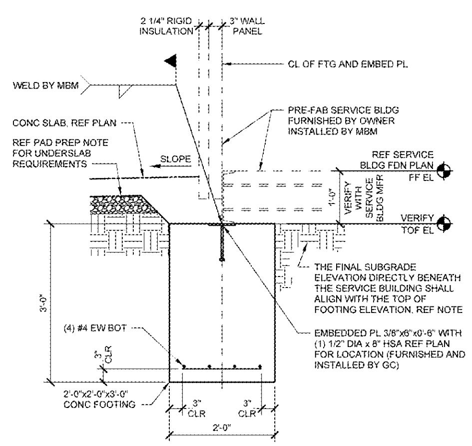
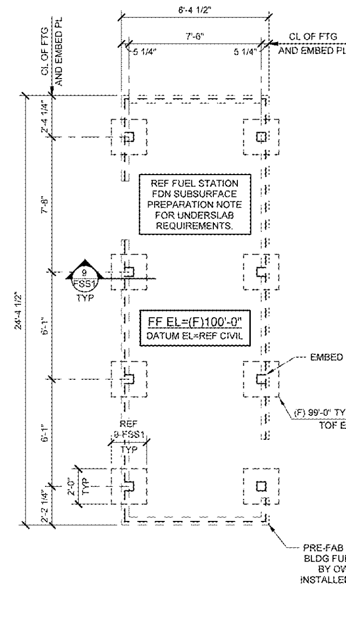
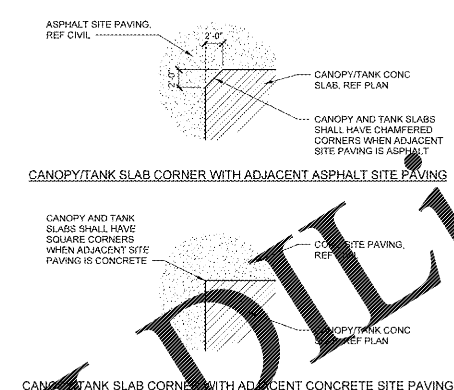
NOTE:
THE SUBSURFACE PREPARATION DIRECTLY BENEATH THE SERVICE BUILDING SHALL BE AS SPECIFIED IN THE PAD PREP NOTE ON SHEET FSS0. THE FINAL SUBGRADE ELEVATION DIRECTLY BENEATH THE SERVICE BUILDING SHALL ALIGN WITH THE TOP OF FOOTING ELEVATION. BASE MATERIAL AS SPECIFIED IN THE PAD PREP NOTE IS NOT REQUIRED DIRECTLY BENEATH THE SERVICE BUILDING. PORTIONS OF THE PAD DIRECTLY BENEATH THE SERVICE BUILDING MUST BE RECESSED FOR PLUMBING PRIOR TO PLACEMENT OF THE PRE-FAB SERVICE BLDG. COORDINATE THE PAD RECESSED AREAS WITH THE MBM. ALL UTILITY TRENCHES THROUGH THE PAD SHALL BE FILLED TO THE ADJACENT SUBGRADE ELEVATION.



9 SERVICE BUILDING FOOTING
3/4" = 1'-0"



8 SERVICE BUILDING FOUNDATION PLAN
1/4" = 1'-0"



7 TYPICAL SLAB EXTERIOR CORNER
1/8" = 1'-0"

FUEL CANOPY MFR NOTES

1.0 GENERAL
- 1.1 MANUFACTURER SHALL DESIGN AND SUPPLY ALL CANOPY FRAMING AND SUBSEQUENT CONNECTIONS (INCLUDING BASE PLATES AND ANCHOR BOLTS) TO MEET THE CANOPY DESIGN LOAD CRITERIA SHOWN ON SHEET FSS0.
- 1.2 STRUCTURAL DESIGN OF THE CANOPY SHALL BE PERFORMED BY AN ENGINEER LICENSED IN THE PROJECT STATE.
- 1.3 PROFILES ARE SHOWN FOR GRAPHICAL PURPOSES ONLY AND NOT INTENDED TO SUGGEST CONFIGURATION OF PRIMARY MEMBERS.

2.0 FOUNDATIONS AND SUBGRADE
- 2.1 REFER TO GENERAL NOTES ON SHEET FSS0 FOR FOUNDATION GENERAL NOTES.
- 2.2 REFER TO GENERAL NOTES ON SHEET FSS0 FOR SUBGRADE GENERAL NOTES.

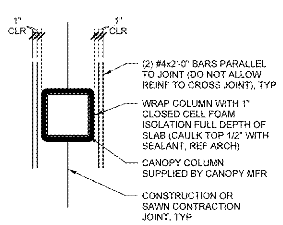
3.0 CONCRETE AND REINFORCING STEEL
- 3.1 REFER TO GENERAL NOTES ON SHEET FSS0 FOR CONCRETE AND REINFORCING STEEL GENERAL NOTES.

4.0 CANOPY REACTIONS
- 4.1 MANUFACTURER SHALL PROVIDE ALL CALCULATIONS AND SHOP DRAWINGS TO THE BUILDING ENGINEER FOR REVIEW PRIOR TO THE START OF CONSTRUCTION.
- 4.2 MANUFACTURER SHALL PROVIDE ALL FOUNDATION REACTIONS TO THE BUILDING ENGINEER FOR REVIEW AND VERIFICATION OF FOUNDATION DESIGN (FOUNDATION DESIGN BY BUILDING ENGINEER). WIND AND SEISMIC REACTIONS SHALL BE PROVIDED AT ASD SERVICE LEVEL. MANUFACTURER SHALL PROVIDE A REACTION TABLE ON THE SHOP DRAWINGS [illegible] THE VERTICAL LOADS, SHEAR LOADS, AND MOMENTS FOR EACH OF THE FOLLOWING LOAD CATEGORIES: DEAD, LIVE, SNOW, WIND, AND SEISMIC. DO NOT PROVIDE COMBINED LOAD REACTIONS.
- 4.3 MANUFACTURER SHALL PROVIDE THE MINIMUM AND MAXIMUM REACTIONS NOTED ABOVE FOR THE WIND AND SEISMIC LOAD CATEGORIES.
- 4.4 SNOW REACTIONS SHALL INCLUDE UNBALANCED SNOW LOADS AND/OR HIGH-LOW ROOF DRIFTING FROM THE MAIN BUILDING WHEN APPLICABLE.

5.0 CONSTRUCTION AND SAFETY
- 5.1 CANOPY ERECTOR SHALL PROVIDE TEMPORARY BRACING FOR THE ENTIRE CANOPY STRUCTURE UNTIL ALL STRUCTURE AND CONNECTIONS ARE INSTALLED AND FUNCTIONING AS THE DESIGNED UNIT.
- 5.2 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION SELECTED.
- 5.3 THE CANOPY ERECTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITIONS OF THE JOB SITE IN AND AROUND THE CANOPY INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY.

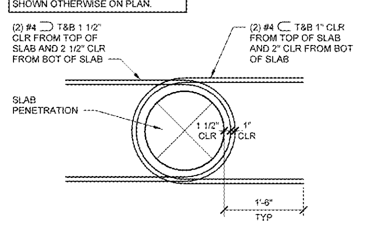
FUEL CANOPY INSPECTIONS

1. INSPECTIONS
   - A. INSPECTIONS ARE REQUIRED AT THE FUEL CANOPY. REFER TO APPENDIX B OF THE PROJECT SPECIFICATIONS FOR THE REQUIREMENTS OF SPECIAL INSPECTIONS.
   - B. ADDITIONAL INSPECTIONS ARE REQUIRED FOR THE FUEL CANOPY FOUNDATIONS. THESE SHALL INCLUDE THE STRUCTURAL CONCRETE (03310) INSPECTIONS AND FREQUECIES LISTED IN APPENDIX B OF THE PROJECT SPECIFICATIONS:
     1. CONCRETE REINFORCEMENT
     2. EMBEDDED ITEMS
     3. CONCRETE FOUNDATIONS STRUCTURAL INSPECTIONS
     4. CONCRETE MIX
     5. PREPARATION AND PLACEMENT
     6. PROTECTION AND CURING
   - C. REFER TO APPENDIX B OF THE PROJECT SPECIFICATIONS FOR INSPECTOR QUALIFICATIONS AND RESPONSIBILITIES.

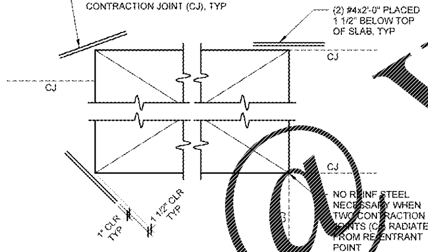


6 CANOPY COLUMN ISOLATION
3/4" = 1'-0"

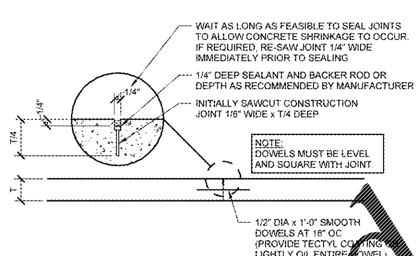
NOTE:
DO NOT RUN SLAB PENETRATION REINF STEEL THROUGH CONTRACTION JOINTS (CJ) UNLESS SHOWN OTHERWISE ON PLAN.



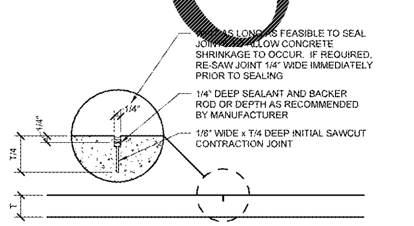
5 TANK SLAB PENETRATION REINFORCING DIAGRAM
3/4" = 1'-0"



4 RE-ENTRANT CORNER REINF
1/2" = 1'-0"

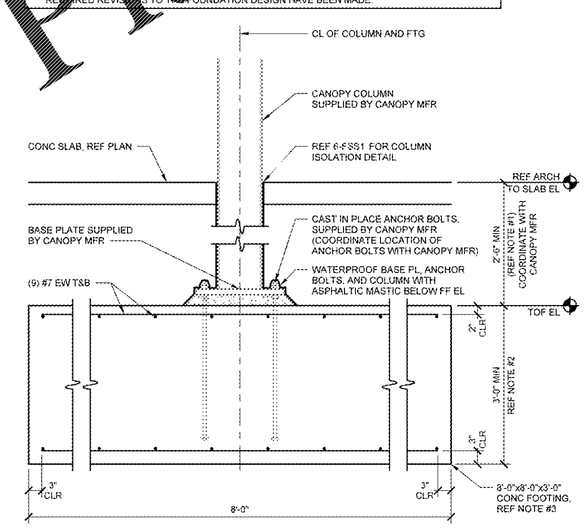


3B EXTERIOR CONC SLAB CONSTRUCTION JOINT (CONST JT)
3/4" = 1'-0"

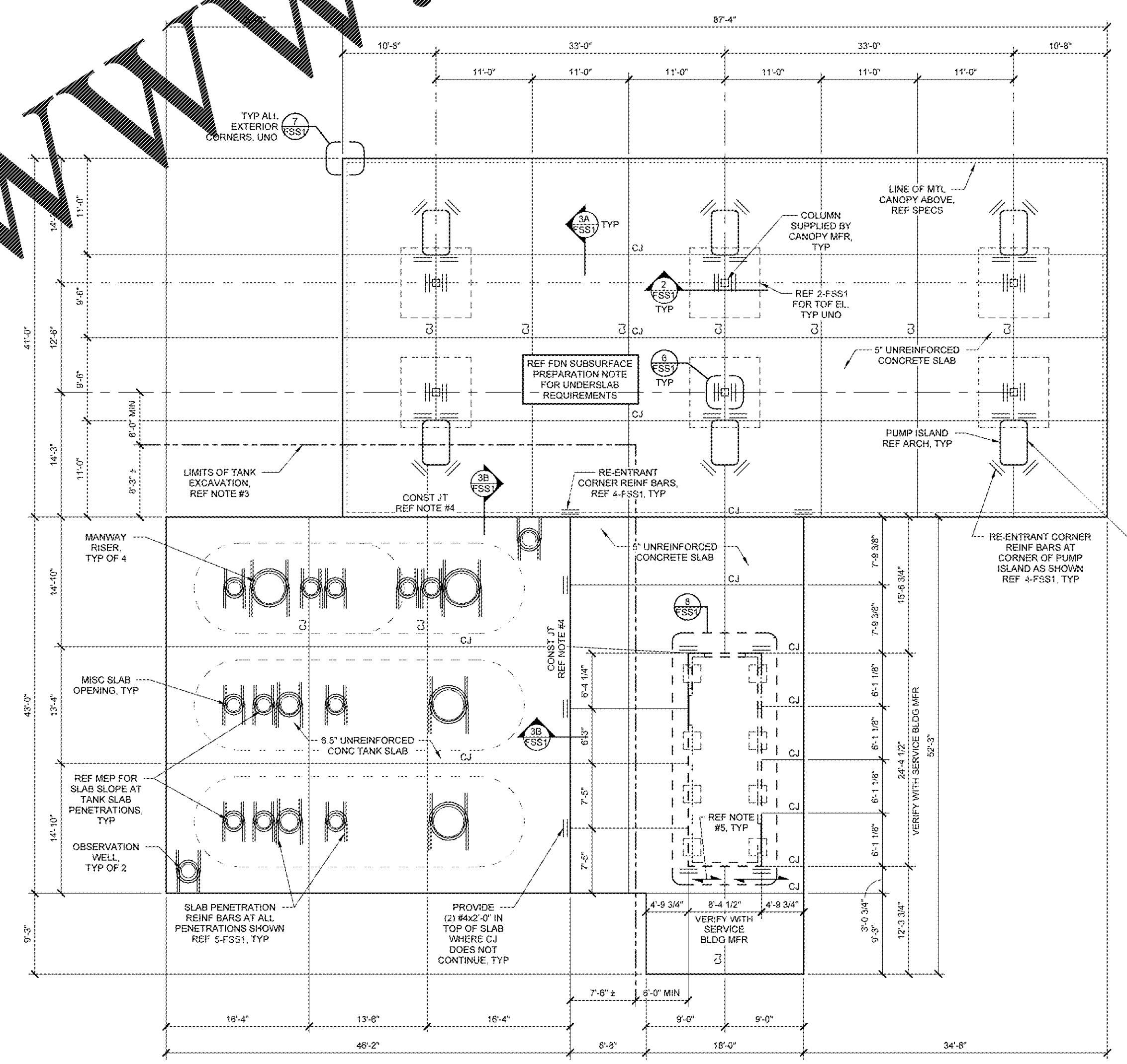


3A EXTERIOR CONC SLAB CONTRACTION JOINT (CJ)
3/4" = 1'-0"

NOTE(S):
1. DIMENSION FROM TOP OF SLAB ELEVATION TO TOP OF FOOTING ELEVATION ENSURES FOOTING WILL NOT CONFLICT WITH FUEL PRODUCT PIPING AND DISPENSER SUMP
2. GC SHALL VERIFY FOOTING THICKNESS PROVIDES 3" MIN COVER FOR ANCHOR BOLTS. IF NECESSARY, INCREASE FOOTING THICKNESS TO PROVIDE ADEQUATE COVER.
3. CANOPY FOUNDATION DESIGN IS PRELIMINARY ONLY. FINAL DESIGN WILL BE BASED ON LOADING PROVIDED BY THE CANOPY MANUFACTURER. FOUNDATION SHALL NOT BE PLACED UNTIL CANOPY DESIGN SUBMITTAL IS APPROVED BY THE ENGINEER OF RECORD AND ANY REQUIRED REVISIONS TO THE FOUNDATION DESIGN HAVE BEEN MADE.



2 CANOPY COLUMN FOOTING
3/4" = 1'-0"



WRAP PUMP ISLAND WITH 1/2" CLOSED CELL FOAM ISOLATION FULL DEPTH OF SLAB. CAULK TOP 1/2" WITH SEALANT, REF ARCH TYP

NOTE(S):
1. REF ARCH FOR ALL TOP OF SLAB ELEVATIONS.
2. GROUNDWATER MAY BE ENCOUNTERED DURING FOUNDATION, SLAB, AND UNDERGROUND STORAGE TANK EXCAVATION. REFER TO GENERAL NOTES FOR ADDITIONAL INFORMATION.
3. PERMANENT SHORING MAY BE REQUIRED AT UNDERGROUND STORAGE TANK EXCAVATION DUE TO PROXIMITY TO STRUCTURAL FOUNDATIONS, REFER TO GENERAL NOTES.
4. CONTRACTOR'S OPTION: CANOPY SLAB AND TANK SLAB MAY BE POURED IN A CONTINUOUS POUR REPLACING THE SLAB CONSTRUCTION JOINT (CONST JT) WITH A CONTRACTION JOINT (CJ). DOWEL BASKETS SHALL BE PROVIDED TO SUPPORT DOWELS AT THE JOINT BETWEEN THE CANOPY AND TANK SLABS INDICATED AS CONST JT. UNDER NO CIRCUMSTANCES SHALL DOWELS BE ELIMINATED FROM THE JOINT BETWEEN THE CANOPY AND TANK SLABS.
5. PROVIDE #4 AT 12" OC LONGITUDINAL PLACED 1 1/2" BELOW TOP OF SLAB IN AREAS MARKED ⟷ : STOP REINF 6" SHORT PF CJ'S, TYP

1 CANOPY FOUNDATION PLAN
1/8" = 1'-0"

CONSULTANTS
ELLISON GAGE & ASSOCIATES, PLLC
Consulting Structural Engineers
CERTIFICATE OF AUTHORITY P-1048
Robert Bryan Gage, P.E.
License No. 034189
ENGINEER OF RECORD

CHARLOTTE, NC
CLUB # 6540
JOB NUMBER: 1914004 | PROTO: SAM6-192

ISSUE BLOCK

CHECKED BY:	RBG
DRAWN BY:	MWH
PROTO CYCLE:	10/26/18
DOCUMENT DATE:	09/20/19

NOT FOR CONSTRUCTION

FOUNDATION PLANS AND DETAILS

SHEET: FSS1