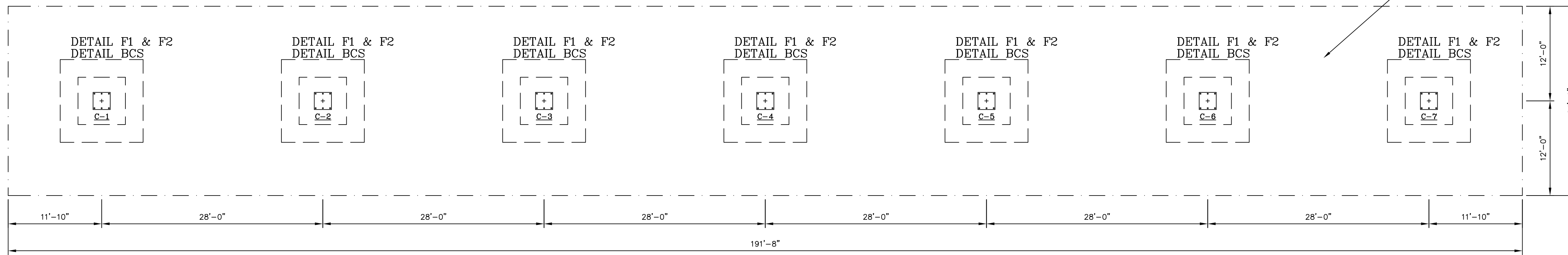


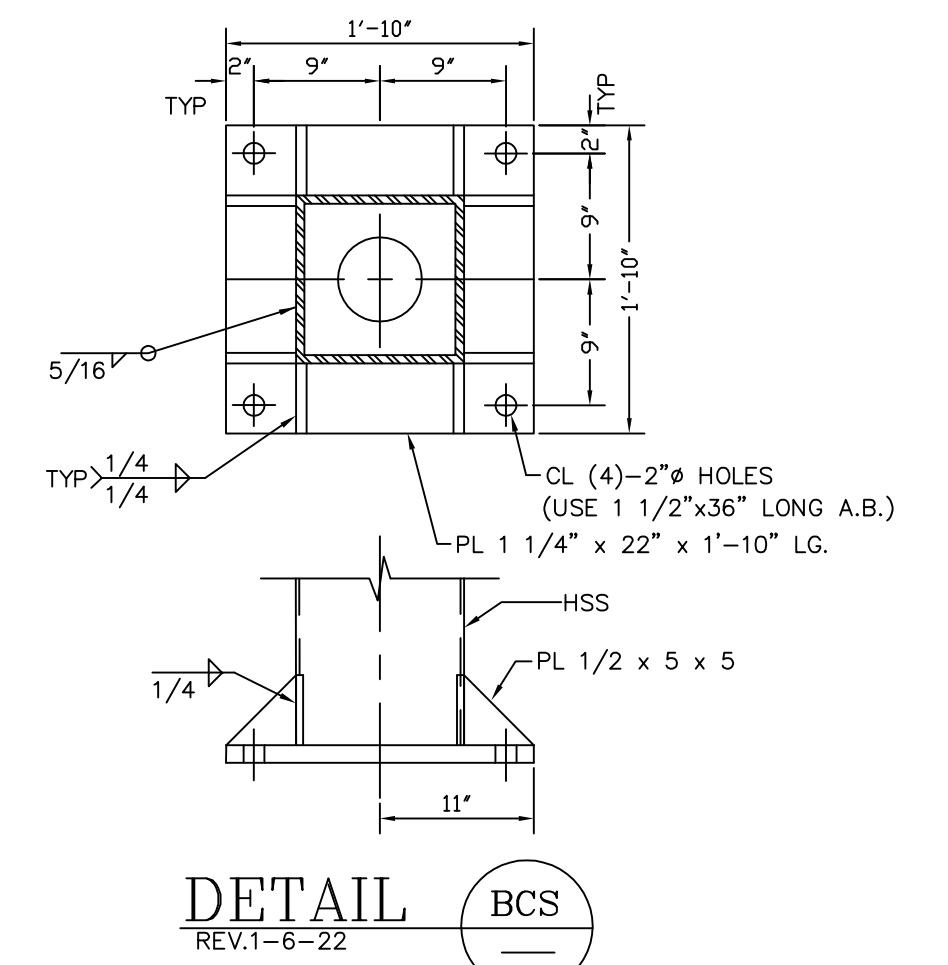
KENNEBEC CHURCH RD

BLDG

FINAL SLAB DESIGN BY OTHERS.



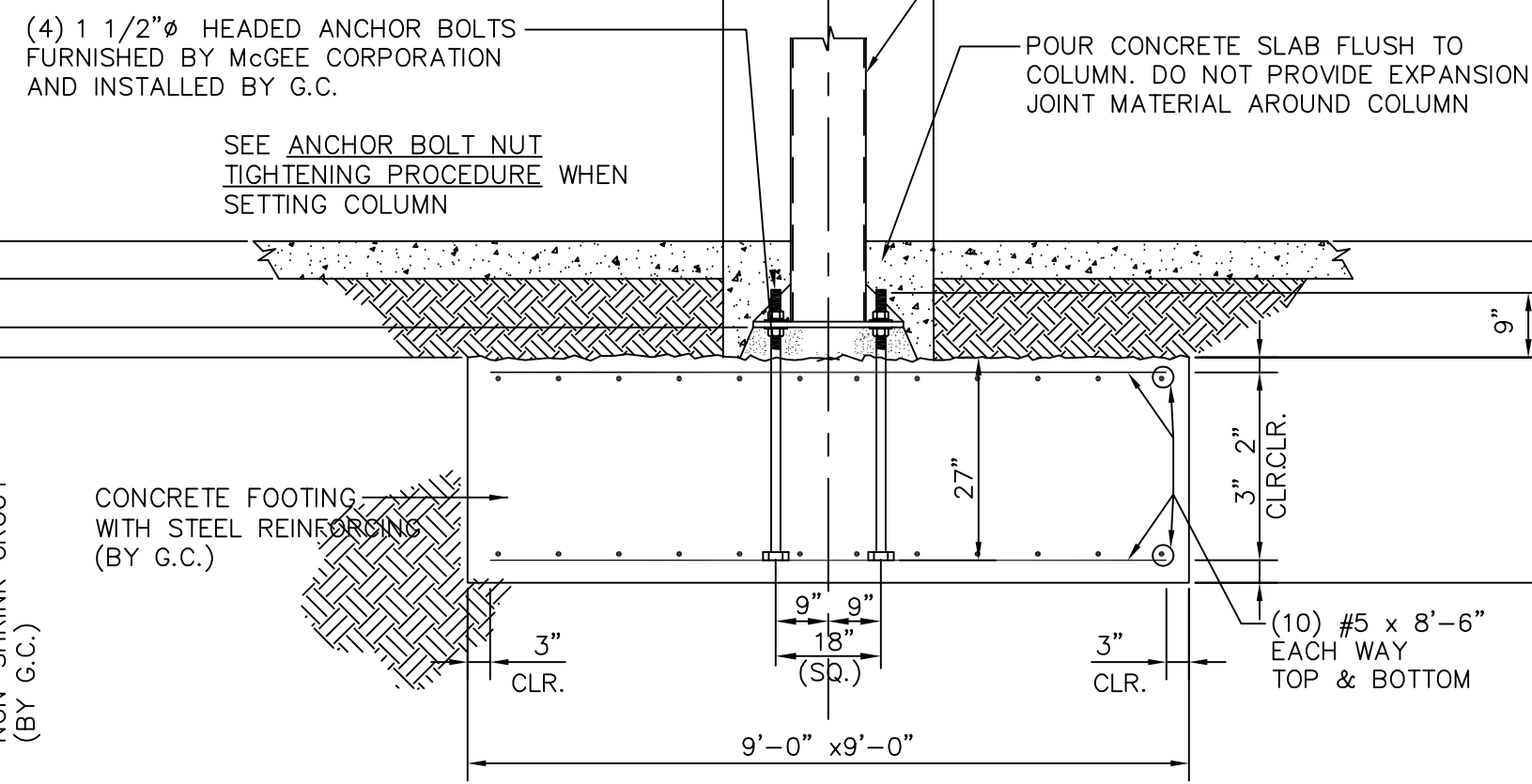
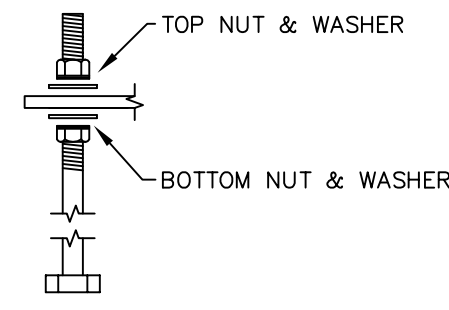
FOUNDATION PLAN
NC-55 S



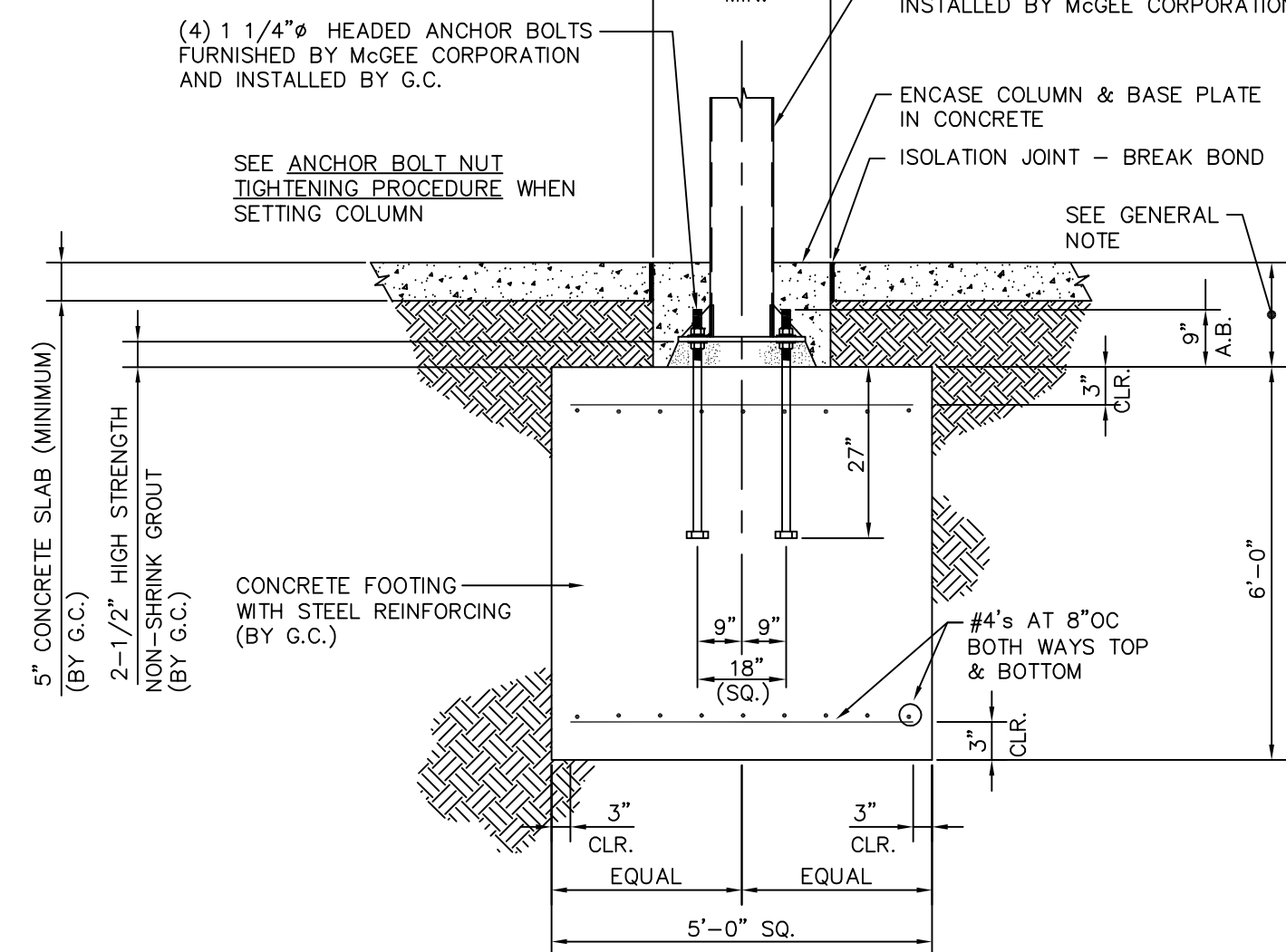
DETAIL BCS
REV.1-6-22

ANCHOR BOLT NUT TIGHTENING PROCEDURE:

SET AND PLUMB THE COLUMN, PER AISC ERECTION PROVISIONS, WITH DOUBLE NUTS ON THE REQUIRED NUMBER OF ANCHOR BOLTS. THE BOTTOM NUT SHALL HAVE A FLAT WASHER BETWEEN THE BOTTOM OF BASEPLATE AND THE TOP OF THE NUT. THE TOP NUT SHALL HAVE A WASHER BETWEEN THE TOP OF BASEPLATE AND THE BOTTOM OF THE NUT. AFTER THE COLUMN IS SET AND PLUMB, TIGHTEN THE TOP NUT TO A SNUG TIGHT CONDITION WITH TOP OF THE BASEPLATE (FULL EFFORT OF A MAN ON A WRENCH).



DETAIL F2
REV. 09/10/02



DETAIL F1
REV. 01/22/03

GENERAL NOTES

- CANOPY FOUNDATION INSTALLATION CONTRACTOR SHALL DETERMINE WHICH FINISHED GRADE ELEVATION AT EACH CANOPY COLUMN IS THE LOWEST AND ESTABLISH ALL FOUNDATION LOCATIONS IN RELATION TO THAT ELEVATION. CONTRACTOR MUST VERIFY FUEL CONTAINMENT BOX SIZE AND LOCATION TO ENSURE FOUNDATION DOES NOT INTERFERE WITH BOX INSTALLATION. TOP OF FOUNDATION DEPTH MAY BE GREATER THAN BUT NOT LESS THAN 12" BELOW THE PREVIOUSLY DETERMINED LOWEST FINISHED GRADE ELEVATION.
- ALLOWABLE SOIL BEARING CAPACITY OF 2500 PSF PROVIDED BY THE OWNER PER THE GEOTECHNICAL REPORT BY SUMMIT DATED FEBRUARY 21, 2022, SUMMIT PROJECT NO B382.G0073.
- FOUNDATIONS (WHERE SHOWN) HAVE BEEN SIZED FOR GIVEN LOADS AND ALLOWABLE SOIL PRESSURE. THEIR DESIGN ASSUMES THAT THERE ARE NO BURIED TANKS OR OTHER NEARBY OBSTRUCTIONS THAT WOULD BE DETRIMENTAL TO THEIR PROPER FUNCTION. THE ENGINEER OF RECORD SHALL BE NOTIFIED PRIOR TO CONSTRUCTION OF FOUNDATIONS FOR THE RESOLUTION OF ANY CONFLICT. WHERE A FOUNDATION DETAIL IS NOT SHOWN, MCGEE CORPORATION AND THEIR ENGINEERS TAKE NO RESPONSIBILITY FOR THE FOUNDATION DESIGN.
- ASTM F1554 GRADE 36 ANCHOR BOLTS & WOOD TEMPLATES SHALL BE FURNISHED BY MCGEE CORP.
- ALL CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI): "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318-14) "SPECIFICATIONS FOR STRUCTURAL CONCRETE" (ACI 301-14) "HOT WEATHER CONCRETING" (ACI 305R) "COLD WEATHER CONCRETING" (ACI 306R, ACI 306.1)
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 3000 PSI AND A MINIMUM UNIT WEIGHT OF 145 PCF. REINFORCING STEEL SHALL BE NEW BILLET STEEL DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60.
- STRUCTURAL STEEL SHALL CONFORM TO: Wide Flange Beams-ASTM A992, Grade 50, Fy = 50 KSI Angle and Channel - ASTM A36, Fy = 36 KSI Plate - ASTM A36, Fy = 36 KSI HSS - ASTM A500 SHAPED, Grade C, Fy = 50 KSI ASTM A500 ROUND, Grade C, Fy = 46 KSI
- ALL WELDED CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH LATEST AWS SPECIFICATIONS, USING E70XX ELECTRODES. ALL WELDING SHALL BE PERFORMED BY AN AWS CERTIFIED WELDER.
- BOLTS SHALL CONFORM TO ASTM A325-N FOR STRUCTURAL STEEL BEARING AND TENSION CONNECTIONS. "SNUG TIGHT BOLTS PER AISC & ROSC SPECIFICATIONS.
- ERECTION OF STEEL STRUCTURE SHALL BE PERFORMED PER ALL AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) ERECTION PROVISIONS.
- STRUCTURAL AND MISCELLANEOUS STEEL SUBJECTED TO EXTERIOR EXPOSURE HAS BEEN PRIMED COATED ONLY. FIELD TOUCH-UP, FINISH PAINTING AND MAINTENANCE ARE THE RESPONSIBILITY OF THE OWNER.
- LIGHT GAUGE COLD FORMED SHAPES SHALL CONFORM TO ASTM A653 AND ASTM C-955. ALL MEMBERS SHALL BE FORMED FROM MATERIAL HAVING A 50 KSI MINIMUM YIELD STRENGTH.
- STRUCTURAL DESIGN CRITERIA: Governing Codes = 2018 NCSBC (2015 IBC) AND ASCE 7-10 Risk Category = II Roof Live Load = 20 PSF Roof Snow Load = 32.3 PSF (Flat Roof + Drifting) Roof Snow Design (ASCE 7-10): Ground Snow Load-Pg = 15 PSF Flat roof Snow Load-Pf = 17.6 PSF Exposure Factor-Ce = 1.0 Importance Factor-I = 1.0 Thermal Factor-Ct = 1.2 Wind Design (ASCE 7-10): Basic Wind Speed (3 Sec. Gust) - Vult = 116 MPH Importance Factor-I = 1.0 Exposure = "C" Earthquake Design (ASCE 7-10): Importance Factor - I = 1.0 Site Class = D Spectral Response Coefficients - Ss = 0.171 g Fa = 1.6 Sds = 0.182 g SI = 0.082 g Fy = 2.4 Sd1 = 0.131 g Seismic Design Category - B Basic Seismic - Force - Resisting System - Ordinary Cantilevered Column System Response Modification Coefficient - R = 1 1/4 System Overstrength Factor - Ro = 1 1/4 Deflection Amplification Factor - Cd = 1 1/4 Analysis - Equivalent Lateral Force Procedure Seismic Base Shear (V) = 6.71 k

NOTE: CONCRETE FOR FOUNDATIONS SHALL BE POURED CONTINUOUSLY CREATING A MONOLITHIC FOOTING. CONSTRUCTION JOINTS ARE NOT PERMITTED.

LEGEND

F.G.= FINISHED GRADE (DRIVE SLAB AT COL.)
F.F.= FINISHED FLOOR
B.B.P.= BOTTOM OF BASE PLATE
T.O.I.= TOP OF ISLAND
T.O.F.= TOP OF FOOTING

HIGH POINT UNDER CANOPY = TOP OF BUILDING

F.G. =

B.B.P. =

REFERENCE FOOTING DETAIL

C-1

COLUMN NO.	FINISH GRADE	BOTTOM OF BASEPLATE
C-1		
C-2		
C-3		
C-4		
C-5		
C-6		
C-7		

SITE CONDITIONS / REQUIREMENTS

- PROVIDE A DRIVE ACCESSIBLE AREA TO WITHIN 15'-0" FROM THE EDGE OF CANOPY FASCIA IN ORDER TO UNLOAD MATERIALS AND PERFORM WORK.
- FILL ALL OPEN TANK HOLES AND TRENCHES WITHIN 15'-0" FROM THE EDGE OF CANOPY FASCIA FROM THE TIME THAT THE STRUCTURE ARRIVES AND UNTIL ERECTION IS COMPLETE.
- THE JOB SITE MUST BE GRADED LEVEL WITH NO SWELLS, DITCHES, OR TOPOGRAPHICAL IRREGULARITIES WITHIN 15'-0" FROM THE EDGE OF CANOPY FASCIA. ANY CONCRETE POURED PRIOR TO MCGEE'S ARRIVAL MUST HAVE HAD AMPLE TIME TO CURE AND BE ABLE TO SUPPORT THE WEIGHT OF MCGEE'S TRAILERS AND CRANES.
- THE JOB SITE MUST BE DRY ENOUGH FOR MCGEE'S VEHICLES AND PERSONNEL TO PERFORM WORK. IF NECESSARY THE GENERAL CONTRACTOR SHOULD LAY GRAVEL IN EXCESSIVELY MUDDY AREAS TO ENSURE ADEQUATE WORK CONDITIONS.
- POURED CONCRETE PAVING UNDER THE CANOPY TO BE EXCLUSIVELY FOR WORK SPACE AND STORAGE OF MATERIALS.
- REMOVE ALL OVERHEAD OBSTRUCTIONS.
- FORM, SET, AND POUR FOUNDATIONS PER MCGEE'S SITE SPECIFIC APPROVED FOUNDATION PLAN. ALL FORMS SHALL BE REMOVED PRIOR TO MCGEE'S ARRIVAL. ALL THREADS SHALL BE FREE FROM DEBRIS AND DUST AND SHALL BE ACCESSIBLE.
- INSTALL ALL ANCHOR BOLTS W/ NUTS. SET AT PROPER ELEVATIONS WITH NO MORE THAN 1/4" TOLERANCE.
- PROVIDE TEMPORARY POWER SOURCE (110 VOLTS) WITHIN 100 FEET OF THE STRUCTURE FOR INSTALLERS USE.
- OBTAIN ALL REQUIRED PERMITS FROM LOCAL AUTHORITIES AND ARRANGE ALL LOCAL INSPECTIONS.
- VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. ANY DEVIATIONS FROM THESE DRAWINGS DUE TO FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT ENGINEER FOR MODIFICATIONS.

PLEASE REVIEW ALL DRAWINGS, SIGN AND RETURN FOR FABRICATION OF CANOPY

CANOPY SIZE	<input type="checkbox"/> APPROVED AS SUBMITTED
	<input type="checkbox"/> APPROVED WITH NOTED CHANGES
COLUMN SPACING	<input type="checkbox"/> APPROVED AS SUBMITTED
	<input type="checkbox"/> APPROVED WITH NOTED CHANGES
CLEARANCE	<input type="checkbox"/> APPROVED AS SUBMITTED
	<input type="checkbox"/> APPROVED WITH NOTED CHANGES
SIGNAGE	<input type="checkbox"/> NUMBER APPROVED AS SUBMITTED
	<input type="checkbox"/> LAYOUT APPROVED AS SUBMITTED
	<input type="checkbox"/> APPROVED WITH NOTED CHANGES
DECALS	<input type="checkbox"/> APPROVED AS SUBMITTED
	<input type="checkbox"/> APPROVED WITH NOTED CHANGES
LIGHTS	<input type="checkbox"/> NUMBER APPROVED AS SUBMITTED
	<input type="checkbox"/> LAYOUT APPROVED AS SUBMITTED
	<input type="checkbox"/> APPROVED WITH NOTED CHANGES

ELEVATION FORMS FORWARDED TO GENERAL CONTRACTOR

APPROVED BY: _____

DATE: _____

NOTE: SIGNED SALES ORDER, APPROVAL DRAWINGS, AND A COMPLETED ELEVATION FORM MUST BE RECEIVED AT LEAST 3 WEEKS PRIOR TO DELIVERY OF ANY CANOPY MATERIALS. REQUESTED DELIVERY DATE: _____

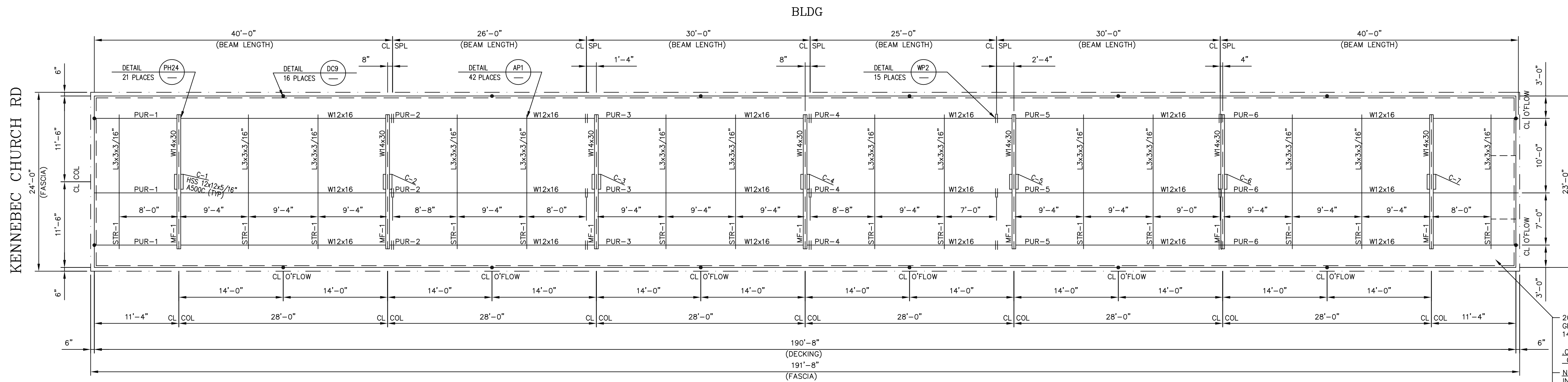
CAD FILE NO./PLOT SCALE
1/8"=1'-0"
62690

MCGEE CORPORATION 12701 East Independence Blvd. P.O. Box 1375 Matthews, NC 28106-1375 Phone: (704) 882-1500 Watts: (800) 526-5589	PR. JOB NO. 62690	FINAL JOB NO. 62690	DRAWING NO. P062690
	CIRCLE K FUEL CANOPY 9706 KENNEBEC CHURCH RD ANGIER, NC (HARNETT)		
These prints are the property of McGee Corp. Reproduction or reuse is prohibited without written permission.	SCALE: 1/8"=1'-0" DATE: 12/22/22	IN ACCORDANCE WITH REV. LETTER:	DRAWN BY: ECT CHK'D BY:
METAL CANOPY 24'-0" x 191'-8" FOUNDATION PLAN			SHEET NO. 1 OF 3

ARP ENGINEERING
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(704) 225-0079
NC COA C2424





CANOPY ROOF PLAN
NC-55 S

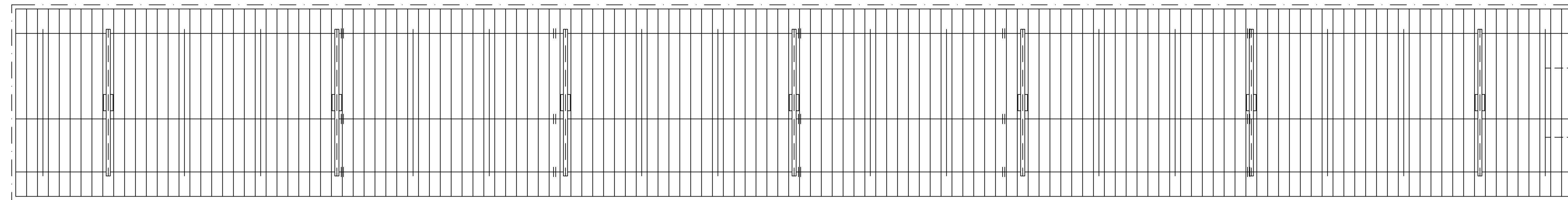
20 GA. WHITE EMBOSSED
GRAND SPAN 16.0" STEEL DECKING
143 PANELS @ 23'-0"

.032 ALUMINUM GUTTER SYSTEM
COLOR TO MATCH DECK.

NOTE: CANOPY BEAM CLIPS MUST BE
INSTALLED ON BOTH SIDES OF THE
PURLIN. SEE DETAIL CP4.

STITCH DECKING WITH TEK @ MIDSPAN
BETWEEN PURLINS, 2" MINIMUM FROM
FLAT SIDE OF DECK PAN. (INDICATED
ON ROOF PLAN WITH DASHED LINE)

DETAIL CP4



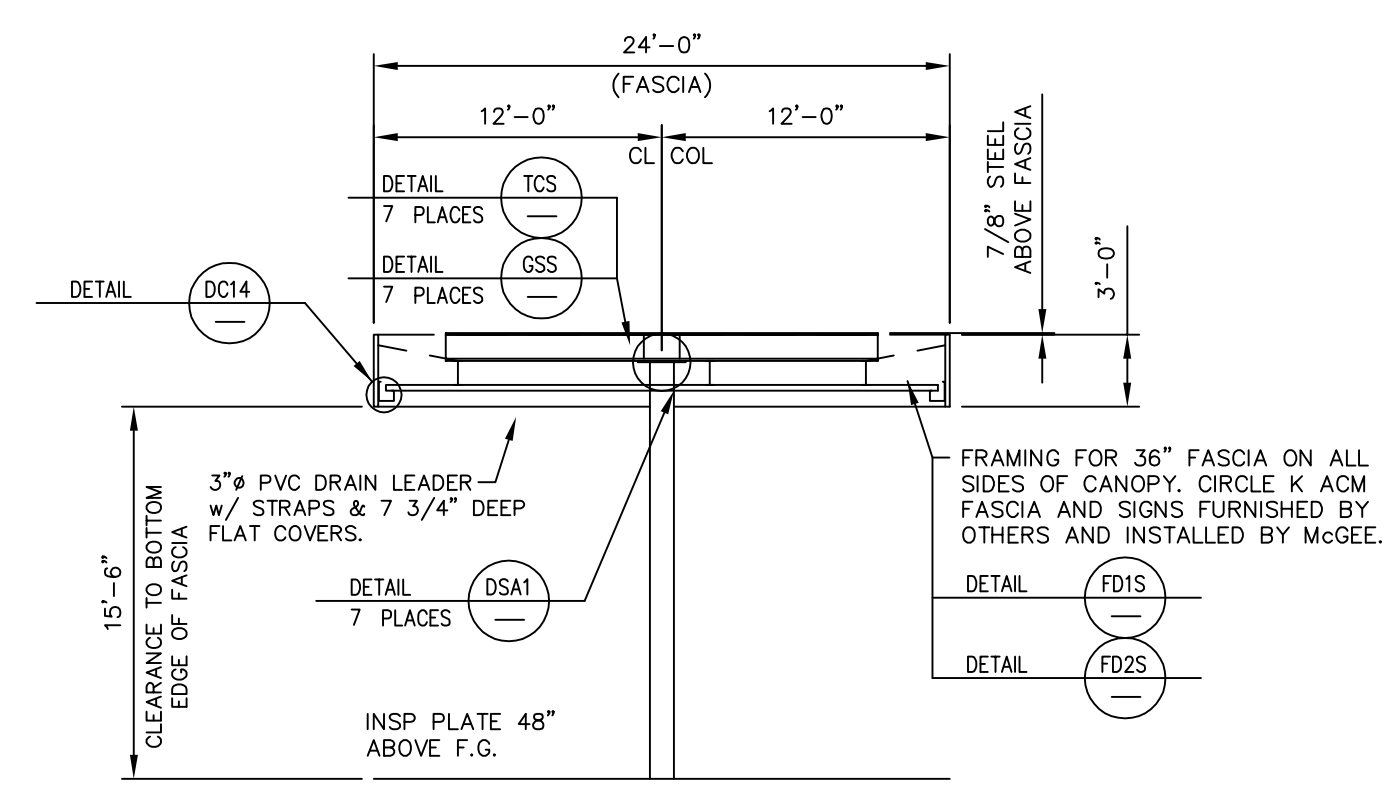
CANOPY DECK LAYOUT

ANCHOR BOLT SHIPPING REQUIREMENTS		
ANCHOR BOLT USE	BOLT DESCRIPTION	QUANTITY
BCS-BASE PLATE (7 PLACES)	1-1/4"x36" LONG HEX HEADED ANCHOR BOLTS	42

HARDWARE LIST BREAK-DOWN (REFERENCE ONLY)		
ITEM USE (# OF PLACES FOR CHECKING ONLY)	DESCRIPTION	QUANTITY
TCS-TOP PLATE (7 PLACES)	1" x 2 1/2" BOLTS w/ NUTS	56
WP2-BEAM SPLICE (15 PLACES)	5/8" x 2-1/2" BOLTS w/ NUTS	90
WP2-BEAM SPLICE (15 PLACES)	6x10x1/4" PLATE	15
PH24-CONNECTION (21 PLACES)	5/8" x 2-1/2" BOLTS w/ NUTS	84
AP1-CONNECTION (42 PLACES)	5/8" x 2-1/2" BOLTS w/ NUTS	42

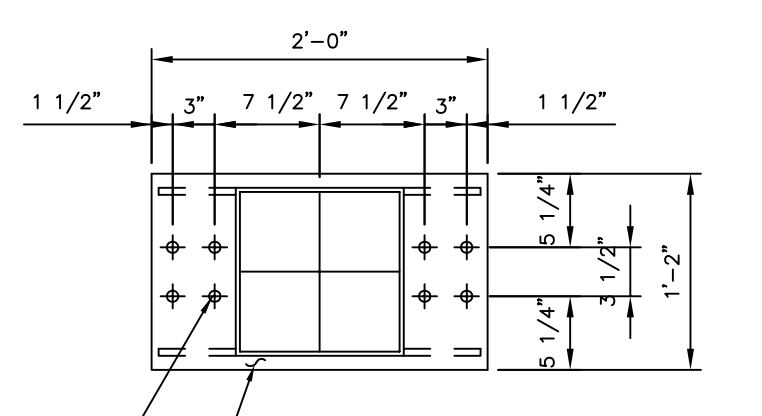
CANOPY SHIPPING STEEL HARDWARE MANIFEST						
QUANTITY	DESCRIPTION	QUANTITY SHIPPED	PULLED BY	CHECKED BY	TRAILER #	LOADED BY
56	1" x 2 1/2" BOLTS w/ NUTS					
216	5/8" x 2-1/2" BOLTS w/ NUTS					
15	(WP2) 6x10x1/4" PLATE					

CANOPY SHIPPING MANIFEST						
QUANTITY	DESCRIPTION	TOP PLATE	BASE PLATE	PLATE DRAINS	W/S & CONDUIT	VENT
7	MF-1 W14x30 (18'-0")					
3	PUR-1 W12x16 (39'-11 7/8")					
3	PUR-2 W12x16 (25'-11 3/4")					
3	PUR-3 W12x16 (29'-11 3/4")					
3	PUR-4 W12x16 (24'-11 3/4")					
3	PUR-5 W12x16 (29'-11 3/4")					
3	PUR-6 W12x16 (39'-11 7/8")					
14	STR-1 L3x3x3/16" (18'-0")					
6	COL 1,2,3,4,5,6,7, HSS 12x12x5/16"					
96	SIDE OUTRIGGERS @ 48" O.C.					
14	END OUTRIGGERS @ 48" O.C.					
1-L	LOT HARDWARE					

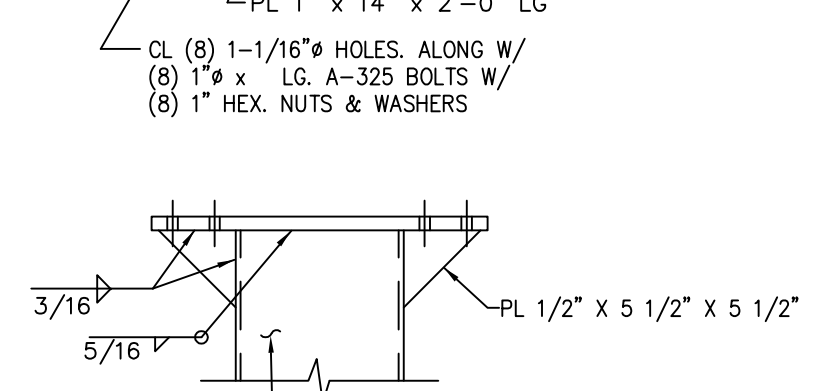


MAIN FRAME DETAIL

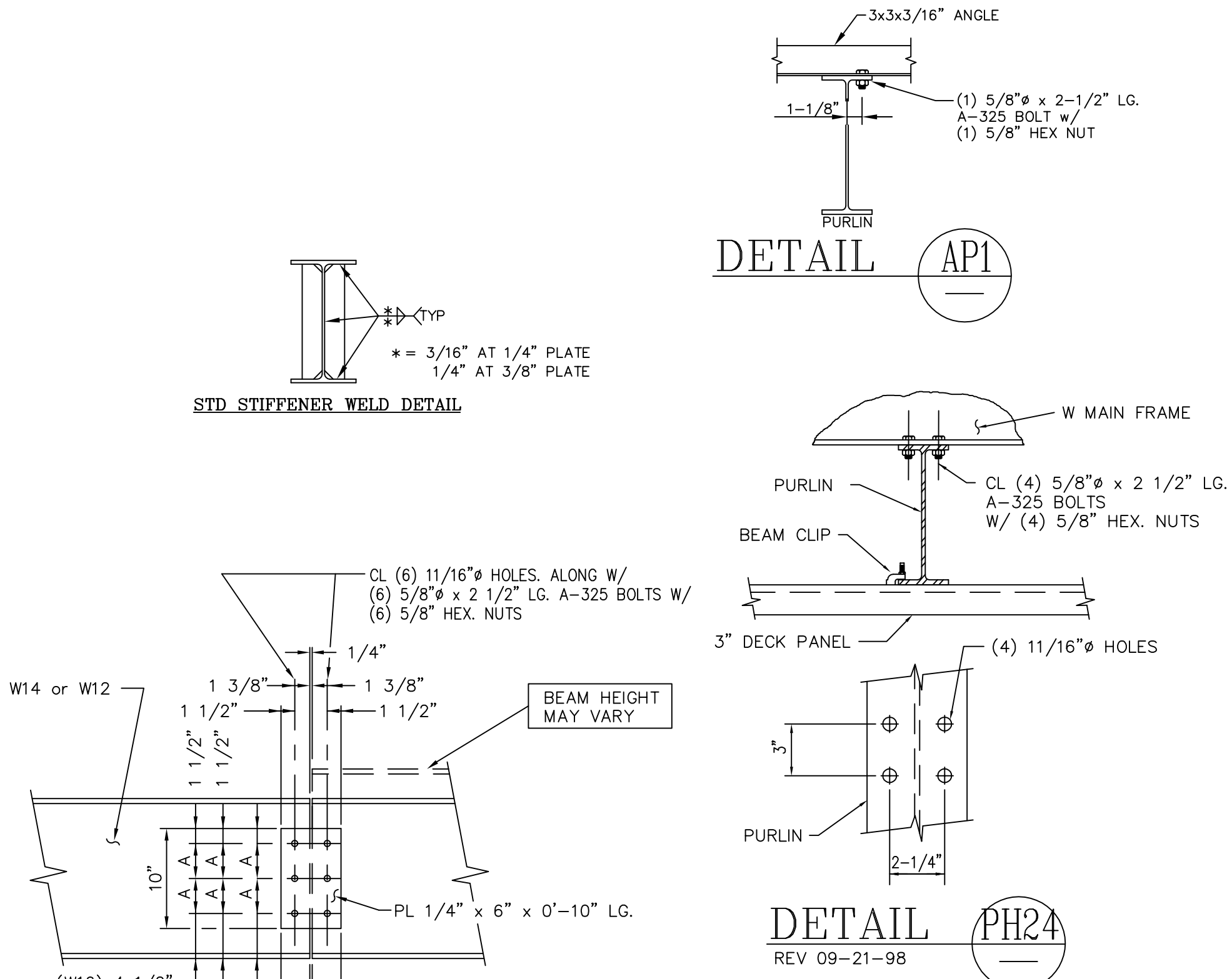
THE COLUMN CAP PLATE BOLTS SHALL BE PRETENSIONED. THE TURN OF THE NUT METHOD SHALL BE USED OR APPROVED EQUAL.



DETAIL TCS



DETAIL GSS



DETAIL AP1

DETAIL PH24

ERECTION NOTES:
REVIEW PLANS & DETAILS PRIOR TO INSTALLATION.
INSTALL BEAMS ACCORDING TO MARKED END #S ON ROOF PLAN.
BEAM OVERHANG IS 4" LONGER ON RIGHT HAND END OF CANOPY.
IF APPLICABLE, SAME APPLIES FOR BEAM OVERHANG AT TEE.
THIS IS TO ALLOW FOR DECK PANEL GROWTH.
INSTALL DECK PANELS FROM LEFT TO RIGHT ON MAIN CANOPY . IF APPLICABLE SAME APPLIES FOR TEE.
SEE ROOF PLAN FOR PROPER SLOPE AND HOW SLOPE IS ACQUIRED.
SEE FASCIA DETAILS WHICH ALSO REFERS BACK TO GENERAL NOTES FOR OUTRIGGER SPACINGS.
SP FASCIA ONLY START FASCIA AT LEFT END - SEE DIMENSION FOR LOCATION OF FIRST 14 PANEL.

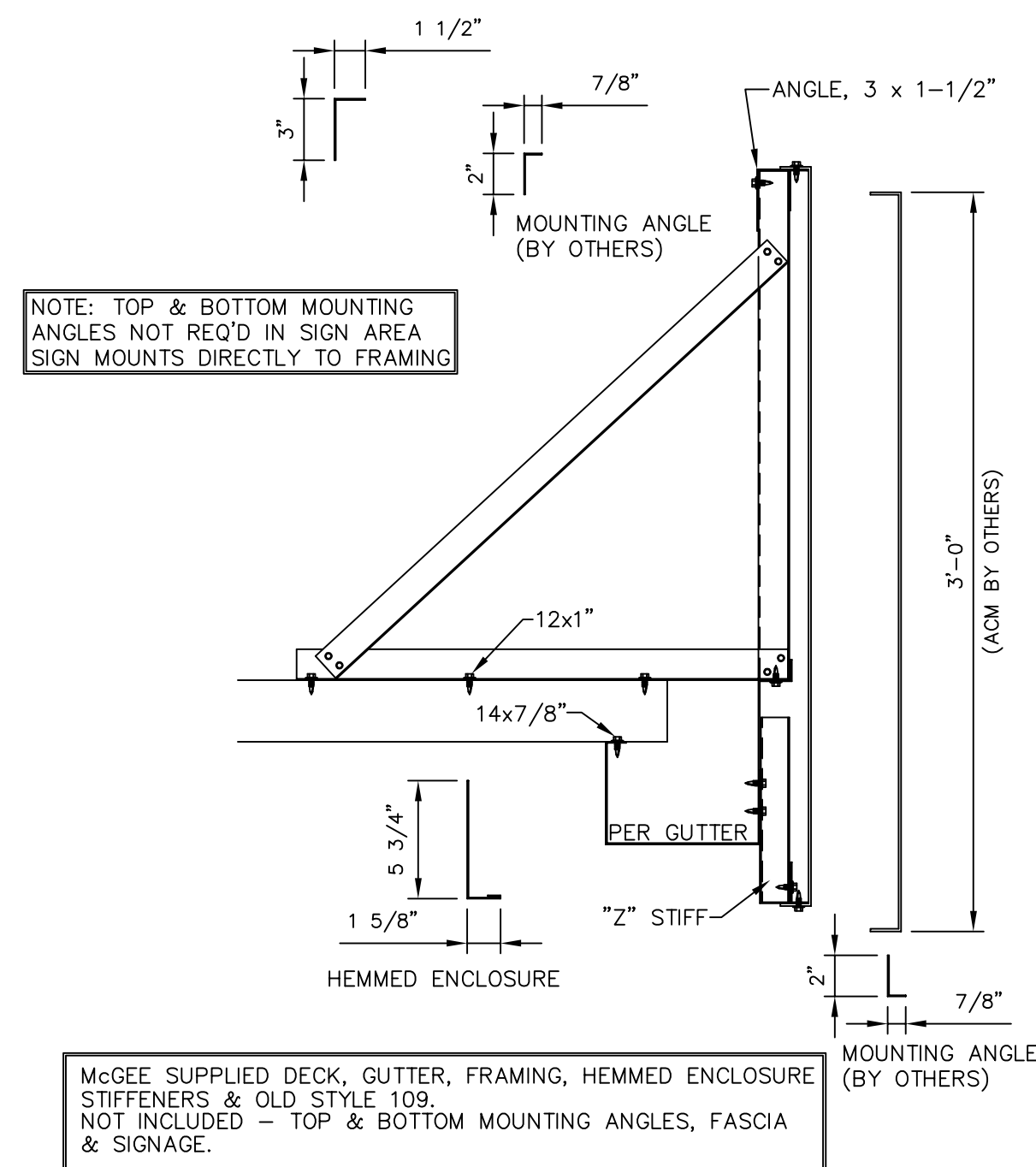
McGEE CORPORATION
12701 East Independence Blvd. P.O. Box 1375 Matthews, NC 28106-1375
Phone: (704) 882-1500
Watts: (800) 526-5589

PR. JOB NO.	FINAL JOB NO.	DRAWING NO.
	62690	P062690A
CIRCLE K FUEL CANOPY 9706 KENNEBEC CHURCH RD ANGIER, NC (HARNETT)		
SCALE: 1/8"=1'-0"	IN ACCORDANCE WITH REV. LETTER:	DRAWN BY: ECT
DATE: 12/22/22		CHECKED BY:
METAL CANOPY 24'-0" x 191'-8"		
ROOF PLAN & DETAILS		SHEET NO. 2 OF 3

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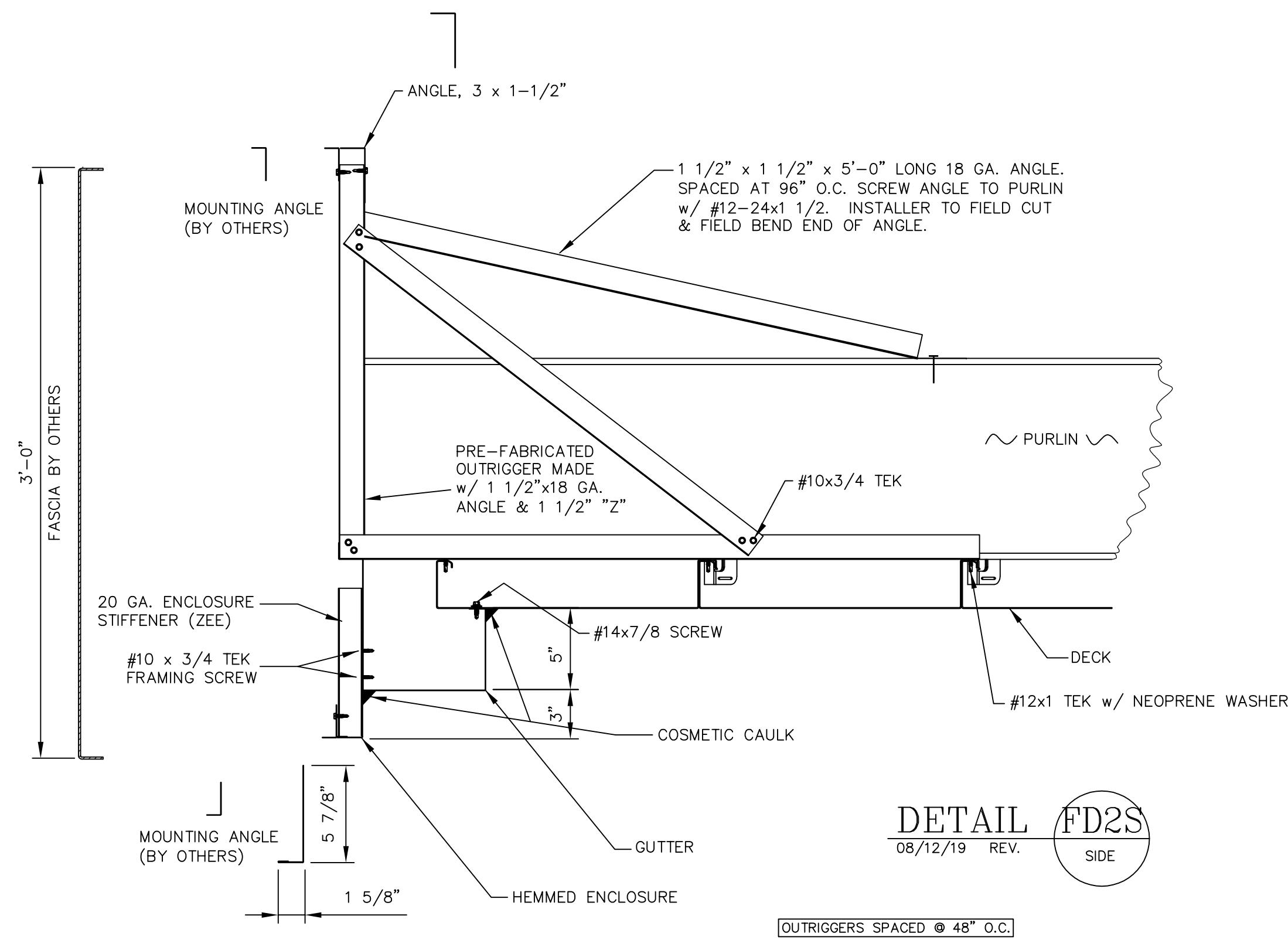


NOTE: TOP & BOTTOM MOUNTING ANGLES NOT REQ'D IN SIGN AREA. SIGN MOUNTS DIRECTLY TO FRAMING.

McGEE SUPPLIED DECK, GUTTER, FRAMING, HEMMED ENCLOSURE, STIFFENERS & OLD STYLE 109. NOT INCLUDED - TOP & BOTTOM MOUNTING ANGLES, FASCIA & SIGNAGE.

DETAIL FD1S
5/7/20 REV.

OUTRIGGERS SPACED @ 48" O.C.



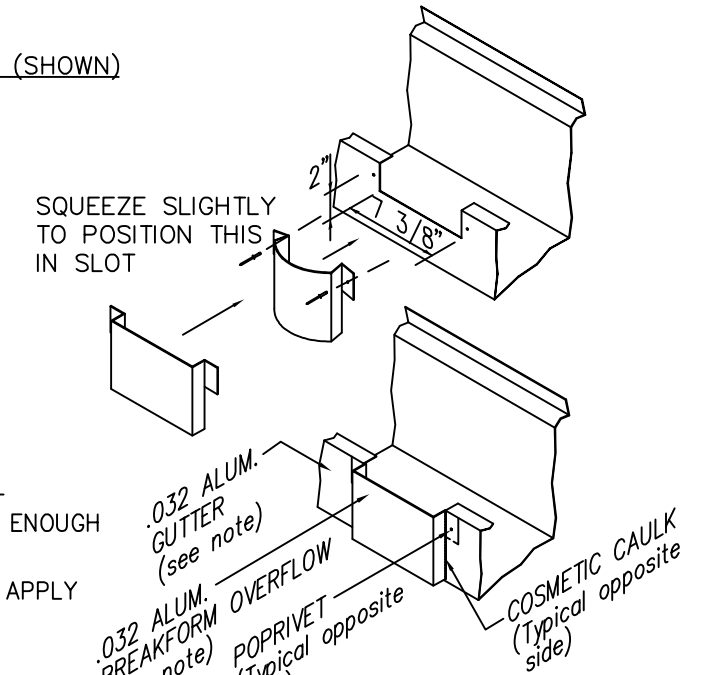
DETAIL FD2S
08/12/19 REV. SIDE

OUTRIGGERS SPACED @ 48" O.C.

PERIMETER GUTTER O'FLOW CUTOUT (SHOWN)

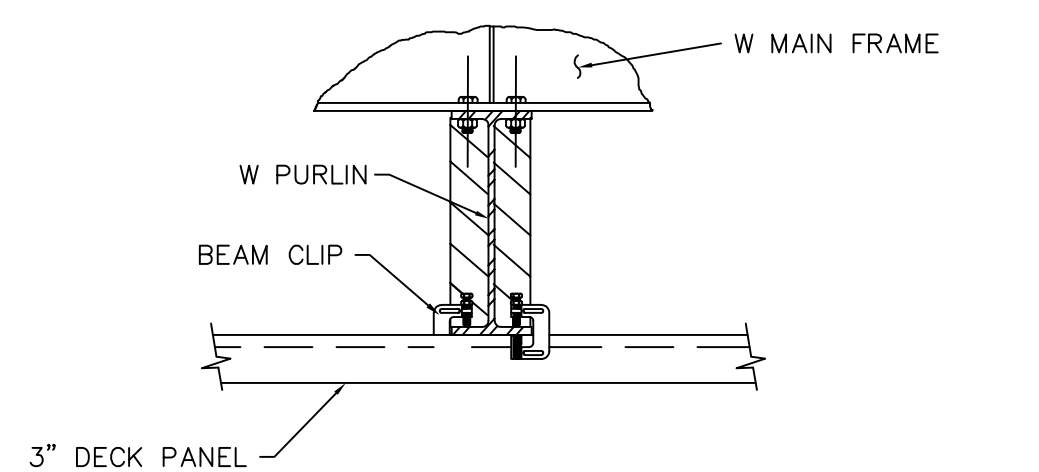
NOTCH 2" x 7 3/8" HOLE IN GUTTER AS SHOWN (See roof plan for locations on canopy)

CENTER GUTTER O'FLOW CUTOUT
NOTCH 2" x 7 3/8" HOLE IN GUTTER AS SHOWN. ALTERNATE DIRECTION OF CUT AND OVERFLOW IF MORE THAN (2) OVERFLOWS ARE PRESENT (See roof plan for locations on canopy)

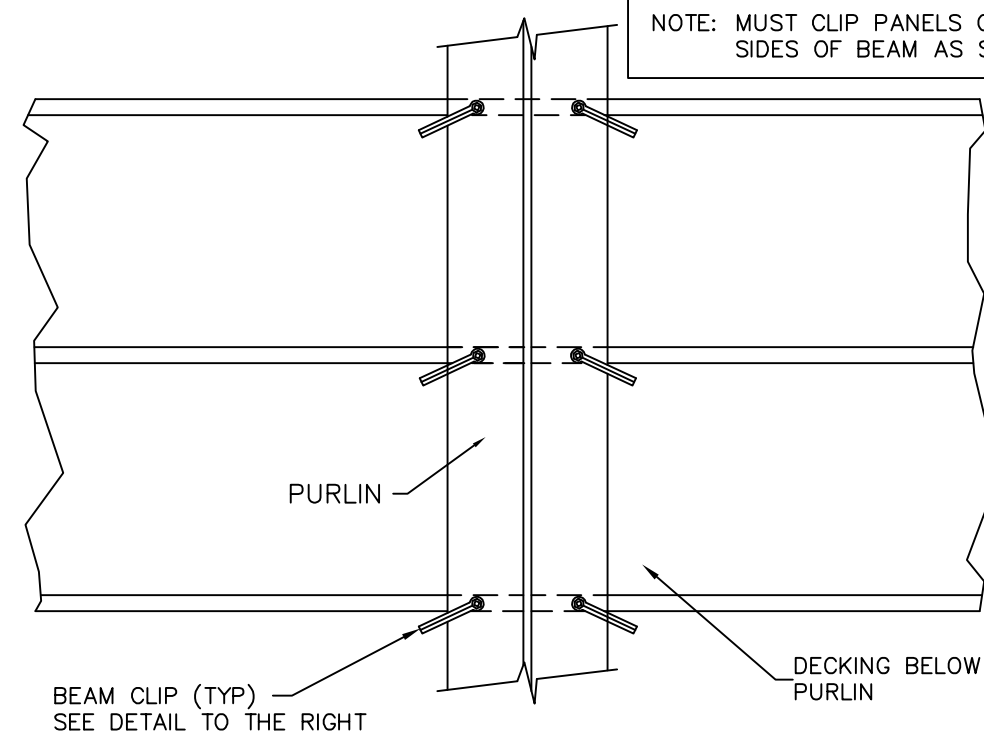


OVERFLOW INSTALLATION
INSERT (1) FLANGE AND BEND JUST ENOUGH TO GET OTHER SIDE IN.
USE (1) POPRIVET EACH SIDE THEN APPLY COSMETIC CAULK AROUND EDGES.

DETAIL DC9
REV. 1 03-26-02



NOTE: MUST CLIP PANELS ON BOTH SIDES OF BEAM AS SHOWN.

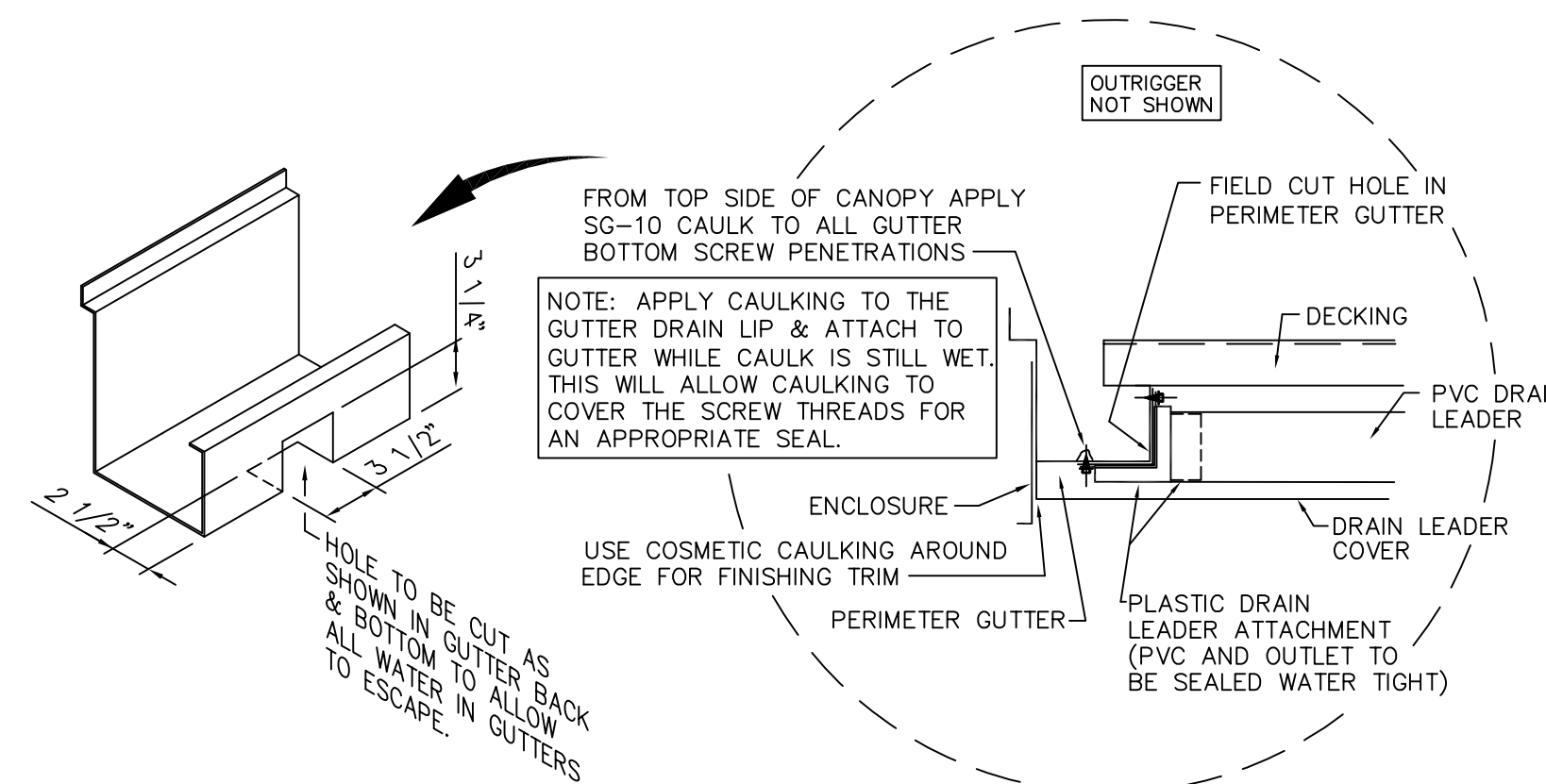
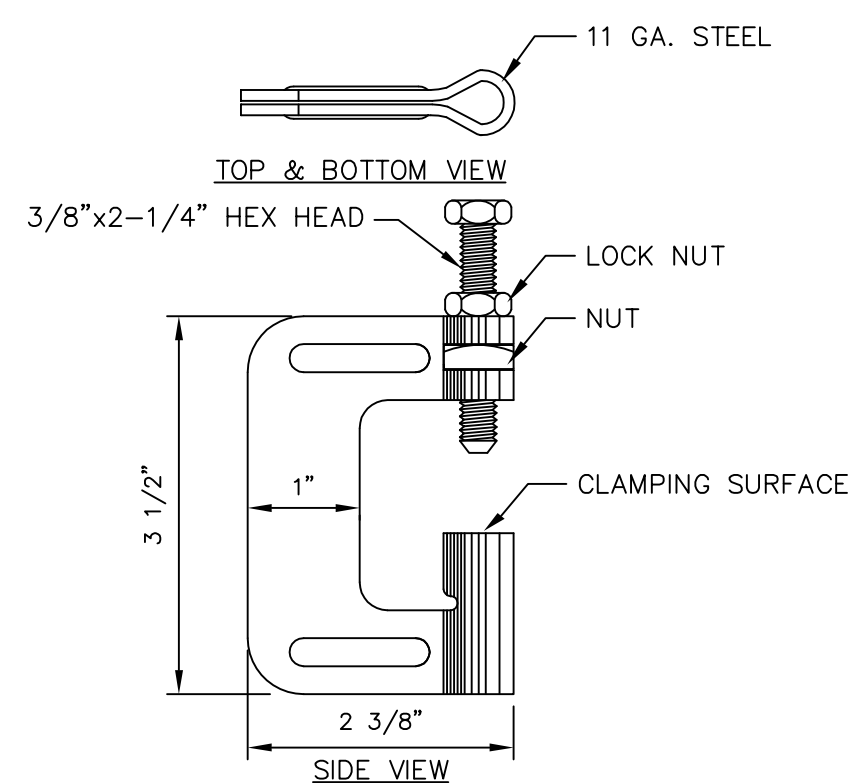


DETAIL CP4
REV 02-21-19

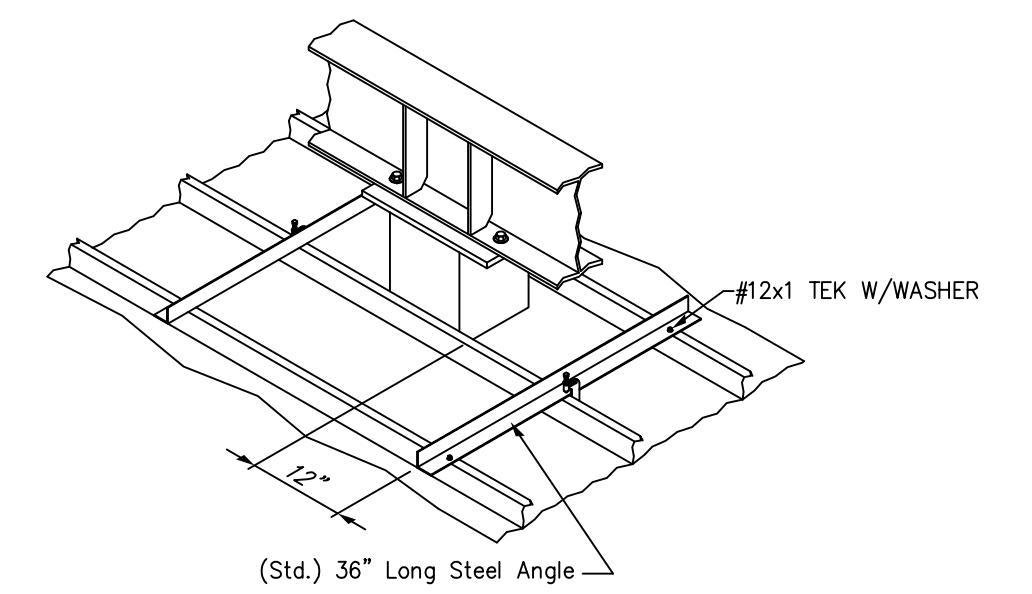
McGEE BEAM CLIP INSTALLATION PROCEDURE: SET BEAM CLIP WITH BOLT ON TOP OF BEAM FLANGE AND CLAMPING SURFACE UNDER DECK RIB. PUSH CLIP AGAINST DECK AND BEAM FLANGE WITH BOLT AS FAR ONTO BEAM FLANGE AS POSSIBLE. WHILE KEEPING BEAM CLIP VERTICAL, TURN BOLT TO SNUG TIGHT WITHOUT BURROWING INTO STEEL BEAM FLANGE. THEN PROCEED TO TURN BOLT 3/4 TURN (270°). TIGHTEN LOCK NUT MAKING SURE THAT BEAM CLIP REMAINS IN POSITION.

McGEE BEAM CLIP DETAIL

MATERIAL-
BOLT: 3/8" - 16 CLASS 3A X 2.25" STEEL FULLY THREADED HX HD M/S WITH CUP POINT. SAE J429, GR 8 W/ MIN TENSILE STRENGTH OF 150 KSI, CASE HARDENED & HEAT TREATED TO MIN/MAX MID-RADIUS CORE HARDNESS OF HRC 33-39. ZINC PLATED PER ASTM B695 WITH CLASS 55 COATING.
CLIP BODY MATERIAL: 11ga (0.115") ASTM A653 FS TYPE B (A526 CQ) (GALVANIZED G90) (MIN YIELD STRENGTH = 36 ksi)
NUTS: 3/8-16 3B HEX HEAD NUT AND SQUARE NUT PER SAE J995 GR 8 W/ MIN TENSILE STRENGTH OF 150 KSI, HEAT TREATED TO MIN/MAX HARDNESS OF HRC 33-39. ZINC PLATED PER ASTM B695 WITH CLASS 55 COATING.
PERFORMANCE TESTING PER ASTM F606/F606M -16 - "STANDARD TEST METHODS FOR DETERMINING MECHANICAL PROPERTIES OF EXTERNALLY AND INTERNALLY THREADED FASTENERS, WASHERS, DIRECT TENSION INDICATORS AND RIVETS"



DETAIL DC14
REV. 3-21-16



Step 1 Attach a support bracket on each side of the column to support the cut rib of deck. Keep bracket at least 12" away from column to allow room to seal around column. (Typ. all columns)

Step 2 Use McGee beam clip and TEK screws as shown to secure and support.

DETAIL DSA1

ARP ENGINEERING
CONSULTING ENGINEERS

202 EAST FRANKLIN STREET, SUITE A
PO BOX 587 - MONROE - NC 28111
(704) 225-0079
NC COA C2424



McGEE CORPORATION 12701 East Independence Blvd., P.O. Box 1375 Matthews, NC 28106-1375 Phone: (704) 882-1500 Watts: (800) 526-5389	PR. JOB NO.	FINAL JOB NO.	DRAWING NO.
		62690	P062690B
These prints are the property of McGee Corp. Reproduction or reuse is prohibited without written permission.	CIRCLE K FUEL CANOPY 9706 KENNEBEC CHURCH RD ANGIER, NC (HARNETT)		
	SCALE: NTS	IN ACCORDANCE WITH REV. LETTER:	DRAWN BY: ECT CHK'D BY:
DATE: 12/22/22		SHEET NO. 3 OF 3	
METAL CANOPY 24'-0" x 191'-8"		MISC. DETAILS	