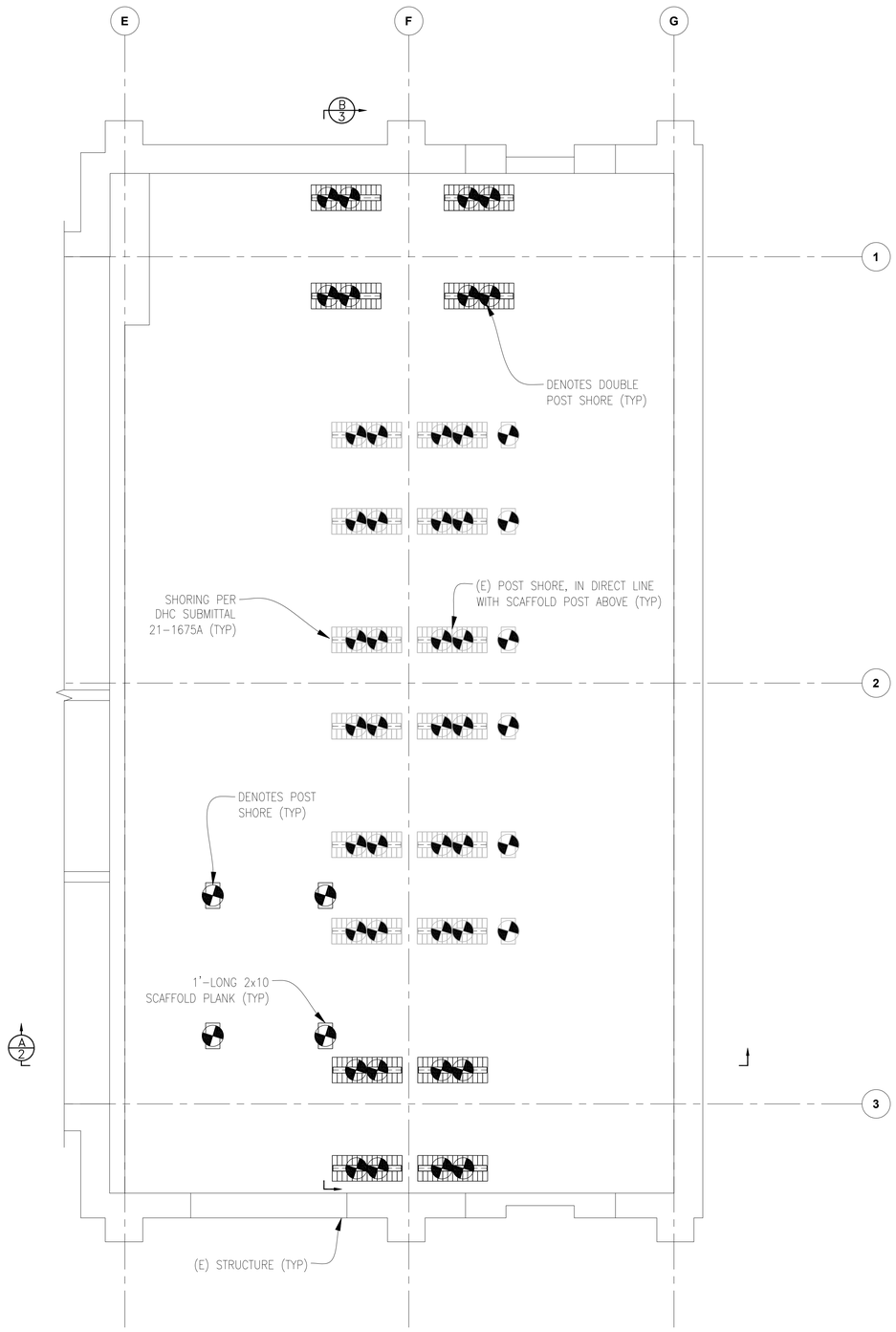
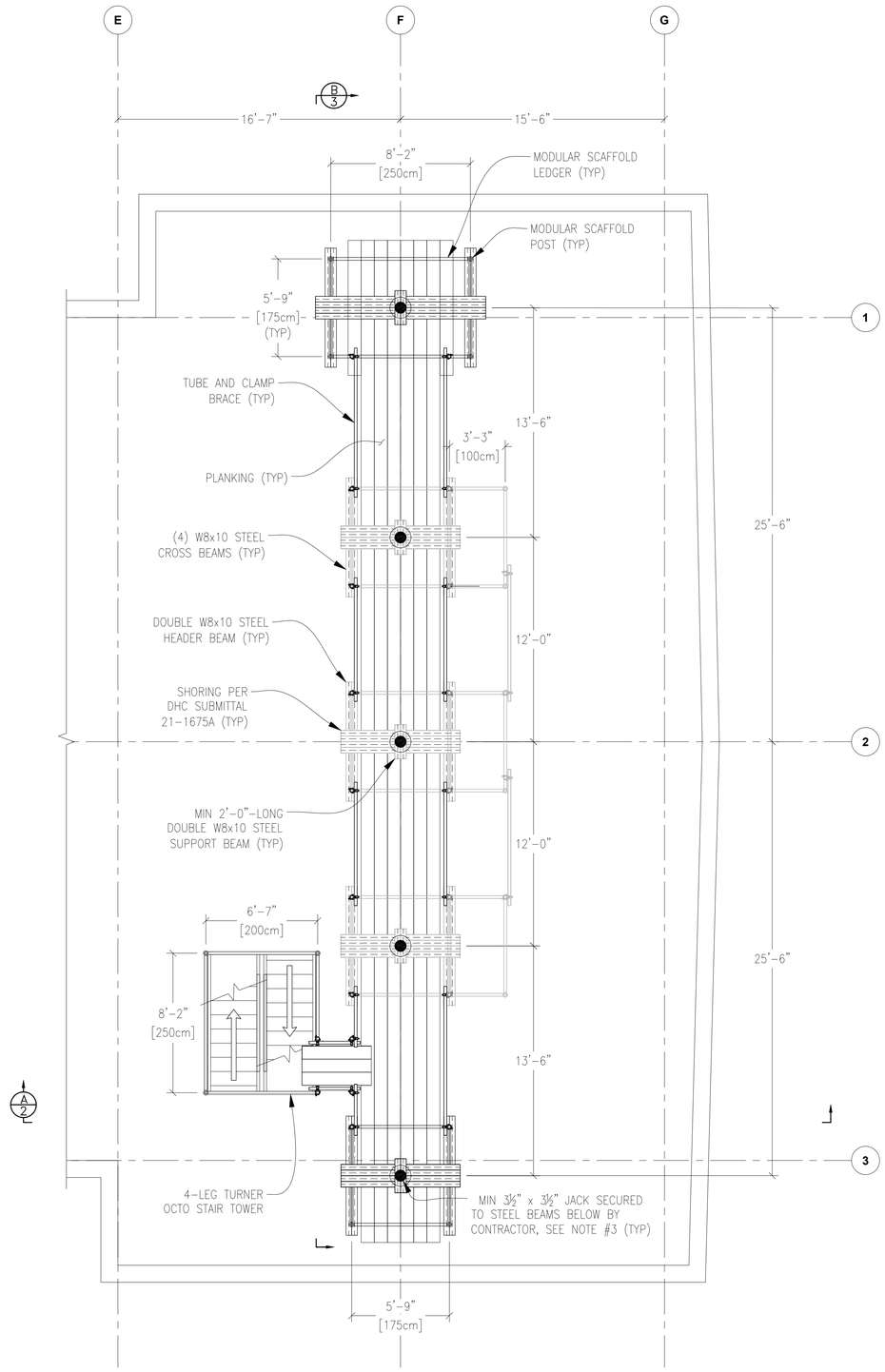


PLAN VIEW - BASEMENT
SCALE: 1/4"=1'-0"

N



PLAN VIEW - TRUSS SUPPORT
SCALE: 1/4"=1'-0"

N

REVISIONS	
NO.	DATE

24x36 SHEET
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SHORING DESIGN PLAN
MCCELVEY CENTER SHORING
YORK, SC
SCAFFOLDING SOLUTIONS, LLC

Scaffolding SOLUTIONS
5311 WEST W.T. HARRIS BLVD
CHARLOTTE, NC 28269
PHONE: (704) 749-3824 FAX: (704) 749-3825

D.H. CHARLES ENGINEERING, INC.
4706 Hoen Avenue
Santa Rosa, CA 95405
(707) 537-8282 www.charlesengineering.com

D.H. CHARLES ENGINEERING, INC. NO. 2335 CERTIFICATE OF AUTHORIZATION SOUTH CAROLINA

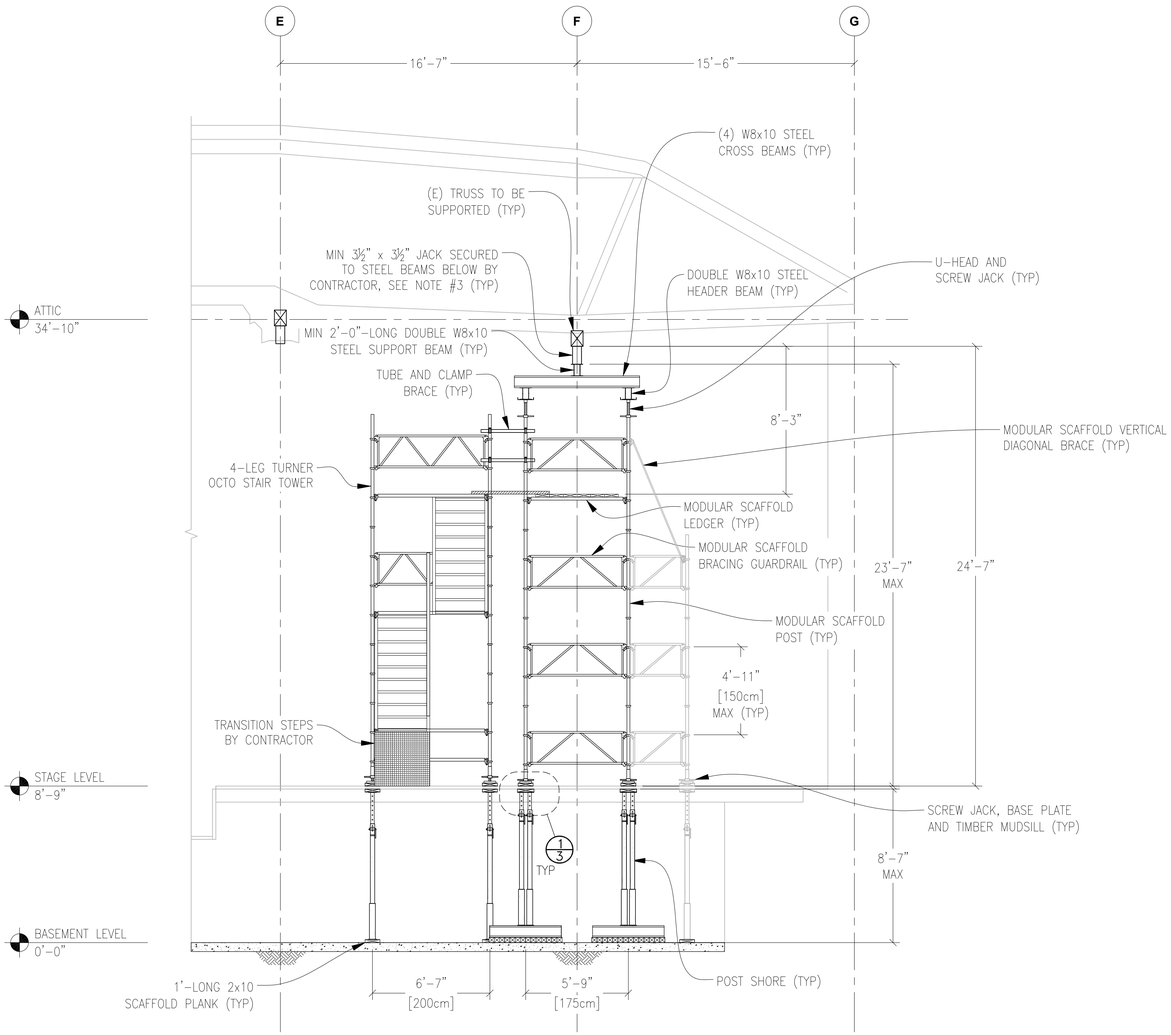
SOUTH CAROLINA PROFESSIONAL ENGINEER No. 39613 LUKE R. GRIFFIS 1/17/23

DATE:	12-19-22
DRAWN BY:	PNJ
CHECKED BY:	SDM
SHEET	1 OF 3
DRAWING NO.:	21-1675C
REV	0

NOTES:

1. THE (E) STRUCTURES ROOF AND ATTIC DEAD AND LIVE LOADS ARE AS FOLLOWS:
   - 1.1. ROOF LOADING
     - 1.1.1. LL = 20 PSF
     - 1.1.2. SHEATHING = 3 PSF
     - 1.1.3. FRAMING = 3 PSF
     - 1.1.4. SLATE = 10 PSF
   - 1.2. ATTIC LOADING
     - 1.2.1. LL = 25 PSF
     - 1.2.2. CEILING = 3 PSF
     - 1.2.3. FRAMING = 10 PSF
     - 1.2.4. MECHANICAL = 15 PSF
2. WIND PARAMETERS ARE PROVIDED BY IN PROJECT PLANS BY BENNETT PRESERVATION ENGINEERING, PC. ULTIMATE DESIGN WIND SPEED = 118 MPH, RISK CATEGORY III, EXPOSURE B. EXTERNAL COEFFICIENTS +0.8,−0.4,−0.7, INTERNAL COEFFICIENTS +/− 0.55, GUST: 0.85. IN DESIGN LOAD COMPARISON A MAXIMUM DOWNWARD WIND FORCE OF 30 PSF IS CONSERVATIVELY CONSIDERED TO BE SUPPORTED BY EXTERIOR SHORING TOWERS OUTLINED IN THIS PLAN. NOTE SHORING TO SUPPORT VERTICAL LOADS ONLY, SEE NOTE #15.
3. TEMPORARY SHORING HAS BEEN DESIGNED TO SUPPORT THE FOLLOWING LOADS:
   - 3.1. 17 KIP VERTICAL DOWNWARD LOAD AT EACH OF THE EXTERIOR SHORING TOWERS (LOCATED APPROXIMATELY ON GRIDS 1 AND 3, FOR THE STAGE TRUSS).

     DESIGN LOAD PROVIDED ON SHEET S301 OF THE PROJECT PLANS BY BENNETT PRESERVATION ENGINEERING, PC. DESIGN LOADS HAVE BEEN INDEPENDENTLY VERIFIED BY D.H. CHARLES ENGINEERING, INC.
4. ACCESS TO ATTIC SPACE AND ROOF IS RESTRICTED TO ALL EXCEPT THOSE APPROVED BY BENNETT PRESERVATION ENGINEERING, PC. SHORING IS TO BE INSTALLED AS A PRECAUTION. SHORING IS TO BE INSTALLED AT 1/2" BELOW THE EXISTING ROOF TRUSS, AND NOT TO ENGAGE THE ROOF TRUSS OR ANY PORTION OF THE CEILING UNLESS DIRECTED BY BENNETT PRESERVATION ENGINEERING, PC.
5. STEEL BEAMS TO BE ASTM A572 GR. 50 OR A992, MIN. Fy = 50 KSI, UNLESS OTHERWISE NOTED.
6. MODULAR SCAFFOLD COMPONENTS SHALL BE TURNER OCTO, OR APPROVED EQUAL, AND SHALL BE INSTALLED AND BRACED PER THE REQUIREMENTS OF THE MANUFACTURER.
7. POST SHORES TO HAVE A MINIMUM ALLOWABLE LOAD RATING OF 6,445 LBS, INCLUDING A 3 FACTOR OF SAFETY, AND SHALL BE INSTALLED AND BRACED PER THE REQUIREMENTS OF THE MANUFACTURER.
8. SHORING BEAMS TO BE CLAMPED TO U−HEADS AND TO EACH OTHER WITH A MINIMUM OF (2) C−CLAMPS AT EACH POINT OF INTERSECTION.
9. SCREW JACKS SHALL BE INSTALLED PER THE REQUIREMENTS OF THE MANUFACTURER.
10. SHORING SCAFFOLD SHALL BE SET ON AN EVEN AND LEVEL CONCRETE BEARING SURFACE CAPABLE OF SUPPORTING SHORING LOADS, OR PROVIDE BEARING PADS DESIGNED TO SPREAD SHORING LOAD OVER ADEQUATE BEARING AREA.
11. ENSURE ALL SCAFFOLD TOWERS AND BEAMS ARE INSTALLED LEVEL AND PLUMB AND IN DIRECT LINE WITH SCAFFOLD LEGS AND TOWERS ON FLOORS ABOVE AND/OR BELOW.
12. TAKE SPECIAL CARE WHEN OPERATING EQUIPMENT ADJACENT TO SHORING TOWERS, TO ENSURE THEY ARE NOT IMPACTED AT ANY TIME.
13. ENSURE ALL SCAFFOLD TOWERS MEET A MINIMUM 4:1 HEIGHT TO BASE RATIO OR INSTALL OUTRIGGER SCAFFOLD AS NECESSARY.
14. D.H. CHARLES ENGINEERING, INC. WILL NOT SUPERVISE, DIRECT, CONTROL OR HAVE AUTHORITY OVER OR BE RESPONSIBLE FOR CONTRACTOR'S MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION, OR THE SAFETY PRECAUTIONS AND PROGRAMS INCIDENT THERETO, OR FOR ANY FAILURE OF CONTRACTOR TO COMPLY WITH LAWS AND REGULATIONS APPLICABLE TO THE FURNISHING OR PERFORMANCE OF WORK.
15. SHORING SYSTEM DESIGNED TO TEMPORARILY SUPPORT VERTICAL LOADS ONLY, AND IS NOT INTENDED TO PROVIDE ANY LATERAL SUPPORT TO THE EXISTING BUILDING STRUCTURE.
16. ADEQUACY OF EXISTING STRUCTURE TO UNDERGO SHORING OPERATIONS, AND TO BE SUPPORTED AT LOCATIONS SHOWN HAS NOT BEEN VERIFIED BY D.H. CHARLES ENGINEERING. BUILDING ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF ALL EXISTING STRUCTURAL MEMBERS TO BE SUPPORTED AT THE LOCATIONS SHOWN, AND TO SUPPORT ANY LOADS IMPOSED UPON THEM BY SHORING OPERATIONS, PRIOR TO SYSTEM ERECTION.
17. VERIFY THAT REQUIRED CLEARANCES ARE OBTAINED PRIOR TO COMMENCEMENT OF THE WORK.
18. VERIFY THE ACCURACY OF ALL DIMENSIONS FOR BOTH EXISTING AND PROPOSED WORK.
19. ADEQUATELY PROTECT ALL EXISTING PIPES AND EQUIPMENT DURING SHORING AND DEMOLITION OPERATIONS.



A/2 *SECTION - STAGE TRUSS*
SCALE: 1/4"=1'−0"

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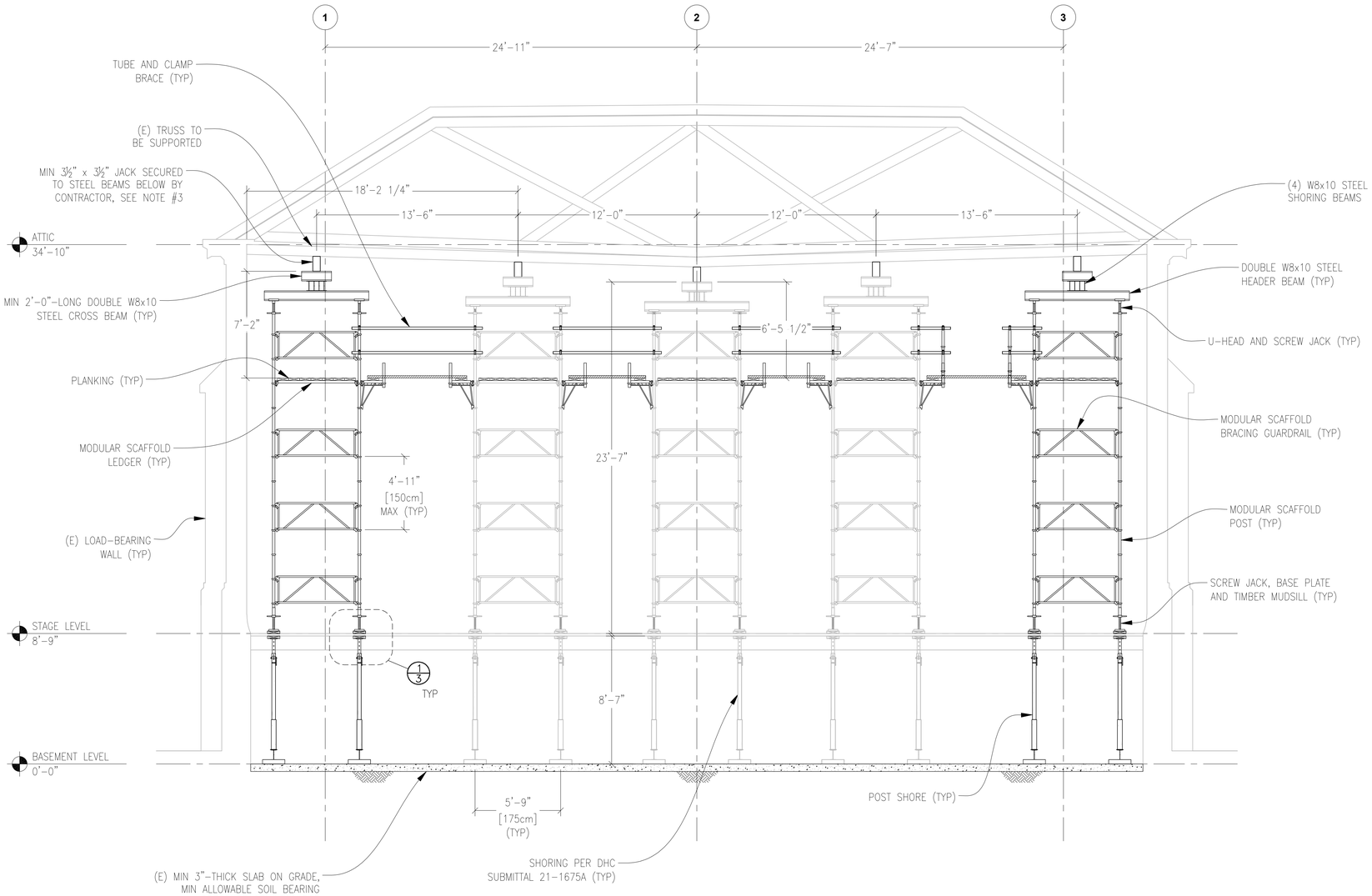
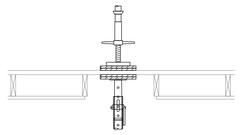
SHEET	2 OF 3
DRAWING NO.:	21−1675C REV 0

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION D.H. CHARLES ENGINEERING, INC. NO. 2335

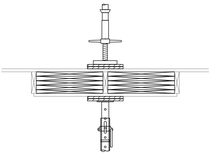
SOUTH CAROLINA PROFESSIONAL ENGINEER No. 39613 LUKE B. GRIFFIN 1/17/23



B/3 SECTION
SCALE: 1/4"=1'-0"



1/3 DETAIL - BETWEEN JOISTS
SCALE: 1/2"=1'-0"



1/3 DETAIL - AT JOISTS
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