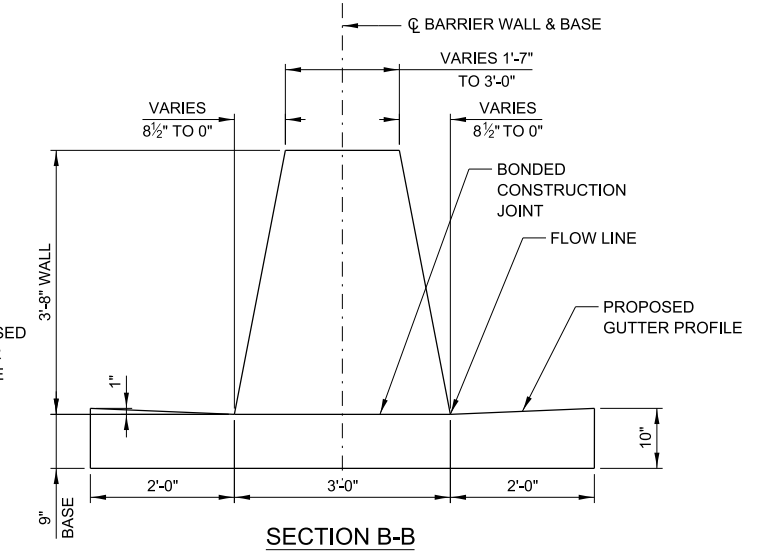
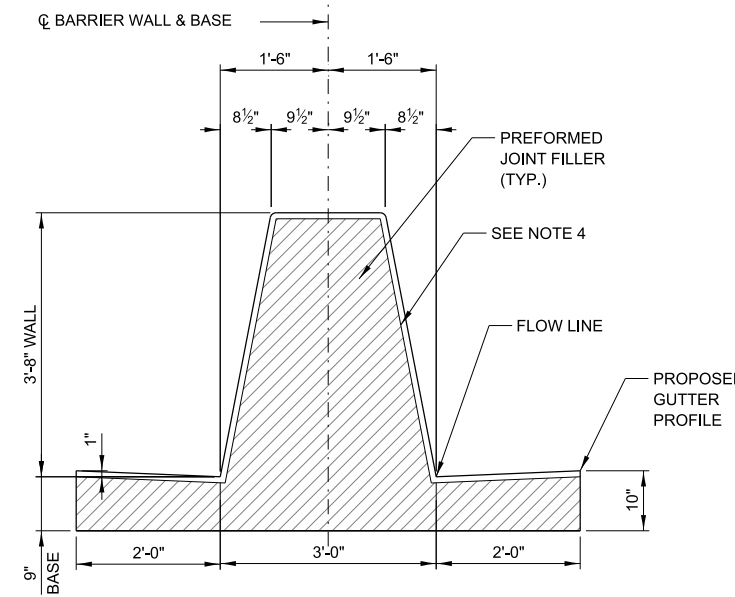
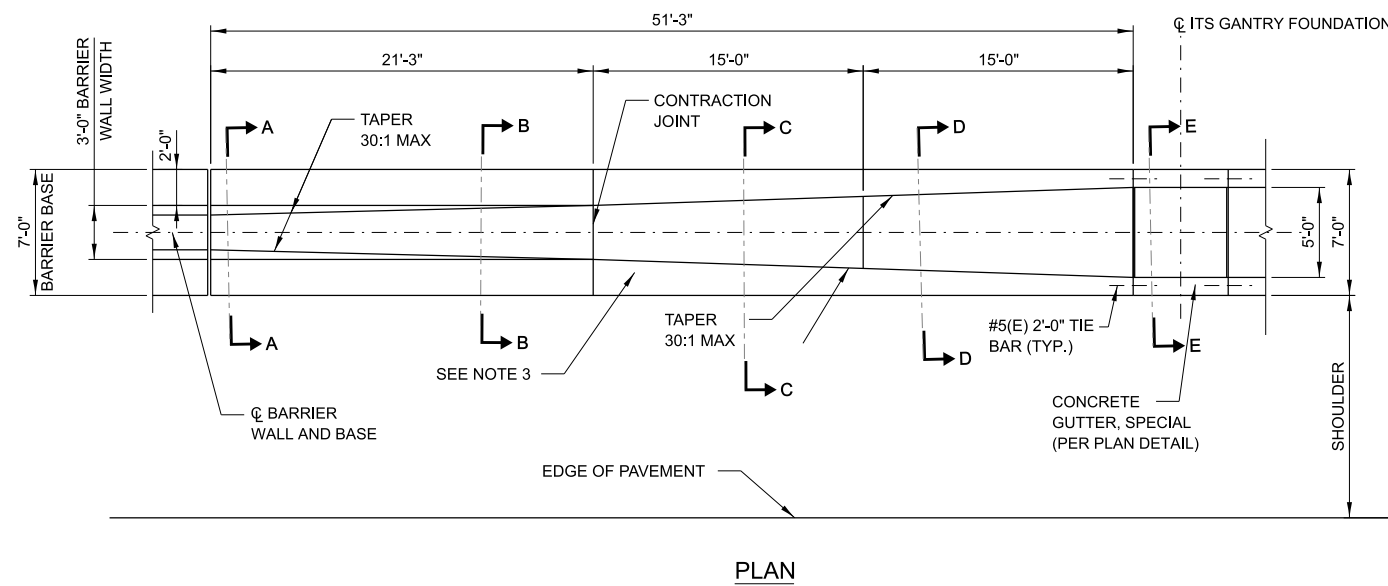
MEDIAN FOUNDATION SCHEDULE				
MAX. SPAN "S ₁ " OR "S ₂ "	CLASS BS CONCRETE (CU YD)	CLASS DS CONCRETE (CU YD)	REINF. BARS (LB)	PROTECTIVE COAT (SQ YD)
<= 110'	6.3	25.3	8,540	8.3
110' < "S" <= 130'	6.3	31.1	9,220	8.3
130' < "S" <= 150'	6.3	31.1	9,650	8.3



MEDIAN FOUNDATION TABLE							
MAX. SPAN "S ₁ " OR "S ₂ "	"Z"	"SD"	"P"	"W"	"X"	"Y"	NO. ANCHOR BOLT
<= 110'	30'-0"	3'-0"	1'-0"	1'-5 1/2"	1'-4"	6"	18
110' < "S" <= 130'	28'-0"	3'-6"	9"	1'-6"	1'-5 1/2"	6"	22
130' < "S" <= 150'	28'-0"	3'-6"	9"	1'-6"	1'-6 3/4"	5"	22

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

VERSION: 2026-03 BASE SHEET: M-OHS-730 SHEET: 9 OF 10

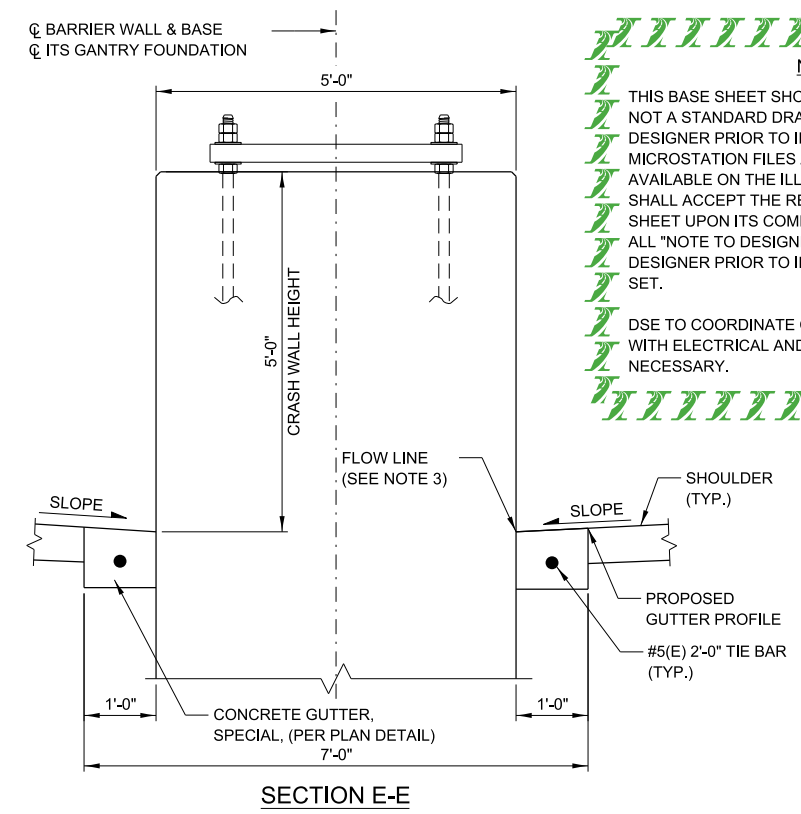
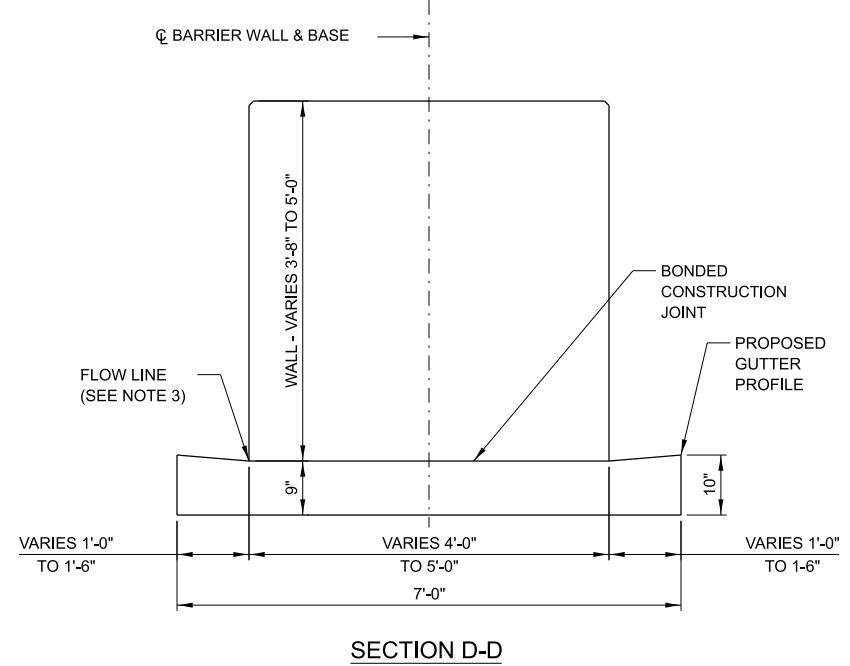
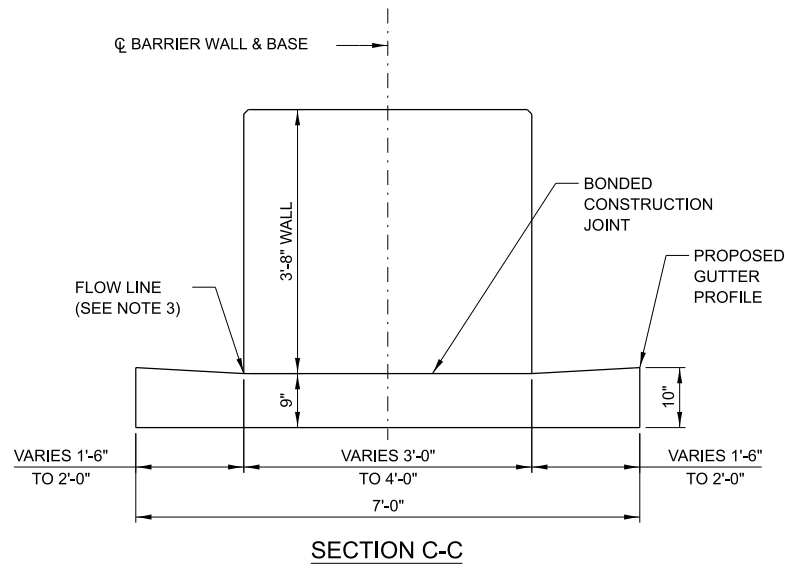


NOTES TO DESIGNER

- WITHIN SECTION B-B, THE GUTTER PORTION OF THE BARRIER BASE REMAINS 2'-0"; HERETOFORE, STANDARD TYPE 20A F&G SHALL BE USED.
- WITHIN SECTION C-C & D-D, THE GUTTER PORTION OF THE BARRIER BASE IS LESS THAN 2'-0"; THEREFORE, NON-ILLINOIS TOLLWAY STD. F&G SHALL BE USED.
- WITHIN SECTION B-B & C-C, THE BARRIER HEIGHT REMAINS 44"; THIS ALLOWS THE PLACEMENT OF LIGHT POLE FOUNDATIONS WITHIN THIS AREA.
- WITHIN SECTION D-D, THE BARRIER HEIGHT IS INCREASING FROM 44" TO 60"; THE LIGHT POLE FOUNDATIONS SHALL NOT BE PLACED WITHIN THIS AREA.

- NOTES:**
- 2" DEEP CONTRACTION JOINTS SHALL BE CONSTRUCTED IN THE CONCRETE BARRIER WALL AND IN THE CONCRETE BARRIER BASE. CONTRACTION JOINTS SHALL ALSO BE CONSTRUCTED AT BOTH SIDES OF ALL DRAINAGE STRUCTURES. MAXIMUM JOINT SPACING SHALL BE 30'.
 - THE FORMING OF CONTRACTION JOINTS SHALL BE DONE BY SAWING.
 - GUTTER PROFILE IN THE VICINITY OF SAG VERTICAL CURVES, ALONG FLAT GRADES AND AT THE MEETING OF PROPOSED AND EXISTING GUTTER, SHALL BE CAREFULLY CONTROLLED AND FIELD ADJUSTED IF NECESSARY TO ENSURE POSITIVE DRAINAGE AND AVOID PONDING.
 - PROVIDE NON-STAINING GRAY ONE COMPONENT NON-SAG ELASTOMERIC GUN GRADE POLYURETHANE SEALANT WITH BACKER ROD.

CONCRETE MEDIAN BARRIER TRANSITION, TYPE V-DF AT ITS GANTRY



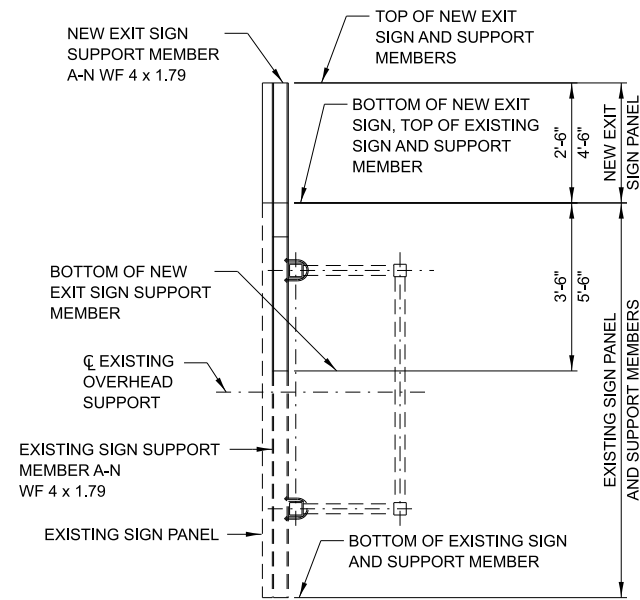
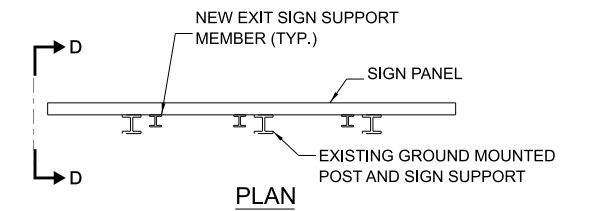
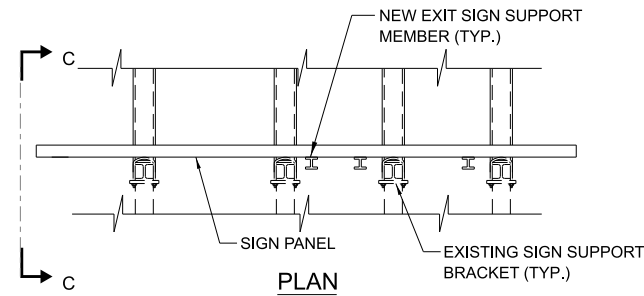
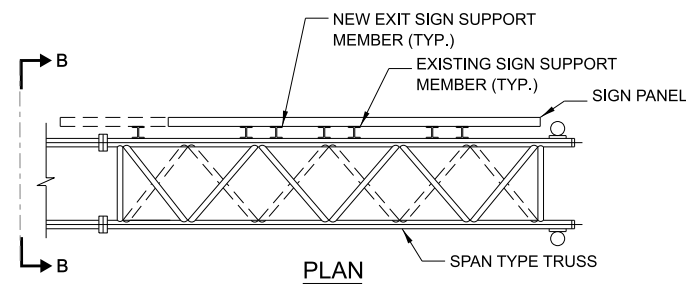
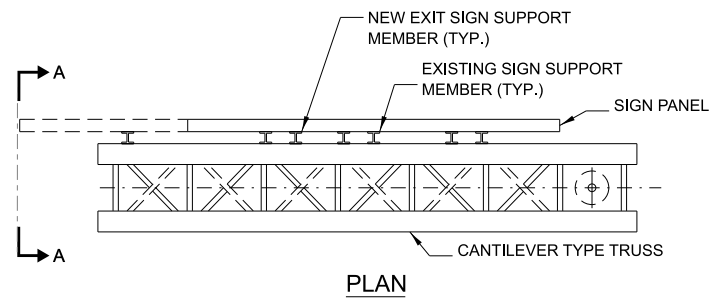
NOTE TO DESIGNER

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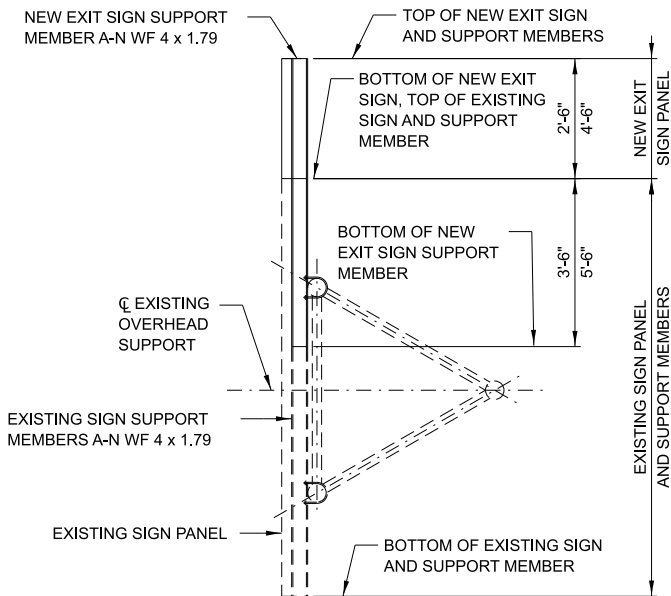
DSE TO COORDINATE CONDUIT SIZE, LOCATION AND QUANTITY WITH ELECTRICAL AND ITS PLANS. MODIFY DRAWING AS NECESSARY.

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

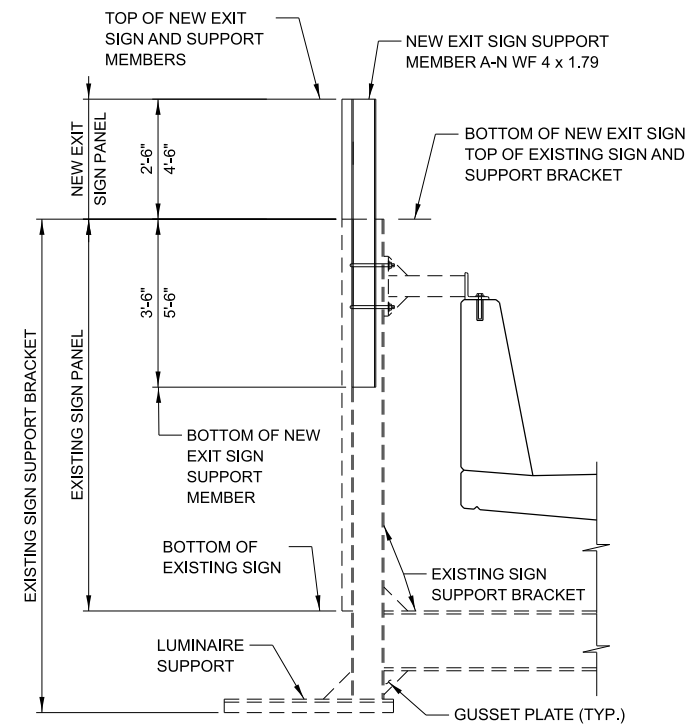
VERSION: 2026-03 BASE SHEET: M-OHS-730 SHEET: 10 OF 10



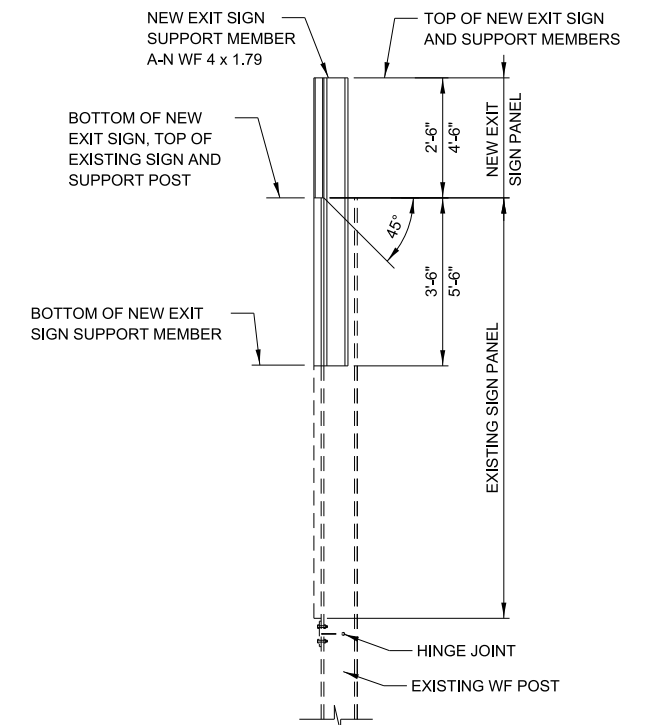
SECTION A-A
OVERHEAD CANTILEVER TYPE SIGN SUPPORT



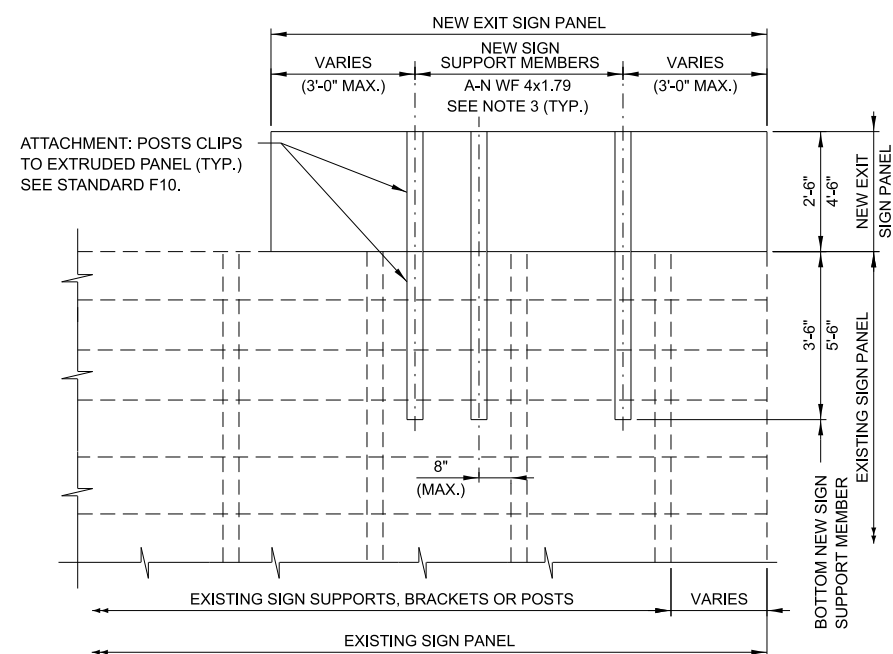
SECTION B-B
OVERHEAD SPAN TYPE SIGN SUPPORT



SECTION C-C
BRIDGE MOUNTED SIGN SUPPORT



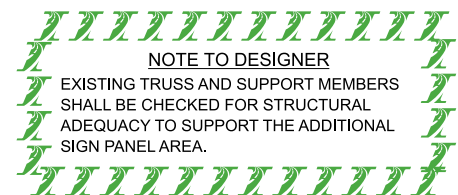
SECTION D-D
GROUND MOUNTED SIGN SUPPORT



PARTIAL REAR ELEVATION OF SIGN PANELS AND SUPPORT MEMBERS

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".
- 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.

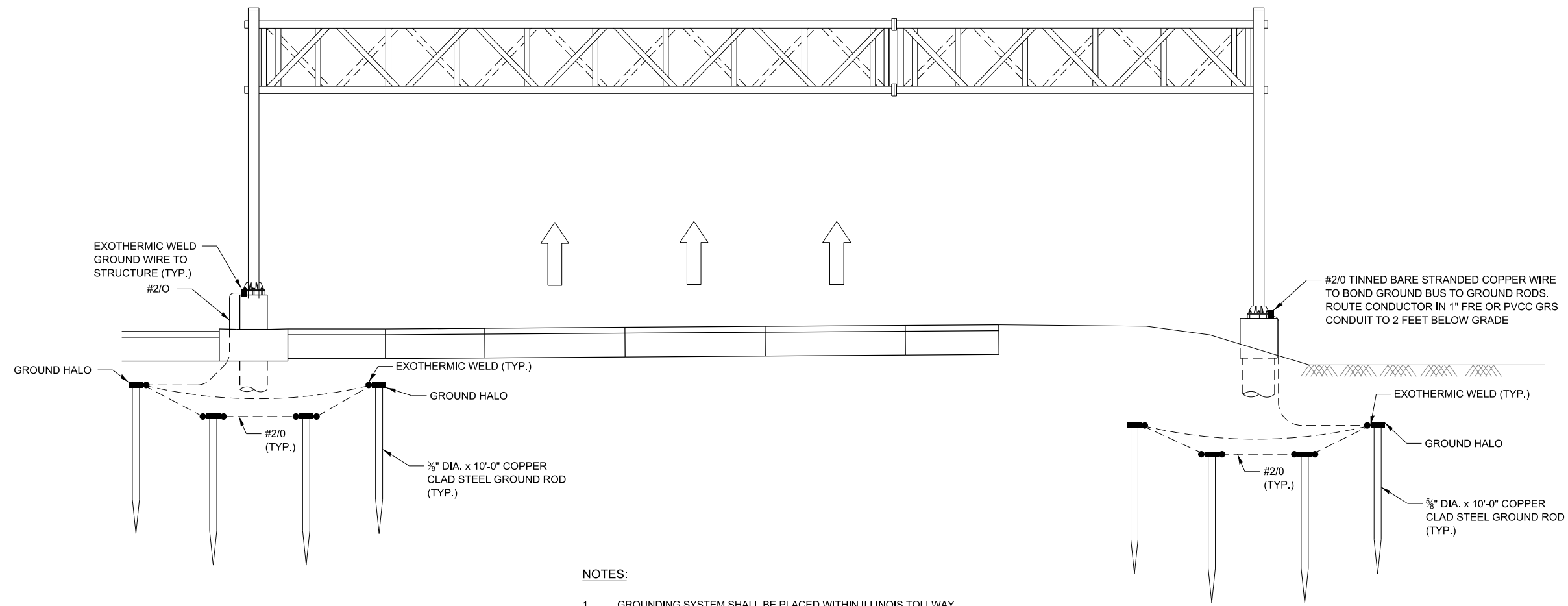


NOTE TO DESIGNER

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

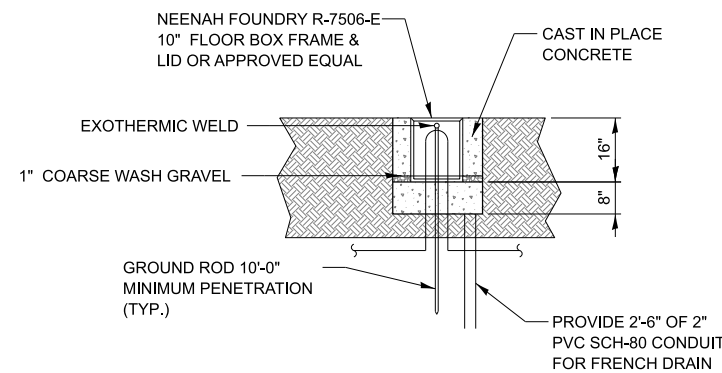


MOUNTING DETAILS FOR
RETROFITTING NEW EXIT
SIGN PANELS

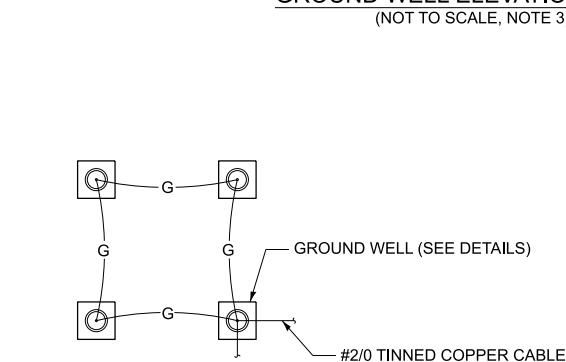


NOTES:

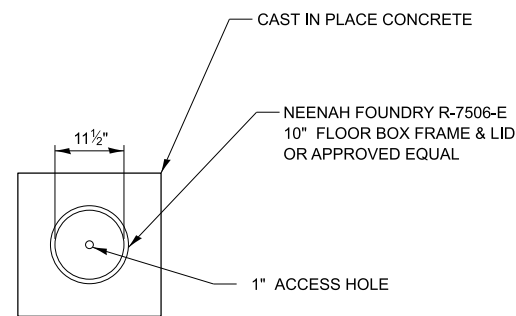
1. GROUNDING SYSTEM SHALL BE PLACED WITHIN ILLINOIS TOLLWAY RIGHT-OF-WAY.
2. INSTALL MARKER TAPE DIRECTLY ABOVE GROUNDING ELECTRODE CONDUCTORS.
3. THE COST OF ALL MATERIALS, EXOTHERMIC WELDING, GROUND WELL, GROUND RODS AND ALL OTHER ITEMS TO COMPLETE THE GROUNDING ELECTRODE SYSTEM SHALL BE INCLUDED IN 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.



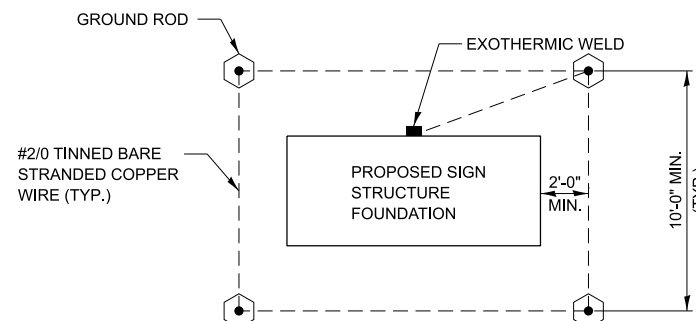
GROUND WELL ELEVATION DETAIL
(NOT TO SCALE, NOTE 3)



GROUND HALO DETAIL
(NOT TO SCALE)



GROUND WELL PLAN DETAIL
(NOT TO SCALE, NOTE 3)



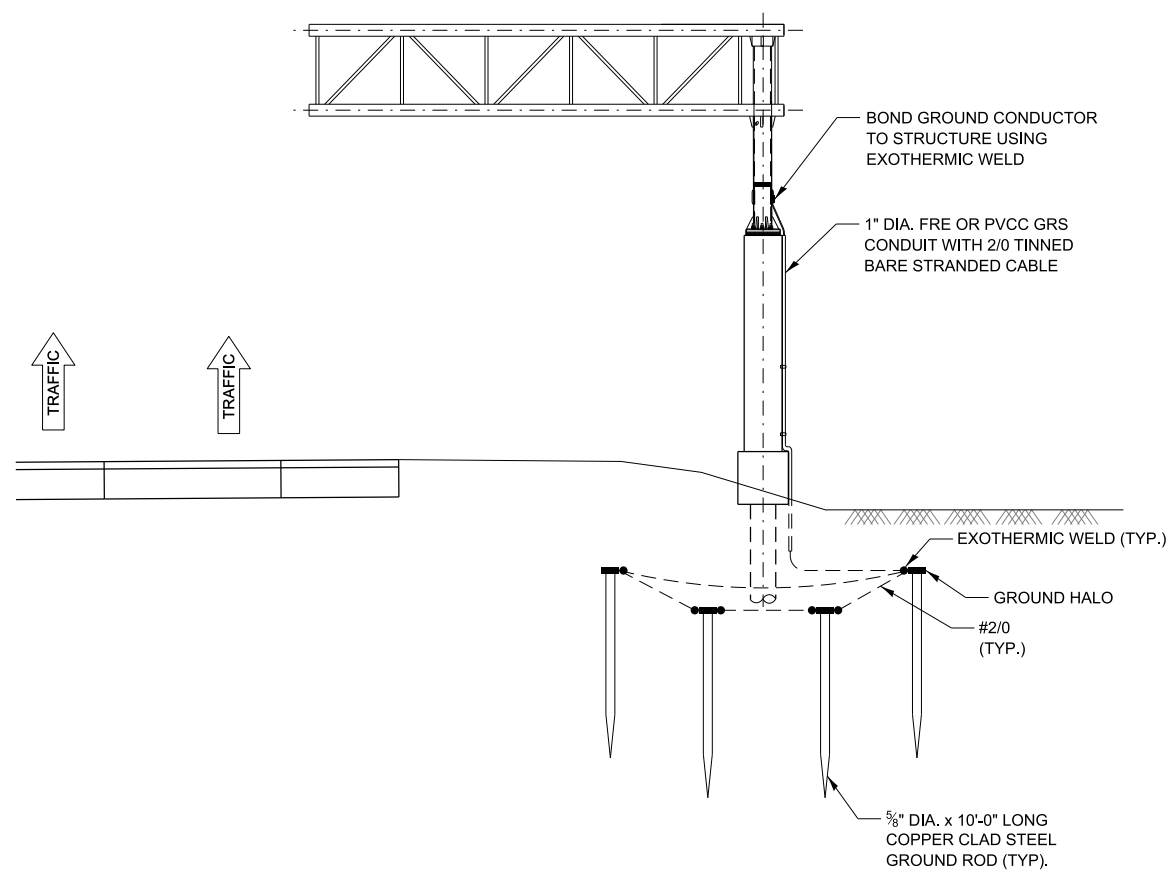
GROUNDING SCHEMATIC
(NOT TO SCALE)

NOTE TO DESIGNER

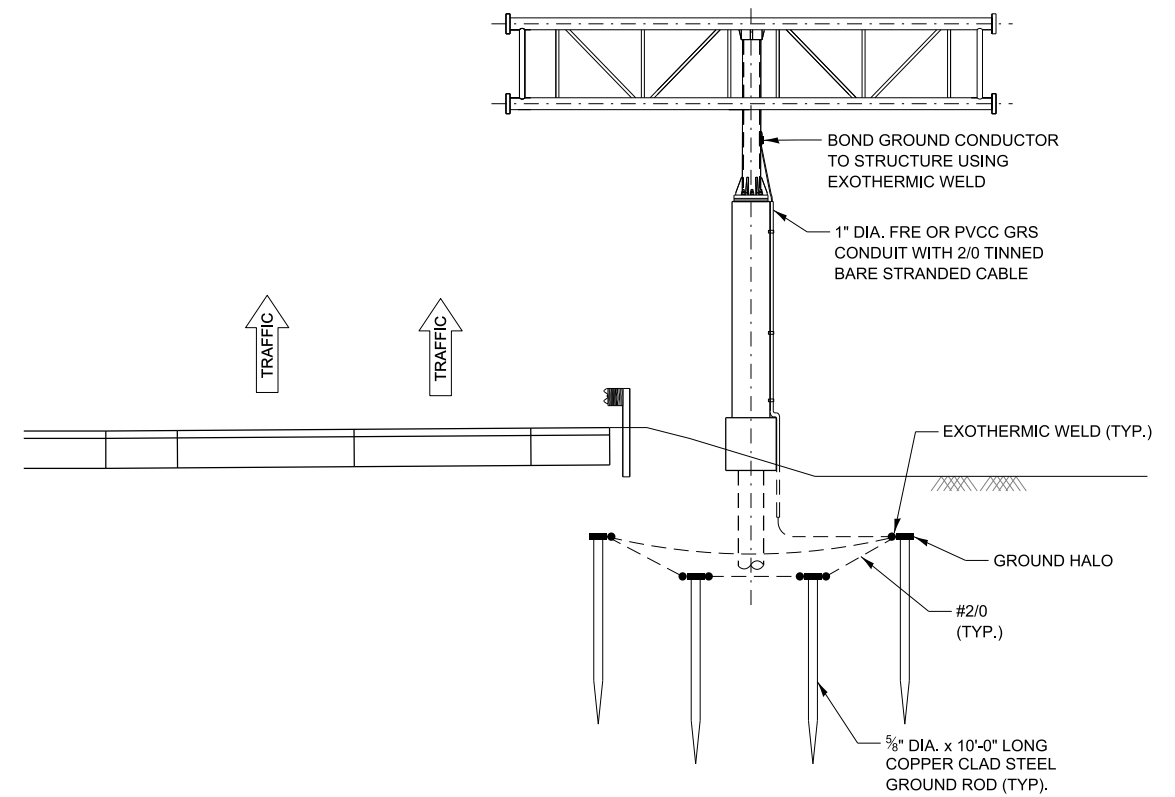
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SIGN STRUCTURE SPAN SITE GROUNDING PLAN



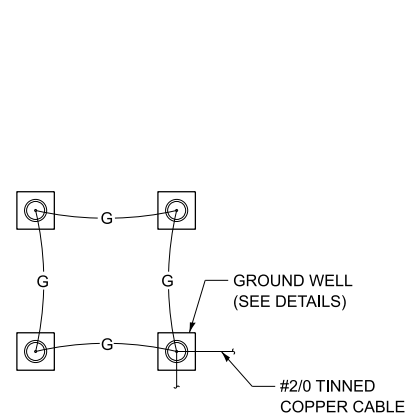
CANTILEVER ELEVATION



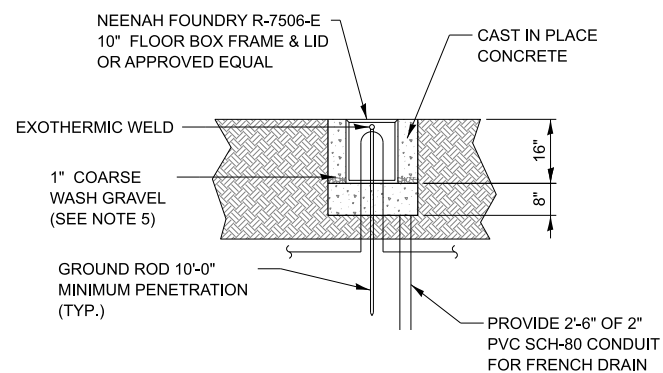
BUTTERFLY ELEVATION

NOTES:

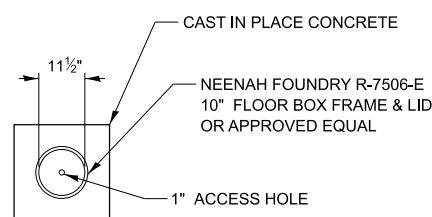
1. GROUNDING SYSTEM SHALL BE PLACED WITHIN ILLINOIS TOLLWAY RIGHT-OF-WAY.
2. INSTALL MARKER TAPE DIRECTLY ABOVE GROUNDING ELECTRODE CONDUCTORS.
3. THE COST OF ALL MATERIALS, EXOTHERMIC WELDING, GROUND WELL, GROUND RODS AND ALL OTHER ITEMS TO COMPLETE THE GROUNDING ELECTRODE SYSTEM SHALL BE INCLUDED IN 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.



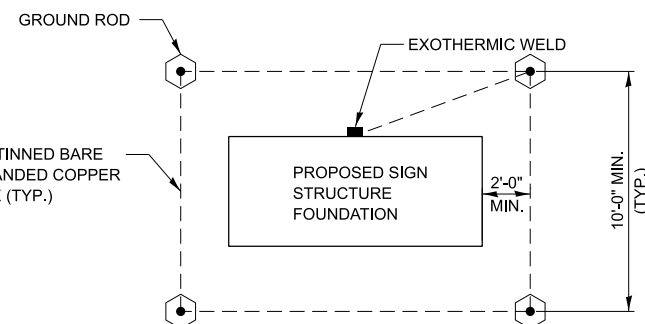
GROUND HALO DETAIL
(NOT TO SCALE)



GROUND WELL ELEVATION DETAIL
(NOT TO SCALE, NOTE 3)



GROUND WELL PLAN DETAIL
(NOT TO SCALE, NOTE 3)



GROUNDING SCHEMATIC
(NOT TO SCALE)

NOTE TO DESIGNER

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SIGN STRUCTURE
CANTILEVER AND BUTTERFLY
SITE GROUNDING PLANS

